

COMPILED FOR

SANTOS LIMITED
(A.B.N. 80 007 550 923)

JARVER 1

BASIC DATA REPORT

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JARVER 1

BASIC DATA REPORT

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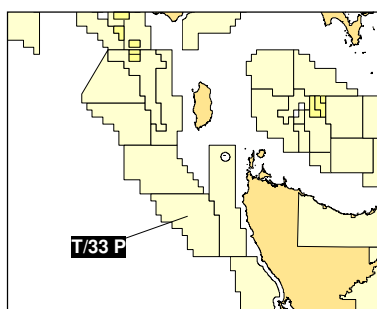
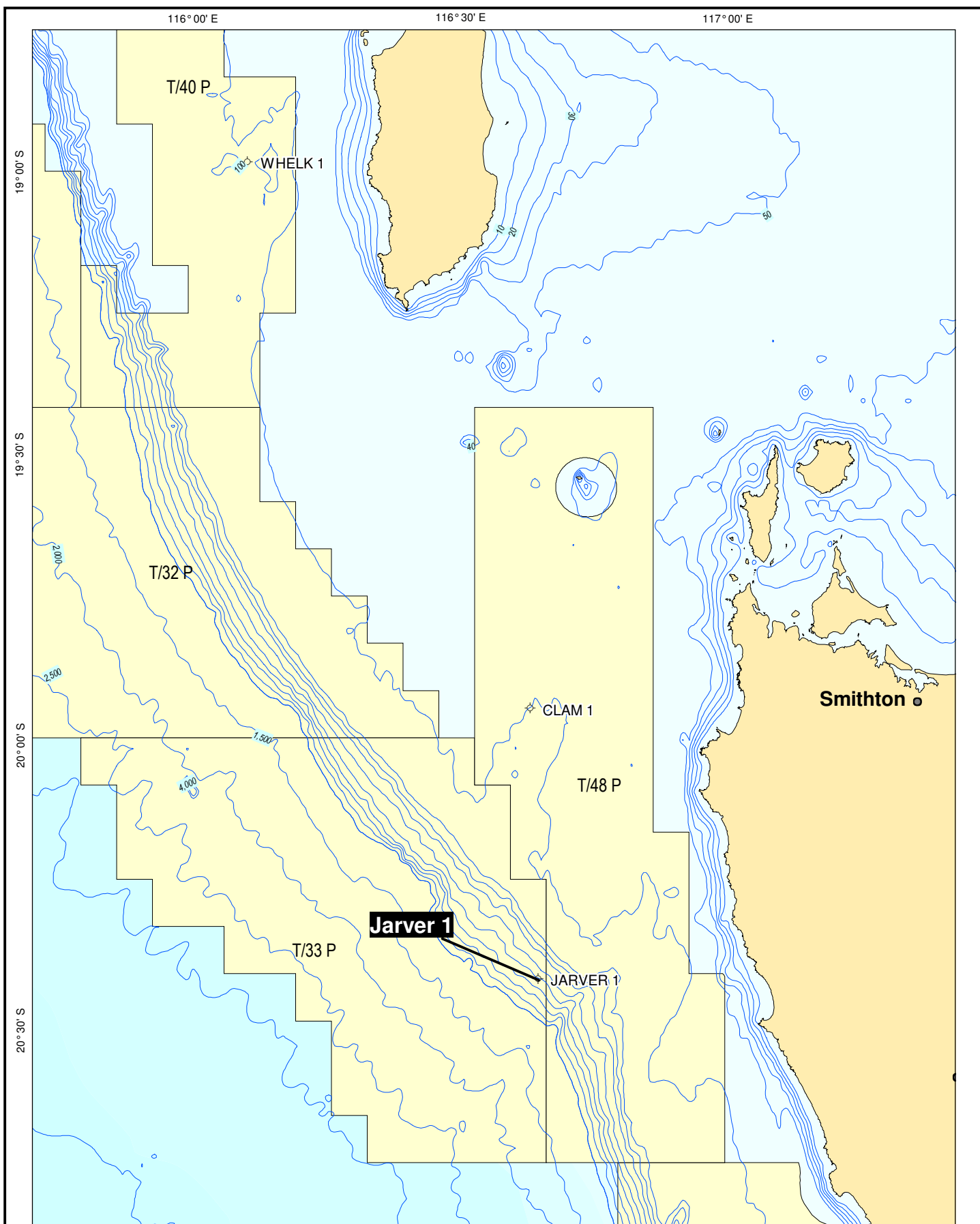
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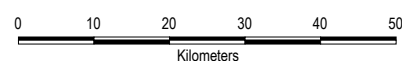


- Gas Pipeline
- Oil Pipeline
- Gas Field
- Oil Field
- Santos Production Permit
- Santos Exploration Permit

Santos

T/33 P - Tasmania

Jarver 1



Scale: 1:1,000,000

December 2008, File No. OTWAY 672



GENERAL DATA CARD

WELL: JARVER 1	WELL CATEGORY: Offshore Gas / Oil Exploration	SPUD: 05:30 16/05/08 TD REACHED: 07:30 04/06/08			
	WELL INTENT: Gas / Oil	RIG RELEASED: 09:00 18/06/08			
SURFACE LOCATION: LAT: 41° 20' 27.25" S LONG: 144° 14' 03.19" E (GDA94) NORTHING: 5 418 350.393 m EASTING: 770 615.074 m (MGA 54) SEISMIC STATION: DS01-142X, Trace 1280 ELEVATION SEA FLOOR: -576.85 m, RT: +20.85 m AHD RT-SEA FLOOR: 597.7 m BLOCK / LICENCE: Tasmania T/33P TD: 3062 m (Logger Extrap.) , 3062 m MD (Driller) PBTD: Well Plugged and Abandoned – Cement Plugs Set TYPE STRUCTURE: Anticlinal: 4 Way Dip Closure TYPE COMPLETION: Nil ZONE(S): Nil		RIG: Ocean Patriot			
		STATUS: Abandoned Dry Hole (ABDH)			
		REMARKS: The well was plugged and abandoned having intersected the prognosed geological section. Way point between Jarver 1 and Pecten East 1 reached at 09:00 hours on 18/06/2008.			
		HOLE SIZE	CASING SIZE	SHOE DEPTH	TYPE
		914 mm (36")	762 mm (30")	643 m	X52 461kg/m (310lb/ft) X52
660 mm (26")	508 mm (20")	1399 m	X56 198 kg/m (133 lb/ft)		
445 mm (17 ½")	340 mm (13 3/8")	1942 m	L80 101 kg/m (68 lb/ft)		

LOG (WIRELINE)	SUITE / RUN	INTERVAL (m)	COMMENTS
VSP (Checkshot)	1 / 1	3060 – 795	72.2°C (162°Fht) / 28.5 hours. Loss of signal at 795m.
CST-GR	1 / 2	Misrun	Sample examination indicates the sidewall cores fired simultaneously. 9 cores were recovered, 1 lost bullet and 20 misfires.

LOG (LWD)	SUITE / RUN	INTERVAL (m)	COMMENTS
ARC-MWD	1 / 1	1407 – 1947	445mm (17½") hole section. Final Circulating Temperature: 29deg C.
ARC5-MWD-SONIC-ADN	2 / 1	1942 – 3061.8	311mm (12¼") hole section.

SECTION 1 : WELL HISTORY

1.1 **INTRODUCTION**

Jarver 1 is located in permit T/33P, in the Sorell Basin, offshore western Tasmania. The Jarver Prospect is a moderate relief 4-way dip anticline. The primary target was the Thylacine Member-equivalent sandstones, with top seal provided by the Belfast Mudstone. The secondary target was the Paaratte Formation sandstones, with top seal provided by intra-formational shales

Executive Summary (Reproduced from the well program)

The Sorell Basin is considered to be a southern extension of the Otway Basin. The Jarver prospect tested a similar Late Cretaceous play to that which has been proven in the Shipwreck Trough region of the offshore Otway Basin.

The Jarver Prospect targeted a 4-way dip closure with Belfast Mudstone top seal and Thylacine Sandstone Member reservoir, charged from the Eumeralla Formation. This play has been proven in the Thylacine and Geographe Fields in the offshore Otway Basin.

The Thylacine Sandstone is located at the base of the Belfast Mudstone and is an amplitude-driven play. Regional mapping of this unit shows high amplitude low frequency anomalies at the Geographe and Thylacine gas fields in the Otway Basin, with a string of similar amplitude anomalies extending southwards through the Sorell Basin. These amplitude anomalies include the Aragorn Prospect in the Woodside-operated Permit T/34P, the Florey Prospect in T/35P, Wolseley and Savage Prospects in T/32P and Taylor and Jarver Prospects in T/33P. Jarver is the southern-most of these anomalies, and the largest of these prospects in shallow enough water to be drilled by the Ocean Patriot semi-submersible rig, which is contracted to Santos in 2008.

The Jarver Prospect is defined by an area of elevated amplitude anomalies, which roughly conform to a moderate relief 4-way dip anticline. Upside is given by potential stratigraphic trapping as sands pinch out onto the margins of a palaeo-high.

Distance from analogue fields and difficulty of correlation increases the risk on this prospect.

Success or failure of this prospect will impact the risk and uncertainty ranges of remaining prospects along this play trend in the Sorell Basin.

Regional Prospect Setting

The Sorell Basin formed during oblique rifting between the Australian and Antarctic continents in the Late Cretaceous. While relatively open ocean conditions existed to the north and west in the Otway Basin, a restricted marine embayment was formed in the Sorell region, bounded to the southeast by a land-bridge between the two continents, which did not separate until the Eocene.

Late Cretaceous reservoir sandstones, belonging to the Waarre Formation, Flaxman Formation and Thylacine Sandstone Member, form the main productive zones within fields such as Casino (Santos-operated), Minerva, La Bella, Thylacine and Geographe, located north of the deep water acreage trend. These sandstones exhibit excellent reservoir quality with average log porosity in the range of 15-28% and permeabilities of up to 8 Darcies.

These sandstones are mapped extending southwards into Santos' deepwater permits. Deposition of coarse-grained siliciclastics in the Turonian-Santonian is associated with periodic fluvio-deltaic pulses into an overall upwards-deepening/fining section (Belfast Mudstone), providing an effective reservoir-seal couplet. Regional regression in the Campanian led to renewed coarse-grained, fluvio-deltaic input to the basin as the Paaratte and Timboon sandstones. Potential sealing sequences of the Skull Creek and Timboon mudstones and the Massacre Shale are observed to thicken into the basin. Mild structural inversion in the latest Cretaceous was followed by rapid subsidence and transgression resulting in retrogradation of the deltaic systems and deposition of the Wangerrip Group in the Palaeogene. Eventually the marginal sedimentary systems were drowned and, in association with the opening of the seaway in the late Eocene and subsequent formation of the Circum-Antarctic current, deposition came to be dominated by cool-water carbonates that persist through to the present day.

Eight offshore discoveries have been made to date proving in excess of 1.7 TCF recoverable gas. These discoveries have been full to spill, with liquids content increasing generally from north to south. Hydrocarbon charge in the basin is considered to come from Albian-aged, Eumeralla Formation source rocks.

The Jarver Prospect is located in Permit T/33P, in the Sorell Basin, offshore western Tasmania.

The Sorell Basin is considered to be a southern extension of the Otway Basin. The Jarver prospect will test a similar Late Cretaceous play to that which has been proven in the offshore Otway Basin.

Drilling Opportunity Description

All gas discoveries in the Otway Basin to the north exhibit elevated full-stack seismic amplitudes which conform to structural closure and extent of hydrocarbon in place. The Jarver Prospect also exhibits elevated full-stack seismic amplitudes at the Thylacine level in an area which conforms roughly to anticlinal closure. This slightly reduces the charge risk on the prospect, although the distance from the nearest analogue field limits the level of confidence in seismic amplitudes.

Elevated amplitudes at Paaratte Fm level extend beyond the anticlinal closure to pinch out on the basement high to the north-west. If the anomalous amplitudes in the Paaratte Fm are also indicative of hydrocarbon in place, then a more complicated trapping mechanism must be invoked, involving a stratigraphic component.

Play – THYLACINE MEMBER

The Sorell Basin is an unproven basin. The base of the Belfast Mudstone can be mapped regionally, extending southwards from the Otway Basin into the Sorell Basin. The Thylacine Sandstone is located at the base of the Belfast Mudstone and is an amplitude-driven play. Regional mapping of this unit shows high amplitude low frequency anomalies at the Geographe and Thylacine gas fields in the Otway Basin, with a string of similar amplitude anomalies extending southwards through the Sorell Basin. These amplitude anomalies include the Aragorn Prospect in the Woodside-operated Permit T/34P, the Florey Prospect in T/35P, Wolseley and Savage Prospects in T/32P and Taylor and Jarver Prospects in T/33P. Jarver is the southern-most of these anomalies.

Closure

New seismic data acquired in 2006 confirmed the moderate-relief 4-way dip anticline at the Jarver Prospect. The key risk for closure is related to depth conversion of the structure.

Reservoir

The nearest wells, Clam 1, Whelk 1 and Cape Sorell 1, are sand-prone in the Late Cretaceous section. Confidence of sand presence is only reduced by the distance from wells and difficulty of correlation.

Seal

The Belfast Mudstone provides a top seal for this reservoir unit and can be correlated from the offshore Otway wells to the north. The closest well to the Jarver Prospect is Clam 1, which was in a separate sub-basin and highly sand-prone. The more distal location of the Jarver prospect is anticipated to result in a more shale prone section which should aid in forming competent reservoir seals. However, there is a risk that this unit may be silty or absent and hence fail to seal the trap. Minor crestal faulting identified on new data may be a seal risk. However, throw of faults appears to be substantially less than interpreted thickness of top seal.

Charge

The Sorell Basin is unproven as a petroleum system. The Eumeralla Formation is the proven source unit in the Otway Basin to the north. A thick band of elevated amplitude has been correlated from the Otway Basin, which is thought to relate to the coals within the Eumeralla Formation. However, due to the distance from wells and difficulty of correlation, this correlation is uncertain. Assuming that these events are Eumeralla Formation or another similar source interval, maturity modelling indicates that this should be within the current-day oil and gas window in the vicinity of the Jarver Prospect, with migration updip into the prospect. Elevated seismic amplitudes over the Jarver Prospect, which roughly conform to anticlinal closure, slightly reduces the charge risk for the prospect, by analogue with the discovered fields in the Otway Basin to the north.

1.2 GENERAL DATA

Well Name:	JARVER 1
Well Classification:	Gas Exploration
Interest Holders:	Santos Ltd 55%
	Mitsui E&P Australia 25%
	Inpex Alpha Ltd 20%
Operator:	Santos Ltd.
Location:	Sorell Basin / Offshore Tasmania
Surveyed Location:	Latitude: 41° 20' 27.25" South (GDA94) Longitude: 144° 14' 03.19" East Northing: 5 418 350.393 m (MGA54) Easting: 770 615.074 m
Seismic Location:	DS01-142X Trace 1280
Seismic Survey:	Various vintages, most recent 2006.
Elevations:	Water Depth: 576.85 m AHD Rotary Table: 20.85 m AHD
Total Depth:	Driller: 3062 m MDRT Logger: 3062 m RT
Status:	Abandoned Dry Hole (ABDH)
License:	T/33P, Offshore Tasmania
Date Drilling Commenced:	05:30 hours on 16 th May, 2008
Date Drilling Completed:	07:00 hours on 4 th June, 2008
Date Rig Released:	09:00 hours on 18 th June 2008 (Way point Jarver 1 / Pecten East 1)
Total Well Time:	36 days
Contractor:	Diamond Offshore
Rig:	Ocean Patriot (Semi-submersible)

1.3 **DRILLING SUMMARY**

(a) **Drilling Summary** (All Depths Driller's RT)

Jarver 1 was spudded on the 16th May, 2008 at 05:30 hours utilising the semi-submersible mobile offshore drilling unit (MODU) "Ocean Patriot". A 914mm (36") hole was drilled from seafloor at 597.7m MDRT to 645m MDRT. While drilling the section No.2 guide line became hung up on the drill string. Rotation was stopped and the guide line became free. The hole was back reamed to 605m and displaced to PHG mud. The 914mm (36") drilling assembly was pulled from the hole. Due to poor weather conditions the 762mm (30") casing was not immediately run. 127mm (5") drill pipe was picked up while waiting on weather. The 762mm (30") conductor was run with the Permanent Guide Base (PGB) stabbed in and landed out on the Temporary Guide Base (TGB). The casing was then circulated and cemented. The running tool was released and pulled out to surface.

The 660mm (26") bottom hole assembly was made up and run into the hole tagging cement at 642m. The cement and casing shoe were drilled to 645m. Drilling 660mm (26") hole continued from 645m sweeping the hole at connections with PHG and mid stand with guar gum to aid annular cleaning. The 660mm (26") hole section was drilled in one bit run to 1407m. The hole was swept with PHG and a KCl pill spotted on bottom. An Electronic Multi-Shot (EMS) survey tool was dropped. The string was pulled from the hole to 633m working tight spots at 1229m, 1110m, 1024m, 990m and 945m. Due to poor weather conditions and hence being unable to unload 508mm (20") casing from the work boats, drill pipe was picked up, running into the hole and making up stands of pipe to 1035m. Weather conditions curtailed allowing the unloading of the 508mm (20") casing while the drill string was pulled from the hole. The drill floor was rigged up to handle casing however the casing tong power pack was not unloaded from the work boat, sea conditions deteriorated and casing running was again delayed. Drill pipe stands were made up while waiting on weather. After sea conditions improved the power pack was unloaded from the work boat and the rig floor prepared to run casing.

65 joints of 508mm (20") 198 kg/m (133 lb/ft) X56 casing were run. The casing housing was made up and the casing was run into the hole on 127mm (5") drill pipe. The casing was worked through tight hole at 1310m and became stuck at 1390m. The casing was circulated and worked free. The 508mm (20") casing was landed with the shoe set at 1398m and circulated as per program. Lead: 98m³ (616 bbl) class "G" cement at 1.44sg (12.0ppg). Tail: 50m³ (310bbl) class "HTB" at 1.9sg (15.8ppg). The cement was displaced with seawater using the rig pumps. The plug was bumped and pressure held. The running tool was released and pulled from the hole.

The Blow Out Preventers (BOP) were moved to the moon pool and made up to the first riser joint. The Blow Out Preventer and marine riser were run and the BOP landed and latched. The connector and casing were pressure tested as per program. The slip joint was scoped out. The BOP was then pressure tested. Following BOP and rig floor preparation for drilling operations the aft compensator was repaired.

Bit 3, a 445mm (17½") Hughes Christensen MXL-T1V, was made up with the ARC-MWD tools and run into the hole tagging the top of cement at 1381m. The well was then circulated to a 1.07sg (8.9ppg) KCl glycol mud system. The cement plugs and shoe track were drilled from 1381m to 1385m while intermittently stopping to mix more mud. Penetration rate decreased. The bit was pulled from the hole. Inspection of the bit found damage from debris after drilling the float shoe.

The bit was changed out for Bit 4, another 445mm (17½") Hughes Christensen MXL-T1V. The bit was run into the hole drilling the remainder of the shoe track and the 508mm (20") casing shoe at 1399m. The rat hole was cleaned to 1407m and 3m of new hole drilled from 1407m to 1410m. The hole was circulated clean and a Leak-Off Test (LOT) conducted yielding an Equivalent Mud Weight (EMW) of 1.34sg (11.2 ppg). Drilling 445mm (17½") hole continued from 1410m to 1947m. The hole was circulated and samples examined for a suitable casing shoe. The hole was circulated clean and the drill string pulled from the hole. 112 joints of 340mm 913 3/8") 101 kg/m (68 lb/ft) L80 casing were run with the shoe set at 1942m. While running casing one person suffered a hand injury and required a medivac. Operations were stopped and the casing handling equipment repositioned. The casing was run and landed on 5" drill pipe, circulated and cemented. Lead: 49m³ (308bbls) class "G" at 1.5sg (12.5ppg) Tail: 18m³ (112 bbls) class "G" at 1.9sg (15.8ppg). The cement was displaced with the rig pumps but the plug was not bumped. Following casing and cementing operations the Blow Out Preventer was pressure tested.

Bit 5, a 311mm (12¼") Hughes Christensen HC506ZX PDC, was made up with a mud motor and the Quad Combo LWD/MWD tools and run in hole. The wiper plugs were tagged at 1913m. The shoe track and 3m of new formation were drilled to 1950m and the hole circulated clean. A Leak-Off Test (LOT) was conducted yielding an Equivalent Mud Weight (EMW) of 1.55 sg (12.9 ppg).

Drilling 311mm (12¼") continued from 1950m to total depth at 3061.8m (Driller). Total depth was reached at 07:00hrs on 4th June 2008. After reach total depth the hole was circulated clean and the drill string pulled out of the hole.

Suite 1 wireline logs were conducted at total depth by Schlumberger consisting of Run 1: VSP-GR (checkshot survey) and Run 2: CST-GR. 1 gun (30 shots) of sidewall cores were attempted. 9 cores were recovered with 1 lost bullet and 20 misfires. Examination of samples indicated a discrepancy in results and tests on the sidewall core gun indicated all 9 cores had been fired simultaneously.

Following wireline logs the well was plug and abandoned. Cement plugs were set as follows: Plug 1: 3060m – 2910m, Plug 1b: 2905m – 2755m, Plug 2: 1990-1840m, Plug 3: 700-630m. The 340mm (13 3/8") casing was cut at 613.5m and the casing hanger retrieved to surface. The Blow Out Preventer and Marine Riser were pulled to surface. The 508mm (20") casing was cut at 598.87m and the 508mm (20") wellhead retrieved to surface. The 762mm (30") casing was cut at 598.3m, 1.3m below the seabed. The 30" housing and Permanent Guide Base were retrieved to surface. The rig then conducted maintenance while waiting on weather to pull anchors. On the 14th of June 2008 the boats were called and anchor retrieval operations began. The last anchor was pulled and the rig was under tow to Portland. The rig was on tow to Portland at 20:30 hours on 15th June 2008. Way point for the tow Jarver 1 / Pecten East 1 was reached at 09:00 hours on 18th June 2008.

(b) Mudlogging Services

Mudlogging services were provided by Baker Inteq Unit 573 (Advantage Logging System) with the following parameters monitored:

1. Total Gas
2. Chromatographic Gas Breakdown (fast chromatograph: C1-C5 in 2 minutes)
3. Hydrogen Sulphide Levels
4. Depth/Rate of Penetration.
5. Pipe Speed/Block Position
6. Top drive RPM
7. Top drive Torque
8. Hook Load/Weight On Bit
9. Standpipe Pressure
10. Casing Shut-in Pressure
11. Mud Pump Rate (3 pumps)
12. Mud Flow Out
13. Mud Pit Levels (8 pits including the trip tank)
14. Mud Weight In and Out
15. Mud Temperature In and Out
16. CO₂ detection

Ditch cuttings were collected at 10m intervals in the 445mm (17½") hole section from 1407m to 1947m. In the 311mm (12¼") hole section samples were caught at 6m intervals dependent upon the rate of penetration from 1947m to total depth at 3061.8m. In addition to microscopic examination of all drilled cuttings, samples were examined under the fluoroscope for hydrocarbon indications. Additional information pertinent to Mudlogging is presented in the Baker Hughes Inteq report, Section 11: MUDLOGGING WELL REPORT. Details of all wellsite samples is found in Section 2.4: CATALOGUE OF WELLSITE SAMPLES.

(c) LWD Data

Logging While Drilling (LWD) was acquired by Anadrill. LWD services consisted of Gamma Ray, Resistivity and Directional in the 445mm (17½") hole section. In the 311mm (12¼") hole section LWD services consisted of Gamma ray, resistivity, Directional, Sonic, Porosity and Density. Anadrill's detailed report is attached in Section 3.4: LWD END OF WELL REPORT

TABLE 1

LOG (LWD)	SUITE / RUN	INTERVAL (m)	COMMENTS
ARC-MWD	1 / 1	1407 – 1947	445mm (17½") hole section. Final Circulating Temperature: 29°C.
ARC5-MWD-SONIC-ADN	2 / 1	1947 – 3061.8	311mm (12¼") hole section.

(d) Testing

No production tests were conducted at the Jarver 1 location.

(e) Coring

No full hole cores were taken at the Jarver 1 location. Conventional sidewall cores were taken during Suite 1 wireline logs at total depth. Examination of core samples and tests on the sidewall core tool indicated all cores recovered were fired simultaneously. Refer to SECTION 2.2 of this report for core descriptions.

(f) Biostratigraphy

Samples were forwarded while drilling and at the completion of the well for analysis. Results can be found in Section 15: PRELIMINARY PALYNOLOGY REPORT

(g) Electric Logging

Electric Logging Services were provided by Schlumberger. One suite of electric logs were conducted at total depth as follows:

TABLE 2

LOG (Wireline)	SUITE / RUN	INTERVAL (m)	COMMENTS
VSP (Checkshot)	1 / 1	3060 – 795m	72.2°C (162°Fht)/ 28.5 hours. Loss of signal at 795m.
CST - GR	1 / 2	Misrun	Sample examination indicates the sidewall cores fired simultaneously. 9 cores were recovered, 1 lost bullet and 20 misfires.

(h) MDT Pressure Data

A pressure survey was not conducted at the Jarver 1 location.

(i) Hole Deviation

Jarver 1 was drilled as a vertical well. An electronic multi-shot (EMS) survey was taken after drilling the 660mm (26") hole section. Deviation surveys were taken while drilling the 445mm (17½") and 311mm (12¼") hole sections using the MWD/LWD tools. Survey data are presented in Section 14: DEVIATION SUMMARY.

(j) Velocity Surveys

A VSP checkshot survey was conducted during Suite 1 wireline logs at total depth over 37 stations with 4 levels per station from 3060m to loss of signal at 795m.

(k) Casing & Cementing Summary

The following Table 2 summarises casing sizes, depths and cementing details for Jarver 1. Casing and Cementing Reports for each casing run are detailed in Section 10: CASING & CEMENTING SUMMARY.

TABLE 3

HOLE SIZE	DEPTH	CASING SIZE	CASING DEPTH	JOINTS	CASING TYPE	CEMENT
914 mm (36")	645 m	762 mm (30")	643 mm	4	461kg/m (310lb/ft) X52	Mixed and pumped 31.8m ³ (202bbl) of cement at 1.9sg (15.8ppg) and displaced with seawater.
660 mm (26")	1407 m	508 mm (20")	1398 m	65	198kg/m (133lb/ft) X56, DW-2	<u>Lead</u> : 98m ³ (616bbls) class "G" at 1.44sg (12.0ppg). <u>Tail</u> : 50m ³ (310bbls) class "HTB" at 1.9sg (15.8ppg). Displaced with seawater using the rig pumps. The plug was bumped and pressure held.
445 mm (17½")	1947 m	340 mm (13 3/8")	1941.1 m	112	101 kg/m (68 lb/ft) L80	<u>Lead</u> : 49m ³ (308bbls) class "G" at 1.5sg (12.5ppg) <u>Tail</u> : 18m ³ (112 bbls) class "G" at 1.9sg (15.8ppg). The cement was displaced with the rig pumps but the plug was not bumped.

SECTION 2 : LITHOLOGICAL DESCRIPTIONS

SECTION 2.1: CUTTINGS DESCRIPTIONS

2.1 JARVER 1 - LITHOLOGICAL DESCRIPTIONS

(Depths are referenced to Drillers Depth)

Depth From (m)	Depth To (m)	%	Lithology and Shows
JARVER 1 was spudded on 16th May 2008 utilising the semi submersible drilling facility "Ocean Patriot". Note: all returns were to the seafloor prior to running the 508mm (20") casing, blow out preventer and marine riser at 1407m.			
1407	1410	100	<u>SANDSTONE</u> : clear, translucent, common orange Fe stain, fine to medium grained, trace coarse grained, moderately sorted, sub angular to sub rounded, trace light grey silty matrix, minor mica flakes, rare orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence.
1410	1420	100	<u>SANDSTONE</u> : as above. Not clay / siltstone content washes from the sample at the shale shakers.
1420	1430	100	<u>SANDSTONE</u> : as above, predominately medium grained, trace coarse.
1430	1440	90 10	<u>SANDSTONE</u> : clear, translucent, white, common orange / yellow Fe stain, medium to coarse grained, moderately sorted, sub angular to sub rounded, trace rounded, trace light grey silty matrix, minor mica flecks, common orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence. <u>SILTSTONE</u> : light to medium grey, medium brownish grey, very finely arenaceous, trace mica flecks, firm, blocky.
1440	1450	90 10	<u>SANDSTONE</u> : clear, translucent, white, common orange / yellow Fe stain, medium to coarse grained, moderately sorted, sub angular to sub rounded, trace rounded, trace light grey silty matrix, minor mica flecks, common orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence. <u>SILTSTONE</u> : light to medium grey, medium brownish grey, very finely arenaceous, trace mica flecks, firm, blocky.
1450	1460	90 10	<u>SANDSTONE</u> : clear, translucent, white, light brown, minor orange / yellow Fe stain, fine to coarse grained, poor sorting, sub angular to sub rounded, minor light grey silty matrix, minor mica flecks, rare orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence. <u>SILTSTONE</u> : light to medium brownish grey, medium brown, very finely arenaceous, rare mica flecks, firm, blocky.
1460	1470	100	<u>SANDSTONE</u> : translucent, clear, white, common orange / yellow Fe stain, fine to coarse grained, poor sorting, sub angular to sub rounded, trace rounded, trace light grey silty matrix, common mica flakes, rare orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence.
1470	1480	100	<u>SANDSTONE</u> : translucent, clear, white, common orange / yellow Fe stain, fine to coarse grained, poor sorting, sub angular to sub rounded, trace rounded, trace light grey silty matrix, common mica flakes, rare orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence.

1480	1490	100	<u>SANDSTONE</u> : translucent, clear, white, common orange / yellow Fe stain, fine to coarse grained, poor sorting, sub angular to sub rounded, trace rounded, trace light grey silty matrix, common mica flakes, rare orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence.
1490	1500	100	<u>SANDSTONE</u> : translucent, clear, white, common orange / yellow Fe stain, fine to coarse grained, poor sorting, sub angular to sub rounded, trace rounded, trace light grey silty matrix, common mica flakes, rare orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence.
1500	1510	100	<u>SANDSTONE</u> : clear, translucent, white, common orange Fe stain, f-m grains, traces coarse grains, poor sorting, sub angular to sub rounded light grey silty, traces mica flaks rare orange & light green predominantly loose quartz grains, good inferred porosity, no fluorescence.
1510	1520	100	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, traces of calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence.
1520	1530	100	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, rare traces of calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence.
1530	1540	100	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence.
1540	1550	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, soft, sticky, washable in places.
1550	1560	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of Mica, traces of Pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1560	1570	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1570	1580	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.

1580	1590	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1590	1600	100	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence.
1600	1610	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1610	1620	80 20	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1620	1630	80 20	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1630	1640	80 20	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1640	1650	80 20	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, fine- medium grain, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1650	1660	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, very fine- fine, medium grain in places, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1660	1670	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, very fine- fine, medium grain in places, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.

1670	1680	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, very fine- fine, medium grain in places, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.
1680	1690	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, very fine- fine, medium grain in places, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.
1690	1700	60 40	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, very fine to coarse grains, sub angular to sub rounded, poorly sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.
1700	1710	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, very fine- fine, medium grain in places, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.
1710	1720	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, very fine- fine, medium grain in places, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.
1720	1730	90 10	<u>SANDSTONE</u> : clear, translucent, white in part, very fine to coarse grained, sub angular to sub rounded, poor sorting, predominately loose quartz grains, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, argillaceous, amorphous to soft, sticky, washable in places.
1730	1740	90 10	<u>SANDSTONE</u> : clear, translucent, white in part, very fine to coarse grained, sub angular to sub rounded, poor sorting, predominately loose quartz grains, trace mica flakes, trace nodular pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : medium to dark grey, arenaceous, amorphous to soft, sticky, washes from samples.
1740	1750	90 10	<u>SANDSTONE</u> : clear, transparent- translucent, milky white, smoky in places, very fine- fine, medium grain in places, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.

1750	1760	90 10	<u>SANDSTONE</u>: clear, transparent- translucent, milky white, smoky in places, very fine- fine, medium grain in places, traces of coarse grains, sub angular to sub rounded, poor to moderately sorted, traces of loose quartz grains, non calcareous cement, traces of mica, traces of pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u>: dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.
1760	1770	40 60	<u>SANDSTONE</u>: clear, translucent, minor yellow Fe stain, very fine to medium grained, trace coarse, sub angular to sub rounded, poor sorting, common clay / silty matrix which washes from the sample, trace off white lithics, predominately loose quartz grains, poor inferred porosity due to washed out clay content, no fluorescence. <u>CLAYSTONE</u>: medium to dark grey, medium to dark brownish grey, very finely arenaceous, soft, dispersive, washed from sample.
1770	1780	60 40	<u>SANDSTONE</u>: clear, translucent, minor yellow Fe stain, very fine to medium grained, trace coarse, sub angular to sub rounded, poor sorting, common clay / silty matrix which washes from the sample, trace off white lithics, predominately loose quartz grains, poor inferred porosity due to washed out clay content, no fluorescence. <u>CLAYSTONE</u>: medium to dark grey, medium to dark brownish grey, very finely arenaceous, soft, dispersive, washed from sample.
1780	1790	20 80	<u>SANDSTONE</u>: clear, translucent, minor yellow Fe stain, very fine to medium grained, trace coarse, sub angular to sub rounded, poor sorting, common clay / silty matrix which washes from the sample, trace off white lithics, predominately loose quartz grains, poor inferred porosity due to washed out clay content, no fluorescence. <u>CLAYSTONE</u>: medium to dark grey, medium to dark brownish grey, very finely arenaceous, soft, dispersive, washed from sample.
1790	1800	10 90	<u>SANDSTONE</u>: clear, translucent, very fine to occasionally medium grained, trace coarse, sub angular to sub rounded, poor to fair sorting, common clay / silty matrix which washes from the sample, trace nodular pyrite, trace off white lithics, poor inferred porosity due to washed out clay content, no fluorescence. <u>CLAYSTONE</u>: medium to dark grey, medium to occasionally dark brownish grey, very finely arenaceous, soft, dispersive, washed from sample.
1800	1810	20 80	<u>SANDSTONE</u>: clear, translucent, very fine to occasionally medium grained, trace coarse, sub angular to sub rounded, poor to fair sorting, common clay / silty matrix which washes from the sample, trace nodular pyrite, trace off white lithics, poor inferred porosity due to washed out clay content, no fluorescence. <u>CLAYSTONE</u>: medium to dark grey, medium to occasionally dark brownish grey, very finely arenaceous, soft, dispersive, washed from sample.
1810	1820	20 80	<u>SANDSTONE</u>: clear, translucent, very fine to occasionally medium grained, sub angular to predominately sub rounded, poor to fair sorting, common clay / silty matrix which washes from the sample, trace nodular pyrite, trace off white lithics, poor inferred porosity due to washed out clay content, no fluorescence. <u>CLAYSTONE</u>: medium to dark grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, soft, dispersive, washed from sample.
1820	1830	20 80	<u>SANDSTONE</u>: clear, translucent, very fine to medium grained, sub angular to predominately sub rounded, fair sorting, common clay / silty matrix which washes from the sample, trace off white lithics, poor inferred porosity due to washed out clay content, no fluorescence. <u>CLAYSTONE</u>: medium to dark grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, soft, dispersive, washed from sample.

1830	1840	100	<u>CLAYSTONE</u> ; medium grey, medium to dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular pyrite, trace mica, trace orange lithics, soft / dispersive with clay content easily washing from the sample.
1840	1850	100	<u>CLAYSTONE</u> ; medium grey, medium to dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular pyrite, trace mica, trace orange lithics, soft / dispersive with clay content easily washing from the sample.
1850	1860	100	<u>CLAYSTONE</u> : medium grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
1860	1870	10 90	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous loc grading to silty CLAYSTONE, trace fine carbonaceous specks, trace micro mica, soft, dispersive to sub blocky. <u>CLAYSTONE</u> : as above, medium grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
1870	1880	10 90	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous loc grading to silty CLAYSTONE, trace fine carbonaceous specks, trace micro mica, soft, dispersive to sub blocky. <u>CLAYSTONE</u> : as above, medium grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
1880	1890	10 10 80	<u>SANDSTONE</u> : clear, translucent, medium to occasionally coarse grained, moderately well sorted, sub angular to predominately sub rounded, predominately loose quartz grains, trace silty matrix, fair inferred porosity, no fluorescence. <u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous loc grading to silty CLAYSTONE, trace fine carbonaceous specks, trace micro mica, soft, dispersive to sub blocky. <u>CLAYSTONE</u> : as above, medium grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
1890	1900	30 10 60	<u>SANDSTONE</u> : clear, translucent, medium to occasionally coarse grained, moderately well sorted, sub angular to predominately sub rounded, predominately loose quartz grains, trace silty matrix, fair inferred porosity, no fluorescence. <u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous loc grading to silty CLAYSTONE, trace fine carbonaceous specks, trace micro mica, soft, dispersive to sub blocky. <u>CLAYSTONE</u> : as above, medium grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.

1900	1910	30	<u>SANDSTONE</u> : clear, translucent, medium to occasionally coarse grained, moderately well sorted, sub angular to predominately sub rounded, predominately loose quartz grains, trace silty matrix, fair inferred porosity, no fluorescence.
		20	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous loc grading to silty CLAYSTONE, trace fine carbonaceous specks, trace micro mica, soft, dispersive to sub blocky.
		50	<u>CLAYSTONE</u> : as above, medium grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
1910	1920	30	<u>SANDSTONE</u> : light grey, clear, translucent, fine to medium, trace coarse grained, fair sorting, sub angular to predominately sub rounded, minor to common light grey silty matrix in fine grained aggregates, medium to coarse grains are predominately loose, rare nodular pyrite, trace fine grained orange lithics, trace chert ?, poor visual and inferred porosity, no fluorescence.
		30	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
		40	<u>CLAYSTONE</u> : medium grey, medium brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
1920	1930	30	<u>SANDSTONE</u> : as above.
		10	<u>SILTSTONE</u> : as above.
		60	<u>CLAYSTONE</u> : as above.
1930	1940	10	<u>SANDSTONE</u> : as above.
		30	<u>SILTSTONE</u> : as above.
		60	<u>CLAYSTONE</u> : as above.
1940	1947	10	<u>SANDSTONE</u> : as above.
		30	<u>SILTSTONE</u> : as above.
		60	<u>CLAYSTONE</u> : as above.
			1947m 445m (17 ½") hole section TD. Note: During the drilling of the 445mm (17½") hole section a large percentage of the clay component of samples washed out during preparation. Attempts were made to under-wash samples to save the clay component. The mudlog was also interpreted with the aid of the LWD logs. 340mm (13 3/8") casing set at 1941m.
1947	1950	80	Cement
		20	<u>CLAYSTONE</u> : arenaceous, medium dark grey, very finely arenaceous with common very fine quartz grains, trace carbonaceous flecks, soft, dispersive. LOT: 1.54 sg (12.9PPG)
1950	1956	100	<u>SILTSTONE</u> : medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine grained lithics, soft to friable, dispersive to blocky.
1956	1962	100	<u>SILTSTONE</u> : medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine grained lithics, soft to friable, dispersive to blocky.

1962	1968	100	<u>SILTSTONE</u> : as above, very finely arenaceous, washed samples resemble very fine SANDSTONE however clay content is easily washed from samples.
1968	1974	100	<u>SILTSTONE</u> : as above.
1974	1980	100	<u>SILTSTONE</u> : as above.
1980	1986	10 90	<u>SANDSTONE</u> : white, off white to very light grey, very fine to fine grained, sub angular to sub rounded, well sorted, common white – very light grey argillaceous matrix, trace very fine lithics, trace carbonaceous flecks and thin laminae, soft to firm, very poor visual porosity, no fluorescence. <u>SILTSTONE</u> : as above.
1986	1992	100	<u>SILTSTONE</u> : medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine orange lithics, trace calcareous fragments, soft to friable, dispersive to blocky.
1992	1998	100	<u>SILTSTONE</u> : medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine orange lithics, trace calcareous fragments, soft to friable, dispersive to blocky.
1998	2004	100	<u>SILTSTONE</u> : trace loose medium quartz grains.
2004	2010	100	<u>SILTSTONE</u> : trace loose medium quartz grains.
2010	2016	100	<u>SILTSTONE</u> : medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine orange lithics, trace calcareous fragments, minor loose medium quartz grains, soft to friable, dispersive to blocky.
2016	2022	100	<u>SILTSTONE</u> : medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine orange lithics, trace calcareous fragments, minor loose medium quartz grains, soft to friable, dispersive to blocky.
2022	2028	100	<u>SILTSTONE</u> : medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine orange lithics, trace calcareous fragments, minor loose medium quartz grains, soft to friable, dispersive to blocky.
2028	2034	10 90	<u>SANDSTONE</u> : clear, translucent, fine to medium grained, sub angular to sub rounded, moderately well sorted, minor light brownish grey silty matrix, predominately loose clean quartz grains, poor inferred porosity, no fluorescence. <u>SILTSTONE</u> : as above, clay content easily washes from samples.
2034	2040	10 90	<u>SANDSTONE</u> : clear, translucent, fine to medium grained, sub angular to sub rounded, moderately well sorted, minor light brownish grey silty matrix, predominately loose clean quartz grains, poor inferred porosity, no fluorescence. <u>SILTSTONE</u> : as above, clay content easily washes from samples.
2040	2046	100	<u>SILTSTONE</u> : medium brownish grey, medium grey, mottled, argillaceous, minor fine carbonaceous flecks, rare micro mica, trace calcareous fragments, trace loose medium quartz grains, soft to firm, blocky, dispersive in part.
2046	2052	100	<u>SILTSTONE</u> : medium brownish grey, medium grey, mottled, argillaceous, minor fine carbonaceous flecks, rare micro mica, trace calcareous fragments, trace loose medium quartz grains, soft to firm, blocky, dispersive in part.

2052	2058	10 90	<u>SANDSTONE</u> : fine to medium loose quartz grains as above. <u>SILTSTONE</u> : as above.
2058	2064	10 90	<u>SANDSTONE</u> : fine to medium loose quartz grains as above. <u>SILTSTONE</u> : as above.
2064	2070	100	<u>SILTSTONE</u> : medium brownish grey, medium grey, mottled, argillaceous, minor fine carbonaceous flecks, rare micro mica, trace calcareous fragments, trace loose medium quartz grains, soft to firm, blocky, dispersive in part.
2070	2076	10 90	<u>SANDSTONE</u> : fine to medium loose quartz grains. <u>SILTSTONE</u> : medium brownish grey, argillaceous in part, as above.
2076	2082	10 90	<u>SANDSTONE</u> : fine to medium loose quartz grains. <u>SILTSTONE</u> : medium brownish grey, argillaceous in part, as above.
2082	2088	10 90	<u>SANDSTONE</u> : fine to medium loose quartz grains. <u>SILTSTONE</u> : medium brownish grey, argillaceous in part, as above.
2088	2094	20 80	<u>SANDSTONE</u> : clear, translucent, occasionally with yellow Fe stain, very fine to medium grained, sub angular to sub rounded, poor to fair sorting, minor light brownish grey silty matrix, predominately quartz grains, poor inferred porosity, no fluorescence. <u>SILTSTONE</u> : medium brownish grey, medium grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous flecks, trace micro mica, trace calcareous fragments, trace nodular pyrite, soft to firm, blocky, dispersive in part.
2094	2100	10 90	<u>SANDSTONE</u> : clear, translucent, occasionally with yellow Fe stain, very fine to medium grained, sub angular to sub rounded, poor to fair sorting, minor light brownish grey silty matrix, predominately quartz grains, poor inferred porosity, no fluorescence. <u>SILTSTONE</u> : medium brownish grey, medium grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous flecks, trace micro mica, trace calcareous fragments, trace nodular pyrite, soft to firm, blocky, dispersive in part.
2100	2106	10 90	<u>SANDSTONE</u> : clear, translucent, occasionally with yellow Fe stain, very fine to medium grained, sub angular to sub rounded, poor to fair sorting, minor light brownish grey silty matrix, predominately quartz grains, poor inferred porosity, no fluorescence. <u>SILTSTONE</u> : medium brownish grey, medium grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous flecks, trace micro mica, trace calcareous fragments, trace nodular pyrite, soft to firm, blocky, dispersive in part.
2106	2112	90 10	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky. <u>SANDSTONE</u> : clear translucent fine to medium, sub angular to sub rounded moderately well sorted minor light brownish grey silty matrix predominantly loose clean quartz grains poor inferred porosity no fluorescence.
2112	2118	90 10	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky. <u>SANDSTONE</u> : clear translucent fine to medium, sub angular to sub rounded moderately well sorted minor light brownish grey silty matrix predominantly loose clean quartz grains poor inferred porosity no fluorescence.

2118	2124	90 10	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky. <u>SANDSTONE</u> : clear translucent fine to medium, sub angular to sub rounded moderately well sorted minor light brownish grey silty matrix predominantly loose clean quartz grains poor inferred porosity no fluorescence.
2124	2130	90 10	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky. <u>SANDSTONE</u> : clear translucent fine to medium, sub angular to sub rounded moderately well sorted minor light brownish grey silty matrix predominantly loose clean quartz grains poor inferred porosity no fluorescence.
2130	2136	90 10	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky. <u>SANDSTONE</u> : clear translucent fine to medium, sub angular to sub rounded moderately well sorted minor light brownish grey silty matrix predominantly loose clean quartz grains poor inferred porosity no fluorescence.
2136	2142	90 10	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky. <u>SANDSTONE</u> : clear translucent fine to medium, sub angular to sub rounded moderately well sorted minor light brownish grey silty matrix predominantly loose clean quartz grains poor inferred porosity no fluorescence.
2142	2148	100	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
2148	2154	100	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
2154	2160	100	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
2160	2166	100	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
2166	2172	100	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
2172	2178	100	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.

2178	2184	90	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
		10	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
2184	2190	90	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
		10	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
2190	2196	90	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.
		10	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
2196	2202	40	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		60	<u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky
2202	2208	40	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		60	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
2208	2214	40	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		60	<u>SILTSTONE</u> : light grey to medium grey, off white to very light grey, very finely arenaceous, trace calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
2214	2220	60	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		40	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.

2220	2226	30	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		70	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
2226	2232	20	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		80	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
2232	2238	20	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		80	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
2238	2244	20	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		80	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
2244	2250	10	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		90	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
2250	2256	50	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		50	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.
2256	2262	50	<u>SANDSTONE</u> : clear, translucent, opaque, off white in part, very fine to fine, sub angular to sub rounded, well sorted, silty matrix, traces carbonaceous specks, predominantly loose clean quartz grains poor inferred porosity no fluorescence.
		50	<u>SILTSTONE</u> : light to medium grey, very finely arenaceous, occasionally calcareous, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.

2262	2268	80	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, soft to firm, dispersive to blocky.
		20	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.
2268	2274	80	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky.
		20	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.
2274	2280	40	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky.
		60	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.
2280	2286	60	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky.
		40	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.
2286	2292	40	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky.
		60	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.
2292	2298	30	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky.
		70	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.
2298	2304	40	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky. Note clay content washes from samples.
		60	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.

2304	2310	30	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky. Note clay content washes from samples.
		70	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.
2310	2316	40	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky. Note clay content washes from samples.
		60	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix, trace fine carbonaceous specks, trace lithics, soft to friable, poor visual porosity, no fluorescence.
2316	2322	60	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, grading to silty CLAYSTONE, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky. Note clay content washes from samples.
		40	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix (rock flour?), trace fine carbonaceous specks, trace fine lithics, soft to friable, poor visual porosity, no fluorescence.
2322	2328	40	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, grading to silty CLAYSTONE, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky. Note clay content washes from samples. Samples at shale shakers are sticky / plastic.
		60	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, moderately well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix (rock flour?), trace fine carbonaceous specks, trace fine lithics, trace glauconite ?, soft to friable, poor visual porosity, Fluorescence: Poor show, trace very dull orange spotted fluorescence in fine grained aggregates, faint dull yellow white crush cut, faint white ring residue.
2328	2334	50	<u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, grading to silty CLAYSTONE, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky. Note clay content washes from samples. Samples at shale shakers are sticky / plastic.
		50	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, moderately well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix (rock flour?), trace fine carbonaceous specks, trace fine lithics, trace glauconite ?, soft to friable, poor visual porosity, no fluorescence.
2334	2340	70	<u>SILTSTONE</u> : as above.
		30	<u>SANDSTONE</u> : as above, no fluorescence.
2340	2346	80	<u>SILTSTONE</u> : as above.
		20	<u>SANDSTONE</u> : as above, no fluorescence.

2346	2352	10 20 70	<u>SANDSTONE</u> : as above. <u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : medium grey to medium dark grey, greenish grey, minor red brown, silty grading to argillaceous SILTSTONE, minor fine carbonaceous flecks, rare nodular pyrite, trace micro mica, minor fine grained glauconite, trace lithics, soft to firm, dispersive to blocky, trace sub fissile.
2352	2358	20 80	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2358	2364	40 60	<u>SILTSTONE</u> : light to medium grey, light to medium greenish grey, occasionally medium brownish grey, common carbonaceous flecks, arenaceous locally grading to very fine silty SANDSTONE, trace very fine glauconite, trace micro mica, soft to firm, dispersive to blocky. <u>CLAYSTONE</u> : medium grey to medium dark grey, greenish grey, minor red brown, silty grading to argillaceous SILTSTONE, minor fine carbonaceous flecks, rare nodular pyrite, trace micro mica, minor fine grained glauconite, trace lithics, soft to firm, dispersive to blocky, trace sub fissile.
2364	2370	50 50	<u>SILTSTONE</u> : as above <u>CLAYSTONE</u> : as above grading to argillaceous SILTSTONE.
2370	2376	10 90	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : medium dark grey, occasionally greenish grey, silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace very fine lithics, soft to firm, dispersive to sub blocky.
2376	2382	100	<u>CLAYSTONE</u> : medium dark grey to dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace nodular pyrite, rare lithics, firm, plastic, dispersive to blocky.
2382	2388	100	<u>CLAYSTONE</u> : as above.
2388	2394	100	<u>CLAYSTONE</u> : medium dark grey to dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace nodular pyrite, rare lithics, firm, plastic, dispersive to blocky.
2394	2400	100	<u>CLAYSTONE</u> : as above.
2400	2406	100	<u>CLAYSTONE</u> : as above.
2406	2412	100	<u>CLAYSTONE</u> : medium dark grey to dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace nodular pyrite, rare lithics, firm, plastic, dispersive to blocky.
2412	2418	100	<u>CLAYSTONE</u> : as above.
2418	2424	100	<u>CLAYSTONE</u> : as above, grading to argillaceous SILTSTONE.
2424	2430	100	<u>CLAYSTONE</u> : as above, grading to argillaceous SILTSTONE.
2430	2436	30 70	<u>SILTSTONE</u> : medium grey, medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace orange lithics, trace micro mica, firm, blocky. <u>CLAYSTONE</u> : medium dark grey to dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace nodular pyrite, rare lithics, firm, plastic, dispersive to blocky.

2436	2442	30	<u>SILTSTONE</u> : medium grey, medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace orange lithics, trace micro mica, firm, blocky.
		70	<u>CLAYSTONE</u> : medium dark grey to dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace nodular pyrite, rare lithics, firm, plastic, dispersive to blocky.
2442	2448	30	<u>SILTSTONE</u> : medium grey, medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace orange lithics, trace micro mica, firm, blocky.
		70	<u>CLAYSTONE</u> : medium dark grey to dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace nodular pyrite, rare lithics, firm, plastic, dispersive to blocky.
2448	2454	20	<u>SILTSTONE</u> : medium grey, medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace orange lithics, trace micro mica, firm, blocky.
		80	<u>CLAYSTONE</u> : medium dark grey to dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace nodular pyrite, rare lithics, firm, plastic, dispersive to blocky.
2454	2460	20	<u>SILTSTONE</u> : medium grey, medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace orange lithics, trace micro mica, firm, blocky.
		80	<u>CLAYSTONE</u> : medium dark grey to dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, minor fine carbonaceous specks, trace nodular pyrite, rare lithics, firm, plastic, dispersive to blocky.
2460	2466	10	<u>SILTSTONE</u> : as above.
		90	<u>CLAYSTONE</u> : as above.
2466	2472	30	<u>SILTSTONE</u> : medium grey, medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace orange lithics, trace micro mica, firm, blocky.
		70	<u>CLAYSTONE</u> : medium dark grey to becoming predominately dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, common fine carbonaceous specks, rare lithics, firm, plastic, dispersive to blocky.
2472	2478	60	<u>SILTSTONE</u> : medium grey, medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace orange lithics, trace micro mica, firm, blocky.
		40	<u>CLAYSTONE</u> : medium dark grey to becoming predominately dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, common fine carbonaceous specks, rare lithics, firm, plastic, dispersive to blocky.
2478	2484	60	<u>SILTSTONE</u> : as above.
		40	<u>CLAYSTONE</u> : as above.
2484	2490	60	<u>SILTSTONE</u> : as above becoming medium brown in part.
		40	<u>CLAYSTONE</u> : as above.
2490	2496	60	<u>SILTSTONE</u> : as above becoming medium brown in part.
		40	<u>CLAYSTONE</u> : as above.
2496	2502	70	<u>SILTSTONE</u> : as above.
		30	<u>CLAYSTONE</u> : as above.

2502	2508	70 30	<u>SILTSTONE</u> : as above, medium dark grey, locally grading to very fine SANDSTONE. <u>CLAYSTONE</u> : as above.
2508	2514	70 30	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above, medium dark grey to occasionally dark grey.
2514	2520	70 30	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2520	2526	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2526	2532	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2532	2538	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2538	2544	80 20	<u>SILTSTONE</u> : as above, medium grey, grading to silty CLAYSTONE. <u>CLAYSTONE</u> : as above.
2544	2550	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2550	2556	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2556	2562	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2562	2568	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2568	2574	80 20	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace micro mica, soft to firm, blocky. <u>CLAYSTONE</u> : medium dark grey, occasionally dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, common fine carbonaceous specks, rare lithics, firm, plastic, dispersive to blocky.
2574	2580	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2580	2586	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2586	2592	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2592	2598	80 20	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : as above.
2598	2604	70 30	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace micro mica, soft to firm, blocky. <u>CLAYSTONE</u> : medium dark grey, occasionally dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, common fine carbonaceous specks, rare lithics, firm, plastic, dispersive to blocky.

2604	2610	70	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace micro mica, soft to firm, blocky.
		30	<u>CLAYSTONE</u> : medium dark grey, occasionally dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, common fine carbonaceous specks, rare lithics, firm, plastic, dispersive to blocky.
2610	2616	70	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to silty CLAYSTONE, minor fine carbonaceous specks, trace micro mica, soft to firm, blocky.
		30	<u>CLAYSTONE</u> : medium dark grey, occasionally dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, common fine carbonaceous specks, rare lithics, firm, plastic, dispersive to blocky.
2616	2622	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, minor fine carbonaceous specks, trace very fine lithics, trace micro mica, soft to firm, dispersive to occasionally blocky.
2622	2628	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2628	2634	10	<u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
		90	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2634	2640	100	<u>SILTSTONE</u> : as above, locally grading to very fine SANDSTONE.
2640	2646	100	<u>SILTSTONE</u> : as above, locally grading to very fine SANDSTONE.
2646	2652	100	<u>SILTSTONE</u> : as above, locally grading to very fine SANDSTONE.
2652	2658	100	<u>SILTSTONE</u> : as above, locally grading to very fine SANDSTONE.
2658	2664	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2664	2670	100	<u>SILTSTONE</u> : as above, locally grading to very fine SANDSTONE.
2670	2676	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2676	2682	100	<u>SILTSTONE</u> : as above, locally grading to very fine SANDSTONE.
2682	2688	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.

2688	2694	100	<u>SILTSTONE</u> : as above.
2694	2700	100	<u>SILTSTONE</u> : as above.
2700	2706	100	<u>SILTSTONE</u> : as above.
2706	2712	30 70	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, yellowish brown, very fine to fine grained, well sorted, sub angular to predominately sub rounded, weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2712	2718	20 80	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, yellowish brown, very fine to fine grained, well sorted, sub angular to predominately sub rounded, weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2718	2724	20 80	<u>SILTSTONE</u> : as above. <u>SANDSTONE</u> : as above, very argillaceous.
2724	2730	20 80	<u>SILTSTONE</u> : as above. <u>SANDSTONE</u> : as above, very argillaceous.
2730	2736	20 80	<u>SILTSTONE</u> : as above. <u>SANDSTONE</u> : as above, very argillaceous.
2736	2742	30 70	<u>SILTSTONE</u> : as above. <u>SANDSTONE</u> : as above, very argillaceous.
2742	2748	30 70	<u>SILTSTONE</u> : as above. <u>SANDSTONE</u> : as above, very argillaceous / silty grading to SILTSTONE.
2748	2754	40 60	<u>SILTSTONE</u> : as above. <u>SANDSTONE</u> : as above, very argillaceous / silty grading to SILTSTONE.
2754	2760	40 60	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, yellowish brown in part, trace translucent, very fine to fine grained, well sorted, sub angular to predominately sub rounded, trace weak calcareous cement, abundant off white argillaceous matrix (rock flour ?), minor carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.

2760	2766	40	<u>SILTSTONE</u> : medium grey to medium dark grey, medium brownish grey in part, argillaceous, arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
		60	<u>SANDSTONE</u> : gen as above, very light brown, very light brownish grey, off white, yellowish brown in part, trace translucent, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant off white argillaceous matrix (rock flour ?), minor carbonaceous flecks, firm to friable, very poor visual porosity, no fluorescence.
2766	2772	100	<u>SANDSTONE</u> : generally as above, very light brown, very light brownish grey to off white, yellowish brown, trace translucent, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant off white argillaceous matrix (rock flour ?), common fine carbonaceous specks / flecks, firm to friable, very poor visual porosity, no fluorescence.
2772	2778	100	<u>SANDSTONE</u> : generally as above, very light brown, very light brownish grey to off white, yellowish brown, trace translucent, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant off white argillaceous matrix (rock flour ?), common fine carbonaceous specks / flecks, firm to friable, very poor visual porosity, no fluorescence.
2778	2784	100	<u>SANDSTONE</u> : as above.
2784	2790	50	<u>SILTSTONE</u> : medium grey to medium dark grey, medium brownish grey in part, argillaceous, arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
		50	<u>SANDSTONE</u> : as above.
2790	2796	80	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous, grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
		20	<u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, trace weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2796	2802	80	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous, grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
		20	<u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2802	2808	90	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous, grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
		10	<u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.

2808	2814	80 20	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous, grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, trace weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2814	2820	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2820	2826	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2826	2832	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2832	2838	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2838	2844	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2844	2850	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2850	2856	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2856	2862	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2862	2868	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2868	2874	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.

2874	2880	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2880	2886	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2886	2892	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2892	2898	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2898	2904	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2904	2910	100	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.
2910	2916	90 10	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, trace weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine, grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2916	2922	90 10	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine, grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2922	2928	80 20	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, trace weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.

2928	2934	70 30	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2934	2940	70 30	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2940	2946	60 40	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2946	2952	70 30	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, trace weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2952	2958	40 60	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, trace weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.
2958	2964	40 60	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium grey, light brown, very fine to medium, moderately to well sorted, sub angular to sub rounded, light brown silty matrix, predominately loose quartz grains, trace red lithics, friable aggregates, very poor inferred porosity, no fluorescence.

2964	2970	40 60	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium grey, light brown, very fine to medium, moderately to well sorted, sub angular to sub rounded, light brown silty matrix, predominately loose quartz grains, trace red lithics, friable aggregates, very poor inferred porosity, no fluorescence.
2970	2976	10 90	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium grey, light brown, very fine to medium, moderately to well sorted, sub angular to sub rounded, light brown silty matrix, predominately loose quartz grains, trace red lithics, friable aggregates, very poor inferred porosity, no fluorescence.
2976	2982	10 90	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium grey, light brown, very fine to medium, moderately to well sorted, sub angular to sub rounded, light brown silty matrix, predominately loose quartz grains, trace red lithics, friable aggregates, very poor inferred porosity, no fluorescence.
2982	2988	10 90	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium grey, light brown, very fine to medium, moderately to well sorted, sub angular to sub rounded, light brown silty matrix, predominately loose quartz grains, trace red lithics, friable aggregates, very poor inferred porosity, no fluorescence.
2988	2994	10 90	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium grey, light brown, very fine to medium, moderately to well sorted, sub angular to sub rounded, light brown silty matrix, predominately loose quartz grains, trace red lithics, friable aggregates, very poor inferred porosity, no fluorescence.
2994	3000	10 90	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium brownish grey, very fine to medium, moderately well sorted, sub angular to sub rounded, light brown silty matrix which washes from samples, trace lithics, minor carbonaceous specks, trace nodular pyrite, predominately loose quartz grains, trace friable aggregates, very poor inferred porosity, no fluorescence.

3000	3006	30 70	<u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium brownish grey, very fine to medium, moderately well sorted, sub angular to sub rounded, light brown silty matrix which washes from samples, trace lithics, minor carbonaceous specks, trace nodular pyrite, predominately loose quartz grains, trace friable aggregates, very poor inferred porosity, no fluorescence.
3006	3012	10 30 60	<u>SILTSTONE</u> : as above. <u>CLAYSTONE</u> : light to medium grey, occasionally light brownish grey, light greenish grey, trace fine carbonaceous specks, soft to dispersive occasionally blocky. <u>SANDSTONE</u> : as above.
3012	3018	50 30 20	<u>CLAYSTONE</u> : light to medium grey, light brownish grey, light greenish grey, trace fine carbonaceous specks, soft to dispersive occasionally blocky. <u>SILTSTONE</u> : medium grey, occasionally medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : clear, translucent, off white, light to medium brownish grey, very fine to occasionally medium, moderately well sorted, sub angular to sub rounded, light brown silty matrix which washes from samples, trace lithics, minor carbonaceous specks, trace nodular pyrite, trace fine grained glauconite, predominately loose quartz grains, trace friable aggregates, very poor inferred porosity, no fluorescence.
3018	3024	30 70	<u>CLAYSTONE</u> : light to occasionally medium grey, greenish grey, occasionally red brown, pinkish grey, white, firm, blocky to dispersive. <u>SANDSTONE</u> : translucent, clear, light grey, fine to medium grained, sub angular to sub rounded, fair sorting, trace silty matrix, rare nodular pyrite, trace red and green lithics, predominately loose clean quartz grains, poor inferred porosity, no fluorescence.
3024	3030	100	<u>SANDSTONE</u> : Basement ?, clear, translucent, occasionally with red stain, fine to medium grained, sub angular to sub rounded, no visible cement or matrix, rare nodular pyrite, common red lithics, trace green lithics, predominately dis-aggregated quartz grains, very poor inferred porosity, no fluorescence.
3030	3036	100	<u>SANDSTONE</u> : Basement ?, clear, translucent, occasionally with red stain, fine to medium grained, sub angular to occasionally sub rounded, no visible cement or matrix, rare nodular pyrite, common red and green lithics, common white and light greenish grey feldspars, trace biotite, predominately dis-aggregated quartz grains, v hard fractured quartz aggregates, tight inferred porosity, no fluorescence.
3036	3042	100	<u>SANDSTONE</u> : Basement ?, clear, translucent, occasionally with red stain, fine to medium grained, sub angular to occasionally sub rounded, no visible cement or matrix, rare nodular pyrite, common red and green lithics, common white and light greenish grey feldspars, trace biotite, predominately dis-aggregated quartz grains, v hard fractured quartz aggregates, tight inferred porosity, no fluorescence.
3042	3048	30 70	<u>META-SILTSTONE</u> : white, very light grey, very light greenish grey, light pinkish grey, soft to firm, uniform, blocky. <u>SANDSTONE</u> : as above, basement (?)

3048	3054	70	<u>META-SILTSTONE</u> : white, very light grey, light pinkish grey, light greenish grey, uniform, firm, blocky to sub fissile.
		30	<u>META-SANDSTONE</u> : clear, translucent, light grey, white, fine to coarse, sub angular, predominately dis-aggregated quartz grains, hard fractured quartz aggregates in part, rare pyrite, trace biotite, trace red lithics, tight inferred porosity, no fluorescence.
3054	3060	30	<u>META-SILTSTONE</u> : white, very light grey, light pinkish grey, light greenish grey, uniform, firm, blocky to sub fissile.
		70	<u>META-SANDSTONE</u> : clear, translucent, light grey, white, fine to coarse, sub angular, predominately dis-aggregated quartz grains, hard fractured quartz aggregates in part, rare pyrite, trace biotite, trace red lithics, tight inferred porosity, no fluorescence.
3060	3062	30	<u>META-SILTSTONE</u> : white, very light grey, light pinkish grey, light greenish grey, uniform, firm, blocky to sub fissile.
		70	<u>META-SANDSTONE</u> : clear, translucent, light grey, white, fine to coarse, sub angular, predominately dis-aggregated quartz grains, hard fractured quartz aggregates in part, rare pyrite, trace biotite, trace red lithics, tight inferred porosity, no fluorescence.

SECTION 2.2 : SIDEWALL CORE DESCRIPTIONS

SANTOS LIMITED

SIDEWALL CORE DESCRIPTION

WELL: JARVER 1

DATE: 6-6-08

PAGE: 1 of 3

GUN NO.: SUITE 1 RUN 2

SHOTS FIRED: 30

SHOTS BOUGHT: 9 Recovered (refer to comments)

GEOLOGIST: J.PITMAN

CORE NO.	REQUESTED DEPTH (m)	ACTUAL DEPTH (m)	REC. mm	PALYN. EVAL. REJECT	LITH.	COLOUR	GRAIN SIZE	HYDR. INDIC. (Y/N)	SUPPLEMENTARY INFORMATION
1	3046	Misfired							MISFIRE
2	3045	Misfired							MISFIRE
3	3033	3033.3	20	Y	Meta-Siltstone	light grey	-	N	META-SILTSTONE: very light grey to white, uniform, hard.
4	3027.5	Misfired							MISFIRE
5	3024	Misfired							MISFIRE
6	3018	3033.11	20	Y	Claystone	light greenish grey	-	N	CLAYSTONE: very light greenish grey, uniform, soft, plastic.
7	3009	Misfired							MISFIRE
8	3004	Misfired							MISFIRE
9	2967	3032.92	22	Y	Claystone	light greenish grey	-	N	CLAYSTONE: very light greenish grey, uniform, soft, plastic.
10	2950	Misfired							MISFIRE
11	2944	Misfired							MISFIRE
12	2910	3032.73	20	Y	Claystone	light greenish grey	-	N	CLAYSTONE: very light greenish grey, uniform, soft, plastic.
13	2827	Misfired							MISFIRE
14	2788	Misfired							MISFIRE
15	2688	3032.54							LOST BULLET
16	2674	Misfired							MISFIRE
17	2579	Misfired							MISFIRE
18	2525	3032.35	12	Y	Claystone	light greenish grey	-	N	CLAYSTONE: very light greenish grey, uniform, soft, plastic.
19	2440	Misfired							MISFIRE

SANTOS LIMITED

SIDEWALL CORE DESCRIPTION

WELL: JARVER 1

DATE: 6-6-08

PAGE: 2 of 3

GUN NO.: SUITE 1 RUN 2

SHOTS FIRED: 30

SHOTS BOUGHT: 9 recovered (refer to comments)

GEOLOGIST: J.PITMAN

CORE NO.	REQUESTED DEPTH (m)	ACTUAL DEPTH (m)	REC. mm	PALYN. EVAL. REJECT	LITH.	COLOUR	GRAIN SIZE	HYDR. INDIC. (Y/N)	SUPPLEMENTARY INFORMATION
20	2360	Misfired							MISFIRE
21	2327	3032.16	15	Y	Claystone	light greenish grey	-	N	CLAYSTONE: ½ very light greenish grey, uniform, soft, plastic. ½ arenaceous with fine to medium angular quartz grains.
22	2325	Misfired							MISFIRE
23	2324	Misfired							MISFIRE
24	2313	3031.97	15	Y	Claystone / Sandstone	light grey	fine	N	SANDSTONE: very argillaceous, light grey to white, fine grained quartz grains in an abundant light grey argillaceous matrix.
25	2249	Misfired							MISFIRE
26	2194	Misfired							MISFIRE
27	2173	3031.78	15	Y	Claystone	light grey	-	N	CLAYSTONE, light grey, uniform, soft, plastic.
28	2092	Misfired							MISFIRE
29	2040	Misfired							MISFIRE
30	1985	3031.59	10	Y	Granite ?	pink	fine to coarse	N	GRANITE: ? pale red to moderate pink, fine to coarse grained angular smoky quartz grains, trace pyrite. ??? Sidewall core gun misfire? Refer to comments below.

SANTOS LIMITED

SIDEWALL CORE DESCRIPTION

WELL:	JARVER 1	DATE:	6-6-08	PAGE:	3 of 3
GUN NO.:	SUITE 1 RUN 2	SHOTS FIRED:	30	SHOTS BOUGHT:	9 Recovered (refer to comments)
		GEOLOGIST:	J.PITMAN		

COMMENTS:

30 Sidewall cores were attempted. Lines 1 and 2 of the sidewall core gun failed resulting in 20 misfires.

Sample 30 was identified as a granite. This indicated all cores recovered fired simultaneously.

No error was made in sample collection from the gun as this was performed and witnessed by the Schlumberger operators, 2 engineers and the wellsite geologist.

Sidewall core guns are wired with 3 electrical lines. Electrical lines 1 and 2 in the sidewall core gun failed resulting in pairs of misfired bullets through-out the run. When shot 3 fired (Line 3 of the wiring for the gun) all corresponding shots connect to Line 3 would have fired.

When the third core was fired (presumably at 3033m) overpull was observed. The tool was worked up and down to free the core and continue logging. Subsequent cores exhibited little overpull and in retrospect thought to be due to slightly sticky hole and initiating tool movement while logging.

The Schlumberger Non-conformance Report (dated 10th June 2008) confirmed the loss of insulation in feeder Lines 1 & 2.

SECTION 2.3 : CATALOGUE OF WELLSITE SAMPLES

Due to weather conditions the samples were not able to be dried at the wellsite. Samples were forwarded to Baker Hughes Inteq for processing and distribution.

Sampling Summary and Record of Distribution

Well: **JARVER 1**

Rig: **OCEAN PATRIOT**

From: **BHI Unit 86033**

TOTAL OF 10 BOXES

10 BIG BOXES

2 CARD BOARD BOXES (SAMPLEX TRAYS) (Set -5)

To be consigned to: Attn: Luke Faulkner
Santos Core Library C/- Santos RDC Lot 44
Ocean Steamers Rd
Port Adelaide
S.A

Items being shipped: Geological Samples

Date Shipped:

Method of Shipment: Boat

OPC2068

receipt of the goods documented on this manifest by signing below and faxing this manifest to Mr. Michael Giuliano

Senior Staff Operations Geologist Santos Ltd. 0418 821275, 08 8224 7673.

Consignee signature: _____ Date: _____

SAMPLING INTERVALS

SAMPLE MANIFEST

Cutting samples were collected at the following intervals for JARVER-1

DEPTH	SAMPLE INTERVAL
1407 m – 1947 m	10 m (54 Samples)
1947 m – 3062 m (T.D)	6 m (185 Samples)

Washed and Wet samples were collected in calico bags (Cotton bags) and packed in large packard boxes. Total 37 boxes in container no.OPC2068

BOX NO.	START DEPTH	END DEPTH
1	1410 m	1480 m
2	1480 m	1560 m
3	1560 m	1640 m
4	1640 m	1720 m
5	1720 m	1800 m
6	1800 m	1880 m
7	1880 m	1947 m
8	1947 m	1980 m
9	1980 m	2028 m
10	2028 m	2076 m
11	2076 m	2124 m
12	2124 m	2172 m
13	2172 m	2220 m
14	2220 m	2256 m
15	2256 m	2292 m
16	2292 m	2328 m
17	2328 m	2364 m
18	2364 m	2400 m
19	2400 m	2436 m
20	2436 m	2472 m
21	2472 m	2508 m
22	2508 m	2544 m
23	2544 m	2580 m
24	2580 m	2616 m
25	2616 m	2652 m
26	2652 m	2688 m
27	2688 m	2724 m
28	2724 m	2760 m
29	2760 m	2796 m
30	2796 m	2832 m
31	2832 m	2868 m
32	2868 m	2904 m

33	2904 m	2940 m
34	2940 m	2976 m
35	2976 m	3012 m
36	3012 m	3048 m
37	3048 m	3062 m (T.D)



: +61894550147

CLIENT : SANTOS
DATE : 6 JUNE 08

Material Issued by : _____Dibyendu & Rahul_____

Date : 6 June 08

Approved by : _____

Date : _____

Material received by : _____

Date : _____

SECTION 3: WIRELINE LOGGING REPORTS

SECTION 3.1 : SUITE 1 - LOGGING ORDER FORM

LOGGING ORDER FORM

COMPANY:	SANTOS & PARTNERS		
WELL:	Jarver 1	FIELD:	Gas / Oil Exploration
RIG:	Ocean Patriot	STATE:	Tasmania
LOCATION:	DS01-142X Trace 1280	BLOCK:	Sorell Basin
		LICENCE:	T/33P
LATITUDE:	41° 20' 27.251" S	LONGITUDE:	144° 14' 03.19 E

ELEVATIONS:			
RT:	20.85 m AHD	WATER DEPTH	576.85 m
		SEABED:	597.7m

914mm (36") HOLE:	645m	762mm (30") CSG	643m	WT:	461kg/m (310lb/ft)
660mm (20") HOLE:	1407m	508mm (20") CSG	1399m	WT:	198 kg/m (133 lb/ft)
445mm (17.5") HOLE:	1947m	340mm (13.375") CSG:	1942m	WT:	101 kg/m (68 lb/ft)
311mm (12.25") HOLE:	3062m				

TD (DRILLER):	3062m Total Depth Reached at 07:00hrs on 4/6/08

MUD SYSTEM:	KCl/Gly	CIRC STOPPED @	10:30hr 4/6/08
BARITE:	4.3%		
WT:	1.25sg	VIS:	60
		pH:	9.2
		FLUID LOSS:	5.0

Total depth reached at 07:00hrs on 4/6/08
Circulation at total depth finished at 10:30hr on 4/6/08

GEOLOGIST:	J.Pitman

INFORMATION GIVEN ABOVE IS TO BE USED ON LOG HEADER SHEETS

HOLE CONDITIONS (TIGHT SPOTS, DEVIATION, COALS, BARITE IN MUD, ETC.)
Maximum deviation: 0.45° @ 2335m

DRILL STEM TESTS/CORED INTERVALS:
nil

COMMENTS (TO BE INCLUDED IN REMARKS SECTION OF HEADER SHEET):
Standard Santos scales to be applied to all logs run.

LOGGING ORDER FORM

LOGGING PROGRAMME:

LOG	INTERVAL	COMMENTS
Run 1: Checkshot Survey / zero off-set VSP		To loss of signal in 13 3/8"
Run 2: Percussion Sidewall Cores		1 gun

REMARKS: (ALL OPERATIONS AS PER SANTOS OPERATING PROCEDURES)

- TENSION CURVE - TO BE DISPLAYED ON LOG FROM T.D. TO CASING SHOE.
- ALL CALIBRATIONS IN CASING MUST BE VERSUS DEPTH.
- ALL THERMOMETER READINGS TO BE RECORDED ON LOG
- ALL SCALES AND PRESENTATIONS TO CONFIRM TO STANDARDS UNLESS OTHERWISE ADVISED.
- THE FIELD/EDIT TAPE MUST BE A MERGED COPY OF ALL LOGS RUN. SEPARATE TAPES ARE ONLY ACCEPTABLE AS AN INTERIM MEASURE.
- ANY CHANGE FROM STANDARD PROCEDURES/SCALES TO BE NOTED IN REMARKS SECTION.
- RM, RMF, RMC AND BHT MUST BE ANNOTATED ON LOGS. LOGS SHOULD ALSO INDICATE IF ON DEPTH OR NOT.
- LOG DATA IS TO BE TRANSMITTED AS SOON AS POSSIBLE AFTER ACQUISITION. IF ANY DELAYS ARE LIKELY OR IF DATA TRANSMISSION WILL ADVERSELY EFFECT THE OPERATION THEN THE WELLSITE GEOLOGIST MUST BE IMMEDIATELY INFORMED.

SECTION 3.2 : SUITE 1 – FIELD ELECTRIC LOGGING REPORT

SANTOS LIMITED
FIELD ELECTRIC LOG REPORT

WELL:	JARVER 1	GEOLOGISTS:	J.PITMAN
LOGGING ENGINEER:	Malik Jahangir / Srinivasan		
RUN NO.:	SUITE 1	DATE LOGGED:	5/06/08
DRILLERS DEPTH:	3062m	LOGGERS DEPTH:	3062m
ARRIVED ON SITE:	Crew arrived onboard - 4 th June 2008		
ACTUAL LOG TIME:	17 hours	LOST TIME LOGGER:	17.5 hr
			*See Remarks
TOTAL TIME:	34.5 hours	LOST TIME OTHER:	nil

TYPE OF LOG	VSP (Checkshot)	CST	
TIME CIRC. STOPPED	10:30hr 4/06/08	10:30hr 4/06/08	
TIME TOOL RIG UP	00:30hr 5/06/08	01:15hr 6/06/08	
TIME TOOL RIH	01:30hr 5/06/08	02:30hr 6/06/08	
TIME TOOL RIG DOWN	01:15hr 6/06/08	11:00hr 6/06/08	
TOTAL TIME	24:45 hr	9:45 hr	

TYPE OF LOG	FROM (m)	TO (m)	REPEAT SECTION	TIME SINCE LAST CIRCULATION	BHT
Run 1 VSP-GR Checkshot	3062	795	No repeat section	28 hours 30 minutes	72.2deg C 162deg Fht
Run 2 CST-GR	3046	1985		Sample examination indicates the sidewall cores fired simultaneously. 9 cores were recovered, 1 lost bullet and 20 misfires.	

MUD SYSTEM: KCl/PHPA	MW: 1.25sg
Rm = 0.0912 ohm.m @ 22 deg C	FV: 60
Rmf = 0.084 ohm.m @ 26.8 deg C	PV/YP: 17/30
Rmc = 0.1782 ohm.m @ 22.8 deg C	FL: 5.0 pH: 9.2
HOLE CONDITIONS:	
Hole conditions were good while logging with no hole problems observed.	

REMARKS / RECOMMENDATIONS

1. Run 1 run into the hole to 2600m. Wireline engineers out of work hours. Run 1 pulled back to the casing shoe to wait on time for engineers to rest.
2. 11:15hrs 5/6/08 Resume wireline operations. Unable to power up tools. Pull out of hole to 1300m. Attempt to power up tools, OK. Telemetry OK. Run in hole.
3. At first station at total depth. Lower shuttle unit (receiver and caliper) caliper not opening fully. Tool anchored aiding lower caliper to open successfully.
4. Run 1 VSP loss of signal at 795m having completed 37 stations, 4 levels per station, 3 shots per station.
5. Bottom Hole Temperature from Run 1 Thermometers: 72.2°C (162°F)

30 Sidewall cores were attempted. Lines 1 and 2 of the sidewall core gun failed resulting in 20 misfires.

Sample 30 was identified as a granite. This indicated all cores recovered fired simultaneously.

No error was made in sample collection from the gun as this was performed and witnessed by the Schlumberger operators, 2 engineers and the wellsite geologist.

Sidewall core guns are wired with 3 electrical lines. Electrical lines 1 and 2 in the sidewall core gun failed resulting in pairs of misfired bullets through-out the run. When shot 3 fired (Line 3 of the wiring for the gun) it is presumed all corresponding shots connect to Line 3 would have fired.

The Schlumberger Non-conformance Report (dated June 10 2008) found a loss of electrical insulation on Feeder Lines 1 & 2 of the sidewall core gun.

When the third core was fired (presumably at 3033m) overpull was observed. The tool was worked up and down to free the core and continue logging. Subsequent cores exhibited little overpull and in retrospect thought to be due to slightly sticky hole and initiating tool movement while logging.

Summary of Lost Time. (Total 17.5 hrs)

VSP Survey: 0.5 Hours Lost while jump starting the wireline unit.

5.5 Hours Lost due to the engineers having insufficient rest time.

1.75 Hours Lost while attempting to power –up the tools after waiting in the hole (Tools over-heating)

CST Survey: 9.75 Hours, the entire run was mis-run due to the failure of the tools.

WELLSITE LOG QUALITY CONTROL CHECKS

LOG ORDER FORM	Y	MUD SAMPLE RESISTIVITY	Y	TOOL NO. / CODE CHECK	Y
OFFSET WELL DATA	*1	CABLE DATA CARD	Y	LOG SEQUENCE CONFIRM.	*2

LOG TYPE							VSP	CST	
CASING CHECK									
SCALE CHECK									
DEPTH Casing Total									
CALIBRATIONS OK									
REPEATABILITY									
LOGGING SPEED									
OFFSET WELL Repeatability									
NOISY / MISSING DATA									
CURVES/LOGS Depth Matched									
Rm MEASUREMENT									
LLS / LLD / CHECK									
PERF / RHOB CHECK									
LOG HEADER / TAIL							Y	Y	
PRINT/FILM QUALITY							-	-	

COMMENTS: *1: Exploration well *2: Logging sequence confirmed with Geology Operations and Schlumberger *3: Casing Shoe Driller: 1942 m

Total Depth Driller: 3062m

Run 2 CST misrun.

ENGINEERS COMMENTS (If this report has not been discussed with the Engineer state reason)

Due to the failure of the sidewall core run a follow-up report from Schlumberger will be required.

(Schlumberger Report No. 20080610083310 dated 10th June 2008)

SECTION 3.3 : SUITE 1 – ELECTRIC LOGGING TIME SUMMARY

Geology Operations

ELECTRIC LOGGING TIME SUMMARY

LOGGING UNIT:	1909	LEFT BASE:	3/06/08	WELL NAME:	JARVER 1
START DATE:	05/06/08	ARRIVED @ WELLSITE:	4/06/08	TRIP NUMBER:	Suite 1
END DATE:	6/06/8	INITIAL RIG UP:	12:30hr5/6/08	WELLSITE GEOLOGIST:	J.Pitman
DEPTH DRILLER:	3062m	FINAL RIG DOWN:	11:00hr 6/6/8	LOGGING ENGINEER:	Malik Jahangir/Srivasan
DEPTH LOGGER:	3062m	RETURN TO BASE:	7/06/08	PAGE / DATE:	Page 1 5/6/08

DATE / TIME	RIG UP / DOWN	TOOL CHECK	RIH / POOH	LOGGING	DATA TX	LOST TIME	I. O.	WIPER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS	
00:00											JARVER 1 SUITE 1 WIRELINE LOGS AT TOTAL DEPTH	
:30						X					12:20HR CONDUCT SAFETY MEETING WITH CREW.	
01:00	X										00:30HR WIRELINE UNIT NOT STARTING – JUMP START BATTERY.	
:30	X										01:00HR RIG UP TOOLS RUN 1 VSP	
			X								01:30HR RUN IN HOLE	
			X									
02:00			X									
			X									
:30			X								02:30HR QC SHOT	
			X									
03:00			X									
			X									
:30			X								03:30HR QC SHOT	
			X									
04:00			X									
			X									
:30			X									
			X									
05:00			X								05:00HR QC SHOT AT 1500m RUN IN HOLE	
			X									
:30			X									
						X					05:45HR ENGINEER OUT OF HOURS PULL BACK TO THE CASING SHOE WAIT REST TIME.	
06:00						X						
						X						
:30						X						
						X						
07:00						X						
						X						
:30						X						
						X						
08:00						X						
						X					ENGINEER OUT OF HOURS – WAIT ON REST TIME. FOR SUFFICIENT HOURS	
:30						X						
						X						
09:00						X						
						X						
:30						X						
						X						
10:00						X						
						X						
:30						X						
						X						
11:00						X						
						X					11:15HR RESUME OPERATIONS UNABLE TO POWER UP TOOL	
:30						X						
						X						
											WSG (SIGN)	ENGINEER(SIGN)
											J.PITMAN	M. JAHANGIR
TOTAL												
											TOOLS RUN:	
											TOOLS RUN:	
											TOOLS RUN:	

LOGGING UNIT:	1909	WELL NAME	JARVER 1	PAGE	1A

DATE / TIME	RIG UP / DOWN	TOOL CHECK	RIH / POOH	LOGGING	DATA TX	LOST TIME	I. O.	WIPER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS
12:00						X					CHECK POWER FROM WINCH
						X					
:30						X					12:45HR PULL OUT OF HOLE
						X					13:00HR AT 1300m CHECK TOOL
13:00			X								POWER AND TELEMETRY OK – RUN
			X								IN HOLE – SUSPECT PROBLEM WAS
:30			X								DUE TO TOOL OVERHEATING
			X								WHILE AT THE CASING SHOE.
14:00			X								
			X								
:30			X								
			X								
15:00			X								15:05HR ADD 0.6m CABLE STRETCH
				X							15:10HR CORRELATE TO LWD
:30			X								RECORDED MODE LOG – ADD 0.75m
				X							15:20HR RUN IN HOLE TO TD
16:00				X							15:50HR TAG BOTTOM. MOVE TO
				X							FIRST STATION. CALIPER ON LOWER
:30				X							SHUTTLE NOT WORKING – CYCLE
				X							AND ANCHOR – OK.
17:00				X							16:15HR MOVE TO SECOND STATION.
				X							
:30				X							
				X							
18:00				X							
				X							
:30				X							
				X							
19:00				X							
				X							
:30				X							
				X							
20:00				X							
				X							
:30				X							
				X							
21:00				X							
				X							
:30				X							
				X							
22:00				X							
				X							
:30				X							
				X							
23:00				X							
				X							
:30				X							LOSS OF SIGNAL AT 795m
				X							
											WSG (SIGN)
											ENGINEER(SIGN)
											TOTALS
											J.PITMAN
											M. JAHANGIR
Total											
											TOOLS RUN:
											TOOLS RUN:
											TOOLS RUN:

SERVICE QUALITY SUMMARY									
CLIENT WSG					ENGINEER				
1	2	3	4	5	1	2	3	4	5
1: Excellent - 2 - 3: Normal - 4 - 5: Very Poor									

SAFETY
PROMPTNESS
TOOL & SURFACE SYSTEM PERFORMANCE
ATTITUDE & CO-OPERATION
WELLSITE PRODUCTS / LOG QUALITY
COMMUNICATIONS / TX PERFORMANCE
OTHER (PLEASE SPECIFY)

ELECTRIC LOGGING TIME SUMMARY

WELL NAME:	JARVER 1
TRIP NUMBER:	Suite 1
WELLSITE GEOLOGIST:	J.Pitman
LOGGING ENGINEER:	Malik Jahangir/Srivasan
PAGE / DATE:	Page 2 6/6/08

DATE / TIME	RIG UP / DOWN	TOOL CHECK	RIH / POOH	LOGGING	DATA TX	LOST TIME	I. O.	WIPER TRIP	LOST TIME OTHERS	OTHERS	COMMENTS / REMARKS	
00:00			X								00:00HRS FINISH VSP SURVEY	
			X								37 STATIONS, 4 LEVELS PER STATION	
:30			X								3 SHOTS	
	X										00:45HR TOOL ON SURFACE	
01:00	X										RIG DOWN TOOLS.	
	X										01:10HR FINISH RIGGING DOWN	
:30	X										01:15HR PREPARE CST GUNS	
	X											
02:00	X										02:00HR PICK UP TOOLS FOR RUN 2	
	X										CST	
:30			X								02:30HR RUN IN HOLE WITH RUN 2	
			X								SIDEWALL CORES	
03:00			X									
			X									
:30			X									
			X									
04:00			X									
			X									
:30				X							04:30HR CORRELATE	
				X								
05:00				X							05:00HR 1 ST SHOT	
				X								
:30				X								
				X								
06:00				X								
				X								
:30				X							30 SHOTS ATTEMPTED	
				X							9 RECOVERED	
07:00				X							20 MISFIRES (LINES 1 & 2 OF GUN)	
				X							1 LOST BULLET	
:30				X								
				X								
08:00				X								
				X								
:30				X								
				X								
09:00				X							09:15HR LAST SHOT PULL OUT OF HOLE	
			X									
:30			X									
			X									
10:00			X								10:00HR RADIO SILENCE	
	X											
:30	X										10:20HR TOOLS ON SURFACE – RIG DOWN.	
	X											
11:00											11:00HR FINISH RIGGING DOWN	
											WIRELINE	
:30												
											WSG (SIGN)	
											ENGINEER(SIGN)	
TOTAL											J.PITMAN	M. JAHANGIR
24.75	1.0		7.5	8.5		7.75					TOOLS RUN: RUN 3 VSP-GR	
9.75	2.0		3.0	4.75							TOOLS RUN: RUN 2 CST	
											TOOLS RUN:	

**SECTION 3.4: LWD END OF WELL REPORT
(Schlumberger)**

Schlumberger
Drilling & Measurements

Santos



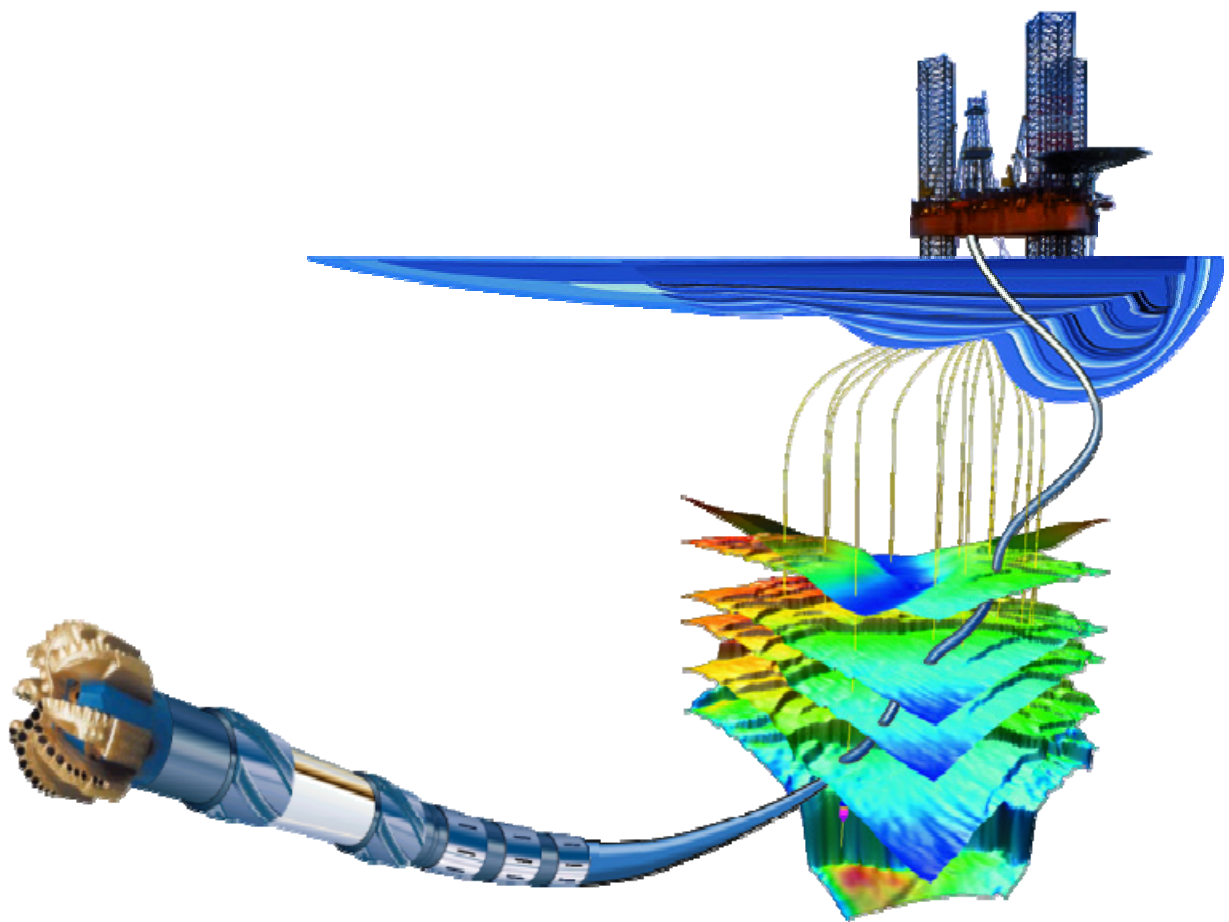
Jarver-1

End of Well Report

Contents

1. General Information
2. Definitive Survey
3. Drilling & MWD/LWD Run Summary
4. BHA Reports
5. Drilling Parameter Sheets
6. Drilling Tool Run Reports
7. Drill Bit Grading

1. General Information



General Information

Well Name:	Jarver-1	
Rig:	Ocean Patriot	
Field:	T/33P	
Location:	Bass Strait	
Country:	Australia	
Cell Members:	Mark Lu John Oldridge Jaimie Lovell Daniel Priestley	MWD/LWD Engineer MWD/LWD Engineer MWD/LWD Engineer Directional Driller
Town Contacts:	James O'Connor Michael McDermott Khin Maung	Operations Manager Field Services Manager R&M Supervisor Sale
Company Representatives:	Peter Devine Chris Roots Rohan Richardson Nathan Peri John Pitman	Senior Drilling Supervisor Senior Drilling Supervisor Drilling Supervisor Drilling Supervisor Well Site Geologist

Geomagnetic and Survey Reference Criteria

Jarver-1

Geomagnetic Data

Magnetic Model:	BGGM version 2007
Magnetic Date:	25 th May 2008
Magnetic Field Strength:	61 813.677 nT
Magnetic Declination:	12.453 degrees
Magnetic Dip:	-71.862 degrees

Survey Reference Criteria

Reference G:	1000.31 mg
Reference H:	1236.28 HCNT
Reference Dip:	-71.862 degrees
G value Tolerance:	2.50 mg
H value Tolerance:	6.00 HCNT
Dip Tolerance:	0.45 degrees

Survey Corrections Applied

Reference North:	Grid North
Magnetic Declination:	12.453 degrees
Grid Convergence:	-2.136 degrees
Total Azimuth Correction:	14.591 degrees
Vertical Section Azimuth:	112.20 degrees

Survey Reference Location

Jarver-1 Surface Coordinates:

Latitude: 41° 20' 27.2515" South

Longitude: 144° 14' 03.1903" East

Northing: 5 418 350.393 meters

Easting: 770 615.074 meters

Datum: GDA94/MGA94 Zone 54

Vertical Datum: Australian Height Datum

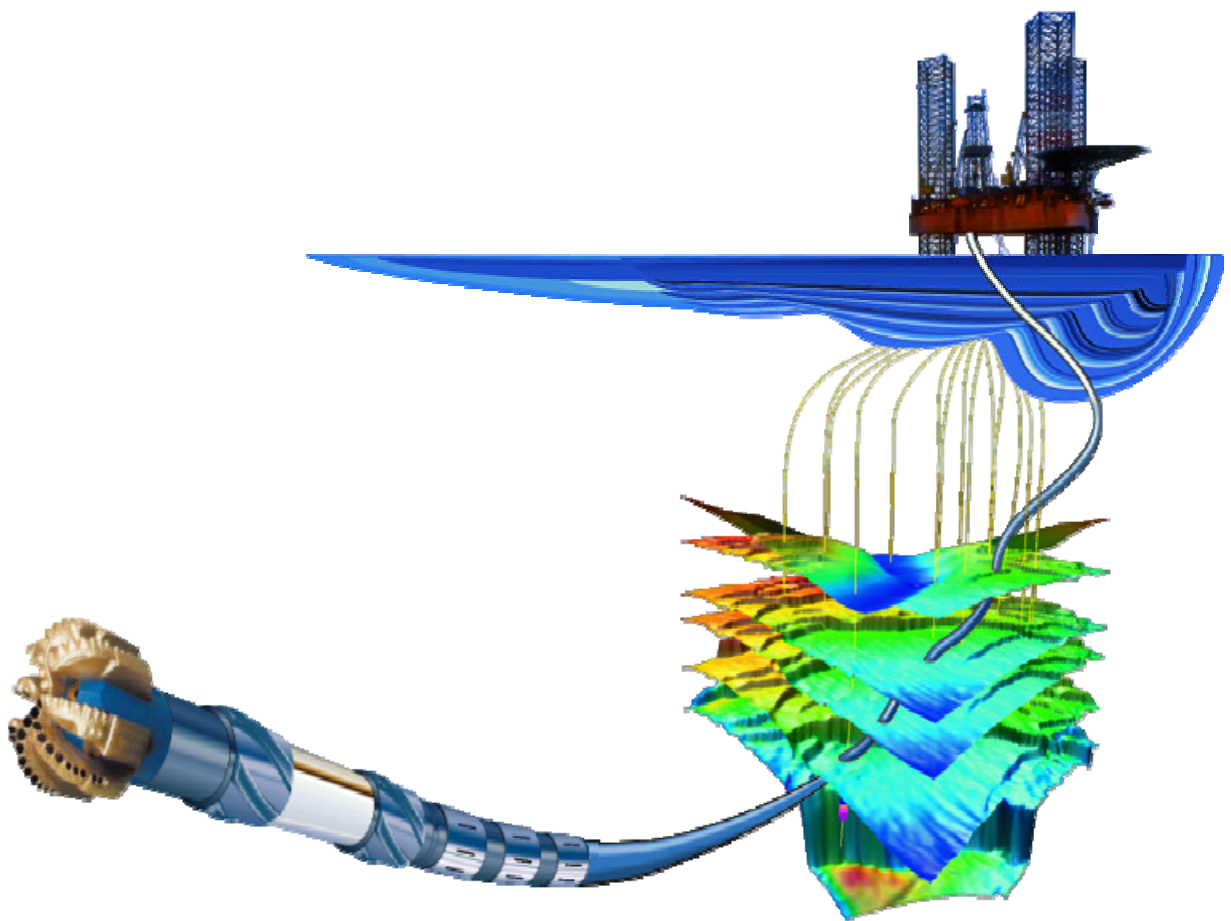
Rotary Table Elevation: 20.85 m above AHD

Health, Safety and Environment

Schlumberger Drilling and Measurements personnel actively participated in the Diamond Drilling STOP safety initiative, and attended pre-tour and weekly safety meetings.

Schlumberger Drilling and Measurements personnel were not involved in any safety incidents while on board the Ocean Patriot.

2. Definitive Survey





Jarver-1 Final Survey Report

Report Date: June 4, 2008	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Santos	Vertical Section Azimuth: 112.200°
Field: Santos/Jarver	Vertical Section Origin: N 0.000 m, E 0.000 m
Structure / Slot: Jarver-1 / Jarver 1	TVD Reference Datum: RKB
Well: Jarver-1	TVD Reference Elevation: 20.85 m relative to Australian Height Datum
Borehole: Jarver 1	Sea Bed / Ground Level Elevation: -575.850 m relative to Australian Height Datum
UWI/API#: Well-807506	Magnetic Declination: 12.453°
Survey Name / Date: Jarver-1 Surveys / May 25, 2008	Total Field Strength: 61813.677 nT
Tort / AHD / DDI / ERD ratio: 22.332° / 20.77 m / 3.182 / 0.007	Magnetic Dip: -71.862°
Grid Coordinate System: GDA94/MGA94 Zone 54	Declination Date: May 25, 2008
Location Lat/Long: S 41 20 27.251, E 144 14 3.191	Magnetic Declination Model: BGGM 2007
Location Grid N/E Y/X: N 5418350.400 m, E 770615.100 m	North Reference: Grid North
Grid Convergence Angle: -2.13761870°	Total Corr Mag North -> Grid North: +14.591°
Grid Scale Factor: 1.00050136	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5418350.40	770615.10	S 41 20 27.251	E 144 14 3.191
	625.22	0.78	111.45	625.20	4.26	-1.56	3.96	0.04	5418348.84	770619.06	S 41 20 27.297	E 144 14 3.364
	653.95	0.79	307.22	653.93	4.26	-1.51	3.99	1.62	5418348.89	770619.09	S 41 20 27.295	E 144 14 3.365
	682.81	0.66	70.44	682.79	4.19	-1.33	3.98	1.33	5418349.07	770619.09	S 41 20 27.290	E 144 14 3.365
	711.59	0.76	163.99	711.57	4.43	-1.46	4.19	1.08	5418348.94	770619.29	S 41 20 27.293	E 144 14 3.374
	769.05	0.69	31.48	769.03	4.72	-1.53	4.48	0.69	5418348.87	770619.58	S 41 20 27.295	E 144 14 3.386
	797.65	0.62	126.90	797.62	4.90	-1.48	4.69	1.02	5418348.92	770619.79	S 41 20 27.293	E 144 14 3.395
	826.52	1.42	110.88	826.49	5.41	-1.70	5.15	0.87	5418348.70	770620.25	S 41 20 27.300	E 144 14 3.416
	855.24	1.18	327.80	855.21	5.53	-1.58	5.33	2.58	5418348.82	770620.43	S 41 20 27.296	E 144 14 3.423
	884.16	0.61	113.14	884.12	5.44	-1.38	5.31	1.78	5418349.02	770620.41	S 41 20 27.290	E 144 14 3.422
	913.05	0.58	214.02	913.01	5.56	-1.57	5.37	0.95	5418348.83	770620.47	S 41 20 27.295	E 144 14 3.425
	941.83	0.70	74.64	941.79	5.67	-1.64	5.46	1.25	5418348.76	770620.56	S 41 20 27.298	E 144 14 3.429
	970.76	0.64	91.36	970.72	5.96	-1.60	5.79	0.21	5418348.80	770620.89	S 41 20 27.296	E 144 14 3.443
	999.56	0.80	139.54	999.52	6.29	-1.75	6.08	0.63	5418348.65	770621.18	S 41 20 27.301	E 144 14 3.456
	1028.45	0.46	115.68	1028.41	6.59	-1.96	6.31	0.44	5418348.44	770621.42	S 41 20 27.307	E 144 14 3.466
	1057.36	0.62	109.10	1057.32	6.86	-2.06	6.57	0.18	5418348.34	770621.67	S 41 20 27.310	E 144 14 3.477
	1086.13	0.59	71.18	1086.08	7.13	-2.06	6.85	0.41	5418348.34	770621.96	S 41 20 27.310	E 144 14 3.489
	1115.06	0.67	143.53	1115.01	7.38	-2.15	7.10	0.77	5418348.25	770622.20	S 41 20 27.312	E 144 14 3.500
	1144.00	0.68	139.77	1143.95	7.68	-2.42	7.31	0.05	5418347.98	770622.41	S 41 20 27.321	E 144 14 3.509
	1172.93	0.58	138.87	1172.88	7.96	-2.66	7.51	0.10	5418347.74	770622.62	S 41 20 27.328	E 144 14 3.519
	1201.85	0.45	160.27	1201.80	8.17	-2.88	7.65	0.24	5418347.52	770622.75	S 41 20 27.335	E 144 14 3.525
	1230.68	0.67	137.73	1230.63	8.40	-3.11	7.80	0.32	5418347.29	770622.90	S 41 20 27.342	E 144 14 3.532
	1259.58	0.29	168.59	1259.53	8.59	-3.30	7.93	0.46	5418347.10	770623.03	S 41 20 27.349	E 144 14 3.538
	1288.49	0.11	130.28	1288.44	8.66	-3.39	7.96	0.22	5418347.01	770623.07	S 41 20 27.351	E 144 14 3.539
	1317.41	0.23	108.83	1317.36	8.74	-3.43	8.04	0.14	5418346.97	770623.14	S 41 20 27.353	E 144 14 3.543
	1346.30	0.29	95.15	1346.25	8.87	-3.45	8.17	0.09	5418346.94	770623.27	S 41 20 27.353	E 144 14 3.548
	1375.23	0.41	87.00	1375.17	9.03	-3.46	8.34	0.13	5418346.94	770623.45	S 41 20 27.353	E 144 14 3.556
	1398.40	0.32	101.81	1398.34	9.17	-3.46	8.49	0.17	5418346.93	770623.60	S 41 20 27.353	E 144 14 3.562
	1436.48	0.21	345.43	1436.42	9.23	-3.42	8.58	0.36	5418346.98	770623.68	S 41 20 27.352	E 144 14 3.566
	1466.32	0.29	343.15	1466.26	9.15	-3.29	8.54	0.08	5418347.10	770623.65	S 41 20 27.348	E 144 14 3.564
	1523.81	0.26	327.52	1523.75	8.96	-3.04	8.43	0.04	5418347.35	770623.53	S 41 20 27.340	E 144 14 3.559
	1552.31	0.15	306.71	1552.25	8.87	-2.97	8.37	0.14	5418347.43	770623.47	S 41 20 27.337	E 144 14 3.556
	1610.49	0.20	273.09	1610.43	8.70	-2.92	8.20	0.06	5418347.48	770623.31	S 41 20 27.336	E 144 14 3.549
	1667.70	0.10	327.45	1667.64	8.56	-2.87	8.08	0.09	5418347.53	770623.18	S 41 20 27.334	E 144 14 3.543
	1753.02	0.15	85.88	1752.96	8.60	-2.80	8.15	0.08	5418347.60	770623.25	S 41 20 27.332	E 144 14 3.546
	1782.05	0.17	30.71	1781.99	8.64	-2.76	8.21	0.15	5418347.64	770623.31	S 41 20 27.331	E 144 14 3.549
	1811.44	0.22	22.53	1811.38	8.65	-2.67	8.25	0.06	5418347.73	770623.36	S 41 20 27.328	E 144 14 3.550
	1840.13	0.41	23.27	1840.07	8.65	-2.52	8.31	0.20	5418347.87	770623.42	S 41 20 27.323	E 144 14 3.553
	1896.95	0.36	21.42	1896.89	8.65	-2.17	8.46	0.03	5418348.23	770623.56	S 41 20 27.311	E 144 14 3.558
	1928.28	0.40	341.32	1928.22	8.58	-1.98	8.46	0.25	5418348.42	770623.56	S 41 20 27.305	E 144 14 3.558
	1960.02	0.46	333.87	1959.96	8.41	-1.76	8.37	0.08	5418348.64	770623.47	S 41 20 27.298	E 144 14 3.554
	1988.76	0.36	339.99	1988.70	8.26	-1.57	8.29	0.11	5418348.83	770623.39	S 41 20 27.292	E 144 14 3.550
	2017.29	0.35	330.35	2017.23	8.14	-1.41	8.21	0.06	5418348.99	770623.32	S 41 20 27.287	E 144 14 3.547
	2046.82	0.40	345.32	2046.76	8.00	-1.23	8.14	0.11	5418349.17	770623.25	S 41 20 27.281	E 144 14 3.543
	2076.60	0.30	339.19	2076.54	7.89	-1.06	8.09	0.11	5418349.34	770623.19	S 41 20 27.276	E 144 14 3.541
	2105.86	0.28	331.18	2105.80	7.78	-0.92	8.03	0.05	5418349.48	770623.13	S 41 20 27.271	E 144 14 3.538
	2163.31	0.34	338.86	2163.24	7.55	-0.64	7.90	0.04	5418349.76	770623.00	S 41 20 27.262	E 144 14 3.532
	2192.25	0.32	344.83	2192.18	7.45	-0.48	7.84	0.04	5418349.92	770622.95	S 41 20 27.257	E 144 14 3.529

2219.96	0.41	332.65	2219.89	7.32	-0.32	7.78	0.13	5418350.08	770622.88	S 41 20 27.252	E 144 14 3.526
2278.23	0.35	333.64	2278.16	7.03	0.03	7.60	0.03	5418350.43	770622.71	S 41 20 27.241	E 144 14 3.518
2335.93	0.45	317.58	2335.86	6.69	0.35	7.37	0.08	5418350.75	770622.48	S 41 20 27.231	E 144 14 3.508
2421.85	0.36	319.82	2421.78	6.15	0.81	6.97	0.03	5418351.21	770622.07	S 41 20 27.217	E 144 14 3.490
2508.06	0.43	323.34	2507.99	5.63	1.27	6.60	0.03	5418351.67	770621.71	S 41 20 27.202	E 144 14 3.473
2594.16	0.37	325.91	2594.08	5.13	1.76	6.25	0.02	5418352.16	770621.36	S 41 20 27.187	E 144 14 3.457
2768.83	0.44	309.07	2768.75	4.01	2.65	5.42	0.02	5418353.05	770620.52	S 41 20 27.159	E 144 14 3.420
2827.34	0.37	280.23	2827.26	3.61	2.83	5.06	0.11	5418353.23	770620.16	S 41 20 27.154	E 144 14 3.404
2940.58	0.37	309.92	2940.50	2.91	3.13	4.42	0.05	5418353.53	770619.52	S 41 20 27.145	E 144 14 3.376
3061.80	0.42	338.67	3061.71	2.23	3.79	3.96	0.05	5418354.19	770619.06	S 41 20 27.124	E 144 14 3.355

Survey Type: Non-Def Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (m)

MD To (m)

EOU Freq Survey Tool Type

Borehole -> Survey

0.00

596.70

Act-Stns SLB_EMS-STD-Depth Only

Jarver 1 -> Jarver-1 Surveys

596.70

1398.40

Act-Stns SLB_EMS-STD

Jarver 1 -> Jarver-1 Surveys

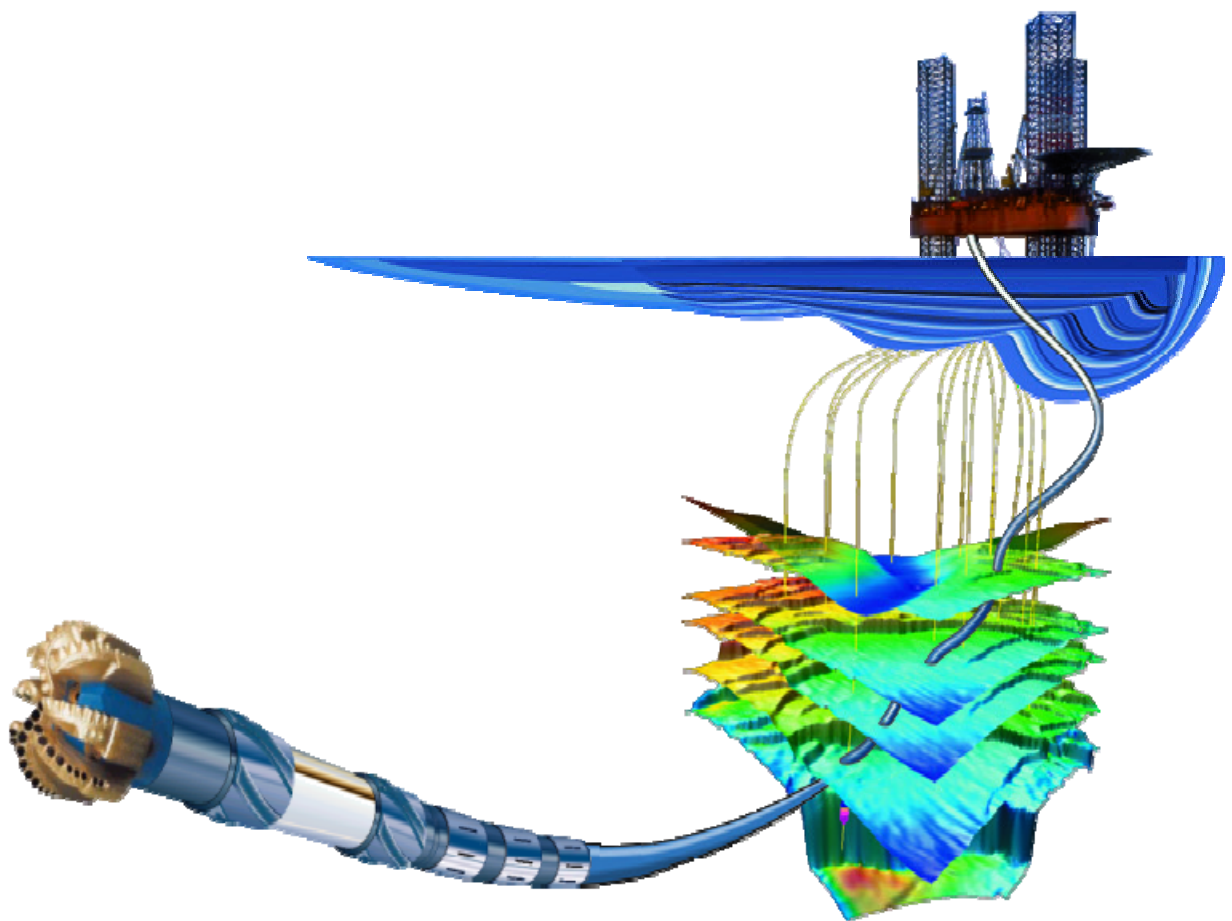
1398.40

3061.80

Act-Stns SLB_MWD-STD

Jarver 1 -> Jarver-1 Surveys

3. Drilling & MWD/LWD Run Summary



End of Well Drilling Summary

29th May 2008 to 5th June 2008

Jarver-1 Objectives:

Jarver-1 will be drilled by the semi-submersible mobile offshore drilling unit (MODU) Ocean Patriot which is operated by the Diamond Offshore General Company (DOGC).

Logistical support for drilling operations will be from the port of Burnie in Tasmania.

Jarver-1 is proposed as a vertical frontier wildcat well to test the hydrocarbon potential of a 4-way dip closure, with top seal provided by the Belfast Mudstone. The target formations are the Lower Belfast Fm (primary target 2902 m RT) and the Paaratte Fm (secondary target 2167 m RT).

BHA # 1: Rotary Assembly**660.4mm - 26" Hole Section (645m MD – 1407m MD)**

The following Rotary Assembly was made up and run in: -

- 26" Milled Tooth Rock Bit (Type: Smith, Jets: 4 x 24)
- 9 ¼" Bit Sub w/ Solid Float
- 9 ¼" Anderdrift w/ Totco Ring on top
- 3 x 9 ½" Drill Collars
- Crossover
- 8 ¼" NM Drill Collar
- 5 x 8" Drill Collars
- Crossover
- 15 x 5" HWDP
- 5" DP to surface

Drilling Summary

The 26" section was drilled vertically using the above rotary BHA. Top of cement was tagged at 642m, and drilling proceeded uninterrupted to a section TD of 1407m. Schlumberger D&M personnel were not present for the drilling of the 26" section.

MWD/LWD Summary

The 26" section of Jarver-1 was drilled without the use of Schlumberger MWD/LWD tools. On completion of drilling, however, an Electronic Multi Shot was dropped down the drillstring to sit on top of the Totco ring. While tripping out, inclination surveys were recorded every one stand of drillpipe up to the 30" casing shoe.

The EMS performed as expected. Survey data was successfully dumped upon arrival at the surface and provided to the client.

BHA # 2: Rotary Assembly**444.5mm – 17 ½" Hole Section (1381m MD – 1385m MD)**

The following Rotary Assembly was made up and run in: -

17 ½" Milled Tooth Rock Bit (Type: Hughes Christensen MXL-T1V Fastmax,
Jets: 2 x 24, 1 x 15, 1 x 14)
17 ¼" NB Stabilizer
8 ¼" Pony Drill Collar
17 ¼" Stabilizer
8 ¼" Lower Saver Sub
8 ¼" ARC
8 ¼" Lower Saver Sub
8 ½" TeleScope HF MWD
8 ¼" Upper Saver Sub
8 ¼" Crossover
17 ¼" Stabilizer
8 ¼" NM Drill Collar
8 x 8 ¼" Drill Collars
8 ¼" Jars
2 x 8 ¼" Drill Collars
Crossover
15 x 5" HWDP
5" DP to surface

Drilling Summary

The above BHA was made up and ran in hole. Tagged the top of cement at 1381m and continued to drill out the float. We were unable to drill. At 1385m, a decision was made to POOH for the bit.

On the surface, the bit was observed to have some float wedged in between the cones. The bit had a grading of 8 – 8 – BU – A – 0 – 1 – CD.

MWD/LWD Summary

The 17 ½" hole was drilled with a TeleScope* MWD tool to provide D&I surveying services (azimuth and inclination). The TeleScope was programmed with a 12Hz/6bps QPSK telemetry configuration, to enable the transmission of real-time data uphole.

The arcVISION* LWD tool acquired Formation Gamma Ray and Induction Resistivity Formation Evaluation measurements with 6 second record rates.

A successful shallow hole test was conducted prior to RIH to principally test the LTB (low speed tool bus) connectivity and tool functionality.

Following tagging the top of the cement at 1381mMDRT, and displacement to PHPG WBM drilling fluid, attempts to drill out the shoe track were unsuccessful. The decision was made to POOH due to suspected bit problems. Inspection of the bit at surface, confirmed extensive damage and pieces of float wedged between the roller cones.

Intermittent stick slip severity of up to 200% was observed whilst attempting to drill out the shoe track. Axial shocks did not exceed 40 Gs. However, both TeleScope* and arcVISION* tools performed as expected.

Tools were racked back on surface, in preparation to be re-run. No tool recorded mode data was downloaded on surface due to being inside casing.

BHA # 3: Rotary Assembly**444.5mm – 17 ½" Hole Section (1385m MD – 1947m MD)**

The following Rotary Assembly was made up and run in: -

17 ½" Milled Tooth Rock Bit (Type: Hughes Christensen MXL-T1V Fastmax,
Jets: 2 x 24, 1 x 15, 1 x 14)
17 ¼" NB Stabilizer
8 ¼" Pony Drill Collar
17 ¼" Stabilizer
8 ¼" Lower Saver Sub
8 ¼" ARC
8 ¼" Lower Saver Sub
8 ½" TeleScope HF MWD
8 ¼" Upper Saver Sub
8 ¼" Crossover
17 ¼" Stabilizer
8 ¼" NM Drill Collar
8 x 8 ¼" Drill Collars
8 ¼" Jars
2 x 8 ¼" Drill Collars
Crossover
15 x 5" HWDP
5" DP to surface

Drilling Summary

After a new bit was connected, the BHA was RIH to drill out the shoe. After drilling shoe and cleaning up rat hole to 1407m, 3m formation were drilled from 1407m to 1410m. Circulate bottoms up with 1000 gpm and tools were pulled back inside shoe prior to perform Leak off Test.

We drilled ahead with no problems. There was very little stick and slip and shocks observed on this run. We reached section TD and circulated bottoms up for 3hrs and then began to POOH. On the surface the bit was graded 0 – 1 – CT – G – E – I – ER.

MWD/LWD Summary

The same TeleScope* and arcVISION* tools from the previous run were re-run in this BHA.

A successful shallow hole test was conducted prior to RIH to principally test the LTB (low speed tool bus) connectivity and tool functionally.

No ensuing problems were encountered whilst drilling out the rest of the shoe track and commenced drilling new formation until TD of 1947mMDRT. No axial shocks were detected in the run and stick slip severity whilst drilling out the shoe track intermittently peaked at 150%.

All tools performed as expected for the run. ROP averaged between 20-30m/hr, this allowed for a generous data density in both real-time and recorded mode logs Resistivity logs.

BHA # 4: Steerable Motor Assembly**311.1mm - 12 ¼" Hole Section – Directional (1913m MD – 3062m MD)**

The following Steerable Assembly was made up and run in: -

- 12 ¼" PDC Bit (Type: Hughes Christensen, HC506ZX, Jets: 6 x 16)
- 9 5/8" PowerPak Motor
- Float Sub
- 12 ¼" Stabilizer
- 8 ¼" Lower Saver Sub
- 8 ¼" ARC
- 8 ¼" Lower Saver Sub
- 8 ½" TeleScope HF MWD
- 8 ¼" Upper Saver Sub
- 8 ¼" sonicVISION
- 8 ¼" Upper Saver Sub
- 8 ¼" ADN with 12" Stabilizer
- 8 ¼" Upper Saver Sub
- 8 x 8 ¼" Drill Collars
- 8 ¼" Jars
- 2 x 8 ¼" Drill Collars
- Crossover
- 15 x 5" HWDP
- 5" DP to surface

Drilling Summary

Made up the above BHA and ran in hole. Connected topdrive and washed down from 1860m. Tagged the top of cement at 1913m and the shoe was drilled out at 1930m. After which, 3m of new formation was drilled from 1947m to 1950m. Circulate bottoms up with 900 gpm and tools were pulled back inside shoe prior to perform Leak Off Test.

Drilling commenced with low RPM, and WOB until the BHA was in the new formation at 2043m. There were not significant shocks or stick and slip observed during the run. Some hard stringers were encountered and the surface RPM was reduced to preserve bit life.

At 3062m, TD was called and began to circulate bottoms up for 3 hours. At the surface the BHA was laid out and the bit was graded as 0 – 1 – WT – S – X – 1 – NO – TD.

MWD/LWD Summary

The 12 ¼" hole was drilled with a TeleScope* MWD tool to provide D&I surveying services (azimuth and inclination). The TeleScope was programmed with a 12Hz/6bps QPSK telemetry configuration, to enable the transmission of real-time data uphole.

The arcVISION* LWD tool acquired Formation Gamma Ray and Induction Resistivity Formation Evaluation measurements with 6 second record rates.

The Stabilized adnVISION* LWD tool acquired Bulk Density and Neutron Porosity Formation Evaluation measurements with 4 second record rates. The Ultrasonic Caliper was also utilized for caliper measurements for this run, with a record rate of 20 seconds.

The sonicVISION* LWD tool acquired Compressional and Shear Delta-T Formation Evaluation measurements with 10 second record rates. A 1 second acquisition tripping configuration was provided as a contingency for down linking to acquire a log on the trip out of hole.

A shallow hole test was conducted prior to loading the radioactive source to principally test LTB (low speed tool bus) connectivity. After conducting the successful shallow hole test the radioactive source was loaded and a second shallow hole test was conducted to ensure accuracy of sadnVISION* nuclear measurements and real-time tool communications. However, sadnVISION* indicated no real-time communications with the rest of the MWD/LWD tools in the BHA. Consequently, sadnVISION* was POOH to surface and the radioactive source unloaded. The connection between sonicVISION* and sadnVISION* was broken out and real-time LTB connectors on both tools were thoroughly cleaned. The tools were made backup, radioactive source re-loaded and a successful shallow hole with good LTB connectivity ensued. The tools were then RIH.

All tools performed as expected throughout the run. The ROP for this run averaged around 30-60m/hr, rarely exceeding 80m/hr. Subsequently this allowed for a generous data density in both real-time and recorded mode logs.

Signal strength remained high and surveys were principally taken on first attempts throughout the run. The signal was demodulated using differential demodulation between SPT 1 and SPT2 creating a high signal to noise ratio. Therefore, only minor signal issues were experienced. Pump harmonics were abated from the signal band-width on a couple of occasions, by staggering pump strokes.

'Tool H' remained consistently out of tolerance of Field Acceptance Criteria (FAC) by 10 counts for the run (1236.26 +/- 6), due to drill-string magnetic interference.

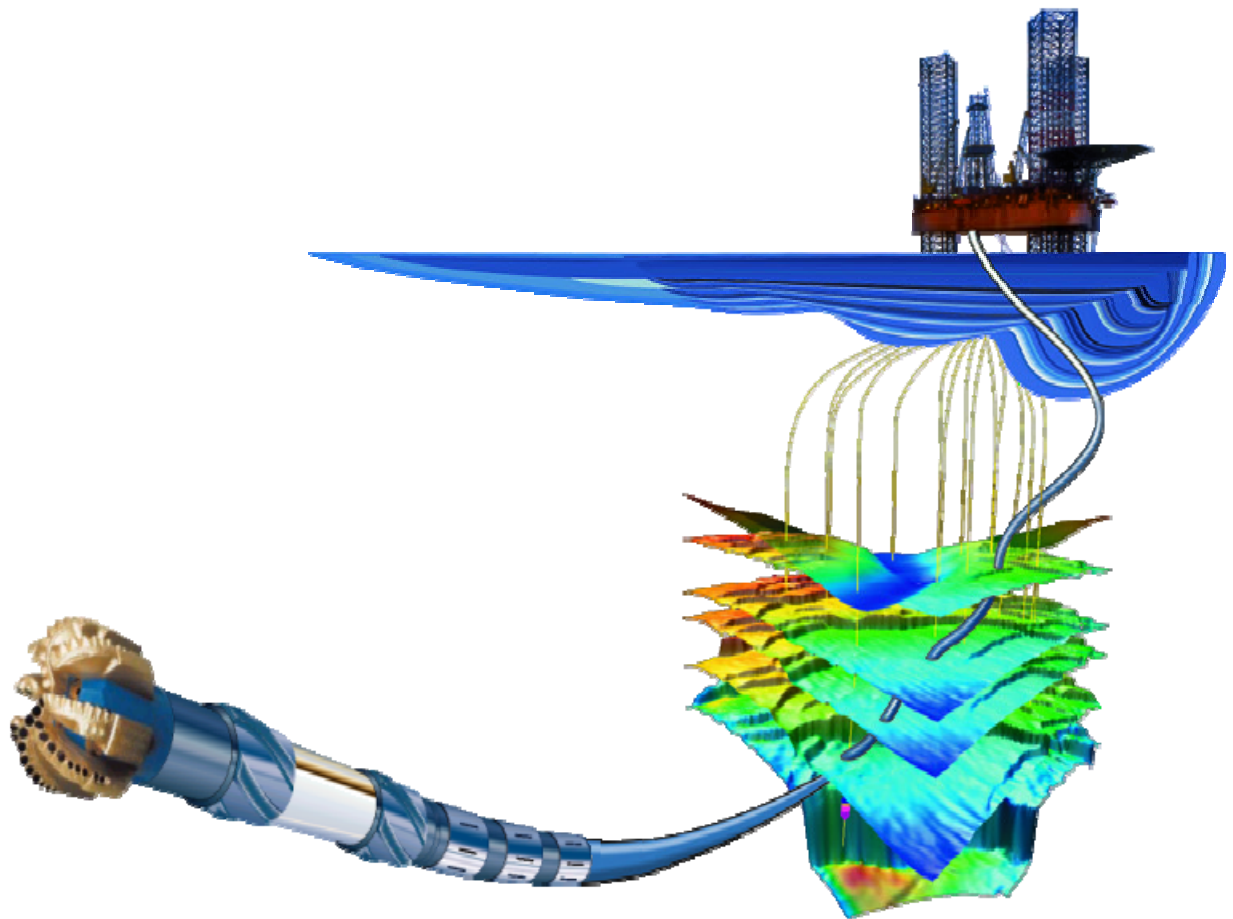
Run TD was called at 3062mMDRT due to drilling into the K75 Eumeralla basement structure. All tools were laid out and downloaded on deck.

MWD/LWD Run Summary

Run	Hole Size (in)	MWD/LWD Services	Start Depth (m)	End Depth (m)	Distance (m)	Run Start Date	Run End Date
1	26"	EMS	645.00	1407.00	762.00	18-May-08	20-May-08
2	17 ½"	VISION Resistivity	1381.00	1385.00	4.00	26-May-08	27-May-08
3	17 ½"	VISION Resistivity	1385.00	1947.00	562.00	28-May-08	29-May-08
4	12 ¼"	VISION – sonicVISION Service	1913.00	3062.00	1149.00	1-Jun-08	4-Jun-08

Run	BRT Hours	Drilling Hours	Circulating Hours	Max Temp (degC)	Trip for MWD	Failure type
1	27.25	12.50	16.50	17.00	No	N/A
2	43.50	26.50	31.50	30.00	No	N/A
3	81.00	36.41	48.50	44.72	No	N/A

4. BHA Reports



BHA Data Sheet

Santos - Jarver-1

BHA #	12-1/4"#1 Motor-ARC-MWD-SON-ADN8-Pri	Date	May 31, 2008
Field	Santos/Jarver	Well	Jarver-1
Structure	Jarver-1	Borehole	Jarver 1

Item	Name	Vendor/ Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	12 1/4 " Bit	Hughes Christensen	7012701		8.00	12.25		0.38	0.38
		HC506ZX			3.25		6.63 Reg Pin		
2	A962M7848GT	Schlumberger	06259		9.63	12.25	6.63 Reg Box	9.68	10.06
		A962M7848GT			2.25		6.63 Reg Box		
3	Float Sub	Schlumberger	WFD2316		8.25	8.25	6.63 Reg Pin	0.92	10.98
	w/ non-ported float valve				3.50		6.63 Reg Box		
4	12 1/4" Stabilizer	Schlumberger	OSS061107	8.19	8.25	12.25	6.63 Reg Pin	2.45	13.43
				1.00	2.88		6.63 Reg Box		
5	Lower Saver Sub	Schlumberger	ASQ8008		8.25	8.25	6.63 Reg Pin	0.38	13.81
					3.00		6.63 FH Pin		
6	ARC-8	Schlumberger	2724		8.13	9.10	6.63 FH Box	5.53	19.34
		ARC-8			3.00		6.63 FH Box		
7	Lower Saver Sub	Schlumberger	SB03181		8.25	12.13	6.63 FH Pin	0.37	19.71
					3.00		6.63 FH Box		
8	TeleScope HF	Schlumberger	FB46		8.25	8.41	6.63 FH Pin	7.56	27.27
	600 - 1200 GPM	TeleScope HF			2.88		6.63 FH Box		
9	Upper Saver Sub	Schlumberger	OSS060087C		8.25	8.25	6.63 FH Pin	0.47	27.74
					3.00		6.63 FH Pin		
10	sonicVISION 825	Schlumberger	FE75	8.38	8.38	12.00	6.63 FH Box	7.76	35.50
		sonicVISION 825		1.32	4.25		6.63 FH Box		
11	Upper Saver Sub	Schlumberger	ASQ8013		8.38	8.44	6.63 FH Pin	0.34	35.84
					4.75		6.63 FH Pin		
12	ADN-8 w/ 12" Stab	Schlumberger	42730	8.38	8.38	12.00	6.63 FH Box	6.36	42.20
		ADN-8 w/ 12" Stab		2.10	3.50		6.63 FH Box		
13	Upper Saver Sub	Schlumberger	2986	8.25	8.38	8.38	6.63 FH Pin	2.51	44.71
				2.06	3.50		6.63 Reg Box		
14	8" Drill Collar (8 joints)	RIG			8.00	8.00	6.63 Reg Pin	75.47	120.18
					2.88		6.63 Reg Box		
15	Drilling Jar	Smith International	489070		8.25	8.25	6.63 Reg Pin	9.59	129.77
		Hydraulic			3.00		6.63 Reg Box		
16	8" Drill Collar (2 joints)	RIG			8.00	8.00	6.63 Reg Pin	18.91	148.68
					2.88		6.63 Reg Box		
17	Crossover	Rig	GVD12204		8.13	8.13	6.63 Reg Pin	1.09	149.77
	6 5/8" Reg Pin to 4 1/2" IF Box				3.00		4.50 IF Box		
18	5" HWDP (15 joints)	RIG			6.25	6.63	4.50 IF Pin	139.62	289.39
					3.00		4.50 IF Box		
19	5" 19.50 S-135	RIG			5.00	6.63	4.50 IF Pin	10.00	299.39
	5.19.5,Premium S135				4.28		4.50 IF Box		
						Total Weight (lbf)	94902	Total Len.	299.39
						Below Jar (lbf)	59120.0		

BHA Comments:	

Stabilizer	
Blade Length (m)	Mid-Pt. To Bit (m)
0.28	1.28
0.60	12.10
0.35	28.10
0.95	37.09
1.06	39.37
	Bend To Bottom
Bent Housing Angle (deg)	Connection (m)

Sensor	
Type	Distance To Bit (m)
Resistivity	16.20
Gamma Ra	16.28
D&I	23.78
Sonic	32.88
Density	38.76
Neutron	40.97

Bit Nozzles	
Count	Size(1/32 in)
6	16.00
TFA (in2)	1.18
Quality Control	
Created By:	Daniel Priestley
Checked By:	

Santos

**Santos
Jarver-1
Jarver-1
Santos/Jarver
Jarver 1**

12-1/4"#1 Motor-ARC-MWD-SON-ADN8-Primary BHA

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
12 1/4 " Bit	0.38	12.25	3.25	12.25
A962M7848GT	9.68	9.63	2.25	12.25
Float Sub	0.92	8.25	3.50	8.25
12 1/4" Stabilizer	2.45	8.25	2.88	12.25
Lower Saver Sub	0.38	8.25	3.00	8.25
ARC-8	5.53	8.13	3.00	9.10
Lower Saver Sub	0.37	8.25	3.00	12.13
TeleScope HF	7.56	8.25	2.88	8.41
Upper Saver Sub	0.47	8.25	3.00	8.25
sonicVISION 825	7.76	8.38	4.25	12.00
Upper Saver Sub	0.34	8.38	4.75	8.44
ADN-8 w/ 12" Stab	6.36	8.38	3.50	12.00
Upper Saver Sub	2.51	8.38	3.50	8.38
8" Drill Collar (8 joints)	75.47	8.00	2.88	8.00
Drilling Jar	9.59	8.25	3.00	8.25
8" Drill Collar (2 joints)	18.91	8.00	2.88	8.00
Crossover	1.09	8.13	3.00	8.13
5" HWDP (15 joints)	139.62	6.25	3.00	6.63
5" 19.50 S-135	10.00	5.00	4.28	6.63

DRILLING OVERVIEW

Depth in:	1947.00 m	Depth out:	3062.00 m
Inclination in:	0.40°	To:	0.42°
Direction in:	341.32°	To:	309.92°
Total Drilled	1115.00 m	Dogleg:	0.25

Cum. Len. (m)

5" 19.50 S-135

289.39

5" HWDP (15 joints)

289.39

Crossover

149.77

8" Drill Collar (2 joints)

148.68

Drilling Jar

129.77

8" Drill Collar (8 joints)

120.18

Upper Saver Sub

44.71

ADN-8 w/ 12" Stab

42.20

Upper Saver Sub

35.84

sonicVISION 825

35.50

Upper Saver Sub

27.74

TeleScope HF

27.27

Lower Saver Sub

19.71

ARC-8

19.34

Lower Saver Sub

13.81

12 1/4" Stabilizer

13.43

Float Sub

10.98

A962M7848GT

10.06

12 1/4 " Bit

0.38

Schlumberger

Quality Control

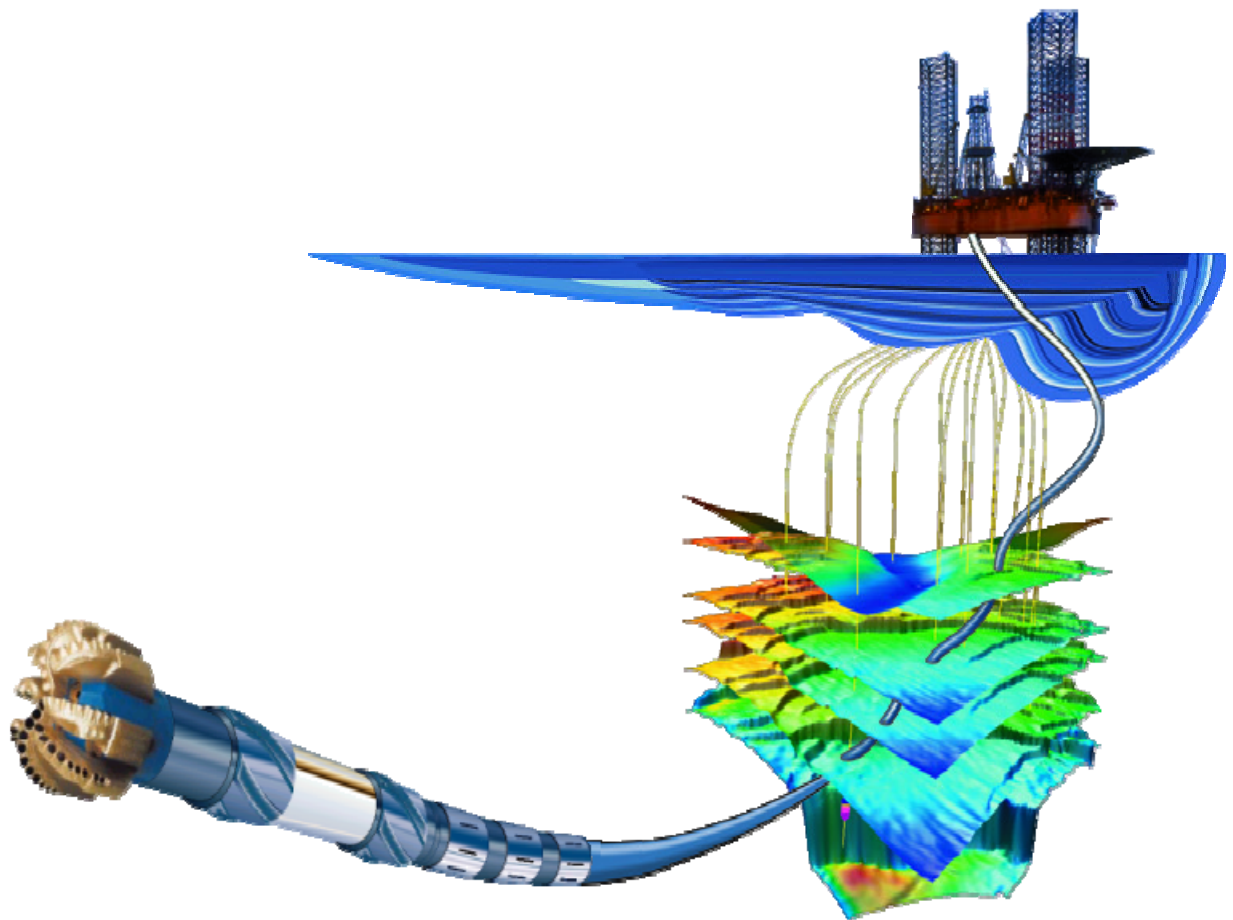
Created by: Daniel Priestle Date:

6/5/2008

Checked by:

Date:

5. Drilling Parameter Sheets





Slide Sheet

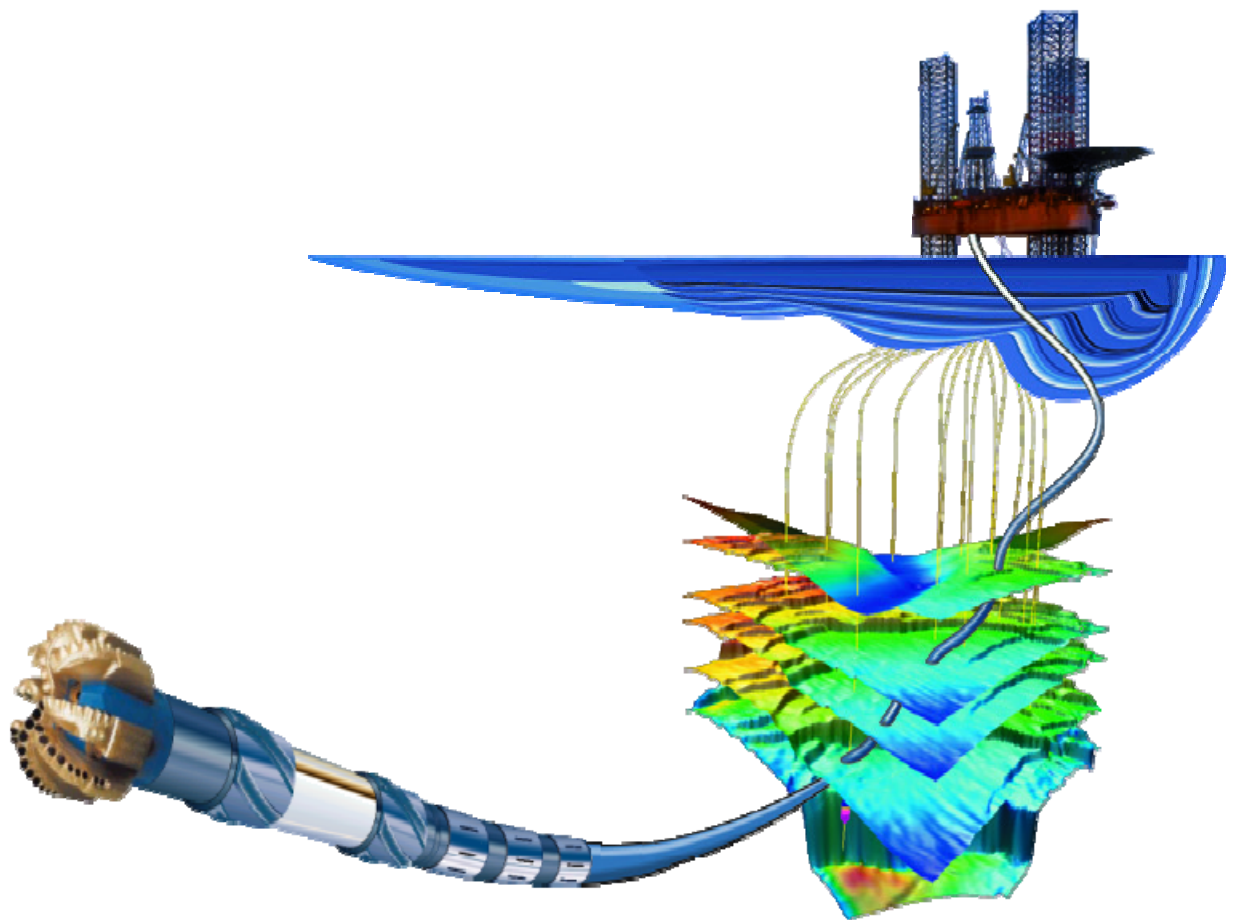


BHA: 12-1/4" #1 Motor-ARC-MWD-SON-ADN8-Primary BHA

Client: Santos		Well: Jarver-1		Directional Driller: Daniel Priestley	
Field: Santos/Jarver		Borehole: Jarver 1		Directional Driller:	
Structure: Jarver-1		UWI/API#: Well-807506		Job #: 08ASQ0002	
Depth In: 1713.00		Tot Distance: 1349.00		Total Time: 40.2	
Inclination In: 0.15		SLIDE: 0.00		Time: 0.0	
Azimuth In: 85.88		ROTATE: 1349.00		40.2	
		% SLIDE 0.0		Total ROP: 33.5	
		% ROTAT 100.0		ROTATE ROP: 33.5	
Comments:					

Statistics:																					
None		None	Min	Max	Sum	None	Min	Max	Avg	None	None	Max	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Max	Avg
			02-06-08 04:14	04-06-08 07:28	40.250		1713.00	3062.00	45.3				880	3551	3428	163	99	12.5	4.4	2940.58	0.35
Comment	Deflection Tool	Start Time (m/d/yy h:mm)	End Time (m/d/yy h:mm)	Duration (hr)	Row Type	Md From (m)	Md To (m)	Calc ROP (m/hr)	Orienting Method	TF Angle (°)	TF Mode (G/M)	Flow (gpm)	SPP On Bot (psi)	SPP Off Bot (psi)	Delta P (psi)	RPM (c/min)	WOB (1000 lbf)	Torque (1000 ft.lbf)	Svy Md (m)	Incl (°)	Azmth (°)
Tag cement & drill out float.	PDM	02-06-08 04:14	02-06-08 07:30	3.267	SUM	1713.00	1940.00	69.5	ROTATE	0.0	G	900	2823	2765	58	45	1.0	3.3	1928.28	0.40	341.32
Drill through shoe.	PDM	02-06-08 07:39	02-06-08 07:58	0.317	SUM	1940.00	1947.00	22.1	ROTATE	0.0	G	900	2843	2773	70	45	1.0	3.0			
Drill 3 meters new formation.	PDM	02-06-08 07:58	02-06-08 08:08	0.167	SUM	1947.00	1950.00	18.0	ROTATE	0.0	G	900	2805	2775	30	45	1.0	4.1			
Crulate bottoms up, perform LOT.	PDM	02-06-08 08:08	02-06-08 09:31	1.383	SUM	1950.00	1951.00	0.7	ROTATE	0.0	G	900	2860	2860	0	45	0.0	1.0			
	PDM	02-06-08 10:49	02-06-08 11:04	0.250	SUM	1951.00	1956.00	20.0	ROTATE	0.0	G	700	1854	1800	54	90	10.0	4.7			
	PDM	02-06-08 11:13	02-06-08 11:55	0.700	SUM	1956.00	1985.00	41.4	ROTATE	0.0	G	800	2665	2415	250	100	8.0	8.3	1960.02	0.46	333.87
	PDM	02-06-08 12:05	02-06-08 12:54	0.817	SUM	1985.00	2014.00	35.5	ROTATE	0.0	G	820	2692	2594	98	100	5.0	5.5	1988.76	0.36	339.99
	PDM	02-06-08 13:04	02-06-08 13:27	0.383	SUM	2014.00	2040.00	67.8	ROTATE	0.0	G	830	2784	2705	79	100	10.0	7.5	2017.29	0.35	330.35
	PDM	02-06-08 13:27	02-06-08 13:33	0.100	SUM	2040.00	2043.00	30.0	ROTATE	0.0	G	830	2930	2782	148	110	2.0	10.4			
	PDM	02-06-08 13:45	02-06-08 14:17	0.533	SUM	2043.00	2061.00	33.8	ROTATE	0.0	G	820	2870	2771	99	120	8.0	9.9	2046.82	0.40	345.32
	PDM	02-06-08 14:02	02-06-08 14:17	0.250	SUM	2061.00	2072.00	44.0	ROTATE	0.0	G	840	3015	2871	144	120	9.0	12.8			
	PDM	02-06-08 14:28	02-06-08 15:05	0.617	SUM	2072.00	2101.00	47.0	ROTATE	0.0	G	830	2956	2857	99	120	15.0	7.9	2076.60	0.30	339.19
	PDM	02-06-08 15:20	02-06-08 15:56	0.600	SUM	2101.00	2130.00	48.3	ROTATE	0.0	G	840	3163	2963	200	120	11.0	8.3	2105.86	0.28	331.18
	PDM	02-06-08 16:09	02-06-08 16:51	0.700	SUM	2130.00	2159.00	41.4	ROTATE	0.0	G	850	3406	3127	279	120	6.0	5.2			
	PDM	02-06-08 17:03	02-06-08 17:49	0.767	SUM	2159.00	2188.00	37.8	ROTATE	0.0	G	860	3193	2844	349	120	18.0	0.0	2163.31	0.34	338.86
Slowed flow rate due to losses over the shakers.	PDM	02-06-08 18:12	02-06-08 19:24	1.200	SUM	2188.00	2201.00	10.8	ROTATE	0.0	G	870	3286	3120	166	120	20.0	12.1	2192.25	0.32	344.83
	PDM	02-06-08 19:24	02-06-08 20:07	0.717	SUM	2201.00	2217.00	22.3	ROTATE	0.0	G	900	3676	3527	149	140	20.0	3.6			
	PDM	02-06-08 20:19	02-06-08 20:42	0.383	SUM	2217.00	2220.00	7.8	ROTATE	0.0	G	900	3782	3641	141	140	13.0	10.3	2219.96	0.41	332.65
	PDM	02-06-08 20:42	02-06-08 21:38	0.933	SUM	2220.00	2246.00	27.9	ROTATE	0.0	G	900	3716	3630	86	50	18.0	9.7			
	PDM	02-06-08 22:13	02-06-08 22:50	0.617	SUM	2246.00	2274.00	45.4	ROTATE	0.0	G	890	3714	3533	181	50	17.0	9.3			
	PDM	02-06-08 23:04	02-06-08 23:43	0.650	SUM	2274.00	2303.00	44.8	ROTATE	0.0	G	890	3775	3646	129	50	12.0	8.5	2278.23	0.35	333.64
Recycle pumps for survey.	PDM	03-06-08 00:03	03-06-08 01:10	1.117	SUM	2303.00	2332.00	26.0	ROTATE	0.0	G	900	3822	3642	180	50	16.0	11.1			
	PDM	03-06-08 01:40	03-06-08 02:25	0.750	SUM	2332.00	2361.00	38.7	ROTATE	0.0	G	890	3743	3600	143	50	15.0	9.6	2335.93	0.45	317.58
	PDM	03-06-08 02:43	03-06-08 03:29	0.767	SUM	2361.00	2389.00	36.5	ROTATE	0.0	G	900	3757	3650	107	50	12.0	9.1			
	PDM	03-06-08 03:48	03-06-08 04:39	0.850	SUM	2389.00	2418.00	34.1	ROTATE	0.0	G	900	3680	3604	76	50	16.0	9.0			
	PDM	03-06-08 04:52	03-06-08 05:27	0.583	SUM	2418.00	2447.00	49.7	ROTATE	0.0	G	900	3698	3546	152	50	18.0	11.3	2421.85	0.36	319.82
	PDM	03-06-08 05:41	03-06-08 06:26	0.750	SUM	2447.00	2476.00	38.7	ROTATE	0.0	G	900	3729	3631	98	50	10.0	7.2			
	PDM	03-06-08 06:40	03-06-08 07:01	0.350	SUM	2476.00	2491.00	42.9	ROTATE	0.0	G	900	3814	3604	210	50	16.0	4.7			
	PDM	03-06-08 07:01	03-06-08 07:19	0.300	SUM	2491.00	2504.00	43.3	ROTATE	0.0	G	900	3923	3665	258	100	13.0	11.5			
	PDM	03-06-08 07:30	03-06-08 07:41	0.183	SUM	2504.00	2515.00	60.0	ROTATE	0.0	G	900	3894	3696	198	120	13.0	11.8	2508.06	0.43	323.34
	PDM	03-06-08 07:41	03-06-08 07:41	0.000	SUM	2515.00	2515.00	0.0	ROTATE	0.0	G	900	3894	3696	198	120	13.0	11.8	2508.06	0.43	323.34
SCR's Pump #2 Reduce flowrate, losses over shakers.	PDM	03-06-08 07:41	03-06-08 08:00	0.317	SUM	2515.00	2533.00	56.8	ROTATE	0.0	G	900	3792	3645	147	140	14.0	9.5			
	PDM	03-06-08 08:21	03-06-08 08:58	0.617	SUM	2533.00	2562.00	47.0	ROTATE	0.0	G	900	3820	3702	118	140	16.0	10.2			
	PDM	03-06-08 09:08	03-06-08 09:41	0.550	SUM	2562.00	2590.00	50.9	ROTATE	0.0	G	820	3331	3232	99	140	18.0	10.1			
	PDM	03-06-08 09:53	03-06-08 10:25	0.533	SUM	2590.00	2619.00	54.4	ROTATE	0.0	G	900	3847	3665	182	140	15.0	10.6	2594.16	0.37	325.91
Shaker screens changed.	PDM	03-06-08 10:38	03-06-08 11:04	0.433	SUM	2619.00	2648.00	66.9	ROTATE	0.0	G	940	4225	4025	200	150	12.0	6.4			
Blew popoff #2 pump.	PDM	03-06-08 11:15	03-06-08 11:42	0.450	SUM	2648.00	2677.00	64.4	ROTATE	0.0	G	940	4321	4059	262	140	19.0	10.9			
	PDM	03-06-08 12:05	03-06-08 12:45	0.667	SUM	2677.00	2706.00	43.5	ROTATE	0.0	G	920	4269	4021	248	150	18.0	8.2			
	PDM	03-06-08 12:57	03-06-08 13:02	0.083	SUM	2706.00	2708.00	24.0	ROTATE	0.0	G	920	4665	4086	579	150	22.0	7.7			
	PDM	03-06-08 13:05	03-06-08 13:46	0.717	SUM	2708.00	2735.00	37.7	ROTATE	0.0	G	860	4002	3643	359	150	13.0	8.1			
	PDM	03-06-08 14:03	03-06-08 15:00	0.950	SUM	2735.00	2764.00	30.5	ROTATE	0.0	G	880	4040	3627	413	150	15.0	20.1			
SCR's pump #1	PDM	03-06-08 15:20	03-06-08 16:10	0.833	SUM	2764.00	2793.00	34.8	ROTATE	0.0	G	890	4186	3831	355	150	12.0	18.7	2768.83	0.44	309.07
	PDM	03-06-08 16:22	03-06-08 17:15	0.883	SUM	2793.00	2822.00	32.8	ROTATE	0.0	G	880	3851	3861	-10	150	20.0	7.2			
	PDM	03-06-08 17:29	03-06-08 17:57	0.467	SUM	2822.00	2851.00	62.1	ROTATE	0.0	G	890	4084	3856	228	150	19.0	8.9	2827.34	0.37	280.23
	PDM	03-06-08 18:06	03-06-08 18:35	0.483	SUM	2851.00	2880.00	60.0	ROTATE	0.0	G	880	4075	3905	170	140	16.0	12.8			
	PDM	03-06-08 18:54	03-06-08 19:30	0.600	SUM	2880.00	2909.00	48.3	ROTATE	0.0	G	860	3963	3832	131	140	20.0	15.7			
	PDM	03-06-08 19:42	03-06-08 20:33	0.850	SUM	2909.00	2938.00	34.1	ROTATE	0.0	G	870	4000	3730	270		20.0	14.2			
	PDM	03-06-08 20:49	03-06-08 21:42	0.883	SUM	2938.00	2967.00	32.8	ROTATE	0.0	G	870	4000	3810	190	140	16.0	9.2	2940.58	0.37	309.92
	PDM	03-06-08 21:51	03-06-08 23:12	1.350	SUM	2967.00	2996.00	21.5	ROTATE	0.0	G	870	4120	3910	210	140	17.0	12.5			
TD.	PDM	03-06-08 23:24	04-06-08 01:04	1.667	SUM	2996.00	3025.00	17.4	ROTATE	0.0	G	870	4138	3985	153	110	18.0	17.5			
	PDM	04-06-08 01:20	04-06-08 05:18	3.967	SUM	3025.00	3054.00	7.3	ROTATE	0.0	G	870	4120	3879	241	140	20.0	15.4			

6. Drilling Tool Run Reports



DOWN-HOLE MOTOR RUN REPORT

RUN N° Motor Size/Run Serial No Measurements are in

Company Well Slot Field
 Location Country
 Operator Rig Engineer Date

Bit Size Make Type IADC Jets Jets Jets TFA
 IADC CUTTING STRUCTURE
 Inner Row Outer Row Dull Char' Location Brg/Seals Gauge Others Reason for Trip

Motor Made By Size Model / Type Rot'/Stat' Stages Serial No Hsg Stab OD ° Bent Hsg ° Bent Sub
 Type 1 Rotor S/N° Stator S/N°
 Drlg Cmt, W/Ream Drlg Hrs Circ Hrs Total Motor Circ Hrs

Purpose of Run To drill this run to the lower Belfast formation. The target formations are the Lower Belfast formation (primary target 2902 m RT) and the Paaratte Fm (secondary target 2167 m RT).
 Reason for POOH: Total Depth.

BHA#
 12 1/4" PDC Bit
 A962GT Motor
 Float Sub
 12 1/4" Stabiliser
 8 1/4" Lower saver sub
 8 1/4" ARC (LWD)
 8 1/4" Lower saver sub
 8 1/4" PowerPulse
 8 1/4" Upper saver sub
 8 1/4" SonicVision (LWD)
 8 1/4" Upper saver sub
 8 1/4" SADN (LWD)
 8 1/4" Upper saver sub
 8 x 8" DC
 Hydraulic Jar
 2 x 8" DC
 Crossover
 15 x 5" HWDP

Depth In Depth Out Inter'l Drld
 Date In Date Out Inter'l ROP
 Time In Time Out Time BRT Hrs

Surveys MD IN Incln Azim
 MD OUT Incln Azim

Flow Rate Off Bttm Press On Bttm Press RPM WOB
 GPM PSI PSI Surface KLbs

Mud Type Mud Wt Mud Grad' Vis
 PV Filtrate % Solids pH
 YP % Oil / Water % Sand Circ Temp

FAILURE? Slide Mts Previous Hrs Cumulative Hrs

Remarks / Failure Report.

1) Motor was checked prior to RIH

Failure : Type = Category = -

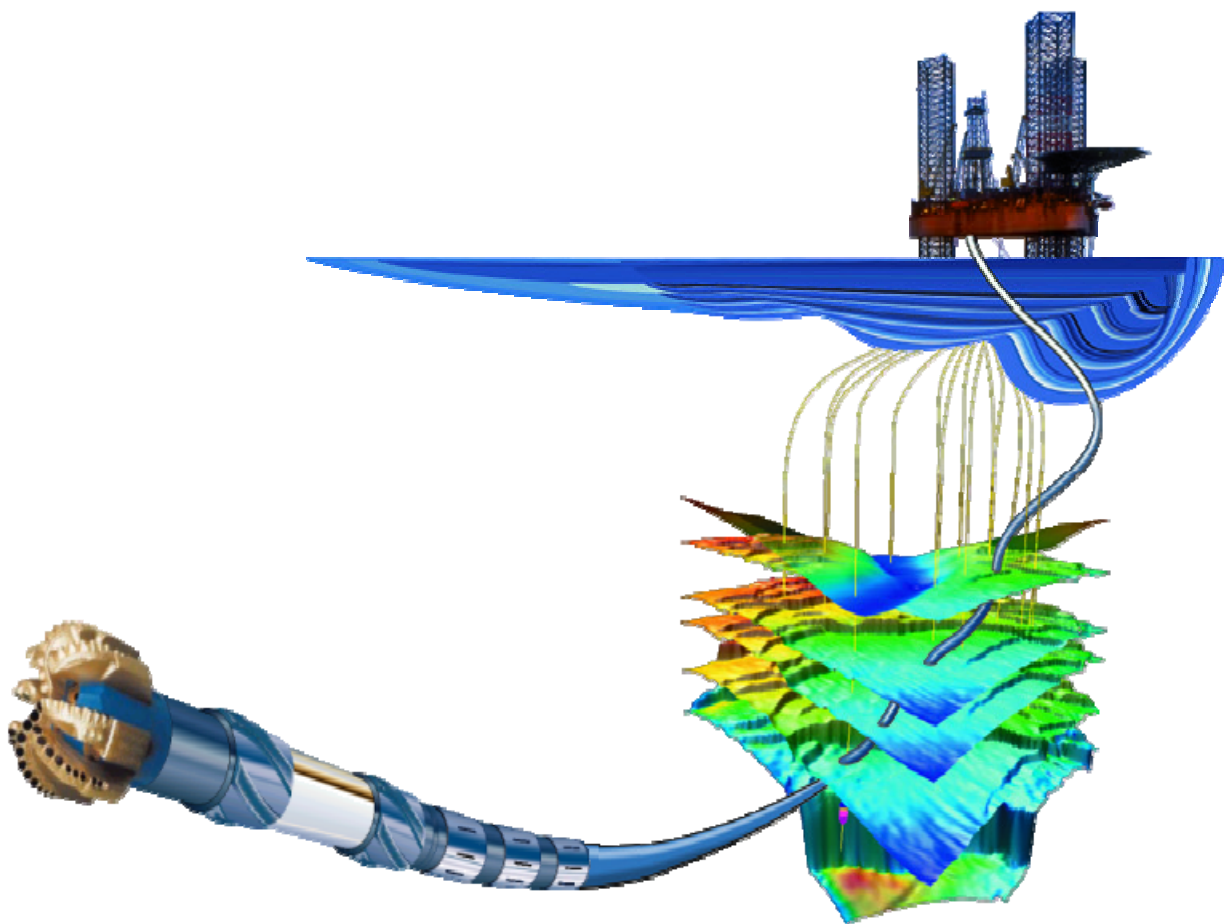
Did Motor Stall?

No Rty
 Slide -

Bearing Play

In Out
 Condition

7. Drill Bit Grading



PDC GRADING CHART

BIT RUN DATA

Bit Size:	12 1/4"		
Manufacturer:	Hughes Christensen		
Bit Type:	HC506ZX		
Serial Number:	7012701		
New Bit:	Yes		
IADC Code:	M323		
Number of Nozzles:	6		
Size of Nozzles:	16		
Number of Blades:	6		
Number of Cutters:	54	27	P=Primary
Size of Cutters:	16	13	S=Secondary
T.F.A. (sq ins):	1.180		
W.O.B. :	12.5		
Depth Out:	3062		
Depth In:	1947		
Meters Drilled:	1115		
Rotating Hours:	40.20		
Sliding Hours:	0.00		
Metres Rotary:	1947		
Metres Slide:	0		
Total Hours:	40.20		
Average R.O.P:	27.74		
Circulation Rate (GPM):	880		
R.P.M. at Bit:	97		
Motor Used:	Yes		
Motor Size:	A962M		
Good for Rerun:	No		

WELL DATA

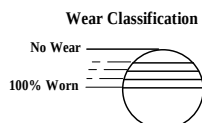
Date:	4-Jun-08
Drilling Supervisor:	Chris Hood
Platform:	Ocean Patriot
Well Number:	1092980
Rig Contractor:	Diamond Offshore
Well:	Jarver-1
Date in:	1-Jun-08
Date Out:	4-Jun-08
Average Hole Angle:	0.35

MUD AND LITHOLOGY DATA

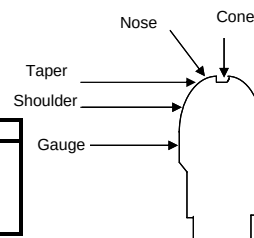
Majority Formation:	Siltstone
Other Formation:	Sandstone
% Formation:	30%
Mud Type:	KGLY
Mud Weight:	10.4 ppg
PV:	16 cp
YP:	28 lbs/100ft
% Solids:	7.76
PH (meter):	9.2

COMMENTS:

PDC GRADING



(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)
0	1	WT	S	X	1	RO	TD



PDC GRADING CHART AS PER IADC NOMENCLATURE

CUTTING STRUCTURE				B	G	REMARKS	
INNER ROWS	OUTER ROWS	DULL CHAR.	LOC ATION.	BRING SEALS	GAUGE 1/16"	OTHER CHAR.	REASON PULLED
(A)	(A)	(B)	(C)	(D)	(E)	(B)	(F)

(A)	0	No Wear
	8	No Cutting structure

(D)	X	Fixed Cutter Bits

(E)	1	In Gauge
	1/16	1/16" Undergauge
	2/16	1/8" Undergauge etc.

(B)	BT	Broken Cutters
	BU	Balled Up
	CR	Cored
	CT	Chipped Cutters
	ER	Erosion
	HC	Heat Checking
	JD	Junk Damage
	LN	Lost Nozzle
	LT	Lost Cutters
	OC	Off-Center Wear
	PN	Plugged Nozzle/ Waterway Passage
	RG	Rounded Gauge
	RO	Ring Out
	WO	Washed Out - Bit
	WT	Worn Cutters
	NO	Bit is Green
	IM	Impact
	DEL	Delamination
	SPL	Spalling
	BF	Bond Failure

(C)	C	Cone
	N	Nose
	T	Taper
	S	Shoulder
	G	Gauge
	A	All Angles

(F)	BHA	Change BHA
	DMF	Downhole Motor Fail
	DSF	Drill String Fail
	DST	Drill Stem Test
	DTF	Downhole Tool Fail
	LOG	Run Logs
	RIG	Rig Repair
	CM	Condition mud
	CP	Core Point
	DP	Drill Plug
	FM	Formation Change
	HP	Hole Problems
	HR	Hours
	PP	Pump Pressure
	PR	Penetration Rate
	TD	Total Depth
	TQ	Torque
	TW	Twist-Off
	WC	Weather Conditions
	WO	Washout/Drill String
	ROP	Rate of Penetration

SECTION 4 : DAILY GEOLOGICAL REPORTS

DAILY GEOLOGICAL REPORT

DGR 01

Date:	17 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	01	RT - SEAFLOOR:	597.7m
Current Hole Size:	914mm (36")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	645m MDRT	PTD:	3422m MDRT
	-623.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	47.3m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Preparing to land out the well head in the Permanent Guide Base.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")				
	660mm (26")		508mm (20")				
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	Seawater / PHG Sweeps	8.75							

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current	1	Varel	Rock	914mm (36")	4.0	47.5	0-0-NO-0-I-NO-TD
Previous							

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Spud Jarver 1 at 05:30hrs on 16th May 2008. Drill 914mm (36") hole from seafloor at 597.7m MDRT to 945m. Back reamed hole to 605m. Displace hole to PHG mud. Pull out of hole from 645m. Rack back the bottom hole assembly. Unable to run casing due to weather conditions. Pick up 54 joints of drill pipe. Make up 762mm (30") conductor.

Anticipated Operations:

Run and cement 762mm (30") casing.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
	Returns to seafloor.	

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 02

Date:	18 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	02	RT - SEAFLOOR:	597.7m
Current Hole Size:	660mm (26")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	645m MDRT	PTD:	3422m MDRT
	-623.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	47.3m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Running in hole with the 660mm (26") Bottom Hole Assembly.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")		508mm (20")				
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	Seawater / PHG Sweeps	8.75							

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous	1	Varel	Rock	914mm (36")	4.0	47.5	0-0-NO-0-I-NO-TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Ran 762mm (30") conductor on drill pipe. Unable to stab into TGB, centre rig. Continue to run in hole. Land PGB on TGB. Circulate and cement casing. Release running tool. Pull out of hole to surface. Lay out the 914mm (36") bottom hole assembly. Make up and run in hole with the 660mm (26") bottom hole assembly to 550m at 06:00hrs.

Anticipated Operations:

Drill ahead with the 660mm (26") hole section.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 03

Date:	19 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	03	RT - SEAFLOOR:	597.7m
Current Hole Size:	660mm (26")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1135m MDRT	PTD:	3422m MDRT
	-1113.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	490m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Drilling ahead 660mm (26") surface hole.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")		508mm (20")				
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	Seawater / PHG Sweeps	8.8							

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current	2	STC	Rock	XR+	660mm (26")	11.5	440	In Hole
Previous	1	Varel	Rock		914mm (36")	4.0	47.5	0-0-NO-0-I-NO-TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Run in hole with the 660mm (26") drilling assembly. Tag cement at 642m. Drill cement and the casing shoe to 645m. Drill ahead 660mm (26") hole from 645m to 1135m at 06:00hrs.

Anticipated Operations:

Drill ahead to the 660mm (26") hole section total depth at 1407m.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
	Returns to seafloor.	

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 04

Date:	20 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	04	RT - SEAFLOOR:	597.7m
Current Hole Size:	660mm (26")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	272m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Picking up drill pipe while waiting on weather to off-load 508mm (20") casing from the work boat.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")				
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	Seawater / PHG Sweeps	8.8							

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current	2	STC	Rock	XR+	660mm (26")	23.2	762	In Hole
Previous	1	Varel	Rock		914mm (36")	4.0	47.5	0-0-NO-0-I-NO-TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Drill ahead 660mm (26") hole from 1135m to 1407m. Circulate and sweep the hole with PHG mud. Spot 9.5m3 (60bbl) KCl pill on bottom. Drop EMS survey tool. Pull out of hole from 1407m to 633m working tight hole at 1229m, 1110m, 1024m, 990m and 945m. Pick up and run in hole with drill pipe singles to 1035m. Pump 233m3 (1468bbl) of PHG. Pull out of hole from 1035m to 633m, no overpull.

Anticipated Operations:

Pick up drill pipe while waiting on weather to off-load 508mm (20") casing from the work boat.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
	Returns to seafloor during the drilling of the 660mm (26") hole section.	

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 05

Date:	21st May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	05	RT - SEAFLOOR:	597.7m
Current Hole Size:	660mm (26")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Waiting on weather to unload casing running equipment from the work boat.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")				
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	Seawater / PHG Sweeps	8.8							

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous	2	STC	Rock	XR+	660mm (26")	23.2	762

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Make up stands of drill pipe and rack back. Pull out of hole from 1035m to the bottom hole assembly, no overpull. Break out the 660mm (26") bottom hole assembly. Unload the 508mm (20") casing from the work boat while rigging up to run casing. Unable to unload the casing tong power pack due to poor weather. Rig down casing handling gear. While waiting on weather, make up cementing stand. Make up drill pipe stands and rack back in the derrick. Rig up to run 508mm (20") casing. Wait on weather.

Anticipated Operations:

Pick up drill pipe while waiting on weather to off-load the casing tong power pack from the work boat.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 06

Date:	22 nd May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	06	RT - SEAFLOOR:	597.7m
Current Hole Size:	660mm (26")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Running 508mm (20") casing. 63 of 65 joints run at 06:00hrs.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56		
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	Seawater / PHG Sweeps	8.8							

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current								
Previous	2	STC	Rock	XR+	660mm (26")	23.2	762	1-1-WT-A-0-I-NO-TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Rig up to run 508mm (20") casing. Wait on weather. Unload casing equipment from the work boat. Make up the shoe track and run in hole. Run 508mm (20") 198 kg/m (133 lb/ft) X56 casing. 63 of 65 joints run at 06:00hrs.

Anticipated Operations:

Continue to run, land and cement 508mm (20") casing. Prepare to run the Blow Out Preventer and marine riser.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 07

Date:	23 rd May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	07	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Running the blow out preventer and marine riser.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1398m	
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	PHPA	8.8							

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous							

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Run 508mm (20") 198 kg/m (133 lb/ft) X56 casing. Total 65 joints run. Make up wellhead housing. Run casing on 127mm (5") drill pipe. Work through tight spot at 1310m. Casing stuck at 1390m, circulate and work free. Land casing. Shoe at 1398m. Cement casing and displace with seawater. Bump plug. Release running string and pull out of hole. Prepare to run the riser. Move the Blow Out Preventer to the moon pool. Commence making up the marine riser to the Blow Out Preventer.

Anticipated Operations:

Run the Blow Out Preventer and marine riser.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 08

Date:	24 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	08	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Running the blow out preventer and marine riser.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1398m	
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	9.6							

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous							

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Commence making up the marine riser to the Blow Out Preventer. Run the Blow Out Preventer and marine riser. Total 31 joints run at 06:00hrs.

Anticipated Operations:

Run the Blow Out Preventer and marine riser, land and latch. Conduct BOP test. Repair aft compensator cylinder.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 09

Date:	25 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	09	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Completed BOP test. Running the bore protector.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	8.9							

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous							

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Continue to run the marine riser and blow out preventer. Land and latch the Blow Out Preventer. Pressure test the casing connector. Scope out the slip joint. Pressure test the Blow Out Preventer.

Anticipated Operations:

Repair aft compensator cylinder. Make up the 445mm (17 ½") bottom hole assembly and run in hole.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 10

Date:	26 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	10	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Continuing repairs on compensator cylinder piston.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	8.9							

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous							

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Complete pressure testing the Blow Out Preventer. Pull out of hole with the test tool. Run in hole and release the bore protector. Make up the 340mm (13 3/8") casing hanger and rack back in the derrick. Rig repairs, work on compensator cylinder.

Anticipated Operations:

Rig repairs, repair compensator cylinder. Make up the 445mm (17½") bottom hole assembly and run in hole.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 11

Date:	27 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	11	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Displacing the well to 1.07sg (8.9ppg) mud prior to drilling the 508mm (20") casing shoe track.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	8.9							

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current	3	HTC	Rock	MXL-T1V	445mm (17.5")	-	-	In Hole.
Previous								

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Rig repairs, work on compensator cylinder. Rack back the 241mm (9½") drill collars. Make up the 445mm (17½") bottom hole assembly. Shallow test the MWD tools. Run in hole with the 445mm (17½") drilling assembly. Tag cement plugs at 1381m. Pick up off bottom. Circulate and displace the well to 1.07sg (8.9ppg) KCl-Glycol mud building new mud in the pits while circulating.

Anticipated Operations:

Circulate and displace the well to a KCl-Glycol mud system. Drill the shoe track. Conduct a Leak-Off Test. Drill ahead 445mm (17½") hole.

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HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

LWD Sensor Offsets from the Bit:

GR: 10.85m
Res: 10.8m
Directional: 18.27m
PWD: 10.09m

DAILY GEOLOGICAL REPORT

DGR 12

Date:	28 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	12	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1407m MDRT	PTD:	3422m MDRT
	-1385.5m SS	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Drilling the 508mm (20") shoe at 1399m.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	9.0	65	10	9.2	8.0	56k	14/30	

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current	4	HTC	Rock	MXL-T1V	445mm (17.5")	-	-	In Hole
Previous	3	HTC	Rock	MXL-T1V	445mm (17.5")	9.0	6.0	8-8-BU-A-0-I-CD-PR

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Circulate and displace the well to 1.07sg (8.9ppg) KCl-Glycol mud building new mud in the pits while circulating. Drill cement plugs and float collar from 1381m to 1382m. Continue to drill out shoe track from 1382m to 1385m. Rubber debris at the shale shakers. Pull out of hole due to slow penetration. Inspect bit. Bit was balled with float debris, bit damaged. Make up Bit 4 and run in hole. Drill shoe track from 1385m to 1399m.

Anticipated Operations:

Drill the 508mm (20") shoe track. Conduct a Leak-Off Test. Drill ahead 445mm (17½") hole.

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HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

LWD Sensor Offsets from the Bit:

GR: 10.85m
Res: 10.8m
Directional: 18.27m
PWD: 10.09m

DAILY GEOLOGICAL REPORT

DGR 13

Date:	29 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	13	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.2m LAT
		RT:	21.5m LAT
Depth @ 06:00 Hrs EST:	1859m MDRT	PTD:	3422m MDRT
	-1837.5m SS LAT	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	452m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Drilling ahead 445mm (17½") hole at 40 m/hr.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.13	72	7	9.5	8.0	57k	15/30	0.079Ωm @ 22.2□ C

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current	4	HTC	Rock	MXL-T1V	445mm (17.5")	10.5	313	In Hole
Previous	3	HTC	Rock	MXL-T1V	445mm (17.5")	9.0	6.0	8-8-BU-A-0-I-CD-PR

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
	MWD	1811	0.22	22	1811	1	337
	MWD	1840	0.41	23	1840	1	344

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Drill the 508mm (20") shoe at 1399m, clean rat hole to 1407m. Drill 1407m to 1410m. Circulate sample / hole clean. Conduct a Leak-Off Test (LOT). Equivalent Mud Weight (EMW) = 1.37sg (11.4 ppg). Drill ahead 445mm (17½") hole from 1410m to 1859m.

Anticipated Operations:

Drill ahead 445mm (17½") hole to 340mm (13 3/8") casing depth at +/- 1950m.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
1407 – 1460m 10 – 59 m/hr Av: 31 m/hr	SANDSTONE WITH MINOR INTERBEDDED SILTSTONE. <u>SANDSTONE</u> : clear, translucent, white, common orange / yellow Fe stain, fine to coarse grained, locally dominantly medium to coarse, moderately sorted, sub angular to sub rounded, trace rounded, trace light grey silty matrix, minor to common mica flakes, common orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence. <u>SILTSTONE</u> : light to medium grey, medium brownish grey, very finely arenaceous, trace mica flecks, firm, blocky.	trace 100/-
1460 – 1550m 8 – 134 m/hr Av: 40 m/hr	<u>SANDSTONE</u> : clear, translucent, white, common orange Fe stain, fine – medium grained, trace coarse, poorly sorted, sub angular to sub rounded, light grey silty matrix, traces mica flakes, rare orange & light green lithics, predominantly loose quartz grains, good inferred porosity, no fluorescence. Note: Clay / silty content washing from samples at the shale shakers.	trace 100/-
1550 – 1767m 11 – 127 m/hr Av: 56 m/hr	SANDSTONE WITH MINOR INTERBEDDED CLAYSTONE. <u>SANDSTONE</u> : clear, transparent - translucent, milky white, smoky in parts, fine - medium grained, trace coarse, sub angular to sub rounded, poor to moderately sorted, loose quartz grains, non calcareous cement, trace mica, trace pyrite, good inferred porosity, no fluorescence. <u>CLAYSTONE</u> : dark grey to grey, light grey in parts, argillaceous, amorphous to soft, sticky, washes from sample at shale shakers.	trace 100/-
1767 – 1810m 17 – 134 m/hr Av: 41 m/hr	INTERBEDDED SANDSTONE AND SILTSTONE. <u>SANDSTONE</u> : clear, translucent, minor yellow Fe stain, very fine to medium grained, trace coarse, sub angular to sub rounded, poor sorting, common clay / silty matrix which washes from the sample, trace off white lithics, predominately loose quartz grains, poor inferred porosity due to washed out clay content, no fluorescence. <u>CLAYSTONE</u> : medium to dark grey, medium to dark brownish grey, very finely arenaceous, soft, dispersive. NOTE: Clay content washes from samples at the shale shakers.	trace 100/-

REMARKS:

LWD Sensor Offsets from the Bit:

GR: 10.82m
Res: 10.77m
Directional: 18.22m

DAILY GEOLOGICAL REPORT

DGR 14

Date:	30 th May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	14	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.85m AHD
		RT:	20.85m AHD
Depth @ 06:00 Hrs EST:	1947m MDRT	PTD:	3421m MDRT
	-1926m SS AHD	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	88m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Making up the 340mm (13 3/8") casing shoe track.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")		340mm (13.375mm)				
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.13	75	6.6	9.0	8.0	53k	19/33	0.081Ωm @ 22.5 C

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous	4	HTC	Rock	MXL-T1V	445mm (17.5")	17.0	540

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
	MWD	1897	0.4	21	1897	1.3	354
	MWD	1928	0.4	341	1928	1.5	355

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Drill ahead 445mm (17½") hole from 1859m to 1947m. Circulate samples, 90% Siltstone / Claystone, 10% Sandstone. Circulate hole clean. Pull out of hole. Jet wellhead. Rig to run casing. Make up the 340mm (13 3/8") shoe track.

Anticipated Operations:

Run 340mm (13 3/8") casing and cement.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
1810 – 1860m 2 – 83 m/hr Av: 37 m/hr	<u>CLAYSTONE</u> : medium grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.	trace 100/-
1860 – 1947m 14 – 69 m/hr Av: 35 m/hr	INTERBEDDED CLAYSTONE, SANDSTONE AND SILTSTONE. <u>SANDSTONE</u> : light grey, clear, translucent, fine to medium, trace coarse grained, fair sorting, sub angular to predominately sub rounded, minor to common light grey silty matrix in fine grained aggregates, medium to coarse grains are predominately loose, rare nodular pyrite, trace fine grained orange lithics, trace chert ?, poor visual and inferred porosity, no fluorescence. <u>SILTSTONE</u> : medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty <u>CLAYSTONE</u> , trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky. <u>CLAYSTONE</u> : medium grey, medium brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.	trace 100/-

REMARKS:

LWD Sensor Offsets from the Bit: GR: 10.82m, Res: 10.77m, Directional: 18.22m

DAILY GEOLOGICAL REPORT

DGR 15

Date:	31 st May 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	15	RT - SEAFLOOR:	597.7m
Current Hole Size:	445mm (17½")	WATER DEPTH	576.85m AHD
		RT:	20.85m AHD
Depth @ 06:00 Hrs EST:	1947m MDRT	PTD:	3421m MDRT
	-1926m SS AHD	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Rigging up the cement head prior to circulating and cementing casing.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")	1947m	340mm (13.375mm)	101 kg/m (68 lb/ft)	L80		
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.13	72	6.0	9.0	8.0	53k	19/30	0.081Ωm @ 22.5 C

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current								
Previous	4	HTC	Mill Tooth	MXL-T1V	445mm (17.5")	17.0	540	0-1-CT-G1-E-I-ER-TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Make up the 340mm (13 3/8") shoe track. Run 340mm (13 3/8") 101 kg/m (68 lb/ft) L80 casing. 63 joints run. Incident occurred on the rig floor, person injured. Casing operation stopped. Investigate area with all parties concerned. Repositioned equipment to continue the operation safely. Continue running casing 1021m to 1320m. Stop operation and conduct safety meeting with the crews. Operation shut down for medivac helicopter. Continue to run casing. Total 112 joints run. Make up the drill pipe landing string and run in hole. Rig up the cement head prior to circulating and cementing the casing.

Anticipated Operations:

Circulate and cement 340mm (13 3/8") casing.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

DAILY GEOLOGICAL REPORT

DGR 16

Date:	1 st June 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	16	RT - SEAFLOOR:	597.7m
Current Hole Size:	311mm (12¼")	WATER DEPTH	576.85m AHD
		RT:	20.85m AHD
Depth @ 06:00 Hrs EST:	1947m MDRT	PTD:	3421m MDRT
	-1926m SS AHD	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Slip and cut drilling line prior to making up the 311mm (12¼") Bottom Hole Assembly.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")	1947m	340mm (13.375mm)	101 kg/m (68 lb/ft)	L80	1941m	
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.12	74	5.2	9.0	8.0	53k	17/36	0.081Ωm @ 22.5 C

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous							

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Rig up the cement head. Circulate casing. Cement casing, Lead: 49m³ (308bbl) class "G" at 1.5sg (12.5ppg). Tail: 18m³ (112 bbl) class "G" at 1.9sg (15.8ppg). Displace cement with mud using the rig pumps. Did not bump the plug. No mud losses recorded while displacing. Set the seal assembly. Pressure test the Blow Out Preventers. Attempt to set the wear bushing, unsuccessful. Run in with the jetting sub below the wear bushing running tool. Jet through the wellhead area. Set the wear bushing and pull out of hole. Lay out the cementing head. Prepare to slip and cut the drilling line.

Anticipated Operations:

Slip and cut the drilling line. Make up the 311mm (12¼") Bottom Hole Assembly and run in hole. Drill the 340mm (13 3/8") shoe track. Conduct a Leak-off Test. Drill ahead 311mm (12¼") hole.

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HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

LWD Sensor Offsets from the Bit: (311mm (12¼") hole section)

ARC5-MWD-SONIC-ADN

GR: 15.97m

Res: 15.92m

D&I: 23.38m

Sonic: 32.88m

HeFar: 40.81m

HeNear: 40.66m

DenLong: 38.83m

DenShort: 38.91m

Caliper: 38.66m

DAILY GEOLOGICAL REPORT

DGR 17

Date:	2 nd June 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	17	RT - SEAFLOOR:	597.7m
Current Hole Size:	311mm (12¼")	WATER DEPTH	576.85m AHD
		RT:	20.85m AHD
Depth @ 06:00 Hrs EST:	1947m MDRT	PTD:	3421m MDRT
	-1926m SS AHD	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Drilling the 340mm (13 3/8") casing shoe track.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")	1947m	340mm (13.375mm)	101 kg/m (68 lb/ft)	L80	1941m	
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.13	68	5.5	9.0	8.0	51k	14/30	0.081Ωm @ 22.5 C

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current	5	HC	PDC	HC506ZX	311mm (12¼")	-	-	In Hole
Previous								

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Lay out the cementing head. Slip and cut the drilling line. Pressure test surface equipment. Make up the 311mm (12¼") Bottom Hole Assembly. Shallow test the LWD tools at 55m. Load sources. Shallow test the LWD tools at 150m, no signal. Pull out, remove sources. Recheck electrical connection between ADN and Sonic tools. Install sources and run in hole. Shallow test tools, good test. Continue to make up the Bottom Hole Assembly and run in hole to 500m. Pressure test casing. Continue to run in hole. Tag cement at 1913m. Drill the casing shoe track.

Anticipated Operations:

Drill the casing shoe track and 3m of new hole. Conduct a Leak-Off Test. Drill ahead 311mm (12¼") hole.

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HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

LWD Sensor Offsets from the Bit: (311mm (12¼") hole section)

ARC5-MWD-SONIC-ADN

GR: 15.97m

Res: 15.92m

D&I: 23.38m

Sonic: 32.88m

HeFar: 40.81m

HeNear: 40.66m

DenLong: 38.83m

DenShort: 38.91m

Caliper: 38.66m

DAILY GEOLOGICAL REPORT

DGR 18

Date:	3 rd June 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	18	RT - SEAFLOOR:	597.7m
Current Hole Size:	311mm (12¼")	WATER DEPTH	576.85m AHD
		RT:	20.85m AHD
Depth @ 06:00 Hrs EST:	2458m MDRT	PTD:	3421m MDRT
	-2437m SS AHD	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	511m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Drilling the 311mm (12¼") hole at 45 m/hr.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")	1947m	340mm (13.375mm)	101 kg/m (68 lb/ft)	L80	1942m	1.55sg (12.9ppg)
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.25	63	4.8	9.2	8.2	53k	19/32	0.083Ωm @ 24.8 °C

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current	5	HC	PDC	HC506ZX	311mm (12¼")	11.4	363	In Hole
Previous								

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
		2336	0.4	318	2336	4.0	342
		2422	0.4	320	2422	4.6	339

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Drill the casing shoe track, the casing shoe at 1942m. Clean the rat hole to 1947m and drill 3m of new hole to 1950m. Circulate bottoms up sample. Conduct a Leak-Off Test (LOT). Equivalent Mud Weight (EMW) = 1.55sg (12.9 ppg). Drill ahead 311mm (12¼") hole from 1950m to 2458m

Anticipated Operations:

Drill ahead 311mm (12¼") hole.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS
2322 – 2328m	<u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix, trace fine carbonaceous specks, trace nodular pyrite, trace lithics, soft to friable, poor visual porosity, 2322 – 2328m <u>Fluorescence</u> : Poor show, trace very dull orange spotted fluorescence in fine grained aggregates, faint dull yellow white crush cut, faint white ring residue.	trace C1

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
1947 – 1993 10 – 125 m/hr Av: 56 m/hr	<u>SILTSTONE</u> : medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine grained lithics, soft to friable, dispersive to blocky.	trace C1
1993 – 2178m 15 – 112 m/hr Av: 63 m/hr	<u>SILTSTONE WITH OCCASIONAL INTERBEDDED FINE TO MEDIUM GRAINED SANDSTONE.</u> <u>SILTSTONE</u> : medium brownish grey, medium grey, mottled, argillaceous locally grading to silty CLAYSTONE, minor fine carbonaceous flecks, rare micro mica, trace calcareous fragments, trace lithics, soft to firm, blocky, dispersive in part with clay content easily washed from samples. <u>SANDSTONE</u> : clear, translucent, fine to medium grained, sub angular to sub rounded, moderately well sorted, minor light brownish grey silty matrix, predominately loose clean quartz grains, poor inferred porosity, no fluorescence.	trace C1
2178 – 2349m 6 – 109 m/hr Av: 56 m/hr	<u>INTERBEDDED SILTSTONE AND FINE GRAINED SANDSTONE.</u> <u>SILTSTONE</u> : medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky. Note clay content washes from samples. <u>SANDSTONE</u> : white, very light grey, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix, trace fine carbonaceous specks, trace nodular pyrite, trace lithics, soft to friable, poor visual porosity, 2322 – 2328m <u>Fluorescence</u> : Poor show, trace very dull orange spotted fluorescence in fine grained aggregates, faint dull yellow white crush cut, faint white ring residue.	trace C1

Santos	JARVER 1	Page 3 of 3
	DAILY GEOLOGICAL REPORT	DGR 18
2349 – 2418m 21 – 116 m/hr Av: 61 m/hr	CLAYSTONE WITH INTERBEDDED SILTSTONE. <u>SILTSTONE</u>: light to medium grey, light to medium greenish grey, occasionally medium brownish grey, common carbonaceous flecks, arenaceous locally grading to very fine silty SANDSTONE, trace very fine glauconite, trace micro mica, soft to firm, dispersive to blocky. <u>CLAYSTONE</u>: medium grey to medium dark grey, greenish grey, minor red brown, silty grading to argillaceous SILTSTONE, minor fine carbonaceous flecks, rare nodular pyrite, trace micro mica, minor fine grained glauconite, trace lithics, soft to firm, dispersive to blocky, trace sub fissile.	trace C1

REMARKS:

LWD Sensor Offsets from the Bit: (311mm (12¼") hole section)

ARC5-MWD-SONIC-ADN

GR: 15.97m

Res: 15.92m

D&I: 23.38m

Sonic: 32.88m

HeFar: 40.81m

HeNear: 40.66m

DenLong: 38.83m

DenShort: 38.91m

Caliper: 38.66m

DAILY GEOLOGICAL REPORT

DGR 19

Date:	4 th June 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	19	RT - SEAFLOOR:	597.7m
Current Hole Size:	311mm (12¼")	WATER DEPTH	576.85m AHD
		RT:	20.85m AHD
Depth @ 06:00 Hrs EST:	3056m MDRT	PTD:	3421m MDRT
	-3035m SS AHD	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	598m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Drilling 311mm (12¼") hole at 10m/hr.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")	1947m	340mm (13.375mm)	101 kg/m (68 lb/ft)	L80	1942m	1.55sg (12.9ppg)
	311mm (12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.25	60	5.0	9.0	8.2	55k	14/28	0.077Ωm @ 21.4 C

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Current	5	HC	PDC	HC506ZX	311mm (12¼")	26.6	1063	In Hole
Previous								

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
		2827	0.4	280	2827.3	7	331
		2941	0.4	310	2940.5	8	328

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Drill ahead 311mm (12¼") hole from 2458m to 3056m.

Anticipated Operations:

Drill ahead 311mm (12¼") to total depth at +/- 3065m. Circulate hole clean. Pull out of hole and conduct wireline logs.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
2418– 2692m 22 – 194 m/hr Av: 67 m/hr	CLAYSTONE GRADING TO AND INTERBEDDED WITH SILTSTONE. <u>SILTSTONE</u> : medium grey, medium dark grey, argillaceous grading to silty CLAYSTONE, locally very finely arenaceous grading to very fine SANDSTONE, trace very fine glauconite grains, minor fine carbonaceous specks, trace orange lithics, trace micro mica, firm, blocky. <u>CLAYSTONE</u> : medium dark grey to becoming predominately dark grey, occasionally medium to dark brownish grey, slightly silty grading to argillaceous SILTSTONE, common fine carbonaceous specks, rare lithics, firm, plastic, dispersive to blocky.	trace C1
2692 – 2784m 10 – 121 m/hr Av: 60 m/hr	SANDSTONE WITH INTERBEDDED SILTSTONE. <u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, yellowish brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, trace weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.	trace C1
2784 – 2952m 5 – 150 m/hr Av: 64 m/hr	SILTSTONE WITH INTERBEDDED SANDSTONE. <u>SILTSTONE</u> : medium grey to medium dark grey, argillaceous, grading to CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. <u>SANDSTONE</u> : very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.	trace C1

2952 – 3008m 7 – 95 m/hr Av: 40 m/hr	SANDSTONE WITH INTERBEDDED SILTSTONE. SILTSTONE: medium grey to medium dark grey, argillaceous grading to and interbedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky. SANDSTONE: clear, translucent, off white, light to medium grey, light brown, very fine to medium, moderately sorted, sub angular to sub rounded, light brown argillaceous / silty matrix which easily washes from samples, trace red lithics, predominantly loose clean quartz grains, trace friable aggregates, very poor inferred porosity, no fluorescence.	trace C1
3008 – 3024m 7 – 92 m/hr Av: 38 m/hr	INTERBEDDED SANDSTONE AND CLAYSTONE. CLAYSTONE: light to occasionally medium grey, greenish grey, occasionally red brown, pinkish grey, white, firm, blocky to dispersive. SANDSTONE: translucent, clear, light grey, fine to medium grained, sub angular to sub rounded, fair sorting, trace silty matrix, rare nodular pyrite, trace red and green lithics, predominately loose clean quartz grains, poor inferred porosity, no fluorescence.	trace C1
3024 – 3048m 8 – 98 m/hr Av: 11 m/hr	BASEMENT: ? clear, translucent, occasionally with red stain, fine to medium grained, sub angular to occasionally sub rounded, no visible cement or matrix, rare nodular pyrite, common red and green lithics, common white and light greenish grey feldspars, trace biotite, predominately dis-aggregated quartz grains, very hard fractured quartz aggregates, tight inferred porosity, no fluorescence.	trace C1

REMARKS:

LWD Sensor Offsets from the Bit: (311mm (12¼") hole section)

ARC5-MWD-SONIC-ADN

GR: 15.97m

Res: 15.92m

D&I: 23.38m

Sonic: 32.88m

HeFar: 40.81m

HeNear: 40.66m

DenLong: 38.83m

DenShort: 38.91m

Caliper: 38.66m

DAILY GEOLOGICAL REPORT

DGR 20

Date:	5 th June 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	20	RT - SEAFLOOR:	597.7m
Current Hole Size:	311mm (12¼")	WATER DEPTH	576.85m AHD
		RT:	20.85m AHD
Depth @ 06:00 Hrs EST:	3062m MDRT	PTD:	3421m MDRT
	-3041m SS AHD	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	6m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Pulling back to the casing shoe with wireline Run 1 VSP checkshot, wireline engineer out of hours.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")	1947m	340mm (13.375mm)	101 kg/m (68 lb/ft)	L80	1942m	1.55sg (12.9ppg)
	311mm (12.25")	3061.8m					

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.25	60	5.0	9.2	8.4	53k	17/30	0.077Ωm @ 21.4 C

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous	5	HC	PDC	HC506ZX	311mm (12¼")	29.4	1115
							1-1-WT-S-X-I-NO-TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
		2941	0.4	310	2941	7.8	328
		3062	0.4	339	3062	8.6	327

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Drill ahead 311mm (12¼") hole from 3056m to 3062m. **Total depth reached at 07:00hrs on 4/06/08.** Circulate hole clean. Pull out of hole. Hole condition good. Lay out LWD tools. Rig wireline Run 1 VSP Check shot. Shallow test tools. Run in hole to 2600m. Wireline engineers out of work hours. Pull out of hole to the casing shoe and wait on engineers to have sufficient rest time.

Anticipated Operations:

Conduct wireline logs. Commence Plug and Abandonment program.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
3048 – 3062m 4 – 20 m/hr Av: 6 m/hr	INTB META-SILTSTONE AND META-SANDSTONE. <u>META-SANDSTONE</u> : clear, translucent, occasionally with red stain, fine to medium grained, sub angular to occasionally sub rounded, no visible cement or matrix, rare nodular pyrite, common red and green lithics, common white and light greenish grey feldspars, trace biotite, predominately dis-aggregated quartz grains, very hard fractured quartz aggregates, tight inferred porosity, no fluorescence. <u>META-SILTSTONE</u> : white, very light grey, very light greenish grey, light pinkish grey, soft to firm, uniform, blocky.	trace C1

REMARKS:

LWD Sensor Offsets from the Bit: (311mm (12¼") hole section)

ARC5-MWD-SONIC-ADN

GR: 15.97m

Res: 15.92m

D&I: 23.38m

Sonic: 32.88m

HeFar: 40.81m

HeNear: 40.66m

DenLong: 38.83m

DenShort: 38.91m

Caliper: 38.66m

DAILY GEOLOGICAL REPORT

DGR 21

Date:	6 th June 2008 – 06:00 EST	Licence / State:	T/33P
Report Period:	06:00 – 06:00 Hours EST	Rig:	OCEAN PATRIOT
Days From Spud:	21	RT - SEAFLOOR:	597.7m
Current Hole Size:	311mm (12¼")	WATER DEPTH	576.85m AHD
		RT:	20.85m AHD
Depth @ 06:00 Hrs EST:	3062m MDRT	PTD:	3421m MDRT
	-3041m SS AHD	Spud Date:	05:30 hrs on 16 th May, 08
24 Hr Progress:	0m		
06:00 – 06:00 EST			
<u>Current Operation:</u>	Conducting Suite 1 wireline logs Run 2 Sidewall Cores.		

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
	914 mm (36")	645m	762mm (30")	461 kg/m (310 lb/ft)	X52	643m	
	660mm (26")	1407m	508mm (20")	198 kg/m (133 lb/ft)	X56	1399m	1.37sg (11.4ppg)
	445mm (17.5")	1947m	340mm (13.375mm)	101 kg/m (68 lb/ft)	L80	1942m	1.55sg (12.9ppg)
	311mm (12.25")	3062m					

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf:
	KCl/Glycol	1.25	59	5.0	9.0	8.0	53k	17/31	0.077Ωm @ 21.4 C

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Current							
Previous	5	HC	PDC	HC506ZX	311mm (12¼")	29.4	1115
							1-1-WT-S-X-I-NO-TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Wireline engineers out of work hours. Pull out of hole to the casing shoe and wait on engineers to have sufficient rest time. 11:15hrs. Resume wireline operations, Run 1 VSP-GR Checkshot Survey. Loss of signal at 795m. Pull out and rig down Run 1. Rig and run Log 2: CST-GR. 9 of 30 shots taken at 06:00hrs.

Anticipated Operations:

Conduct wireline logs. Commence Plug and Abandonment program.

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

REMARKS:

SECTION 5 : DAILY DRILLING REPORTS

From : Peter Devine / Rohan Richardson OIM : Dennis Gore / Ricky Sepulvado					
Well Data					
Country	Australia	Measured Depth	0.0m	Current Hole Size	
Field	Jarver	TVD	0.0m	Casing OD	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	
Rig	Ocean Patriot	Days from spud		Shoe TVD	
Water Depth (LAT)		Days on well	0.33	F.I.T. / L.O.T.	
RT-SL(LAT)	21.5m	Current Op @ 0600	Continue to run and set anchor #8 with the Pacific Wrangler. Far Grip on Tow Bridle.		
RT-ML	21.5m	Planned Op	Continue to run anchor #8, then #2, #3, #6 and #7 with both vessels. Ballast down to drilling draft, pick up 50 joints of 127 mm (5") drill pipe and rack back in derrick. Mix up 32 m3 (200 bbls) of kill mud and prepare PHG mud for conductor hole. Prepare 914 mm (36") BHA, cementing stand, TGB and PBG.		
Rig Heading	45.0deg				

Summary of Period 0000 to 2400 Hrs

Completed tow from Basker 6 (VIC/L26) to Jarver 1(T/33P). Commenced anchor handling operations. Passed #5 PCC to Pacific Wrangler, paid out anchor chain and set anchor #5. Stripped #5 PCC back to rig. Passed #1 PCC to the Pacific Wrangler, paid out anchor chain and set anchor #1. Far Grip remained on tow bridle.

Operations For Period 0000 Hrs to 2400 Hrs on 13 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	RM	1600	1945	3.75	0.0m	On tow from Basker 6 (VIC/L26) to Jarver 1 (T/33P). Total distance travelled 554.02 km (299 nm). Mean tow speed 8.9 km/hr (4.8 knots). Ocean Patriot 1.85 km (1 nm) off location at 16:00 hrs. Far Grip on tow bridle. Pacific Wrangler on anchor #5. Simultaneous Operations: 16:29 hrs - #5 PCC passed to Pacific Wrangler 16:35 hrs - Paid out on #5 16:44 hrs - Continued tow to turn onto run line 19:32 hrs - All stop on #5 anchor, 1430 m out 19:36 hrs - #5 hauled in very slowly to maintain tension 19:44 hrs - #5 anchor on bottom
RM	P	AH	1945	2400	4.25	0.0m	End of tow at 19:44 hrs. Continued running anchors on Jarver 1. 19:48 hrs - #5 holding 180 mt 19:48 hrs - Pacific Wrangler stripped back to rig 20:32 hrs - #5 PCC passed back to rig 20:54 hrs - #1 PCC passed to Wrangler 21:00 hrs - Paid out on #1 22:50 hrs - #1 all stop at 1275 m out, 175 mt tension. 22:50 hrs - Pacific Wrangler lowered anchor on bottom 23:07 hrs - #1 anchor on bottom 23:09 hrs - Pacific Wrangler stripped back to rig

Operations For Period 0000 Hrs to 0600 Hrs on 14 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	AH	0000	0600	6.00	0.0m	Continued to run anchor #4. 00:06 hrs - #1 PCC passed back to rig 00:36 hrs - #4 PCC passed to Pacific Wrangler 00:40 hrs - Released #4 anchor off bolster 00:42 hrs - Commenced paying out #4 anchor 00:52 hrs - Stopped on #4 to payout #1 and heave in on #5 anchor 01:24 hrs - Resumed paying out #4 anchor 03:20 hrs - All stopped on #4, 1412 m out 03:36 hrs - #4 anchor on bottom 03:40 hrs - Pacific Wrangler commenced stripping back 04:46 hrs - #4 PCC recovered 05:18 hrs - #8 PCC passed to wrangler 05:22 hrs - Released #8 anchor off bolster 05:26 hrs - Commenced paying out #8 anchor chain.

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Fuel	M3	241.4	3.3	0	238.1	Santos	5
Drill Water	MT	222	0	0	222.0	DOGC	55
Potable Water	MT	397	27	0	370.0	Offshore Marine Services	2
Gel	sx	16	0	0	16.0	ESS	8
Cement	sx	24	0	0	24.0	BHI	3
Barite	sx	58	0	0	58.0	AGR	1
Base Olefin	bbl	0	0	0	0.0	Fugro	3
HTB cement	ft3	3	0	0	3.0	MI Swaco	2
SBM	bbl	0	0	0	0.0	Rheochem	1
PreMix SBM	bbl	0	0	0	0.0	Dowell	3
Helifuel	Litres	0	0	0	0.0	TMT	6
KCl Brine	bbl	0	0	0	0.0	Marcomm	1
Mud	sx	0	0	0	0.0	Other	1
SBM Dril-In	bbl	0	0	0	0.0	GO Offshore	2
NaCl Brine	bbl	0	0	0	0.0	ECL	1
						Dril-Quip	2
						Total	96

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
BOP Test	36	13 May 2008	0 Days	Commenced testing the BOP's as per programme.
Fire Drill		11 May 2008	2 Days	Held a fire drill and mustered in the mess prior to an abandon ship drill at the aft life boats. Discovered most people arrived without their life jackets and consequently, supply at secondary muster station nearly ran out. Brought up in weekly safety meeting to ensure off tour personnel bring their life jacket from room.
JHA	4	13 May 2008	0 Days	Drill crew - 12 Deck crew - 13 Mechanic - 2 Sub Sea - 2 Welders - 7
Lost Time Incident		17 Nov 2006	543 Days	Last LTI on Ocean Patriot
Pre-Tour Meeting	17	13 May 2008	0 Days	Discussed running anchors using load share, good communication and using a spotter to continually monitor anchor winches. Encouraged participation with the STOP program and explained Santos safety award system. Crew brought up the need to avoid pinch points when handling drilling subs.
PTW Issued		13 May 2008	0 Days	8 by cold work permits 9 by hot work permits
Safety Meeting	3	11 May 2008	2 Days	Held three weekly safety meetings with all POB. Discussed STOP program, Santos expectations over the coming campaign, using the correct 4 part shackles, look up and live, carrying your life jacket to the muster station on drills if you're off tour.
Santos Induction	0	13 May 2008	0 Days	David Crane is travelling to site on the 14th to hold pre spud meeting and commence Santos inductions with rig crew and third party.
Stop Observations	65	13 May 2008	0 Days	32 - Safe 33 - Corrective actions

Marine											
Weather check on 13 May 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	31km/h	315.0deg	1018.00bar	14.0C°	0.8m	315.0deg	3sec	1	433.4	175.09	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2			
0.8deg	0.7deg	0.50m	2.5m	270.0deg	9sec	Overcast		3			
Rig Dir.	Ris. Tension	VDL	Comments					4	432.8	180.08	
45.0deg		821.46mt						5	427.0		
								6			
								7			
								8			

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	16:00 hrs		On tow bridle holding rig position while running anchors on Pacific Wrangler.	Item	Unit	Quantity
				Fuel	m3	605
				Potable Water	m3	142
				Drill Water	m3	395
				Cement	mt	85
				HTB cement	mt	0
				Barite	mt	45
				Gel	mt	108
				KCl Brine	bbbls	0
				Mud	bbbls	0
Pacific Wrangler	16:00		Running anchor #8	Item	Unit	Quantity
				Fuel	m3	612
				Potable Water	m3	178
				Drill Water	m3	346
				Cement	mt	
				HTB cement	mt	107
				Barite	mt	
				Gel	mt	42
				KCl Brine	bbbls	16
				Mud	bbbls	
Pacific Crest	16:00		Standby Ocean Patriot	Item	Unit	Quantity
Helicopter Movement						
Flight #	Time		Destination	Comment		Pax
BWJ	10:08		Jarver 1			13
BWJ	10:22		Wynyard			14

From : Peter Devine / Rohan Richardson OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	0.0m	Current Hole Size	
Field	Jarver	TVD	0.0m	Casing OD	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	
Rig	Ocean Patriot	Days from spud		Shoe TVD	
Water Depth (LAT)	575.0m	Days on well	1.33	F.I.T. / L.O.T.	/
RT-SL(LAT)	21.5m	Current Op @ 0600	Continue to pick up drill pipe and prepare PHG mud and kill mud for spudding well.		
RT-ML	596.5m	Planned Op	Continue to pick up 127 mm (5") drill pipe and rack back in derrick until mud is ready. Mix up 32 m3 (200 bbls) of kill mud and prepare PHG mud for conductor hole. Prepare 914 mm (36") BHA, cementing stand, TGB and PBG. RIH BHA with TGB to sea bed and tag, record depth.		
Rig Heading	45.0deg			Planned TD	3022.0m

Summary of Period 0000 to 2400 Hrs

Ran and set anchors #4, #8, #7, #3, #6 and #2. Passed #5 PCC to Pacific Wrangler and re set anchor due to slipping. Cross tensioned anchor lines and skidded rig to well centre. Ballasted down to drilling draft and commenced picking up 127 mm (5") drill pipe.

Operations For Period 0000 Hrs to 2400 Hrs on 14 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	AH	0000	0515	5.25	0.0m	Run anchor #4 on Pacific Wrangler: 00:36 hrs - #4 PCC passed to Pacific Wrangler 00:40 hrs - Released #4 anchor off bolster 00:42 hrs - Commenced paying out #4 anchor 00:52 hrs - Stopped on #4 to payout #1 and heave in on #5 anchor 01:24 hrs - Resumed paying out #4 anchor 03:20 hrs - All stopped on #4, 1412 m out 03:36 hrs - #4 anchor on bottom 03:40 hrs - Pacific Wrangler commenced stripping back 04:46 hrs - #4 PCC recovered
RM	P	AH	0515	0900	3.75	0.0m	Run anchor #8 on Pacific Wrangler: 05:18 hrs - #8 PCC passed to Pacific Wrangler 05:22 hrs - Released #8 anchor off bolster 05:26 hrs - Commenced paying out #8 anchor chain 06:59 hrs - All stop on #8, 1380 m of chain out 07:06 hrs - Heaved in on #8 07:07 hrs - #8 anchor on bottom 07:16 hrs - All stop on #8, 1365 m out. 07:16 hrs - Pacific Wrangler commenced strip back to rig
RM	P	AH	0900	1115	2.25	0.0m	Simultaneous Operations: Commenced pre tensioning anchors #1 and #5. Run anchor #7 on Pacific Wrangler: 09:06 hrs - #7 PCC passed to Pacific Wrangler 09:12 hrs - Released #7 anchor off bolster 09:19 hrs - Commenced payout of #7 anchor chain 10:53 hrs - All stop on #7, 1370 m out, Pacific Wrangler lowered chain 10:58 hrs - #7 anchor on bottom 10:59 hrs - Heaved in on #7 to assist Pacific Wrangler to strip back 11:00 hrs - All stop on #7, 200 t tension 11:01 hrs - Wrangler commenced stripping back to rig
RM	P	AH	1115	1200	0.75	0.0m	Simultaneous Operations: 10:06 hrs - Tow bridle retrieved from Far Grip Run #3 anchor on Far Grip: 11:19 hrs - #3 PCC passed to Far Grip 11:22 hrs - Released #3 anchor off bolster 11:27 hrs - Paid out on anchor #3 13:38 hrs - All stop on #3 13:39 hrs - Far Grip Lowered #3 anchor 13:42 hrs - #3 anchor on bottom 13:43 hrs - Pre tensioned #3 anchor chain to 200 t. 13:43 hrs - Far Grip commenced strip back to rig
RM	P	AH	1200	1500	3.00	0.0m	Run anchor #6 on Pacific Wrangler: 12:03 hrs - #6 PCC passed to Pacific Wrangler 12:09 hrs - Paid out on anchor #6 13:57 hrs - All stop on anchor #6 13:58 hrs - Pacific Wrangler lowered #6 anchor to sea bed 14:03 hrs - Pre tensioned anchor #6 to 215 t 14:04 hrs - #6 anchor on bottom 14:08 hrs - Pacific Wrangler started to strip back to rig 14:52 hrs - #6 PCC passed back to rig.
RM	P	AH	1500	1515	0.25	0.0m	15:08 hrs - #5 PCC passed to Far Grip to re-run anchor due to slipping

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	AH	1515	1800	2.75	0.0m	16:05 hrs - #5 anchor off bottom 16:14 hrs - All stop on anchor #5, 1431 m out 16:26 hrs - #5 anchor on bottom 16:27 hrs - Far Grip commenced chasing back PCC to rig 17:53 hrs - #5 PCC recovered Run anchor #2 on Pacific Wrangler: 15:07 hrs - #2 PCC passed to Pacific Wrangler 15:10 hrs - #2 anchor released off bolster 15:12 hrs - Commenced paying out #2 anchor chain 16:51 hrs - All stop on #2, 1410 m out 16:52 hrs - Pacific Wrangler commenced lowering #2 anchor 16:55 hrs - #2 anchor on bottom 16:56 hrs - All stop on #2 at 200 t 16:56 hrs - Pacific Wrangler commenced chasing PCC back to rig 17:53 hrs - #2 PCC recovered
RM	P	AH	1800	1900	1.00	0.0m	Cross tensioned anchors to 200t (400 kips)
RM	P	AH	1900	2000	1.00	0.0m	Skidded rig to well location centre
RM	P	AH	2000	2345	3.75	0.0m	Ballasted down rig to 23.5 m drilling draft
PS	P	PUP	2345	2400	0.25	0.0m	Commenced picking up drill pipe and racking back in derrick. Simultaneous Operation: Far Grip came in port side and began delivering bulk ROV - Seabed temperature survey - Temperature 8.1 degrees.

Operations For Period 0000 Hrs to 0600 Hrs on 15 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PS	P	PUP	0000	0600	6.00	0.0m	Picked up and racked back 22 stands of 127 mm (5") drill pipe in derrick. Simultaneous Operations: Took on bulk from Pacific Wrangler and Far Grip. Back loaded Pacific Wrangler ready to release to Portland. Transferred drill water to mud tanks and started mixing PHG mud. Prepared TGB in moon pool and loaded barite onto TGB skid.

General Comments

Comments	Rig Requirements	Lessons Learnt
Anchor chain had a quarter of a turn rotation between the fairleader and wild cat. This caused the chain to jump out of the wildcat and reseal randomly under high tension.		

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	sx	0	0	0	58.0	Santos	5
Gel	sx	0	0	0	16.0	DOGC	1
Cement	sx	0	0	0	24.0	DOGC	57
HTB cement	ft3	0	0	0	3.0	Offshore Marine Services	2
Fuel	M3	0	9.7	0	228.4	ESS	8
Potable Water	MT	37	33	0	374.0	BHI	3
Drill Water	MT	0	42	0	180.0	Fugro	3
Base Olefin	bbl	0	0	0	0.0	MI Swaco	1
SBM	bbl	0	0	0	0.0	Rheochem	1
PreMix SBM	bbl	0	0	0	0.0	Dowell	2
Helifuel	Litres	0	0	0	0.0	TMT	6
KCl Brine	bbl	0	0	0	0.0	GO Offshore	2
Mud	sx	0	0	0	0.0	ECL	1
SBM Dril-In	bbl	0	0	0	0.0	Dril-Quip	2
NaCl Brine	bbl	0	0	0	0.0		
						Total	94

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
BOP Test	26	13 May 2008	1 Day	Commenced testing the BOP's as per programme.
Fire Drill		11 May 2008	3 Days	Held a fire drill and mustered in the mess prior to an abandon ship drill at the aft life boats. Discovered most people arrived without their life jackets and consequently, supply at secondary muster station nearly ran out. Brought up in weekly safety meeting to ensure off tour personnel bring their life jacket from room.
JHA		14 May 2008	0 Days	Drill crew - 9 Deck crew - 12 Sub Sea - 2 Welders - 3
Lost Time Incident		17 Nov 2006	544 Days	Last LTI on Ocean Patriot
Pre-Tour Meeting		14 May 2008	0 Days	Discussed picking up pipe and using mechanical aid where possible. Deck will be busy with crane operations and to keep an eye above. Use correct PPE in high noise areas or where signed.
PTW Issued		14 May 2008	0 Days	8 by cold work permits 9 by hot work permits
Safety Meeting		11 May 2008	3 Days	Held three weekly safety meetings with all POB. Discussed STOP program, Santos expectations over the coming campaign, using the correct 4 part shackles, look up and live, carrying your life jacket to the muster station on drills if you're off tour.
Santos Induction		14 May 2008	0 Days	David Crane / Rohan Richardson delivered three pre spud meetings with 85% POB attendance. Positive feedback from attendees was given.
Stop Observations	48	14 May 2008	0 Days	26 - Safe 22 - Corrective actions

Marine											
Weather check on 14 May 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	30km/h	350.0deg	1018.00bar	15.0C°	0.5m	350.0deg	3sec	1	1396.9	140.16	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	145.15	
0.6deg	0.6deg	0.50m	3.0m	235.0deg	9sec	Overcast		3	1431.0	160.12	
Rig Dir.	Ris. Tension	VDL		Comments				4	1417.9	133.81	
45.0deg		821.46mt						5	1428.0	170.10	
								6	1434.1	181.89	
								7	1421.0	170.10	
								8	1399.9	166.92	

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	16:00 hrs 13/05/08		Port side taking on backload.	Item	Unit	Quantity
				Fuel	m3	579
				Potable Water	m3	134
				Drill Water	m3	395
				Cement	mt	85
				HTB cement	mt	0
				Barite	mt	45
				Gel	mt	108
				KCl Brine	bbbls	0
				Mud	bbbls	0
Pacific Wrangler	16:00 hrs 13/05/08		Starboard side delivering bulks to rig	Item	Unit	Quantity
				Fuel	m3	593
				Potable Water	m3	175
				Drill Water	m3	346
				Cement	mt	0
				HTB cement	mt	107
				Barite	mt	0
				Gel	mt	42
				KCl Brine	bbbls	16
				Mud	bbbls	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	579
				Potable Water	m3	134

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BWJ	10:21	Jarver 1		2
BWJ	10:31	Wynyard		3

Lessons Learned				
Categories		Event Descr.	Post Event Descr.	Lesson
Short Descr.	Load share when running anchors	Implemented anchor chain load sharing procedure when running all eight anchors on Jarver 1. Operation went smoothly with minimal downtime or error. Recommend procedure be reviewed for any operation over 500 m water depth.		
Phase	Mob/Demob			
Category				
Resp. Party				
Closed/Open	Open			

From : Peter Devine / Rohan Richardson OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	0.0m	Current Hole Size	914mm
Field	Jarver	TVD	0.0m	Casing OD	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	
Rig	Ocean Patriot	Days from spud	0.00	Shoe TVD	
Water Depth (LAT)	576.1m	Days on well	2.33	F.I.T. / L.O.T.	/
RT-SL(LAT)	21.5m	Current Op @ 0600	Drill ahead 914 mm (36") conductor hole from 608 m RT.		
RT-ML	597.6m	Planned Op	Drill ahead conductor hole to 645 m RT. Conduct survey at TD, POOH to 615 m and re-survey well. RIH to section TD and displace well to PHG, POOH and rack back BHA. Make up conductor pipe, cement stinger and 762 mm (30") low pressure housing to PGB. RIH on 127 mm (5") drill pipe and land out PGB on TGB. Make up cement head to drill pipe and cement conductor.		
Rig Heading	45.0deg			Planned TD	3022.0m

Summary of Period 0000 to 2400 Hrs

Picked up 102 joints of 127 mm (5") drill pipe and racked back in derrick. Mixed 190.8 m3 (1200 bbls) of PHG mud and 32 m3 (200 bbls) of weighted kill mud. Picked up 914 mm (36") BHA, moved TGB to carrier and positioned in moon pool under rotary table. Spaced out 914 mm (36") bit in TGB, locked drill-ahead dogs, picked up TGB and ran through splash zone to 76 m RT. Jumped ROV and conducted visual inspection of TGB. Continued to run TGB to 400 m RT.

Operations For Period 0000 Hrs to 2400 Hrs on 15 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PS	P	PUP	0000	1000	10.00	0.0m	Picked up and racked back 34 stands of 127 mm (5") drill pipe in derrick. Simultaneous Operations: Took on bulk from Pacific Wrangler and Far Grip. Transferred drill water to mud tanks and started mixing PHG mud. Prepared TGB in moon pool and loaded barite onto TGB skid.
PS	P	SM	1000	1015	0.25	0.0m	Held pre job safety meeting prior to picking up BHA
PS	P	HBHA	1015	1300	2.75	0.0m	Picked up 15 joints of 127 mm (5") HWDP and racked back in derrick.
PS	P	HBHA	1300	2030	7.50	0.0m	Picked up 203 mm (8") drill collars and 241 mm (9 1/2") drill collars and racked back in derrick. Picked up remainder of BHA and set in rotary table.
PS	P	SM	2030	2045	0.25	0.0m	Held pre job safety meeting regarding latching and running TGB from moon pool.
PS	P	HBHA	2045	2130	0.75	0.0m	Positioned TGB under rotary table, lowered 914 mm (36") bit and spaced out in TGB, set drill ahead dogs, picked up TGB and skidded carrier.
PS	P	TI	2130	2400	2.50	0.0m	Ran TGB through splash zone to 76 m. Jumped ROV and conducted a visual inspection of TGB and drill ahead dogs, ok. Continued to run TGB to 400 m with ROV monitoring progress.

Operations For Period 0000 Hrs to 0600 Hrs on 16 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PS	P	TI	0000	0100	1.00	0.0m	Continued running TGB to sea bed from 400 m.
PS	TP	TI	0100	0230	1.50	0.0m	When the TGB was 70 m off sea bed, it was noticed that there was insufficient line on guide line tensioner #4 to land out. The ROV was surfaced and a cutting wheel attached. The ROV successfully cut the line above the tie off and the cable retrieved. Surfaced ROV & made up cutting tool. Cut Guideline #4 at TGB & retrieved same.
PS	P	SM	0230	0300	0.50	0.0m	Pre-Spud Meeting all crew.
PS	P	TI	0300	0445	1.75	0.0m	Continued to run the TGB to 5 m off sea bed. Checked bulls eye reading at 2 degrees.
PS	P	TI	0445	0530	0.75	0.0m	Checked orientation of TGB with ROV, heading 45 degrees, ok. Landed TGB with 2.3T (5000 lbs). Seabed depth recorded 597.6 mRT (LAT). The TGB started to lift off bottom with rig heave and a further 1.2T (2500 lbs) was added. This caused the bit to slack off from the dogs which closed two of them prematurely. Took survey.
CH	P	DA	0530	0600	0.50	608.0m	Spudded well with 1514 L/min (400 GPM), 80 RPM and 0.5 t (1100 lbs). Drilled to 608 m RT.

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	7	22	22	7.0	Santos	5
Gel	MT	69	19	0	50.0	DOGC	59
Cement	MT	82	0	0	82.0	Offshore Marine Services	2
HTB cement	MT	101	0	0	101.0	ESS	8
Fuel	M3	200	17	0	411.4	BHI	3
Potable Water	MT	17	27	0	364.0	Fugro	3
Drill Water	MT	782	369	0	593.0	Rheochem	1
Base Olefin	bbl	0	0	0	0.0	Dowell	2
SBM	bbl	0	0	0	0.0	TMT	6
PreMix SBM	bbl	0	0	0	0.0	ECL	1
Helifuel	Litres	0	0	0	0.0	Dril-Quip	2
KCl Brine	bbl	0	0	0	0.0	Total	92
Mud	sx	0	0	0	0.0		
SBM Dril-In	bbl	0	0	0	0.0		
NaCl Brine	bbl	0	0	0	0.0		

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
BOP Test		13 May 2008	2 Days	Commenced testing the BOP's as per programme.
Fire Drill		11 May 2008	4 Days	Held a fire drill and mustered in the mess prior to an abandon ship drill at the aft life boats. Discovered most people arrived without their life jackets and consequently, supply at secondary muster station nearly ran out. Brought up in weekly safety meeting to ensure off tour personnel bring their life jacket from room.
JHA	26	15 May 2008	0 Days	Drill crew - 4 Deck crew - 18 Mechanical - 4 Welders - 6 Painter - 5
Lost Time Incident		17 Nov 2006	545 Days	Last LTI on Ocean Patriot
Pre-Tour Meeting	4	15 May 2008	0 Days	Discussed handling BHA and associated safety hazards. Man riding and using the permit to work system. Discussed picking up pipe and using mechanical aid where possible.
PTW Issued	17	15 May 2008	0 Days	10 by cold work permits 8 by hot work permits
Safety Meeting	3	11 May 2008	4 Days	Held three weekly safety meetings with all POB. Discussed STOP program, Santos expectations over the coming campaign, using the correct 4 part shackles, look up and live, carrying your life jacket to the muster station on drills if you're off tour.
Santos Induction	3	14 May 2008	1 Day	David Crane / Rohan Richardson delivered three pre spud meetings with 85% POB attendance. Positive feedback from attendees was given.
Stop Observations	48	15 May 2008	0 Days	38 - Safe 20 - Corrective actions

Marine										
Weather check on 15 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	30km/h	45.0deg	1006.00bar	14.0C°	1.5m	45.0deg	3sec	1	1396.9	137.89
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	143.79
0.5deg	0.4deg	0.50m	3.0m	220.0deg	9sec	Overcast		3	1431.0	175.09
								4	1417.9	132.90
Rig Dir.	Ris. Tension	VDL		Comments				5	1428.0	162.84
45.0deg		1015.59mt						6	1434.1	172.82
								7	1421.0	171.91
								8	1399.9	170.10

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		18:30 hrs 15/05/2008	On sail to Burnie	Item	Unit	Quantity
				Fuel	m3	563
				Potable Water	m3	35
				Drill Water	m3	0
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	38
				Gel	mt	29
				KCl Brine	bbbs	0
				Mud	bbbs	0
Pacific Wrangler	12:30 hrs 15/05/08		On sail to Portland	Item	Unit	Quantity
				Fuel	m3	385
				Potable Water	m3	77
				Drill Water	m3	151
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	42
				KCl Brine	bbbs	16
				Mud	bbbs	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	121
				Potable Water	m3	32

Helicopter Movement

Flight #	Time	Destination	Comment	Pax
BWJ	10:32	Jarver 1		8
BWJ	10:32	Wynyard		10

From : Peter Devine / Rohan Richardson
OIM : Dennis Gore
Well Data

Country	Australia	Measured Depth	645.0m	Current Hole Size	914mm	
Field	Jarver	TVD	645.0m	Casing OD		
Drill Contractor	DOGC	Progress	47.5m	Shoe MD		
Rig	Ocean Patriot	Days from spud	0.77	Shoe TVD		
Water Depth (LAT)	576.2m	Days on well	3.33	F.I.T. / L.O.T.	/	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Attach rope from conductor pipe to each guide line prior to landing out well head housing in PGB			
RT-ML	597.7m	Planned Op	Land wellhead housing in PGB and secure. RIH conductor and land out PGB on TGB. Cement casing, check floats and orientation of PGB bullseye, POOH running tool. Make up 660 mm (26") BHA and RIH			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Continued to run TGB to sea bed from 400 m RT. At 537 m it was noticed that guide line #4 had insufficient length to land out TGB. Surfaced ROV and made up cutting tool, cut guide line #4 at TGB and retrieved same. Continued running TGB and landed out with 2.3 t (5000 lbs). Released drill ahead dogs and drilled conductor hole to 647 m RT, surveyed well, 0 degrees. Displaced well to PHG and POOH, racked back BHA in derrick. Picked up cement stand and racked back in derrick. Held pre job safety meeting and positioned PGB on carrier under rotary table in moon pool. Made up 762 mm (30") handling equipment and held pre job safety meeting. Due to poor weather, rigged down 762 mm (30") handling gear and rigged up to run 127 mm (5") drill pipe. Picked up and racked back 54 joints of 127 mm (5") drill pipe.

Operations For Period 0000 Hrs to 2400 Hrs on 16 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PS	P	TI	0000	0100	1.00	0.0m	Continued running TGB to sea bed from 400 m.
PS	TP (OTH)	TI	0100	0230	1.50	0.0m	When the TGB was 70 m off sea bed, it was noticed that there was insufficient line on guide line tensioner #4 to land out. Surfaced ROV and made up cutting tool. Cut guideline #4 at TGB and retrieved same.
PS	P	SM	0230	0300	0.50	0.0m	Held pre spud meeting with drill crew and third party.
PS	P	TI	0300	0445	1.75	0.0m	Continued to run TGB to 5 m off sea bed. Checked TGB bulls eye reading at 2 degrees. Checked orientation of TGB with ROV, heading 45 degrees, ok.
PS	P	TI	0445	0530	0.75	0.0m	Landed TGB with 2.3 t (5000 lbs). Sea bed depth recorded 597.5 m RT (LAT). The TGB started to lift off bottom with rig heave and a further 1.2 t (2500 lbs) was added. This caused the bit to slack off from the dogs which closed two of them prematurely. Took survey.
CH	P	DA	0530	0730	2.00	615.0m	Spudded well with 1514 L/min (400 GPM), 80 RPM and 0.5 t (1100 lbs). Drilled to 615 m RT.
CH	TP (OTH)	DA	0730	0830	1.00	615.0m	While drilling ahead from 615 m, guide line #2 hung up on the drill string approximately 250 m RT due to mid depth current. Stopped rotation and guide line came free. Increased tension on guide lines to 9.34 kdaN (24 000 lbf). Conducted visual inspection of guide line with ROV, ok.
CH	P	DA	0830	1030	2.00	645.0m	Continued to drill 914 mm (36") conductor hole from 615 m RT to section TD at 645 m RT with 3028 L/min (800 GPM), 90 RPM and 2 t (2200 lbs).
CH	P	SVY	1030	1200	1.50	645.0m	Back reamed hole from 645 m to 605 m. RIH and took survey.
CH	P	DIS	1200	1300	1.00	645.0m	Displaced well to PHG mud
CH	P	TO	1300	1430	1.50	645.0m	Held pre job safety meeting and POOH from 645 m to top of drill collars at 123 m
CH	P	HBHA	1430	1600	1.50	645.0m	Held pre job safety meeting and POOH 914 mm (36") BHA from 123 m and racked back in derrick.
CH	P	HBHA	1600	1630	0.50	645.0m	Picked up cement stand and racked back in derrick
CH	P	WH	1630	1700	0.50	645.0m	Held pre job safety meeting and positioned PGB on carrier under rotary table.
CH	P	RRC	1700	1800	1.00	645.0m	Held pre job safety meeting and rigged up 762 mm (30") casing handling equipment
CH	TP (WOW)	PUP	1800	1900	1.00	645.0m	Rigged down 762 mm (30") casing handling equipment and rigged up to run 127 mm (5") drill pipe due to weather conditions preventing standby vessel operations.
CH	P	HBHA	1900	1930	0.50	645.0m	Picked up 914mm (36") rock bit and serviced, racked back in derrick.
CH	P	PUP	1930	2400	4.50	645.0m	Held prejob safety meeting and picked up 54 joints of 127 mm (5") drill pipe.

Operations For Period 0000 Hrs to 0600 Hrs on 17 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
CH	P	PUP	0000	0130	1.50	645.0m	Continued to pick up 127 mm (5") drill pipe and racked back in derrick, 55 stands of pipe racked back.
CH	P	RRC	0130	0230	1.00	645.0m	Held pre job safety meeting and changed out 127 mm (5") handling gear for 762 mm (30") handling gear.
CH	P	CRN	0230	0600	3.50	645.0m	(IN PROGRESS) Made up 762 mm (30") conductor shoe, intermediate joint, xover joint from D60 to D90 multi thread and landing joint with wellhead housing and running tool. Picked up conductor and secured ropes underneath PGB in moon pool to guide lines. Checked floats on conductor shoe, ok.

WBM Data											
Mud Type:	SW / PHG Sweeps	API FL:		KCl:		Solids:	3.1	Viscosity:			0sec/L
Sample-From:	Pits	Filter-Cake:		Hard/Ca:	60	H2O:	97%	PV:			0.014Pa/s
Time:	08:00	HTHP-FL:		MBT:		Oil:		YP:			0.302MPa
Weight:	1.05sg	HTHP-Cake:		PM:		Sand:		Gels 10s:			0.216
Temp:	65.0C°			PF:	0.05	pH:	7.5	Gels 10m:			0.287
						PHPA:		Fann 003:			41
								Fann 006:			52
								Fann 100:			69
								Fann 200:			75
								Fann 300:			77
								Fann 600:			91
Comment Spudded well with PHG mud and pumped 36.5 m3 (230 bbls) prior to changing over to sea water. Pumped 7.0 m3 (50 bbl) sweeps mid stand and 15.0 m3 (100 bbl) sweeps at connections. Displace well to PHG mud and POOH.											

Bit # 1				Wear	I	O1	D	L	B	G	O2	R	
					0	0	NO		0	I	NO	TD	
Size:	914mm	IADC#	111	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run				
Mfr:	VAREL	WOB(avg)	1.81mt	No.	Size	Progress		47.5m	Cum. Progress		47.5m		
Type:	Rock	RPM(avg)	88			On Bottom Hrs		5.10h	Cum. On Btm Hrs		5.10h		
Serial No.:	742636	F.Rate	2090lpm			IADC Drill Hrs		4.00h	Cum IADC Drill Hrs		4.00h		
Bit Model		SPP	3103kPa			Total Revs				Cum Total Revs		0	
Depth In	597.5m	TFA	0.000			ROP(avg)		9.31 m/hr	ROP(avg)		9.31 m/hr		
Depth Out	645.0m												
Bitwear Comment		Jets were left open											

BHA # 1							
Weight(Wet)	33.57mt	Length	264.0m	Torque(max)	4080.0Nm	D.C. (1) Ann Velocity	0mpm
Wt Below Jar(Wet)		String		Torque(Off.Btm)	2448.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up		Torque(On.Btm)	3808.0Nm	H.W.D.P. Ann Velocity	0mpm
		Slack-Off				D.P. Ann Velocity	0mpm
BHA Run Comment		NMDC run to allow BHA to be racked back for 660 mm (26") hole					
Equipment		Length	OD	ID	Serial #	Comment	
Bit		1.25m	914mm				
Hole Opener		2.39m	914mm	70mm	46450		
Bit Sub		0.91m	235mm	76mm	GUD1211-4		
Anderdrift		3.12m	238mm	76mm	ADB916		
Drill Collar		28.53m	241mm	76mm			
X/O		1.08m	245mm	76mm	D1220-2		
NMDC		9.45m	210mm	83mm	5553		
Drill Collar		75.47m	203mm	73mm	DO-1080		
X/O		1.09m	207mm	76mm	GUD12204		
HWDP		139.62m	165mm	76mm		OD on pipe varies from 6.1" - 6.825"	

Bulk Stocks						Personnel On Board					
Name	Unit	In	Used	Adjust	Balance	Company				Pax	
Barite	MT	0	0	0	7.0	Santos				4	
Gel	MT	0	0	0	50.0	DOGC				56	
Cement	MT	0	0	0	82.0	Offshore Marine Services				4	
HTB cement	MT	0	0	0	101.0	ESS				8	
Fuel	M3	0	0	0	411.4	BHI				3	
Potable Water	M3	0	0	0	0.0	Fugro				1	
Drill Water	M3	0	0	0	0.0	Rheochem				2	
Helifuel	Litres	0	0	0	0.0	Dowell				2	
Mud	M3	0	0	0	0.0	TMT				6	
						ECL				1	
						Dril-Quip				2	
						Premium Casing Services				2	
Total										91	

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	645.00/645.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
BOP Test		13 May 2008	3 Days	Commenced testing the BOP's as per programme.
Fire Drill		11 May 2008	5 Days	Held a fire drill and mustered in the mess prior to an abandon ship drill at the aft life boats. Discovered most people arrived without their life jackets and consequently, supply at secondary muster station nearly ran out. Brought up in weekly safety meeting to ensure off tour personnel bring their life jacket from room.
JHA	26	16 May 2008	0 Days	Drill crew - 7 Deck crew - 2 Welders - 6 Painter - 1
Lost Time Incident	4	17 Nov 2006	546 Days	Last LTI on Ocean Patriot
Pre-Tour Meeting		16 May 2008	0 Days	Reviewed JSA for picking up 30" riser. Discussed working in the rain, communication and correct PPE with wet weather gear.
PTW Issued	16	16 May 2008	0 Days	8 by cold work permits 8 by hot work permits
Safety Meeting	3	11 May 2008	5 Days	Held three weekly safety meetings with all POB. Discussed STOP program, Santos expectations over the coming campaign, using the correct 4 part shackles, look up and live, carrying your life jacket to the muster station on drills if you're off tour.
Santos Induction	1	16 May 2008	0 Days	Peter Devine held a Santos induction after the Ocean Patriot safety brief with new personnel to the rig.
Stop Observations	45	16 May 2008	0 Days	21 - Safe 24 - Corrective actions

Shakers, Volumes and Losses Data				Engineer :			
Available	313.9m³	Losses	98.4m³	Equip.	Descr.	Mesh Size	Hours
Active	78.7m³	Downhole	0.0m³				
Mixing	41.7m³	Surf+ Equip					
Hole		Dumped					
Slug	193.5m³	De-Sander					
Reserve		De-Silter					
Kill	Centrifuge						
	Returns to sea bed	98.4m³					

Marine										
Weather check on 16 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
14.8km	65km/h	310.0deg	1018.00bar	14.0C°	2.0m	310.0deg	3sec	1	1396.9	138.80
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	146.06
0.9deg	0.5deg	0.70m	3.0m	240.0deg	9sec	Rain		3	1431.0	171.91
Rig Dir.	Ris. Tension	VDL	Comments		4			1417.9	133.81	
45.0deg		1002.44mt			5			1428.0	162.84	
					6			1434.1	174.18	
					7	1421.0	175.09			
					8	1399.9	171.91			

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		18:30 hrs 15/05/2008	Expected port side Ocean Patriot 08:30 17/05/2008	Item	Unit	Quantity
				Fuel	m3	536
				Potable Water	m3	300
				Drill Water	m3	100
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	29
				KCl Brine	bbbls	0
				Mud	bbbls	0
Pacific Wrangler	12:30 hrs 15/05/08		Expected port side Ocean Patriot at 16:00 hrs 17/05/2008	Item	Unit	Quantity
				Fuel	m3	384.95
				Potable Water	m3	77
				Drill Water	m3	151
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	42
				KCl Brine	bbbls	16
				Mud	bbbls	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	120
				Potable Water	m3	18

Helicopter Movement

Flight #	Time	Destination	Comment	Pax
BWJ	10:32	Jarver 1		8
BWJ	10:32	Wynyard		9

From : Peter Devine / Rohan Richardson OIM : Dennis Gore						
Well Data						
Country	Australia	Measured Depth	645.0m	Current Hole Size	660mm	
Field	Jarver	TVD	645.0m	Casing OD	762mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	643.0m	
Rig	Ocean Patriot	Days from spud	1.77	Shoe TVD	643.0m	
Water Depth (LAT)	576.2m	Days on well	4.33	F.I.T. / L.O.T.	/	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600 Continue to RIH with 660 mm (26") BHA from 550 m.				
RT-ML	597.7m	Planned Op Drill out 762 mm (30") conductor shoe and drill ahead 660 mm (26") surface hole.				
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Picked up and racked back 19 stands of 127 mm (5") drill pipe. Changed out handling gear for 762 mm (30"). Made up 762 mm (30") conductor, ran 127 mm (5") drill pipe cement stinger with C-plate inside conductor, made up 762 mm (30") running tool to cement stinger and low pressure wellhead housing. Picked up running tool and landed in PGB, secured same. Picked up PGB and RIH, landed out PGB on TGB. Released running tool and POOH. Commenced laying out 914 mm (36") BHA.

Operations For Period 0000 Hrs to 2400 Hrs on 17 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
CH	P	PUP	0000	0130	1.50	645.0m	Continued to pick up 127 mm (5") drill pipe and racked back in derrick, 55 stands of pipe racked back.
CH	P	RRC	0130	0230	1.00	645.0m	Held pre job safety meeting and changed out 127 mm (5") handling gear for 762 mm (30") handling gear.
CH	P	CRN	0230	0900	6.50	645.0m	Made up 762 mm (30") conductor shoe, intermediate joint, xover joint from D60 to D90 multi thread and landing joint with wellhead housing and running tool. Picked up conductor and secured ropes underneath PGB in moon pool to guide lines. Checked floats on conductor shoe, ok.
CH	P	CRN	0900	1030	1.50	645.0m	Ran 4 joints of 127 mm (5") drill pipe into conductor with C plate. Made up 762 mm (30") running tool to drill pipe stinger and conductor pipe.
CH	P	CRN	1030	1130	1.00	645.0m	Lowered 762 mm (30") conductor into PGB, secured same. Picked up and ran PGB below splash zone, filled conductor with sea water, picked up to moon pool while pumping at maximum rate and shut ball valve on running tool.
CH	P	CRN	1130	1330	2.00	645.0m	Ran 762 mm (30") casing with PGB down to TGB.
CH	P	CRN	1330	1530	2.00	645.0m	Unable to stab 762 mm (30") conductor shoe into TGB, rig moved 4 m off location due to poor weather. Adjusted rig anchor chains to centre rig and stabbed conductor shoe with assistance of the ROV.
CH	P	CRN	1530	1630	1.00	645.0m	Continued to RIH with conductor, hole in good condition, no fill. Landed out PGB on TGB and set down 27 kdaN (60 klbs). ROV showed bullseye reading on PGB at 0.25 degrees, heading 135 degrees.
CH	P	CMC	1630	1700	0.50	645.0m	Held pre job safety meeting, rigged up cement head and lines.
CH	P	CMC	1700	1900	2.00	645.0m	Broke circulation with rig pumps and pumped 0.8 m3 (5 bbls) seawater. Pressure tested lines to 6.9 MPa (1000 psi) for 5 min. Changed over to cement unit and pumped 12 m3 (75 bbls) sea water spacer. Mixed and pumped 31.8 m3 (202 bbls) of tail slurry at 1.9 sg (15.8 ppg). Displaced cement with 8.4 m3 (53 bbls) of sea water. Bleed back 0.12 m3 (3/4 bbls), floats holding.
CH	P	CMC	1900	2030	1.50	645.0m	Released 762 mm (30") running tool, POOH from 594 m to surface.
							Simultaneous operations: ROV showed bullseye reading after running tool unlatched, aft indicator showed 0.25 degrees heading 130 degrees, starboard indicator showed 0.25 degrees heading 135 degrees.
CH	P	CMC	2030	2100	0.50	645.0m	Laid down running tool and racked back cement stinger
CH	P	CMC	2100	2230	1.50	645.0m	Made up 476 mm (18 3/4") running tool and racked back in derrick.
CH	P	CMC	2230	2300	0.50	645.0m	Laid down cement stand
CH	P	HBHA	2300	2400	1.00	645.0m	Commenced laying down 914 mm (36") BHA

Operations For Period 0000 Hrs to 0600 Hrs on 18 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
CH	P	HBHA	0000	0100	1.00	645.0m	Laid out 914 mm (36") BHA and serviced bit.
SH	P	HBHA	0100	0200	1.00	645.0m	Made up 660 mm (26") BHA and painted bit white. Tied off ropes from first drill collar to guide lines.
SH	P	TI	0200	0600	4.00	645.0m	(IN PROGRESS) RIH 660 mm (26") BHA to 635 m, broke circulation and tagged cement at 642 m with 4.4 kdaN (10 klbs).

General Comments		
Comments	Rig Requirements	Lessons Learnt
The final report for rig positioning has been submitted: Latitude - 041deg20'27.251" Longitude - 144deg14'03.190" Northing - 5418350.393 Easting - 770615.074 The position is 8.56 m on a bearing of 207.3 degrees from the intended location. Final rig heading: 044.68 degrees.		

WBM Data							
Mud Type:	SW / PHG Sweeps	API FL:	KCl:	Solids:	3	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	Hard/Ca:	H2O:	97%	PV:	0.018Pa/s
Time:	22:00	HTHP-FL:	MBT:	Oil:		YP:	0.326MPa
Weight:	1.05sg	HTHP-Cake:	PM:	Sand:		Gels 10s:	0.244
Temp:	65.0C°		PF:	pH:	9.5	Gels 10m:	0.278
				PHPA:		Fann 003:	59
						Fann 006:	60
						Fann 100:	75
						Fann 200:	81
						Fann 300:	86
						Fann 600:	104
Comment Prepared 236 bbl PHG for 26" hole section. Recieved 23 t of bentonite.							

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	"V" Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
645.00	0.0		645.00	0.00	0.00	0.00	0.00	

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	7.0	Santos	4
Gel	MT	15	0	0	65.0	DOGC	56
Cement	MT	0	37	0	45.0	Offshore Marine Services	4
HTB cement	MT	0	0	0	101.0	ESS	8
Fuel	M3	0	27.4	0	384.0	BHI	3
Potable Water	MT	0	48	0	316.0	Fugro	1
Drill Water	MT	144	0	0	737.0	Rheochem	2
Helifuel	Litres	0	0	0	0.0	Dowell	2
KCl Brine	bbl	0	0	0	0.0	TMT	6
Mud	sx	0	0	0	0.0	ECL	1
						Dril-Quip	2
						Premium Casing Services	2
						Total	91

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	645.00/645.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
BOP Test	35	13 May 2008	4 Days	Commenced testing the BOP's as per programme.
Fire Drill		11 May 2008	6 Days	Held a fire drill and mustered in the mess prior to an abandon ship drill at the aft life boats. Discovered most people arrived without their life jackets and consequently, supply at secondary muster station nearly ran out. Brought up in weekly safety meeting to ensure off tour personnel bring their life jacket from room.
JHA		17 May 2008	0 Days	Drill crew - 8 Deck crew - 13 Welders - 7 Painter - 2 Mechanic - 5
Lost Time Incident	4	17 Nov 2006	547 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting		17 May 2008	0 Days	Discussed working in adverse weather conditions, mixing chemicals and wearing the appropriate PPE, good communication on the drill floor when handling BHA and keep clear of rig tongs when under tension. Use face shield when using the sledge hammer to make and break hammer unions.
PTW Issued	17	17 May 2008	0 Days	6 by cold work permits 11 by hot work permits
Safety Meeting	3	11 May 2008	6 Days	Held three weekly safety meetings with all POB. Discussed STOP program, Santos expectations over the coming campaign, using the correct 4 part shackles, look up and live, carrying your life jacket to the muster station on drills if you're off tour.
Santos Induction	1	16 May 2008	1 Day	Peter Devine held a Santos induction after the Ocean Patriot safety brief with new personnel to the rig.
Stop Observations	46	17 May 2008	0 Days	23 - Safe 23 - Corrective actions

Shakers, Volumes and Losses Data				Engineer :			
Available	329.3m ³	Losses	31.5m ³	Equip.	Descr.	Mesh Size	Hours
Active	78.7m ³	Downhole	0.0m ³				
Mixing		Surf+ Equip					
Hole	19.6m ³	Dumped					
Slug		De-Sander					
Reserve	231.0m ³	De-Silter	31.5m ³				
Kill		Centrifuge					
		Returns to sea bed					

Marine										
Weather check on 17 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
11.1km	56km/h	290.0deg	1000.00bar	13.0C°	2.0m	290.0deg	3sec	1	1396.9	137.89
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	143.79
0.5deg	0.5deg	0.40m	2.5m	270.0deg	9sec	Rain		3	1431.0	170.10
Rig Dir.	Ris. Tension	VDL	Comments					4	1417.9	132.90
45.0deg		1018.77mt						5	1428.0	161.93
								6	1434.1	171.91
								7	1421.0	171.00
								8	1399.9	169.19

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	08:30 hrs 17/05/2008		Starboard side unloading 508 mm (20") CSG	Item	Unit	Quantity
				Fuel	m3	524
				Potable Water	m3	63
				Drill Water	m3	100
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	0
				KCl Brine	bbbls	0
				Mud	bbbls	0
Pacific Wrangler			Expected port side Ocean Patriot at 16:00 hrs 18/05/2008	Item	Unit	Quantity
				Fuel	m3	535
				Potable Water	m3	208
				Drill Water	m3	346
				Cement	mt	42
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	80
				KCl Brine	bbbls	1300
				Mud	bbbls	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	119.1
				Potable Water	m3	30

Helicopter Movement

Flight #	Time	Destination	Comment	Pax
BWJ		Jarver 1	No flights on weekend	
BWJ		Wynyard	No flights on weekend	

From : Peter Devine / Rohan Richardson OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	1085.0m	Current Hole Size	660mm
Field	Jarver	TVD	1085.0m	Casing OD	762mm
Drill Contractor	DOGC	Progress	440.0m	Shoe MD	643.0m
Rig	Ocean Patriot	Days from spud	2.77	Shoe TVD	643.0m
Water Depth (LAT)	576.2m	Days on well	5.33	F.I.T. / L.O.T.	/
RT-SL(LAT)	21.5m	Planned TD	3022.0m		
RT-ML	597.7m	Current Op @ 0600	Drill ahead 660 mm (26") surface hole from 1135 m.		
Rig Heading	45.0deg	Planned Op	Drill 660 mm (26") surface hole to section TD at 1405 m and displace well to PHG. POOH to conductor shoe. Pending weather and vessel movement, conduct wiper trip picking up singles from pipe deck.		

Summary of Period 0000 to 2400 Hrs

Laid out 914 mm (36") BHA, made up 660 mm (26") BHA and RIH to 635 m. Broke circulation and tagged cement at 642 m. Held shallow gas meeting and drilled cement and float shoe. Drilled ahead surface hole to 1085 m.

Operations For Period 0000 Hrs to 2400 Hrs on 18 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
CH	P	HBHA	0000	0100	1.00	645.0m	Laid out 914 mm (36") BHA and serviced bit.
SH	P	HBHA	0100	0200	1.00	645.0m	Made up 660 mm (26") BHA and painted bit white. Tied off ropes from first drill collar to guide lines.
SH	P	TI	0200	0700	5.00	645.0m	RIH 660 mm (26") BHA to 635 m, broke circulation and tagged cement at 642 m with 4.4 kdaN (10 klbs).
SH	P	SM	0700	0730	0.50	645.0m	Held safety meeting prior to drill out and discussed shallow gas procedures.
SH	P	RS	0730	0800	0.50	645.0m	Performed rig service on top drive and drill string compensator.
SH	P	DFS	0800	0900	1.00	645.0m	Drilled cement and float shoe from 642 m to 645 m.
SH	P	DA	0900	2400	15.00	1085.0m	Drilled ahead surface hole from 645 m to 1085 m. Back reamed stands as required and pumped 12 m3 (75 bbls) PHG sweeps at connections and 12 m3 (75 bbl) guar gum sweeps mid stand. Drilling parameters: WOB 6 - 9 t (15-20 klbs), 120 - 130 RPM, 4542 L/min (1200 GPM). Simultaneous Operations: Held weekly evacuation drill at 10:30 hrs on shallow gas abandonment Loaded sub sea plugs into basket and darts into Dowell cement head.

Operations For Period 0000 Hrs to 0600 Hrs on 19 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SH	P	DA	0000	0600	6.00	1135.0m	Drilled ahead surface hole from 1085 m to 1135 m. Back reamed stands as required and pumped 12 m3 (75 bbls) PHG sweeps at connections and 12 m3 (75 bbl) guar gum sweeps mid stand. Drilling parameters: WOB 6 - 9 t (15-20 klbs), 120 - 130 RPM, 4542 L/min (1200 GPM).

General Comments

Comments	Rig Requirements	Lessons Learnt
Please note: The units for bulks are generated imperial automatically. When changed to metric the stock amount is zeroed. The previous amounts have been input into the adjustment column to balance.		

WBM Data

Mud Type:	SW / PHG Sweeps	API FL:	KCl:	Solids:	3	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	Hard/Ca:	H2O:	97%	PV:	0.014Pa/s
Time:	19:00	HTHP-FL:	MBT:	Oil:		YP:	0.374MPa
Weight:	1.05sg	HTHP-Cake:	PM:	Sand:		Gels 10s:	0.259
Temp:	65.0C°		PF:	pH:	10	Gels 10m:	0.263
				PHPA:		Fann 003:	66
						Fann 006:	72
						Fann 100:	84
						Fann 200:	88
						Fann 300:	92
						Fann 600:	106
Comment	Mixed 3.5 ppb guar gum in preparation for drilling 26" hole. Pumped 75 bbl guar gum sweeps mid stand and 75 bbl PHG sweeps at connections. Guar gum concentration was reduced to 3 ppb once drilling. Gel concentrations were 25-30 ppb.						

Bit # 2				Wear	I	O1	D	L	B	G	O2	R
Size:	660mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	SMITH	WOB(avg)	3.54mt	No.	Size	Progress		440.0m	Cum. Progress		440.0m	
Type:	Rock	RPM(avg)	104	4	24/32nd"	On Bottom Hrs		11.50h	Cum. On Btm Hrs		11.50h	
Serial No.:	MZ6452	F.Rate	4440lpm			IADC Drill Hrs		15.00h	Cum IADC Drill Hrs		15.00h	
Bit Model	XR+	SPP	15920kPa			Total Revs			Cum Total Revs		0	
Depth In	645.0m	TFA	1.767			ROP(avg)		38.26 m/hr	ROP(avg)		38.26 m/hr	
Depth Out												

BHA # 2											
Weight(Wet)	29.26mt	Length	260.0m	Torque(max)	13056.0Nm	D.C. (1) Ann Velocity	14.41mpm				
Wt Below Jar(Wet)		String	106.59mt	Torque(Off.Btm)	1632.0Nm	D.C. (2) Ann Velocity	14.96mpm				
		Pick-Up	108.86mt	Torque(On.Btm)	10608.0Nm	H.W.D.P. Ann Velocity	13.46mpm				
		Slack-Off	106.59mt			D.P. Ann Velocity	13.46mpm				

BHA Run Description						Slick BHA with NMDC for EMS at section TD					
Equipment		Length	OD	ID	Serial #	Comment					
Bit		0.66m	660mm		MZ6452	OD on pipe varies from 6.1" - 6.825"					
Bit Sub		0.91m	235mm	76mm	GUD1211-4						
Anderdrift		3.12m	238mm	76mm	ADB916						
Drill Collar		28.53m	241mm	76mm							
X/O		1.08m	245mm	76mm	D1220-2						
NMDC		9.45m	210mm	83mm	5553						
Drill Collar		75.47m	203mm	73mm	DO-1080						
X/O		1.09m	207mm	76mm	GUD12204						
HWDP		139.62m	165mm	76mm							

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
804.00	0.5		804.00	0.69	0.31	0.69	0.00	
890.00	0.0		890.00	1.07	0.58	1.07	0.00	
956.00	0.5		956.00	1.36	0.76	1.36	0.00	
1006.00	0.0		1006.00	1.57	1.00	1.57	0.00	
1035.00	0.5		1035.00	1.70	1.72	1.70	0.00	

Bulk Stocks						Personnel On Board					
Name	Unit	In	Used	Adjust	Balance	Company				Pax	
Barite	MT	0	0	65	72.0	Santos				4	
Gel	MT	0	23	81	123.0	DOGC				56	
Cement	MT	0	0	69	114.0	Offshore Marine Services				4	
HTB cement	MT	0	0	104	205.0	ESS				8	
Fuel	M3	0	22	0	362.0	BHI				3	
Potable Water	M3	0	24	315	291.0	Fugro				1	
Drill Water	M3	0	118	737	619.0	Rheochem				2	
Helifuel	Litres	0	0	0	0.0	Dowell				2	
KCl Brine	M3	0	0	0	0.0	TMT				6	
Mud	M3	0	0	0	0.0	ECL				1	
						Dril-Quip				2	
						Premium Casing Services				2	
						Total				91	

Casing											
OD		L.O.T. / F.I.T.		Casing Shoe (MD/TVD)		Cementing					
762mm		/		645.00/645.00		As per cement IDS report					

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill	26	18 May 2008	0 Days	Held shallow gas abandonment drill. All personnel mustered in galley and were evacuated by helicopter.
JHA		18 May 2008	0 Days	Drill crew - 7 Deck crew - 13 Welders - 6
Lost Time Incident	4	17 Nov 2006	548 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting		18 May 2008	0 Days	Discussed drilling operations and working around rotary. Wearing the correct PPE when mixing chemicals and use correct lifting techniques.
PTW Issued	20	18 May 2008	0 Days	10 by cold work permits 10 by hot work permits
Safety Meeting	3	18 May 2008	0 Days	Reviewed stop cards for the week and awarded Santos best stop card to Nicholas King. Reviewed safety alerts and discussed shallow gas and the abandonment drill held earlier. Diamond showed safety statistics of all diamond operations worldwide.
Santos Induction	2	18 May 2008	0 Days	Held 2 by Santos inductions for the remaining crew who missed out on the initial pre spud.
Stop Observations	56	18 May 2008	0 Days	31 - Safe 25 - Corrective actions

Shakers, Volumes and Losses Data				Engineer :			
Available	311.9m ³	Losses	357.2m ³	Equip.	Descr.	Mesh Size	Hours
Active	130.7m ³	Downhole					
Mixing		Surf+ Equip	0.0m ³				
Hole		Dumped					
Slug		De-Sander					
Reserve	181.2m ³	De-Silter					
Kill		Centrifuge					
		Returns to sea bed	357.2m ³				

Marine											
Weather check on 18 May 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	56km/h	280.0deg	1009.00bar	12.0C°	2.0m	280.0deg	3sec	1	1396.9	136.99	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	142.88	
1.0deg	0.9deg	0.60m	5.0m	260.0deg	9sec	Mainly cloudy		3	1431.0	169.19	
Rig Dir.					Ris. Tension			4	1417.9	133.81	
VDL					Comments			5	1428.0	166.92	
45.0deg								6	1434.1	171.91	
								7	1421.0	171.00	
								8	1399.9	166.92	

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	08:30 hrs 17/05/2008		On standby, waiting on weather to unload casing and bulk.	Item	Unit	Quantity
				Fuel	m3	512
				Potable Water	m3	55
				Drill Water	m3	0
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	0
				KCl Brine	bbbls	0
				Mud	bbbls	0
Pacific Wrangler	12:35 hrs 18/05/2008		On standby, waiting on weather to unload drill water, containers and steel plate for decking.	Item	Unit	Quantity
				Fuel	m3	512
				Potable Water	m3	200
				Drill Water	m3	346
				Cement	mt	42
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	80
				KCl Brine	bbbls	1300
				Mud	bbbls	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	118
				Potable Water	m3	28

Helicopter Movement

Flight #	Time	Destination	Comment	Pax
BWJ		Jarver 1	No flights on weekend	
BWJ		Wynyard	No flights on weekend	

From : Peter Devine / Rohan Richardson
OIM : Dennis Gore
Well Data

Country	Australia	Measured Depth	1407.0m	Current Hole Size	660mm	
Field	Jarver	TVD	1407.0m	Casing OD	762mm	
Drill Contractor	DOGC	Progress	322.0m	Shoe MD	643.0m	
Rig	Ocean Patriot	Days from spud	3.77	Shoe TVD	643.0m	
Water Depth (LAT)	576.2m	Days on well	6.33	F.I.T. / L.O.T.	/	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Rig up to run drill pipe from catwalk.			
RT-ML	597.7m	Planned Op	Pick up 1150 m of drill pipe from catwalk and rack back in derrick, pick up EDPHOT and cement stand and rack back. Wait on weather to offload 508 mm (20") surface casing from Far Grip.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Drilled ahead surface hole from 1085 m to section TD at 1407 m. Pumped PHG sweep, displaced well to PHG and spotted KCL pill on bottom, dropped EMS survey tool and POOH to conductor shoe. Due to poor weather and not being able to offload support vessels, commenced picking up drill pipe and RIH to 693 m.

Operations For Period 0000 Hrs to 2400 Hrs on 19 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SH	P	DA	0000	1530	15.50	1407.0m	Drilled ahead 660mm (26") surface hole from 1085 m to section TD at 1407 m. Back reamed stands as required and pumped 12 m3 (75 bbls) PHG sweeps at connections and 12 m3 (75 bbl) guar gum sweeps mid stand. Surveyed well every second connection. Drilling parameters: WOB 6 - 11 t (15-25 klbs), 120 - 150 RPM, 4542 L/min (1200 GPM).
SH	P	CHC	1530	1630	1.00	1407.0m	Pumped 31.5 m3 (195 bbl) of 1.2 sg (10ppg) PHG sweep and displaced with 281 m3 (1771 bbl) sea water.
SH	P	DIS	1630	1730	1.00	1407.0m	Pumped 175 m3 (1106 bbl) of 1.05 sg (8.7 ppg) PHG at 4542 L/min (1200 GPM).
SH	P	DIS	1730	1800	0.50	1407.0m	Pumped and spotted 9.5 m3 (60 bbl) KCL pill on bottom displacing drill pipe with 12 m3 (75 bbl) of 1.05 sg (8.7 ppg) PHG.
SH	P	SVY	1800	1900	1.00	1407.0m	Broke tool joint connection and dropped EMS survey tool. RIH to TD and waited on tool timer.
SC	P	TO	1900	2300	4.00	1407.0m	POOH from 1407 m to 633 m. Worked tight hole at 1229 m, 1110 m, 1024 m, 990 m and 945 m. Max overpull 13 kdaN (30 klbf).
SC	P	TI	2300	2400	1.00	1407.0m	Held pre job safety meeting and rigged up to RIH singles. Commenced picking up drill pipe from deck and RIH to 693 m.

Operations For Period 0000 Hrs to 0600 Hrs on 20 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SC	P	TI	0000	0300	3.00	1407.0m	Continued to RIH from 693 m to 1035 m, picking up drill pipe from catwalk.
SC	P	CHC	0300	0430	1.50	1407.0m	Held prejob safety meeting and pumped 233 m3 (1468 bbls) of 1.05 sg (8.7 ppg) PHG. Displaced surface lines with 1.6 m3 (10 bbls) sea water.
SC	P	TO	0430	0600	1.50	1407.0m	POOH from 1035 m to 633 m, no overpull.

WBM Data

Mud Type:	SW / PHG Sweeps	API FL:		KCl:		Solids:	3	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:		Hard/Ca:	20	H2O:	97%	PV:	0.023Pa/s
Time:	20:00	HTHP-FL:		MBT:		Oil:		YP:	0.321MPa
Weight:	1.05sg	HTHP-Cake:		PM:		Sand:		Gels 10s:	0.278
Temp:	70.0C°			PF:	0.2	pH:	9.5	Gels 10m:	0.283
						PHPA:		Fann 003:	67
								Fann 006:	68
								Fann 100:	73
								Fann 200:	80
								Fann 300:	90
								Fann 600:	113

Comment
Continued to prepare 23-25 ppb PHG and 3 ppb guar gum sweeps due to successful hydration / yield of both. Pumped guar gum sweeps mid stand and gel sweeps on connections due to limited supply of drill water. At TD, pumped 195 bbl 10 ppg PHG sweep, (ex Kill mud) and displaced out with sea water. 1181 bbl PHG pumped in first stage of displacement, followed by a 60 bbl 4.5% by weight KCL pill spotted on bottom with PHG. Rebuilt all surface volumes with 25 ppb Gel for preparation of 2nd stage displacement job.

Bit # 2				Wear	I	O1	D	L	B	G	O2	R
Size:	660mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	SMITH	WOB(avg)	5.44mt	No.	Size	Progress		322.0m	Cum. Progress		762.0m	
Type:	Rock	RPM(avg)	150	4	24/32nd"	On Bottom Hrs		11.70h	Cum. On Btm Hrs		23.20h	
Serial No.:	MZ6452	F.Rate	4243lpm			IADC Drill Hrs		13.50h	Cum IADC Drill Hrs		28.50h	
Bit Model	XR+	SPP	18244kPa			Total Revs			Cum Total Revs		0	
Depth In	645.0m	TFA	1.767			ROP(avg)		27.52 m/hr	ROP(avg)		32.84 m/hr	
Depth Out	1407.0m											

BHA # 2					
Weight(Wet)	29.26mt	Length	260.0m	Torque(max)	D.C. (1) Ann Velocity 13.78mpm
Wt Below Jar(Wet)		String	115.67mt	Torque(Off.Btm)	D.C. (2) Ann Velocity 14.3mpm
		Pick-Up	117.93mt	Torque(On.Btm)	H.W.D.P. Ann Velocity 12.86mpm
		Slack-Off	113.40mt		D.P. Ann Velocity 12.86mpm

BHA Run Description						Slick BHA with NMDC for EMS at section TD					
Equipment		Length	OD	ID	Serial #	Comment					
Bit		0.66m	660mm		MZ6452	OD on pipe varies from 6.1" - 6.825"					
Bit Sub		0.91m	235mm	76mm	GUD1211-4						
Anderdrift		3.12m	238mm	76mm	ADB916						
Drill Collar		28.53m	241mm	76mm							
X/O		1.08m	245mm	76mm	GUD1220-2						
NMDC		9.45m	210mm	83mm	5553						
Drill Collar		75.47m	203mm	73mm	DO-1080						
X/O		1.09m	207mm	76mm	GUD12204						
HWDP		139.62m	165mm	76mm							

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
1236.00	0.0		1235.98	3.45	3.57	3.45	0.00	Anderdrift Inclination Only
1247.00	1.0		1246.98	3.54	9.09	3.54	0.00	Anderdrift Inclination Only
1264.00	0.0		1263.98	3.69	5.88	3.69	0.00	Anderdrift Inclination Only
1326.00	0.0		1325.98	3.69	0.00	3.69	0.00	Anderdrift Inclination Only
1351.00	0.0		1350.98	3.69	0.00	3.69	0.00	Anderdrift Inclination Only
1407.00	0.5		1406.98	3.94	0.89	3.94	0.00	Anderdrift Inclination Only

Bulk Stocks						Personnel On Board					
Name	Unit	In	Used	Adjust	Balance	Company				Pax	
Barite	MT	0	0	-7	65.0	Santos				5	
Gel	MT	0	15	-65	43.0	DOGC				55	
Cement	MT	0	0	-45	69.0	Offshore Marine Services				4	
HTB cement	MT	0	0	-101	104.0	ESS				8	
Fuel	M3	0	17	0	345.0	BHI				2	
Potable Water	M3	14	27	0	278.0	Rheochem				2	
Drill Water	M3	0	235	0	384.0	Dowell				2	
Helifuel	Litres	0	0	0	0.0	TMT				6	
KCl Brine	M3	0	0	0	0.0	Fight Safety				1	
Mud	M3	0	0	0	0.0	Dril-Quip				2	
						Premium Casing Services				2	
						Schlumberger Drilling & Measurements				2	
						Total				91	

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill	33	19 May 2008	0 Days	Held shallow gas abandonment drill. All personnel mustered in galley and performed a helicopter evacuation drill.
JHA		19 May 2008	0 Days	Drill crew - 7 Deck crew - 17 Welders - 3 Mechanics - 5 Sub Sea - 1
Lost Time Incident	4	17 Nov 2006	549 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting		19 May 2008	0 Days	Discussed mixing bulk chemicals, picking up pipe from deck, good communications between the drill crew and deck crew, correct PPE and correct personnel positions when moving loads with crane.
PTW Issued	17	19 May 2008	0 Days	7 by cold work permits 10 by hot work permits
Safety Meeting	3	18 May 2008	1 Day	Reviewed stop cards for the week and awarded Santos best stop card to Nicholas King. Reviewed safety alerts and discussed shallow gas and the abandonment drill held earlier. Diamond showed safety statistics of all diamond operations worldwide.
Santos Induction	1	19 May 2008	0 Days	Held a Santos induction for the new personnel to site post Diamond induction.
Stop Observations	54	19 May 2008	0 Days	27 - Safe 27 - Corrective actions

Shakers, Volumes and Losses Data				Engineer :			
Available	317.1m³	Losses	328.8m³	Equip.	Descr.	Mesh Size	Hours
Active	139.0m³	Downhole	0.0m³				
Mixing		Surf+ Equip					
Hole		Dumped					
Slug		De-Sander					
Reserve	178.1m³	De-Silter	328.8m³				
Kill		Centrifuge					
		Returns to sea bed					

Marine										
Weather check on 19 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	37km/h	270.0deg	1016.00bar	14.0C°	2.0m	270.0deg	3sec	1	1396.9	118.84
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	110.22
1.0deg	0.8deg	0.80m	6.0m	248.0deg	9sec	Mainly cloudy		3	1431.0	171.00
Rig Dir.	Ris. Tension	VDL		Comments				4	1417.9	191.87
45.0deg		943.93mt						5	1428.0	180.98
								6	1434.1	182.80
								7	1421.0	190.96
								8	1399.9	187.79

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	08:30 hrs 17/05/2008		On standby, waiting on weather to unload casing and bulk.	Item	Unit	Quantity
				Fuel	m3	498
				Potable Water	m3	45
				Drill Water	m3	0
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	0
				KCl Brine	m3	0
Mud	m3	0				
Pacific Wrangler	12:35 hrs 18/05/2008		On standby, waiting on weather to unload drill water, containers and steel plate for decking.	Item	Unit	Quantity
				Fuel	m3	500
				Potable Water	m3	196
				Drill Water	m3	346
				Cement	mt	42
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	80
				KCl Brine	m3	206
Mud	m3	0				
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	117
				Potable Water	m3	27
Helicopter Movement						
Flight #	Time	Destination	Comment			Pax
BWJ	11:28	Jarver 1				6
BWJ	11:41	Wynyard				6

From : Peter Devine / Rohan Richardson OIM : Dennis Gore						
Well Data						
Country	Australia	Measured Depth	1407.0m	Current Hole Size	660mm	
Field	Jarver	TVD	1407.0m	Casing OD	762mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	643.0m	
Rig	Ocean Patriot	Days from spud	4.77	Shoe TVD	643.0m	
Water Depth (LAT)	576.2m	Days on well	7.33	F.I.T. / L.O.T.	/	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Wait on weather window to offload casing tong power pack from Pacific Wrangler.			
RT-ML	597.7m	Planned Op	Offload casing running equipment from Pacific Wrangler and run 508 mm (20") casing. Make up 476 mm (18 3/4") running tool to high pressure wellhead housing and subsea cement plug basket. RIH on drill pipe to 1400m and cement casing. Release running tool and POOH.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

RIH from conductor shoe to 1035 m picking up drill pipe from catwalk. Completed second stage well displacement to PHG and POOH to conductor shoe. Picked up drill pipe from catwalk and racked back 15 stands in derrick. POOH and racked back 660 mm (26") BHA. Made up 508 mm (20") handling gear and prepared to run casing. Unable to offload casing tong power pack due to weather. Rigged down 508 mm (20") handling gear and made up cement head and laid out. Made up EDPHOT on stand of drill pipe and racked back in derrick. Continued to pick up drill pipe from catwalk and racked back in derrick.

Operations For Period 0000 Hrs to 2400 Hrs on 20 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SC	P	TI	0000	0300	3.00	1407.0m	Continued to RIH from 693 m to 1035 m, picking up drill pipe from catwalk.
SC	P	CHC	0300	0430	1.50	1407.0m	Held pre job meeting and pumped 233 m3 (1468 bbls) of 1.05 sg (8.7 ppg) PHG. Displaced surface lines with 1.6 m3 (10 bbls) sea water.
SC	P	TO	0430	0600	1.50	1407.0m	POOH from 1035 m to 633 m, no overpull.
SC	P	PUP	0600	0930	3.50	1407.0m	Picked up 45 joints of 127 mm (5") drill pipe from catwalk and racked back 15 stands in derrick.
SC	P	RS	0930	1000	0.50	1407.0m	Serviced rig and DSC. Note: One cylinder unable to retract, troubleshoot problem, plan to repair on rig move.
SC	P	TO	1000	1100	1.00	1407.0m	POOH from 633 m to top of 660 mm (26") BHA.
SC	P	HBHA	1100	1400	3.00	1407.0m	POOH BHA and racked back. Retrieved EMS tool and laid out 660 mm (26") bit.
SC	P	RRC	1400	1600	2.00	1407.0m	Held pre job meeting and made up 508 mm (20") handling gear. Simultaneous Operations: Commenced unloading 508 mm (20") casing off Far Grip support vessel.
SC	U (WOW)	WOW	1600	1730	1.50	1407.0m	Continued to unload 508 mm (20") casing off Far Grip support vessel. Unable to offload casing tong power pack from Pacific Wrangler due to weather.
SC	U (WOW)	WOW	1730	1900	1.50	1407.0m	Held pre job meeting and rigged down 508 mm (20") handling gear
SC	P	RRC	1900	2030	1.50	1407.0m	Held pre job meeting and picked up cement head and made up cementing stand, laid out same.
SC	P	HT	2030	2130	1.00	1407.0m	Held pre job meeting and picked up EDPHOT and racked back in derrick on a stand of drill pipe.
SC	P	HT	2130	2200	0.50	1407.0m	Moved 476 mm (18 3/4") running tool stand from forward finger board to aft finger board and secured same.
SC	P	PUP	2200	2400	2.00	1407.0m	Held pre job meeting and picked up 127 mm (5") drill pipe from catwalk and RIH to 288 m.

Operations For Period 0000 Hrs to 0600 Hrs on 21 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SC	P	PUP	0000	0030	0.50	1407.0m	Continued to pick up 127 mm (5") drill pipe from catwalk and RIH
SC	P	PUP	0030	0100	0.50	1407.0m	POOH 12 stands of drill pipe and racked back in derick
SC	P	PUP	0100	0300	2.00	1407.0m	Picked up 127 mm (5") drill pipe from catwalk and RIH
SC	P	PUP	0300	0330	0.50	1407.0m	POOH 10 stands of drill pipe and racked back in derrick. Total pipe in derrick - 104 stands, 2997 m.
SC	U	WOW	0330	0430	1.00	1407.0m	Rigged up to run 508 mm (20") casing.
SC	U (WOW)	WOW	0430	0600	1.50	1407.0m	Waited on weather to offload casing running equipment from Pacific Wrangler.

WBM Data									
Mud Type:	SW / PHG Sweeps	API FL:	KCl:	Solids:	3	Viscosity:	0sec/L		
Sample-From:	Pits	Filter-Cake:	Hard/Ca:	H2O:	97%	PV:	0.015Pa/s		
Time:	20:30	HTHP-FL:	MBT:	Oil:		YP:	0.369MPa		
Weight:	1.05sg	HTHP-Cake:	PM:	Sand:		Gels 10s:	0.259		
Temp:	70.0C°		PF:	pH:	10	Gels 10m:	0.263		
				PHPA:		Fann 003:	66		
						Fann 006:	73		
						Fann 100:	84		
						Fann 200:	88		
						Fann 300:	92		
						Fann 600:	107		
Comment		Continued to build 25 ppb Gel for stage 2 displacement. Commenced stage 2 displacement and pumped 1468 bbl followed by 10 bbl seawater. Total well displacement volume = 2709 bbl.							

Bit # 2				Wear	I	O1	D	L	B	G	O2	R
					1	1	WT	A	0	I	NO	TD
Size:	660mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	SMITH	WOB(avg)		No. Size		Progress		0.0m	Cum. Progress		762.0m	
Type:	Rock	RPM(avg)		4	24/32nd"	On Bottom Hrs		0.00h	Cum. On Btm Hrs		23.20h	
Serial No.:	MZ6452	F.Rate				IADC Drill Hrs		0.00h	Cum IADC Drill Hrs		28.50h	
Bit Model	XR+	SPP				Total Revs			Cum Total Revs		0	
Depth In	645.0m	TFA	1.767			ROP(avg)		N/A	ROP(avg)		32.84 m/hr	
Depth Out	1407.0m											

BHA # 2											
Weight(Wet)	29.26mt	Length	260.0m	Torque(max)		D.C. (1) Ann Velocity	0mpm				
Wt Below Jar(Wet)		String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0mpm				
		Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0mpm				
		Slack-Off				D.P. Ann Velocity	0mpm				

BHA Run Description Slick BHA with NMDC for EMS at section TD											
Equipment			Length	OD	ID	Serial #	Comment				
Bit			0.66m	660mm		MZ6452					
Bit Sub			0.91m	235mm	76mm	GUD1211-4					
Anderdrift			3.12m	238mm	76mm	ADB916					
Drill Collar			28.53m	241mm	76mm						
X/O			1.08m	245mm	76mm	GUD1220-2					
NMDC			9.45m	210mm	83mm	5553					
Drill Collar			75.47m	203mm	73mm	DO-1080					
X/O			1.09m	207mm	76mm	GUD12204					
HWDP			139.62m	165mm	76mm		OD on pipe varies from 6.1" - 6.825"				

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
1144.00	0.7	139.0	518.97	0.66	1.23	0.66	2.77	EMS
1201.00	0.5	160.0	575.97	0.20	0.54	0.20	3.07	EMS
1259.00	0.3	168.0	633.97	-0.16	0.29	-0.16	3.17	EMS
1317.00	0.2	108.0	691.97	-0.34	0.46	-0.34	3.32	EMS
1375.00	0.4	87.0	749.97	-0.36	0.36	-0.36	3.63	EMS
1407.00	0.0	0.0	781.97	-0.36	1.28	-0.36	3.75	EMS

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	65.0	Santos	7
Gel	MT	0	16	0	27.0	DOGC	54
Cement	MT	0	0	0	69.0	Offshore Marine Services	4
HTB cement	MT	0	0	0	104.0	ESS	8
Fuel	M3	0	20.5	0	324.5	BHI	2
Potable Water	M3	32	27	0	283.0	Rheochem	2
Drill Water	M3	0	162	0	222.0	Dowell	2
Helifuel	Litres	0	0	0	0.0	TMT	6
KCl Brine	M3	0	0	0	0.0	Dril-Quip	2
Mud	M3	0	0	0	0.0	Premium Casing Services	4
						Schlumberger Drilling & Measurements	2
						Other	2
						Total	95

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		19 May 2008	1 Day	Held shallow gas abandonment drill. All personnel mustered in galley and performed a helicopter evacuation drill.
JHA	38	20 May 2008	0 Days	Drill crew - 4 Deck crew - 27 Welders - 7
Lost Time Incident		17 Nov 2006	550 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting	4	20 May 2008	0 Days	Discussed operations, handling xovers and subs, good communication between deck crews and drill crew, look up when exiting quarters, correct lifting techniques and maintain good housekeeping.
PTW Issued	14	20 May 2008	0 Days	5 by cold work permits 09 by hot work permits
Safety Meeting	3	18 May 2008	2 Days	Reviewed stop cards for the week and awarded Santos best stop card to Nicholas King. Reviewed safety alerts and discussed shallow gas and the abandonment drill held earlier. Diamond showed safety statistics of all diamond operations worldwide.
Santos Induction	1	20 May 2008	0 Days	Held a Santos induction for the new personnel to site post Diamond induction.
Stop Observations	40	20 May 2008	0 Days	23 - Safe 17 - Corrective actions

Shakers, Volumes and Losses Data				Engineer :			
Available	87.6m³	Losses	152.5m³	Equip.	Descr.	Mesh Size	Hours
Active	11.4m³	Downhole					
Mixing		Surf+ Equip	0.0m³				
Hole		Dumped					
Slug		De-Sander					
Reserve	76.2m³	De-Silter					
Kill		Centrifuge					
		Returns to sea bed	152.5m³				

Marine										
Weather check on 20 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	33km/h	225.0deg	1022.00bar	12.0C°	2.0m	225.0deg	3sec	1	1396.9	117.03
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	127.01
1.0deg	0.6deg	1.00m	6.0m	248.0deg	9sec	Partly cloudy		3	1431.0	185.07
Rig Dir.	Ris. Tension	VDL		Comments				4	1417.9	190.06
45.0deg		978.40mt			5			1428.0	175.09	
								6	1434.1	187.79
								7	1421.0	169.19
								8	1399.9	171.00

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		17:20 20/05/2008	On sail to Burnie, ETA in Burnie - 07:30 hrs 21/05/2008.	Item	Unit	Quantity
				Fuel	m3	485
				Potable Water	m3	35
				Drill Water	m3	0
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	0
				KCl Brine	m3	0
				Mud	m3	0
Pacific Wrangler	12:35 hrs 18/05/2008		On standby, waiting on weather to unload drill water, containers and steel plate for decking.	Item	Unit	Quantity
				Fuel	m3	489
				Potable Water	m3	192
				Drill Water	m3	346
				Cement	mt	42
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	80
				KCl Brine	m3	206
				Mud	m3	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	116
				Potable Water	m3	26

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
BWJ	10:12	Jarver 1		11	
BWJ	10:34	Wynyard		7	

From : Peter Devine / Nathan Peri
OIM : Dennis Gore
Well Data

Country	Australia	Measured Depth	1407.0m	Current Hole Size	660mm	
Field	Jarver	TVD	1407.0m	Casing OD	762mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	643.0m	
Rig	Ocean Patriot	Days from spud	5.77	Shoe TVD	643.0m	
Water Depth (LAT)	576.2m	Days on well	8.33	F.I.T. / L.O.T.	/	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Run a total of 63 Jts of 508 mm (20") to a depth of 768.21 m. Preparing to pick up the XO and 18-3/4" Housing.			
RT-ML	597.7m	Planned Op	MU 18-3/4" Housing to the casing string. MU DSX plugs to the 18-3/4" running tool, install on Housing and run and land the casing on 127 mm (5") drill pipe. Land 508 mm (20") casing and take an overpull of 50 klbs. Mix and pump cement, POH. Prepare to run BOPs and Riser.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Continued picking up 127 mm (5") drill pipe while waiting on the weather to subside and allow the casing equipment to be offloaded.

Total length of drill pipe racked = 2,997 m.

Rigged up 508 mm (20") casing running equipment.

Run Shoe track and functioned tested same. Continued running 508 mm (20") casing from 25 m to 445 m.

Lost 2 x 1hr NPT due to tong failure (Jaw Retainer bolt sheared).

Operations For Period 0000 Hrs to 2400 Hrs on 21 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SC	P	PUP	0000	0030	0.50	1407.0m	Continued to pick up 127 mm (5") drill pipe from catwalk and RIH
SC	P	PUP	0030	0100	0.50	1407.0m	POOH 12 stands of drill pipe and racked back in derrick
SC	P	PUP	0100	0300	2.00	1407.0m	Picked up 127 mm (5") drill pipe from catwalk and RIH
SC	P	PUP	0300	0330	0.50	1407.0m	POOH 10 stands of drill pipe and racked back in derrick. Total pipe in derrick - 104 stands, 2997 m.
SC	U	WOW	0330	0430	1.00	1407.0m	Rigged up to run 508 mm (20") casing.
SC	U (WOW)	WOW	0430	0900	4.50	1407.0m	Waited on weather to offload casing running equipment from Pacific Wrangler.
SC	P	RRC	0900	1030	1.50	1407.0m	Continued to rig up 508 mm (20") casing equipment.
SC	P	SM	1030	1100	0.50	1407.0m	Held JSA for picking up and running casing.
SC	P	CRN	1100	1230	1.50	1407.0m	Make up Float Shoe and Float Collar, attached guide ropes. Function test floats OK. Note: Installed 1 x centraliser on the Float Collar and Float Shoe.
SC	P	CRN	1230	1700	4.50	1407.0m	Continued running 508 mm (20"), 133#, X56, Swift D2 connection casing from 25 m to 209 mMD (15 Jts).
SC	U (VE)	RO	1700	1800	1.00	1407.0m	Repair PCS casing tongs.
SC	P	CRN	1800	2230	4.50	1407.0m	Continued running 508 mm (20"), 133#, X56, Swift D2 connection casing from 209 m to 420 mMD (17 Jts).
SC	U (VE)	RO	2230	2330	1.00	1407.0m	Repair PCS casing tongs.
SC	P	CRN	2330	2400	0.50	1407.0m	Continued running 508 mm (20"), 133#, X56, Swift D2 connection casing from 420 m to 433 mMD (01 Jts).

Operations For Period 0000 Hrs to 0600 Hrs on 22 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SC	P	CRN	0000	0300	3.00	1407.0m	Continued running 508 mm (20"), 133#, X56, Swift D2 connection casing from 433 m to 607 mMD (15 Jts).
SC	P	WH	0300	0330	0.50	1407.0m	Set casing 3 m off from landing on the wellhead, made up a work platform and made up the next casing joint. Concurrently moved the rig 11 m to starboard to center the casing over the hole. Compensated the 508 mm (20") Casing Shoe into the 30" wellhead OK.
SC	P	CRN	0330	0600	2.50	1407.0m	Continued running 508 mm (20"), 133#, X56, Swift D2 connection casing from 607 m to 768.21 mMD (13 Jts).

General Comments		
Comments	Rig Requirements	Lessons Learnt
Unable to offload the Riser due to the Riser joints moving during transit to location. The slings have fallen between the joints and checking the status of the slings during the night was deemed to be a hazardous exercise and was postponed until daylight and better sea conditions. Spare slings are available on the OP which can be used to resling the Riser Jts.		

WBM Data									
Mud Type:	SW / PHG Sweeps	API FL:	KCl:	Solids:	3	Viscosity:	0sec/L		
Sample-From:	Pits	Filter-Cake:	Hard/Ca:	20	H2O:	97%	PV:	0.015Pa/s	
Time:	20:00	HTHP-FL:	MBT:		Oil:		YP:	0.364MPa	
Weight:	1.05sg	HTHP-Cake:	PM:		Sand:		Gels 10s:	0.254	
Temp:	65.0C°		PF:	0.2	pH:		Gels 10m:	0.259	
					PHPA:		Fann 003:	66	
							Fann 006:	68	
							Fann 100:	70	
							Fann 200:	77	
							Fann 300:	91	
							Fann 600:	106	
Comment		Inventory adjustment on 27.6 MT Bentonite FOB Melbourne to Bentonite FOB Melbourne ST. Receive chemicals via Pacific Wrangler as per inventory.							

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	65.0	Santos	5
Gel	MT	0	0	0	27.0	DOGC	54
Cement	MT	0	0	0	69.0	Offshore Marine Services	4
HTB cement	MT	0	0	0	104.0	ESS	8
Fuel	M3	0	7.3	0	317.2	BHI	4
Potable Water	M3	35	31	0	287.0	Rheochem	2
Drill Water	M3	0	6	0	216.0	Dowell	2
Helifuel	Litres	0	0	0	0.0	TMT	6
KCl Brine	M3	0	0	0	0.0	Dril-Quip	2
Mud	M3	0	0	0	0.0	Premium Casing Services	4
						Schlumberger Drilling & Measurements	2
						Other	2
						Total	95

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill	31	19 May 2008	2 Days	Held shallow gas abandonment drill. All personnel mustered in galley and performed a helicopter evacuation drill.
JHA		21 May 2008	0 Days	Drill crew - 13 Deck crew - 13 Welders - 3 Subsea - 2
Lost Time Incident	4	17 Nov 2006	551 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting		21 May 2008	0 Days	Discussed operations, running 20" casing, good communication between deck crews and drill crew, look up when exiting quarters, correct lifting techniques and maintain good housekeeping.
PTW Issued	11	21 May 2008	0 Days	04 by cold work permits 07 by hot work permits
Safety Meeting	3	18 May 2008	3 Days	Reviewed stop cards for the week and awarded Santos best stop card to Nicholas King. Reviewed safety alerts and discussed shallow gas and the abandonment drill held earlier. Diamond showed safety statistics of all diamond operations worldwide.
Santos Induction	1	21 May 2008	0 Days	Held a Santos induction for the new personnel to site post Diamond induction.
Stop Observations	31	21 May 2008	0 Days	14 - Safe 17 - Corrective actions

Shakers, Volumes and Losses Data				Engineer :			
Available	87.6m³	Losses	0.0m³	Equip.	Descr.	Mesh Size	Hours
Active	11.4m³	Downhole	0.0m³				
Mixing		Surf+ Equip					
Hole		Dumped					
Slug		De-Sander					
Reserve	76.2m³	De-Silter					
Kill		Centrifuge					
		Returns to sea bed					

Marine												
Weather check on 21 May 2008 at 23:59								Rig Support				
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)		
22.2km	28km/h	45.0deg	1030.00bar	11.0C°	0.5m	45.0deg	3sec	1	1396.9	117.93		
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Partly cloudy		2	1452.1	125.19		
0.6deg	0.4deg	0.50m	4.0m	202.0deg	9sec			3	1431.0	182.80		
Rig Dir.	Ris. Tension	VDL	Comments					4	1417.9	185.07		
45.0deg		971.14mt						5	1428.0	171.91		
								6	1434.1	185.07		
								7	1421.0	165.11		
								8	1399.9	169.19		

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		17:20 20/05/2008	Portside, Burnie	Item	Unit	Quantity
				Fuel	m3	642
				Potable Water	m3	200
				Drill Water	m3	0
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	0
				KCl Brine	m3	0
				Mud	m3	0
Pacific Wrangler	12:35 hrs 18/05/2008		On standby, waiting on weather to unload Riser and bulks.	Item	Unit	Quantity
				Fuel	m3	477
				Potable Water	m3	188
				Drill Water	m3	346
				Cement	mt	42
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	80
				KCl Brine	m3	206
				Mud	m3	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot. No midnight figures available.	Item	Unit	Quantity
				Fuel	m3	0
				Potable Water	m3	0
Helicopter Movement						
Flight #	Time	Destination	Comment			Pax
BWJ	10:18	Jarver 1				4
BWJ	10:30	Wynyard				4

From : Peter Devine / Nathan Peri
OIM : Dennis Gore
Well Data

Country	Australia	Measured Depth	1407.0m	Current Hole Size	476mm	
Field	Jarver	TVD	1407.0m	Casing OD	508mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1398.0m	
Rig	Ocean Patriot	Days from spud	6.77	Shoe TVD	1398.0m	
Water Depth (LAT)	576.2m	Days on well	9.33	F.I.T. / L.O.T.	/	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Made up Dbl of Riser, currently making Dbl of Riser up to the BOPs (picking Riser off the Far Grip and running first).			
RT-ML	597.7m	Planned Op	Run BOPs & Riser, pressure test C&K Lines every 6 joints. Concurrently mix mud in the pits.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Run 508 mm (20") casing string. Installed 18-3/4" Wellhead Housing and run and landed the casing on bottom. Checked that Housing was landed with 22.2 kdaN (50 klb) overpull.
Mixed and pumped cement and displaced to bump with sea water.
Release R/Tool from Wellhead, POH.
Prepared the rig floor for running BOPs/Riser.
Moved the rig 50ft to starboard (135°).

Operations For Period 0000 Hrs to 2400 Hrs on 22 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
SC	P	CRN	0000	0300	3.00	1407.0m	Continued running 508 mm (20"), 133#, X56, Swift DW2 connection casing from 433 m to 607 mMD (15 Jts).
SC	P	WH	0300	0330	0.50	1407.0m	Set casing 3 m off from landing on the wellhead, made up a work platform and made up the next casing joint. Concurrently moved the rig 11 m to starboard to center the casing over the hole. Compensated the 508 mm (20") Casing Shoe into the 30" wellhead OK.
SC	P	CRN	0330	0700	3.50	1407.0m	Continued running 508 mm (20"), 133#, X56, Swift DW2 connection casing from 607 m to 781 mRT (14 Jts). Pick up and run 508 mm (20") Swift DW2 pin x HD90 pin XO joint to 793 mRT. Change out the 508 mm (20") handling equipment. Rig up 127 mm (5") drill pipe handling equipment.
SC	P	CRN	0700	0930	2.50	1407.0m	Pick up and run 18-3/4" Wellhead Housing, remove the Handling tool. Pick up the 18-3/4" R/Tool, install the Cement Plug basket and DP single below the R/Tool. Latch the R/Tool to the 18-3/4" Wellhead Housing. Run the Housing down to sea level and fill the casing. Once returns were observed at the 2" ball valve, the Housing Assy was pulled back to the moonpool and the 2" ball valve was closed.
SC	P	CRN	0930	1400	4.50	1407.0m	RIH 508 mm (20") casing on 127 mm (5") drill pipe. Tight hole at 1,310 mRT, circulated with sea water at 1616 L/min (427 gpm) , 3 MPa (400psi). Worked pipe through tight area. Continue running casing to bottom with drill pipe. Make up Deepsea Express head to landing string, MU TDS, pull from slips, casing stuck @ 1,390 mRT. Circulated and worked casing free, OK.
SC	P	CRN	1400	1430	0.50	1407.0m	Land 18-3/4" Wellhead Housing, take a 22.6 t (50 klb) overpull. Float Shoe = 1,398 mRT Float Collar = 1,383 mRT 18-3/4" Datum = 593.17 mRT (preliminary, requires Index)
SC	P	CMC	1430	1730	3.00	1407.0m	Held cementing JSA. Rig up cement hose and DSX control lines. Pressure tested surface lines to 20 MPa (3,000 psi). Dropped bottom dart and circulated down to shear bottom plug with 5.2 m³ (33 bbls). Plug sheared @ 34 MPa (5,000psi).continued pumping a further 7.4 m³ (47 bbls) Mixed and pumped 98 m³ (616 bbls) Class 'G' Lead slurry at 1.44 sg (12.0 ppg). Mixed and pumped 50 m³ (310 bbls) Class 'HTB' Tail slurry at 1.9 sg (15.8 ppg). Dropped top dart and circulated down to shear top plug with 5.2m³ (33 bbls). Plug sheared @ 20.6 MPa (3,000psi). Pump a further 1.1 m³ (7 bbls).
SC	P	CMC	1730	1900	1.50	1407.0m	Changed to rig mud pumps to displace with sea water. Displaced @ 2,021 L/min (12 bbl/min), reduced pump rate to 795 L/min (5 bbls/min), circulating pressure prior to bump 5.5 MPa (800 psi). Bumped plug @ 8,380 stks (calc 8470), increased bump pressure from 5.5 MPa (800psi) to 8.2 MPa (1,200psi). Held pressure for 10min. Bled off pressure.
SC	P	CMC	1900	2230	3.50	1407.0m	Remove cement hose and DSX control lines. Rotated the landing string 4.5 turns to the right to release the 18-3/4" R/Tool. Break out DSX and lay out. POOH 18-3/4" R/Tool.
IH	P	RR1	2230	2400	1.50	1407.0m	Prepared the rig floor for Riser running operations. Moved the rig 50ft to starboard (135°). ROV surfaced to install Mega digger. Commenced sweeping the wellhead of

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							gel/barite/cuttings. Bullseye reading: 0.25° Stbd/Fwd (no change). Skate the BOP beneath the drill floor.

Operations For Period 0000 Hrs to 0600 Hrs on 23 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	RR1	0000	0130	1.50	1407.0m	Continued rigging up to run BOPs & Riser.
IH	P	RR1	0130	0530	4.00	1407.0m	Held BOP/Riser Handling safety meeting. Picked up Riser joint from the Far Grip and placed on drill floor. Made joint up to termination Jt. (planned to use all Riser joints off the Far Grip first) Picked up dbl of Riser and made up same.
IH	P	RR1	0530	0600	0.50	1407.0m	Positioned BOP under drill floor hole center. Made up Riser to BOPs.

General Comments

Comments	Rig Requirements	Lessons Learnt
The Far Grip is on location and it has a further 25 x joints of Riser onboard. These joints will be run on the BOP first while we have a good weather window.		

WBM Data

Mud Type:	PHPA	API FL:	KCl:	Solids:	3	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	Hard/Ca:	H2O:	97%	PV:	0.016Pa/s
Time:	19:30	HTHP-FL:	MBT:	Oil:		YP:	0.364MPa
Weight:	1.05sg	HTHP-Cake:	PM:	Sand:		Gels 10s:	0.263
Temp:	63.0C°		PF:	pH:		Gels 10m:	0.273
				PHPA:		Fann 003:	66
						Fann 006:	68
						Fann 100:	73
						Fann 200:	80
						Fann 300:	92
						Fann 600:	108
Comment	Discharged 1759 bbl Gel Fluid from the well while circulating before commencing the cement job. Dumped 249 bbls from the pits once cement job completed - this was to allow for pit cleaning prior to taking brine onboard.						

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	36	0	0	101.0	Santos	6
Gel	MT	0	0	0	27.0	DOGC	53
Cement	MT	0	58	0	11.0	Offshore Marine Services	4
HTB cement	MT	0	55	0	49.0	ESS	8
Fuel	M3	0	11	0	306.2	BHI	4
Potable Water	M3	35	30	0	292.0	Rheochem	2
Drill Water	M3	0	50	0	166.0	Dowell	2
Helifuel	Litres	0	0	0	0.0	TMT	6
KCl Brine	M3	0	0	0	0.0	Dril-Quip	2
Mud	M3	0	0	0	0.0	Premium Casing Services	4
						Schlumberger Drilling & Measurements	2
						Other	1
						ABS	1
						Total	95

Casing

OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	/	1398.00/1398.00	As per cement IDS report.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill	29	19 May 2008	3 Days	Held shallow gas abandonment drill. All personnel mustered in galley and performed a helicopter evacuation drill.
JHA		22 May 2008	0 Days	Drill crew - 8 Deck crew - 14 Welders - 2 Subsea - 5
Lost Time Incident	4	17 Nov 2006	552 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting		22 May 2008	0 Days	Discussed upcoming operations, read daily stop cards. Continue to remind people about safe attitudes make safe work places. Remind drill crew leaving tomorrow to stay focused.
PTW Issued	12	22 May 2008	0 Days	04 by cold work permits 08 by hot work permits
Safety Meeting	3	18 May 2008	4 Days	Reviewed stop cards for the week and awarded Santos best stop card to Nicholas King. Reviewed safety alerts and discussed shallow gas and the abandonment drill held earlier. Diamond showed safety statistics of all diamond operations worldwide.
Santos Induction	1	22 May 2008	0 Days	Held a Santos induction for the new personnel to site post Diamond induction.
Stop Observations	58	22 May 2008	0 Days	37 - Safe 21 - Corrective actions

Shakers, Volumes and Losses Data				Engineer : Kellie Gericho / Carissa Thompson			
Available	48.0m³	Losses	39.6m³	Equip.	Descr.	Mesh Size	Hours
Active	11.4m³	Downhole					
Mixing		Surf+ Equip	0.0m³				
Hole		Dumped	39.6m³				
Slug		De-Sander					
Reserve	36.6m³	De-Silter					
Kill		Centrifuge					
		Returns to sea bed					
Comment				Dumped PHG from pits to allow for pit cleaning prior to taking brine onboard.			

Marine										
Weather check on 22 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	22km/h	45.0deg	1029.00bar	14.0C°	0.2m	45.0deg	3sec	1	1396.9	145.15
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	155.13
0.5deg	0.3deg	0.50m	3.0m	225.0deg	12sec	Overcast		3	1431.0	146.06
Rig Dir.	Ris. Tension	VDL	Comments					4	1417.9	165.11
45.0deg		1021.49mt	Guide Line Tension: 13kips					5	1428.0	186.88
								6	1434.1	179.17
								7	1421.0	201.85
								8	1399.9	191.87

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	20:45 22/05/08		Ocean Patriot. On close standby to offload Riser straight to the drill floor.	Item	Unit	Quantity
				Fuel	m3	631
				Potable Water	m3	192
				Drill Water	m3	610
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	0
				KCl Brine	m3	0
				Mud	m3	0
Pacific Wrangler	12:35 hrs 18/05/2008		On close standby. Offloaded all Riser and currently offloading drill water, barite, cement and brine. Will backload 30" & 20" casing and remaining containers prior to sailing.	Item	Unit	Quantity
				Fuel	m3	465
				Potable Water	m3	184
				Drill Water	m3	346
				Cement	mt	42
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	80
				KCl Brine	m3	206
				Mud	m3	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot.	Item	Unit	Quantity
				Fuel	m3	114.6
				Potable Water	m3	24

Helicopter Movement

Flight #	Time	Destination	Comment	Pax
BWJ	10:22	Jarver 1		13
BWJ	10:38	Wynyard		13

From : Peter Devine / Nathan Peri OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	1407.0m	Current Hole Size	444mm
Field	Jarver	TVD	1407.0m	Casing OD	508mm
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1399.0m
Rig	Ocean Patriot	Days from spud	7.77	Shoe TVD	1399.0m
Water Depth (LAT)	576.2m	Days on well	10.33	F.I.T. / L.O.T.	/
RT-SL(LAT)	21.5m	Current Op @ 0600	Continued running Riser joints from #22 to #31.		
RT-ML	597.7m	Planned Op	Land & latch BOPs, overpull test and then pressure test the casing/connector & Shear Rams. Scope out Slip Jt, run Diverter. Run 18-3/4" Test Tool. Conduct full BOP test. Run and pull Test tool and then set the Bore Protector. MU 13-3/8" Seal Assy and rack back. Work on repairing the aft DSC cylinder.		
Rig Heading	45.0deg			Planned TD	3022.0m

Summary of Period 0000 to 2400 Hrs

Moved rig off location, made up dbl of Riser and latched BOPs. Run BOPs on Riser, running a total of 22 joints of 50ft flotation joints, pressure testing the choke and kill lines every 6 joints to 1.4/34.5 MPa (200/5000psi) for 5/10minutes.
Avg running speed 1.5 Jts/hr.
Set Pod line clamps per connection and attached Guide Line safety slings every second connection.

Operations For Period 0000 Hrs to 2400 Hrs on 23 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	RR1	0000	0130	1.50	1407.0m	Continued rigging up to run BOPs & Riser.
IH	P	RR1	0130	0530	4.00	1407.0m	Held BOP/Riser Handling safety meeting. Picked up Riser joint from the Far Grip and placed on drill floor. Made joint up to termination Jt. (planned to use all Riser joints off the Far Grip first) Picked up double of Riser and made up same.
IH	P	RR1	0530	0930	4.00	1407.0m	Positioned BOP under drill floor hole center. Made up Riser Dbl to BOPs.(Riser Jts #1-2)
IH	P	RR1	0930	1030	1.00	1407.0m	Made up Riser Test Tool. Pressure tested Riser C&K Lines to 1.4/34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	1030	1430	4.00	1407.0m	Continued running Riser joints directly off the Far Grip (Riser Jts #3-8). Avg 1.5 Jts/hr. Installed 1 x POD line clamp on every connection and a Guide Line safety sling every second joint.
IH	P	RR1	1430	1500	0.50	1407.0m	Made up Riser Test Tool. Pressure tested Riser C&K Lines to 1.4/34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	1500	1800	3.00	1407.0m	Continued running Riser joints directly off the Far Grip (Riser Jts #9-14). Installed 1 x POD line clamp on every connection and a Guide Line safety sling every second joint.
IH	P	RR1	1800	1830	0.50	1407.0m	Made up Riser Test Tool. Pressure test Riser C&K Lines to 1.4/34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	1830	2230	4.00	1407.0m	Continued running Riser joints directly off the Far Grip (Riser Jts #15-20). Installed 1 x POD line clamp on every connection and a Guide Line safety sling every second joint.
IH	P	RR1	2230	2300	0.50	1407.0m	Made up Riser Test Tool. Pressure test Riser C&K Lines to 1.4/34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	2300	2400	1.00	1407.0m	Continued running Riser joints directly off the Far Grip (Riser Jts #21). Pick up weight = 277 t (610 klbs).

Operations For Period 0000 Hrs to 0600 Hrs on 24 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	RR1	0000	0030	0.50	1407.0m	Continued running Riser joints directly off the Far Grip (Riser Jt #22)
IH	U (BORC)	RR1	0030	0100	0.50	1407.0m	Riser Jt running tool locking pin dropped down below shoulder of tool. Stripped tool down to remove locking pin. Refitted new pin with a stop ring.
IH	P	RR1	0100	0330	2.50	1407.0m	Completed running all Riser joints off the Far Grip (Riser Jts #23 - 25). Pick up Riser Jt #26 off the deck.
IH	P	RR1	0330	0430	1.00	1407.0m	Made up Riser Test Tool. Pressure test Riser C&K Lines to 1.4/34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	0430	0600	1.50	1407.0m	(IN PROGRESS) Continue running Riser Jts from the deck (Riser Jts #27 - 32). Pick up weight = 290 t (640 klbs).

WBM Data							
Mud Type:	KCL/Glycol	API FL:	KCl:	16%	Solids:	1	Viscosity:
Sample-From:	Pits	Filter-Cake:	Hard/Ca:	240	H2O:	99%	PV:
Time:	14:30	HTHP-FL:	MBT:		Oil:		YP:
Weight:	1.15sg	HTHP-Cake:	PM:		Sand:		Gels 10s: 0.263
Temp:	65.0C°		PF:	0.25	pH:		Gels 10m: 0.273
					PHPA:		Fann 003:
							Fann 006:
							Fann 100:
							Fann 200:
							Fann 300:
							Fann 600:
Comment Received 1350bbls KCL/NaNI/Glycol brine off the Pacific Wrangler into pits 1,2,3b and sand trap. Started mixing mud in pits 4 & 5, completed mixing at report time. Dressed shakers 2,3 & 4 with 84's and #1 with 165. Kept 230bbls PHG for Hi-Vis pill displacement. Properties above are from the brine.							

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	101.0	Santos	6
Gel	MT	0	0	0	27.0	DOGC	53
Cement	MT	41	0	0	52.0	Offshore Marine Services	4
HTB cement	MT	0	0	0	49.0	ESS	8
Fuel	M3	0	7.6	0	298.6	BHI	6
Potable Water	M3	32	25	0	299.0	Rheochem	2
Drill Water	M3	309	83	0	392.0	Dowell	2
Helifuel	Litres	0	0	0	0.0	TMT	6
KCl Brine	M3	0	0	0	0.0	Dril-Quip	2
Mud	M3	0	0	0	0.0	Premium Casing Services	4
						Schlumberger Drilling & Measurements	3
						Other	1
						MI Swaco	1
						Total	98

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	/	1399.00/1399.00	As per cement IDS report.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		19 May 2008	4 Days	Held shallow gas abandonment drill. All personnel mustered in galley and performed a helicopter evacuation drill.
JHA	24	23 May 2008	0 Days	Drill crew - 4 Deck crew - 8 Welders - 6 Painter - 3 Elect - 1 Mech - 2 Subsea - 0
Lost Time Incident		17 Nov 2006	553 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting	4	23 May 2008	0 Days	Discussed upcoming operations, read daily stop cards.
PTW Issued	15	23 May 2008	0 Days	04 by cold work permits 11 by hot work permits
Safety Meeting	3	18 May 2008	5 Days	Reviewed stop cards for the week and awarded Santos best stop card to Nicholas King. Reviewed safety alerts and discussed shallow gas and the abandonment drill held earlier. Diamond showed safety statistics of all diamond operations worldwide.
Santos Induction	1	23 May 2008	0 Days	Held a Santos induction for the new personnel to site post Diamond induction.
Stop Observations	53	23 May 2008	0 Days	29 - Safe 24 - Corrective actions

Shakers, Volumes and Losses Data				Engineer : Kellie Gericho / Carissa Thompson			
Available	341.3m³	Losses	0.0m³	Equip.	Descr.	Mesh Size	Hours
Active	11.4m³	Downhole	0.0m³	Centrifuge 1	Swaco 518		0
Mixing		Surf+ Equip		Centrifuge 2	Swaco 518		0
Hole		Dumped		Shaker 1	Swaco BEM 650	10/165/165	0
Slug		De-Sander		Shaker 2	Swaco BEM 650	10/84/84	0
Reserve	329.9m³	De-Silter		Shaker 3	Swaco BEM 650	10/84/84	0
Kill		Centrifuge		Shaker 4	Swaco BEM 650	10/84/84	0

Marine										
Weather check on 23 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	22km/h	100.0deg	1023.00bar	14.0C°	0.2m	100.0deg	3sec	1	1396.9	151.95
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	156.04
0.4deg	0.3deg	0.40m	2.0m	220.0deg	10sec	Overcast		3	1431.0	150.14
Rig Dir.	Ris. Tension	VDL		Comments				4	1417.9	195.04
45.0deg		1075.02mt	Guide Line Tension: slacked off while rig off location to run BOP's.					5	1428.0	151.05
								6	1434.1	125.19
								7	1421.0	156.94
								8	1399.9	137.89

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	20:45 22/05/08		Ocean Patriot. On close standby to offload Riser straight to the drill floor.	Item	Unit	Quantity
				Fuel	m3	613
				Potable Water	m3	180
				Drill Water	m3	610
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	42
				Gel	mt	0
				KCl Brine	m3	0
				Mud	m3	0
Pacific Wrangler		12:12 hrs 23/05/2008	Offloaded Barite, brine & cement prior to transit to Portland.	Item	Unit	Quantity
				Fuel	m3	446
				Potable Water	m3	66
				Drill Water	m3	151
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	80
				KCl Brine	m3	0
				Mud	m3	0
Pacific Crest	16:00 hrs 13/05/08		Standby Ocean Patriot.	Item	Unit	Quantity
				Fuel	m3	113
				Potable Water	m3	23

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BWJ	10:06	Jarver 1		13
BWJ	10:26	Wynyard		14

From : Peter Devine / Nathan Peri OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	1407.0m	Current Hole Size	444mm
Field	Jarver	TVD	1407.0m	Casing OD	508mm
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1399.0m
Rig	Ocean Patriot	Days from spud	8.77	Shoe TVD	1399.0m
Water Depth (LAT)	576.2m	Days on well	11.33	F.I.T. / L.O.T.	/
RT-SL(LAT)	21.5m	Planned TD	3022.0m		
RT-ML	597.7m	Current Op @ 0600	Completed BOP testing.POOH weight set test tool. Run the bore protector.		
Rig Heading	45.0deg	Planned Op	MU the 340 mm (13-3/8") casing hanger and seal assy, rack back in derrick. Repair aft cylinder on the DSC.		

Summary of Period 0000 to 2400 Hrs

Run BOPs with 36 x 50ft floatation Riser joints.
 PU Slip Jt and landing joint. Land & latch BOPs. Take 22.6 t (50 klbs) overpull.
 Close Shear rams and pressure test against the casing to 14.8 MPa (2,150psi).
 Run BOP test tool, land and commence pressure testing the BOPs.

Operations For Period 0000 Hrs to 2400 Hrs on 24 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	RR1	0000	0030	0.50	1407.0m	Continued running Riser joints directly off the Far Grip (Riser Jt #22)
IH	U (BORC)	RR1	0030	0100	0.50	1407.0m	Riser Jt running tool locking pin dropped down below shoulder of tool. Stripped tool down to remove locking pin. Refitted new pin with a stop ring.
IH	P	RR1	0100	0330	2.50	1407.0m	Completed running all Riser joints off the Far Grip (Riser Jts #23 - 25). Picked up Riser Jt #26 off the deck.
IH	P	RR1	0330	0430	1.00	1407.0m	Made up Riser Test Tool. Pressure test Riser C&K Lines to 1.4/34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	0430	0630	2.00	1407.0m	Continued running Riser Jts from the deck (Riser Jts #27 - 32). Pick up weight = 290 t (640 klbs).
IH	P	RR1	0630	0730	1.00	1407.0m	Made up Riser Test Tool. Pressure test Riser C&K Lines to 1.4 / 34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	0730	0900	1.50	1407.0m	Continued running Riser Jts from the deck (Riser Jts #33 - 36). Attach 1 x guide line clamp on blue and yellow pods every connection. Attached safety cable from Riser to guide line very second connection.
IH	P	RR1	0900	0930	0.50	1407.0m	Made up Riser Test Tool. Pressure tested Riser C&K Lines to 1.4 / 34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	0930	1100	1.50	1407.0m	Picked up Slip Jt and Landing Jt. Attached Pod clamps to the guide lines. Total Riser joints run: 36 x 50ft floatation joints
IH	P	RR1	1100	1200	1.00	1407.0m	Hold JSA. Made up choke, kill and booster lines to the Riser.
IH	P	RR1	1200	1230	0.50	1407.0m	Pressure tested choke and kill lines to 1.4 / 34.5 MPa (200/5000psi) for 5/10minutes.
IH	P	RR1	1230	1300	0.50	1407.0m	Latched SDL Ring to the Slip Jt while moving the rig over the wellhead.
IH	P	RR1	1300	1430	1.50	1407.0m	Land and latched BOPs. Confirmed latch with 22.6 t (50 klb) overpull. Weight prior to landing = 317 t (700 klb). ROV observed bullseye readings before and after landing: Flex Jt: 0°, after 0° LMRP: 0.25° fwd, after 0.25° fwd. BOP: 0.75° fwd, after 0.25° fwd/stbd. PGB: 0.25° fwd/stbd, after 0.25° fwd/stbd.
IH	P	RR1	1430	1530	1.00	1407.0m	Installed Podline sheaves, safety cables and storm loops.
IH	P	RR1	1530	1600	0.50	1407.0m	Lined up and break circulation with Dowell. Closed Shear Rams and conduct casing pressure test to 1.4 / 14.8 MPa (200/2150 psi) with 47 L (7.5bbls) for 5/15 minutes.
IH	P	RR1	1600	1630	0.50	1407.0m	Changed from Blue to Yellow pod and took overpull test and retest Shear Rams to 3.4 MPa(500psi) for 5 minutes.
IH	P	RR1	1630	1830	2.00	1407.0m	Scoped out Slip Jt, lay out Landing Jt. Installed diverter and attached Index lines.
IH	P	RR1	1830	2000	1.50	1407.0m	Rigged down Riser running equipment. Rig up 127 mm (5") running equipment.
IH	P	BOP	2000	2330	3.50	1407.0m	MU Jet Sub on the bottom of 2 x HWDP Stds. Picked up weight set tested tool and RIH. Landed the tool and took measurements. 18-3/4" Wellhead Datum 593.80 mRT.
IH	P	BOP	2330	2400	0.50	1407.0m	Commence BOP testing on the yellow pod. Pressure tested Lower pipe rams 1.7 / 17.2 MPa (250/2500 psi) for 5/10 minutes. Volume used = 2 L (0.3bbls)

Operations For Period 0000 Hrs to 0600 Hrs on 25 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	BOP	0000	0430	4.50	1407.0m	Conitinue pressure testing the BOPs to 1.7 /17.2 MPa (250/2500 psi) for 5/10 minutes

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	BOP	0430	0500	0.50	1407.0m	on the yellow pod.
IH	P	BOP	0500	0600	1.00	1407.0m	Function BOPs on the blue pod. (IN PROGRESS) Pull weight set test tool above BOPs. Install Diverter packer and function valves and pump water through stbd/port side overboard lines. Pull packer and then continue pulling test tool. Tool at surface, lay out tool

WBM Data

Mud Type:	KCL/Glycol	API FL:	14cm³/30m	KCl:	8%	Solids:	1	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:		Hard/Ca:	200	H2O:	99%	PV:	0.014Pa/s
Time:	16:30	HTHP-FL:		MBT:		Oil:		YP:	0.148MPa
Weight:	1.07sg	HTHP-Cake:		PM:	0.3	Sand:		Gels 10s:	0.048
Temp:	19.0C°			PF:	0.12	pH:	9.3	Gels 10m:	0.067
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	12
								Fann 100:	28
								Fann 200:	37
								Fann 300:	45
								Fann 600:	59
Comment		Increased concentration of drispac SL and Flowzan to improve rheological values and fluid loss control before 17.5" displacement. Fluid Loss and 6rpm readings still slightly under spec. Will reaccess properties once circulated and allowed to shear through the bit. Will closely monitor mud properties after circulation and treat accordingly.							

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	47	0	0	148.0
Gel	MT	0	0	0	27.0
Cement	MT	0	0	0	52.0
HTB cement	MT	0	0	0	49.0
Fuel	M3	0	12	0	286.6
Potable Water	M3	35	30	0	304.0
Drill Water	M3	602	104	0	890.0
Helifuel	Litres	0	0	0	0.0
KCl Brine	M3	0	0	0	0.0
Mud	M3	0	0	0	0.0

Personnel On Board

Company	Pax
Santos	6
DOGC	53
Offshore Marine Services	4
ESS	8
BHI	6
Rheochem	2
Dowell	2
TMT	6
Dril-Quip	2
Schlumberger Drilling & Measurements	3
Other	1
MI Swaco	1
Total	94

Casing

OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	/	1399.00/1399.00	As per cement IDS report.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill	30	24 May 2008	0 Days	Held night fire drill. Simulated a fire in the store room. All personnel accounted for at lifeboat stations.
JHA		24 May 2008	0 Days	Drill crew - 12 Deck crew - 14 Welders - 2 Painter - 2 Elect - 0 Mech - 0 Subsea - 0
Lost Time Incident	4	17 Nov 2006	554 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting		24 May 2008	0 Days	Discussed upcoming operations, read daily stop cards.
PTW Issued	13	24 May 2008	0 Days	06 x cold work permits 07 x hot work permits
Safety Meeting	3	18 May 2008	6 Days	Reviewed stop cards for the week and awarded Santos best stop card to Nicholas King. Reviewed safety alerts and discussed shallow gas and the abandonment drill held earlier. Diamond showed safety statistics of all diamond operations worldwide.
Stop Observations	56	24 May 2008	0 Days	26 - Safe 30 - Corrective actions

Shakers, Volumes and Losses Data				Engineer : Kellie Gericho / Carissa Thompson			
Available	341.5m³	Losses	0.0m³	Equip.	Descr.	Mesh Size	Hours
Active	11.4m³	Downhole	0.0m³	Centrifuge 1	MI Swaco		0
Mixing		Surf+ Equip		Centrifuge 1	MI Swaco		0
Hole		Dumped		Centrifuge 2	MI Swaco		0
Slug		De-Sander		Centrifuge 2	MI Swaco		0
Reserve	330.1m³	De-Silter		Shaker 1	MI Swaco	10/165/165	0
Kill		Centrifuge		Shaker 2	MI Swaco	10/84/84	0
				Shaker 2	MI Swaco	10/84/84	0
				Shaker 3	MI Swaco	10/84/84	0
				Shaker 3	MI Swaco	10/84/84	0
				Shaker 4	MI Swaco	10/84/84	0
				Shaker 4	MI Swaco	10/84/84	0

Marine										
Weather check on 24 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	46km/h	40.0deg	1023.00bar	13.0C°	1.0m	40.0deg	3sec	1	1396.9	132.00
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1452.1	156.94
0.4deg	0.3deg	0.40m	2.0m	250.0deg	10sec	Fine.		3	1431.0	151.95
								4	1417.9	179.17
Rig Dir.	Ris. Tension	VDL	Comments					5	1428.0	150.14
45.0deg		1045.08mt	Guide Line Tension: 20 kips. MRT's: 444 kips.					6	1434.1	156.04
								7	1421.0	201.85
								8	1399.9	156.94

Boats		Arrived (date/time)		Departed (date/time)		Status		Bulks		
Far Grip			17:00 hrs 24/05/2008		On transit to Portland. ETA 0730hrs 25th May.	Item		Unit	Quantity	
						Fuel		m3	597	
						Potable Water		m3	170	
						Drill Water		m3	0	
						Cement		mt	0	
						HTB cement		mt	0	
						Barite		mt	0	
						Gel		mt	0	
						KCl Brine		m3	0	
Mud		m3	0							
Pacific Wrangler			12:12 hrs 23/05/2008		On transit to Ocean Patriot. ETA 25th May 1500hrs.	Item		Unit	Quantity	
						Fuel		m3	538	
						Potable Water		m3	211	
						Drill Water		m3	346	
						Cement		mt	64	
						HTB cement		mt	0	
						Barite		mt	84	
						Gel		mt	80	
						KCl Brine		m3	222	
Mud		m3	0							
Pacific Crest	16:00 hrs 13/05/08				Standby Ocean Patriot.	Item		Unit	Quantity	
						Fuel		m3	113	
						Potable Water		m3	22	
Helicopter Movement										
Flight #		Time		Destination		Comment				Pax
N/A						No flights today				
BWJ		10:26		Wynyard						14

From : Peter Devine / Nathan Peri
OIM : Dennis Gore

Well Data

Country	Australia	Measured Depth	1407.0m	Current Hole Size	444mm	
Field	Jarver	TVD	1407.0m	Casing OD	508mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1399.0m	
Rig	Ocean Patriot	Days from spud	9.77	Shoe TVD	1399.0m	
Water Depth (LAT)	576.2m	Days on well	12.33	F.I.T. / L.O.T.	/	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continue repairs on the DSC cylinder piston.			
RT-ML	597.7m	Planned Op	Continue repairs on the DSC. Breakout 241mm (9-1/2") Anderdrift tool. MU 445mm (17-1/2") BHA. RIH tag float collar.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Completed pressure testing the BOPs. Functioned BOPs on the Blue Pod.
 POH weight set test tool. Set Diverter packer and flushed lines overboard on both stbd/port sides.
 Ran and set the 476mm (18-3/4") bore protector.
 MU 340mm (13-3/8") casing hanger assy and rack back.
 Brokeout the DSE cement head.
 Started repairs on the DSC aft cylinder piston.

Operations For Period 0000 Hrs to 2400 Hrs on 25 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	BOP	0000	0430	4.50	1407.0m	Conitined pressure testing the BOPs to 1.7 /17.2 MPa (250/2500 psi) for 5/10 minutes on the yellow pod.
IH	P	BOP	0430	0500	0.50	1407.0m	Function BOPs on the blue pod.
IH	P	BOP	0500	0700	2.00	1407.0m	Pulled weight set test tool above BOPs. Installed Diverter packer, functioned valves and pumped water through stbd/port side overboard lines. Pulled packer and then continued pulling test tool. Tool at surface, layed out tool
IH	P	BOP	0700	1030	3.50	1407.0m	Picked up and ran the 18-3/4" bore protector, landed tool @ 594m. Released from bore protector, POOH.
IH	P	HT	1030	1200	1.50	1407.0m	Made up 340 mm (13-3/8") casing hanger and racked back.
IH	P	HT	1200	1300	1.00	1407.0m	Break out pup and DP single from DSE cement head, layout same.
IH	U	RR	1300	2400	11.00	1407.0m	Held JSA meeting. Commenced repairs to the DSC. Drained oil, removed top and bled down DSC. Rigged up lifting gear to asist DSC to lower, bled down system and isolated, removed DSC chains from adjuster rods and stored in chain lockers. Removed top sheave cluster and supported plate, rigged up lifting gear to support DSC rod. Removed HP airline and head, tapped bolt holes in bottom DSC rod.

Operations For Period 0000 Hrs to 0600 Hrs on 26 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	U	RR	0000	0600	6.00	1407.0m	Held JSA with drill crew. Continued repair work to the DSC. Unbolted piston from the cylinder and lowered down to the rig floor. No immediate problem identified. Cleaned up the existing seals.

WBM Data

Mud Type:	KCL/Glycol	API FL:	14cm³/30m	KCl:	8%	Solids:	1	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:		Hard/Ca:	200	H2O:	99%	PV:	0.014Pa/s
Time:	16:30	HTHP-FL:		MBT:		Oil:		YP:	0.148MPa
Weight:	1.07sg	HTHP-Cake:		PM:	0.3	Sand:		Gels 10s:	0.048
Temp:	23.0C°			PF:	0.12	pH:	9.3	Gels 10m:	0.067
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	12
								Fann 100:	28
								Fann 200:	37
								Fann 300:	45
								Fann 600:	59

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	148.0	Santos	6
Gel	MT	0	0	0	27.0	DOGC	53
Cement	MT	0	0	1	53.0	Offshore Marine Services	4
HTB cement	MT	0	0	1	50.0	ESS	8
Fuel	M3	0	9.7	0	276.9	BHI	6
Potable Water	M3	31	24	0	311.0	Rheochem	2
Drill Water	M3	0	18	0	872.0	Dowell	2
Helifuel	Litres	0	0	0	0.0	TMT	6
KCl Brine	M3	0	0	0	0.0	Dril-Quip	2
Mud	M3	0	0	0	0.0	Schlumberger Drilling & Measurements	3
						Other	1
						MI Swaco	1
						Total	94

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	/	1399.00/1399.00	As per cement IDS report.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		24 May 2008	1 Day	Held night fire drill. Simulated a fire in the store room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	18	25 May 2008	0 Days	Drill crew - 6 Deck crew - 5 Mech - 7
Lost Time Incident		17 Nov 2006	555 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting	4	25 May 2008	0 Days	Discussed upcoming operations, read daily stop cards. Attention to non routine work on the DSC, manrider work, working at heights, adverse weather.
PTW Issued	18	25 May 2008	0 Days	7 x cold work permits 11 x hot work permits
Safety Meeting	3	25 May 2008	0 Days	Reviewed stop cards for the week and awarded Santos best stop card to Mike Honey. Reviewed safety alerts and discussed Back Strains and correct lifting techniques. Presentation given by Schlumberger on the safe use of radioactive sources and what controls are in place when this is used in BHA's. Discussed the fire drill and the abandonment drill held earlier.
Santos Induction	2	25 May 2008	0 Days	Held a Santos induction for the new personnel to the rig post Diamond weekly safety meeting..
Stop Observations	63	25 May 2008	0 Days	38 - Safe 25 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Kellie Gericho / Carissa Thompson			
Available	341.5m³	Losses	0.0m³	Equip.	Descr.	Mesh Size	Hours
Active	11.4m³	Downhole		Centrifuge 1	MI Swaco		0
Mixing		Surf+ Equip	0.0m³	Centrifuge 1	MI Swaco		0
Hole		Dumped		Centrifuge 2	MI Swaco		0
Slug		De-Sander		Centrifuge 2	MI Swaco		0
Reserve	330.1m³	De-Silter		Shaker 1	MI Swaco	10/165/165	0
Kill		Centrifuge		Shaker 1	MI Swaco	10/10/165/165/165/165	0
				Shaker 2	MI Swaco	10/84/84	0
				Shaker 2	MI Swaco	10/10/84/84/84/84	0
				Shaker 3	MI Swaco	10/84/84	0
				Shaker 3	MI Swaco	10/10/84/84/84/84	0
				Shaker 4	MI Swaco	10/84/84	0
				Shaker 4	MI Swaco	10/10/84/84/84/84	0

Marine										
Weather check on 25 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
14.8km	52km/h	20.0deg	1021.00bar	17.0C°	1.5m	20.0deg	4sec	1	1389.9	184.16
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1433.8	190.96
0.4deg	0.3deg	0.40m	2.0m	45.0deg	10sec	Fine.		3	1421.0	176.90
Rig Dir.	Ris. Tension	VDL	Comments					4	1370.1	177.81
45.0deg	218.18mt	1073.20mt	Guide Line Tension: 24 kips.					5	1393.9	127.01
								6	1428.0	127.91
								7	1410.9	200.03
								8	1386.8	157.85

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	08:00 25th May		Portside Burnie	Item	Unit	Quantity
				Fuel	m3	588
				Potable Water	m3	460
				Drill Water	m3	0
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	0
				KCl Brine	m3	0
				Mud	m3	0
Pacific Wrangler	14:40 25th May 2008		On location, running standby.	Item	Unit	Quantity
				Fuel	m3	518
				Potable Water	m3	207
				Drill Water	m3	346
				Cement	mt	64
				HTB cement	mt	0
				Barite	mt	84
				Gel	mt	80
				KCl Brine	m3	222
				Mud	m3	0
Pacific Crest		14:30 hrs 25/05/08	Transit to Hobart. ETA 22:00hrs 26th May.	Item	Unit	Quantity
				Fuel	m3	112.7
				Potable Water	m3	20.8

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
N/A			No flights today	

From : Peter Devine / Nathan Peri OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	1407.0m	Current Hole Size	444mm
Field	Jarver	TVD	1407.0m	Casing OD	508mm
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1399.0m
Rig	Ocean Patriot	Days from spud	10.77	Shoe TVD	1399.0m
Water Depth (LAT)	576.2m	Days on well	13.33	F.I.T. / L.O.T.	/
RT-SL(LAT)	21.5m	Planned TD	3022.0m		
RT-ML	597.7m	Current Op @ 0600	Tagged the cement plug at 1381m RT. Displacing to 1.07 sg (8.9 ppg) mud.		
Rig Heading	45.0deg	Planned Op	Displace the well to 1.07 sg (8.9 ppg) mud. Drill out the shoe track and 3m of new formation. Circulate and condition mud. Conduct LOT. Drill ahead 445 mm (17-1/2") hole to section TD.		

Summary of Period 0000 to 2400 Hrs

Completed repairs to the DSC aft cylinder piston.
Made up 445 mm BHA assy, RIH to 260m RT.

Operations For Period 0000 Hrs to 2400 Hrs on 26 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	U	RR	0000	0600	6.00	1407.0m	Held JSA with drill crew. Continued repair work to the DSC. Unbolted piston from the cylinder and lowered down to the rig floor. No immediate problem identified. Cleaned up the existing seals.
IH	U	RR	0600	1730	11.50	1407.0m	Continued repair work on the DSC. Replaced all the seals on the piston. Reassembled the DSC. Function tested the DSC, good test.
IH	P	HBHA	1730	1830	1.00	1407.0m	Broke out 241 mm (9-1/2") Bit Sub & Anderdrift tool. Lay out same, rack back the 241 mm (9-1/2") drill collars.
IH	P	HBHA	1830	2130	3.00	1407.0m	MU 445 mm (17-1/2") Rotary assembly.
IH	P	HBHA	2130	2200	0.50	1407.0m	Shallow pulse test MWD with 1616 L/min (427 gpm) & 4 MPa (600 psi) from 73m RT.
IH	P	HBHA	2200	2400	2.00	1407.0m	Continued running BHA from 73 m to 260 mRT.

Operations For Period 0000 Hrs to 0600 Hrs on 27 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	HBHA	0000	0030	0.50	1407.0m	Continued running 445 mm (17-1/2") BHA from 260 m to 279m RT. Installed Diverter packer.
IH	P	TI	0030	0200	1.50	1407.0m	RIH 445 mm (17-1/5") BHA on 127 mm (5") drill pipe from 279m to 650m RT.
IH	P	TI	0200	0230	0.50	1407.0m	Installed PS30 Slips.
IH	P	TI	0230	0400	1.50	1407.0m	Continued running 445 mm (17-1/2") BHA on 127 mm (5") drill pipe from 650m to 1373m RT.
IH	P	RW	0400	0430	0.50	1407.0m	Made up TDS, tagged cement plugs at 1381m RT with 4.5 t (10 klbs). Picked up off bottom.
IH	P	CMD	0430	0600	1.50	1407.0m	Circulated and displaced the well to 1.07 sg (8.9 ppg) KCl-Glycol mud. Parameters: 4164 L/min (1100 gpm), 22.1 MPa (3200 psi). Built new mud as the pits were emptied.

General Comments

Comments	Rig Requirements	Lessons Learnt
Completed installation of new whip line on the port crane. Backloaded 3 x spare joints of Riser onto the Wrangler for extra VDL when the 340 mm casing is loaded on.		

WBM Data									
Mud Type:	KCL/Glycol	API FL:	14cm ³ /30m	KCl:	8%	Solids:	1	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	200	H2O:	99%	PV:	0.015Pa/s
Time:	19:00	HTHP-FL:		MBT:		Oil:		YP:	0.139MPa
Weight:	1.07sg	HTHP-Cake:		PM:	0.2	Sand:		Gels 10s:	0.048
Temp:	20.0C°			PF:	0.1	pH:	9.3	Gels 10m:	0.062
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	12
								Fann 100:	28
								Fann 200:	37
								Fann 300:	44
								Fann 600:	59
Comment Check mud balance calibration in Shaker hse and Pit room. Pits 3A/B,4 & 5 will be blended and utilised for intial displacement, whilst reserve KCl-Glycol brine will be transferred for further mixing during/after displacement.									

Bit # 3				Wear	I	O1	D	L	B	G	O2	R
Size:	444mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)		No. Size		Progress			Cum. Progress 0.0m			
Type:	Rock	RPM(avg)		1	14/32nd"	On Bottom Hrs			Cum. On Btm Hrs 0.00h			
Serial No.:	6064598	F.Rate		1	15/32nd"	IADC Drill Hrs			Cum IADC Drill Hrs 0.00h			
Bit Model	MXL-T1V	SPP		2	24/32nd"	Total Revs			Cum Total Revs 0			
Depth In	1407.0m	TFA	1.206			ROP(avg) N/A			ROP(avg) 0.00 m/hr			
Depth Out												
Daily Comment		Bit through the table @ 2100hrs 26th May 2008.										

BHA # 3						
Weight(Wet)	Length	279.1m	Torque(max)		D.C. (1) Ann Velocity	0mpm
Wt Below Jar(Wet)	String		Torque(Off.Btm)		D.C. (2) Ann Velocity	0mpm
	Pick-Up		Torque(On.Btm)		H.W.D.P. Ann Velocity	0mpm
	Slack-Off				D.P. Ann Velocity	0mpm
BHA Run Description		445 mm (17-1/2") Rotary Assy.				
Equipment		Length	OD	ID	Serial #	Comment
Bit		0.44m	444mm	89mm	6064598	2 x 24,1x15, 1x14 Nozzles 7-5/8" x 6-5/8" Conn. Ported Float
Near Bit Stabiliser		1.83m	438mm	76mm	XM743	
Pony Drill Collar		4.03m	210mm	76mm	S80757	
17.25in IB stabiliser		2.01m	438mm	76mm	207A36	Totco ring
Saver Sub		0.38m	210mm	76mm	ASQ8008	
ARC-8		5.53m	207mm	76mm	2724	
Saver Sub		0.37m	210mm	76mm	SB03181	
Telescope HF		7.56m	210mm	73mm	FB46	
Saver Sub		0.47m	210mm	76mm	055060087C	
X/O		0.44m	210mm	76mm	SBD2858	
17.25in IB stabiliser		1.85m	438mm	76mm	207A77	
8in Non-Mag Pony Collar		9.46m	210mm	83mm	SBD5552	
8in DC		75.47m	203mm	73mm		
8in Jar		9.59m	210mm	76mm	489070	
8in DC		18.91m	203mm	73mm		
X/O		1.09m	203mm	73mm	GVD12204	
HWDP		139.62m	127mm	78mm		

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	148.0	Santos	6
Gel	MT	0	0	0	27.0	DOGC	54
Cement	MT	0	0	0	53.0	Offshore Marine Services	4
HTB cement	MT	0	0	0	50.0	ESS	8
Fuel	M3	0	12	0	264.9	BHI	6
Potable Water	M3	40	25	0	326.0	Rheochem	2
Drill Water	M3	0	5	0	867.0	Dowell	2
Helifuel	Litres	0	0	0	0.0	TMT	3
KCl Brine	M3	0	0	0	0.0	Schlumberger Drilling & Measurements	3
Mud	M3	0	0	0	0.0	MI Swaco	1
						Total	89

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	/	1399.00/1399.00	As per cement IDS report.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		24 May 2008	2 Days	Held night fire drill. Simulated a fire in the store room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	40	26 May 2008	0 Days	Drill crew - 10 Deck crew - 16 Mech - 0 Weld - 8 Painter - 6
Lost Time Incident		17 Nov 2006	556 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting	4	26 May 2008	0 Days	Discussed upcoming operations, read daily stop cards. Discuss BHA handling ops.
PTW Issued	15	26 May 2008	0 Days	8 x cold work permits 7 x hot work permits
Safety Meeting	3	25 May 2008	1 Day	Reviewed stop cards for the week and awarded Santos best stop card to Mike Honey. Reviewed safety alerts and discussed Back Strains and correct lifting techniques. Presentation given by Schlumberger on the safe use of radioactive sources and what controls are in place when this is used in BHA's. Discussed the fire drill and the abandonment drill held earlier.
Santos Induction	1	26 May 2008	0 Days	Held a Santos induction for the new personnel to the rig on todays chopper.
Stop Observations	42	26 May 2008	0 Days	29 - Safe 13 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	341.5m³	Losses	0.0m³	Equip.	Descr.	Mesh Size	Hours
Active	11.4m³	Downhole		Centrifuge 1	MI Swaco		0
Mixing		Surf+ Equip	0.0m³	Centrifuge 2	MI Swaco		0
Hole		Dumped		Shaker 1	MI Swaco	10/10/165/165/165/165	0
Slug		De-Sander		Shaker 2	MI Swaco	10/10/84/84/84/84	0
Reserve	330.1m³	De-Silter		Shaker 3	MI Swaco	10/10/84/84/84/84	0
Kill		Centrifuge		Shaker 4	MI Swaco	10/10/84/84/84/84	0
Comment	229 m³ (1442 bbls) Mud in pits 3a/3b, 4 & 5. 104 m³ (655 bbls) of brine in the remaining pits. No room to mix mud.						

Marine										
Weather check on 26 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
22.2km	48km/h	225.0deg	1026.00bar	14.0C°	1.5m	225.0deg	3sec	1	1389.9	182.80
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1433.8	190.96
0.3deg	0.3deg	0.40m	1.5m	225.0deg	10sec	Fine.		3	1421.0	201.85
Rig Dir.	Ris. Tension	VDL	Comments					4	1370.1	230.88
45.0deg	218.18mt	1057.33mt	Guide Line Tension: 24 kips.					5	1393.9	130.18
								6	1428.0	130.18
								7	1410.9	146.96
								8	1386.8	150.14

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	08:00 25th May		Departed Burnie @ 1630hrs, ETA 0700hrs 27th May 08.	Item	Unit	Quantity
				Fuel	m3	582
				Potable Water	m3	444
				Drill Water	m3	830
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	0
				KCl Brine	m3	0
				Mud	m3	0
Pacific Wrangler	14:40 25th May 2008		On location, running standby.	Item	Unit	Quantity
				Fuel	m3	507
				Potable Water	m3	203
				Drill Water	m3	346
				Cement	mt	64
				HTB cement	mt	0
				Barite	mt	84
				Gel	mt	80
				KCl Brine	m3	222
				Mud	m3	0

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
BWJ	11:00	Jarver 1		3	
BWJ	11:12	Wynyard		8	

From : Chris Roots / Nathan Peri OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	1407.0m	Current Hole Size	476mm
Field	Jarver	TVD	1407.0m	Casing OD	508mm
Drill Contractor	DOGC	Progress	6.0m	Shoe MD	1399.0m
Rig	Ocean Patriot	Days from spud	11.77	Shoe TVD	1399.0m
Water Depth (LAT)	576.2m	Days on well	14.33	F.I.T. / L.O.T.	/
RT-SL(LAT)	21.5m	Planned TD	3022.0m		
RT-ML	597.7m	Current Op @ 0600	Drilled the shoe track from 1383m to 1399m RT (16m).		
Rig Heading	45.0deg	Planned Op	Drill out the Shoe track and 3m of new formation. Conduct LOT. Drill ahead 445mm (17-1/2") hole to section TD.		

Summary of Period 0000 to 2400 Hrs

Run 445mm (17-1/2") Rotary assembly BHA to bottom.
 Tagged the cement plug @ 1381m RT.
 Displaced the well to 1.08 sg (9.0ppg) KCl/Glycol mud.
 Drilled ahead from 1381m to 1383m (2m).
 POH and checked the bit condition.

Operations For Period 0000 Hrs to 2400 Hrs on 27 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	HBHA	0000	0030	0.50	1407.0m	Continued running 445 mm (17-1/2") BHA from 260 m to 279m RT. Installed Diverter packer.
IH	P	TI	0030	0200	1.50	1407.0m	RIH 445 mm (17-1/5") BHA on 127 mm (5") drill pipe from 279m to 650m RT.
IH	P	TI	0200	0230	0.50	1407.0m	Installed PS30 Slips.
IH	P	TI	0230	0400	1.50	1407.0m	Continued running 445 mm (17-1/2") BHA on 127 mm (5") drill pipe from 650m to 1373m RT.
IH	P	RW	0400	0430	0.50	1407.0m	Made up TDS, tagged cement plugs at 1381m RT with 4.5 t (10 klbs). Picked up off bottom.
IH	P	CMD	0430	0730	3.00	1407.0m	Circulated and displaced the well to 1.07 sg (8.9 ppg) KCl-Glycol mud. Parameters: 4164 L/min (1100 gpm), 22.1 MPa (3200 psi). Built new mud as the pits were emptied.
IH	P	DFS	0730	0800	0.50	1407.0m	Drilled out cement plugs from 1381m to 1382 mRT (1m). Parameters: WOB 7/14 t (15/30 klbs), 3407 L/min (900 gpm), 15 MPa (2200psi), TQ 4/7 kNm (3/6 kft.lb), RPM 80-110.
IH	P	CMD	0800	0830	0.50	1407.0m	Shutdown pumps due to shaker screens blinding. Placed scalper screens on the bottom of the shakers.
IH	P	DFS	0830	2000	11.50	1407.0m	Continued to attempt to drill out plugs and shark bite from 1382 to 1383m RT (1m). Varied parameters to attempt to increase ROP. Shark bite and rubber debri coming back over the shakers.
IH	U	CMD	2000	2030	0.50	1407.0m	Pumped 4 m³ (25 bbl) 1.3 sg (11ppg) Slug. Prepared the rig floor for TOH
IH	U	TO	2030	2200	1.50	1407.0m	Pulled out of the hole from 1382m to 279m RT.
IH	U	HBHA	2200	2400	2.00	1407.0m	Pulled BHA to surface from 279m RT. Broke off 445 mm (17-1/2") Bit. The bit was balled up with float debri preventing the cones from rotating which caused severe damage to the bit.

Operations For Period 0000 Hrs to 0600 Hrs on 28 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	U	HBHA	0000	0130	1.50	1407.0m	Broke out 445mm (17-1/2") Bit. Made up new Bit. TIH 445mm (17-1/2") Rotary BHA.
IH	U	TI	0130	0400	2.50	1407.0m	Continued TIH 445mm (17-1/2") BHA on 127mm (5") drill pipe.
IH	P	DFS	0400	0600	2.00	1407.0m	Tagged bottom, patterned in new bit. Continued to drill out the shoe track from 1383m to 1399 mRT (16m). Parameters: WOB 3/5 t (5/10 klbs), 3407 L/min (900 gpm), 15 MPa (2100psi), TQ 4/7 kNm (3/6 kft.lb), RPM 90.

WBM Data									
Mud Type:	KCL/Glycol	API FL:	10cm³/30m	KCl:	8%	Solids:	1	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	320	H2O:	99%	PV:	0.014Pa/s
Time:	20:00	HTHP-FL:		MBT:		Oil:		YP:	0.144MPa
Weight:	1.08sg	HTHP-Cake:		PM:	0.3	Sand:	0	Gels 10s:	0.057
Temp:	24.0C°			PF:	0.2	pH:	9.2	Gels 10m:	0.067
						PHPA:	Oppb	Fann 003:	11
								Fann 006:	13
								Fann 100:	28
								Fann 200:	38
								Fann 300:	44
								Fann 600:	58
Comment Built vol of 1300bbls in pits 1,4,5 for displacement & reserve vol for drilling ahead. After tagging top of cement mud was treated w/0.25ppb SBicarb & citric acid. In pit 1 - 1.5ppb PHPA was added, which will be bled into the active while drilling to increase PHPA conc & replenish any depletion. Flowzan was added directly to increase 6rpm reading. Received 549bbls brine (charged off today) & mud chems from PW.									

Bit # 3				Wear	I	O1	D	L	B	G	O2	R
					8	8	BU	A	0	I	CD	PR
Size:	444mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)	6.80mt	No. Size		Progress		6.0m	Cum. Progress		6.0m	
Type:	Rock	RPM(avg)	90	1	15/32nd"	On Bottom Hrs		9.00h	Cum. On Btm Hrs		9.00h	
Serial No.:	6064598	F.Rate	3407lpm	1	14/32nd"	IADC Drill Hrs		9.00h	Cum IADC Drill Hrs		9.00h	
Bit Model	MXL-T1V	SPP	15168kPa	2	24/32nd"	Total Revs			Cum Total Revs		0	
Depth In	1407.0m	TFA	1.206			ROP(avg)		0.67 m/hr	ROP(avg)		0.67 m/hr	
Depth Out	1407.0m											
Daily Comment		The bit was balled up with float debri preventing the cones from rotating and causing severe damage to the bit. Bit drilled from 1381m to 1385m (4m).										
Bitwear Comment		The bit was balled up with float debri preventing the cones from rotating and causing severe damage to the bit.										

BHA # 3							
Weight(Wet)	34.02mt	Length	279.1m	Torque(max)	13600.0Nm	D.C. (1) Ann Velocity	27.75mpm
Wt Below Jar(Wet)	18.14mt	String	122.47mt	Torque(Off.Btm)	0.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	122.47mt	Torque(On.Btm)	4080.0Nm	H.W.D.P. Ann Velocity	23.91mpm
		Slack-Off	127.01mt			D.P. Ann Velocity	23.91mpm
BHA Run Description		445 mm (17-1/2") Rotary Assy.					
BHA Run Comment		The bit became balled up with float debri which prevented the cones from rotating which caused bit damage (core damage). POH and replaced the bit only.					

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.44m	444mm	89mm	6064598	2 x 24,1x15, 1x14 Nozzles 7-5/8" x 6-5/8" Conn. Ported Float
Near Bit Stabiliser	1.83m	438mm	76mm	XM743	
Pony Drill Collar	4.03m	210mm	76mm	S80757	
17.25in IB stabiliser	2.01m	438mm	76mm	207A36	Totco ring
Saver Sub	0.38m	210mm	76mm	ASQ8008	
ARC-8	5.53m	207mm	76mm	2724	
Saver Sub	0.37m	210mm	76mm	SB03181	
Telescope HF	7.56m	210mm	73mm	FB46	
Saver Sub	0.47m	210mm	76mm	055060087C	
X/O	0.44m	210mm	76mm	SBD2858	
17.25in IB stabiliser	1.85m	438mm	76mm	207A77	
8in Non-Mag Pony Collar	9.46m	210mm	83mm	SBD5552	
8in DC	75.47m	203mm	73mm		
8in Jar	9.59m	210mm	76mm	489070	
8in DC	18.91m	203mm	73mm		
X/O	1.09m	203mm	73mm	GVD12204	
HWDP	139.62m	127mm	78mm		

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	148.0	Santos	7
Gel	MT	0	0	0	27.0	DOGC	51
Cement	MT	0	0	0	53.0	ESS	8
HTB cement	MT	0	0	0	50.0	BHI	6
Fuel	M3	0	11	0	253.9	Rheochem	2
Potable Water	M3	34	31	0	329.0	Dowell	2
Drill Water	M3	0	149	0	718.0	TMT	3
Helifuel	Litres	0	0	0	0.0	Schlumberger Drilling & Measurements	3
KCl Brine	M3	0	0	0	0.0	MI Swaco	1
Mud	M3	0	0	0	0.0	Knowledge Systems	1
						Premium Casing Services	2
						Total	86

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	/	1399.00/1399.00	As per cement IDS report.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		24 May 2008	3 Days	Held night fire drill. Simulated a fire in the store room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	24	27 May 2008	0 Days	Drill crew - 10 Deck crew - 7 Mech - 1 Weld - 5 Elect - 1
Lost Time Incident		17 Nov 2006	557 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting	4	27 May 2008	0 Days	Discussed upcoming operations, read daily stop cards.
PTW Issued	13	27 May 2008	0 Days	4 x cold work permits 9 x hot work permits
Safety Meeting	3	25 May 2008	2 Days	Reviewed stop cards for the week and awarded Santos best stop card to Mike Honey. Reviewed safety alerts and discussed Back Strains and correct lifting techniques. Presentation given by Schlumberger on the safe use of radioactive sources and what controls are in place when this is used in BHA's. Discussed the fire drill and the abandonment drill held earlier.
Santos Induction	1	27 May 2008	0 Days	Held a Santos induction for the new personnel to the rig on todays chopper.
Stop Observations	36	27 May 2008	0 Days	21 - Safe 14 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	522.0m³	Losses	4.4m³	Equip.	Descr.	Mesh Size	Hours
Active	57.1m³	Downhole	4.4m³	Centrifuge 1	MI Swaco		0
Mixing		Surf+ Equip		Centrifuge 2	MI Swaco		0
Hole	261.9m³	Dumped		Shaker 1	MI Swaco	10/10/165/165/165/165	0
Slug				Shaker 2	MI Swaco	10/10/84/84/84/84	0
		De-Sander		Shaker 3	MI Swaco	10/10/84/84/84/84	0
Reserve	203.0m³	De-Silter		Shaker 4	MI Swaco	10/10/84/84/84/84	0
Kill		Centrifuge					
Comment	Pumped 25bbl 11ppg slug prior to pulling out.						

Marine										
Weather check on 27 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	56km/h	180.0deg	1020.00bar	14.0C°	0.5m	180.0deg	3sec	1	1383.8	175.99
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1522.5	162.84
0.5deg	0.4deg	0.50m	1.5m	205.0deg	10sec	Overcast		3	1417.9	174.18
								4	1362.8	161.93
Rig Dir.	Ris. Tension	VDL		Comments				5	1403.9	131.09
45.0deg	218.18mt	1117.20mt	Guide Line Tension: 24 kips.					6	1438.0	133.81
								7	1471.9	130.18
								8	1447.8	140.16

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	08:00 25th May		Departed Burnie @ 1630hrs, ETA 0700hrs 27th May 08.	Item	Unit	Quantity
				Fuel	m3	582
				Potable Water	m3	444
				Drill Water	m3	830
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	0
				KCl Brine	m3	0
				Mud	m3	0
Pacific Wrangler	14:40 25th May 2008		On location, running standby.	Item	Unit	Quantity
				Fuel	m3	507
				Potable Water	m3	203
				Drill Water	m3	346
				Cement	mt	64
				HTB cement	mt	0
				Barite	mt	84
				Gel	mt	80
				KCl Brine	m3	222
				Mud	m3	0

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BWJ	10:08	Jarver 1	Returned to the rig due to a door light coming on mid flight. Rechecked doors OK.	7
BWJ	10:21	Wynyard		10
BWJ	10:27	Jarver 1		0
BWJ	10:35	Wynyard		0

From : Chris Roots / Nathan Peri OIM : Dennis Gore						
Well Data						
Country	Australia	Measured Depth	1720.0m	Current Hole Size	445mm	
Field	Jarver	TVD	1720.0m	Casing OD	508mm	
Drill Contractor	DOGC	Progress	313.0m	Shoe MD	1399.0m	
Rig	Ocean Patriot	Days from spud	12.77	Shoe TVD	1399.0m	
Water Depth (LAT)	576.2m	Days on well	15.33	F.I.T. / L.O.T.	/ 1.37sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600 Controlled drilling @ 1859m to pick casing point.				
RT-ML	597.7m	Planned Op Control drill to section TD, circulate hole clean, POH.				
Rig Heading	45.0deg	Rig up and run 340 mm (13-3/8") casing.				

Summary of Period 0000 to 2400 Hrs

Tripped in hole with a new 445mm (17-1/2") bit. Drilled out the remaining shoe track and 3m of new formation to 1410 mRT.
Observed new formation circulated to surface.
Conducted LOT to 1.37 sg (11.4ppg) EMW.
Drilled ahead from 1410m to 1720 mRT (310m).

Operations For Period 0000 Hrs to 2400 Hrs on 28 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	U	HBHA	0000	0130	1.50	1407.0m	Broke out 445mm (17-1/2") Bit #3. Made up new Bit #4. TIH 445mm (17-1/2") Rotary BHA.
IH	U	TI	0130	0400	2.50	1407.0m	Continued TIH 445mm (17-1/2") BHA on 127mm (5") drill pipe.
IH	P	DFS	0400	0600	2.00	1407.0m	Tagged bottom, patterned in new bit. Continued to drill out the shoe track from 1383m to 1399 mRT (16m). Parameters: WOB 3/5 t (5/10 klbs), 3407 L/min (900 gpm), 15 MPa (2100psi), TQ 4/7 kNm (3/6 kft.lb), RPM 90.
IH	P	DFS	0600	0730	1.50	1410.0m	Continued drilling out shoe track and 3m of new formation from 1399m to 1410m RT (11m).
IH	P	CS	0730	0900	1.50	1410.0m	Circulated bottoms up and pulled into the casing shoe. 100% new formation observed by the geologist.
IH	P	LOT	0900	1000	1.00	1410.0m	Broke circulation down drill pipe and choke line with Dowell. Pressure tested surface lines to 10 MPa (1500psi). Closed lower annular and conducted LOT to 1.37 sg (11.4ppg) EMW.
IH	P	DA	1000	1730	7.50	1544.0m	1.08 sg (9.0ppg) mud, 4.0 MPa (580psi) pressure, Shoe 1,399m TVDRT Drilled ahead from 1410m to 1544 mRT (134m) with reduced parameters until BHA was clear of the casing and to monitor losses at the shakers. Surveyed and reamed connections.
IH	P	DA	1730	2030	3.00	1659.0m	Parameters: WOB 4/9 t (10/20 klbs), 2271/3217 L/min (600/850 gpm), 13.7 MPa (2000psi), TQ 4/10 kNm (3/8 kft.lb), RPM 90. Drilled ahead from 1544m to 1659 mRT (115m). Increased drilling parameters and continued reaming and surveying on connections:
IH	TP (RE)	RR	2030	2130	1.00	1659.0m	WOB 4/11 t (10/25 klbs), 3217 L/min (880 gpm), 16.5 MPa (2400psi), TQ 4/10 kNm (3/8 kft.lb), RPM 115/130. The RBS clamp failed to release after connection make up. Bled off hydraulic pressure and raised/stowed the RBS manually. Note 1: The first stand after the RBS was stowed away was stabbed manually - a safety meeting was held with the rig crews to discuss hazards of this operation.
IH	P	DA	2130	2400	2.50	1720.0m	Drilled ahead from 1659m to 1720 mRT (61m). Reamed and surveyed connections. Continued to vary flow rate parameters to minimise losses over the blinding shakers. Note 2: The RBS was found to have a loose hydraulic fitting. Secured fitting, function tested and reinstated the RBS.

Operations For Period 0000 Hrs to 0600 Hrs on 29 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	0400	4.00	1813.0m	Drilled ahead from 1720m to 1813 mRT (93m). Continued reaming and surveying on connections: WOB 4/11 t (10/25 klbs), 3217 L/min (880 gpm), 16.5 MPa (2400psi), TQ 4/10 kNm (3/8 kft.lb), RPM 115/130.
IH	P	DA	0400	0600	2.00	1859.0m	Continued drilling ahead from 1813 m to 1859 mRT (46m) Surveyed and reamed on connections. Pumped a 50bbl Hi-Vis pill, no extra cuttings observed at the shakers.

General Comments		
Comments	Rig Requirements	Lessons Learnt
	Starboard crane down for major repairs to the engine.	

WBM Data									
Mud Type:	KCL/Glycol	API FL:	7cm³/30m	KCl:	8%	Solids:	4	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H2O:	95%	PV:	0.015Pa/s
Time:	23:00	HTHP-FL:		MBT:		Oil:		YP:	0.144MPa
Weight:	1.13sg	HTHP-Cake:		PM:	0.3	Sand:	01	Gels 10s:	0.057
Temp:	29.0C°			PF:	0.25	pH:	9.5	Gels 10m:	0.072
						PHPA:	1ppb	Fann 003:	11
								Fann 006:	13
								Fann 100:	27
								Fann 200:	37
								Fann 300:	45
								Fann 600:	60
Comment Treated Active w/ SBicarb & Citrc Acid while drilling shoe track. Added Flowzan to maintain 6rpm specs. Premix was transf'd to withhold mud program parameters & concentrated 1.5ppb PHPA was bled to active to increase conc. Mixed 800bbls premix with brine & drill water (pits 4 &5). Onlined 2 x Centrifuges at 21:45hrs to reduce LGS/Mudwt. Transferred 850bbls KCL/Glycol Brine & mud chems from Pacific Wrangler to Far Grip. Adjusted stock & corrected inventory; Sodium Sulphite & Barite (ex ANZON). OPERATIONAL									

Bit # 3				Wear	I 8	O1 8	D BU	L A	B 0	G I	O2 CD	R PR
Size:	445mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)	6.80mt	No.	Size	Progress		0.0m	Cum. Progress		6.0m	
Type:	Rock	RPM(avg)	90	1	15/32nd"	On Bottom Hrs		0.00h	Cum. On Btm Hrs		9.00h	
Serial No.:	6064598	F.Rate	3407lpm	1	14/32nd"	IADC Drill Hrs		0.00h	Cum IADC Drill Hrs		9.00h	
Bit Model	MXL-T1V	SPP	15168kPa	2	24/32nd"	Total Revs			Cum Total Revs		0	
Depth In	1407.0m	TFA	1.206			ROP(avg)		N/A	ROP(avg)		0.67 m/hr	
Depth Out	1407.0m											
Bitwear Comment		The bit was balled up with float debri preventing the cones from rotating and causing severe damage to the bit.										

Bit # 4				Wear	I	O1	D	L	B	G	O2	R
Size:	445mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)	6.80mt	No. Size		Progress		313.0m	Cum. Progress		313.0m	
Type:	Rock	RPM(avg)	105	1	14/32nd"	On Bottom Hrs		10.50h	Cum. On Btm Hrs		10.50h	
Serial No.:	6064631	F.Rate	3168lpm	1	15/32nd"	IADC Drill Hrs		10.50h	Cum IADC Drill Hrs		10.50h	
Bit Model	MXL-T1V	SPP	14231kPa	2	24/32nd"	Total Revs		64600	Cum Total Revs		64600	
Depth In	1407.0m	TFA	1.206			ROP(avg)		29.81 m/hr	ROP(avg)		29.81 m/hr	
Depth Out												
Daily Comment		Tagged top of float debri, pattern new bit in. Drilled out the shoe track OK. Drilled ahead.										

BHA # 3							
Weight(Wet)	34.02mt	Length	279.1m	Torque(max)	13600.0Nm	D.C. (1) Ann Velocity	27.76mpm
Wt Below Jar(Wet)	18.14mt	String	122.47mt	Torque(Off.Btm)	0.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	122.47mt	Torque(On.Btm)	4080.0Nm	H.W.D.P. Ann Velocity	23.91mpm
		Slack-Off	127.01mt			D.P. Ann Velocity	23.91mpm
BHA Run Description		445 mm (17-1/2") Rotary Assy.					
BHA Run Comment		The bit became balled up with float debri which prevented the cones from rotating which caused bit damage (core damage). POH and replaced the bit only.					

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.44m	445mm	89mm	6064598	2 x 24,1x15, 1x14 Nozzles 7-5/8" x 6-5/8" Conn. Ported Float
Near Bit Stabiliser	1.83m	438mm	76mm	XM743	
Pony Drill Collar	4.03m	210mm	76mm	S80757	
17.25in IB stabiliser	2.01m	438mm	76mm	207A36	Totco ring
Saver Sub	0.38m	210mm	76mm	ASQ8008	
ARC-8	5.53m	207mm	76mm	2724	
Saver Sub	0.37m	210mm	76mm	SB03181	
Telescope HF	7.56m	210mm	73mm	FB46	
Saver Sub	0.47m	210mm	76mm	055060087C	
X/O	0.44m	210mm	76mm	SBD2858	
17.25in IB stabiliser	1.85m	438mm	76mm	207A77	
8in Non-Mag Pony Collar	9.46m	210mm	83mm	SBD5552	
8in DC	75.47m	203mm	73mm		
8in Jar	9.59m	210mm	76mm	489070	
8in DC	18.91m	203mm	73mm		
X/O	1.09m	203mm	73mm	GVD12204	
HWDP	139.62m	127mm	78mm		

BHA # 4

Weight(Wet)	34.02mt	Length	279.1m	Torque(max)	10880.0Nm	D.C. (1) Ann Velocity	25.81mpm
Wt Below Jar(Wet)	18.14mt	String	131.54mt	Torque(Off.Btm)	0.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	136.08mt	Torque(On.Btm)	10880.0Nm	H.W.D.P. Ann Velocity	22.23mpm
		Slack-Off	136.08mt			D.P. Ann Velocity	22.23mpm

BHA Run Description 445 mm (17-1/2") Rotary Assy.

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.44m	445mm	89mm	6064598	2 x 24,1x15, 1x14 Nozzles 7-5/8" x 6-5/8" Conn. Ported Float
Near Bit Stabiliser	1.83m	438mm	76mm	XM743	
Pony Drill Collar	4.03m	210mm	76mm	S80757	
17.25in IB stabiliser	2.01m	438mm	76mm	207A36	Totco ring
Saver Sub	0.38m	210mm	76mm	ASQ8008	
ARC-8	5.53m	207mm	76mm	2724	
Saver Sub	0.37m	210mm	76mm	SB03181	
Telescope HF	7.56m	210mm	73mm	FB46	
Saver Sub	0.47m	210mm	76mm	055060087C	
X/O	0.44m	210mm	76mm	SBD2858	
17.25in IB stabiliser	1.85m	438mm	76mm	207A77	
8in Non-Mag Pony Collar	9.46m	210mm	83mm	SBD5552	
8in DC	75.47m	203mm	73mm		
8in Jar	9.59m	210mm	76mm	489070	
8in DC	18.91m	203mm	73mm		
X/O	1.09m	203mm	73mm	GVD12204	
HWDP	139.62m	127mm	78mm		

Survey

MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
1436.48	0.2	345.4	1436.48	2.55	0.00	2.55	-0.66	MWD
1466.32	0.3	343.2	1466.31	2.67	0.08	2.67	-0.70	MWD
1523.81	0.3	327.5	1523.80	2.92	0.04	2.92	-0.81	MWD
1552.31	0.2	306.7	1552.30	3.00	0.14	3.00	-0.87	MWD
1610.49	0.2	273.1	1610.48	3.05	0.06	3.05	-1.04	MWD
1667.70	0.1	327.5	1667.69	3.10	0.09	3.10	-1.16	MWD

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	75	2	0	221.0	Santos	7
Gel	MT	0	0	0	27.0	DOGC	49
Cement	MT	48	0	0	101.0	ESS	8
HTB cement	MT	0	46	0	4.0	BHI	6
Fuel	M3	250	6.4	0	497.5	Rheochem	2
Potable Water	M3	34	26	0	337.0	Dowell	2
Drill Water	M3	0	75	0	643.0	TMT	3
Helifuel	Litres	0	0	0	0.0	Schlumberger Drilling & Measurements	4
KCl Brine	M3	0	0	0	0.0	MI Swaco	1
Mud	M3	0	0	0	0.0	Knowledge Systems	1
						Premium Casing Services	6
						Dril-Quip	2
						Schlumberger Wireline	2
						Total	93

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		24 May 2008	4 Days	Held night fire drill. Simulated a fire in the store room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	24	28 May 2008	0 Days	Drill crew - 8 Deck crew - 22 Mech - 0 Weld - 2 Elect - 0 Painter - 3 Marine - 1
Lost Time Incident		17 Nov 2006	558 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting	4	28 May 2008	0 Days	Discussed upcoming operations, read daily stop cards.
PTW Issued	14	28 May 2008	0 Days	7 x cold work permits 7 x hot work permits
Safety Meeting	3	25 May 2008	3 Days	Reviewed stop cards for the week and awarded Santos best stop card to Mike Honey. Reviewed safety alerts and discussed Back Strains and correct lifting techniques. Presentation given by Schlumberger on the safe use of radioactive sources and what controls are in place when this is used in BHA's. Discussed the fire drill and the abandonment drill held earlier.
Santos Induction	1	28 May 2008	0 Days	Held a Santos induction for the new personnel to the rig on todays chopper.
Stop Observations	68	28 May 2008	0 Days	49 - Safe 19 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	527.8m³	Losses	60.1m³	Equip.	Descr.	Mesh Size	Hours
Active	83.9m³	Downhole		Centrifuge 1	MI Swaco		0
Mixing		Surf+ Equip	58.7m³	Centrifuge 1	MI Swaco		2
Hole	299.2m³	Dumped		Centrifuge 2	MI Swaco		0
Slug		De-Sander		Centrifuge 2	MI Swaco		2
Reserve	124.2m³	De-Silter		Shaker 1	MI Swaco	10/10/165/165/165/165	0
Kill		Centrifuge	1.4m³	Shaker 1	MI Swaco	10/10/84/84/84/84	24
Brine	20.5m³			Shaker 2	MI Swaco	10/10/84/84/84/84	0
				Shaker 2	MI Swaco	10/10/84/84/84/84	24
				Shaker 3	MI Swaco	10/10/84/84/84/84	0
				Shaker 3	MI Swaco	10/10/84/84/84/84	24
				Shaker 4	MI Swaco	10/10/84/84/84/84	0
				Shaker 4	MI Swaco	10/10/84/84/84/84	24
Comment Reduced drilling parameters due to screens blinding and losses occurring.							

Marine										
Weather check on 28 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
14.8km	37km/h	270.0deg	1020.00bar	14.0C°	0.5m	270.0deg	3sec	1	1391.1	161.03
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1438.0	141.07
0.5deg	0.4deg	0.50m	1.5m	220.0deg	10sec	Overcast		3	1435.0	156.04
Rig Dir.	Ris. Tension	VDL	Comments		4			1386.8	146.96	
45.0deg	218.18mt	1104.50mt	Guide Line Tension: 24 kips.		5			1403.9	136.99	
								6	1428.0	167.83
								7	1461.8	170.10
								8	1442.0	175.99

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	07:00 27th May		Running standby Ocean Patriot	Item	Unit	Quantity
				Fuel	m3	295
				Potable Water	m3	436
				Drill Water	m3	830
				Cement	mt	0
				HTB cement	mt	44.5
				Barite	mt	0
				Gel	mt	0
				KCl Brine	m3	135
				Mud	m3	0
Pacific Wrangler		13:00hrs 28th May	Transit to Portland, ETA 0700hrs 29th May.	Item	Unit	Quantity
				Fuel	m3	479
				Potable Water	m3	195
				Drill Water	m3	346
				Cement	mt	15.5
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	80
				KCl Brine	m3	0
				Mud	m3	0

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BWJ	10:18	Jarver 1	Returned to the rig due to a door light coming on mid flight. Rechecked doors OK.	10
BWJ	10:27	Jarver 1		0
BWJ	10:35	Wynyard		3
BWJ	10:35	Wynyard		0

From : Chris Roots / Nathan Peri OIM : Dennis Gore						
Well Data						
Country	Australia	Measured Depth	1947.0m	Current Hole Size	445mm	
Field	Jarver	TVD	1947.0m	Casing OD	508mm	
Drill Contractor	DOGC	Progress	227.0m	Shoe MD	1399.0m	
Rig	Ocean Patriot	Days from spud	13.77	Shoe TVD	1399.0m	
Water Depth (LAT)	576.2m	Days on well	16.33	F.I.T. / L.O.T.	/ 1.37sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Rigging up to run 340 mm (13-3/8") 68ppf L-80 BTC casing shoe track. Repairs to PCS elevators.			
RT-ML	597.7m	Planned Op	Continue running 340 mm (13-3/8") 68ppf L-80 BTC casing to bottom. Land and latch the casing on drill pipe. Cement casing as per program.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Drilled from 1720m to 1947 mMD RT / TVD casing landing point.
 POH and laid out MWD / Bit.
 Pulled the bore protector.

Operations For Period 0000 Hrs to 2400 Hrs on 29 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IH	P	DA	0000	0400	4.00	1813.0m	Drilled ahead from 1720m to 1813 mRT (93m). Continued reaming and surveying on connections: WOB 4/11 t (10/25 klbs), 3217 L/min (880 gpm), 16.5 MPa (2400psi), TQ 4/10 kNm (3/8 kft.lb), RPM 115/130.
IH	P	DA	0400	0600	2.00	1859.0m	Continued drilling ahead from 1813 m to 1859 mRT (46m) Surveyed and reamed on connections. Pumped a 50bbl Hi-Vis pill, no extra cuttings observed at the shakers.
IH	P	DA	0600	1000	4.00	1947.0m	Controlled drill from 1859m to 1947 mRT (88m). Casing point picked from gamma ray/ samples. Last survey taken: 1928 m MD / TVDRT, Incl 0.4°, Azi 341°.
IH	P	CHC	1000	1330	3.50	1947.0m	Circulated bottoms up from 1947 mRT @ 3180 L/min (840 gpm) until the shakers were clean. Flow checked the well.
IC	P	TO	1330	1530	2.00	1947.0m	POH from 1947 mRT. Pulled the first 5 stands wet to 1803 m, pumped a 4 m³ (25 bbl) slug, continued POH. Good hole conditions, no overpulls observed.
IC	P	TO	1530	1730	2.00	1947.0m	Flow checked the well from inside the casing shoe @ 1347 mRT. Continued POH to the BOPs, flow checked BHA below the BOPs @ 916 m. Concurrently drifted drill pipe to 67 mm (2.625").
IC	P	TO	1730	1830	1.00	1947.0m	Continued POH from 916 m to 279 m.
IC	P	HBHA	1830	2130	3.00	1947.0m	Pulled BHA from 279m RT. Laid out the MWD & broke out the bit.
IC	P	CRN	2130	2230	1.00	1947.0m	Made up Jetting Sub and one stand HWDP below bore protector p/tool. TIH. Concurrently flushed out choke and kill lines.
IC	P	CRN	2230	2400	1.50	1947.0m	Jetted across the BOP & bore protector @ 1616 L/min (427 gpm), 3 MPa (400psi). Landed and latched p/tool and rechecked Index Line / Datum measurements. Pulled the bore protector with 4.5 t (10 klbs) over pull.

Operations For Period 0000 Hrs to 0600 Hrs on 30 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	CRN	0000	0030	0.50	1947.0m	Pulled bore protector above BOP. Jetted wellhead area again @ 1616 L/min (427gpm) 3 MPa (400psi). No losses observed to the hole.
IC	P	CRN	0030	0130	1.00	1947.0m	Pulled bore protector to surface. No visible wear on the bore protector.
IC	P	CRN	0130	0200	0.50	1947.0m	Rigged down bore protector running and jetting tool.
IC	P	CRN	0200	0400	2.00	1947.0m	Rigged up and changed out 350 t bails to 500 t bails. Removed the master bushings and installed the FMS. Made up the Fill Up tool.
IC	P	CRN	0400	0430	0.50	1947.0m	Held a casing running safety meeting. Discussed JSA and focused on the changes to the operation due to the port crane only been used and new hazards that this presented.
IC	P	CRN	0430	0530	1.00	1947.0m	Picked up the 340 mm (13-3/8") casing float shoe and set in the FMS. Installed the 500t elevators. Static losses = 0.5 m3/hr (3 bbl/hr)
IC	TP (VE)	CRN	0530	0600	0.50	1947.0m	Unable to function the 500 t elevators, worked on the elevators to repair them.

WBM Data									
Mud Type:	KCL/Glycol	API FL:	7cm ³ /30m	KCl:	8%	Solids:	4	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H ₂ O:	96%	PV:	0.013Pa/s
Time:	22:30	HTHP-FL:		MBT:		Oil:		YP:	0.158MPa
Weight:	1.13sg	HTHP-Cake:		PM:	0.3	Sand:	01	Gels 10s:	0.057
Temp:	21.0C°			PF:	0.15	pH:	9	Gels 10m:	0.067
						PHPA:	1ppb	Fann 003:	11
								Fann 006:	13
								Fann 100:	35
								Fann 200:	46
								Fann 300:	52
								Fann 600:	71
Comment Blended 440bbls drill water w/ 440bbls brine, mixed in treatment chemicals & transferred to the active to maintain circulating volume.Mixed 50bbls pumpable HW slug for POOH at section TD. USED new 5x20 mesh & new 4x40 mesh screens.Received from Far Grip; 455bbls Brine. Transferred 26MT Gel from Rig to Far Grip to relieve deckload on rig.Noncorrected Retort solids = 10%.*.* Tested Flowline mud sample @ 1936m (78F); yP = 38, 6rpm = 15.									

Bit # 4				Wear	I 0	O1 1	D CT	L G1	B E	G I	O2 ER	R TD
Size:	445mm	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)	6.80mt	No. Size		Progress		227.0m	Cum. Progress		540.0m	
Type:	Rock	RPM(avg)	115	1	14/32nd"	On Bottom Hrs		6.50h	Cum. On Btm Hrs		17.00h	
Serial No.:	6064631	F.Rate	3180lpm	1	15/32nd"	IADC Drill Hrs		10.00h	Cum IADC Drill Hrs		20.50h	
Bit Model	MXL-T1V	SPP	15789kPa	2	24/32nd"	Total Revs		64600	Cum Total Revs		129200	
Depth In	1407.0m	TFA	1.206			ROP(avg)		34.92 m/hr	ROP(avg)		31.76 m/hr	
Depth Out	1947.0m											
Daily Comment		Hard facing missing from tips of teeth on #1 cone, this has resulted in erosion. Numerous teeth on cone #1 have cracks on the side of the outer row teeth. This wear is unique to cone #1.										
		Appears as if cone #1 has been doing all the work.										

BHA # 4							
Weight(Wet)	34.02mt	Length	279.1m	Torque(max)	25840.0Nm	D.C. (1) Ann Velocity	25.9mpm
Wt Below Jar(Wet)	18.14mt	String	138.35mt	Torque(Off.Btm)	2720.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	136.08mt	Torque(On.Btm)	9520.0Nm	H.W.D.P. Ann Velocity	22.31mpm
		Slack-Off	140.61mt			D.P. Ann Velocity	22.31mpm
BHA Run Description		445 mm (17-1/2") Rotary Assy.					
BHA Run Comment		Drilled to casing point of 1,947 mRT @ 10:00hrs.					
Equipment		Length	OD	ID	Serial #	Comment	
Bit		0.44m	445mm	89mm	6064598	2 x 24,1x15, 1x14 Nozzles 7-5/8" x 6-5/8" Conn. Ported Float	
Near Bit Stabiliser		1.83m	438mm	76mm	XM743		
Pony Drill Collar		4.03m	210mm	76mm	S80757		
17.25in IB stabiliser		2.01m	438mm	76mm	207A36		
Saver Sub		0.38m	210mm	76mm	ASQ8008	Totco ring	
ARC-8		5.53m	207mm	76mm	2724		
Saver Sub		0.37m	210mm	76mm	SB03181		
Telescope HF		7.56m	210mm	73mm	FB46		
Saver Sub		0.47m	210mm	76mm	055060087C		
X/O		0.44m	210mm	76mm	SBD2858		
17.25in IB stabiliser		1.85m	438mm	76mm	207A77		
8in Non-Mag Pony Collar		9.46m	210mm	83mm	SBD5552		
8in DC		75.47m	203mm	73mm			
8in Jar		9.59m	210mm	76mm	489070		
8in DC		18.91m	203mm	73mm			
X/O		1.09m	203mm	73mm	GVD12204		
HWDP		139.62m	127mm	78mm			

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
1753.02	0.2	85.9	1753.01	-2.21	0.08	3.17	-1.09	MWD
1782.05	0.2	30.7	1782.04	-2.17	0.16	3.21	-1.03	MWD
1811.44	0.2	22.5	1811.43	-2.16	0.06	3.30	-0.99	MWD
1840.13	0.4	23.3	1840.12	-2.16	0.20	3.44	-0.93	MWD
1896.95	0.4	21.4	1896.94	-2.16	0.03	3.80	-0.78	MWD
1928.28	0.4	341.3	1928.27	-2.23	0.26	3.99	-0.78	MWD

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	26	0	195.0	Santos	6
Gel	MT	0	0	-27	0.0	DOGC	46
Cement	MT	0	0	0	101.0	ESS	8
HTB cement	MT	0	0	0	4.0	BHI	6
Fuel	M3	0	16	0	481.5	Rheochem	2
Potable Water	M3	33	29	0	341.0	Dowell	2
Drill Water	M3	0	132	0	511.0	TMT	3
Helifuel	Litres	0	0	0	0.0	Schlumberger Drilling & Measurements	4
KCl Brine	M3	0	0	0	0.0	MI Swaco	1
Mud	M3	0	0	0	0.0	Knowledge Systems	1
						Premium Casing Services	6
						Dril-Quip	2
						Schlumberger Wireline	2
						Total	89

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		24 May 2008	5 Days	Held night fire drill. Simulated a fire in the store room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	35	29 May 2008	0 Days	Drill crew - 10 Deck crew - 21 Mech - 4
Lost Time Incident		17 Nov 2006	559 Days	Last LTI on Ocean Patriot (Not contracted for Santos)
Pre-Tour Meeting	4	29 May 2008	0 Days	Discussed upcoming operations, read daily stop cards.
PTW Issued	10	29 May 2008	0 Days	2 x cold work permits 8 x hot work permits
Safety Meeting	3	25 May 2008	4 Days	Reviewed stop cards for the week and awarded Santos best stop card to Mike Honey. Reviewed safety alerts and discussed Back Strains and correct lifting techniques. Presentation given by Schlumberger on the safe use of radioactive sources and what controls are in place when this is used in BHA's. Discussed the fire drill and the abandonment drill held earlier.
Santos Induction	2	29 May 2008	0 Days	Held several Santos inductions for those personnel new to the rig.
Stop Observations	38	29 May 2008	0 Days	22 - Safe 16 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	537.7m³	Losses	156.5m³	Equip.	Descr.	Mesh Size	Hours
Active	11.1m³	Downhole	143.6m³	Centrifuge 1	MI Swaco		2
Mixing		Surf+ Equip		Centrifuge 1	MI Swaco		13
Hole	338.6m³	Dumped		Centrifuge 2	MI Swaco		2
Slug	4.5m³			Centrifuge 2	MI Swaco		3
Reserve	163.1m³	De-Sander		Shaker 1	MI Swaco	10/10/84/84/84/84	24
Kill		De-Silter		Shaker 1	MI Swaco	40/20/84/84/84/84	24
Brine	20.4m³	Centrifuge	12.9m³	Shaker 2	MI Swaco	10/10/84/84/84/84	24
				Shaker 2	MI Swaco	40/20/84/84/84/84	24
				Shaker 3	MI Swaco	10/10/84/84/84/84	24
				Shaker 3	MI Swaco	40/20/84/84/84/84	24
				Shaker 4	MI Swaco	10/10/84/84/84/84	24
				Shaker 4	MI Swaco	40/20/84/84/84/84	24
Comment Reduced drilling parameters due to screens blinding and losses occurring.							

Marine											
Weather check on 29 May 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	35km/h	320.0deg	1020.00bar	15.0C°	0.5m	320.0deg	3sec	1	1487.4	136.99	
2								2	1441.7	122.92	
3								3	1432.6	137.89	
4								4	1389.0	138.80	
5								5	1393.9	150.14	
6								6	1410.9	191.87	
7								7	1447.8	169.19	
8								8	1437.1	174.18	
Roll								Pitch			
Heave		Swell Height		Swell Dir.		Swell Period		Weather Comments			
0.4deg		0.3deg		0.70m		2.0m		270.0deg		10sec	
Rig Dir.		Ris. Tension		VDL		Comments					
45.0deg		218.18mt		1076.38mt		Guide Line Tension: 24 kips.					

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	07:00 27th May		Running standby Ocean Patriot. Received 26 mt of Gel from the rig. Transferred 72 m³ brine to the rig.	Item	Unit	Quantity
				Fuel	m3	286
				Potable Water	m3	420
				Drill Water	m3	830
				Cement	mt	0
				HTB cement	mt	45
				Barite	mt	0
				Gel	mt	26
				KCl Brine	m3	63
				Mud	m3	0
Pacific Wrangler		13:00hrs 28th May	Transit to Portland, ETA 0700hrs 29th May.	Item	Unit	Quantity
				Fuel	m3	479
				Potable Water	m3	195
				Drill Water	m3	346
				Cement	mt	15.5
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	80
				KCl Brine	m3	0
				Mud	m3	0

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BWJ	10:15	Jarver 1		0
BWJ	10:26	Wynyard		4

From : Chris Roots / Nathan Peri OIM : Dennis Gore						
Well Data						
Country	Australia	Measured Depth	1947.0m	Current Hole Size	315mm	
Field	Jarver	TVD	1947.0m	Casing OD	508mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1399.0m	
Rig	Ocean Patriot	Days from spud	14.77	Shoe TVD	1399.0m	
Water Depth (LAT)	576.2m	Days on well	17.33	F.I.T. / L.O.T.	/ 1.37sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Landed the 340mm (13-3/8") 68# L-80 BTC casing.			
RT-ML	597.7m	Planned Op	Circulate casing volume. Cement the casing. Displace cement with mud. Bump the plug to 1,000psi Set the Seal Assembly. Pressure test the seal assembly against the closed Annular to 4400psi. Conduct BOP / C&K manifold pressure test. Pull the casing hanger running tool.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

POH bore protector.
Rigged up to run 340mm (13-3/8") casing.
Ran casing down to 1021 mRT.
Hand injury occurred while running 340mm (13 3/6") casing.
Continued running casing down to 1320 mRT.
Wait on medivac (crane boom lowered).

Operations For Period 0000 Hrs to 2400 Hrs on 30 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	CRN	0000	0030	0.50	1947.0m	Pulled bore protector above BOP. Jetted wellhead area again @ 1616 L/min (427gpm) 3 MPa (400psi). No losses observed to the hole.
IC	P	CRN	0030	0130	1.00	1947.0m	Pulled bore protector to surface. No visible wear on the bore protector.
IC	P	CRN	0130	0200	0.50	1947.0m	Rigged down bore protector running and jetting tool.
IC	P	CRN	0200	0400	2.00	1947.0m	Rigged up and changed out 350 t bails to 500 t bails. Removed the master bushings and installed the FMS. Made up the Fill Up tool.
IC	P	CRN	0400	0430	0.50	1947.0m	Held a casing running safety meeting. Discussed JSA and focused on the changes to the operation due to the port crane only been used and new hazards that this presented.
IC	P	CRN	0430	0530	1.00	1947.0m	Picked up the 340 mm (13-3/8") casing float shoe and set in the FMS. Installed the 500t elevators. Static losses = 0.5 m3/hr (3 bbl/hr)
IC	TP (VE)	CRN	0530	0700	1.50	1947.0m	Unable to function the 500 t elevators. Repaired elevators.
IC	TP (VE)	CRN	0700	0730	0.50	1947.0m	Repaired air leak on the FMS.
IC	P	CRN	0730	0930	2.00	1947.0m	Filled Float Shoe and picked up to check the float working, OK. Run float shoe empty and checked the float has sealed, OK. Baker locked and made up the Intermediate Jt and Float Collar. Function tested the Float Collar.
IC	P	CRN	0930	1200	2.50	1947.0m	Ran 340 mm (13-3/8") 68# L-80 BTC casing from 38m to 279m (20 Jts) filling casing every joint. Avg makeup torque : 15,000ft/lbs (mid triangle)
IC	P	CRN	1200	1800	6.00	1947.0m	Continued running casing from 279m to 1021m (63 Jts).
IC	TP (OTH)	CRN	1800	2100	3.00	1947.0m	Incident occurred on the rig floor where a person had his hand pinched between casing tong & stand at 8" DC's in derrick. Injured party required medivac. Stopped all operations and investigated area with all parties concerned. Discussed hazards and made the changes required to continue safely. # Repositioned tie back lines to secure tong better # Changed tong tie-back hooks and welded handles to prevent pinch points. # Moved equipment around to give more room to work.
IC	P	CRN	2100	2330	2.50	1947.0m	Continued running casing from 1021m to 1320m (26 Jts). Note: Reviewed the operation on start up to identify if the changes introduced more hazards to the operation. Review team consisted of Night DSV, Night Toolpusher and BCO. The BCO (Ballast control operator) was new to the floor and watched the operation without noting any more hazards. Operations were then reviewed another safety meeting held with the crews. No additional changes were required to the operation.
IC	TP (HELO)	CRN	2330	2400	0.50	1947.0m	Operation shutdown for the medivac helicopter.

Operations For Period 0000 Hrs to 0600 Hrs on 31 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	CRN	0000	0030	0.50	1947.0m	Medivac departed. Held a safety meeting for the new crew coming on tour. discussed the incident and the new changes to the operation.
IC	P	CRN	0030	0100	0.50	1947.0m	Ran 340mm (13-3/8") 68# L-80 BTC casing from 1320m to 1343 mRT (2 jts). No static losses.
IC	P	CRN	0100	0200	1.00	1947.0m	Held a JSA. Rigged down the 500 t elevators and the fillup tool. Made up 127mm (5") drill pipe elevators and latched the Casing hanger from the derrick.
IC	P	CRN	0200	0230	0.50	1947.0m	Installed the Cement Plugs to the Casing Hanger and made up the assembly to the casing string.
IC	P	CRN	0230	0300	0.50	1947.0m	Rigged down the power tongs and FMS. Installed master bushings. Lowered the Casing hanger assy down and dressed the Seal Assy. No static losses.
IC	P	CRN	0300	0500	2.00	1947.0m	Picked up out of the slips, no overpull. Ran the 340mm (13-3/8") casing string on 127mm (5") drill pipe landing string. Good hole conditions , no drag observed.
IC	P	CRN	0500	0600	1.00	1947.0m	Set the landing string in the slips (8m) above land off. Made up the DSE cement head and Dbl of drill pipe to the landing string. Made up the Low-Torq/Cement hose and DSE control lines. Landed the Casing Hanger. Checked the land off against the index line. Casing Shoe: 1942 mRT Casing Float: 1915 mRT

WBM Data

Mud Type:	KCL/Glycol	API FL:	6cm³/30m	KCl:	8%	Solids:	4	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H2O:	96%	PV:	0.019Pa/s
Time:	22:00	HTHP-FL:		MBT:		Oil:		YP:	0.144MPa
Weight:	1.13sg	HTHP-Cake:		PM:	0.2	Sand:	01	Gels 10s:	0.053
Temp:	21.0C°			PF:	0.15	pH:	9	Gels 10m:	0.067
						PHPA:	1ppb	Fann 003:	10
								Fann 006:	12
								Fann 100:	31
								Fann 200:	40
								Fann 300:	49
								Fann 600:	68
Comment		Arranged pits 4 & 1 to take the mud returns during the cement operation.Prepared 50bbbls of Seawater for the Cementing unit in the Slug Pit; will be used as a spacer ahead of cement. Monitored mud properties; no treatment required. Prior to cementing displacement mud will be treated with biocide to preserve against bacteria. ** Test #2 has rheology properties tested at ambient temp.							

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	0	195.0
Gel	MT	0	0	0	0.0
Cement	MT	0	0	0	101.0
HTB cement	MT	0	0	0	4.0
Fuel	M3	0	10.5	0	471.0
Potable Water	M3	32	23	0	350.0
Drill Water	M3	320	7	0	824.0
Helifuel	Litres	0	0	0	0.0
KCl Brine	M3	0	0	0	0.0
Mud	M3	0	0	0	0.0

Personnel On Board

Company	Pax
Santos	6
DOGC	46
ESS	8
BHI	6
Rheochem	2
Dowell	2
TMT	3
Schlumberger Drilling & Measurements	4
MI Swaco	1
Knowledge Systems	1
Premium Casing Services	6
Dril-Quip	2
Schlumberger Wireline	2
Serpent	1
Total	90

Casing

OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill	32	24 May 2008	6 Days	Held night fire drill. Simulated a fire in the store room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA		30 May 2008	0 Days	Drill crew - 9 Deck crew - 13 Mech - 2 Welder - 7 Painter - 6
Lost Time Incident	1	30 May 2008	0 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. The person was consious from the time of incident to medivac.
Pre-Tour Meeting	4	30 May 2008	0 Days	Discussed upcoming operations.
PTW Issued	9	30 May 2008	0 Days	2 x cold work permits 7 x hot work permits
Safety Meeting	3	25 May 2008	5 Days	Reviewed stop cards for the week and awarded Santos best stop card to Mike Honey. Reviewed safety alerts and discussed Back Strains and correct lifting techniques. Presentation given by Schlumberger on the safe use of radioactive sources and what controls are in place when this is used in BHA's. Discussed the fire drill and the abandonment drill held earlier.
Santos Induction	2	30 May 2008	0 Days	Held several Santos inductions for those personnel new to the rig.
Stop Observations	55	30 May 2008	0 Days	31 - Safe 24 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	514.5m³	Losses	11.3m³	Equip.	Descr.	Mesh Size	Hours
Active	76.6m³	Downhole	3.3m³	Centrifuge 1	MI Swaco		13
Mixing		Surf+ Equip	0.0m³	Centrifuge 1	MI Swaco		0
Hole	329.3m³	Dumped	4.5m³	Centrifuge 2	MI Swaco		3
Slug	0.0m³	De-Sander		Centrifuge 2	MI Swaco		0
Reserve	88.7m³	De-Silter		Shaker 1	MI Swaco	40/20/84/84/84/84	24
Kill		Centrifuge	0.0m³	Shaker 1	MI Swaco	40/20/84/84/84/84	12
Brine	19.9m³	Tripping	3.5m³	Shaker 2	MI Swaco	40/20/84/84/84/84	24
				Shaker 2	MI Swaco	40/20/84/84/84/84	12
				Shaker 3	MI Swaco	40/20/84/84/84/84	24
				Shaker 3	MI Swaco	40/20/84/84/84/84	12
				Shaker 4	MI Swaco	40/20/84/84/84/84	24
				Shaker 4	MI Swaco	40/20/84/84/84/84	12
Comment prepared the pits for cementing volume returns and displacing to mud.							

Marine										
Weather check on 30 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
14.8km	50km/h	265.0deg	1018.00bar	15.0C°	1.0m	265.0deg	3sec	1	1393.5	136.99
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments				
0.8deg	0.5deg	0.70m	2.0m	2602.0deg	10sec					
Rig Dir.	Ris. Tension	VDL	Comments							
45.0deg	218.18mt	1044.62mt	Guide Line Tension: 24 kips.							
								8	1434.7	174.18

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	07:00 27th May		On location, running standby. Transferred 230 m3 DW to the rig.	Item	Unit	Quantity
				Fuel	m3	274
				Potable Water	m3	412
				Drill Water	m3	500
				Cement	mt	0
				HTB cement	mt	45
				Barite	mt	0
				Gel	mt	26
				KCl Brine	m3	63
				Mud	m3	0
Pacific Wrangler			Transit to Ocean Patriot, ETA 1400hrs 31st May.	Item	Unit	Quantity
				Fuel	m3	469
				Potable Water	m3	235
				Drill Water	m3	493
				Cement	mt	60
				HTB cement	mt	0
				Barite	mt	105
				Gel	mt	80
				KCl Brine	m3	220
				Mud	m3	0

Helicopter Movement

Flight #	Time	Destination	Comment	Pax
BWJ	10:15	Jarver 1	Medivac one person off.	2
BWJ	10:26	Wynyard		3
Westpac Rescue	23:19	Jarver 1		0
Westpac Rescue	23:52	Royal Hobart Hospital		1

From : Chris Roots / Nathan Peri
OIM : Dennis Gore
Well Data

Country	Australia	Measured Depth	1947.0m	Current Hole Size	315mm	
Field	Jarver	TVD	1947.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	15.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	18.33	F.I.T. / L.O.T.	/ 1.37sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Laying out the deepsea express.			
RT-ML	597.7m	Planned Op	Complete the slip & cut. Make up the 311 mm (12-1/4") BHA. TIH BHA to above BOPs. Close the Shear rams and pressure test the casing to 30 MPa (4400psi). Continue TIH, tag cement, drill out cement / shoe track and formation. Conduct LOT, drill ahead.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Ran and landed the 340 mm (13-3/8") 68# L-80 BTC casing.
Circulated the casing volume and cemented in the casing, displacing with mud.
Set and tested the seal assembly.
Tested the BOPs.
Attempted to set the Wear Bushing.

Operations For Period 0000 Hrs to 2400 Hrs on 31 May 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	CRN	0000	0030	0.50	1947.0m	Medivac departed. Held a safety meeting for the new crew coming on tour. discussed the incident and the new changes to the operation.
IC	P	CRN	0030	0100	0.50	1947.0m	Ran 340mm (13-3/8") 68# L-80 BTC casing from 1320m to 1343 mRT (2 jts). No static losses.
IC	P	CRN	0100	0200	1.00	1947.0m	Held a JSA. Rigged down the 500 t elevators and the fillup tool. Made up 127mm (5") drill pipe elevators and latched the Casing hanger from the derrick.
IC	P	CRN	0200	0230	0.50	1947.0m	Installed the Cement Plugs to the Casing Hanger and made up the assembly to the casing string.
IC	P	CRN	0230	0300	0.50	1947.0m	Rigged down the power tongs and FMS. Installed master bushings. Lowered the Casing hanger assy down and dressed the Seal Assy. No static losses.
IC	P	CRN	0300	0500	2.00	1947.0m	Picked up out of the slips, no overpull. Ran the 340mm (13-3/8") casing string on 127mm (5") drill pipe landing string. Good hole conditions , no drag observed.
IC	P	CRN	0500	0600	1.00	1947.0m	Set the landing string in the slips (8m) above land off. Made up the DSE cement head and Dbl of drill pipe to the landing string. Made up the Low-Torq/Cement hose and DSE control lines. Landed the Casing Hanger. Checked the land off against the index line. Casing Shoe: 1942 mRT Casing Float: 1915 mRT
IC	P	CIC	0600	0800	2.00	1947.0m	Circulated 100% casing volume 111 m³ (700 bbls) @ 1423 L/min (376 gpm), 3 MPa (400psi). Concurrently pressure tested the surface cement line to 30 MPa (4400psi).
IC	P	CMC	0800	1000	2.00	1947.0m	Held cementing JSA. Lined up to the cement unit, pumped 3.0 m³ (20 bbls) of seawater. Dropped bottom dart and circulated down to shear bottom plug with 5.2 m³ (33 bbls) of sea water. Plug sheared @ 15.8 MPa (2,300psi). Mixed and pumped 49 m³ (308 bbls) Class 'G' Lead slurry at 1.50 sg (12.50 ppg). Mixed and pumped 18 m³ (112 bbls) Class 'G' Tail slurry at 1.9 sg (15.8 ppg). Dropped top dart and circulated down to shear top plug with 5.2m³ (33 bbls) of sea water. Plug sheared @ 12.4 MPa (1800psi). Pumped a further 1.5 m³ (10 bbls) of sea water.
IC	P	CMC	1000	1130	1.50	1947.0m	Lined up to the rig mud pumps to displace with 1.12 sg (9.4ppg) mud. Displaced @ 2,021 L/min (12 bbl/min), reduced pump rate to 795 L/min (5 bbls/min) prior to calculated bump vol of 103 m³ (646 bbls). Did not bump the plug. Pumped half shoe track vol 1 m³ (6.5bbls). No plug bump. Bled off pressure differential of 4.5 MPa (650psi). Floats holding. No mud losses recorded while displacing.
IC	P	WH	1130	1200	0.50	1947.0m	Removed cement hose and DSE control lines. Set down 9 t (20 klbs) down and rotated the landing string 6.0 turns to the right. Observed the landing string drop 254 mm.
IC	P	WH	1200	1300	1.00	1947.0m	Closed the lower annular and pressured tested the seal assembly to 34.5 MPa (5000 psi), good test.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	BOP	1300	1700	4.00	1947.0m	Opened the lower annular. Pulled 36 t (80 klbs) to shear out of the seal assembly. Set down 9 t (20 klbs) to reseal the running tool.
IC	P	TO	1700	2000	3.00	1947.0m	Lined up for BOP testing. Pressure tested the BOP's to 1.4 / 30 MPa (200/4400 psi) for 5/10 minutes (no shear ram test).
PH	P	WH	2000	2400	4.00	1947.0m	Broke out DSE and lay out. POOH Seal Assembly running tool. Picked up 18-3/4" x 13-3/8" Wear Bushing. RIH and landed WB, checked index line, set 9 t (20 klbs) down. Closed the lower annular and pressured up to 6.9 MPa (1,000psi) for 5 minutes. Opened annular and picked up observing only 4.5 t (10 klbs) overpull (shear pin value = 30 klbs). Repeated the operation and increased the pressure to 13.7 MPa (2000 psi). No overpull observed. POOH.

Operations For Period 0000 Hrs to 0600 Hrs on 01 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	WH	0000	0030	0.50	1947.0m	Continued to POOH. Wear Bushing still attached, no indication on the shear pins of seating.
IC	TP (CWR)	CRN	0030	0430	4.00	1947.0m	Made up the Jetting sub below the WB R/tool, TIH to bottom. Jet through the wellhead area. Land the WB and sat 9 t (20 klbs) down. Pulled up and observed a 11 t (25 klbs) overpull. POOH.
IC	P	WH	0430	0500	0.50	1947.0m	Laid out R/Tool and jet sub.
IC	P	CMC	0500	0600	1.00	1947.0m	Picked up the deepsea express cement head. Broke out the upper pup joint and the single below it. Laid out DSE.

WBM Data

Mud Type:	KCL/Glycol	API FL:	5cm³/30m	KCl:	8%	Solids:	3.5	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H2O:	97%	PV:	0.017Pa/s
Time:	23:00	HTHP-FL:		MBT:	6	Oil:		YP:	0.172MPa
Weight:	1.13sg	HTHP-Cake:		PM:	0.2	Sand:	0.25	Gels 10s:	0.057
Temp:	21.0C°			PF:	0.12	pH:	9	Gels 10m:	0.072
						PHPA:	1ppb	Fann 003:	11
								Fann 006:	13
								Fann 100:	36
								Fann 200:	44
								Fann 300:	53
								Fann 600:	70

Comment

While circulating casing contents added Biocide to treat active system. Whilst pressure testing & W.O.C. discharged sandtraps to rid settled solids (130bbbs dumped).
Commenced centrifuging surface mud; retort (uncorrected solids) on mud prior to centrifuging = 12% solids. Barite will be added to reincrease MW back up to 9.4ppg prior to drilling.
Received mud chemicals from Far Grip as per inventory.
*** Test #2 shows rheology properties at ambient temp (70oF).

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	0	195.0
Gel	MT	0	0	0	0.0
Cement	MT	0	59	0	42.0
HTB cement	MT	0	0	0	4.0
Fuel	M3	0	11	0	460.0
Potable Water	M3	34	31	0	353.0
Drill Water	M3	0	0	0	824.0
Helifuel	Litres	0	0	0	0.0
KCl Brine	M3	0	0	0	0.0
Mud	M3	0	0	0	0.0

Personnel On Board

Company	Pax
Santos	6
DOGC	46
ESS	8
BHI	6
Rheochem	2
Dowell	2
TMT	3
Schlumberger Drilling & Measurements	4
MI Swaco	1
Knowledge Systems	1
Premium Casing Services	5
Dril-Quip	2
Serpent	1
Total	87

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		24 May 2008	7 Days	Held night fire drill. Simulated a fire in the store room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	35	31 May 2008	0 Days	Drill crew - 9 Deck crew - 16 Mech - 2 Welder - 5 Painter - 3
Lost Time Incident	1	30 May 2008	1 Day	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	31 May 2008	0 Days	Discussed upcoming operations.
PTW Issued	13	31 May 2008	0 Days	5 x cold work permits 8 x hot work permits
Safety Meeting	3	25 May 2008	6 Days	Reviewed stop cards for the week and awarded Santos best stop card to Mike Honey. Reviewed safety alerts and discussed Back Strains and correct lifting techniques. Presentation given by Schlumberger on the safe use of radioactive sources and what controls are in place when this is used in BHA's. Discussed the fire drill and the abandonment drill held earlier.
Santos Induction	1	31 May 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	64	31 May 2008	0 Days	40 - Safe 24 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	439.3m³	Losses	27.0m³	Equip.	Descr.	Mesh Size	Hours
Active	57.4m³	Downhole	24.3m³	Centrifuge 1	MI Swaco		0
Mixing		Surf+ Equip	0.3m³	Centrifuge 1	MI Swaco		7
Hole	215.7m³	Dumped		Centrifuge 2	MI Swaco		0
Slug	0.0m³	De-Sander		Centrifuge 2	MI Swaco		7
Reserve	146.3m³	De-Silter		Shaker 1	MI Swaco	40/20/84/84/84/84	12
Kill		Centrifuge	2.4m³	Shaker 1	MI Swaco	40/20/84/84/84/84	12
Brine	19.9m³	Tripping		Shaker 2	MI Swaco	40/20/84/84/84/84	12
				Shaker 3	MI Swaco	40/20/84/84/84/84	12
				Shaker 3	MI Swaco	40/20/84/84/84/84	12
				Shaker 4	MI Swaco	40/20/84/84/84/84	12
				Shaker 4	MI Swaco	40/20/84/84/84/84	12

Comment 153 bbls left in hole behind casing.

Marine										
Weather check on 31 May 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	30km/h	155.0deg	1030.00bar	15.0C°	0.4m	155.0deg	3sec	1	1391.7	136.99
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1436.5	143.79
0.8deg	0.5deg	0.70m	1.5m	205.0deg	10sec			3	1435.6	175.09
Rig Dir.	Ris. Tension	VDL	Comments					4	1390.5	182.80
45.0deg	218.18mt	1016.96mt	Guide Line Tension: 24 kips.					5	1395.7	147.87
								6	1412.7	166.92
								7	1453.6	140.16
								8	1436.5	130.18

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		13:00 31 May 08	Transit to Burnie. ETA - 06:30 1st June.	Item	Unit	Quantity
				Fuel	m3	260
				Potable Water	m3	404
				Drill Water	m3	500
				Cement	mt	0
				HTB cement	mt	45
				Barite	mt	0
				Gel	mt	26
				KCl Brine	m3	63
				Mud	m3	0
Pacific Wrangler	10:00 31 May 08		On location Ocean Patriot.	Item	Unit	Quantity
				Fuel	m3	562
				Potable Water	m3	230
				Drill Water	m3	493
				Cement	mt	38
				HTB cement	mt	0
				Barite	mt	105
				Gel	mt	80
				KCl Brine	m3	220
				Mud	m3	0
Helicopter Movement						
Flight #	Time	Destination	Comment	Pax		
N/A			No flights today			

From : Chris Roots / Nathan Peri OIM : Dennis Gore						
Well Data						
Country	Australia	Measured Depth	1947.0m	Current Hole Size	315mm	
Field	Jarver	TVD	1947.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	16.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	19.33	F.I.T. / L.O.T.	/ 1.37sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Drilling out float collar at 1915 mRT.			
RT-ML	597.7m	Planned Op	Drill shoe track + 3m new formation to 1950mRT. Circulate & condition mud. Conduct leak off test. Drill ahead 12 1/4" hole.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Set the 18-3/4" x 13-3/8" Wear Bushing.
Laid out the cement head.
Pressure tested the TDS and Kelly hose.
Picked up 311mm (12-1/4") BHA and TIH to 500m RT.

Operations For Period 0000 Hrs to 2400 Hrs on 01 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	WH	0000	0030	0.50	1947.0m	Continued to POOH. Wear Bushing still attached, no indication on the shear pins of seating.
IC	TP (CWR)	CRN	0030	0430	4.00	1947.0m	Made up the Jetting sub below the WB R/tool, TIH to bottom. Jet through the wellhead area. Land the WB and sat 9 t (20 klbs) down. Pulled up and observed a 11 t (25 klbs) overpull. POOH.
IC	P	WH	0430	0500	0.50	1947.0m	Laid out R/Tool and jet sub.
IC	P	CMC	0500	0600	1.00	1947.0m	Picked up the deepsea express cement head. Broke out the upper pup joint and the single below it. Laid out DSE.
IC	P	SC	0600	0800	2.00	1947.0m	Slipped & cut 38m of drill line. Function tested crown-o-matic.
IC	P	RS	0800	0830	0.50	1947.0m	Serviced the TDS and block.
IC	P	PT	0830	1030	2.00	1947.0m	Held pre-job meeting. Pressure tested the Kelly hose, upper and lower IBOPs to 1.4/34.5 MPa (200/5000psi) for 5/10 min.
IC	P	HBHA	1030	1100	0.50	1947.0m	Rigged down the 500t bails & changed to 350t bails.
IC	P	HBHA	1100	1800	7.00	1947.0m	Picked up 311 mm (12-1/4") bit and FEWD tools. Shallow pulse tested the tools @ 55m. Good test.
IC	TP (LTF)	HBHA	1800	2100	3.00	1947.0m	Held JSA. Installed radio active source to LWD tools. TIH and shallow tested the tools @ 150mRT, No realtime communication from ADN tool.POOH Removed radio active source. Rechecked the electrical connection between ADN and Sonic vision. Installed radio active source. TIH and shallow tested the tools w/ 2650 L/min (700gpm), 4.5 MPa (650psi) - good response.
IC	P	HBHA	2100	2330	2.50	1947.0m	Continued to make up 311 mm (12-1/4") BHA from 150m to 290m RT.
IC	P	TI	2330	2400	0.50	1947.0m	TIH 311mm (12-1/4") BHA on 127mm (5") drill pipe to 500 mRT.

Operations For Period 0000 Hrs to 0600 Hrs on 02 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	PT	0000	0100	1.00	1947.0m	Lined up cement unit to the choke line and flushed through 1.5 m³ (10 bbls) of mud. Closed the Shear rams and conducted a pressure test of the 340mm (13 3/8") casing to 24 MPa (3500psi) with 1.3 m³ (8.4bbls) of 1.12 sg (9.4ppg) mud.
IC	P	TI	0100	0400	3.00	1947.0m	Opened shear rams and continued TIH filling pipe every 20 stands.
IC	P	RW	0400	0430	0.50	1947.0m	Washed down with 185 L/min (700gpm) from 1902m to tag the cement @ 1913mRT.
IC	P	DFS	0430	0600	1.50	1947.0m	Patterned in new 311mm (12-1/4") PDC bit with 1-2 t (2-5 klbs) WOB, 40 rpm, 185 L/min (700gpm) and 13.8 MPa (2000psi). Drilled out cement plugs from 1913m to 1915m RT (top of Float Collar).

WBM Data									
Mud Type:	KCL/Glycol	API FL:	6cm ³ /30m	KCl:	8%	Solids:	4	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H ₂ O:	96%	PV:	0.014Pa/s
Time:	14:30	HTHP-FL:		MBT:	6	Oil:		YP:	0.144MPa
Weight:	1.13sg	HTHP-Cake:		PM:	0.2	Sand:	0.1	Gels 10s:	0.038
Temp:	21.0C°			PF:	0.12	pH:	9	Gels 10m:	0.057
						PHPA:	1ppb	Fann 003:	8
								Fann 006:	10
								Fann 100:	29
								Fann 200:	36
								Fann 300:	44
								Fann 600:	58
Comment Finished mixing 220bbls premix (Pit 1) w/ 8% KCl, 3% Glycol, 1ppb PHPA,1ppb Flowzan & 2ppb Pac. This brew will be weighted with Barite to increase active MW once drilling. Cont'd to centrifuge surface active mud to remove LGS. Retort on centrifuged mud = 7.5%. Offlined Centrifuge. Reweighed surface MW to 9.4ppg with Barite prior to RIH.Received Mud chemicals & 489bbls of Brine from Pacific Wrangler. Received Barite at time of report, waiting for bulk report (tomorrow). *** Test #1 centrifuge centrate. *** Test #2 rheology tested at ambient temp, 70oF. *** Test #3 rheology tested at API standards, 120oF.									

Bit # 5				Wear	I	O1	D	L	B	G	O2	R
Size:	311mm	IADC#	M323	Nozzles		Drilled over last 24 hrs				Calculated over Bit Run		
Mfr:	Hughes Christensen	WOB(avg)		No.	Size	Progress				Cum. Progress		
Type:	PDC	RPM(avg)		6	16/32nd"	On Bottom Hrs				Cum. On Btm Hrs		
Serial No.:	702106	F.Rate				IADC Drill Hrs				Cum IADC Drill Hrs		
Bit Model	HC506ZX	SPP				Total Revs				Cum Total Revs		
Depth In	1947.0m	TFA	1.178			ROP(avg)				ROP(avg)		
Depth Out						N/A				0.00 m/hr		

BHA # 5									
Weight(Wet)	38.56mt	Length	289.4m	Torque(max)				D.C. (1) Ann Velocity	
Wt Below Jar(Wet)	24.95mt	String		Torque(Off.Btm)				D.C. (2) Ann Velocity	
		Pick-Up		Torque(On.Btm)				H.W.D.P. Ann Velocity	
		Slack-Off						D.P. Ann Velocity	

BHA Run Description		311 mm (12-1/4") Motor Assy.							
Equipment	Length	OD	ID	Serial #	Comment				
Bit	0.38m	311mm	83mm	702106	6 x 16 Nozzles				
9.625in Motor	9.68m	245mm	72mm	06259	A962M7848GT				
Float Sub	0.92m	210mm	76mm	WFD2316	Non- ported float.				
12.25in String Stabiliser	2.45m	311mm	73mm	55061107					
Saver Sub	0.38m	210mm	76mm	ASQ8008					
ARC-8	5.53m	207mm	76mm	2724	Res/GR = 15.9m from the bit.				
12.125 In-line Stabiliser	0.37m	210mm	83mm	SB03181					
Telescope HF	7.56m	210mm	73mm	FB46	Survey = 22.7m				
Saver Sub	0.47m	210mm	76mm	055060087C					
Sonic	7.76m	213mm	108mm	42730	Sonic = 32.88m				
Saver Sub	0.34m	222mm	108mm	ASQ8013					
Neutron Density	6.36m	305mm	89mm	42730	Calip = 38.6m Dens = 38.8m Porosity = 40.6m				
Saver Sub	2.51m	207mm	89mm	2986					
8in DC	75.47m	203mm	73mm						
8in Jar	9.59m	210mm	76mm	489070					
8in DC	18.91m	203mm	73mm						
X/O	1.09m	203mm	73mm	GVD12204					
HWDP	139.62m	127mm	78mm						

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	2	26	219.0	Santos	6
Gel	MT	0	0	0	0.0	DOGC	46
Cement	MT	0	0	0	42.0	ESS	8
HTB cement	MT	0	0	0	4.0	BHI	6
Fuel	M3	0	11	0	449.0	Rheochem	2
Potable Water	M3	32	22	0	363.0	Dowell	2
Drill Water	M3	0	48	0	776.0	TMT	3
Helifuel	Litres	0	0	0	0.0	Schlumberger Drilling & Measurements	4
KCl Brine	M3	0	0	0	0.0	MI Swaco	1
Mud	M3	0	0	0	0.0	Knowledge Systems	1
						Premium Casing Services	5
						Dril-Quip	2
						Serpent	1
						Total	87

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		01 Jun 2008	0 Days	Simulated a fire in the engine room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	33	01 Jun 2008	0 Days	Drill crew - 18 Deck crew - 13 Mech - 0 Welder - 0 Painter - 2
Lost Time Incident	1	30 May 2008	2 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	01 Jun 2008	0 Days	Discussed upcoming operations.
PTW Issued	12	01 Jun 2008	0 Days	4 x cold work permits 8 x hot work permits
Safety Meeting	3	01 Jun 2008	0 Days	Reviewed stop cards for the week and awarded Santos best stop card to Lorenzo Picen. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Pinch Points.
Santos Induction	1	01 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	57	01 Jun 2008	0 Days	44 - Safe 13 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	523.9m³	Losses	1.9m³	Equip.	Descr.	Mesh Size	Hours
Active	86.3m³	Downhole	1.9m³	Centrifuge 1	MI Swaco		7
Mixing		Surf+ Equip		Centrifuge 1	MI Swaco		3
Hole	209.1m³	Dumped		Centrifuge 2	MI Swaco		7
Slug	0.0m³			Centrifuge 2	MI Swaco		2
Slug	0.0m³	De-Sander		Shaker 1	MI Swaco	40/20/84/84/84/84	12
Reserve	148.8m³	De-Silter		Shaker 1	MI Swaco	40/20/84/84/84/84	
Kill		Centrifuge		Shaker 2	MI Swaco	40/20/84/84/84/84	12
Brine	79.7m³	Tripping		Shaker 2	MI Swaco	40/20/84/84/84/84	
				Shaker 3	MI Swaco	40/20/84/84/84/84	12
				Shaker 3	MI Swaco	40/20/84/84/84/84	
				Shaker 4	MI Swaco	40/20/84/84/84/84	12
				Shaker 4	MI Swaco	40/20/84/84/84/84	

Marine											
Weather check on 01 Jun 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	31km/h	0.0deg	1028.00bar	15.0C°	0.5m	0.0deg	3sec	1	1391.7	137.89	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1438.7	148.78	
0.8deg	0.5deg	0.70m	1.5m	205.0deg	10sec			3	1458.8	115.21	
Rig Dir.	Ris. Tension	VDL	Comments					4	1407.6	132.90	
45.0deg	218.18mt	1043.72mt	Guide Line Tension: 24 kips.					5	1393.5	152.86	
								6	1407.6	175.09	
								7	1410.6	167.83	
								8	1417.6	180.08	

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip			Transit to Ocean Patriot. ETA 11:30hrs 2 June	Item	Unit	Quantity
				Fuel	m3	613
				Potable Water	m3	398
				Drill Water	m3	620
				Cement	mt	0
				HTB cement	mt	45
				Barite	mt	0
				Gel	mt	26
				KCl Brine	m3	63
				Mud	m3	0
Pacific Wrangler	10:00 31 May 08		On location Ocean Patriot.	Item	Unit	Quantity
				Fuel	m3	551
				Potable Water	m3	225
				Drill Water	m3	493
				Cement	mt	38
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	80
				KCl Brine	m3	142
				Mud	m3	0

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
N/A			No flights today	
BWJ	10:15	Jarver 1		4
BWJ	10:26	Wynyard		0

From : Chris Roots / Nathan Peri OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	2310.0m	Current Hole Size	311mm
Field	Jarver	TVD	2310.0m	Casing OD	340mm
Drill Contractor	DOGC	Progress	363.0m	Shoe MD	1942.0m
Rig	Ocean Patriot	Days from spud	17.77	Shoe TVD	1942.0m
Water Depth (LAT)	576.2m	Days on well	20.33	F.I.T. / L.O.T.	/ 1.55sg
RT-SL(LAT)	21.5m	Planned TD	3022.0m		
RT-ML	597.7m	Current Op @ 0600	Continued to drill ahead from 2459m RT.		
Rig Heading	45.0deg	Planned Op	Continue to drill ahead to total depth.		

Summary of Period 0000 to 2400 Hrs

Pressure tested the casing against the shear rams to 24 MPa (3500psi).
Continued TIH to bottom, tagged the TOC @ 1,913m RT.
Drilled out the shoe track and 3m of new formation.
Circulated bottoms up and conducted a LOT to EMW 12.9ppg.
Drilled ahead 311mm (12-1/4") hole to 2,310m RT (363m)

Operations For Period 0000 Hrs to 2400 Hrs on 02 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
IC	P	PT	0000	0100	1.00	1947.0m	Lined up cement unit to the choke line and flushed through 1.5 m³ (10 bbls) of mud. Closed the Shear rams and conducted a pressure test of the 340mm (13 3/8") casing to 24 MPa (3500psi) with 1.3 m³ (8.4bbls) of 1.12 sg (9.4ppg) mud.
IC	P	TI	0100	0400	3.00	1947.0m	Opened shear rams and continued TIH filling pipe every 20 stands.
IC	P	RW	0400	0430	0.50	1947.0m	Washed down with 185 L/min (700gpm) from 1902m to tag the cement @ 1913m RT.
IC	P	DFS	0430	0600	1.50	1947.0m	Patterned in new 311mm (12-1/4") PDC bit with 1-2 t (2-5 klbs) WOB, 40 rpm, 185 L/min (700gpm) and 13.8 MPa (2000psi). Drilled out cement plugs from 1913m to 1915m RT (top of Float Collar).
PH	P	DFS	0600	0800	2.00	1950.0m	Continued to drill out the shoe track from 1915m to 1942m RT (shoe). Washed down and drilled 3m of from 1947m to 1950m.
PH	P	CS	0800	0930	1.50	1950.0m	Circulated bottoms up @ 3217 L/min (850gpm). Pulled inside the shoe.
PH	P	LOT	0930	1030	1.00	1950.0m	Closed MPR and conducted a LOT: 1.13 sg (9.4 ppg) mud, 8 MPa (1160 psi), 1942m TVDRT Shoe = 1.55 sg (12.9 ppg) EMW.
PH	P	DM	1030	2400	13.50	2310.0m	Drilled ahead 311mm (12-1/4") hole from 1950m to 2310m RT (360m). Reamed and surveyed connections. Parameters: WOB 5-9 t (10-20 klbs), 3407 L/min (900gpm), Surf RPM 40-50 (DH 150), SPP 25 MPa (3700psi), torq 7-27 kNm (5-20 kft.lbs). Last survey: 2278 m TVD/MD, Incl 0.35°, Azi 333°.

Operations For Period 0000 Hrs to 0600 Hrs on 03 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	DM	0000	0600	6.00	2459.0m	Drilled ahead 311mm (12-1/4") hole from 2310m to 2459m RT (149m). Reamed and surveyed connections. Parameters: WOB 5-9 t (10-20 klbs), 3407 L/min (900gpm), Surf RPM 40-50 (DH 150), SPP 25 MPa (3700psi), torq 7-27 kNm (5-20 kft.lbs). Last survey: 2421 m TVD/MD, Incl 0.36°, Azi 319°.

WBM Data									
Mud Type:	KCL/Glycol	API FL:	5cm ³ /30m	KCl:	8%	Solids:	8	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H ₂ O:	92%	PV:	0.019Pa/s
Time:	23:00	HTHP-FL:		MBT:	5	Oil:		YP:	0.153MPa
Weight:	1.25sg	HTHP-Cake:		PM:	0.2	Sand:	.75	Gels 10s:	0.048
Temp:	27.0C°			PF:	0.1	pH:	9.2	Gels 10m:	0.072
						PHPA:	1ppb	Fann 003:	8
								Fann 006:	11
								Fann 100:	31
								Fann 200:	42
								Fann 300:	51
								Fann 600:	70
Comment Pretreat active w/ Citric & SBicarb while drilling out cement. Maintained KCl, PHPA & SodSulp conc thru direct addns. Prepared a premix of 210bbbls, & mixed in treatment chems; 0.75ppb PHPA, 2ppb Pac & 1ppb Flowzan. From 1950m, active Mudwt was increased w/Barite. Prior to penetrating the Belfast FM at 2292m (+/100m), an even Mudwt of 10.4ppg was achieved from 2157m. Retort on mud @ = 12% solids (after weighing up w/ Barite). *** Test #2 rheology tested at ambient temp, 80oF. *** Test #3 rheology tested at API standards, 120oF. NEW SCREENS USED 8 x 165mesh.									

Bit # 5				Wear	I	O1	D	L	B	G	O2	R
Size:	311mm	IADC#	M323	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)	5.44mt	No.	Size	Progress			Cum. Progress			
Type:	PDC	RPM(avg)	185	6	16/32nd"	On Bottom Hrs			Cum. On Btm Hrs			
Serial No.:	702106	F.Rate	3161lpm			IADC Drill Hrs			Cum IADC Drill Hrs			
Bit Model	HC506ZX	SPP	20202kPa			Total Revs			Cum Total Revs			
Depth In	1947.0m	TFA	1.178			ROP(avg)			ROP(avg)			
Depth Out												

BHA # 5							
Weight(Wet)	38.56mt	Length	289.4m	Torque(max)	25840.0Nm	D.C. (1) Ann Velocity	72.48mpm
Wt Below Jar(Wet)	24.95mt	String	145.15mt	Torque(Off.Btm)	2720.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	142.88mt	Torque(On.Btm)	12240.0Nm	H.W.D.P. Ann Velocity	49.88mpm
		Slack-Off	142.88mt			D.P. Ann Velocity	49.88mpm

BHA Run Description		311 mm (12-1/4") Motor Assy.			
Equipment	Length	OD	ID	Serial #	Comment
Bit	0.38m	311mm	83mm	702106	6 x 16 Nozzles A962M7848GT Non- ported float.
9.625in Motor	9.68m	245mm	72mm	06259	
Float Sub	0.92m	210mm	76mm	WFD2316	
12.25in String Stabiliser	2.45m	311mm	73mm	55061107	Res/GR = 15.9m from the bit.
Saver Sub	0.38m	210mm	76mm	ASQ8008	
ARC-8	5.53m	207mm	76mm	2724	
12.125 In-line Stabiliser	0.37m	210mm	83mm	SB03181	Survey = 22.7m
Telescope HF	7.56m	210mm	73mm	FB46	
Saver Sub	0.47m	210mm	76mm	055060087C	
Sonic	7.76m	213mm	108mm	42730	Sonic = 32.88m
Saver Sub	0.34m	222mm	108mm	ASQ8013	Calip = 38.6m Dens = 38.8m Porosity = 40.6m
Neutron Density	6.36m	305mm	89mm	42730	
Saver Sub	2.51m	207mm	89mm	2986	
8in DC	75.47m	203mm	73mm	489070	
8in Jar	9.59m	210mm	76mm		
8in DC	18.91m	203mm	73mm		
X/O	1.09m	203mm	73mm	GVD12204	
HWDP	139.62m	127mm	78mm		

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
2076.60	0.3	339.2	2076.54	3.30	0.36	3.30	5.30	MWD
2105.86	0.3	331.2	2105.80	3.43	0.15	3.43	5.24	MWD
2163.31	0.3	338.9	2163.25	3.71	0.13	3.71	5.11	MWD
2192.25	0.3	344.8	2192.19	3.87	0.14	3.87	5.06	MWD
2219.96	0.4	332.7	2219.90	4.03	0.43	4.03	4.99	MWD
2278.23	0.4	333.6	2278.17	4.38	0.10	4.38	4.82	MWD

Bulk Stocks						Personnel On Board		
Name	Unit	In	Used	Adjust	Balance	Company	Pax	
Barite	MT	97	72	0	244.0	Santos	6	
Gel	MT	0	0	0	0.0	DOGC	48	
Cement	MT	29	0	0	71.0	ESS	8	
HTB cement	MT	0	0	0	4.0	BHI	6	
Fuel	M3	0	16	0	433.0	Rheochem	2	
Potable Water	M3	36	32	0	367.0	Dowell	2	
Drill Water	M3	0	72	0	704.0	TMT	3	
Helifuel	Litres	0	0	0	0.0	Schlumberger Drilling & Measurements	4	
KCl Brine	M3	0	0	0	0.0	MI Swaco	1	
Mud	M3	0	0	0	0.0	Knowledge Systems	1	
						Premium Casing Services	6	
						Dril-Quip	2	
						Serpent	1	
						Total	90	

Casing				
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing	
762mm	/	643.00/643.00	As per cement IDS report	
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.	
340mm	1.55 /	1942.00/1942.00	As per cement IDS report	

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill	28	01 Jun 2008	1 Day	Simulated a fire in the engine room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA		02 Jun 2008	0 Days	Drill crew - 11 Deck crew - 12 Mech - 1 Welder - 3 Painter - 1
Lost Time Incident	1	30 May 2008	3 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	02 Jun 2008	0 Days	Discussed upcoming operations.
PTW Issued	12	02 Jun 2008	0 Days	4 x cold work permits 8 x hot work permits
Safety Meeting	3	01 Jun 2008	1 Day	Reviewed stop cards for the week and awarded Santos best stop card to Lorenzo Picen. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Pinch Points.
Santos Induction	1	02 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	41	02 Jun 2008	0 Days	25 - Safe 16 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	584.4m³	Losses	35.3m³	Equip.	Descr.	Mesh Size	Hours
Active	76.2m³	Downhole	33.4m³	Centrifuge 1	MI Swaco		3
Mixing		Surf+ Equip		Centrifuge 1	MI Swaco		4
Hole	237.5m³	Dumped		Centrifuge 2	MI Swaco		2
Slug	0.0m³	De-Sander	1.9m³	Centrifuge 2	MI Swaco		
Reserve	209.5m³	De-Silter		Shaker 1	MI Swaco	40/20/84/84/84/84	
Kill		Centrifuge		Shaker 1	MI Swaco	40/20 165/165/84/84	24
Brine	61.2m³	Tripping		Shaker 2	MI Swaco	40/20/84/84/84/84	
				Shaker 2	MI Swaco	40/20 165/165/84/84	24
				Shaker 3	MI Swaco	40/20/84/84/84/84	
				Shaker 3	MI Swaco	40/20 165/165/84/84	24
				Shaker 4	MI Swaco	40/20/84/84/84/84	
				Shaker 4	MI Swaco	40/20 165/165/84/84	24

Marine											
Weather check on 02 Jun 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	30km/h	300.0deg	1020.00bar	10.0C°	0.0m	0.0deg	3sec	1	1391.7	146.96	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1436.5	166.92	
0.8deg	0.5deg	0.70m	0.5m	320.0deg	10sec			3	1435.6	128.82	
Rig Dir.	Ris. Tension	VDL	Comments					4	1390.5	138.80	
45.0deg	218.18mt	1084.54mt	Guide Line Tension: 24 kips.					5	1395.7	151.95	
								6	1412.7	172.82	
								7	1453.6	184.16	
								8	1436.5	180.98	

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	11:30 3rd June		On location Ocean Patriot. Running standby.	Item	Unit	Quantity
				Fuel	m3	597
				Potable Water	m3	390
				Drill Water	m3	620
				Cement	mt	0
				HTB cement	mt	45
				Barite	mt	0
				Gel	mt	26
				KCl Brine	m3	63
				Mud	m3	0
Pacific Wrangler		12:30 3rd June	Transit to Portland ETA 0730hrs 3rd June.	Item	Unit	Quantity
				Fuel	m3	536
				Potable Water	m3	220
				Drill Water	m3	493
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	80
				KCl Brine	m3	142
				Mud	m3	0

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BWJ	14.45	Wynyard		1
BWJ	14:36	Jarver 1		0

From : Chris Roots / Nathan Peri OIM : Dennis Gore					
Well Data					
Country	Australia	Measured Depth	3010.0m	Current Hole Size	311mm
Field	Jarver	TVD	3010.0m	Casing OD	340mm
Drill Contractor	DOGC	Progress	700.0m	Shoe MD	1942.0m
Rig	Ocean Patriot	Days from spud	18.77	Shoe TVD	1942.0m
Water Depth (LAT)	576.2m	Days on well	21.33	F.I.T. / L.O.T.	/ 1.55sg
RT-SL(LAT)	21.5m	Planned TD	3022.0m		
RT-ML	597.7m	Current Op @ 0600	Continued to drill ahead from 3056 mRT.		
Rig Heading	45.0deg	Planned Op	Circulate bottoms up. POOH, lay out FEWD tools. Run wireline logging programme.		

Summary of Period 0000 to 2400 Hrs

Drilled 311mm (12-1/4") hole from 2310m to 3010m RT (700m).

Operations For Period 0000 Hrs to 2400 Hrs on 03 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	DM	0000	0600	6.00	2459.0m	Drilled ahead 311mm (12-1/4") hole from 2310m to 2459m RT (149m). Reamed and surveyed connections. Parameters: WOB 5-9 t (10-20 klbs), 3407 L/min (900gpm), Surf RPM 40-50 (DH 150), SPP 25 MPa (3700psi), torq 7-27 kNm (5-20 kft.lbs). Last survey: 2421 m TVD/MD, Incl 0.36°, Azi 319°.
PH	P	DM	0600	1200	6.00	2677.0m	Drilled ahead 311mm (12-1/4") hole from 2459m to 2677m RT (218m). Reamed and surveyed connections. Parameters: WOB 5-9 t (10-20 klbs), 3407 L/min (850-950gpm), Surf RPM 40-150 (DH 150-250), SPP 28 MPa (3700-4150psi), torq 7-35 kNm (5-26 kft.lbs). Last survey: 2594m TVD/MD, Incl 0.37°, Azi 326°
PH	P	DM	1200	2400	12.00	3010.0m	Drilled ahead 311mm (12-1/4") hole from 2677m to 3010m RT (333m). Reamed and surveyed connections. Parameters: WOB 5-11 t (10-25 klbs), 3407 L/min (850-950gpm), Surf RPM 40-150 (DH 150-250), SPP 28 MPa (3700-4150psi), torq 7-35 kNm (5-26 kft.lbs). Last survey: 2594m TVD/MD, Incl 0.37°, Azi 326°

Operations For Period 0000 Hrs to 0600 Hrs on 04 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	DM	0000	0600	6.00	3056.0m	Drilled ahead 311mm (12-1/4") hole from 3010m to 3056m RT (46m), Total Depth. Reamed and surveyed connections. Parameters: WOB 5-11 t (10-25 klbs), 3407 L/min (850-950gpm), Surf RPM 40-150 (DH 150-250), SPP 28 MPa (3700-4150psi), torq 7-35 kNm (5-26 kft.lbs). Last survey: 2940m TVD/MD, Incl 0.37°, Azi 309°

WBM Data

Mud Type:	KCL/Glycol	API FL:	5cm³/30m	KCl:	8%	Solids:	7.9	Viscosity:	0sec/L
Sample-From:	Retort	Filter-Cake:	1mm	Hard/Ca:	400	H2O:	92%	PV:	0.014Pa/s
Time:	23:00	HTHP-FL:		MBT:	3.5	Oil:		YP:	0.134MPa
Weight:	1.25sg	HTHP-Cake:		PM:	0.2	Sand:	1.5	Gels 10s:	0.048
Temp:	27.0C°			PF:	0.1	pH:	9	Gels 10m:	0.067
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	11
								Fann 100:	27
								Fann 200:	36
								Fann 300:	42
								Fann 600:	56

Comment
Maintained vol. w/ new wt'd premixes from Pit 5 & 1. Monitored cuttings; good encap & inhib.
Adjusted additions of KCl & PHPA as req'd. PHPA was ceased, and allowed to naturally deplete, from +/-150m before Lower Belfast FM +/-2902m). Barite was dusted as req'd, as Mudwt remained steady at 10.3 10.5ppg. Received 335bbbls Brine from Far Grip. Dead volume remaining on boat 60bbbls.
*** Made cost adjustment with correction to Brine stock.
*** Test #2 rheology tested at ambient temp, 82oF.
*** Test #3 rheology tested at API standards, 120oF.
NEW SCREENS USED 4 x 165mesh

Bit # 5				Wear	I	O1	D	L	B	G	O2	R
Size:	311mm	IADC#	M323	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)	6.35mt	No.	Size	Progress		700.0m	Cum. Progress		1063.0m	
Type:	PDC	RPM(avg)	115	6	16/32nd"	On Bottom Hrs		15.10h	Cum. On Btm Hrs		26.50h	
Serial No.:	702106	F.Rate	3354lpm			IADC Drill Hrs		24.00h	Cum IADC Drill Hrs		37.50h	
Bit Model	HC506ZX	SPP	25511kPa			Total Revs		312600	Cum Total Revs		433600	
Depth In	1947.0m	TFA	1.178			ROP(avg)		46.36 m/hr	ROP(avg)		40.11 m/hr	
Depth Out												

BHA # 5											
Weight(Wet)	38.56mt	Length	289.4m	Torque(max)	34000.0Nm	D.C. (1) Ann Velocity	76.91mpm				
Wt Below Jar(Wet)	24.95mt	String	165.56mt	Torque(Off.Btm)	2720.0Nm	D.C. (2) Ann Velocity	0mpm				
		Pick-Up	161.03mt	Torque(On.Btm)	13600.0Nm	H.W.D.P. Ann Velocity	52.93mpm				
		Slack-Off	165.56mt			D.P. Ann Velocity	52.93mpm				

BHA Run Description 311 mm (12-1/4") Motor Assy.											
Equipment		Length	OD	ID	Serial #	Comment					
Bit		0.38m	311mm	83mm	702106	6 x 16 Nozzles					
9.625in Motor		9.68m	245mm	72mm	06259	A962M7848GT					
Float Sub		0.92m	210mm	76mm	WFD2316	Non- ported float.					
12.25in String Stabiliser		2.45m	311mm	73mm	55061107						
Saver Sub		0.38m	210mm	76mm	ASQ8008						
ARC-8		5.53m	207mm	76mm	2724	Res/GR = 15.9m from the bit.					
12.125 In-line Stabiliser		0.37m	308mm	83mm	SB03181						
Telescope HF		7.56m	210mm	73mm	FB46	Survey = 22.7m					
Saver Sub		0.47m	210mm	76mm	055060087C						
Sonic		7.76m	213mm	108mm	42730	Sonic = 32.88m					
Saver Sub		0.34m	222mm	108mm	ASQ8013						
Neutron Density		6.36m	305mm	89mm	42730	Calip = 38.6m Dens = 38.8m Porosity = 40.6m					
Saver Sub		2.51m	207mm	89mm	2986						
8in DC		75.47m	203mm	73mm							
8in Jar		9.59m	210mm	76mm	489070						
8in DC		18.91m	203mm	73mm							
X/O		1.09m	203mm	73mm	GVD12204						
HWDP		139.62m	127mm	78mm							

Survey								
MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
2421.85	0.4	319.8	2421.79	5.16	0.11	5.16	4.18	MWD
2508.06	0.4	323.3	2508.00	5.62	0.09	5.62	3.81	MWD
2594.16	0.4	325.9	2594.09	6.11	0.07	6.11	3.47	MWD
2768.83	0.4	309.1	2768.76	7.00	0.08	7.00	2.63	MWD
2827.34	0.4	280.2	2827.27	7.18	0.36	7.18	2.27	MWD
2940.58	0.4	309.9	2940.51	7.48	0.17	7.48	1.63	MWD

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	244.0	Santos	6
Gel	MT	0	0	0	0.0	DOGC	47
Cement	MT	0	0	0	71.0	ESS	8
HTB cement	MT	0	0	0	4.0	BHI	6
Fuel	M3	0	27.1	0	405.9	Rheochem	2
Potable Water	M3	0	0	0	367.0	Dowell	2
Drill Water	M3	0	0	0	704.0	TMT	3
Helifuel	Litres	0	0	0	0.0	Schlumberger Drilling & Measurements	4
KCl Brine	M3	0	0	0	0.0	MI Swaco	1
Mud	M3	0	0	0	0.0	Knowledge Systems	1
						Premium Casing Services	6
						Dril-Quip	2
						Serpent	1
						Total	89

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		01 Jun 2008	2 Days	Simulated a fire in the engine room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	25	03 Jun 2008	0 Days	Drill crew - 5 Deck crew - 12 Mech - 5 Welder - 3 Painter - 0
Lost Time Incident	1	30 May 2008	4 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	03 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	9	03 Jun 2008	0 Days	5 x cold work permits 4 x hot work permits
Safety Meeting	3	01 Jun 2008	2 Days	Reviewed stop cards for the week and awarded Santos best stop card to Lorenzo Picen. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Pinch Points.
Santos Induction	14	03 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	80	03 Jun 2008	0 Days	47 - Safe 33 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Carissa Thompson / Christian DeMarco			
Available	531.3m³	Losses	96.5m³	Equip.	Descr.	Mesh Size	Hours
Active	87.4m³	Downhole	93.3m³	Centrifuge 1	MI Swaco		4
Mixing		Surf+ Equip		Centrifuge 1	MI Swaco		13
Hole	288.4m³	Dumped		Centrifuge 2	MI Swaco		1
Slug	0.0m³	De-Sander	3.2m³	Shaker 1	MI Swaco	40/20 165/165/84/84	24
Reserve	101.4m³	De-Silter		Shaker 1	MI Swaco	40/20	24
Kill		Centrifuge		Shaker 2	MI Swaco	200/200/165/165	24
Brine	54.1m³	Tripping		Shaker 2	MI Swaco	40/20 165/165/84/84	24
						200/200/165/165	24
				Shaker 3	MI Swaco	40/20 165/165/84/84	24
				Shaker 3	MI Swaco	40/20	24
						165/165/165/165	
				Shaker 4	MI Swaco	40/20 165/165/84/84	24
				Shaker 4	MI Swaco	40/20	24
						165/165/165/165	

Marine											
Weather check on 03 Jun 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	28km/h	60.0deg	1024.00bar	10.0C°	1.0m	60.0deg	3sec	1	1391.7	117.03	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1436.5	136.08	
0.8deg	0.5deg	0.70m	0.5m	50.0deg	10sec			3	1435.6	175.09	
								4	1390.5	195.95	
Rig Dir.	Ris. Tension	VDL	Comments					5	1395.7	180.98	
45.0deg	218.18mt	1057.33mt	Guide Line Tension: 24 kips.					6	1412.7	175.99	
								7	1453.6	154.22	
								8	1436.5	151.05	

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	11:30 3rd June		On location Ocean Patriot. Running standby.	Item	Unit	Quantity
				Fuel	m3	588
				Potable Water	m3	384
				Drill Water	m3	620
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	26
				KCl Brine	m3	8
				Mud	m3	0
Pacific Wrangler			Transit to Ocean Patriot. ETA 1330hrs 4th June	Item	Unit	Quantity
				Fuel	m3	523
				Potable Water	m3	215
				Drill Water	m3	493
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	80
				KCl Brine	m3	
				Mud	m3	0

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BWJ	10:17	Wynyard		12
BWJ	10:30	Jarver 1		13

From : Chris Roots / Nathan Peri OIM : Dennis Gore						
Well Data						
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	52.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	19.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	22.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Pull logging tools back inside the shoe @ 1947m.			
RT-ML	597.7m	Planned Op	Standby for wireline crew. Continue wireline logging programme. TIH drillpipe, set P&A Plugs.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Drilled to Total Depth of 3062m MD/TVD.
 POOH, laid out FEWD tools.
 Rigged up wireline.

Operations For Period 0000 Hrs to 2400 Hrs on 04 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	DM	0000	0600	6.00	3056.0m	Drilled ahead 311mm (12-1/4") hole from 3010m to 3056m RT (46m). Reamed and surveyed connections. Parameters: WOB 5-11 t (10-25 klbs), 3407 L/min (850-950gpm), Surf RPM 40-150 (DH 150-250), SPP 28 MPa (3700-4150psi), torq 7-35 kNm (5-26 kft.lbs). Last survey: 2940m TVD/MD, Incl 0..37°, Azi 309°
PH	P	DM	0600	0730	1.50	3062.0m	Drilled to Total Depth 3062m MD/TVD (7m).
PH	P	CHC	0730	1030	3.00	3062.0m	Circulated until shakers clean @ 3407 L/min (900gpm), 28 MPa (4100psi).. Boosted the Riser once the bottom sample was obtained (no extra cuttings observed).
PH	P	TO	1030	1130	1.00	3062.0m	Flow checked well. POOH from 3160m to 2919m RT (241m). Good hole conditions, no overpulls required.
PH	P	FC	1130	1200	0.50	3062.0m	Flow checked well @ 2919m. Pumped 4.7 m³ (30 bbl), 1.48 sg (12.4 ppg) Slug.
PH	P	TO	1200	1430	2.50	3062.0m	Continued POOH from 2,919m to 1930 mRT (Shoe). Good hole conditions, no overpulls required. Flow checked.
PH	P	TO	1430	1730	3.00	3062.0m	Continued POOH from 1930m to 289 mRT (BHA). Flow checked the BHA prior to pulling through the BOPs.
PH	P	HBHA	1730	1900	1.50	3062.0m	Racked back HWDP and 2 x 8" DC's.
PH	P	HBHA	1900	2330	4.50	3062.0m	Held JSA, removed radio active source from ADN. Laid out the FEWD tools / mud motor and Bit. Static hole losses: 2-3 bbls/hr.
PH	P	CRF	2330	2400	0.50	3062.0m	Cleared the rig floor. Prepared for wireline rig up.

Operations For Period 0000 Hrs to 0600 Hrs on 05 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	LOG	0000	0030	0.50	3062.0m	Continued rigging up wireline. Static losses: 318-477 L/hr (2-3 bbls/hr).
PH	TP (VE)	LOG	0030	0100	0.50	3062.0m	Wireline Unit would not start. Faulty battery, jump started the unit.
PH	P	LOG	0100	0230	1.50	3062.0m	Picked up logging tools for run #1: Check shot survey VSP/GR.
PH	P	LOG	0230	0530	3.00	3062.0m	Ran logging tools #1 to depth 2600m.
PH	TP (PR)	LOG	0530	0600	0.50	3062.0m	POOH logging tools to casing shoe 1947m.

General Comments

Comments	Rig Requirements	Lessons Learnt
	New starboard crane engine arrived onboard. Installing engine over next 24hrs.	

WBM Data									
Mud Type:	KCL/Glycol	API FL:	5cm ³ /30m	KCl:	8%	Solids:	8	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H ₂ O:	92%	PV:	0.016Pa/s
Time:	22:00	HTHP-FL:		MBT:	3.5	Oil:		YP:	0.134MPa
Weight:	1.25sg	HTHP-Cake:		PM:	0.2	Sand:	.5	Gels 10s:	0.043
Temp:				PF:	0.1	pH:	9.2	Gels 10m:	0.062
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	10
								Fann 100:	27
								Fann 200:	36
								Fann 300:	44
								Fann 600:	60
Comment Maintained volume & mud specs via transfers of reserve premixes from Pits 2 & 5. Treated mud w/ SodSulp & Soda Ash for O ₂ scav & hardness levels respectively. Pretreated mud left downhole prior to POOH for logging. *** Test#2 Mud sample used for Wireline logging.									

Bit # 5				Wear	I	O1	D	L	B	G	O2	R	
					1	1	WT	S	X	I	NO	TD	
Size:	311mm	IADC#	M323	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run				
Mfr:	Hughes Christensen	WOB(avg)	6.35mt	No.	Size	Progress			0.0m		Cum. Progress		1115.0m
Type:	PDC	RPM(avg)	115	6	16/32nd"	On Bottom Hrs			0.00h		Cum. On Btm Hrs		29.40h
Serial No.:	702106	F.Rate	3354lpm			IADC Drill Hrs			0.00h		Cum IADC Drill Hrs		45.00h
Bit Model	HC506ZX	SPP	25511kPa			Total Revs			312600		Cum Total Revs		746412
Depth In	1947.0m	TFA	1.178			ROP(avg)			N/A		ROP(avg)		37.93 m/hr
Depth Out	3062.0m												
Bitwear Comment		The bit was in good condition however there is a small hole on the back of one blade (10 x 6mm oval, 5mm deep).											

Bit # 5				Wear	I	O1	D	L	B	G	O2	R
					1	1	WT	S	X	I	NO	TD
Size:	311mm	IADC#	M323	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	Hughes Christensen	WOB(avg)	6.35mt	No. Size		Progress 52.0m			Cum. Progress 1115.0m			
Type:	PDC	RPM(avg)	115	6	16/32nd"	On Bottom Hrs 2.90h			Cum. On Btm Hrs 29.40h			
Serial No.:	702106	F.Rate	3354lpm			IADC Drill Hrs 7.50h			Cum IADC Drill Hrs 45.00h			
Bit Model	HC506ZX	SPP	25511kPa			Total Revs 212			Cum Total Revs 746412			
Depth In	1947.0m	TFA	1.178			ROP(avg) 17.93 m/hr			ROP(avg) 37.93 m/hr			
Depth Out	3062.0m											
Daily Comment		Total Krevs should = 333.5										
Bitwear Comment		The bit was in good condition however there is a small hole on the back of one blade (10 x 6mm oval, 5mm deep).										

BHA # 5							
Weight(Wet)	38.56mt	Length	289.4m	Torque(max)	34000.0Nm	D.C. (1) Ann Velocity	76.91mpm
Wt Below Jar(Wet)	24.95mt	String	165.56mt	Torque(Off.Btm)	2720.0Nm	D.C. (2) Ann Velocity	0mpm
		Pick-Up	161.03mt	Torque(On.Btm)	13600.0Nm	H.W.D.P. Ann Velocity	52.93mpm
		Slack-Off	165.56mt			D.P. Ann Velocity	52.93mpm
BHA Run Description		311 mm (12-1/4") Motor Assy.					
BHA Run Comment		Good drilling rates obtained, no FEWD problems while drilling. No hole problems on POOH.					

Equipment	Length	OD	ID	Serial #	Comment
Bit	0.38m	311mm	83mm	702106	6 x 16 Nozzles
9.625in Motor	9.68m	245mm	72mm	06259	A962M7848GT
Float Sub	0.92m	210mm	76mm	WFD2316	Non- ported float.
12.25in String Stabiliser	2.45m	311mm	73mm	55061107	
Saver Sub	0.38m	210mm	76mm	ASQ8008	
ARC-8	5.53m	207mm	76mm	2724	Res/GR = 15.9m from the bit.
12.125 In-line Stabiliser	0.37m	308mm	83mm	SB03181	
Telescope HF	7.56m	210mm	73mm	FB46	Survey = 22.7m
Saver Sub	0.47m	210mm	76mm	055060087C	
Sonic	7.76m	213mm	108mm	42730	Sonic = 32.88m
Saver Sub	0.34m	222mm	108mm	ASQ8013	
Neutron Density	6.36m	305mm	89mm	42730	Calip = 38.6m Dens = 38.8m Porosity = 40.6m
Saver Sub	2.51m	207mm	89mm	2986	
8in DC	75.47m	203mm	73mm		
8in Jar	9.59m	210mm	76mm	489070	
8in DC	18.91m	203mm	73mm		
X/O	1.09m	203mm	73mm	GVD12204	
HWDP	139.62m	127mm	78mm		

Survey

MD (m)	Incl Deg (deg)	Corr. Az (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
3061.80	0.4	338.7	0.00 3061.72	0.00 8.14	0.00 0.17	0.00 8.14	0.00 1.17	MWD

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	27	0	217.0	Santos	5
Gel	MT	0	0	0	0.0	DOGC	48
Cement	MT	0	0	0	71.0	ESS	8
HTB cement	MT	45	0	0	49.0	BHI	6
Fuel	M3	0	22	0	383.9	Rheochem	2
Potable Water	M3	35	27	0	375.0	Dowell	2
Drill Water	M3	0	30	0	674.0	TMT	3
Helifuel	Litres	0	0	0	0.0	Schlumberger Drilling & Measurements	4
KCl Brine	M3	0	0	0	0.0	MI Swaco	1
Mud	M3	0	0	0	0.0	Knowledge Systems	1
						Apache	2
						Dril-Quip	2
						Serpent	1
						Schlumberger Wireline	7
						Total	92

Casing

OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		01 Jun 2008	3 Days	Simulated a fire in the engine room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	29	04 Jun 2008	0 Days	Drill crew - 9 Deck crew - 12 Mech - 0 Welder - 5 Painter - 0 Subsea - 3
Lost Time Incident	1	30 May 2008	5 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	04 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	15	04 Jun 2008	0 Days	7 x cold work permits 8 x hot work permits
Safety Meeting	3	01 Jun 2008	3 Days	Reviewed stop cards for the week and awarded Santos best stop card to Lorenzo Picen. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Pinch Points.
Santos Induction	8	04 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	79	04 Jun 2008	0 Days	47 - Safe 33 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Christian DeMarco			
Available	502.1m³	Losses	26.6m³	Equip.	Descr.	Mesh Size	Hours
Active	58.0m³	Downhole		Centrifuge 1	MI Swaco		8
Mixing		Surf+ Equip	22.9m³	Centrifuge 2	MI Swaco		
Hole	308.3m³	Dumped		Shaker 1	MI Swaco	40/20 165/165/84/84	11
Slug	0.0m³	De-Sander		Shaker 2	MI Swaco	40/20 165/165/84/84	11
Reserve	81.7m³	De-Silter		Shaker 3	MI Swaco	40/20 165/165/84/84	11
Kill		Centrifuge	3.7m³	Shaker 4	MI Swaco	40/20 165/165/84/84	11
Brine	54.1m³	Tripping					

Marine										
Weather check on 04 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	19km/h	90.0deg	1031.00bar	16.0C°	0.0m	90.0deg	3sec	1	1408.8	122.92
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1444.8	137.89
0.5deg	0.3deg	0.30m	2.0m	225.0deg	10sec			3	1461.5	150.14
								4	1407.6	156.94
Rig Dir.	Ris. Tension	VDL	Comments					5	1386.5	174.18
45.0deg	218.18mt	1052.79mt	Guide Line Tension: 24 kips.					6	1417.6	175.99
								7	1424.6	166.92
								8	1427.7	175.09

Boats		Arrived (date/time)		Departed (date/time)		Status		Bulks		
Far Grip	11:30 3rd June				On location Ocean Patriot. Running standby.	Item		Unit	Quantity	
						Fuel	m3	588		
						Potable Water	m3	384		
						Drill Water	m3	620		
						Cement	mt	0		
						HTB cement	mt	0		
						Barite	mt	0		
						Gel	mt	26		
						KCl Brine	m3	8		
						Mud	m3	0		
Far Grip			13:00hrs 4/6/08		Transit to Portland ETA 10:00hrs 5th June	Item		Unit	Quantity	
						Fuel	m3	576		
						Potable Water	m3	378		
						Drill Water	m3	620		
						Cement	mt	0		
						HTB cement	mt	0		
						Barite	mt	0		
						Gel	mt	26		
						KCl Brine	m3	8		
						Mud	m3	0		
Pacific Wrangler					Transit to Ocean Patriot. ETA 1330hrs 4th June	Item		Unit	Quantity	
						Fuel	m3	523		
						Potable Water	m3	215		
						Drill Water	m3	493		
						Cement	mt	45		
						HTB cement	mt	0		
						Barite	mt	0		
						Gel	mt	80		
						KCl Brine	m3			
						Mud	m3	0		
Pacific Wrangler	12:30hrs 4/6/08				On location Ocean Patriot. Running standby.	Item		Unit	Quantity	
						Fuel	m3	506		
						Potable Water	m3	210		
						Drill Water	m3	493		
						Cement	mt	45		
						HTB cement	mt	0		
						Barite	mt	63		
						Gel	mt	80		
						KCl Brine	m3	142		
						Mud	m3	0		
Helicopter Movement										
Flight #		Time		Destination		Comment		Pax		
BWJ		13:33		Wynyard				14		
BWJ		13:55		Jarver 1				12		

From : Chris Roots / Nathan Peri							
OIM : Dennis Gore							
Well Data							
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm		
Field	Jarver	TVD	3062.0m	Casing OD	340mm		
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m		
Rig	Ocean Patriot	Days from spud	20.77	Shoe TVD	1942.0m		
Water Depth (LAT)	576.2m	Days on well	23.33	F.I.T. / L.O.T.	/ 1.55sg		
RT-SL(LAT)	21.5m	Current Op @ 0600	Continue logging run #2.				
RT-ML	597.7m	Planned Op	POOH logging tools #2.				
Rig Heading	45.0deg	Rig down Wireline.					
							Run Cement Mule shoe on drill pipe and pump the P&A plugs.

Summary of Period 0000 to 2400 Hrs

Rigged up Wireline.
Ran Log #1 tools down to 2600m.
POOH to the casing shoe (1942m).
Standby for Wireline crews to rest.

Operations For Period 0000 Hrs to 2400 Hrs on 05 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	LOG	0000	0030	0.50	3062.0m	Continued rigging up wireline. Static losses: 318-477 L/hr (2-3 bbls/hr).
PH	TP (VE)	LOG	0030	0100	0.50	3062.0m	Wireline Unit would not start. Faulty battery, jump started the unit.
PH	P	LOG	0100	0230	1.50	3062.0m	Picked up logging tools for run #1: Check shot survey VSP/GR.
PH	P	LOG	0230	0530	3.00	3062.0m	Ran logging tools #1 to depth 2600m.
PH	TP (PR)	LOG	0530	0600	0.50	3062.0m	POOH logging tools to casing shoe 1947m.
PH	TP (PR)	LOG	0600	1100	5.00	3062.0m	Waited for wireline crews resting due to working hours.
PH	TP (LTF)	LOG	1100	1300	2.00	3062.0m	Troubleshoot wireline tools.
PH	P	LOG	1300	2400	11.00	3062.0m	Continued running logging tools #1: VSP Check shot survey to bottom. Logged from 2990m to surface. TOC in 20" x 13-3/8" annulus = ±962m

Operations For Period 0000 Hrs to 0600 Hrs on 06 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	LOG	0000	0030	0.50	3062.0m	Rigged down logging tool run #1: VSP check shot survey.
PH	P	LOG	0030	0230	2.00	3062.0m	Held JSA. Rig on radio silence. Rigged up logging tool run #2: CST
PH	P	LOG	0230	0600	3.50	3062.0m	Ran log tool #2 down to 3046m RT. Pulled up from 3,046m taking side wall samples.

General Comments

Comments	Rig Requirements	Lessons Learnt
	Starboard crane engine has been installed. Further work required.	

WBM Data

Mud Type:	KCL/Glycol	API FL:	5cm³/30m	KCl:	8%	Solids:	8	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H2O:	92%	PV:	0.017Pa/s
Time:	22:15	HTHP-FL:		MBT:	2.5	Oil:		YP:	0.148MPa
Weight:	1.25sg	HTHP-Cake:		PM:	0.1	Sand:	0.75	Gels 10s:	0.043
Temp:	24.0C°			PF:	0.05	pH:	9	Gels 10m:	0.057
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	10
								Fann 100:	27
								Fann 200:	37
								Fann 300:	48
								Fann 600:	65

Comment
Centrifuge online to trim mud weight in pit 1 from 10.7 to 10.3ppg.
Maintained volume in the active with pit 2.
28bbls mud discharged due to cleaning of the shakers, header box and possum belly.
Seepage downhole = 100bbls.
Performed stockcheck and adjusted inventory as necessary.

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	217.0	Santos	5
Gel	MT	0	0	0	0.0	DOGC	48
Cement	MT	0	0	0	71.0	ESS	8
HTB cement	MT	0	0	0	49.0	BHI	6
Fuel	M3	11	0	0	394.9	Rheochem	2
Potable Water	M3	33	23	0	385.0	Dowell	2
Drill Water	M3	36	0	0	710.0	TMT	3
Helifuel	Litres	0	0	0	0.0	Schlumberger Drilling & Measurements	4
KCl Brine	M3	0	0	0	0.0	MI Swaco	1
Mud	M3	0	0	0	0.0	Smith Tool Company	1
						Apache	3
						Dril-Quip	2
						Serpent	1
						Schlumberger Wireline	7
						Total	93

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		01 Jun 2008	4 Days	Simulated a fire in the engine room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	20	05 Jun 2008	0 Days	Drill crew - 5 Deck crew - 10 Mech - 2 Welder - 3
Lost Time Incident	1	30 May 2008	6 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	05 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	16	05 Jun 2008	0 Days	5 x cold work permits 11 x hot work permits
Safety Meeting	3	01 Jun 2008	4 Days	Reviewed stop cards for the week and awarded Santos best stop card to Lorenzo Picen. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Pinch Points.
Santos Induction	3	05 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	32	05 Jun 2008	0 Days	47 - Safe 33 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Christian DeMarco			
Available	481.4m³	Losses	20.7m³	Equip.	Descr.	Mesh Size	Hours
Active	55.6m³	Downhole	15.9m³	Centrifuge 1	MI Swaco		8
Mixing		Surf+ Equip	0.0m³	Centrifuge 1	MI Swaco		1
Hole	308.3m³	Dumped	4.5m³	Centrifuge 2	MI Swaco		
Slug	0.0m³	De-Sander		Centrifuge 2	MI Swaco		
Reserve	63.4m³	De-Silter		Shaker 1	MI Swaco	40/20 165/165/84/84	11
Kill		Centrifuge	0.3m³	Shaker 1	MI Swaco	40/20 165/165/84/84	
Brine	54.1m³	Tripping		Shaker 2	MI Swaco	40/20 165/165/84/84	11
				Shaker 2	MI Swaco	40/20 165/165/84/84	
				Shaker 3	MI Swaco	40/20 165/165/84/84	11
				Shaker 3	MI Swaco	40/20 165/165/84/84	
				Shaker 4	MI Swaco	40/20 165/165/84/84	11
				Shaker 4	MI Swaco	40/20 165/165/84/84	

Marine											
Weather check on 05 Jun 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	13km/h	135.0deg	1029.00bar	15.0C°	0.2m	135.0deg	3sec	1	1410.6	121.11	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1444.4	141.07	
0.5deg	0.3deg	0.30m	2.0m	225.0deg	11sec			3	1461.5	151.95	
Rig Dir.	Ris. Tension	VDL	Comments					4	1464.6	159.21	
45.0deg	218.18mt	1013.78mt	Guide Line Tension: 24 kips.					5	1390.5	175.99	
								6	1416.4	171.00	
								7	1421.6	157.85	
								8	1512.4	169.19	

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		13:00hrs 4/6/08	Portland.	Item	Unit	Quantity
				Fuel	m3	562
				Potable Water	m3	370
				Drill Water	m3	620
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
				Mud	m3	0
Pacific Wrangler	12:30hrs 4/6/08		On location Ocean Patriot. Running standby.	Item	Unit	Quantity
				Fuel	m3	495
				Potable Water	m3	205
				Drill Water	m3	493
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	63
				Gel	mt	80
				KCl Brine	m3	142
				Mud	m3	0

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
BWJ	10:10	Wynyard		15
BWJ	10:27	Jarver 1		13

From : Chris Roots / Nathan Peri
OIM : Rod Dotson

Well Data

Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	21.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	24.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Circulated Hi-Vis pill @ 2090m to 1990m.Preparing to spot #2 P&A plug across the shoe.			
RT-ML	597.7m	Planned Op	Spot P&A Plug #2 across the casing shoe @ 1942m. Lay out excess drill pipe. Tag cement plug #2. Displace the casing to inhibited sea water. Continue P&A programme.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Completed log #1: VSP check shot.
Ran log #2: CST
TIH Cement Mule Shoe on 127mm (5") drill pipe to 3,060m RT.
Mixed and pumped P&A plug #1A.
Circulated above the top of cement.

Operations For Period 0000 Hrs to 2400 Hrs on 06 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PH	P	LOG	0000	0030	0.50	3062.0m	Rigged down logging tool run #1: VSP check shot survey.
PH	P	LOG	0030	0230	2.00	3062.0m	Held JSA. Rig on radio silence. Rigged up logging tool run #2: CST
PH	P	LOG	0230	0600	3.50	3062.0m	Ran log tool #2 down to 3046m RT. Pulled up from 3,046m taking side wall samples.
PH	P	LOG	0600	1030	4.50	3062.0m	Continued logging run #2.
PH	P	LOG	1030	1100	0.50	3062.0m	Logging tools on surface.
PH	P	LOG	1100	1130	0.50	3062.0m	Rigged down wireline sheaves from the derrick, removed the compensator line.
PA	P	RUC	1130	1230	1.00	3062.0m	Rigged up 127mm (5") drill pipe running equipment. Installed PS30 slips.
PA	P	TI	1230	1430	2.00	3062.0m	Made up 127mm (5") cement mule shoe.
PA	P	TI	1430	1530	1.00	3062.0m	Repaired faulty hydraulic lines to the PS30 slips.
PA	P	TI	1530	2000	4.50	3062.0m	Continued TIH 127mm (5") cement mule shoe, to 3060m RT.
PA	P	CHC	2000	2100	1.00	3062.0m	Circulated bottoms up @ 3407 L/min (900gpm). Held cementing JSA during circulation.
PA	P	CMP	2100	2130	0.50	3062.0m	Made up Side Entry sub and cement hose. Pressure tested the cement hose to 10 MPa (1500psi).
PA	P	CMP	2130	2230	1.00	3062.0m	Mixed and pumped P&A Plug #1A from 3060m to 2910m RT (150m): Pump 2 m³ (15 bbls) drill water ahead. 12.5 m³ (79 bbls), 1.89 sg (15.8ppg) HTB with 10% excess on OH, 0.3 m³ (2 bbls) drill water behind. Circulated to balance with 25.7 m³ (162 bbls) of mud.
PA	P	CMP	2230	2330	1.00	3062.0m	POOH from 3060m to 2905m RT. Difficulty setting the PS30 slips.
PA	P	CHC	2330	2400	0.50	3062.0m	Circulated bottoms up above P&A Plug #1A. flow rates 3407 L/min (900gpm), 18 MPa (2600psi) Removed the PS30 slips.

Operations For Period 0000 Hrs to 0600 Hrs on 07 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	CS	0000	0100	1.00	3062.0m	Continued circulating bottoms up. Dumped 85bbls contaminated mud, no green cement at surface.
PA	P	CMP	0100	0200	1.00	3062.0m	Pumped P&A Plug #1B from 2905m to 2755m RT (150m): Pump 2 m³ (15 bbls) drill water ahead. Mixed and pumped cement slurry: 12.5 m³ (79 bbls), 1.89 sg (15.8ppg) HTB with 10% excess on OH, 0.3 m³ (2 bbls) drill water behind. Displaced to balance with 24 m³ (153 bbls) of mud.
PA	P	TO	0200	0300	1.00	3062.0m	POOH slowly from 2905m to 2710m RT.
PA	P	CS	0300	0400	1.00	3062.0m	Circulated bottoms up at 3407 L/min (900gpm), 17.5 MPa (2550psi). No contaminated mud.
PA	P	TO	0400	0530	1.50	3062.0m	Flow check while placing wiper plug in. Pumped slug. POOH from 2710m to 2090m RT.
PA	P	CMD	0530	0600	0.50	3062.0m	Spotted 7.6 m³ (48bbl), 100m Hi-Vis pill from 2,090m to 1990m.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
							Circulated to balance with mud.

General Comments

Comments	Rig Requirements	Lessons Learnt
Removed the PS30 slips when pulling through wet cement due to the slips not functioning properly and slowing down the POH.		PS30's require troubleshooting on the hydraulic system.

WBM Data

Mud Type:	KCL/Glycol	API FL:	5cm³/30m	KCl:	8%	Solids:	8	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H2O:	92%	PV:	0.017Pa/s
Time:	21:30	HTHP-FL:		MBT:	2.5	Oil:		YP:	0.163MPa
Weight:	1.25sg	HTHP-Cake:		PM:	0.1	Sand:	0.75	Gels 10s:	0.048
Temp:				PF:	0.05	pH:	9.2	Gels 10m:	0.067
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	11
								Fann 100:	30
								Fann 200:	41
								Fann 300:	51
								Fann 600:	68

Comment Received from Wrangler; Misc mud chemicals & 70MT Bentonite.
Transferred to Wrangler; 252 bbls Brine (now holding 1148bbls on boat per Control report).
Barite was transferred to Wrangler, but waiting confirmation on amount from Control.
Discharged 35 bbls of mud (dead volume) from Pit 1 and cleaned in preparation for the Inhibitive Seawater

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	0	217.0
Gel	MT	70	0	0	70.0
Cement	MT	0	0	0	71.0
HTB cement	MT	0	0	0	49.0
Fuel	M3	0	6.5	-21	367.4
Potable Water	M3	35	26	0	394.0
Drill Water	M3	0	18	0	692.0
Helifuel	Litres	0	0	0	0.0
KCl Brine	M3	0	0	0	0.0
Mud	M3	0	0	0	0.0

Personnel On Board

Company	Pax
Santos	5
DOGC	46
ESS	8
BHI	4
Rheochem	2
Dowell	2
TMT	6
Schlumberger Drilling & Measurements	4
MI Swaco	1
Smith Tool Company	1
Apache	1
Dril-Quip	2
Serpent	1
Schlumberger Wireline	7
Total	90

Casing

OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		01 Jun 2008	5 Days	Simulated a fire in the engine room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	28	06 Jun 2008	0 Days	Drill crew - 7 Deck crew - 10 Mech - 8 Welder - 3
Lost Time Incident	1	30 May 2008	7 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	06 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	17	06 Jun 2008	0 Days	7 x cold work permits 10 x hot work permits
Safety Meeting	3	01 Jun 2008	5 Days	Reviewed stop cards for the week and awarded Santos best stop card to Lorenzo Picen. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Pinch Points.
Safety Meeting	2	06 Jun 2008	0 Days	Held a safety meeting prior to the P&A cementing operation. Discussed the JSA, cement programme, rigging up procedure and POH through cement. Mentioned that this was a routine job and highlighted the fact that the casing job was the same yet we had a medivac case. Placed high emphasis on stopping the job and stepping back if things change during this operation. Both crews had this meeting.
Santos Induction	5	06 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	48	06 Jun 2008	0 Days	47 - Safe 33 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Christian DeMarco			
Available	426.5m³	Losses	15.0m³	Equip.	Descr.	Mesh Size	Hours
Active	64.1m³	Downhole	8.6m³	Centrifuge 1	MI Swaco		1
Mixing		Surf+ Equip	0.8m³	Centrifuge 1	MI Swaco		0
Hole	283.2m³	Dumped	5.6m³	Centrifuge 2	MI Swaco		0
Slug	0.0m³	De-Sander		Centrifuge 2	MI Swaco		
Reserve	79.2m³	De-Silter		Shaker 1	MI Swaco	40/20 165/165/84/84	
Kill		Centrifuge		Shaker 1	MI Swaco	40/20 165/165/84/84	4
Brine		Tripping		Shaker 2	MI Swaco	40/20 165/165/84/84	
				Shaker 2	MI Swaco	40/20 165/165/84/84	4
				Shaker 3	MI Swaco	40/20 165/165/84/84	
				Shaker 3	MI Swaco	40/20 165/165/84/84	4
				Shaker 4	MI Swaco	40/20 165/165/84/84	
				Shaker 4	MI Swaco	40/20 165/165/84/84	4

Marine										
Weather check on 06 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	37km/h	225.0deg	1025.00bar	14.0C°	1.5m	225.0deg	3sec	1	1410.6	121.11
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1444.4	141.07
0.7deg	0.5deg	1.50m	4.0m	225.0deg	11sec			3	1461.5	151.95
Rig Dir.	Ris. Tension	VDL		Comments				4	1464.6	159.21
45.0deg	218.18mt	1006.07mt		Guide Line Tension: 24 kips.				5	1390.5	175.99
								6	1416.4	171.00
								7	1421.6	157.85
								8	1512.4	169.19

Boats	Arrived (date/time)		Departed (date/time)	Status	Bulks			
Far Grip			13:00hrs 4/6/08	Portland.	Item		Unit	Quantity
					Fuel		m3	560
					Potable Water		m3	362
					Drill Water		m3	620
					Cement		mt	0
					HTB cement		mt	0
					Barite		mt	0
					Gel		mt	68
					KCl Brine		m3	8
					Mud		m3	0
Pacific Wrangler	12:30hrs 4/6/08			On location Ocean Patriot. Running standby.	Item		Unit	Quantity
					Fuel		m3	483
					Potable Water		m3	200
					Drill Water		m3	493
					Cement		mt	45
					HTB cement		mt	0
					Barite		mt	63
					Gel		mt	0
					KCl Brine		m3	182
					Mud		m3	0
Helicopter Movement								
Flight #		Time		Destination		Comment		Pax
BWJ	11:35	Wynyard						8
BWJ	11:52	Jarver 1						16

From : Chris Roots / Nathan Peri OIM : Rod Dotson						
Well Data						
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	22.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	25.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Lined up to reverse circulate drill pipe above P&A plug #3 (630m RT)			
RT-ML	597.7m	Planned Op	Continue reverse circulating drill pipe clean of cement. POOH.			
Rig Heading	45.0deg		Pull the 18-3/4" x 13-3/8" Wear Protector.			
			Cut and retrieve the 13-3/8" Hanger.			
			Pull the BOP & Riser.			

Summary of Period 0000 to 2400 Hrs

Set P&A plug 1B from 2905m to 2755m (150m)
 POOH to the Casing Shoe.
 Set P&A plug #2 across the shoe from 1996m to 1846m (150m).
 POOH laying out excess drill pipe and BHA.
 TIH and tagged TOC @ 1846m w/ 4.5 t (10 kibs).
 Displaced the casing volume to inhibited sea water.
 POOH laying down drill pipe to 800m.
 Pumped a 48 bbl Hi Vis pill from 800m to 700m.
 Pull pipe to 700m and set P&A plug #3 (70m).

Operations For Period 0000 Hrs to 2400 Hrs on 07 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	CS	0000	0100	1.00	3062.0m	Continued circulating bottoms up. Dumped 85bbls contaminated mud, no green cement at surface.
PA	P	CMP	0100	0200	1.00	3062.0m	Pumped P&A Plug #1B from 2905m to 2755m RT (150m): Pump 2 m³ (15 bbls) drill water ahead. Mixed and pumped cement slurry: 12.5 m³ (79 bbls), 1.89 sg (15.8ppg) HTB with 10% excess on OH, 0.3 m³ (2 bbls) drill water behind. Displaced to balance with 24 m³ (153 bbls) of mud.
PA	P	TO	0200	0300	1.00	3062.0m	POOH slowly from 2905m to 2710m RT.
PA	P	CS	0300	0400	1.00	3062.0m	Circulated bottoms up at 3407 L/min (900gpm), 17.5 MPa (2550psi). No contaminated mud.
PA	P	TO	0400	0530	1.50	3062.0m	Flow check while placing wiper plug in. Pumped slug. POOH from 2710m to 2090m RT.
PA	P	CMD	0530	0600	0.50	3062.0m	Spotted 7.6 m³ (48bbl), 100m Hi-Vis pill from 2,090m to 1990m. Circulated to balance with mud.
PA	P	CMD	0600	0630	0.50	3062.0m	POOH to depth 1996m RT.
PA	P	CMD	0630	0730	1.00	3062.0m	Pressure tested surface lines to 10 MPa (1500psi). Pumped P&A Plug #2 from 1996m to 1846m RT (150m): Pump 2 m³ (15 bbls) drill water ahead. Mixed and pumped cement slurry: 12.5 m³ (79 bbls), 1.89 sg (15.8ppg) 'G' with 10% excess on OH, 0.3 m³ (2 bbls) drill water behind. Displaced to balance with 15.7 m³ (99 bbls) of mud.
PA	P	CMD	0730	0800	0.50	3062.0m	POOH above cement to 1790m.
PA	P	CMD	0800	0900	1.00	3062.0m	Circulated bottoms up with mud @ 1407 L/min (900gpm).
PA	P	TO	0900	1200	3.00	3062.0m	Pumped 25bbl slug. POOH racking back the first 19 stds to 1242m.
PA	P	PLD	1200	1530	3.50	3062.0m	POOH sideways the remaining drill pipe (43 stds) from 1242m.
PA	P	HBHA	1530	1630	1.00	3062.0m	Laid out 1 x std of 9-1/2" DC's
PA	P	TI	1630	2100	4.50	3062.0m	TIH cement mule shoe to 1846m RT. Tagged TOC with 4.5 t (10 kibs) @ 1846m RT (96m of cement above the shoe)
PA	P	CMD	2100	2200	1.00	3062.0m	Displaced the casing to 209 m³ (1317 bbls) inhibited sea water.
PA	P	PLD	2200	2400	2.00	3062.0m	POOH laying out 127mm (5") drill pipe.

Operations For Period 0000 Hrs to 0600 Hrs on 08 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	PLD	0000	0330	3.50	3062.0m	Continued laying down 127mm (5") drill pipe from 1577m to to 800m.
PA	P	CMD	0330	0400	0.50	3062.0m	Spotted a 7.6 m³ (48 bbl), 100m Hi Vis pill from 800m to 700m. Circulated pill to balance with 6.0 m³ (38 bbls) sea water.
PA	P	PLD	0400	0430	0.50	3062.0m	Pulled from 800m, laying out pipe to 700m.
PA	P	CMP	0430	0530	1.00	3062.0m	Held JSA. Pressure tested surface lines to 7 MPa (1000psi). Pumped P&A Surface Plug #3 from 700m to 630m RT (70m):

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	PLD	0530	0600	0.50	3062.0m	Pump 1.5 m³ (10 bbls) drill water ahead. Mixed and pumped cement slurry: 5.4 m³ (34 bbls), 1.89 sg (15.8ppg) 'HTB'. Displaced to balance with 4.7 m³ (30 bbls) of sea water. Pulled 2 x stds and layed out a single to 629m RT. Made up the cement hose and lined up to reverse circulate the drill pipe.

General Comments

Comments	Rig Requirements	Lessons Learnt
	Reduced the Riser tension from 481 to 430 kips once the well was displaced to sea water.	

WBM Data

Mud Type:	KCL/Glycol	API FL:	5cm³/30m	KCl:	8%	Solids:	8	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	400	H2O:	92%	PV:	0.017Pa/s
Time:	21:30	HTHP-FL:		MBT:	2.5	Oil:		YP:	0.163MPa
Weight:	1.25sg	HTHP-Cake:		PM:	0.1	Sand:	0.75	Gels 10s:	0.048
Temp:				PF:	0.05	pH:	9.2	Gels 10m:	0.067
						PHPA:	Oppb	Fann 003:	9
								Fann 006:	11
								Fann 100:	30
								Fann 200:	41
								Fann 300:	51
								Fann 600:	68

Comment
Received from Wrangler; Misc mud chemicals & 70MT Bentonite.
Transferred to Wrangler; 252 bbls Brine (now holding 1148bbls on boat per Control report).
Barite was transferred to Wrangler, but waiting confirmation on amount from Control.
Discharged 35 bbls of mud (dead volume) from Pit 1 and cleaned in preparation for the Inhibitive Seawater

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	217.0	Santos	5
Gel	MT	0	0	0	70.0	DOGC	46
Cement	MT	0	0	0	71.0	ESS	8
HTB cement	MT	0	0	0	49.0	BHI	4
Fuel	M3	0	0	0	367.4	Rheochem	2
Potable Water	M3	0	0	0	394.0	Dowell	2
Drill Water	M3	0	0	0	692.0	TMT	6
Helifuel	Litres	0	0	0	0.0	MI Swaco	1
KCl Brine	M3	0	0	0	0.0	Smith Tool Company	1
Mud	M3	0	0	0	0.0	Apache	1
						Dril-Quip	2
						GO Offshore	1
						Fugro	2
						Total	81

Casing

OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVDD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		01 Jun 2008	6 Days	Simulated a fire in the engine room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	22	07 Jun 2008	0 Days	Drill crew - 8 Deck crew - 7 Mech - 3 Welder - 3 Subsea - 1
Lost Time Incident	1	30 May 2008	8 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	07 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	13	07 Jun 2008	0 Days	4 x cold work permits 9 x hot work permits
Safety Meeting	3	01 Jun 2008	6 Days	Reviewed stop cards for the week and awarded Santos best stop card to Lorenzo Picen. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Pinch Points.
Santos Induction	0	07 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	33	07 Jun 2008	0 Days	22 - Safe 11 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Christian DeMarco			
Available	426.5m³	Losses	15.0m³	Equip.	Descr.	Mesh Size	Hours
Active	64.1m³	Downhole	8.6m³	Centrifuge 1	MI Swaco		0
Mixing		Surf+ Equip	0.8m³	Centrifuge 1	MI Swaco		12
Hole	283.2m³	Dumped	5.6m³	Centrifuge 2	MI Swaco		0
Slug	0.0m³	De-Sander		Centrifuge 2	MI Swaco		12
Reserve	79.2m³	De-Silter		Shaker 1	MI Swaco	40/20 165/165/84/84	4
Kill		Centrifuge		Shaker 1	MI Swaco	40/20 165/165/84/84	8
Brine		Tripping		Shaker 2	MI Swaco	40/20 165/165/84/84	4
				Shaker 2	MI Swaco	40/20 165/165/84/84	8
				Shaker 3	MI Swaco	40/20 165/165/84/84	4
				Shaker 3	MI Swaco	40/20 165/165/84/84	8
				Shaker 4	MI Swaco	40/20 165/165/84/84	4
				Shaker 4	MI Swaco	40/20 165/165/84/84	8

Marine										
Weather check on 07 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	37km/h	225.0deg	1025.00bar	14.0C°	1.5m	225.0deg	3sec	1	1410.6	121.11
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1444.4	141.07
0.7deg	0.5deg	1.50m	4.0m	225.0deg	11sec			3	1461.5	151.95
								4	1464.6	159.21
Rig Dir.	Ris. Tension	VDL	Comments					5	1390.5	175.99
45.0deg	218.18mt	1006.07mt	Guide Line Tension: 24 kips.					6	1416.4	171.00
								7	1421.6	157.85
								8	1512.4	169.19

Boats	Arrived (date/time)		Departed (date/time)	Status	Bulks			
Far Grip			13:00hrs 4/6/08	Portland.	Item		Unit	Quantity
					Fuel		m3	560
					Potable Water		m3	362
					Drill Water		m3	620
					Cement		mt	0
					HTB cement		mt	0
					Barite		mt	0
					Gel		mt	68
					KCl Brine		m3	8
					Mud		m3	0
Pacific Wrangler	12:30hrs 4/6/08			On location Ocean Patriot. Running standby.	Item		Unit	Quantity
					Fuel		m3	483
					Potable Water		m3	200
					Drill Water		m3	493
					Cement		mt	45
					HTB cement		mt	0
					Barite		mt	63
					Gel		mt	0
					KCl Brine		m3	182
					Mud		m3	0
Helicopter Movement								
Flight #		Time		Destination		Comment		Pax
BWJ	11:35	Wynyard						8
BWJ	11:52	Jarver 1						16

From : Chris Roots / Nathan Peri
OIM : Rod Dotson
Well Data

Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	23.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	26.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Rigged up to pull the Riser/BOPs.			
RT-ML	597.7m	Planned Op	Pull the Riser and BOPs.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

POOH to 700m and set the surface cement plug.

Continued POOH.

Pulled the Wear Bushing

Ran the 13-3/8" casing cutter assembly, landed and cut the casing. Mis run pulling the casing to surface.

Reran grapple assembly to latch the casing hanger.

Operations For Period 0000 Hrs to 2400 Hrs on 08 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	PLD	0000	0330	3.50	3062.0m	Continued laying down 127mm (5") drill pipe from 1577m to to 800m.
PA	P	CMD	0330	0400	0.50	3062.0m	Spotted a 7.6 m³ (48 bbl), 100m Hi Vis pill from 800m to 700m. Circulated pill to balance with 6.0 m³ (38 bbls) sea water.
PA	P	PLD	0400	0430	0.50	3062.0m	Pulled from 800m, laying out pipe to 700m.
PA	P	CMP	0430	0530	1.00	3062.0m	Held JSA.Pressure tested surface lines to 7 MPa (1000psi). Pumped P&A Surface Plug #3 from 700m to 630m RT (70m): Pump 1.5 m³ (10 bbls) drill water ahead. Mixed and pumped cement slurry: 5.4 m³ (34 bbls), 1.89 sg (15.8ppg) 'HTB'. Displaced to balance with 4.7 m³ (30 bbls) of sea water.
PA	P	PLD	0530	0600	0.50	3062.0m	Pulled 2 x stds and layed out a single to 629m RT.
PA	P	CS	0600	0630	0.50	3062.0m	Made up the cement hose and lined up to reverse circulate the drill pipe.
PA	P	TO	0630	0730	1.00	3062.0m	Closed the lower annular and reverse circulated 1.5 x drill pipe volume - 9.5 m³ (60 bbl) of sea water.
PA	P	WH	0730	0830	1.00	3062.0m	POOH racking back stands.
PA	P	WH	0830	1030	2.00	3062.0m	Remove PS30 Slips & diverter packer.
PA	P	WH	1030	1130	1.00	3062.0m	Made up Jet sub, single and Wear Bushing pulling tool.
PA	P	WH	1130	1230	1.00	3062.0m	TIH, jet across the wellhead area 2524 L/min (660gpm), 2.7 MPa (400psi). Landed and latched the Wear Bushing, retrieved with 27 t (60 klbs) overpull.
PA	P	WH	1230	1530	3.00	3062.0m	POOH, lay down WBRT and Jet sub.
PA	P	CCT	1130	1230	1.00	3062.0m	Picked up 13-3/8" casing cutting BHA.
PA	P	CCT	1230	1530	3.00	3062.0m	TIH casing cutter to cut @ 613.5m RT. Tagged 16m high (pup joint connection) @ 598m RT. Unable to work tools down.
PA	TP (DTF)	CCT	1530	1630	1.00	3062.0m	POOH. Casing cutter knives were extruding slightly. Retied the knives with stronger wire and rope.
PA	TP (DTF)	CCT	1630	1900	2.50	3062.0m	TIH with 13-3/8" casing cutter assembly. Landed and latched at correct depth 613.5m RT.
PA	P	CCT	1900	2000	1.00	3062.0m	Overpulled 20 klbs to check the tool had latched. Cut casing with 90rpm, 530 L/min (140gpm) and 4.8 MPa (700psi). Good pressure drop observed when casing was cut (2 MPa, 300psi drop), drill pipe lifted 2m also. (no overpull required to pull the Seal Assy).
PA	P	FC	2000	2030	0.50	3062.0m	Flow checked the well.
PA	P	CCT	2030	2130	1.00	3062.0m	Pulled slowly through the BOPs. Assembly hung up on both annulars, 1/4 LH turn required to pull free. Continued POOH.
PA	P	CCT	2130	2300	1.50	3062.0m	On surface, no 13-3/8" casing attached. Inspected the grapples, no sign of slippage. Broke out the cutting assembly below the grapple. Laid out bottom assembly. Made up bottom sub onto the grapple assembly.
PA	TP (DTF)	CCT	2300	2400	1.00	3062.0m	TIH casing grapple assembly on drill pipe.

Operations For Period 0000 Hrs to 0600 Hrs on 09 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	TP	CCT	0000	0030	0.50	3062.0m	Landed the grapple assembly onto the 340mm (13-3/8") casing hanger.

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
	(DTF)						Picked up to check the grapple is latched, pulled up 9.0 t (20klbs). Placed 13 kNm (10k ft.lbs) of RH torque into the pipe. Continued pulling up, casing hanger sheared @ 22.6 t (50 klbs) overpull. Flow checked the well.
PA	P	CCT	0030	0230	2.00	3062.0m	Pulled the casing assembly to surface (no problems pulling the casing through the BOPs).
PA	P	CCT	0230	0330	1.00	3062.0m	Laid out the 13-3/8" casing hanger. Racked back the grapple assembly. Gas cut the sharp edge off the bottom of the casing stub(on lower deck).
PA	P	CRF	0330	0600	2.50	3062.0m	Cleared the rig floor of casing equipment and 127mm (5") drill pipe equipment. Rigged up Riser handling equipment.

WBM Data

Mud Type:	KCL/Glycol	API FL:	7cm³/30m	KCl:	8%	Solids:	4.26	Viscosity:	0sec/L
Sample-From:	Pits	Filter-Cake:	1mm	Hard/Ca:	880	H2O:	95%	PV:	0.015Pa/s
Time:	19:00	HTHP-FL:		MBT:	2.5	Oil:		YP:	0.125MPa
Weight:	1.15sg	HTHP-Cake:		PM:	0.6	Sand:	0.2	Gels 10s:	0.038
Temp:				PF:	0.18	pH:	10.3	Gels 10m:	0.053
						PHPA:	Oppb	Fann 003:	7
								Fann 006:	9
								Fann 100:	26
								Fann 200:	36
								Fann 300:	41
								Fann 600:	56

Comment Centrifuged surface mud with each machine set at 3000 rpm/42gpm. Backload to the PWrangler, approx 820bbbls of mud @ 9.6ppg per DRR request. (Treated with 3 gal/100 bbl Idcide)
 Dumped 10bbbls dead vol from Slug Pit.
 Filled Slug Pit with Seawater, and dumped seawater in Pit 1.
 **Test #1 on mud displaced from the well.
 **Test #2 on centrifuged mud in Pit #5. Retort (uncorrected) = 8% solids.
 **Test #3 on centrifuged mud in Pits #4/5, at time of backload.

Bulk Stocks

Name	Unit	In	Used	Adjust	Balance
Barite	MT	0	0	-45	172.0
Gel	MT	0	0	0	70.0
Cement	MT	0	0	-12	59.0
HTB cement	MT	0	7	-30	12.0
Fuel	M3	0	13	-16	338.4
Potable Water	M3	0	20	-18	356.0
Drill Water	M3	3	3	300	992.0
Helifuel	Litres	0	0	0	0.0
KCl Brine	M3	0	0	0	0.0
Mud	M3	0	0	0	0.0

Personnel On Board

Company	Pax
Santos	4
DOGC	48
ESS	8
BHI	4
Rheochem	2
Dowell	2
TMT	6
MI Swaco	1
Smith Tool Company	1
Dril-Quip	2
GO Offshore	1
Fugro	2
Total	81

Casing

OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		08 Jun 2008	0 Days	Simulated a fire in the laundry room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	29	08 Jun 2008	0 Days	Drill crew - 8 Deck crew - 14 Mech - 2 Welder - 3 Elect - 2
Lost Time Incident	1	30 May 2008	9 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	08 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	13	08 Jun 2008	0 Days	5 x cold work permits 8 x hot work permits
Safety Meeting	3	08 Jun 2008	0 Days	Reviewed stop cards for the week and awarded Santos best stop card to Dylan Trigwell. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Hand Placements / Pinch Points.
Santos Induction	10	08 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	40	08 Jun 2008	0 Days	19 - Safe 21 - Unsafe

Shakers, Volumes and Losses Data				Engineer : Kellie Jericho / Christian DeMarco			
Available	131.2m³	Losses	15.0m³	Equip.	Descr.	Mesh Size	Hours
Active	0.0m³	Downhole		Centrifuge 1	MI Swaco		23
Mixing		Surf+ Equip	0.0m³	Centrifuge 2	MI Swaco		23
Hole	0.0m³	Dumped	1.6m³	Shaker 1	MI Swaco	40/20 165/165/84/84	7
Slug	0.0m³	De-Sander		Shaker 2	MI Swaco	40/20 165/165/84/84	7
Reserve	131.2m³	De-Silter		Shaker 3	MI Swaco	40/20 165/165/84/84	7
Kill		Centrifuge	13.4m³	Shaker 4	MI Swaco	40/20 165/165/84/84	7
Brine		Tripping					
Comment				Transferred 820 bbls of 9.6ppg mud to the Pacific Wrangler.			

Marine										
Weather check on 08 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	33km/h	45.0deg	1029.00bar	15.0C°	0.8m	45.0deg	3sec	1	1412.7	171.00
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1454.5	159.21
0.5deg	0.5deg	1.50m	3.0m	225.0deg	11sec			3	1453.6	159.21
Rig Dir.	Ris. Tension	VDL	Comments					4	1479.5	171.91
								5	1384.7	145.15
								6	1408.8	164.20
45.0deg	195.04mt	966.15mt	Guide Line Tension: 24 kips.					7	1430.7	179.17
								8	1511.5	172.82

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	08:15 8th June 08		On location, running standby.	Item	Unit	Quantity
				Fuel	m3	538
				Potable Water	m3	346
				Drill Water	m3	620
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
Mud	m3	0				
Pacific Wrangler	12:30hrs 4/6/08		On location, running standby. Received 130m³ of 9.6ppg Mud	Item	Unit	Quantity
				Fuel	m3	461
				Potable Water	m3	190
				Drill Water	m3	0
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	108
				Gel	mt	0
				KCl Brine	m3	182
Mud	m3	130				
Helicopter Movement						
Flight #	Time	Destination	Comment			Pax
N/A			No flights today			5

From : Chris Roots / Nathan Peri
OIM : Rod Dotson
Well Data

Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	24.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	27.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continued to pull the Riser joints. (total joints pulled 27, joints remaining 9)			
RT-ML	597.7m	Planned Op	Pull and lay out Riser joints to the boat. land the BOPs on the Nomar. Run and cut/retrieve the 30x20' casing and PGB/Mudmat. Layout remaining drill pipe / BHA stands.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Landed and latched the 340mm (13-3/8") Casing Hanger, pulled 22.6 t (50klbs) to pull the assembly free. POOH.

Rigged up to pull the BOPs/Riser.

Crane incident while lifting Riser off the drill floor.

Continued pulling Riser (15 jts pulled).

Operations For Period 0000 Hrs to 2400 Hrs on 09 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	TP (DTF)	CCT	0000	0030	0.50	3062.0m	Landed the grapple assembly onto the 340mm (13-3/8") casing hanger. Picked up to check the grapple is latched, pulled up 9.0 t (20klbs). Placed 13 kNm (10k ft.lbs) of RH torque into the pipe. Continued pulling up, casing hanger sheared @ 22.6 t (50 klbs) overpull. Flow checked the well.
PA	P	CCT	0030	0230	2.00	3062.0m	Pulled the casing assembly to surface (no problems pulling the casing through the BOPs).
PA	P	CCT	0230	0330	1.00	3062.0m	Laid out the 340mm (13-3/8") casing hanger. Racked back the grapple assembly. Gas cut the sharp edge off the bottom of the casing stub on lower deck.
PA	P	CRF	0330	0600	2.50	3062.0m	Cleared the rig floor of casing equipment and 127mm (5") drill pipe equipment. Rigged up Riser handling equipment.
PA	P	RR2	0600	0700	1.00	3062.0m	Continued rigging up Riser equipment. Pulled the Diverter.
PA	P	RR2	0700	0830	1.50	3062.0m	Made up the Riser landing joint to the slip joint. Scoped in slip joint and locked in.
PA	P	RR2	0830	1100	2.50	3062.0m	Functioned wellhead connector to unlatch. Attempted to pull the BOPs, unable to pull with 18 t (40 klbs) overpull. Repositioned the rig over location. Overpulled 22.6 t (50 klbs), BOPs moved free of the wellhead. Moved the rig off location 20m stbd/fwd.
PA	P	RR2	1100	1300	2.00	3062.0m	Latched SDL ring to diverter housing, removed storm saddles. Removed choke / kill and booster goosenecks.
PA	P	RR2	1300	1400	1.00	3062.0m	Pulled and removed the landing joint.
PA	TP (RE)	RR2	1400	1500	1.00	3062.0m	Crane cable jumped the crown sheave wheel while lifting Riser slip joint. Slip joint was lowered to catwalk and operations suspended.
PA	TP (RE)	SM	1500	1530	0.50	3062.0m	Conducted a safety standown with all crews on tour. Discussed the incident with all concerned parties.
PA	P	RR2	1530	2400	8.50	3062.0m	Continued pulling Riser and lifting them directly to the Far Grip. Total joints pulled = 15.

Operations For Period 0000 Hrs to 0600 Hrs on 10 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	RR2	0000	0600	6.00	3062.0m	Continued pulling Riser joints (17 Jts). Riser joints backloaded directly onto the Pacific Wrangler. (9 x Riser Jts remain to be pulled)

WBM Data					
Mud Type:	API FL:	KCl:	Solids:	Viscosity:	
Sample-From:	Filter-Cake:	Hard/Ca:	H2O:	PV:	
Time:	HTHP-FL:	MBT:	Oil:	YP:	
Weight:	HTHP-Cake:	PM:	Sand:	Gels 10s:	
Temp:		PF:	pH:	Gels 10m:	
			PHPA:	Fann 003:	
				Fann 006:	
				Fann 100:	
				Fann 200:	
				Fann 300:	
				Fann 600:	
Comment Continued to centrifuge Surface mud and then treated it with 3gal/100bbl Idcide. Mud Check #1 (Pit 2); was a blend of cement contaminated mud, noncement contaminated mud and the dead volume of brine. Higher Chlorides/Glycol % is due to the brine. Retort (Uncorrected) on Check #1 = 7.5% solids. Mud Check #2 (Pit 5); was centrifuged mud from the active system (Pits 3A/B originally). Uncorrected Solids from retort on Check #2= 6.5%. ** Backloaded 315 bbl of 9.45ppg KCl/Glycol (Pit 2) and 430 bbl of 9.35 ppg KCl/Glycol fluid (Pit 5) to PWrangler.					

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	172.0	Santos	4
Gel	MT	0	0	0	70.0	DOGC	48
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	0	0	12.0	BHI	4
Fuel	M3	0	14	0	324.4	Rheochem	2
Potable Water	M3	9	15	0	350.0	Dowell	2
Drill Water	M3	0	12	0	980.0	TMT	6
Helifuel	Litres	0	0	0	0.0	Smith Tool Company	1
KCl Brine	M3	0	0	0	0.0	Dril-Quip	2
Mud	M3	0	0	0	0.0	GO Offshore	1
						Fugro	2
						Total	80

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		08 Jun 2008	1 Day	Simulated a fire in the laundry room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	35	09 Jun 2008	0 Days	Drill crew - 8 Deck crew - 14 Mech - 5 Welder - 5 Subsea - 3
Lost Time Incident	1	30 May 2008	10 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Lost Time Incident	1	09 Jun 2008	0 Days	While the slip joint (SJ) was held in the draw works elevators, the starboard crane was slewed in and one of two slings was attached to the bottom of the SJ. As the crane pulled up on the sling he also slewed right, it pulled the bottom of the SJ out over the v-door and the driller lowered the blocks down simultaneously to position the SJ in a horizontal position (as planned). The second crane sling was attached to the SJ and the crane op went to take the load on both slings. ** However at this stage, the crane operator had not repositioned his crown sheave over the center of the SJ. When the crane op picked up to take the load on both slings, the fleet angle between the crown sheave and crane block was great enough to allow the cable to jump the crown sheave. This caused the cable to part several strands and seriously weaken the cable. The situation was assessed and the SJ was lowered down onto the catwalk / v-door while the top was still attached to the draw works elevators. No reported injuries or equipment damage other then the cable. ** A safety standown was undertaken and this event was discussed at length with all the crews on tour. The cable will be replaced.
Pre-Tour Meeting	4	09 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	12	09 Jun 2008	0 Days	4 x cold work permits 8 x hot work permits
Safety Meeting	3	08 Jun 2008	1 Day	Reviewed stop cards for the week and awarded Santos best stop card to Dylan Trigwell. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Hand Placements / Pinch Points.
Santos Induction	9	09 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	36	09 Jun 2008	0 Days	19 - Safe 17 - Unsafe

Marine										
Weather check on 09 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	56km/h	45.0deg	1020.00bar	15.0C°	1.5m	45.0deg	3sec	1	1403.9	169.19
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1458.8	162.84
0.7deg	0.5deg	1.50m	3.0m	225.0deg	11sec			3	1462.1	151.95
Rig Dir.	Ris. Tension	VDL		Comments				4	1413.7	151.05
45.0deg	169.19mt	Guide Line Tension: 24 kips.						5	1404.2	137.89
								6	1417.9	152.86
								7	1435.0	161.93
								8	1421.0	165.11

Boats	Arrived (date/time)		Departed (date/time)	Status	Bulks			
Far Grip	08:15 8th June 08			On location, running standby.	Item		Unit	Quantity
					Fuel		m3	524
					Potable Water		m3	338
					Drill Water		m3	620
					Cement		mt	0
					HTB cement		mt	0
					Barite		mt	0
					Gel		mt	68
					KCl Brine		m3	8
Mud		m3	0					
Pacific Wrangler	12:30hrs 4/6/08			On location, running standby. Received a further 119 m3 of 9.4ppg mud (1.9 LGS).	Item		Unit	Quantity
					Fuel		m3	450
					Potable Water		m3	190
					Drill Water		m3	0
					Cement		mt	45
					HTB cement		mt	0
					Barite		mt	108
					Gel		mt	0
					KCl Brine		m3	182
Mud		m3	249					
Helicopter Movement								
Flight #		Time		Destination		Comment		Pax
BWJ	11:05	Wynyard						1
BWJ	11:15	Jarver 1						2

From : Chris Roots / Nathan Peri OIM : Rod Dotson						
Well Data						
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	25.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	28.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continued cutting the 762mm (30") casing.			
RT-ML	597.7m	Planned Op	Retrieve the 762mm (30") housing and PGB/Mudmat. Lay out the derrick tubulars. Ballast rig. Pull anchors.			
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Pulled the Riser and BOPs.

Ran and cut the 20" casing. Retrieved the 20" casing to surface (5m).

Operations For Period 0000 Hrs to 2400 Hrs on 10 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	P	RR2	0000	0600	6.00	3062.0m	Continued pulling Riser joints (17 Jts). Riser joints backloaded directly onto the Pacific Wrangler. (9 x Riser Jts remain to be pulled)
PA	P	RR2	0600	0900	3.00	3062.0m	Continued pulling the Riser joints and backloading onto the Pacific Wrangler. Total joints backloaded = 19 Jts.
PA	P	RR2	0900	1000	1.00	3062.0m	Pulled the BOPs through the splash zone with a double of Riser and aligned BOP posts into bottom of Normar carrier guide funnels. Pulled BOPs up and landed onto the Normar carrier.
PA	P	RR2	1000	1400	4.00	3062.0m	Disconnected podlines, moved guidelines from BOP funnels. nipped down the Termination joint. Moved the BOPs off well center. Laid out the double of Riser.
PA	P	HBHA	1400	1530	1.50	3062.0m	Rigged down Riser equipment. Prepare the floor for the casing cutting equipment.
PA	P	HBHA	1530	1630	1.00	3062.0m	Broke out the 340mm (13-3/8") casing cutter assembly from the derrick. Concurrently moved the rig back over location.
PA	P	TI	1630	1800	1.50	3062.0m	Picked up and made up the 762mm x 508mm (30" x 20") casing cutter assembly.
PA	P	RS	1800	1830	0.50	3062.0m	Serviced rig equipment.
PA	P	TI	1830	2000	1.50	0.0m	TIH with 1 x std 203mm (8") drill collars on 127mm (5") drill pipe. ROV assisted the cutting assembly into the wellhead, then cut the guide ropes.
PA	P	CCT	2000	2030	0.50	3062.0m	Landed down with 9.0 t (20klbs), overpulled to check the tool had latched, pulled 11 t (25klbs) over and held this weight. Cutting depth = 598.87 mRT
PA	P	CCT	2030	2130	1.00	3062.0m	Cut 508mm (20") casing with 100rpm, 1325 L/min (350gpm), 5.0 MPa(750psi), 7-27 kNm (5-20k ft.lbs).
PA	P	CCT	2130	2230	1.00	3062.0m	Observed the rotating string with ROV. Noted drop off on torque at surface, continued cutting and then observed the 508mm (20") wellhead spinning. The wellhead then popped out of the 30" Housing. Sat down and relanded the 508mm (20") , overpulled 9.0 t (20 klbs) again and held this weight. Attempted to cut the 762mm (30") casing. Started rotating the pipe and the 508mm Wellhead lifted again.
PA	TP (CWR)	CCT	2230	2400	1.50	3062.0m	POOH 508mm (20") wellhead (5.0m length) and cutting assembly.

Operations For Period 0000 Hrs to 0600 Hrs on 11 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	TP (VE)	CCT	0000	0100	1.00	3062.0m	Landed the wellhead on the 20" bowls. Unlatched the 18-3/4" collett from the wellhead and laid out assembly. Made up the 18-3/4" running tool to the wellhead and laid out.
PA	TP (VE)	CCT	0100	0200	1.00	3062.0m	Picked up the cutting assembly. Attempted to change out the 20" collett, unable to remove a rounded grub screw. Repaired the grub screw.
PA	TP (VE)	CCT	0200	0430	2.50	3062.0m	Proceeded to change out the 476mm (18-3/4") collett. Installed the 30" grapple c/w No-Go ring. Broke out 1 x spacer above the cutting knives (0.4m). Installed new 762mm (30") Knives.
PA	TP (VE)	CCT	0430	0600	1.50	3062.0m	TIH 762mm (30") casing cutting / retrieval assembly. Note: Adverse weather conditions.

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	172.0	Santos	4
Gel	MT	0	0	0	70.0	DOGC	50
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	0	0	12.0	BHI	4
Fuel	M3	0	16	0	308.4	Rheochem	1
Potable Water	M3	34	26	0	358.0	Dowell	2
Drill Water	M3	0	12	0	968.0	TMT	6
Helifuel	Litres	0	0	0	0.0	Smith Tool Company	1
KCl Brine	M3	0	0	0	0.0	Dril-Quip	2
Mud	M3	0	0	0	0.0	GO Offshore	1
						Fugro	2
						SSI	6
						Total	87

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		08 Jun 2008	2 Days	Simulated a fire in the laundry room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	23	10 Jun 2008	0 Days	Drill crew - 2 Deck crew - 13 Mech - 0 Welder - 3 Subsea - 5
Lost Time Incident	1	30 May 2008	11 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	10 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	9	10 Jun 2008	0 Days	4 x cold work permits 5 x hot work permits
Safety Meeting	3	08 Jun 2008	2 Days	Reviewed stop cards for the week and awarded Santos best stop card to Dylan Trigwell. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Hand Placements / Pinch Points.
Santos Induction	3	10 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	35	10 Jun 2008	0 Days	21 - Safe 14 - Unsafe

Marine										
Weather check on 10 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
14.8km	69km/h	315.0deg	1014.00bar	15.0C°	2.0m	315.0deg	3sec	1	1403.9	166.02
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1458.8	185.97
1.2deg	0.8deg	2.50m	3.0m	270.0deg	11sec			3	1462.1	152.86
								4	1413.7	151.05
Rig Dir.	Ris. Tension	VDL		Comments				5	1404.2	140.16
45.0deg	0.00mt	892.67mt	Guide Line Tension: 24 kips.		6			1417.9	159.21	
								7	1435.0	164.20
								8	1421.0	166.92

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		00:50hrs 10th June	Portland dock.	Item	Unit	Quantity
				Fuel	m3	494
				Potable Water	m3	330
				Drill Water	m3	770
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
				Mud	m3	0
Pacific Wrangler		10:00hrs 10th June	Portland dock.	Item	Unit	Quantity
				Fuel	m3	430
				Potable Water	m3	180
				Drill Water	m3	0
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	108
				Gel	mt	0
				KCl Brine	m3	182
				Mud	m3	249
Pacific Crest	15:50 8th June		On close standby to Ocean Patriot.	Item	Unit	Quantity
				Fuel	m3	105
				Potable Water	m3	15
Helicopter Movement						
Flight #	Time	Destination	Comment			Pax
BWJ	15:40	Wynyard				1
BWJ	16:02	Jarver 1				2

From : Chris Roots / Nathan Peri							
OIM : Rod Dotson							
Well Data							
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm		
Field	Jarver	TVD	3062.0m	Casing OD	340mm		
Drill Contractor	DOGC	Progress	0.0m	Shoe MD			
Rig	Ocean Patriot	Days from spud	26.77	Shoe TVD			
Water Depth (LAT)	576.2m	Days on well	29.33	F.I.T. / L.O.T.	/	Planned TD	3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Wait on weather.				
RT-ML	597.7m	Planned Op	Wait on weather.				
Rig Heading	45.0deg	Pull anchors and ballast the rig.					

Summary of Period 0000 to 2400 Hrs

Ran and cut and pulled the 762mm (30") housing PGB/Mudmat to surface.
Laid out the remaining tubulars in the derrick.
Wait on weather.

Operations For Period 0000 Hrs to 2400 Hrs on 11 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
PA	TP (VE)	CCT	0000	0100	1.00	3062.0m	Landed the wellhead on the 508mm (20") bowls. Unlatched the 476mm (18-3/4") collett from the wellhead and laid out assembly. Made up the 476mm (18-3/4") running tool to the wellhead and laid out.
PA	TP (VE)	CCT	0100	0200	1.00	3062.0m	Picked up the cutting assembly. Attempted to change out the 508mm (20") collett, unable to remove a rounded grub screw. Repaired the grub screw.
PA	TP (VE)	CCT	0200	0430	2.50	3062.0m	Proceeded to change out the 476mm (18-3/4") collett. Installed the 762mm (30") grapple c/w No-Go ring. Broke out 1 x spacer above the cutting knives (0.4m). Installed new 762mm (30") Knifes.
PA	TP (VE)	CCT	0430	0600	1.50	3062.0m	TIH 762mm (30") casing cutting / retrieval assembly. Note: Adverse weather conditions.
PA	TP (VE)	CCT	0600	0630	0.50	3062.0m	ROV assisted with stabbing into the wellhead and proceeded to cut the guide ropes. Landed 762mm (30") casing cutter / retrieval assembly with 4.5 t (10 klbs) down weight. Overpulled 6.8 t (15 klbs) to confirm the grapple had latched.
PA	TP (VE)	CCT	0630	0700	0.50	3062.0m	Proceeded to cut the 762mm (30") casing at 598.3m RT (1.3m below sea bed). Cutting parameters: 120 rpm, 1400 L/min (370gpm), 5.5 MPa (800psi) and holding 6.8 t (15 klbs) overpull.
PA	TP (VE)	WH	0700	0730	0.50	3062.0m	ROV observed the PGB / wellhead vibrating. Stopped rotating and pumps. Pressured up on the DSC and observed the wellhead lift followed by the chains tightening and the mudmat pulling free without overpull.
PA	TP (VE)	WH	0730	0930	2.00	3062.0m	Pulled slowly to surface. Landed the 762mm (30") housing and PGB on the skate in the moonpool. Chained down the PGB to the skate. Concurrent Ops: ROV conducted a seabed survey of the surrounding area.
PA	P	WH	0930	1100	1.50	3062.0m	Released the 762mm (30") Grapple from the housing. Cut the guide wires from the guide posts. Moved the Skate to the starboard side of the moonpool. Removed the 762mm (30") casing stub from the PGB (offline).
PA	P	PLD	1100	1900	8.00	3062.0m	Broke and laid out the cutting assembly. Proceeded to lay down derrick tubulars. 3 x 8" DC's 69 x 127mm (5") drill pipe. 12 x 127mm (5") HWDP.
PA	P	PLD	1900	2130	2.50	3062.0m	Picked up the 30' cutting assembly and disassembled.
PA	P	PLD	2130	2230	1.00	3062.0m	Broke out 2 x 203mm (8") DC's.
RM	TP (WOW)	AH	2230	2400	1.50	3062.0m	Waiting on weather to begin pulling anchors and to ballast the rig. Time: 23:59 Winds (kt): 42-50 Seas (m): 3.0 Swell (m): 5.0 Pitch (°): 0.8 Roll (°): 2.0

Operations For Period 0000 Hrs to 0600 Hrs on 12 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	TP (WOW)	AH	0000	0300	3.00	3062.0m	Waited on weather to begin pulling anchors and to ballast the rig. Time: 03:00 Winds (kt): 32- 40 , 315° Seas (m): 3.0 Swell (m): 5.0 Pitch (°): 0.8 Roll (°): 2.0

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	TP (WOW)	AH	0300	0600	3.00	3062.0m	Heave (m): 3.0 Waited on weather. Time: 06:00 Winds (kt): 35 , 315° Seas (m): 3.0 Swell (m): 5.0 Pitch (°): 0.8 Roll (°): 2.0 Heave (m): 3.0

Bulk Stocks							Personnel On Board	
Name	Unit	In	Used	Adjust	Balance		Company	Pax
Barite	MT	0	0	0	172.0		Santos	6
Gel	MT	0	0	0	70.0		DOGC	52
Cement	MT	0	0	0	59.0		ESS	8
HTB cement	MT	0	0	0	12.0		BHI	4
Fuel	M3	0	7	0	301.4		Rheochem	1
Potable Water	M3	32	32	0	358.0		Dowell	2
Drill Water	M3	0	6	0	962.0		TMT	6
Helifuel	Litres	0	0	0	0.0		Smith Tool Company	1
KCl Brine	M3	0	0	0	0.0		Dril-Quip	1
Mud	M3	0	0	0	0.0		GO Offshore	1
							Fugro	2
							SSI	6
							Total	90

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		08 Jun 2008	3 Days	Simulated a fire in the laundry room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	31	11 Jun 2008	0 Days	Drill crew - 7 Deck crew - 13 Mech - 4 Welder - 6 Subsea - 1
Lost Time Incident	1	30 May 2008	12 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	11 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	8	11 Jun 2008	0 Days	4 x cold work permits 4 x hot work permits
Safety Meeting	3	08 Jun 2008	3 Days	Reviewed stop cards for the week and awarded Santos best stop card to Dylan Trigwell. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Hand Placements / Pinch Points.
Santos Induction	4	11 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	19	11 Jun 2008	0 Days	8 - Safe 11 - Unsafe
STOP Tour	3	11 Jun 2008	0 Days	Supervisor STOP audits. 2 x Dodi 1 x Santos

Marine										
Weather check on 11 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
7.4km	93km/h	320.0deg	1004.00bar	15.0C°	3.0m	320.0deg	3sec	1	1403.9	155.13
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1458.8	172.82
1.2deg	0.8deg	2.50m	5.0m	320.0deg	11sec			3	1462.1	151.95
Rig Dir.	Ris. Tension	VDL		Comments				4	1413.7	148.78
45.0deg	0.00mt	867.72mt						5	1404.2	146.96
								6	1417.9	169.19
								7	1435.0	164.20
								8	1421.0	169.19

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	15:30 10th June		Running standby.	Item	Unit	Quantity
				Fuel	m3	468
				Potable Water	m3	322
				Drill Water	m3	770
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
				Mud	m3	0
Pacific Wrangler			Transit to Ocean Patriot ETA 07:00 12th June	Item	Unit	Quantity
				Fuel	m3	415
				Potable Water	m3	215
				Drill Water	m3	88
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	108
				Gel	mt	0
				KCl Brine	m3	182
				Mud	m3	249
Pacific Crest		10:00 11th June	Off contract.	Item	Unit	Quantity
				Fuel	m3	103
				Potable Water	m3	13.5

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
BWJ	10:48	Wynyard		6	
BWJ	10:58	Jarver 1		3	

From : Chris Roots / Nathan Peri OIM : Rod Dotson					
Well Data					
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm
Field	Jarver	TVD	3062.0m	Casing OD	340mm
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	
Rig	Ocean Patriot	Days from spud	27.77	Shoe TVD	
Water Depth (LAT)	576.2m	Days on well	30.33	F.I.T. / L.O.T.	/
RT-SL(LAT)	21.5m	Planned TD 3022.0m			
RT-ML	597.7m	Current Op @ 0600 Continued to wait on the weather. Deballasted the rig to transit draft depth (10m).			
Rig Heading	45.0deg	Planned Op Pull anchors and tow to Portland.			

Summary of Period 0000 to 2400 Hrs

Continued waiting on weather to pull anchors.
 Started deballasting the rig @ midnight.

Operations For Period 0000 Hrs to 2400 Hrs on 12 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	TP (WOW)	AH	0000	0300	3.00	3062.0m	Waited on weather to begin pulling anchors and to deballast the rig. Time: 03:00 , Winds: 32- 40 kt , 315° , Seas: 3.0m , Swell: 5.0m , Pitch: 0.8° , Roll: 2.0° , Heave: 3.0m
RM	TP (WOW)	AH	0300	0600	3.00	3062.0m	Waited on weather. Time: 06:00 , Winds: 35 kt , 315° , Seas: 3.0m , Swell: 5.0m , Pitch: 0.8° , Roll: 2.0° , Heave: 3.0m.
RM	TP (WOW)	AH	0600	0900	3.00	3062.0m	Waited on weather. Time: 12:00, Winds: 24 kt , 310° , Seas: 2.3m , Swell: 5-6m , Pitch: 1.0° , Roll: 2.0° , Heave: 2.8m.
RM	TP (WOW)	AH	0900	1100	2.00	3062.0m	Deballasted the rig from drilling draft (23.5m) to survival draft (20.0m).
RM	TP (WOW)	AH	1100	1800	7.00	3062.0m	Waited on weather. Time: 18:00 , Winds: 27 kt , 310° , Seas: 2.2m , Swell: 5.5m , Pitch: 1.0° Roll: 2.0° , Heave: 2.8m
RM	TP (WOW)	AH	1800	2400	6.00	3062.0m	Waited on weather. Time: 23:59 , Winds: 27 kt , 315° , Seas: 2.5m , Swell: 4-5m , Pitch: 1.0° Roll: 2.0° , Heave: 2.8m
RM	TP (WOW)	AH	2400	2400	0.00	3062.0m	Completed P/Testing Kelly hoses and upper/ lower IBOPs.

Operations For Period 0000 Hrs to 0600 Hrs on 13 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	TP (WOW)	AH	0000	0300	3.00	3062.0m	Waited on weather to begin pulling anchors. Time: 05:00 , Winds:30 - 35 kt , 240° , Seas: 3.0m , Swell: 5.0m , Pitch: 1.0° , Roll: 2.0° , Heave: 2.6m
RM	TP (WOW)	AH	0000	0000	0.00	3062.0m	Started deballasting the rig from survival draft (20m) to transit draft(10m).
RM	TP (WOW)	AH	0300	0530	2.50	3062.0m	Waited on weather to begin pulling anchors. Time: 03:00 , Winds: 33 - 40 kt , 240° , Seas: 3.0m , Swell: 5.0m , Pitch: 1.2° , Roll: 2.5° , Heave: 2.6m. Combined seas of 7.5m.
RM	TP (WOW)	AH	0530	0600	0.50	3062.0m	Completed deballasting the rig to transit draft (12.5m).

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	-41	131.0	Santos	6
Gel	MT	0	0	0	70.0	DOGC	52
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	0	0	12.0	BHI	2
Fuel	M3	0	7	0	294.4	Rheochem	1
Potable Water	M3	33	15	12	388.0	Dowell	2
Drill Water	M3	0	24	-84	854.0	TMT	6
Helifuel	Litres	0	0	0	0.0	GO Offshore	1
KCl Brine	M3	0	0	0	0.0	Fugro	2
Mud	M3	0	0	0	0.0	SSI	6
						Total	86

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill	27	08 Jun 2008	4 Days	Simulated a fire in the laundry room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA		12 Jun 2008	0 Days	Drill crew - 1 Deck crew - 9 Mech - 7 Welder - 2 Subsea - 1 Elect - 7
Lost Time Incident	1	30 May 2008	13 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	12 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	11	12 Jun 2008	0 Days	8 x cold work permits 3 x hot work permits
Safety Meeting	3	08 Jun 2008	4 Days	Reviewed stop cards for the week and awarded Santos best stop card to Dylan Trigwell. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Hand Placements / Pinch Points.
Santos Induction	4	12 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	60	12 Jun 2008	0 Days	29 - Safe 31 - Unsafe
STOP Tour	2	12 Jun 2008	0 Days	Supervisor STOP audits. 2 x Dodi

Marine											
Weather check on 12 Jun 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
9.3km	59km/h	300.0deg	1002.00bar	14.0C°	2.5m	300.0deg	3sec	1	1403.9	155.13	
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1458.8	172.82	
1.2deg	0.8deg	2.50m	5.0m	290.0deg	12sec			3	1462.1	151.95	
Rig Dir.	Ris. Tension	VDL		Comments				4	1413.7	148.78	
45.0deg	0.00mt	874.53mt			5			1404.2	146.96		
					6			1417.9	169.19		
								7	1435.0	164.20	
								8	1421.0	169.19	

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	15:30 10th June		Running standby on location.	Item	Unit	Quantity
				Fuel	m3	458
				Potable Water	m3	314
				Drill Water	m3	770
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
				Mud	m3	0
Pacific Wrangler	08:50 11th June		Running standby on location.	Item	Unit	Quantity
				Fuel	m3	415
				Potable Water	m3	215
				Drill Water	m3	88
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	108
				Gel	mt	0
				KCl Brine	m3	182
				Mud	m3	249
Pacific Crest		10:00 11th June	Off contract.	Item	Unit	Quantity
				Fuel	m3	103
				Potable Water	m3	13.5

Helicopter Movement					
Flight #	Time	Destination	Comment	Pax	
BWJ	11:17	Wynyard		4	
BWJ	11:30	Jarver 1		8	

From : Chris Roots / Nathan Peri							
OIM : Rod Dotson							
Well Data							
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm		
Field	Jarver	TVD	3062.0m	Casing OD	340mm		
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m		
Rig	Ocean Patriot	Days from spud	28.77	Shoe TVD	1942.0m		
Water Depth (LAT)	576.2m	Days on well	31.33	F.I.T. / L.O.T.	/ 1.55sg		
RT-SL(LAT)	21.5m	Current Op @ 0600	Continued waiting on weather.				
RT-ML	597.7m	Planned Op	Pull anchors and tow to Portland.				
Rig Heading	45.0deg						

Summary of Period 0000 to 2400 Hrs

Waited on weather.

Operations For Period 0000 Hrs to 2400 Hrs on 13 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	TP (WOW)	AH	0000	0300	3.00	3062.0m	Waited on weather to begin pulling anchors. Time: 03:00 , Winds:30 - 35 kt , 240° , Seas: 3.0m , Swell: 5.0m , Pitch: 1.0° , Roll: 2.0° , Heave: 2.6m
RM	TP (WOW)	AH	0300	0530	2.50	3062.0m	NOTE: Started deballasting the rig from survival draft (20m) to transit draft (12.5m). Waited on weather to begin pulling anchors. Time: 05:00 , Winds: 33 - 40 kt , 240° , Seas: 3.0m , Swell: 5.0m , Pitch: 1.2° , Roll: 2.5° , Heave: 2.6m. Combined seas of 7.5m.
RM	TP (WOW)	AH	0530	0600	0.50	3062.0m	Completed deballasting the rig to transit draft (12.5m).
RM	TP (WOW)	AH	0600	1200	6.00	3062.0m	Waited on weather to begin pulling anchors. Time: 12:00 , Winds: 35kt , 225° , Seas: 3.0m , Swell: 6.5m , Pitch: 2.0° , Roll: 2.5° , Heave: 3.0m. Combined seas of 9.50m.
RM	TP (WOW)	AH	1200	1800	6.00	3062.0m	Waited on weather to begin pulling anchors. Time: 17:00 , Winds: 29kt , 215° , Seas: 3.0m , Swell: 8.0m , Pitch: 2.5° , Roll: 2.7° , Heave: 3.0m. Combined seas of 11.0m.
RM	TP (WOW)	AH	1800	2400	6.00	3062.0m	Waited on weather to begin pulling anchors. Time: 24:00 , Winds: 25 kt , 220° , Seas: 2.0m , Swell: 6.0m , Pitch: 1.5° , Roll: 2.0° , Heave: 2.5m. Combined seas of 8.0m. NOTE: Continued Choke & Kill manifold pressure testing to 1.7 / 34.5 MPa (250/5000psi) for 5/10minutes.

Operations For Period 0000 Hrs to 0600 Hrs on 14 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	TP (WOW)	AH	0000	0600	6.00	3062.0m	Waited on weather to begin pulling anchors. Time: 06:00 , Winds: 15 kt , 200° , Seas: 2.0m , Swell: 4.0m , Pitch: 1.5° , Roll: 2.0° , Heave: 2.5m. Combined seas of 6.0m. NOTE: Completed Choke & Kill manifold pressure testing to 1.7 / 34.5 MPa (250/5000psi) for 5/10minutes.

General Comments

Comments	Rig Requirements	Lessons Learnt
	Continued with derrick bolt change out (SSI).	

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	41	172.0	Santos	4
Gel	MT	0	0	0	70.0	DOGC	51
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	0	0	12.0	BHI	2
Fuel	M3	0	8	0	286.4	Rheochem	1
Potable Water	M3	34	27	-12	383.0	Dowell	2
Drill Water	M3	0	12	84	926.0	TMT	6
Helifuel	Litres	0	0	0	0.0	GO Offshore	1
KCl Brine	M3	0	0	0	0.0	Fugro	2
Mud	M3	0	0	0	0.0	SSI	6
						Total	83

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		08 Jun 2008	5 Days	Simulated a fire in the laundry room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	21	13 Jun 2008	0 Days	Drill crew - 5 Deck crew - 10 Welder - 6
Lost Time Incident	1	30 May 2008	14 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	13 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	13	13 Jun 2008	0 Days	8 x cold work permits 5 x hot work permits
Safety Meeting	3	08 Jun 2008	5 Days	Reviewed stop cards for the week and awarded Santos best stop card to Dylan Trigwell. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Hand Placements / Pinch Points.
Santos Induction	1	13 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	59	13 Jun 2008	0 Days	31 - Safe 28 - Unsafe
STOP Tour	5	13 Jun 2008	0 Days	Supervisor STOP audits. 5 x Dodi 1 x Santos

Marine										
Weather check on 13 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
13.0km	67km/h	220.0deg	1020.00bar	14.0C°	3.1m	220.0deg	3sec	1	1403.9	131.09
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2	1458.8	176.90
1.2deg	0.8deg	2.50m	6.0m	220.0deg	12sec			3	1462.1	171.00
								4	1413.7	170.10
Rig Dir.	Ris. Tension	VDL		Comments				5	1404.2	146.96
45.0deg	0.00mt	874.53mt			6			1417.9	171.91	
								7	1435.0	165.11
								8	1421.0	170.10

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip	15:30 10th June		Running standby on location.	Item	Unit	Quantity
				Fuel	m3	448
				Potable Water	m3	306
				Drill Water	m3	770
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
				Mud	m3	0
Pacific Wrangler	08:50 11th June		Running standby on location.	Item	Unit	Quantity
				Fuel	m3	388
				Potable Water	m3	205
				Drill Water	m3	88
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	108
				Gel	mt	0
				KCl Brine	m3	182
				Mud	m3	249

Helicopter Movement

Flight #	Time	Destination	Comment	Pax
BWJ	10:05	Wynyard		5
BWJ	10:15	Jarver 1		8

From : Chris Roots / Nathan Peri OIM : Rod Dotson						
Well Data						
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	29.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	32.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600 Retrieving #5 anchor (5 anchors bolstered).				
RT-ML	597.7m	Planned Op Retrieve # 8 & #4 anchors.				
Rig Heading	45.0deg	Tow to Portland.				

Summary of Period 0000 to 2400 Hrs

Waited on weather.
Commenced anchor handling operations.
Pulled the primary anchors.
Attached the tow bridle to the Pacific Wrangler.

Operations For Period 0000 Hrs to 2400 Hrs on 14 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	TP (WOW)	AH	0000	0600	6.00	3062.0m	Waited on weather to begin pulling anchors. Time: 06:00 , Winds: 15 kt , 200° , Seas: 2.0m , Swell: 4.0m , Pitch: 1.5° , Roll: 2.0° , Heave: 2.5m. Combined seas of 6.0m. NOTE: Completed Choke & Kill manifold pressure testing to 1.7 / 34.5 MPa (250/5000psi) for 5/10minutes.
RM	TP (WOW)	AH	0600	0700	1.00	3062.0m	Waited on weather.
RM	TP (VE)	AH	0700	1000	3.00	3062.0m	Called the boats in to commence anchor operations. Pacific Wrangler noted a crack in the epoxy resin in the spelter socket on the 600m pennant. Changed out the pennant wire with one from the Far Grip. After handling one anchor the replacement 600m pennant had a crack in the epoxy. Decision made to use the Pacific Wrangler as the tow vessel due to only having one pennant wire for pulling anchors. [Far Grip does not require 600m pennants to handle anchors]
RM	P	AH	1000	2400	14.00	3062.0m	10:17 - #3 PPC to Far Grip 10:19 - #7 PCC to Wranlger 11:03 - #3 Anchor off bottom. Problem with disc brakes on anchor winch. 11:10 - #7 Anchor off bottom 13:22 - Anchor #7 bolstered 13:44 - #7 PCC passed back to rig. 15:20 - #6 PCC passed to Wrangler. 16:07 - anchor off bottom. 16:37 - #3 anchor bolstered. 17:00 - #3 PCC passed to rig. 17:45 - #2 PCC passed to the FG 18:20 - #6 anchor bolstered. 18:45 - #6 PCC passed to rig. Pacific Wrangler moved to forward position to attach the tow bridle. 19:07 - #2 anchor off bottom. 21:25 - #2 anchor on deck of FG. Disconnected same. 23:29 - #2 PCC passed back to rig. #2 Anchor lifted onto the rig.

Operations For Period 0000 Hrs to 0600 Hrs on 15 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	AH	0000	0600	6.00	3062.0m	00:30 - #1 PCC passed to FG 00:30 - Tow bridle connected to Wrangler 00:50 - Wrangler @ 500m holding static tow. 04:00 - #1 anchor bolstered. 04:27 - #1 PCC passed back to rig 05:00 - #5 PCC passed to FG. Far Grip chased out on #5 anchor chain.

General Comments

Comments	Rig Requirements	Lessons Learnt
	Slipped and cut 158ft on cable on MRT #12. Install new cable wire on MRT's #3 & #5. Pressure tested TIW valves and grey valves.	

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	172.0	Santos	4
Gel	MT	0	0	0	70.0	DOGC	51
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	0	0	12.0	BHI	2
Fuel	M3	0	11	0	275.4	Rheochem	1
Potable Water	M3	18	26	0	375.0	Dowell	2
Drill Water	M3	0	6	0	920.0	TMT	6
Helifuel	Litres	0	0	0	0.0	GO Offshore	1
KCl Brine	M3	0	0	0	0.0	Fugro	2
Mud	M3	0	0	0	0.0	SSI	6
						Total	83

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		08 Jun 2008	6 Days	Simulated a fire in the laundry room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	32	14 Jun 2008	0 Days	Drill crew - 3 Deck crew - 14 Welder - 7
Lost Time Incident	1	30 May 2008	15 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	14 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	14	14 Jun 2008	0 Days	6 x cold work permits 8 x hot work permits
Safety Meeting	3	08 Jun 2008	6 Days	Reviewed stop cards for the week and awarded Santos best stop card to Dylan Trigwell. Discussed the fire drill and the abandonment drill held earlier. Safety topic: Hand Placements / Pinch Points.
Santos Induction	1	14 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	39	14 Jun 2008	0 Days	18 - Safe 21 - Unsafe
STOP Tour	5	14 Jun 2008	0 Days	Supervisor STOP audits. 5 x Dodi

Marine										
Weather check on 14 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
14.8km	43km/h	215.0deg	1024.00bar	14.0C°	0.6m	215.0deg	3sec	1	1403.9	131.09
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2		
1.2deg	0.8deg	2.50m	3.0m	220.0deg	12sec			3		
Rig Dir.	Ris. Tension	VDL		Comments				4	1413.7	170.10
45.0deg	0.00mt	874.53mt	Anchor handling operations commenced.				5	1421.9	146.96	
								6		
								7		
								8	1421.0	170.10

Boats		Arrived (date/time)		Departed (date/time)		Status		Bulks		
Far Grip	15:30 10th June				Pulling the primary anchors.		Item		Unit	Quantity
							Fuel		m3	431
							Potable Water		m3	298
							Drill Water		m3	770
							Cement		mt	0
							HTB cement		mt	0
							Barite		mt	0
							Gel		mt	68
							KCl Brine		m3	8
Mud		m3	0							
Pacific Wrangler	08:50 11th June				Connected to the tow bridle.		Item		Unit	Quantity
							Fuel		m3	372
							Potable Water		m3	200
							Drill Water		m3	88
							Cement		mt	45
							HTB cement		mt	0
							Barite		mt	108
							Gel		mt	0
							KCl Brine		m3	182
Mud		m3	249							
Helicopter Movement										
Flight #		Time		Destination		Comment			Pax	
BWJ	10:05	Wynyard							5	
BWJ	10:15	Jarver 1							8	

From : Chris Roots / Nathan Peri							
OIM : Rod Dotson							
Well Data							
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	Planned TD	3022.0m
Field	Jarver	TVD	3062.0m	Casing OD	340mm		
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m		
Rig	Ocean Patriot	Days from spud	30.77	Shoe TVD	1942.0m		
Water Depth (LAT)	576.2m	Days on well	33.33	F.I.T. / L.O.T.	/ 1.55sg		
RT-SL(LAT)	21.5m	Current Op @ 0600 Continued tow to Portland					
RT-ML	597.7m	Planned Op Continue tow to Portland					
Rig Heading	45.0deg						

Summary of Period 0000 to 2400 Hrs

Attached Pacific Wrangler to the tow bridle.
The Far Grip retrieved the primary anchors.
Rig on tow @ 20:30hrs.

Operations For Period 0000 Hrs to 2400 Hrs on 15 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	AH	0000	0600	6.00	3062.0m	00:30 - #1 PCC passed to FG 00:30 - Tow bridle connected to Wrangler 00:50 - Wrangler @ 500m holding static tow. 04:00 - #1 anchor bolstered. 04:27 - #1 PCC passed back to rig 05:00 - #5 PCC passed to FG. Far Grip chased out on #5 anchor chain.
RM	P	AH	0600	1200	6.00	3062.0m	06:25 - #5 anchor off bottom 08:50 - #5 anchor bolstered. 08:53 - PCC passed back to rig 09:07 - #8 PCC passed to FG 10:04 - FG soaking #8 anchor.
RM	P	AH	1200	1800	6.00	3062.0m	12:15 - #8 anchor bolstered 12:35 - #8 PCC passed back to rig. 13:45 - #4 PCC passed to FG 14:00 - Manoeuvred rig to get a better lead to chase out. 17:00 - #4 anchor off bottom. Manoeuvred rig to get a better lead on the bolster.
RM	P	AH	1800	2030	2.50	3062.0m	18:45 - Recovered chain slowly while moving the rig several times to try and keep the chain jamming in the chain cuts in the aft end of the bolster. 20:10 - #4 anchor bolstered. 20:30 - #4 PCC passed back to rig.
RM	P	RM	2030	2400	3.50	0.0m	On tight tow to Portland. Ocean Patriot on tight tow to Portland with Pacific Wrangler. Distanced travelled 19.2 km (10.4 Nm) Distance to go 380 km (205 nm) Avg speed 3.0 kts Position: 41° 11.6' S , 144° 05.5' E

Operations For Period 0000 Hrs to 0600 Hrs on 16 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	RM	0000	0600	6.00	0.0m	Ocean Patriot on tight tow to Portland with Pacific Wrangler. Position: 40° 55.8' S , 143° 52.7' E Distanced travelled 54 km (29 nm) Distance to go 345 km (186 nm) Avg speed 3.8 kts Bollard pull: 92 t ETA: 09:30am Wed 18th

General Comments

Comments	Rig Requirements	Lessons Learnt
Statement of facts will be taken on a corresponding way point towards Portland, equal to the distance between Jarver-1 and 1 nm from Pecten East-1 location.	Slipped and cut 27m of drill line.	

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	172.0	Santos	4
Gel	MT	0	0	1	71.0	DOGC	51
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	0	0	12.0	BHI	2
Fuel	M3	0	11	0	264.4	Rheochem	1
Potable Water	M3	0	17	0	358.0	Dowell	2
Drill Water	M3	0	12	0	908.0	TMT	6
Helifuel	Litres	0	0	0	0.0	GO Offshore	1
KCl Brine	M3	0	0	0	0.0	Fugro	2
Mud	M3	0	0	0	0.0	SSI	6
						Total	83

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Fire Drill		08 Jun 2008	7 Days	Simulated a fire in the laundry room. All personnel accounted for at lifeboat stations when the abandonment alarm sounded.
JHA	15	15 Jun 2008	0 Days	Drill crew - 3 Deck crew - 5 Welder - 3 Elect - 2 Mech - 2
Lost Time Incident	1	30 May 2008	16 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	15 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	11	15 Jun 2008	0 Days	4 x cold work permits 7 x hot work permits
Safety Meeting	3	15 Jun 2008	0 Days	Reviewed stop cards for the week and awarded Santos best stop card to Geoff Mathews. Safety topic: Hand Placements / Pinch Points. Hand awareness.
Santos Induction	0	15 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	55	15 Jun 2008	0 Days	28 - Safe 27 - Unsafe
STOP Tour	0	15 Jun 2008	0 Days	Supervisor STOP audits.

Marine										
Weather check on 15 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	13km/h	0.0deg	1028.00bar	13.0C°	0.0m	0.0deg	3sec	1		
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2		
1.0deg	0.8deg	2.50m	2.5m	225.0deg	12sec			3		
Rig Dir.	Ris. Tension	VDL		Comments				4		
45.0deg	0.00mt	879.97mt	On tight tow @ 20:30hrs.					5		
								6		
								7		
								8		

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip		22:30 15th June	Transit to Portland.	Item	Unit	Quantity
				Fuel	m3	411
				Potable Water	m3	290
				Drill Water	m3	770
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
				Mud	m3	0
Pacific Wrangler		20:30	Started tight tow to Portland @ 20:30hrs 15th June.	Item	Unit	Quantity
				Fuel	m3	352
				Potable Water	m3	195
				Drill Water	m3	88
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	108
				Gel	mt	0
				KCl Brine	m3	182
				Mud	m3	249

From : Chris Roots / Nathan Peri
OIM : Rod Dotson
Well Data

Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	31.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	34.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continued tow to Portland.			
RT-ML	597.7m	Planned Op	Continue tow to Portland.			
Rig Heading	45.0deg		ETA: 12:45hrs Wednesday.			

Summary of Period 0000 to 2400 Hrs

Continued tight tow to Portland.
Distance travelled: 167 km (90.46 nm)
Distance to go: 231 km (125 nm)
Avg speed: 3.75 kts

Operations For Period 0000 Hrs to 2400 Hrs on 16 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	RM	0000	0600	6.00	0.0m	Ocean Patriot on tight tow to Portland with Pacific Wrangler. Position: 40° 55.8' S , 143° 52.7' E Distanced travelled 54 km (29 nm) Distance to go 345 km (186 nm) Avg speed 3.8 kts Bollard pull: 92 t ETA: 09:30am Wed 18th
RM	P	RM	0600	1200	6.00	0.0m	Position: 40° 36' 0.95" S , 143° 35' 0.9" E Distanced travelled 96 km (52 nm) Distance to go 302 km (163 nm) Avg speed 3.8 kts Bollard pull: 102 t
RM	P	RM	1200	2000	8.00	0.0m	Position: 40° 17' 0.2" S , 143° 19' 0.5" E Distanced travelled 119.4 km (75.4 nm) Distance to go 259 km (140.0 nm) Avg speed 2.75 kts Bollard pull: 88-114 t NOTE: 1600 hrs Far Grip Statement Of Facts was taken at the way point which was equal distance from Jarver-1 to 1nm off Pecten East-1 location. Fuel: 395 m³ Pot Water: 287 m³ Drill Water: 770m³ Gel: 68 mt Cement G: 0 Bar: 0 Brine: 8 m³
RM	P	RM	2000	2400	4.00	0.0m	Position: 40° 04' 0.2" S , 143° 08' 0.4" E Total distanced travelled 167 km (90.4 nm) Total distance to go 232 km (125.0 nm) Avg speed 3.75 kts Bollard pull: 90-110 t ETA: 14:00 hrs Wed 18th

Operations For Period 0000 Hrs to 0600 Hrs on 17 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	RM	0000	0600	6.00	0.0m	Position: 39° 48' 0.6" S , 142° 55' 0.4" E Total distanced travelled 203 km (109.4 nm) Total distance to go 196 km (106.0 nm) Avg speed 2.80 kts Bollard pull: 88-111 t ETA: 12:45 hrs Wed 18th

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	-41	131.0	Santos	4
Gel	MT	0	0	0	71.0	DOGC	51
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	12	0	0.0	BHI	2
Fuel	M3	0	9	0	255.4	Rheochem	1
Potable Water	M3	15	21	12	364.0	Dowell	2
Drill Water	M3	0	12	-84	812.0	TMT	6
Helifuel	Litres	0	0	0	0.0	GO Offshore	1
KCl Brine	M3	0	0	0	0.0	Fugro	2
Mud	M3	0	0	0	0.0	SSI	6
						Total	83

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	16 Jun 2008	0 Days	Abandonment drill completed after the fire drill. Completed full muster at lifeboat stations in 4 minutes.
Fire Drill		16 Jun 2008	0 Days	Simulated a fire at anchor winch #7 & #8 . All personnel accounted for at lifeboat stations when the fire alarm sounded. Muster complete within 10 minutes.
First Aid	1	16 Jun 2008	0 Days	A bundle of HWDP (3) was landed on the racks for BHA inspection. There was a gap between this bundle and the inspected joints in which the IP placed his foot so he could remove the tag line. The bundled pipe moved and rolled over his steel cap and onto his foot. The IP went to the Medic who placed the foot in a bucket of ice. Their was only slight swelling on the foot and the medic will monitor the condition overnight. The IP can place all his weight on the foot OK. At the time of the incident, the weather conditions and rig movement were minimal.
JHA	26	16 Jun 2008	0 Days	Drill crew - 2 Deck crew - 10 Welder - 6 Elect - 0 Mech - 5 Subsea - 3
Lost Time Incident	1	30 May 2008	17 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	16 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring.
PTW Issued	17	16 Jun 2008	0 Days	9 x cold work permits 8 x hot work permits
Safety Meeting	3	15 Jun 2008	1 Day	Reviewed stop cards for the week and awarded Santos best stop card to Geoff Mathews. Safety topic: Hand Placements / Pinch Points. Hand awareness.
Santos Induction	0	16 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	41	16 Jun 2008	0 Days	18 - Safe 23 - Unsafe
STOP Tour	1	16 Jun 2008	0 Days	Supervisor STOP audits. 1 x Dodi

Marine										
Weather check on 16 Jun 2008 at 23:59								Rig Support		
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)
18.5km	28km/h	0.0deg	1025.00bar	13.0C°	0.0m	0.0deg	3sec	1		
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2		
1.0deg	0.8deg	2.50m	1.0m	225.0deg	12sec			3		
Rig Dir.	Ris. Tension	VDL		Comments				4		
45.0deg	0.00mt	879.97mt	On tight tow @ 20:30hrs 16th June.		5					
								6		
								7		
								8		

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip			Dockside Portland.Figures shown are for midnight in Portland. SOF @ 1600hrs: Fuel: 395 m³ PW: 287m³ DW: 770m³ Gel: 68 mt Brine: 8 m³	Item	Unit	Quantity
				Fuel	m3	614
				Potable Water	m3	282
				Drill Water	m3	770
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
				Mud	m3	0
Pacific Wrangler		20:30	Started tight tow to Portland @ 20:30hrs 15th June.	Item	Unit	Quantity
				Fuel	m3	316
				Potable Water	m3	190
				Drill Water	m3	88
				Cement	mt	45
				HTB cement	mt	0
				Barite	mt	108
				Gel	mt	0
				KCl Brine	m3	182
				Mud	m3	249

Helicopter Movement				
Flight #	Time	Destination	Comment	Pax
N/A			No flights today	

From : Peter Devine / Nathan Peri OIM : Rod Dotson						
Well Data						
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	32.77	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	35.33	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600	Continued tow to Portland.			
RT-ML	597.7m	Planned Op	Continue tow to Portland.			
Rig Heading	45.0deg		Take SOF at way point (ETA: 09:30hrs 18th June)			
			Continue tow to Portland.			
			ETA: 17:00hrs 18th June			

Summary of Period 0000 to 2400 Hrs

Continued tow to Portland.
Distance travelled (24hrs): 136 km (73.3 nm)
Avg speed: 3.0 kts

Operations For Period 0000 Hrs to 2400 Hrs on 17 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	RM	0000	0600	6.00	0.0m	Position: 39° 48' 0.6" S , 142° 55' 0.4" E Distance travelled last 6hrs: 33 km (19 nm) Avg speed 3.20 kts Total distance travelled 203 km (109.4 nm) Total distance to go 196 km (106.0 nm) Bollard pull: 88-111 t ETA: 12:45 hrs Wed 18th
RM	P	RM	0600	1200	6.00	0.0m	Position: 39° 34' 15" S , 142° 41' 28" E Distance travelled last 6hrs: 35 km (18 nm) Avg speed 3.0 kts Total distance travelled 236 km (127.4 nm) Total distance to go 163 km (88.0 nm)
RM	P	RM	1200	1800	6.00	0.0m	Position: 39° 19' 45" S , 142° 30' 54" E Distance travelled last 6hrs: 30 km (16.5 nm) Avg speed 2.8 kts Total distance travelled 266 km (143.90 nm) Total distance to go 131 km (71.0 nm)
RM	P	RM	1800	2400	6.00	0.0m	Position: 39° 02' 55" S , 142° 17' 19" E Distance travelled last 6hrs: 37 km (19.8 nm) Avg speed 3.30 kts Total distance travelled 303 km (163.7 nm) Total distance to go 95 km (51.5 nm) Bollard pull: 94-112 t ETA: 16:00hrs Wed 18th

Operations For Period 0000 Hrs to 0600 Hrs on 18 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	RM	0000	0600	6.00	0.0m	Position: 38° 47' 37" S , 142° 04' 05" E Distance travelled last 6hrs: 34 km (18.5 nm) Avg speed 3.10 kts Total distance travelled 203 km (182 nm) Total distance to go 61 km (33.0 nm) Bollard pull: 88-111 t ETA: 17:00 hrs Wed 18th

General Comments

Comments	Rig Requirements	Lessons Learnt
	Removal of the #2 anchor winch gypsy is 90% complete (wait on daylight to lift the gypsy out).	

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	0	131.0	Santos	4
Gel	MT	0	0	0	71.0	DOGC	50
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	0	0	0.0	BHI	2
Fuel	M3	0	6.5	1	249.9	Rheochem	1
Potable Water	M3	39	28	0	375.0	Dowell	2
Drill Water	M3	0	0	0	812.0	TMT	6
Helifuel	Litres	0	0	0	0.0	GO Offshore	1
KCl Brine	M3	0	0	0	0.0	Fugro	2
Mud	M3	0	0	0	0.0	SSI	6
						DOGC Service	2
						ECL	1
						Total	85

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	16 Jun 2008	1 Day	Abandonment drill completed after the fire drill. Completed full muster at lifeboat stations in 4 minutes.
Fire Drill		16 Jun 2008	1 Day	Simulated a fire at anchor winch #7 & #8 . All personnel accounted for at lifeboat stations when the fire alarm sounded. Muster complete within 10 minutes.
First Aid	1	16 Jun 2008	1 Day	A bundle of HWDP (3) was landed on the racks for BHA inspection. There was a gap between this bundle and the inspected joints in which the IP placed his foot so he could remove the tag line. The bundled pipe moved and rolled over his steel cap and onto his foot. The IP went to the Medic who placed the foot in a bucket of ice. Their was only slight swelling on the foot and the medic will monitor the condition overnight. The IP can place all his weight on the foot OK. At the time of the incident, the weather conditions and rig movement were minimal.
First Aid	1	17 Jun 2008	0 Days	While working from portable ladder at the 4 foot level IP began his descent to the rig floor. Employee's left foot slipped off the rung of the ladder causing IP to fall approximately 3 feet to the drill floor landing on his back and both elbows. Employee sustained a small cut to his right elbow, a small scratch to left elbow, and redness to his back from the fall. Cut to right elbow was cleaned and bandaged, employee returned to normal work duties.
JHA	27	17 Jun 2008	0 Days	Drill crew - 6 Deck crew - 11 Welder - 4 Elect - 0 Mech - 2 Subsea - 4
Lost Time Incident	1	30 May 2008	18 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	17 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring. Highlighted the incident lastnight with the crews with relation to a routine job causing an injury.
PTW Issued	16	17 Jun 2008	0 Days	8 x cold work permits 8 x hot work permits
Safety Meeting	3	15 Jun 2008	2 Days	Reviewed stop cards for the week and awarded Santos best stop card to Geoff Mathews. Safety topic: Hand Placements / Pinch Points. Hand awareness.
Santos Induction	8	17 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	52	17 Jun 2008	0 Days	28 - Safe 24 - Unsafe
STOP Tour	4	17 Jun 2008	0 Days	Supervisor STOP audits. 4 x Dodi.

Marine											
Weather check on 17 Jun 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	54km/h	20.0deg	1017.00bar	16.0C°	1.5m	20.0deg	3sec	1			
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2			
1.0deg	0.8deg	2.50m	1.5m	225.0deg	12sec			3			
Rig Dir.	Ris. Tension	VDL	Comments					4			
45.0deg	0.00mt	879.97mt	On tight tow @ 20:30hrs 16th June.					5			
								6			
								7			
								8			

Boats		Arrived (date/time)		Departed (date/time)		Status		Bulks		
Far Grip					Dockside Portland		Item		Unit	Quantity
							Fuel		m3	612
							Potable Water		m3	276
							Drill Water		m3	770
							Cement		mt	0
							HTB cement		mt	0
							Barite		mt	0
							Gel		mt	68
							KCl Brine		m3	8
Mud		m3	0							
Pacific Wrangler			20:30		Started tight tow to Portland @ 20:30hrs 15th June.		Item		Unit	Quantity
							Fuel		m3	276
							Potable Water		m3	185
							Drill Water		m3	88
							Cement		mt	45
							HTB cement		mt	0
							Barite		mt	108
							Gel		mt	0
							KCl Brine		m3	182
Mud		m3	249							
Helicopter Movement										
Flight #		Time		Destination		Comment			Pax	
BWJ		08:55		Wynyard					8	
BWJ		09:06		Jarver 1					6	

From : Peter Devine / Nathan Peri OIM : Rod Dotson						
Well Data						
Country	Australia	Measured Depth	3062.0m	Current Hole Size	311mm	
Field	Jarver	TVD	3062.0m	Casing OD	340mm	
Drill Contractor	DOGC	Progress	0.0m	Shoe MD	1942.0m	
Rig	Ocean Patriot	Days from spud	33.15	Shoe TVD	1942.0m	
Water Depth (LAT)	576.2m	Days on well	35.71	F.I.T. / L.O.T.	/ 1.55sg	Planned TD 3022.0m
RT-SL(LAT)	21.5m	Current Op @ 0600				
RT-ML	597.7m	Planned Op				
Rig Heading	45.0deg					

Summary of Period 0000 to 2400 Hrs

Continued tow towards Portland.
SOF's taken at 09:00hrs - change over point to Pecten East-1.
Position: 38° 38' 58" S, 141° 57' 09" E
Total Distance travelled: 356 km (192.44 nm).

Operations For Period 0000 Hrs to 2400 Hrs on 18 Jun 2008

Phse	Cls (RC)	Op	From	To	Hrs	Depth	Activity Description
RM	P	RM	0000	0600	6.00	0.0m	Position: 38° 47' 37" S , 142° 04' 05" E Distance travelled last 6hrs: 34 km (18.5 nm) Avg speed 3.10 kts Total distance travelled 203 km (182 nm) Total distance to go 61 km (33.0 nm) Bollard pull: 88-111 t ETA: 17:00 hrs Wed 18th
RM	P	RM	0600	0900	3.00	0.0m	Position: 38° 38' 58" S , 142° 57' 09" E Distance travelled last 3 hrs: 20 km (11.0 nm) Total distance travelled 356 km (192 nm) Total distance to go 42 km (22.81 nm) Note: Statement of facts taken at the way point above. (End of Jarver-1). Ocean Patriot: Fuel - 248 m³ Drill Water - 810 m³ Pot Water - 379 m³ Barite - 131 mt G Cement - 59 mt Gel - 71 mt Far Grip: Fuel - 395 m³ Drill Water - 770 m³ Pot Water - 287 m³ Barite - 0 mt G Cement - 0 mt Gel - 68 mt Pacific Wrangler: Fuel - 395 m³ Drill Water - 770 m³ Pot Water - 287 m³ Barite - 0 mt G Cement - 0 mt Gel - 68 mt Brine - 8 m³

Bulk Stocks						Personnel On Board	
Name	Unit	In	Used	Adjust	Balance	Company	Pax
Barite	MT	0	0	41	172.0	Santos	4
Gel	MT	0	0	0	71.0	DOGC	54
Cement	MT	0	0	0	59.0	ESS	8
HTB cement	MT	0	0	0	0.0	BHI	2
Fuel	M3	0	2	0	247.9	Rheochem	2
Potable Water	M3	0	8	0	367.0	Dowell	2
Drill Water	M3	0	0	82	894.0	TMT	6
Helifuel	Litres	0	0	0	0.0	GO Offshore	2
KCl Brine	M3	0	0	0	0.0	Fugro	2
Mud	M3	0	0	0	0.0	SSI	6
						DOGC Service	2
						ECL	1
						Total	91

Casing			
OD	L.O.T. / F.I.T.	Casing Shoe (MD/TVD)	Cementing
762mm	/	643.00/643.00	As per cement IDS report
508mm	1.37 /	1399.00/1399.00	As per cement IDS report.
340mm	1.55 /	1942.00/1942.00	As per cement IDS report

HSE Summary				
Events	Num Events	Date of Last	Days Since	Remarks
Abandon Drill	1	16 Jun 2008	2 Days	Abandonment drill completed after the fire drill. Completed full muster at lifeboat stations in 4 minutes.
Fire Drill		16 Jun 2008	2 Days	Simulated a fire at anchor winch #7 & #8 . All personnel accounted for at lifeboat stations when the fire alarm sounded. Muster complete within 10 minutes.
First Aid	1	16 Jun 2008	2 Days	A bundle of HWDP (3) was landed on the racks for BHA inspection. There was a gap between this bundle and the inspected joints in which the IP placed his foot so he could remove the tag line. The bundled pipe moved and rolled over his steel cap and onto his foot. The IP went to the Medic who placed the foot in a bucket of ice. Their was only slight swelling on the foot and the medic will monitor the condition overnight. The IP can place all his weight on the foot OK. At the time of the incident, the weather conditions and rig movement were minimal.
First Aid	1	17 Jun 2008	1 Day	While working from portable ladder at the 4 foot level IP began his descent to the rig floor. Employee's left foot slipped off the rung of the ladder causing IP to fall approximately 3 feet to the drill floor landing on his back and both elbows. Employee sustained a small cut to his right elbow, a small scratch to left elbow, and redness to his back from the fall. Cut to right elbow was cleaned and bandaged, employee returned to normal work duties.
JHA	20	18 Jun 2008	0 Days	Drill crew - 3 Deck crew - 8 Welder - 0 Elect - 3 Mech - 4 Subsea - 2
Lost Time Incident	1	30 May 2008	19 Days	Man had his left hand caught between a 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones).
Pre-Tour Meeting	4	18 Jun 2008	0 Days	Discussed upcoming operations and the new hazards they bring. Highlighted the incident lastnight with the crews with relation to a routine job causing an injury.
PTW Issued	16	18 Jun 2008	0 Days	10 x cold work permits 6 x hot work permits
Safety Meeting	3	15 Jun 2008	3 Days	Reviewed stop cards for the week and awarded Santos best stop card to Geoff Mathews. Safety topic: Hand Placements / Pinch Points. Hand awareness.
Santos Induction	6	18 Jun 2008	0 Days	Held Santos inductions for those personnel new to the rig.
Stop Observations	38	18 Jun 2008	0 Days	25 - Safe 13 - Unsafe
STOP Tour	2	18 Jun 2008	0 Days	Supervisor STOP audits. 2 x Santos

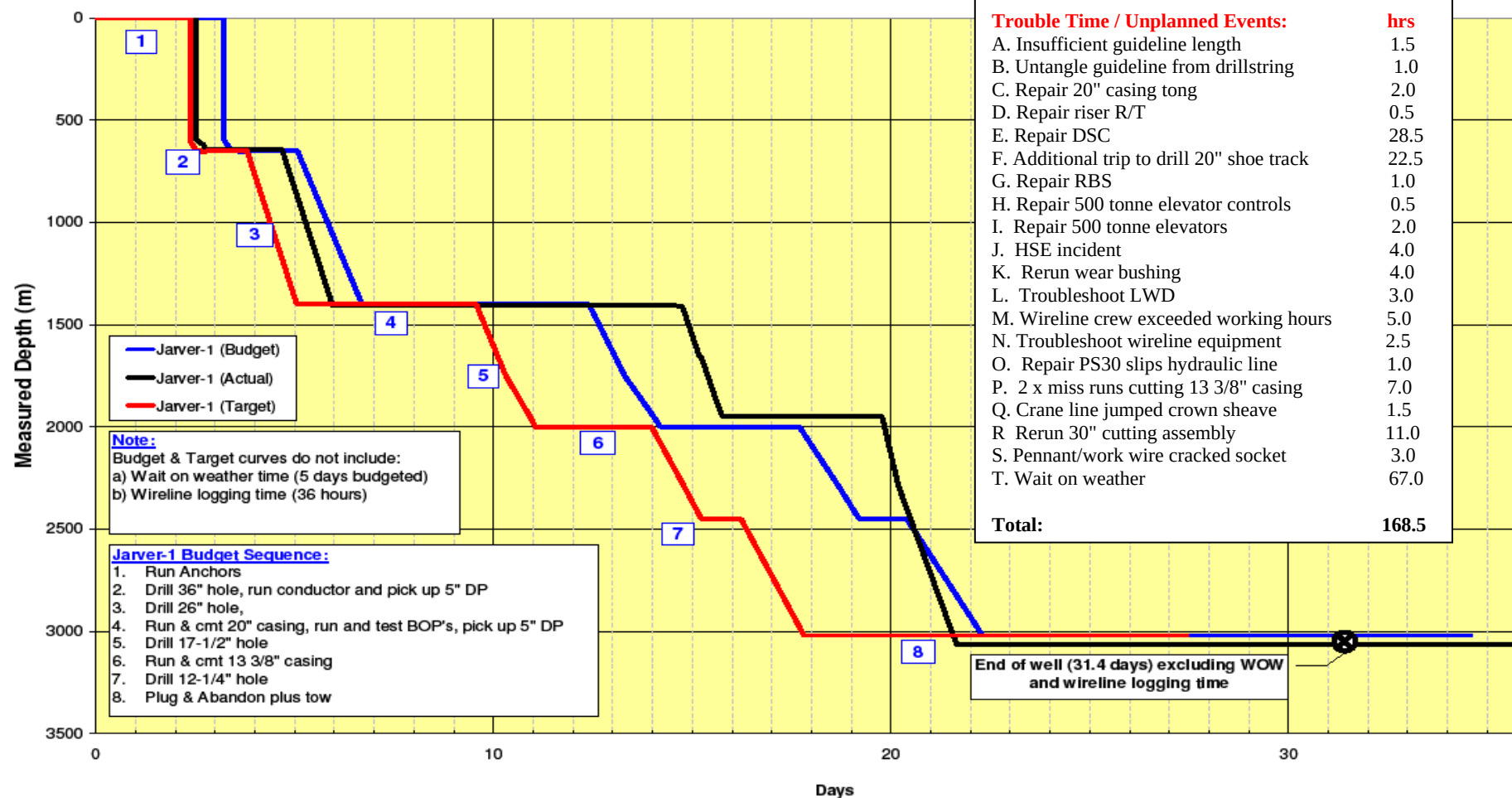
Marine											
Weather check on 18 Jun 2008 at 23:59								Rig Support			
Visibility	Wind Speed	Wind Dir.	Pressure	Air Temp.	Wave Height	Wave Dir.	Wave Period	Anchors	Chain out (m)	Tension (mt)	
18.5km	54km/h	20.0deg	1017.00bar	16.0C°	1.5m	20.0deg	3sec	1			
Roll	Pitch	Heave	Swell Height	Swell Dir.	Swell Period	Weather Comments		2			
1.0deg	0.8deg	2.50m	1.5m	225.0deg	12sec			3			
Rig Dir.	Ris. Tension	VDL	Comments					4			
45.0deg	0.00mt	879.97mt	On tight tow @ 20:30hrs 16th June.					5			
								6			
								7			
								8			

Boats	Arrived (date/time)	Departed (date/time)	Status	Bulks		
Far Grip			Dockside Portland. Statement Of Facts figures for Jarver-1 to Pecten East-1 change over.	Item	Unit	Quantity
				Fuel	m3	395
				Potable Water	m3	287
				Drill Water	m3	770
				Cement	mt	0
				HTB cement	mt	0
				Barite	mt	0
				Gel	mt	68
				KCl Brine	m3	8
Mud	m3	0				
Pacific Wrangler	09:00hrs 18/06/08		Tight tow to Portland. Statement Of Facts figures for Jarver-1 to Pecten East-1 change over.	Item	Unit	Quantity
				Fuel	m3	259.5
				Potable Water	m3	183
				Drill Water	m3	88
				Cement	mt	44.5
				HTB cement	mt	0
				Barite	mt	108
				Gel	mt	0
				KCl Brine	m3	182
Mud	m3	249				
Helicopter Movement						
Flight #	Time	Destination	Comment	Pax		
N/A			Helicopter flight has been recorded on Pecten East-1.			

SECTION 6 : TIME / DEPTH CURVE

TIME VS DEPTH CURVE

Jarver-1 Time v Depth Curve



SECTION 7 : BHA SUMMARY

Bit Run Summaries

Jarver – 1

914mm (36") Hole Section 16th May 2008

Bit Run 1 Summary

Bit Number	NB1
Bit Size	914mm (36")
Bit Type	Varel – Rock bit 111
S/N	742636
Jets	4 x 32
Depth In (m)	598
Depth Out (m)	645
Metres Drilled	47
Drilling Hours	5.1
TBR (krevs)	25.1
Circulating Hours	4.7
Average ROP (m/hr)	9.2
API Condition	O-O-NO-A-O-I-O-TD

Drilling Parameters

WOB (klbs)	0	-	18
RPM	32	-	89
Torque (kft-lbs)	2	-	10
Flow In (gpm)	405	-	570
Pump Pressure (psi)	285	-	465

Mud System

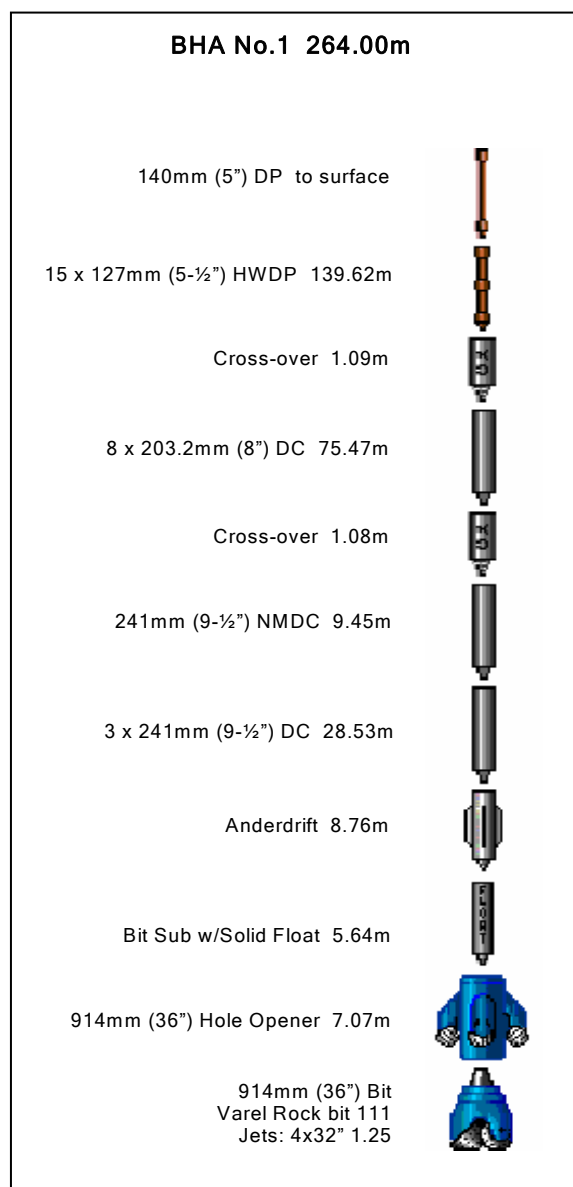
Sea water & hi-vis sweeps 1.04sg

Lithology

Returns to seabed.

Drilling Summary

Jarver-1 was spudded at 05:30hrs on 16th May 2008 at 598m. Drilling of the 914mm (36") hole, with a 914mm (36") hole opener, commenced and continued to 645m. The section was drilled with seawater and PHG sweeps, with returns going to seabed. At 645m, section TD, the well was circulated and 100bbls of PHG sweeps were pumped before pulling out of hole for the 762mm (30") conductor run.



660mm (26") Hole Section 18th – 19th May 2008

Bit Run 2 Summary

Bit Number	NB2
Bit Size	660mm (20")
Bit Type	Smith Mill
S/N	MZ6452
Jets	4 x 24
Depth In (m)	645
Depth Out (m)	1407
Metres Drilled (m)	762
Drilling Hours	23.2
TBR (krevs)	165.55
Circulating Hours	30.4
Average ROP (m/hr)	32.84
API Condition	1-1-WT-A-0-I-NO-TD

Drilling Parameters

WOB (klbs)	0	-	31
RPM	35	-	181
Torque (kft-lbs)	0	-	10.37
Flow In (gpm)	520	-	1230
Pump Pressure (psi)	660	-	3430

Mud System

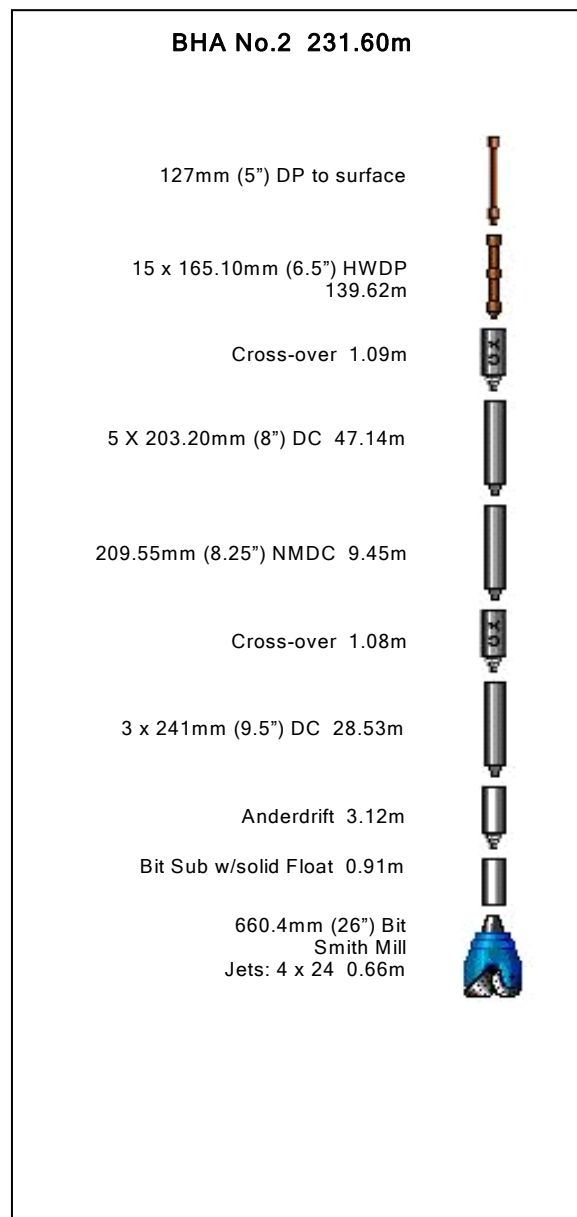
Seawater and PHG sweeps	1.03sg

Lithology

Returns to seabed.

Drilling Summary

NB2 was run in the hole, tagged the top of cement at 638.5m, and drilled out the cement and shoe to 645m. Drilling of new formation then proceeded from 645m to 1407m. At section TD the hole was circulated clean and was displaced to mud with a total of 1300bbls Seawater and PHG being pumped. The BHA was then POOH.



444.5mm (17.5") Hole Section 28th – 29th May 2008

Bit Run 3 Summary

Bit Number	4
Bit Size	17-½"
Bit Type	Hughes MZL-TIV
S/N	6064631
Jets	2x24, 1x15, 1x14
Depth In (m)	1407
Depth Out (m)	1947
Metres Drilled (m)	540
Drilling Hours	17.9
TBR (krevs)	112.6
Circulating Hours	43.9
Average ROP (m/hr)	30.2
API Condition	0-1-CT-GI-E-I-ER-TD

Drilling Parameters

WOB (klbs)	1	-	34
RPM	0	-	260
Torque (kft-lbs)	0	-	19
Flow In (gpm)	590	-	970
Pump Pressure (psi)	710	-	2950

Mud System

KGLY	1.08sg

Lithology

Claystone, Siltstone and Sandstone.

Drilling Summary

NB4 was run in the hole and drilled out the shoe track and 3m new formation was drilled from 1385m to 1410m with 9.0 ppg KGLY mud system. Bottoms up was circulated from 1410m at 1100 gpm/ 3000psi. An LOT was performed inside the shoe with 11.4ppg EMW. The 445mm (17.5") hole drilling commenced from 1410m to section TD at 1947m. No formation gas was monitored while drilling this hole. Surveys were taken after each connection and each stand was backreaming prior to connection. Flow rate was reduced (600-940 gpm) to minimize losses at the shakers. At TD, bottoms-up was circulated, a flow Check was performed and the hole was observed as static. The Drill string was pulled out of hole from bottom to 1803m, and a 25bbl slug was pumped. Another Flow Check was performed inside the shoe, again it was observed as static. The Drill string was then pulled out of hole to surface. At surface, the BHA was broken down and laid out. Then the 244mm (13-3/8") casing run was prepared for.

BHA No. 3 279.02m

127mm (5") DP to surface	
15 x 165.10mm (6.5") HMDP 139.62m	
Cross-over 1.09m	
2 x 203.2mm (8") DC 18.9m	
Drilling Jar 9.59m	
8 x 203.2mm (8") DC 75.47m	
2 x 209mm (8 ¼") NMDC 9.46m	
438.15mm (17.25") Stabiliser 1.85m	
Cross-over 0.44m	
Upper Saver Sub 0.47m	
Telescope HF 7.56m	
Lower Saver Sub 0.37m	
ARC-8 5.53m	
Lower Saver Sub 0.38m	
438.15mm (17.25") Stabiliser 2.01m	
Pony Collar 4.03m	
NB Stab w/Float 1.83m	
444.5mm (17.5") Bit Hughes MXL-TIV Jets: 2x24, 1x15, 1x14c 0.41m	

311mm (12 1/4") Hole Section 2nd June – 4th June 2008

Bit Run 5 Summary

Bit Number	NB5
Bit Size	311mm (12 1/4")
Bit Type	Hughes HC506ZX
S/N	7012701
Jets	6X16
Depth In, m	1947
Depth Out, m	3062
Meters Drilled	1115
Drilling Hours	28.5
TBR, krevs	334.8
Circulating Hours	49.2
Average ROP m/hr	39.12
API Condition	1-1-WT-S-X-I-NO-TD

Drilling Parameters

WOB (klbs)	1	-	36
RPM (Surf/Bit)	1/165	-	111/260
Torque (kft-lbs)	1	-	26
Flow In (gpm)	530	-	955
Pump Pressure (psi)	1840	-	4300

Mud System

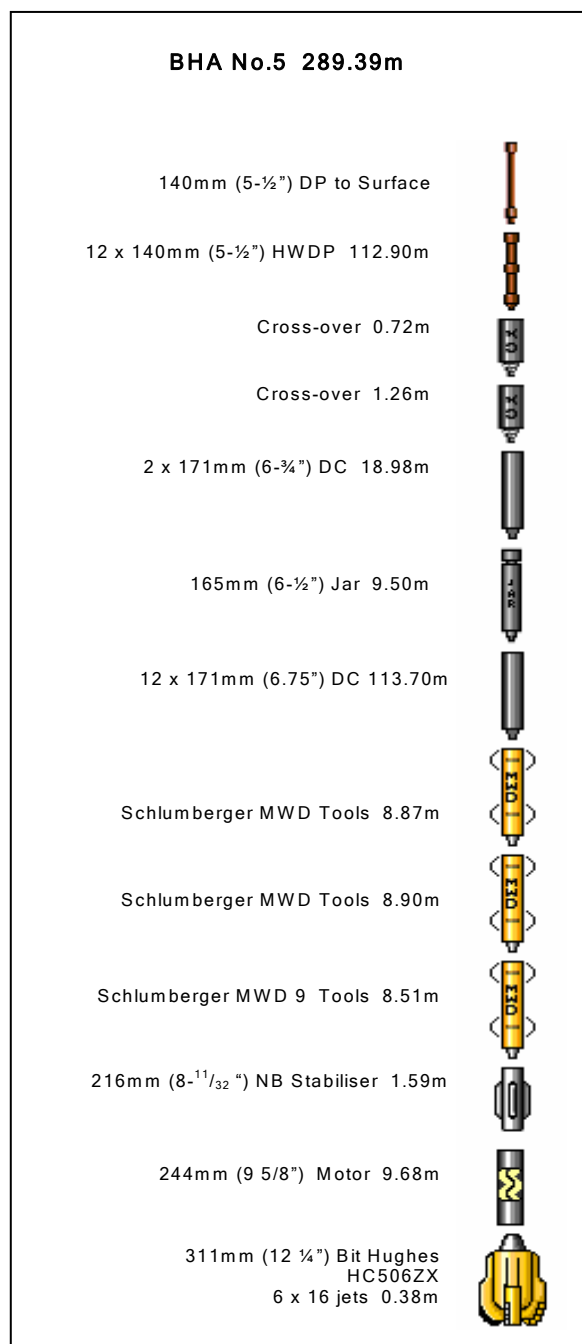
KGLY 1.25sg

Lithology

Claystone, Siltstone and sandstone

Drilling Summary

NB5 was made up to a motor, MWD assemblies and a 311mm (12 1/4") PDC bit. It was shallow tested before being run in the hole. Top of cement was tagged at 1931m. The cement, float, shoe track and 3m new formation was drilled out from 1931m to 1950m. Bottoms-up was circulated from 1950m. No gas was observed. An LOT was performed at 12.9ppg EMW before continuing to drill ahead. The 12 1/4" hole section was drilled smoothly until TD at 3062m. No significant formation gas was recorded. At TD, bottoms-up was circulated. A Flow Check was performed, it was observed as static. A 30bbl slug was pumped prior pulling out of hole. The drill string was pulled out of hole on elevator from bottom to the shoe at 1930m. A flow Check was performed, and it was observed as static. The BHA was pulled out of hole to surface. At surface, the BHA was laid out and racked back. MWD radioactive sources were loaded. A total of 34bbl mud loss was recorded for the 12 hour trip. The bit was graded and prepared to run in the hole for Schlumberger Wireline Logs.



BHA Data Sheet

Santos - Jarver-1

BHA #	12-1/4"#1 Motor-ARC-MWD-SON-ADN8-Pr	Date	May 31, 2008
Field	Santos/Jarver	Well	Jarver-1
Structure	Jarver-1	Borehole	Jarver 1

Item	Name	Vendor/ Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	12 1/4 " Bit	Hughes Christense	7012701		8.00	12.25		0.38	0.38
		HC506ZX			3.25		6.63 Reg Pin		
2	A962M7848GT	Schlumberger	06259		9.63	12.25	6.63 Reg Box	9.68	10.06
		A962M7848GT			2.25		6.63 Reg Box		
3	Float Sub	Schlumberger	WFD2316		8.25	8.25	6.63 Reg Pin	0.92	10.98
	w/ non-ported float valve				3.50		6.63 Reg Box		
4	12 1/4" Stabilizer	Schlumberger	OSS061107	8.19	8.25	12.25	6.63 Reg Pin	2.45	13.43
				1.00	2.88		6.63 Reg Box		
5	Lower Saver Sub	Schlumberger	ASQ8008		8.25	8.25	6.63 Reg Pin	0.38	13.81
					3.00		6.63 FH Pin		
6	ARC-8	Schlumberger	2724		8.13	9.10	6.63 FH Box	5.53	19.34
		ARC-8			3.00		6.63 FH Box		
7	Lower Saver Sub	Schlumberger	SB03181		8.25	12.13	6.63 FH Pin	0.37	19.71
					3.00		6.63 FH Box		
8	TeleScope HF	Schlumberger	FB46		8.25	8.41	6.63 FH Pin	7.56	27.27
	600 - 1200 GPM	TeleScope HF			2.88		6.63 FH Box		
9	Upper Saver Sub	Schlumberger	OSS060087C		8.25	8.25	6.63 FH Pin	0.47	27.74
					3.00		6.63 FH Pin		
10	sonicVISION 825	Schlumberger	FE75	8.38	8.38	12.00	6.63 FH Box	7.76	35.50
		sonicVISION 825		1.32	4.25		6.63 FH Box		
11	Upper Saver Sub	Schlumberger	ASQ8013		8.38	8.44	6.63 FH Pin	0.34	35.84
					4.75		6.63 FH Pin		
12	ADN-8 w/ 12" Stab	Schlumberger	42730	8.38	8.38	12.00	6.63 FH Box	6.36	42.20
		ADN-8 w/ 12" Stab		2.10	3.50		6.63 FH Box		
13	Upper Saver Sub	Schlumberger	2986	8.25	8.38	8.38	6.63 FH Pin	2.51	44.71
				2.06	3.50		6.63 Reg Box		
14	8" Drill Collar (8 joints)	RIG			8.00	8.00	6.63 Reg Pin	75.47	120.18
					2.88		6.63 Reg Box		
15	Drilling Jar	Smith International	489070		8.25	8.25	6.63 Reg Pin	9.59	129.77
		Hydraulic			3.00		6.63 Reg Box		
16	8" Drill Collar (2 joints)	RIG			8.00	8.00	6.63 Reg Pin	18.91	148.68
					2.88		6.63 Reg Box		
17	Crossover	Rig	GVD12204		8.13	8.13	6.63 Reg Pin	1.09	149.77
	6 5/8" Reg Pin to 4 1/2" IF Box				3.00		4.50 IF Box		
18	5" HWDP (15 joints)	RIG			6.25	6.63	4.50 IF Pin	139.62	289.39
					3.00		4.50 IF Box		
19	5" 19.50 S-135	RIG			5.00	6.63	4.50 IF Pin	10.00	299.39
	5.19.5,Premium S135				4.28		4.50 IF Box		
						Total Weight (lbf)	94902	Total Len.	299.39
						Below Jar (lbf)	59120.0		

BHA Comments:	

Stabilizer	
Blade Length (m)	Mid-Pt. To Bit (m)
0.28	1.28
0.60	12.10
0.35	28.10
0.95	37.09
1.06	39.37
	Bend To Bottom
Bent Housing Angle (deg)	Connection (m)

Sensor	
Type	Distance To Bit (m)
Resistivity	16.20
Gamma Ra	16.28
D&I	23.78
Sonic	32.88
Density	38.76
Neutron	40.97

Bit Nozzles	
Count	Size(1/32 in)
6	16.00
TFA (in2)	1.18
Quality Control	
Created By:	Daniel Priestley
Checked By:	

Santos

Santos
Jarver-1
Jarver-1
Santos/Jarver
Jarver 1

12-1/4"#1 Motor-ARC-MWD-SON-ADN8-Primary BHA

BHA DESCRIPTION

ELEMENT	LENGTH (m)	OD (in)	ID (in)	MAX OD (in)
12 1/4 " Bit	0.38	12.25	3.25	12.25
A962M7848GT	9.68	9.63	2.25	12.25
Float Sub	0.92	8.25	3.50	8.25
12 1/4" Stabilizer	2.45	8.25	2.88	12.25
Lower Saver Sub	0.38	8.25	3.00	8.25
ARC-8	5.53	8.13	3.00	9.10
Lower Saver Sub	0.37	8.25	3.00	12.13
TeleScope HF	7.56	8.25	2.88	8.41
Upper Saver Sub	0.47	8.25	3.00	8.25
sonicVISION 825	7.76	8.38	4.25	12.00
Upper Saver Sub	0.34	8.38	4.75	8.44
ADN-8 w/ 12" Stab	6.36	8.38	3.50	12.00
Upper Saver Sub	2.51	8.38	3.50	8.38
8" Drill Collar (8 joints)	75.47	8.00	2.88	8.00
Drilling Jar	9.59	8.25	3.00	8.25
8" Drill Collar (2 joints)	18.91	8.00	2.88	8.00
Crossover	1.09	8.13	3.00	8.13
5" HWDP (15 joints)	139.62	6.25	3.00	6.63
5" 19.50 S-135	10.00	5.00	4.28	6.63

DRILLING OVERVIEW

Depth in:	1947.00 m	Depth out:	3062.00 m
Inclination in:	0.40°	To:	0.42°
Direction in:	341.32°	To:	309.92°
Total Drilled	1115.00 m	Dogleg:	0.25

Cum. Len. (m)

5" 19.50 S-135

289.39

5" HWDP (15 joints)

289.39

Crossover

149.77

8" Drill Collar (2 joints)

148.68

Drilling Jar

129.77

8" Drill Collar (8 joints)

120.18

Upper Saver Sub

44.71

ADN-8 w/ 12" Stab

42.20

Upper Saver Sub

35.84

sonicVISION 825

35.50

Upper Saver Sub

27.74

TeleScope HF

27.27

Lower Saver Sub

19.71

ARC-8

19.34

Lower Saver Sub

13.81

12 1/4" Stabilizer

13.43

Float Sub

10.98

A962M7848GT

10.06

12 1/4 " Bit

0.38

Schlumberger

Quality Control

Created by: Daniel Priestle Date:

6/5/2008

Checked by:

Date:

SECTION 8 : BIT RECORD & PERFORMANCE SUMMARY

BIT SUMMARY

OPERATOR				Santos Ltd				WELL NAME				Jarver - 1				LOCATION				T/33P				CONTRACTOR								Diamond Offshore General Company				RIG		Ocean Patriot									
BAKER HUGHES Santos INTEQ				Mud Pump Data				All Sections 165mm (6.0") Liners, 105mm (12") Stroke 97% Eff 0.1018bbl/stk				BIT DULL CHARACTERISTICS												REASONS PULLED																							
												IC - Broken Cone				CI - Cone Interference				JD - Junk Damage				PB - Pinched Bit				SS - Self Sharpening				Brk - Bottomhole Assembly				LOG - Run Logs				FM - Formation Change				TD - Total / Cig depth			
												BT - Broken Teeth				CR - Cored				LC - Lost Cone				PN - Plugged Nozzle				TR - Tracking				DMF - Downhole Motor failure				RIG - Rig repair				HP - Hole Problems				TQ - Torque			
												BU - Balled Up				CT - Chipped Teeth				LN - Lost Nozzle				RG - Rounded Gauge				WO - Washed-Out Bit				DSF - Drill String failure				CM - Condition Mud				HR - Hours				TW - Twist Off			
CC - Cracked Cone				FC - Flat Crested Wear				LT - Lost Teeth				RO - Ring Out				WT - Worn Teeth				DST - Drill Stem Test				CP - Core Point				PP - Pump Pressure				WC - Weather Conditions															
CD - Cone Dragged				HC - Heat Checking				OC - Off-Center Wear				SD - Shearbit Damage				NO - No Dull Characs.				DST - Downhole Tool Failure				DP - Drill Plug				PR - Penetration rate				WD - Washout, Drill String															
BHA #	BIT No.	MAKE	TYPE	TFA sq.in.	JETS	SERIAL No.	DEPTH IN m	METRES ON BIT	HRS ON BOTTOM	AV ROP m/hr	IADC HRS	WOB klb	RPM Surf/Bit	TBR krev	SPP psi	FLOW IN gpm	TQ kft-lb	GRADE										MW SG	REMARKS																		
																		I	O	D	L	B	G	O	R																						
Jarver - 1																																															
914mm (36") Hole Section 598m - 645m																																															
1	NB1	Varel	111	3.1416	4x32	742636	598.0	47.0	5.1	9.2	5.10	4	88 / -	25.1	450	550	2.80	0	0	NO	A	0	I	NO	TD	SW (1.04)	Drill with 36" hole opener																				
660mm (26") Hole Section 645m - 1407m																																															
2	NB2	Smith	Mill	1.7671	4 x 24	MZ6452	645.0	402.0	23.2	32.8	23.20	12	120 / -	165.5	2478	1120	7.60	1	1	WT	A	0	I	NO	TD	SW (1.04)	Drill with 26" hole section																				
444mm (17-1/2") Hole Section 1407 - 1947m																																															
4	NB4	Hughes	MXL-TIV	1.2065	2x24, 1x15, 1x14	6064631	1407.0	540.0	17.9	30.2	23.00	1-34	0-260/ 0-260	112.6	710-2950	590-970	0-19	0	1	CT	G1	E	I	ER	TD	KGLY (1.08)	Drill with 17.5" hole section																				
311mm (12 1/4") Hole Section 1407 - 1947m																																															
4	NB5	Hughes	HC506ZX	1.1785	6X16	7012701	1947.0	1114.8	28.5	39.1	46.00	1-36	1-165/ 111-262	334.8	1840-4300	530-955	1-26	1	1	WT	S	X	I	NO	TD	KGLY (1.25)	Drill with 12.25" hole section																				

NOTE: Bit run number = BHA number ; NB = New Bit RB = Rerun Bit PDM = Downhole Motor A = Adjustable Gauge Stabilizer M = FEWD / MWD tools

SECTION 9 : DRILLING FLUIDS REPORT

DRILLING FLUID SUMMARY

Well: Jarver -1

T/33P

Sorell Basin

Tasmania



Well Start Date: 13th March, 2008

Well Spud Date: 16th May, 2008

Mud Engineers: Kellie Jericho, Carissa Thompson, Christian Dimarco

Prepared By (Rheochem)	Paul Baker	
Approved By (Santos)	Patrick Tomkins	

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

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Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

1. SUMMARY OF OPERATIONS

Jarver-1 was a vertical frontier wildcat well designed to test the hydrocarbon potential of a 4-way dip closure with the top seal provided by the Belfast Mudstone.

The planned TD for the well was 3,421.5 metres RT TVD, with the primary target being the Belfast formation and secondary target being the Paaratte formation.

The well was drilled by Diamond Offshore General Company's semi-submersible rig, Ocean Patriot which was positioned on the Jarver-1 location on 13th March 2008.

The well was spudded at 05:30 hrs on 16th May 2008.

The first section was a 36" hole and second section 26" hole was drilled using sea water and used Prehydrated Bentonite and Guar Gum fluid to sweep hole clean. The 30 inch casing and 20 inch casing were set at 642 metres and 1,399 metres respectively.

The 17 ½" and 12 ¼" hole sections were drilled to 1,947 meters and 3,061.8 metres, respectively, using KCL/Glycol/PHPA mud. The maximum mud weight used was 10.4 - 10.5 ppg. The 13 3/8 inch casing was set at 1,942 metres.

Total Depth (3061.8 metres MD/TVD) was reached at 11.00 hrs on the 4th of June 2008. No significant hydrocarbons were found. However a decision was made to run wireline logs to provide extra geological data in the area.

After the wireline logs were conducted, three balanced cement abandonment plugs were set; Plug #1 3,060-2,755 m, Plug #2 1,996-1,846 m and Plug #3 700-630 m.

The rig then pulled anchors and moved location to Portland where the rig underwent some maintenance work and two heavy lift operations were carried out before moving to the next well Pecten East-1.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

2. INTERVAL DISCUSSIONS

36" Hole Section

HOLE SIZE : 36"
MUD TYPE : Seawater / Pre-Hydrated Gel Sweeps
INTERVAL : 597 – 645 m
CASING : 30" set at 642 m

Before spudding the 36" section 224bbl 10.0ppg PHB Kill Mud was prepared as a precaution, as required by the Diamond Offshore shallow gas procedure.

This section was drilled with a 26" bit / 36" hole opener assembly from seabed (597 metres RT) to T.D. at 645 metres. The first single was drilled with high viscosity pre-hydrated bentonite (+/- 27-30 ppb) prior to switching to seawater. 50 bbls PHB sweeps were pumped every single and 100 bbls was spotted over the BHA prior to connections.

At section TD a wiper trip was conducted as per procedure and the well was displaced with a further 366 bbl of PHB.

A total of 881 bbl of 27-30 ppb PHB was used during the drilling of this section, both for sweeps and during the displacement.

The conductor was run and cemented without problems.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

26" Hole Section

HOLE SIZE : 26"
MUD TYPE : Seawater / Pre-Hydrated Gel Sweeps
INTERVAL : 642 – 1407 m
CASING : 20" set at 1,399 m

Before beginning to drill the 26" section, 224 bbls 10.0ppg PHB Kill Mud (unused from the 36" section) was available as per the Diamond Offshore shallow gas procedure.

A 26" assembly WITH a Smith Mill bit was RIH and cement tagged at 642 metres. The shoe was drilled out to a depth of 662 metres with seawater. Drilling continued with a seawater and sweep regime of 75 bbls (2.5-3.0ppb) Guar Gum/Seawater mid-stand and 75 bbls PHB (23-30ppb) on connections.

Due to rough weather conditions during drilling the section, no drill water was able to be taken onboard the rig. Therefore Guar Gum was used as mid-stand sweeps to conserve the drill water supply for the TD Displacement volume. This 75 bbls sweep regime proved adequate and the hole continued to clean well to section TD.

A total of 3,137 bbl of PHB and 2,137 bbls Guar Gum was used as sweeps throughout drilling the section. At section TD a 200 bbl 10.0ppg PHB sweep (unused Kill Mud) was pumped and circulated out of the hole with seawater.

The displacement of the hole to PHB followed in two stages due to pit capacity available on the rig. The first stage of displacement involved pumping 1,181bbl PHB, along with a 60bbl 4.5% KCL/PHB Pill spotted on bottom. The entire pit capacity was then rebuilt with 25-27ppb PHB for the second stage of displacement.

While preparing the mud, the drilling assembly was POOH to inside the casing shoe where circulation was broken with seawater. After RIH to 1,035 metres, the well was displaced with the remaining 1,468bbls PHB.

Total displacement volume PHB was 2,709 bbs, allowing for a >50% excess hole volume. A remaining 280bbl PHB (with additional dead volume) was available in the pits after displacement, to be pumped as required. A total of 230 bbls was transferred to the next section to be used for the Hi Vis sweep ahead of displacing the well with KCL/Glycol mud.

The casing was run and cemented without problems.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

17¹/₂" Hole Section

HOLE SIZE : 17 1/2"
MUD TYPE : KCl / Polymer / Glycol
INTERVAL : 1,407 – 1,947 m
CASING : 13 3/8" set at 1,942m

Brine Received: A initial volume of 1,350bbls (760 bbls with NaCl) of 9.55ppg Brine with 16 % KCL, 6 % Glycol and 16% (62.5ppb) NaCl, 0.2ppb Caustic Soda, 0.2ppb Sodium Sulphite and 0.2ppb Idcide-20 was received from the mud plant in Portland and was put into the pits 1, 2, 3, 4, 5, Solids Control and Sand Trap.

After the first loadout of Brine, stock supplies on the rig were maintained with an additional supply for the Portland LMP via the Pacific Wrangler with NaCl omitted from the concentration. Brine volume was cut back, as required to uphold 8% KCL in the active mud system.

An initial volume of 950 bbls of KCL/NaCl/Glycol/PHPA mud with concentrations; 1.0 ppb Drispac SL, 1.3 ppb Flowzan, 0.5 ppb JK-261 LV, was prepared in Pits 4 and 5. Analysis of the properties of the corresponding mud indicated the freshly built mud was below specification in Fluid Loss Control and 6 rpm. This being so, the Drispac SL and Flowzan concentrations were increased to 1.5ppb and 1.8ppb respectively. Reanalysis of the fluid indicated the properties still fell short of the specifications, but it was decided that once the fluid had the opportunity to go through the bit and shear, the properties would be reassessed and treated accordingly.

Due to a combination of limited pit capacities, as a result of no bulk brine storage facilities, and high displacement volumes (due to the deep water), it was necessary to complete a three step displacement to displace the well to KCl/Glycol/PHPA mud. After thorough consideration, a decision was made to blend 230 bbls PHB (27ppb) and 230 bbls Neat (16%) KCL/Glycol Brine with the 950 bbls new mud previously built to increase the available volume pumpable for initial displacement, therefore reducing mixing time in the critical path.

A 17¹/₂" drilling assembly, with Hughes Fastmat bit was RIH and cement tagged at 1,381 metres. Sea water was not used to drill out the cement, and after tagging TOC the well displacement commenced. No hi-vis spacer was pumped, and the well was displaced with 1,529 bbls of new mud, which provided a clean interface at surface.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

17¹/₂" Hole Section (continued)

To provide adequate volume during the displacement, 800bbl of new mud was mixed when pit space became available.

Drilling ahead was attempted, but due to lack of penetration through the float collar the decision was made for a bit trip. The bit revealed extensive damage when retrieved, and was replaced with 17 ¹/₂" Hughes Fastmat bit.

The new assembly was RIH and drilled ahead through float collars and shoe track, at which the mud was treated with an initial 0.25ppb treatment of Sodium Bicarbonate and Citric Acid to mitigate cement contamination and further treatments were required as drilling progressed. 3 meters of new formation was drilled to 1,410 metres. An LOT was performed with EMW - 11.4ppg.

To minimize mud losses once displaced to KCL/GLY/PHPA mud, the shakers were dressed with 84 mesh screens on the bottoms, and 10 mesh screens on top of all shale shakers.

Losses were observed over shakers due to a combination blinding of the screens from fine silt/sandstone formation and low temperatures of the mud at FL and BHT (78°F and 84°F respectively). The addition to active of JK-261 LV and Flowzan also appeared to exacerbate the losses.

Due to severe losses at the shakers, the rig pump rate was less than programmed, which ranged from 590gpm to 950gpm throughout the section. Losses at the shakers continued while drilling, and were tolerated by DSV.

Continued drilling ahead to 1,947 metres (section TD), circulate hole clean. POOH slick, with no observations of over pull.

The 13-³/₈" casing was picked up and ran without problem to 1,942m shoe depth. Cementers pumped 50bbls Seawater lead spacer, 308bbls 12.5ppg Lead "G" cement Slurry, 112bbl 15.8ppg "G" cement Tail Slurry, and 40bbls Seawater behind. The displacement fluid was 650bbls of mud from the active pits.

A total of 1,306bbls (as an average was 2.4 bbls lost per metre). A total of 1,867bbls mud was lost/ discharged for this section.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

Mud Properties

Mud Weight

Mud weight at the start of the section was 9.0ppg. A mud weight of 9.0ppg was programmed for LOT, and then 9.5ppg by sectional TD however, the Drilling Supervisor advised that weighing the active system up to 9.5ppg was not required.

At 1,550 metres the mud weight gradually increased from 9.0ppg to 9.35ppg (LGS 3.9%) due to solids invasion from the 84-mesh screens. Due to excessive losses over the shaker it proved difficult to screen up, where several attempts to install 165-200 mesh and were unsuccessful when extreme losses over the shakers were incurred to more than 80 bbls per hour, therefore 84-mesh screens were utilised for the majority of the section.

After discussion with the Company man, it was agreed to operate the 2x 518 FVS centrifuges for the remainder of the section. The mud weight reached a maximum of 9.5ppg and LGS at 4.4%, which was with held, then eventually reduced and stabilised at 9.4ppg by section TD with the utilisation of the 2 centrifuges and dilution of new premix due to heavy losses (LGS 4.1%).

Fluid Loss

Fluid loss prior to displacement was 14 ml/30mins with the new mud built at the rig site. 1.5ppb Drispac SL in the initial displacement fluid, in conjunction with the natural solids accumulation from drilling, facilitated API LPLT to reduce to 8.0cc/30 minutes. While drilling, premixes mud with 1.0-1.5 ppb Drispac LV further reduced fluid loss to 5.5 cc/30 minutes by section TD.

Rheology

The 6rpm reading and yield point was closely monitored and controlled by additions of Flowzan. Prior to displacement the 6rpm was 12 lb/100ft² and whilst drilling varied between 10–14 lb/100ft². Yield point value was very stable in range 29–35 lb/100 ft²). A 50 bbl Hi-vis sweep pumped at 1,860 metres indicated no increase in cuttings conveyance when circulated to surface. Good hole cleaning was observed throughout this section.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

Rheology (Continued)

On several occasions mud sampled from the flow-line was rheology tested at ambient flow-line temperatures; typically at 74°F to 78°F. The 6rpm and yield point at the flowline temperature was 13-15 lb/100ft² and 35-43 lb/100ft², respectively.

KCl Content

The KCl concentration of the concentrate brine from the LMP was 16% and this was cut back with drill-water with a 1:1 ratio in premixes to give a KCl content of 8%. The KCl concentration was monitored and remained stable at 8.0% with no signs of depletion throughout the section.

PHPA Content

To minimize mud losses over the shakers during displacement, the fresh mud was built with 0.5 ppb PHPA. There is no means of shearing the PHPA mud prior to displacement other than shearing hoppers and mix lines on the Ocean Patriot.

New mud prepared for the displacement volume was circulated through the mix hoppers for an extended period to help shear whilst work was carried out on motion compensator (>24hours).

The PHPA concentration was maintained by bleeding in a 1.5ppb PHPA premix to the active system whilst drilling. Due to the extremely wet losses over the shakers it was difficult to increase the PHPA concentration above 0.7ppb. Cuttings were observed to be adequately encapsulated and presented little dispersion.

Glycol Content

The Glycol concentration of the concentrate brine was 6% and this was cut back with drill water in premixes to give a Glycol content of 3%. The concentration of Glycol was maintained at 3 % in the active system by providing additions from fresh premixes containing 3% Glychem MC.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

Solids Control Equipment

4 x BEM-650 MI SWACO Shale Shakers were installed on the Ocean Patriot (one of which had been newly replaced), along with 2 x 518 FVS MI SWACO centrifuges.

The shale shakers were dressed with 4x84 (API60) mesh on all 4 shakers, for drilling out cement and displacement to minimize KCL/Glycol/PHPA mud losses.

The initial circulation of mud caused heavy losses at the shakers due to unsheared new KCL/GLYCOL/PHPA/Polymer mud therefore it was required to temporarily dress the front of all shakers with size 10 scalper screens, to prevent excess losses while PHPA was shearing naturally through the bit.

As drilling progressed the screen-up proved very difficult although 165 and 200 mesh (API 80/100 respectively), was attempted throughout the section. Attempts at running with finer screens were unsuccessful due to excessive losses over the shakers, therefore 84-mesh were utilised to for the entire 17 ½" section.

The top scalpings on the shakers were dressed to 10, 20, 40 and 84 -mesh to help relieve the load of cuttings and volume of flow, which assisted in minimizing losses.

Total of new screens used on 17.5" section Jarver-1 were:-

12x 84-mesh flat screen
5 x 20-mesh flat screen
4 x 40-mesh flat screen

Mud weight had increased from 9.0 to 9.5ppg in the course of 12 hours due to running coarse 84-mesh screens. The centrifuges were utilised from 1,600 metres to lower/control mud weight and LGS (2 centrifuges x MI SWACO FVS518, 2400rpm and 2800rpm, feed - 55 gpm per unit).

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

12¹/₄" Hole Section

HOLE SIZE : 12 ¹/₄"
MUD TYPE : KCl / Polymer / Glycol
INTERVAL : 1,947 – 3,061.8 m
CASING : None – Plug & Abandon

The remaining surface volume from the 17.5" section was centrifuged at 2800rpm and 60gpm while other preparation took place for the 12 ¹/₄" section. Mud weight was reduced from 9.4ppg to 9.0ppg and LGS from 4.1% to 1.9%. The centrifuge was then off-lined, and the active mud was re-weighed to the program mud weight of 9.4ppg with Barite prior to drilling out the cement.

During making up the MWD BHA, the shallow surface test failed when real-time communication errors were experienced with several components of the MWD tool. After troubleshooting and resolving the problems it was re-tested okay.

A 12¹/₄" drilling assembly, with Hughes 506 ZX 6-blade PDC bit was RIH and cement tagged at 1,913 metres. The active pits were lined up and the cement was drilled out using mud (with 1,357bbls of mud already in the hole from the cement job). Mud was pre-treated with Sodium Bicarbonate and Citric Acid to counter cement contamination. Three meters of new formation was drilled to 1,910 metres. A LOT was performed with 9.4ppg KCL/Glycol/PHPA mud, which produced EMW = 12.9ppg.

Prior to penetrating the Top Belfast Formation at 2,292 metres (+/- 100m), the active mud weight was gradually increased to 10.4ppg with Barite additions.

From +/-150m before the Lower Belfast Formation (2,902 metres), the PHPA additions were ceased and allowed to naturally deplete.

After reaching section TD 3,061.8m MD/TVD, the well was circulated clean.

Geologist analysis of the well data concluded no hydrocarbon potential and the final decision was to Plug and Abandon (P &A), however, conducive wireline logs was performed.

Following two wireline logs (VSP/GR and CST) the Rig and mud was prepared for the P & A operations. The cement stinger was run to bottom, mud circulated and conditioned, and the cement plug #1A set from 3,060 – 2,910 metres.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

12¹/₄" Hole Section (continued)

The drillstring was pulled out of the well to 2,905 metres and bottoms up circulated. No green cement was seen at surface but 85 bbls of contaminated mud was discharged at surface to get rid of the worst of the contamination.

Plug #1B was set from 2,905 – 2,755 metres then the drillstring pulled out of the well to 2,710 metres. No green cement was seen at surface on bottoms up and no contaminated mud was discharged.

A heavy weight slug was then pumped from the slug pit and the drillstring pulled out of the well to 2,090 metres. During this time a 48 bbl 10.4ppg Hi-vis pill was prepared in the Slug pit and spotted from 2,090 – 1,990 metres. Plug #2 was set from 1,996 – 1,846 metres. Once the drill string was pulled out of the well to 1,790 metres bottoms up was circulated and no green cement was evident at the surface. A heavy weight slug was then pumped and excess drill pipe was laid down while waiting on cement to harden. Centrifuging also commenced on the surface volume at this time.

The top of the cement was tagged at 1,846 metres with 10 klbs (96 metres of cement above the shoe), and the well was displaced to inhibited sea water. (0.2 ppb Idcide-20 and 0.25 ppb Sodium Sulphite)

The P & A operation was then completed with a 48 bbls 10.4ppg Hi-vis pill being spotted from 800-700 metres and Plug #3 being set from 700 – 630 metres.

Mud on surface was centrifuged and treated with 3 gal/100 bbl Idcide-20. 820 bbl of 9.6 ppg (2% LGS), and 745 bbls of 9.4 ppg (1.9% LGS) was transferred to the Pacific Wrangler, giving a total of 1,565 bbls transferred.

Also, 252 bbls of KCl/Glycol Brine was transferred back to the Pacific Wrangler giving a total of 1,148 bbls brine on the Pacific Wrangler.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

Mud Properties

Typical premix volume made in this section consisted of 50% Brine and 50% Drill water. Mud chemicals had concentrations of 8% KCl, 3% Glychem MC, 1ppb PHPA-LV, 1ppb Flowzan and 2ppb Drispac-SL. Most premixes were weighted up to 10.4ppg with Barite.

Mud Weight

The mud weight was reduced from 9.4ppg to 9.0ppg and LGS from 4.1% to 1.9%. The mud was re-weighted to the program mud weight of 9.4ppg with Barite.

After the LOT, the mud weight was gradually increased from 9.4ppg to 10.4ppg with barite. The weighing up process commenced from 1,950 metres, and was achieved by 2,157 metres. The mud weight was maintained at 10.4ppg by dusting in Barite to the active and by operating the 518 FVS centrifuges.

Low Gravity Solids were calculated at 3.5-3.9% and Retorts showed 12-14% uncorrected solids.

Fluid Loss

Fluid loss prior to displacement was 5.5 ml/30 minutes with the recycled mud from the previous section. All premixes used in this section had 2.0ppb Drispac SL, and on some occasions Drispac SL was directly added to the active to counter depletion. The API LPLT tests presented a firm and competent filter cake, with filtrate at 4.8 - 5.0cc/30 minutes throughout the section.

Rheology

For this section the 6 rpm reading was recorded at both the API standard 120 °F, and at the temperature of the flowline. These values were reported in the daily mud reports. The programmed range for the 6rpm at flowline temperature was 8-10 lb/100ft², and the 6rpm at API standards was 11-13 lb/100ft². Overall, good hole cleaning was observed throughout this section. The flowrate of the pumps was 800-900gpm.

Mud sampled from the flow-line was rheology tested at ambient flow-line temperatures; typically at 80 °F. The 6rpm and yield point at the flowline temperature was 11-14 lb/100ft² and 35-40 lb/100ft², respectively. BHT reached 112 °F at inner drill string temperature and 116 °F annular temperature as reported by Schlumberger.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

KCl Content

The KCl concentration of the concentrate brine from the LMP was 16% and this was cut back with drill-water with a 1:1 ratio in premixes to give a KCl content of 8%.

At times clay/shale cuttings presented dispersive and hydrated properties. Although, KCl content at 8% showed minor depletion in tests, when an additional 0.2% KCl was added to the active the dispersion was reduced and cuttings appeared discrete, inhibited, and the notable PDC was more obvious.

From observation of the cuttings at the shakers it was conclusive that KCl concentrations of 8% excess demonstrated better inhibitions, and could be considered in successive Wells in the area.

PHPA Content

To minimize mud losses over the shakers during displacement, the fresh mud was built with 0.5 ppb PHPA. There is no means of shearing the PHPA mud prior to displacement other than shearing hoppers and mix lines on the Ocean Patriot.

The PHPA concentration was maintained at approximately 0.5ppb PHPA with premixes transferred to the active system whilst drilling. Due to the extremely wet losses over the shakers it was difficult to increase the PHPA concentration.

Cuttings were observed to be adequately encapsulated and presented little dispersion. From +/-150 metres before the Lower Belfast FM (2,902 metres), the PHPA additions were ceased and allowed to naturally deplete.

Glycol Content

The Glycol concentration of the concentrate brine was 6% and this was cut back with drill water in premixes to give a Glycol content of 3%. The concentration of Glycol was maintained at 3 % in the active system by providing additions from fresh premixes containing 3% Glychem MC.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

Solids Control Equipment

4 x BEM-650 MI SWACO Shale Shakers were used, along with 2 x 518 FVS MI SWACO centrifuges. A brief run of the De-sanders was done to exercise whether the equipment was still operational.

The centrifuges were frequently utilised to lower/control mud weight and LGS. This SCE provided efficient solids removal.

The 3 cone De-sander was trialled to assist in reducing sand content (measured at <3% in the flowline). The samples tested a cut point of only 0.2ppg, and the discharge loss rate was physically measured and extrapolated to approximately 17bph. Overall, the De-sanders were inefficient and were off-lined after 2hrs of operation.

The shale shakers were dressed with 4x84 (API60) mesh on all 4 shakers, for drilling out cement and displacement to minimize KCL/Glycol/PHPA mud losses.

Shakers were fitted with 84-mesh, 165-mesh, 200-mesh or a combination of each screen. On most occasions shakers managed the flow, without significant losses.

As drilling progressed, and when PHPA additions were stopped from +/-150 metres before the Lower Belfast FM (2,902 metres), the shaker screens used were 165 with 200-mesh on Shakers 1 and 2, and 165-mesh on Shakers 3 and 4.

Total of new screens used on 12 ¼ " section Jarver-1 were:-

- 16x 165-mesh flat screen
- 4x 200-mesh flat screen

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

4. RECOMMENDATIONS

- The sweep regime employed during the drilling of this section provided good hole cleaning throughout. Without the use of Guar Gum sweeps, drill water (supply to the rig) would have become an issue. It is recommended that the option of providing Guar Gum as a contingency chemical remains in the programme and can therefore be used again in such circumstances.
- The rigs bulk transfer system worked adequately, and Bentonite was mixed without difficulty using the one hopper available to mix the gel. Guar Gum was mixed with a second hopper, and this proved to be problematic when mixing concentrations over 3.0ppb as the fluid became extremely viscous at this concentration. Once concentrations were reduced to +/-2.5ppb mixing worked, and no longer caused blockages.
- Recommendation for Rheology future deep water wells should also be recorded at BHT and/or FL temp, as well as 120 °F API standard to compare and understand rheological properties down hole, and provide sufficient hole cleaning. The 6rpm value at FL/BHT temp was higher and therefore future programme rheology properties may be reduced. Reducing rheological properties will help with shakers handling, while still providing efficient hole-cleaning.
- The additions of Caustic Soda to the concentrated Brine premix that was prepared in Portland should be reduced. The premixed Brine came out to the rig with a slightly higher than normal pH and remained high even when the brine was cut back with water. This cause the pH to be controlled by using more Citric Acid than was programmed. The higher pH of the fluid did not have any detrimental effects on the properties.
- The total recovered mud from Jarver-1 was 1,565 bbls which was loaded onto the Pacific Wrangler. This mud can be used first as it has already been sheared for either drilling out of the shoe or when the system is displaced to mud on Pecten East-1. Using this sheared mud first is to try and limited the amount of whole mud lost over the shakers when drilling the unsorted sands of the Mepunga and Dilwyn formations.

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

5. FRP INTERVAL SUMMARIES

Interval Summary

Santos Ltd

Jarver-1

36" Section

Key Interval Data		Volume Reconcile		Volume Accounting	
Initial Depth (m)	0	Recd From Prev Section	0	Surface Loss (bbl / m)	881
Final Depth (m)	645	Received Volume LMP	0	Sub-Surface (bbl / m)	0
Interval Depth (m)	645	Total Built/Added	2008	Total Loss	881
		BackLoad Volume LMP	0	Dilution Factor (bbl / m)	1.37
		Nett Volume	2008	Prog Dil' Factor (bbl / m)	0
		Losses			
		Shakers	0		
		Centrifuge	0		
		Other SCE	0		
		Discharged	881		
		Other	0		
		Down Hole/Behind Casing	0		
		Seepage/Lost In Circulation	0		
		Total Volume Lost	881		
		Final Internal Volume	1127		

Products

Products Utilised	Unit Size	Initial Units	Units Received	Units Damaged	Units Used	Returned To Stores	Units Remaining
Bentontie (ex ANZON)	1000 Kg	16	0	0	16	0	0
Barite (sacked)	25 Kg	480	0	0	385	0	95
Bentonite FOB (Melbour	1000 Kg	41	0	0	5	0	36
Caustic Soda (ex ANZO	25 Kg	10	0	0	3	0	7
						0	

Interval Summary

Santos Ltd

Jarver-1

26" Section

Key Interval Data		Volume Reconcile		Volume Accounting	
Initial Depth (m)	645	Recd From Prev Section	1127	Surface Loss (bbl / m)	7282
Final Depth (m)	1407	Received Volume LMP	0	Sub-Surface (bbl / m)	0
Interval Depth (m)	762	Total Built/Added	6457	Total Loss	7282
		BackLoad Volume LMP	0	Dilution Factor (bbl / m)	9.56
		Nett Volume	7584	Prog Dil' Factor (bbl / m)	0
		Losses			
		Shakers	0		
		Centrifuge	0		
		Other SCE	0		
		Discharged	7282		
		Other	0		
		Down Hole/Behind Casing	0		
		Seepage/Lost In Circulation	0		
		Total Volume Lost	7282		
		Final Internal Volume	302		

Products

Products Utilised	Unit Size	Initial Units	Units Received	Units Damaged	Units Used	Returned To Stores	Units Remaining
Bentonite FOB (Melbour	1000 Kg	36	23	0	32	0	27
Bentonite FOB (Melbour	1000 Kg	28	0	0	28	0	0
Guar Gum	25 Kg	120	0	0	99	0	21
KCl (sacked)	25 Kg	40	240	0	40	0	240
Caustic Soda (ex ANZO	25 Kg	7	0	0	2	0	5
						0	

Interval Summary

Santos Ltd

Jarver-1

17 1/2" Section

Key Interval Data		Volume Reconcile		Volume Accounting	
Initial Depth (m)	1407	Recd From Prev Section	302	Surface Loss (bbl / m)	1693
Final Depth (m)	1947	Received Volume LMP	2354	Sub-Surface (bbl / m)	174
Interval Depth (m)	540	Total Built/Added	1974	Total Loss	1867
		BackLoad Volume LMP	0	Dilution Factor (bbl / m)	3.46
		Nett Volume	4630	Prog Dil' Factor (bbl / m)	1.3
		Losses			
		Shakers	1306		
		Centrifuge	150		
		Other SCE	0		
		Discharged	158		
		Other	79		
		Down Hole/Behind Casing	153		
		Seepage/Lost In Circulation	21		
		Total Volume Lost	1867		
		Final Internal Volume	2763		

Products

Products Utilised	Unit Size	Initial Units	Units Received	Units Damaged	Units Used	Returned To Stores	Units Remaining
KCl / Glycol / Premix_*	0 bbl	0	1594	0	1594	0	0
Flowzan	25 Kg	160	80	0	167	0	73
KCl / NaCl / Glycol Pre	0 bbl	0	760	0	760	0	0
Driscac SL	25 Kg	120	80	0	110	0	90
JK-261 LV	25 Kg	120	120	0	45	0	195
Citric Acid	25 Kg	40	0	0	30	0	10
Barite (ex ANZON)	1000 Kg	58	45	0	2	0	101
Idcide-20	20 Ltr	32	0	0	6	0	26
Sodium Bicarbonate (ex	25 Kg	14	0	0	14	0	0
Sodium Sulphite	25 Kg	35	0	0	5	0	30
Other Products		54	0	0	6	0	48

Interval Summary

Santos Ltd

Jarver-1

12 1/4" Section

Key Interval Data		Volume Reconcile		Volume Accounting	
Initial Depth (m)	1947	Recd From Prev Section	2763	Surface Loss (bbl / m)	1839
Final Depth (m)	3062	Received Volume LMP	824	Sub-Surface (bbl / m)	614
Interval Depth (m)	1115	Total Built/Added	683	Total Loss	2453
		BackLoad Volume LMP	1817	Dilution Factor (bbl / m)	2.20
		Nett Volume	2453	Prog Dil' Factor (bbl / m)	1.1
		Losses			
		Shakers	958		
		Centrifuge	212		
		Other SCE	0		
		Discharged	587		
		Other	82		
		Down Hole/Behind Casing	426		
		Seepage/Lost In Circulation	188		
		Total Volume Lost	2453		
		Final Internal Volume	0		

Products

Products Utilised	Unit Size	Initial Units	Units Receive	Units Damaged	Units Used	Returned To Stores	Units Remaining
KCI / Glycol / Premix_	0 bbl	0	824	0	824	0	0
Barite (ex ANZON)	1000 Kg	101	0	0	101	0	0
Barite FOB (Portland)	1000 Kg	111	97	0	33	45	130
Flowzan	25 Kg	73	80	0	30	0	123
Drispac SL	25 Kg	90	120	0	47	0	163
KCI (sacked)	25 Kg	520	240	0	280	0	480
Citric Acid	25 Kg	10	40	0	50	0	0
Idcide-20	20 Ltr	26	0	0	20	0	6
JK-261 LV	25 Kg	195	0	0	11	0	184
Sodium Sulphite	25 Kg	30	0	0	30	0	0
Other Products		48	0	0	22	0	26

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

7. FLUID PROPERTIES SUMMARY

WBM Fluid Properties Summary

Date	Day					Rheology					Fluid Loss Data				Solids					Water Phase Chemistry									
		Mud Type	Temp.	Depth	Weight	Vis	PV	YP	10 Sec	10 Min	API	Cake	HPHT	@ Temp	Solids	Water	Oil	Sand	MBT	pH	Pm	Pf	Mf	Cl-	CA++	SO3	K+	KCl	PHPA
16-May-08	1	SW / PHG sweeps	65	0	8.7	240	6	71	47	60					2.7	97.3				9.5		0.25	0.45	900	20				
		SW / PHG sweeps	65	633	8.75	168	6	56	40	52					3.1	96.9				10		0.3	0.6	750	20				
		SW / PHG sweeps	65	645	8.75	250	14	63	49	55					3.1	96.9				9.5		0.3	0.6	700	20				
17-May-08	2	SW / PHG sweeps	65	645	8.75	275	17	68	50	58					3.1	96.9				9.5		0.2	0.35	1500	20				
		SW / PHG sweeps	65	645	8.75	280	18	69	52	59					3.1	96.9				9.5		0.25	0.35	1400	20				
		SW / PHG sweeps	65	645	8.75	270	18	68	51	58					3.1	96.9				9.5		0.2	0.35	1400	20				
18-May-08	3	SW / PHG sweeps	65	645	8.75	273	18	68	50	57					3.1	96.9				10		0.2	0.3	1900	20				
		SW / PHG sweeps	65	818	8.75	280	15	77	53	55					3.1	96.9				10		0.2	0.35	3360	40				
		SW / PHG sweeps	65	995	8.75	270	14	78	54	55					3.1	96.9				10		0.2	0.3	3200	40				
19-May-08	4	SW / PHG sweeps	70	1120	8.75	295	23	65	58	59					3.1	96.9				9.5		0.2	0.35	1200	20				
		SW / PHG sweeps	68	1397	8.75	290	22	66	56	57					3.1	96.9				10		0.25	0.35	1000	20				
		SW / PHG sweeps	70	1407	8.75	310	23	67	58	59					3.1	96.9				9.5		0.2	0.35	1100	20				
20-May-08	5	SW / PHG sweeps	70	1407	8.75	250	7	72	34	38					3.1	96.9				9.5		0.2	0.4	1050	20				
		SW / PHG sweeps	70	1407	8.75	280	15	77	56	57					3.1	96.9				10		0.2	0.3	1500	40				
		SW / PHG sweeps	70	1407	8.75	275	15	77	54	55					3.1	96.9				10		0.2	0.3	1500	40				
21-May-08	6	SW / PHG sweeps	65	1407	8.75	275	15	75	53	55					3.1	96.9				9.5		0.2	0.35	1400	20				
		SW / PHG sweeps	65	1407	8.75	273	14	77	54	55					3.1	96.9				9.5		0.25	0.35	1400	20				
		SW / PHG sweeps	65	1407	8.75	275	15	76	53	54					3.1	96.9				9.5		0.2	0.35	1300	20				
22-May-08	7	SW / PHG sweeps	65	1407	8.75	280	16	75	54	56					3.1	96.9				9.5		0.2	0.3	1400	20				
		SW / PHG sweeps	63	1407	8.75	275	15	75	53	56					3.1	96.9				9.5		0.2	0.3	1350	20				
		SW / PHG sweeps	63	1407	8.75	285	16	76	55	57					3.1	96.9				9.5		0.2	0.35	1400	20				
23-May-08	8	SW / PHG sweeps	65	1407	8.75	280	16	74	54	57					3.1	96.9				9.5		0.2	0.3	1350	20				
		SW / PHG sweeps	63	1407	8.75	285	16	75	53	56					3.1	96.9				9.5		0.2	0.35	1400	20				
		KCL/PHPA/Glycol	65	1407	9.55										3.7	96.3				10.5		0.25	0.95	125000	240	180	85924	15.9	
24-May-08	9	SW / PHG sweeps	65	1407	8.75	280	16	75	54	56					3.1	96.9				9.5		0.2	0.3	1400	20				
		KCL/PHPA/Glycol	67	1407	8.9	56	12	19	6	8	14				1.5	98.5		0	0	9.25	0.25	0.1	1	57000	200	150	43232	8	0.5
		KCL/PHPA/Glycol	67	1407	8.9	72	14	31	10	14	14				1.5	98.5		0	0	9.25	0.25	0.12	0.9	55000	200	150	43232	8	0.5
25-May-08	10	KCL/PHPA/Glycol	73	1407	8.95	74	14	30	10	13	14	1			1.8	98.2		0	0	9	0.2	0.05	1.1	56000	160	150	43232	8	0.5
		KCL/PHPA/Glycol	73	1407	8.95	72	14	31	10	14	14	1			1.8	98.2		0	0	9.25	0.25	0.12	0.9	55000	200	150	43232	8	0.5
		SW / PHG sweeps	67	1407	8.75	280	16	75	54	56					3.1	96.9				9.5		0.2	0.3	1400	20				
26-May-08	11	KCL/PHPA/Glycol	72	1407	8.95	74	14	31	10	14	14	1			1.8	98.2		0	0	9.25	0.3	0.12	0.9	55000	200	150	43232	8	0.5
		KCL/PHPA/Glycol	70	1407	8.9	72	15	29	10	13	14	1			1.5	98.5		0	0	9.25	0.25	0.1	0.9	56000	200	150	43232	8	0.5
		KCL/PHPA/Glycol	68	1407	8.9	75	15	29	10	13	14	1			1.5	98.5		0	0	9.25	0.2	0.1	0.9	56000	200	150	43232	8	0.5
27-May-08	12	KCL/PHPA/Glycol	70	1407	8.9	75	15	30	10	13	14.0	1			1.5	98.5		0	0	9.25	0.2	0.1	0.9	56000	200	150	43232	8	0.5
		KCL/PHPA/Glycol	74	1407	9	61	15	29	10	13	10.0	1			2.2	97.8		0	2.5	9.5	0.3	0.2	1.1	57000	300	150	43232	8	0.5
		KCL/PHPA/Glycol	75	1407	9	65	14	30	12	14	9.9	1			2.2	97.8		0	2.5	9.2	0.25	0.2	1	56000	320	150	43232	8	0.5
28-May-08	13	KCL/PHPA/Glycol	71	1407	9	71	15	29	10	13	8.0	1			2.2	97.8		0	2.5	9.5	0.3	0.2	1.1	57000	300	150	43232	8	0.5
		KCL/PHPA/Glycol	72	1424	9.05	70	15	31	12	15	8.0	1			2.6	97.4		0.1	2.5	10	0.4	0.3	1.3	57000	500	150	43232	8	0.6
		KCL/PHPA/Glycol	85	1660	9.4	72	15	30	12	15	7.0	1			5.3	94.7		1.0	5	9.5	0.3	0.25	1.2	57000	400	150	43232	8	0.7
29-May-08	14	KCL/PHPA/Glycol	78	1774	9.45	73	17	30	10	13	5.5	1			5.7	94.3		1.0	5	9.5	0.3	0.2	1.2	53000	400	120	43232	8	0.7
		KCL/PHPA/Glycol	78	1936	9.4	75	17	35	11	14	6.0	1			5.3	94.7		1.1	6.2	9.25	0.3	0.14	1.1	53000	500	140	43232	8	0.7
		KCL/PHPA/Glycol	70	1947	9.4	75	19	33	12	14	6.6	1			5.2	94.8		1.0	6.2	9	0.25	0.15	1.1	53000	400	140	43232	8	0.6
30-May-08	15	KCL/PHPA/Glycol	1947	9.4	74	16	30	10	13	6.5	1				5.2	94.8		0.5	6.5	9.2	0.2	0.15	1.1	53000	400	140	43232	8	0.6
		KCL/PHPA/Glycol	71	1947	9.4	74	22	43	13	18	6.0	1			5.2	94.8		0.5	6.5	9.2	0.2	0.15	1.1	53000	400	140	43232	8	0.6
		KCL/PHPA/Glycol	1947	9.4	72	19	30	11	14	6.0	1				5.2	94.8		0.5	6.5	9	0.2	0.15	1.1	53000	400	140	43232	8	0.6
31-May-08	16	KCL/PHPA/Glycol	1947	9.4	72	19	30	11	14	5.0	1				5.2	94.8		0.5	6.5	9	0.2	0.12	1.1	53000	400	140	43232	8	0.6
		KCL/PHPA/Glycol	70	1947	9.4	74	22	45	14	20	5.0	1			5.2	94.8		0.5	6.5	9.2	0.2	0.14	1.1	53000	400	140	43232	8	0.6
		KCL/PHPA/Glycol	1947	9.3	74	17	36	12	15	5.2	1				4.4	95.6		0.25	6	9	0.2	0.12	1.1	53000	400	140	43232	8	0.6
01-Jun-08	17	KCL/PHPA/Glycol	1947	9	65	13	26	8	10	5.2	1				2.1	97.9		0.1	6	9	0.2	0.12	1	51000	400	140	43232	8	0.6
		KCL/PHPA/Glycol	70	1947	9.4	68	18	40	8	10	5.5	1			4.3	95.7		0.1	6	9	0.2	0.1	1	51000	400	140	43232	8	0.6
		KCL/PHPA/Glycol	1947	9.4	68	14	30																						

WBM Fluid Properties Summary

Date	Day					Rheology					Fluid Loss Data				Solids					Water Phase Chemistry										
		Mud Type	Temp.	Depth	Weight	Vis	PV	YP	10 Sec	10 Min	API	Cake	HPHT	@ Temp	Solids	Water	Oil	Sand	MBT	pH	Pm	Pf	Mf	Cl-	CA++	SO3	K+	KCl	PHPA	
02-Jun-08	18	KCL/PHPA/Glycol	80	2280	10.4	63	19	32	10	15	4.8	1			8.8	91.2		0.75	5	9.2	0.15	0.1	1.2	53000	400	180	44313	8.2	0.6	
03-Jun-08	19	KCL/PHPA/Glycol	80	2579	10.4	62	19	31	9	12	4.8	1			8.8	91.2		0.9	5	9	0.2	0.1	0.9	55000	400	120	44313	8.2	0.6	
04-Jun-08	20	KCL/PHPA/Glycol	82	2970	10.4	60	19	37	12	15	5.0	1			8.7	91.3		1.5	3.5	9	0.15	0.1	1	55000	400	180	44313	8.2	0.1	
		KCL/PHPA/Glycol	82	3004	10.4	60	14	28	10	14	5.0	1			8.7	91.3		1.5	3.5	9	0.2	0.1	1	55000	400	180	44313	8.2	0	
		KCL/PHPA/Glycol		3022	10.4	60	18	30	9	12	5.0	1			8.7	91.3		0.5	3.5	9.2	0.2	0.1	0.9	53000	440	120	45934	8.5	0	
		KCL/PHPA/Glycol	82	3061	10.4	60	17	30	10	14	5.0	1			8.5	91.5		0.75	3.5	9.2	0.2	0.1	0.9	53000	400	120	45394	8.4	0	
05-Jun-08	21	KCL/PHPA/Glycol		3061	10.4	58	16	28	9	13	4.8	1			8.5	91.5		0.5	3.5	9.2	0.2	0.1	1	53000	400	120	45394	8.4	0	
		KCL/PHPA/Glycol	76	3062	10.4	56	18	31	8	12	4.8	1			8.6	91.4		0.75	2.5	9	0.1	0.05	0.9	53000	400	100	44313	8.2	0	
		KCL/PHPA/Glycol	75	3062	10.4	60	16	33	9	12	5.0	1			8.6	91.4		0.75	2.5	9	0.1	0.1	0.9	53000	400	100	43232	8	0	
06-Jun-08	22	KCL/PHPA/Glycol	75	3062	10.4	59	17	31	9	12	5.0	1			8.6	91.4		0.75	2.5	9	0.1	0.05	0.9	53000	400	100	43232	8	0	
		KCL/PHPA/Glycol		3062	10.4	60	18	32	9	12	5.0	1			8.6	91.4		0.75	2.5	9.2	0.1	0.05	0.9	53000	400	120	43232	8	0	
		KCL/PHPA/Glycol		3062	10.4	59	17	31	9	12	5.0	1			8.6	91.4		0.75	2.5	9.2	0.1	0.05	0.9	53000	400	120	43232	8	0	
07-Jun-08	23	KCL/PHPA/Glycol		3062	10.4	62	17	34	10	14	5.0	1			8.6	91.4		0.75	2.5	9.2	0.1	0.05	0.9	53000	400	120	43232	8	0	
		KCL/PHPA/Glycol		3062	10.4	62	16	32	8	12	6.2	1			8.6	91.4		0.75	2.5	10	1.5	0.35	1.5	53000	360	120	43232	8	0	
		KCL/PHPA/Glycol		3062	10.4	66	19	33	9	13	6.0	1			8.6	91.4		0.75	2.5	10	0.9	0.35	1.5	53000	560	120	43232	8	0	
08-Jun-08	24	KCL/PHPA/Glycol		3062	10.4	65	18	33	11	15	6.0	1			8.6	91.4		0.5	2.5	9.5	0.25	0.15	1.9	53000	600	120	43232	8	0	
		KCL/PHPA/Glycol		3062	10.35	70	19	29	9	19	6.5	1			8.2	91.8		0.75	2.5	11.5	1.8	0.4	2	50000	800	100	43232	8	0	
		KCL/PHPA/Glycol		3062	9.6	56	14	23	7	9	6.5	1			4.6	95.4		0.25	2.5	10.3	0.6	0.2	2.2	48000	1040	100	43232	8	0	
09-Jun-08	25	KCL/PHPA/Glycol		3062	9.6	58	15	26	8	11	6.5	1			4.6	95.4		0.2	2.5	10.3	0.65	0.18	1.9	48000	880	80	43232	8	0	
		KCL/PHPA/Glycol		3062	9.45	56	13	20	5	6	6	1			3.5	96.5		0.15	2	10.3	0.35	0.15	1.15	61000	440	60	54040	10	0	
		KCL/PHPA/Glycol		3062	9.33	64	15	27	9	12	7	1			3.4	96.6		0.1	2.5	10.3	0.6	0.2	1.8	50000	880	80	43232	8	0	

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

8. FLUID VOLUMES SUMMARY

SHEET: MUD VOLUMES
OPERATOR: SANTOS
WELL: Jarver 1
SECTION: 36"
MUD TYPE: Seawater / PHB sweeps



Date	Midnight Depth	Depth Drilled	Cumm Drilled	Previous Final Volume	TRANSFERS		ADDITIONS				Daily Added	MUD VOLUME				Total Vol	MUD LOSSES								Total Daily Losses	Daily Loss/m	Total Cumm Loss	Cumm Loss/m	Mud on Hand	Balance
					Rec'd	B'load	Water	Oil	Chems	Sea Water		Hole	Active	Resv	Store		Surface				Sub-Surface									
																	S.C.E	Disch	Trip	Water	D/hole	Left Casing	Other							
15/05/2008	597										0					0							0		0	0	0	0		
16/05/2008	645	48	48	0			1943		65		2008		122	1005		1127		881					881	18.35	881	18.35	1127	0		

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SHEET: MUD VOLUMES
 OPERATOR: SANTOS
 WELL: Jarver 1
 SECTION: 17.5"
 MUD TYPE: KCL/Glycol/PHPA



Date	Midnight Depth	Depth Drilled	Cumm Drilled	Previous Final Volume	TRANSFERS		ADDITIONS				Daily Added	MUD VOLUME				Total Vol	MUD LOSSES								Total Daily Losses	Daily Loss/m	Total Cumm Loss	Cumm Loss/m	Mud on Hand	Balance
					Rec'd	B'load	Water	Oil	Chems	Sea Water		Hole	Active	Resv	Store		Surface				Sub-Surface									
																	S.C.E	Disch	Trip	Water	D/hole	Left Casing	Other							
23/05/2008	1407	0	0	302	1350		489		6		1845		72	2075	0	2147								0		0		2147	0	
24/05/2008	1407	0	0	2147					1		1		72	2076		2148								0		0		2148	0	
25/05/2008	1407	0	0	2148							0		72	2076		2148								0		0		2148	0	
26/05/2008	1407	0	0	2148							0		0	2148		2148								0		0		2148	0	
27/05/2008	1407	0	0	2148	549		600		14		1163	1647	359	1277		3283	21	7						28		28		3283	0	
28/05/2008	1720	313	313	3283			400		15		415	1882	528	910		3320	378							378	1.21	406	0.75	3320	0	
29/05/2008	1947	227	540	3320	455		440		8		903	2130	33	1026		3189	984	50						1034	4.56	1440	2.67	3189	0	
30/05/2008	1947	0	540	3189							0	2071	482	558		3111		28	22		21		7	78		1518		3111	0	
31/05/2008	1947	0	540	3111					1		1	1357	361	1045		2763	66	130				153		349		1867		2763	0	

SHEET: MUD VOLUMES
 OPERATOR: SANTOS
 WELL: Jarver 1
 SECTION: 12.25"
 MUD TYPE: KCL/Glycol/PHPA



Date	Midnight Depth	Depth Drilled	Cumm Drilled	Previous Final Volume	TRANSFERS		ADDITIONS				Daily Added	MUD VOLUME				Total Vol	MUD LOSSES								Total Daily Losses	Daily Loss/m	Total Cumm Loss	Cumm Loss/m	Mud on Hand	Balance	
					Rec'd	B'load	Water	Oil	Chems	Sea Water		Surface					Sub-Surface														
												S.C.E	Disch	Trip	Water		D/hole	Left Casing	Other												
1/06/2008	1947	0	0	2763	489		50		5		55	1315	543	1437		3295	12							12		12		3295	0	RIH drill out shoe	
2/06/2008	2310	363	363	3295			105		113		218	1494	479	1318		3291	222							222	0.61	234	0.21	3291	0	drill 12.25" section	
3/06/2008	3010	700	1063	3291	335		280		77		357	1814	550	978		3342	607						34	641	0.92	875	0.78	3342	0		
4/06/2008	3062	52	1115	3342					41		41	1939	365	854		3158	167		48		10			225	4.33	1100	0.99	3158	0		
5/06/2008	3062	0	1115	3158							0	1939	350	739		3028	2	28			100			130		1230		3028	0		
6/06/2008	3062	0	1115	3028		252					0	1781	403	498		2682	5	35			54			94		1324		2682	0		
7/06/2008	3062	0	1115	2682					6		6			1836		1836	57	408			24	363		852		2176		1836	0		
8/06/2008	3062	0	1115	1836		820			5		5	39		825		864	84	10				63		157		2333		864	0		
9/06/2008	3062	0	1115	864		745			1		1					0	14	106						120		2453		0	0		
10/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
11/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
12/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
13/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
14/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
15/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
16/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
17/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
18/06/2008	3062	0	1115	0							0					0								0		2453		0	0		
TOTAL		1115	0		824	1817	435	0	248	0	683						1170	587	48	0	188	426	0	2453		0	0.99		0		

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

9. DAILY MUD REPORTS



Report #	1	Total MD	0	to	645	m
Rig #	OCEAN PATRIOT	Total VD	0	to	645	m
Date	16/05/2008	Daily Depth Drilled			645	m
Spud Date	16/05/2008	Interval Depth Drilled			645	m

MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS			
SAMPLE FROM	Pit	Pit	Pit	MW alap	MFV 100	pH 9-10	
MUD TYPE	SWPH	SWPH	SWPH	10s Gel >15	10m Gel >40	6 RPM >40	

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type					Hours	OF	UF	GPM Feed
Barite (sacked)	25 Kg Sack	480	0	385	95	Desander	Cone Size	0	No.		0	0	0	0
Bentontie (ex ANZON)	1000 Kg	16	0	16	0	Desilter	Cone Size	0	No.		0	0	0	0
Bentonite FOB (Melbourne)	1000 Kg	69	0	5	64	Mud Cleaner					0	0	0	0
Caustic Soda (ex ANZON)	25 Kg	10	0	3	7	Centrifuge 1					0	0	0	0
						Centrifuge 2					0	0	0	0
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.0
											0	LGS %		3.1
											0	Drilled Solids %		
											0	Salt %		0.000
											0			

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RHEOCHEM

Date: 16/05/2008

Report No 1

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	2195	bbl
Chemical Volume added	64	bbl
Sump recycled water		bbl
Seawater	320	bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	2579	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	669	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	669	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:	0		bbl
TOTAL DISPOSED:	669		bbl
Interval losses (bbl/ft/m):	1		

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)				Comments
		Current	Capacity	MW (ppg)		
1	Reserve	224	225	10		Kill Mud
2	Reserve	320	333	8.6		Seawater
3a	Reserve	12	237	8.7		PHG
3b	Reserve	206	237	8.75		PHG
4	Reserve	455	473	8.75		PHG
5	Active	495	495	8.75		PHG

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:	495	
Total Hole Volume(inc riser):	198	
Other Volume In Hole:		
Total Riser Volume:		
Total Received:	2579	
Total Storage:		
Total Reserve:	1217	
Total Disposed:		669
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	1910	bbls



Daily Inventory

Well: Jarver-1
Report No: 1
Report Date: 16/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
Barite (ex ANZON)	1000 Kg	65				65			65
Barite (sacked)	25 Kg Sack	480	385	385		480			95
Bentonite FOB (Melbourne)	1000 Kg	69	5	5		69			64
Bentontie (ex ANZON)	1000 Kg	16	16	16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda (ex ANZON)	25 Kg	10	3	3		10			7
Flowzan	25 Kg Sack	40				40			40
Guar Gum	25 Kg Sack	120				120			120
KCl (sacked)	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14



Report #	2	Total MD	645	to	645	m
Rig #	OCEAN PATRIOT	Total VD	645	to	645	m
Date	17/05/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			0	m

MUD PROPERTIES	MUD PROPERTY SPECIFICATIONS

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type					Hours	OF	UF	GPM Feed
Bentonite FOB (Melbourne)	1000 Kg	36	23	6	53	Desander	Cone Size	0	No.		0	0	0	0
Caustic Soda (ex ANZON)	25 Kg	7	0	1	6	Desilter	Cone Size	0	No.		0	0	0	0
						Mud Cleaner					0	0	0	0
						Centrifuge 1					0	0	0	0
						Centrifuge 2					0	0	0	0
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.0
											0	LGS %		3.1
											0	Drilled Solids %		
											0	Salt %		0.105
											0			

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RHEOCHEM

Date: 17/05/2008

Report No 2

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	487	bbl
Chemical Volume added	14	bbl
Sump recycled water		bbl
Seawater	320	bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	821	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			0	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			MW (ppg)	Comments
		Current	Capacity			
1	Reserve	224	225	10		
2	Reserve	320	333	8.6		
3a	Reserve	227	237	8.7		
3b	Reserve	227	237	8.75		
4	Reserve	455	473	8.75		
5	Active	495	495	8.75		

VOLUME SUMMARY:

	+	-
Starting Volume:	1127	
Current Tank Volume:	495	
Total Hole Volume(inc riser):		
Other Volume In Hole:	123	
Total Riser Volume:		
Total Received:	821	
Total Storage:		
Total Reserve:	1453	
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	1948	bbls



Daily Inventory

Well: Jarver-1
Report No: 2
Report Date: 17/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
Barite (ex ANZON)	1000 Kg	65				65			65
Barite (sacked)	25 Kg Sack	95		385		480			95
Bentonite FOB (Melbourne)	1000 Kg	36	6	11	23	64			53
Bentonite FOB (Melbourne) ST	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda (ex ANZON)	25 Kg	7	1	4		10			6
Flowzan	25 Kg Sack	40				40			40
Guar Gum	25 Kg Sack	120				120			120
KCl (sacked)	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14



Report #	3	Total MD	645	to	1085	m
Rig #	OCEAN PATRIOT	Total VD	645	to	1085	m
Date	18/05/2008	Daily Depth Drilled			440	m
Spud Date	16/05/2008	Interval Depth Drilled			440	m

MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS			
SAMPLE FROM	Pit	Pit	Pit	MW alap	MFV 100	pH 9-10	
MUD TYPE	SWPH	SWPH	SWPH	10s Gel >15	10m Gel >40	6 RPM >40	

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type				Hours	OF	UF	GPM Feed	
Guar Gum	25 Kg Sack	120	0	67	53	Desander	Cone Size	0	No.		0	0	0	0
Bentonite FOB (Melbourne)	1000 Kg	28	0	13	15	Desilter	Cone Size	0	No.		0	0	0	0
Bentonite FOB (Melbourne)	1000 Kg	53	0	10	43	Mud Cleaner					0	0	0	0
						Centrifuge 1					0	0	0	0
						Centrifuge 2					0	0	0	0
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.0
											0	LGS %		3.1
											0	Drilled Solids %		
											0	Salt %		0.240
											0			

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RHEOCHEM

Date: 18/05/2008

Report No 3

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	1000	bbl
Chemical Volume added	64	bbl
Sump recycled water		bbl
Seawater	1197	bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	2261	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	2247	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	2247	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:	0		bbl
TOTAL DISPOSED:	2247		bbl
Interval losses (bbl/ft/m):	5		

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)				Comments
		Current	Capacity	MW (ppg)		
1	Reserve	224	225	10		Kill Pill
2	Active	320	333	8.6		Guar Gum
3a	Reserve	227	237	8.75		PHG
3b	Reserve	227	237	8.75		PHG
4	Reserve	462	473	8.75		PHG
5	Active	430	495	8.75		PHG
Slug Pit	Active	72	77	8.6		Seawater

VOLUME SUMMARY:

	+	-
Starting Volume:	1948	
Current Tank Volume:	822	
Total Hole Volume(inc riser):		
Other Volume In Hole:	1007	
Total Riser Volume:		
Total Received:	2261	
Total Storage:		
Total Reserve:	1140	
Total Disposed:		2247
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	1962	bbls



Daily Inventory

Well: Jarver-1
 Report No: 3
 Report Date: 18/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
Barite (ex ANZON)	1000 Kg	65				65			65
Barite (sacked)	25 Kg Sack	95		385		480			95
Bentonite FOB (Melbourne)	1000 Kg	53	10	21		64			43
Bentonite FOB (Melbourne) ST	1000 Kg	28	13	13		28			15
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda (ex ANZON)	25 Kg	6		4		10			6
Flowzan	25 Kg Sack	40				40			40
Guar Gum	25 Kg Sack	120	67	67		120			53
KCl (sacked)	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14



Report #	4	Total MD	1085	to	1407	m
Rig #	OCEAN PATRIOT	Total VD	1085	to	1407	m
Date	19/05/2008	Daily Depth Drilled			322	m
Spud Date	16/05/2008	Interval Depth Drilled			762	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 26	Smith Mill	24	24	24	24	0	0.00 Riser Length	597 m	HOLE 1235	PITS 874	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS 3176 psi	
DRILL PIPE SIZE (") 5	TYPE	LENGTH 459 m							30 Conductor @ 642 m	TOTAL CIRCULATING VOL. 2109		PUMP MODEL National	% EFFICIENCY 97	SURFACE TO BIT 2 min
DRILL PIPE SIZE (") 6.504	TYPE HW	LENGTH 140 m					Surface @ m	RESERVE PITS 1120		BBL / STK 0.1018	STK / MIN 282	BOTTOMS UP 108 min		
DRILL COLLAR SIZE (") 9.5	"	LENGTH 34	58	m			Intermediate @ m	STORAGE TANKS 0		BBL / MIN 28.71	GAL / MIN 1206	TOTAL CIRC TIME 141 min		
							Prod. or LNR @ m							

SAMPLE FROM	Pit	Pit	Pit	MW	alap	MFV	100	pH	9-10
MUD TYPE	SWPH	SWPH	SWPH	10s Gel	>15	10m Gel	>40	6 RPM	>40

YIELD POINT (lb / 100FT) ²	120 °F	65			66			67			OPERATIONAL COMMENTS Continued to Drill ahead at an average of 32 m/hr ROP. Reach Section TD @ 1407m MD/TVD. Displace PHG Mud and spot KCL Pill on bottom. POOH, overpull observed intermittently from 1229m-945m. No overpull observed from 919 to 30" casing shoe. Once in inside casing shoe break circulation with seawater. Rack back stands, and commence RIH with singles at time of report. Survey 0.5 degree at 1407 m.
GEL STRENGTH (lb / 100FT) ³ 10sec/10min/30min		58	59		56	57		58	59		
n K (lb/100 ft)		0.33	11.63		0.33	11.63		0.33	11.63		
API FILTRATE (cm / 30 min.)											
HPHT FILTRATE (cm / 30 min.)	°F										
API : HPHT (Cake / 32nd in.)											
pH		9.5			10.0			9.5			
ALKALINITY MUD (Pm)											
ALKALINITY FILTRATE (Pf / Mf)		0.20	0.3		0.25	0.3		0.20	0.3		
CHLORIDE (mg / L)		1,200			1,000			1,100			

PRODUCT USAGE	SOLIDS CONTROL EQUIPMENT

Rheochem Engineer: Kellie Jericho Carissa Thompson **Office:** Perth **Telephone:** 0894108214 **Fax:** 0894108214

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RHEOCHEM

Date: 19/05/2008

Report No 4

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	2675	bbl
Chemical Volume added	40	bbl
Sump recycled water		bbl
Seawater	620	bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	3335	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	2068	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	2068	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		0	bbl
TOTAL DISPOSED:		2068	bbl
Interval losses (bbl/ft/m):		6	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)				Comments
		Current	Capacity	MW (ppg)		
1	Reserve	204	225	8.75	PHG	
2	Active	320	333	8.75	PHG	
3a	Reserve	227	237	8.75	PHG	
3b	Reserve	227	237	8.75	PHG	
4	Reserve	462	473	8.75	PHG	
5	Active	482	495	8.75	PHG	
Slug Pit	Active	72	77	8.6	Seawater	

VOLUME SUMMARY:

	+	-
Starting Volume:	1962	
Current Tank Volume:	874	
Total Hole Volume(inc riser):	1235	
Other Volume In Hole:	477	
Total Riser Volume:		
Total Received:	3335	
Total Storage:		
Total Reserve:	1120	
Total Disposed:		2068
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	3229	bbls



Daily Inventory

Well: Jarver-1
Report No: 4
Report Date: 19/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
Barite (ex ANZON)	1000 Kg	65				65			65
Barite (sacked)	25 Kg Sack	95		385		480			95
Bentonite FOB (Melbourne)	1000 Kg	43		21		64			43
Bentonite FOB (Melbourne) ST	1000 Kg	15	15	28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda (ex ANZON)	25 Kg	6	1	5		10			5
Flowzan	25 Kg Sack	40				40			40
Guar Gum	25 Kg Sack	53	32	99		120			21
KCl (sacked)	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14



Report #	5	Total MD	1407	to	1407	m
Rig #	OCEAN PATRIOT	Total VD	1407	to	1407	m
Date	20/05/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			762	m

MUD PROPERTIES	MUD PROPERTY SPECIFICATIONS

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type					Hours	OF	UF	GPM Feed
KCl (sacked)	25 Kg Sack	40	0	40	0	Desander	Cone Size	0	No.		0	0	0	0
Bentonite FOB (Melbourne)	1000 Kg	43	0	16	27	Desilter	Cone Size	0	No.		0	0	0	0
						Mud Cleaner					0	0	0	0
						Centrifuge 1					0	0	0	0
						Centrifuge 2					0	0	0	0
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.0
											0	LGS %		3.1
											0	Drilled Solids %		
											0	Salt %		0.113
											0			

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the use of same.



RHEOCHEM

DAILY MUD VOLUME ACCOUNT

Date: 20/05/2008

Report No 5

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added	40	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	40	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	959	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	959	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:	0		bbl
TOTAL DISPOSED:	959		bbl
Interval losses (bbl/ft/m):	7		

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)				Comments
		Current	Capacity	MW (ppg)		
1	Reserve	29	225	8.75	PHG	
2	Reserve	43	333	8.75	PHG	
3a	Reserve	30	237	8.75	PHG	
3b	Reserve	31	237	8.75	PHG	
4	Reserve	282	473	8.75	PHG	
5	Reserve	64	495	8.75	PHG	
Slug Pit	Active	72	77	8.6	Seawater	

VOLUME SUMMARY:

	+	-
Starting Volume:	3229	
Current Tank Volume:	72	
Total Hole Volume(inc riser):	1759	
Other Volume In Hole:		
Total Riser Volume:		
Total Received:	40	
Total Storage:		
Total Reserve:	479	
Total Disposed:		959
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	2310	bbls



Daily Inventory

Well: Jarver-1
Report No: 5
Report Date: 20/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
Barite (ex ANZON)	1000 Kg	65				65			65
Barite (sacked)	25 Kg Sack	95		385		480			95
Bentonite FOB (Melbourne)	1000 Kg	43	16	65		92			27
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Flowzan	25 Kg Sack	40				40			40
Guar Gum	25 Kg Sack	21		99		120			21
KCl (sacked)	25 Kg Sack	40	40	40		40			
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14



Report #	6	Total MD	1407	to	1407	m
Rig #	OCEAN PATRIOT	Total VD	1407	to	1407	m
Date	21/05/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			762	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 26	No Bit	0	0	0	0	0	0.00 Riser Length 597 m	HOLE 1759	PITS 72	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS psi		
DRILL PIPE SIZE (") 20	Casing	LENGTH 0 m						30 Conductor @ 642 m	TOTAL CIRCULATING VOL. 1831		PUMP MODEL National	% EFFICIENCY 97	SURFACE TO BIT 0 min	
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m					Surface @ m	RESERVE PITS 479	BBL / STK		STK / MIN	BOTTOMS UP 0 min		
DRILL COLLAR SIZE (") 8	0	LENGTH 0	0	0	0	0 m	Prod. or LNR @ m	STORAGE TANKS 0		BBL / MIN		GAL / MIN	TOTAL CIRC TIME min	

SAMPLE FROM	Pit	Pit	Pit	MW	alap	MFV	100	pH	9-10
MUD TYPE	SWPH	SWPH	SWPH	10s Gel	>15	10m Gel	>40	6 RPM	>40

WEIGHT		ppg / SG		8.8	1.05	8.8	1.05	8.8	1.05
FUNNEL VISCOSITY (sec / qt) API @ 120 °F		275		273		275			
RHEOLOGY 600 : 300 RPM 120 °F		105	90	105	91	106	91		
RHEOLOGY 200 : 100 RPM 120 °F		78	70	78	70	77	70		
RHEOLOGY 6 : 3 RPM 120 °F		67	65	67	66	68	66		
PLASTIC VISCOSITY cP @ 120 °F		15		14		15			

GEL STRENGTH (lb / 100FT) 10sec/10min/30min										53	55		54	55		53	54		Continue to P/U and rack back singles. R/U and RIH with 20" Casing to 445 m at time of report.
n K (lb/100 ft)										0.22	23.08		0.22	23.08		0.22	23.08		

HPHT FILTRATE (cm / 30 min.)	°F			

pH	9.5	9.5	9.5

ALKALINITY FILTRATE (Pf / Mf)	0.20	0.3	0.25	0.3	0.20	0.3

TOTAL HARDNESS AS CALCIUM (mg / L)	20	20	20	Water Source	Supply Boats

[illegible][illegible]

METHYLENE BLUE CAPACITY (ppb equiv/%)					Other	0	Other	0	Lost sub	0
SOLIDS CONTENT (% by volume) Calc	3.13	3.13	3.13							

LIQUID CONTENT (% by volume) Core	50.00	50.00	50.00	TOTAL MUD ON RIG (bbls)	2310
SAND CONTENT (% by volume)					

[illegible]

Baite (sacked)	25 Kg Sack	195	400	0	495	Desander	Size	0		0	0	0	0
Caustic Soda	25 Kg Drum	0	32	0	32	Desilter	Cone	0	No.	0	0	0	0

Defoam-A	25 kg Drum	0	32	0	32	Centrifuge 1		0	0	0	0

Flowzan	25 Kg Sack	40	120	0	160	Degasser		0	SOLIDS ANALYSIS		

JK-261 LV	25 Kg	0	120	0	120			0	LGS %	3.1

Kwikseal (med)	18 Kg Sack	0	50	0	50			0	Salt %	0.098

Omyacarb 20	25 Kg	0	96	0	96			

Rheochem Engineer: Kellie Jericho Carissa Thompson **Office:** Perth **Telephone:** 0894108214 **Fax:** 0894108214

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RHEOCHEM

DAILY MUD VOLUME ACCOUNT

Date: 21/05/2008

Report No 6

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			7	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)				Comments
		Current	Capacity	MW (ppg)		
1	Reserve	29	225	8.75	Gel	
2	Reserve	43	333	8.75	Gel	
3a	Reserve	30	237	8.75	Gel	
3b	Reserve	31	237	8.75	Gel	
4	Reserve	282	473	8.75	Gel	
5	Reserve	64	495	8.75	Gel	
Slug Pit	Active	72	77	8.6	Seawater	

VOLUME SUMMARY:

	+	-
Starting Volume:	2310	
Current Tank Volume:	72	
Total Hole Volume(inc riser):	1759	
Other Volume In Hole:		
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:	479	
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	2310	bbls



Daily Inventory

Well: Jarver-1
 Report No: 6
 Report Date: 21/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
Barite (ex ANZON)	1000 Kg	65				65			65
Barite (sacked)	25 Kg Sack	95		385	400	880			495
Bentonite FOB (Melbourne)	1000 Kg	27		37		64			27
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum				32	32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack				40	40			40
Defoam-A	25 Ltr Drum				32	32			32
Drispac SL	25 Kg Sack				120	120			120
Flowzan	25 Kg Sack	40			120	160			160
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum				32	32			32
JK-261 LV	25 Kg				120	120			120
KCl (sacked)	25 Kg Sack			40	240	280			240
Kwikseal (med)	18 Kg Sack				50	50			50
Nutplug	25 Kg Sack				40	40			40
Omyacarb 20	25 Kg				96	96			96
SAPP	25 Kg Sack				40	40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate	25 Kg Sack				48	48			48
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14
Sodium Sulphite	25 Kg				40	40			40



Report #	7	Total MD	1407	to	1407	m
Rig #	OCEAN PATRIOT	Total VD	1407	to	1407	m
Date	22/05/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			762	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 18.73	No Bit	0	0	0	0	0	0.00 Riser Length	597 m	HOLE 0	PITS 72	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS psi	
DRILL PIPE SIZE (") 5	TYPE	LENGTH 0 m							30 Conductor @	642 m	TOTAL CIRCULATING VOL. 72		PUMP MODEL National	% EFFICIENCY 97
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m					20 Surface @	1,400 m	RESERVE PITS 230		BBL / STK	STK / MIN	BOTTOMS UP 0 min	
DRILL COLLAR SIZE (") 8	0	LENGTH 0	0	0	0	0	Intermediate @	m	STORAGE TANKS 0		BBL / MIN	GAL / MIN	TOTAL CIRC TIME min	
							Prod. or LNR @	m						

SAMPLE FROM	Pit	Pit	Pit	MW	alap	MFV	100	pH	9-10
MUD TYPE	SWPH	SWPH	SWPH	10s Gel	>15	10m Gel	>40	6 RPM	>40

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type					Hours	OF	UF	GPM Feed
Barite FOB (Portland)	1000 Kg	0	36	0	36	Desander	Cone Size	0	No.		0	0	0	0
						Desilter	Cone Size	0	No.		0	0	0	0
						Mud Cleaner					0	0	0	0
						Centrifuge 1					0	0	0	0
						Centrifuge 2					0	0	0	0
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.0
											0	LGS %		3.1
											0	Drilled Solids %		
											0	Salt %		0.105
											0			

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RHEOCHEM

DAILY MUD VOLUME ACCOUNT

Date: 22/05/2008

Report No 7

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	2008	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	2008	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		0	bbl
TOTAL DISPOSED:		2008	bbl
Interval losses (bbl/ft/m):		10	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)				Comments
		Current	Capacity	MW (ppg)		
1	Reserve		225			
2	Reserve		333			
3a	Reserve	230	237	8.75	PHG	
3b	Reserve		237			
4	Reserve		473			
5	Reserve		495			
Slug Pit	Active	72	77	8.6	Seawater	

VOLUME SUMMARY:

	+	-
Starting Volume:	2310	
Current Tank Volume:	72	
Total Hole Volume(inc riser):		
Other Volume In Hole:	906	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:	230	
Total Disposed:		2008
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	302	bbls



Daily Inventory

Well: Jarver-1
 Report No: 7
 Report Date: 22/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
Barite (ex ANZON)	1000 Kg	65				65			65
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg				36	36			36
Bentonite FOB (Melbourne)	1000 Kg	27		37		64			27
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	40				40			40
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	120				120			120
Flowzan	25 Kg Sack	160				160			160
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	120				120			120
KCl (sacked)	25 Kg Sack	240		40		280			240
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate	25 Kg Sack	48				48			48
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14
Sodium Sulphite	25 Kg	40				40			40

 WATER BASED MUD Daily Drilling Report	Report # 8		Total MD 1407 to 1407 m		
	Rig # OCEAN PATRIOT		Total VD 1407 to 1407 m		
	Date 23/05/2008		Daily Depth Drilled 0 m		
	Spud Date 16/05/2008		Interval Depth Drilled 0 m		
OPERATOR Santos Ltd			CONTRACTOR Diamond Offshore		
REPORT FOR Peter Devine/Nathan Peri			REPORT FOR Troy Williams/ David Broussard		
WELL NAME AND No. Jarver-1			FIELD T/33P		LOCATION STATE Sorrel Basin Tasmania
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)
BIT SIZE (") 17.5	No Bit	0 0 0 0 0 0	0.00 Riser Length 597 m		HOLE 0 PITS 72
DRILL PIPE SIZE (") 5	TYPE	LENGTH 0 m	30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 72
DRILL PIPE SIZE (") 6.53	TYPE	LENGTH 0 m	20 Surface @ 1,400 m		RESERVE PITS 2075
DRILL COLLAR SIZE (") 8	HW 0	LENGTH 0 0 0 m	Intermediate @ m		STORAGE TANKS 0
			Prod. or LNR @ m		BBL / MIN GAL / MIN
					CIRCULATION DATA
					PUMP SIZE 6 x 12 Inches
					CIRCULATION PRESS psi
					PUMP MODEL National
					% EFFICIENCY 97
					SURFACE TO BIT 0 min
					BOTTOMS UP 0 min
					TOTAL CIRC TIME min
MUD PROPERTIES					
MUD PROPERTY SPECIFICATIONS					
SAMPLE FROM		Pit		Pit	
MUD TYPE		SWPH		KGLY	
TIME SAMPLE TAKEN		4:00		16:00	
FLOWLINE TEMPERATURE °F		65		65	
TOTAL MEASURED DEPTH (TMD) Metres		1407		1407	
WEIGHT ppg / SG		8.8 1.05		8.8 1.05 9.6 1.15	
FUNNEL VISCOSITY (sec / qt) API @ °F		280		285	
RHEOLOGY 600 : 300 RPM °F		106 90		107 91	
RHEOLOGY 200 : 100 RPM °F		78 71		79 70	
RHEOLOGY 6 : 3 RPM °F		67 65		68 66	
PLASTIC VISCOSITY cP @ °F		16		16	
YIELD POINT (lb / 100FT) °F		74		75	
GEL STRENGTH (lb / 100FT) 10sec/10min/30min		54 57		53 56	
n K (lb/100 ft)					
API FILTRATE (cm / 30 min.)					
HPHT FILTRATE (cm / 30 min.) °F					
API : HPHT (Cake / 32nd in.)					
pH		9.5		9.5 10.5	
ALKALINITY MUD (Pm)					
ALKALINITY FILTRATE (Pf / Mf)		0.20 0.3		0.20 0.3 0.25 0.9	
CHLORIDE (mg / L)		1,350		1,400 125,000	
TOTAL HARDNESS AS CALCIUM (mg / L)		20		20 240	
SULPHITE (mg / L)				180	
PHPA (Calc ppb)					
GLYCOL CONTENT (% V/V)				6	
K+ (mg / L)				85923.598	
KCl (% by Wt.)				15.9	
METHYLENE BLUE CAPACITY (ppb equiv/%)					
SOLIDS CONTENT (% by volume) Calc		3.13		3.13 1.09	
LIQUID CONTENT (% by volume) Calc		96.88		96.88 98.91	
SAND CONTENT (% by volume)					
MUD COMMENTS					
Received 1350bbl KCL/NaCl/GLYCOL Brine from Pacific Wrangler into pits 1, 2, 3B and Solids Control Pits. Dressed Shakers 2, 3 and 4 with SWACO 84's (API 60's) and Shaker 1 with SWACO 165'S (API 80's). Sorted through and organised USED screens remaining onboard and arranged for some to be discarded. Kept 230bbls PHG Hi-vis Pill for 17.5" displacement. Commenced mixing Mud in Pits 4 and 5. Completing mixing at time of report. Charged all Brine received off the Pacific Wrangler on today's report. Mud Check 3 on the Brine.					
OPERATIONAL COMMENTS					
R/U and Run BOP and Riser to 340m at time of report. Estimated date to start drilling 17½" section; 25th May.					
Water Source		Supply Boats			
MUD ACCOUNTING (BBLs)				SUMMARY	
FLUID BUILT		FLUID DISPOSED		Start Vol	302
Drill Water	489	S.C.E.	0	Boat Rcd	1350
Chemical	6	Discharge	0	Boat Bk	0
Seawater	0	Downhole	0	Built	495
Other	0	Other	0	Lost sub	0
RECEIVED	495	LOST	0	Lost srf	0
TOTAL MUD ON RIG (bbls)					2147
PRODUCT USAGE					
Product	UnitSize	Start	Received	Used	Close
KCl / NaCl / Glycol Premix_	0 bbl	0	760	760	0
KCl / Glycol / Premix_*RIG	0 bbl	0	590	590	0
Flowzan	25 Kg Sack	160	0	22	138
Drispac SL	25 Kg Sack	120	0	20	100
JK-261 LV	25 Kg	120	0	10	110
SOLIDS CONTROL EQUIPMENT					
Type	Cone Size	No.	Hours	OF	UF
Desander	0	No.	0	0	0
Desilter	0	No.	0	0	0
Mud Cleaner			0	0	0
Centrifuge 1			0	0	0
Centrifuge 2			0	0	0
Degasser			0	SOLIDS ANALYSIS	
Cuttings Dryer			0	HGS %	0.0
Shale Shaker #1	10/165/165		0	LGS %	1.1
Shale Shaker #2	10/84/84		0	Drilled Solids %	
Shale Shaker #3	10/84/84		0	Salt %	8.324
Shale Shaker #4	10/84/84		0		
Rheochem Engineer: Kellie Jericho Carissa Thompson Office: Perth Telephone: 0894108214 Fax: 0894108214					

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RHEOCHEM

Date: 23/05/2008

Report No 8

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	489	bbl
Chemical Volume added	6	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	495	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	
TOTAL RECEIVED FROM LMP:	1350

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	BBL/HR FOR hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		0	bbl
TOTAL DISPOSED:		0	bbl
Interval losses (bbl/ft/m):		0	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	227	225	9.5	KCL/Glycol/NaCl Brine
2	Reserve	333	333	9.5	KCL/Glycol/NaCl Brine
3a	Reserve	230	237	8.75	PHG
3b	Reserve	240	237	9.5	KCL/Glycol/NaCl Brine
4	Reserve	475	473	8.9	Premix
5	Reserve	475	495	8.9	Premix
Slug Pit	Active	72	77	8.6	S/W
Sand Trap	Reserve	15	54	9.5	KCL/Glycol/NaCl Brine
Settling Pits	Reserve	80	81	9.5	KCL/Glycol/NaCl Brine

VOLUME SUMMARY:

	+	-
Starting Volume:	302	
Current Tank Volume:	72	
Total Hole Volume(inc riser):		
Other Volume In Hole:	905	
Total Riser Volume:		
Total Received:	495	
Total Storage:		
Total Reserve:	2075	
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:	1350	
TOTAL MUD AT RIGSITE	2147	bbls



Daily Inventory

Well: Jarver-1
Report No: 8
Report Date: 23/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl		590	590	590	590			
Barite (ex ANZON)	1000 Kg	65				65			65
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	36				36			36
Bentonite FOB (Melbourne)	1000 Kg	27		37		64			27
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	40				40			40
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	120	20	20		120			100
Flowzan	25 Kg Sack	160	22	22		160			138
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	120	10	10		120			110
KCl (sacked)	25 Kg Sack	240		40		280			240
KCl / NaCl / Glycol Premix_*RIG*	0 bbl		760	760	760	760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate	25 Kg Sack	48				48			48
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14
Sodium Sulphite	25 Kg	40				40			40



Report #	9	Total MD	1407	to	1407	m
Rig #	OCEAN PATRIOT	Total VD	1407	to	1407	m
Date	24/05/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			0	m

MUD PROPERTIES	MUD PROPERTY SPECIFICATIONS

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type					Hours	OF	UF	GPM Feed
Flowzan	25 Kg Sack	138	0	9	129	Desander	Cone Size	0	No.		0	0	0	0
Drispac SL	25 Kg Sack	100	0	6	94	Desilter	Cone Size	0	No.		0	0	0	0
Barite (ex ANZON)	1000 Kg	65	47	0	112	Mud Cleaner					0	0	0	0
						Centrifuge 1					0	0	0	0
						Centrifuge 2					0	0	0	0
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.0
						Shale Shaker #1	10/165/165					LGS %		0.5
						Shale Shaker #2	10/84/84					Drilled Solids %		0.519
						Shale Shaker #3	10/84/84					Salt %		3.435
						Shale Shaker #4	10/84/84							

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RHEOCHEM

Date: 24/05/2008

Report No 9

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added	1	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	1	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			0	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	227	225	9.5	KCL/Glycol/NaCl Brine
2	Reserve	333	333	9.5	KCL/Glycol/NaCl Brine
3a	Reserve	230	237	8.75	PHG
3b	Reserve	240	237	9.5	KCL/Glycol/NaCl Brine
4	Reserve	475	473	8.9	Premix
5	Reserve	476	495	8.9	Premix
Slug Pit	Active	72	77	8.6	S/W
Sand Trap	Reserve	15	54	9.5	KCL/Glycol/NaCl Brine
Settling Pits	Reserve	80	81	9.5	KCL/Glycol/NaCl Brine

VOLUME SUMMARY:

	+	-
Starting Volume:	2147	
Current Tank Volume:	72	
Total Hole Volume(inc riser):		
Other Volume In Hole:	1648	
Total Riser Volume:	742	
Total Received:	1	
Total Storage:		
Total Reserve:	2076	
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	2148	bbls



Daily Inventory

Well: Jarver-1
Report No: 9
Report Date: 24/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			590		590			
Barite (ex ANZON)	1000 Kg	65			47	112			112
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	36				36			36
Bentonite FOB (Melbourne)	1000 Kg	27		37		64			27
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	40				40			40
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	100	6	26		120			94
Flowzan	25 Kg Sack	138	9	31		160			129
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	110		10		120			110
KCl (sacked)	25 Kg Sack	240		40		280			240
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate	25 Kg Sack	48				48			48
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14
Sodium Sulphite	25 Kg	40				40			40



Report #	10	Total MD	1407	to	1407	m
Rig #	OCEAN PATRIOT	Total VD	1407	to	1407	m
Date	25/05/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			0	m

MUD PROPERTIES	MUD PROPERTY SPECIFICATIONS

PRODUCT USAGE	SOLIDS CONTROL EQUIPMENT

Rheochem Engineer: Kellie Jericho Carissa Thompson **Office:** Perth **Telephone:** 0894108214 **Fax:** 0894108214

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RHEOCHEM

Date: 25/05/2008

Report No 10

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			0	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	227	225	9.5	KCl/Glycol/NaCl Brine
2	Reserve	333	333	9.5	KCl/Glycol/NaCl Brine
3a	Reserve	230	237	8.75	PHG
3b	Reserve	240	237	9.5	KCl/Glycol/NaCl Brine
4	Reserve	475	473	8.9	Premix
5	Reserve	476	495	8.9	Premix
Slug Pit	Active	72	77	8.6	S/W
Sand Trap	Reserve	15	54	9.5	KCl/Glycol/NaCl Brine
Settling Pits	Reserve	80	81	9.5	KCl/Glycol/NaCl Brine

VOLUME SUMMARY:

	+	-
Starting Volume:	2148	
Current Tank Volume:	72	
Total Hole Volume(inc riser):		
Other Volume In Hole:	1648	
Total Riser Volume:	742	
Total Received:		
Total Storage:		
Total Reserve:	2076	
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	2148	bbls



Daily Inventory

Well: Jarver-1
Report No: 10
Report Date: 25/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			590		590			
Barite (ex ANZON)	1000 Kg	112				112			112
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	36				36			36
Bentonite FOB (Melbourne)	1000 Kg	27		37		64			27
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	40				40			40
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	94		26		120			94
Flowzan	25 Kg Sack	129		31		160			129
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	110		10		120			110
KCl (sacked)	25 Kg Sack	240		40		280			240
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate	25 Kg Sack	48				48			48
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14
Sodium Sulphite	25 Kg	40				40			40

 WATER BASED MUD Daily Drilling Report	Report #	11	Total MD	1407	to	1407	m								
	Rig #	OCEAN PATRIOT	Total VD	1407	to	1407	m								
	Date	26/05/2008	Daily Depth Drilled	0 m											
	Spud Date	16/05/2008	Interval Depth Drilled	0 m											
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore							
REPORT FOR			Peter Devine/Nathan Peri		REPORT FOR			Troy Williams/ David Broussard							
WELL NAME AND No.			Jarver-1		FIELD		LOCATION		STATE						
					T/33P		Sorell Basin		Tasmania						
BHA	BIT TYPE	JET SIZE		DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA							
BIT SIZE (")	Hughes	24	24	15	14	0	HOLE	PITS	PUMP SIZE						
17.5		0	0	0	0	0	0	0	6 x 12 Inches						
DRILL PIPE SIZE (")	TYPE	LENGTH		30 Conductor @		TOTAL CIRCULATING VOL.		PUMP MODEL							
5		0 m		642 m		0		National							
DRILL PIPE SIZE (")	TYPE	LENGTH		20 Surface @		RESERVE PITS		% EFFICIENCY							
6.53		0 m		1,400 m		2148		97							
DRILL COLLAR SIZE (")	HW	LENGTH		Intermediate @		STORAGE TANKS		BBL / STK							
8		101		m		0		STK / MIN							
	8.25	25		m				BBL / MIN							
								GAL / MIN							
								TOTAL CIRC TIME							
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS										
SAMPLE FROM				Pit	Pit	Pit	MW	8.9-9.5	API FL	<8	KCI	8.0			
MUD TYPE				KGLY	KGLY	KGLY	Hardne	<400	6 RPM	13-16	LGS	<5			
TIME SAMPLE TAKEN				4:00	16:00	19:00	MUD COMMENTS								
FLOWLINE TEMPERATURE °F				72	70	68	Check calibration of mud balances in Pit Room and Shakerhouse. Dress Shakers #1 with 84 mesh screens. Prepare mud for 17.5" displacement. Handout mud displacement procedure instructions to rig personnel. Pits 3A/3B/4/5 will be blended and utilised to suffice volume for initial displacement, whilst reserve KCl-Glycol brine will be transferred for further mixing during/after displacement.								
TOTAL MEASURED DEPTH (TMD) Metres				1407	1407	1407									
WEIGHT ppg / SG				8.9	1.07	8.9							1.07	8.9	1.07
FUNNEL VISCOSITY (sec / qt) API @ 120 °F				74	72	75									
RHEOLOGY 600 : 300 RPM 120 °F				59	45	59	44	59	44	Continue to work on motion compensator. Break out L/D Anderdrift tool. M/U 17.5" Rotary BHA with Schlumberger. Surface test MWD. RIH to 126m at time of report.					
RHEOLOGY 200 : 100 RPM 120 °F				37	28	37	28	37	28						
RHEOLOGY 6 : 3 RPM 120 °F				12	9	12	9	12	9						
PLASTIC VISCOSITY cP @ 120 °F				14	15	15									
YIELD POINT (lb / 100FT) 2 120 °F				31	29	29	Water Source Supply Boats								
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min				10	14	10							13	10	13
n K (lb/100 ft)				0.42	3.15	0.42							3.15	0.42	3.15
API FILTRATE (cm / 30 min.)				14	14	14									
HPHT FILTRATE (cm / 30 min.) °F							MUD ACCOUNTING (BBLs) SUMMARY								
API : HPHT (Cake / 32nd in.)				1	1	1									
pH				9.3	9.3	9.3									
ALKALINITY MUD (Pm)				0.3	0.3	0.2									
ALKALINITY FILTRATE (Pf / Mf)				0.12	0.9	0.10	0.9	0.10	0.9	FLUID BUILT FLUID DISPOSED Start Vol 2148					
CHLORIDE (mg / L)				55,000	56,000	56,000									
TOTAL HARDNESS AS CALCIUM (mg / L)				200	200	200									
SULPHITE (mg / L)				150	150	150									
PHPA (Calc ppb)				0.50	0.50	0.50	Drill Water			0	S.C.E.	0	Boat Rcd	0	
GLYCOL CONTENT (% V/V)				3	3	3	Chemical			0	Discharge	0	Boat Bk	0	
K+ (mg / L)				43232	43232	43232	Seawater			0	Downhole	0	Built	0	
KCl (% by Wt.)				8.0	8.0	8.0	Other			0	Other	0	Lost sub	0	
METHYLENE BLUE CAPACITY (ppb equiv/%)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Lost srf	0	
SOLIDS CONTENT (% by volume) Calc				0.91	0.52	0.52	RECEIVED			0	LOST	0	TOTAL MUD ON RIG (bbls) 2148		
LIQUID CONTENT (% by volume) Calc				99.09	99.48	99.48									
SAND CONTENT (% by volume)				0	0	0									
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT									
Product	UnitSize	Start	Received	Used	Close	Type	Cone Size	0	No.	Hours	OF	UF	GPM Feed		
						Desander	Cone Size	0	No.	0	0	0	0		
						Desilter	Cone Size	0	No.	0	0	0	0		
						Mud Cleaner				0	0	0	0		
						Centrifuge 1				0	0	0	0		
						Centrifuge 2				0	0	0	0		
						Degasser				0	SOLIDS ANALYSIS				
						Cuttings Dryer				0	HGS %		0.0		
						Shale Shaker #1	10/84/84			0	LGS %		0.5		
						Shale Shaker #2	10/84/84			0	Drilled Solids %		0.519		
						Shale Shaker #3	10/84/84			0	Salt %		3.498		
						Shale Shaker #4	10/84/84			0					
Rheochem Engineer: Carissa Thompson Christian Dimarco						Office: Perth		Telephone: +61 8 9410 8200		Fax: +61 8 9410 8299					

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RHEOCHEM

Date: 26/05/2008

Report No 11

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			0	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	227	225	9.5	KCl-Glycol Brine Concentrate
2	Reserve	333	333	9.5	KCl-Glycol Brine Concentrate
3a	Reserve	230	237	8.9	KCl-Glycol-PHPA Premix
3b	Reserve	240	237	8.9	KCl-Glycol-PHPA Premix
4	Reserve	475	473	8.9	KCl-Glycol-PHPA Premix
5	Reserve	476	495	8.9	KCl-Glycol-PHPA Premix
Slug Pit	Reserve	72	77	8.6	Seawater
Sand Trap	Reserve	15	54	9.5	KCl-Glycol Brine Concentrate
Settling Pits	Reserve	80	81	9.5	KCl-Glycol Brine Concentrate

VOLUME SUMMARY:

	+	-
Starting Volume:	2148	
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1625	
Total Riser Volume:	742	
Total Received:		
Total Storage:		
Total Reserve:	2148	
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	2148	bbls



Daily Inventory

Well: Jarver-1
 Report No: 11
 Report Date: 26/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			590		590			
Barite (ex ANZON)	1000 Kg	112				112			112
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	36				36			36
Bentonite FOB (Melbourne)	1000 Kg	27		37		64			27
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	40				40			40
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	94		26		120			94
Flowzan	25 Kg Sack	129		31		160			129
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	110		10		120			110
KCl (sacked)	25 Kg Sack	240		40		280			240
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate	25 Kg Sack	48				48			48
Sodium Bicarbonate (ex ANZON)	25 Kg	14				14			14
Sodium Sulphite	25 Kg	40				40			40

 WATER BASED MUD Daily Drilling Report	Report #	12	Total MD	1407	to	1407	m					
	Rig #	OCEAN PATRIOT	Total VD	1407	to	1407	m					
	Date	27/05/2008	Daily Depth Drilled	0 m								
	Spud Date	16/05/2008	Interval Depth Drilled	0 m								
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore				
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ David Broussard				
WELL NAME AND No.			Jarver-1		FIELD		T/33P					
					LOCATION		Sorell Basin					
					STATE		Tasmania					
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA					
BIT SIZE (")	Hughes	24 24 15 14 0	19.75 Riser Length 597 m		HOLE 1647	PITS 359	PUMP SIZE 6 x 12 Inches	CIRCULATION PRESS psi				
DRILL PIPE SIZE (")	TYPE	LENGTH 0 m	30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 2006		PUMP MODEL National	% EFFICIENCY 97				
DRILL PIPE SIZE (")	TYPE	LENGTH 0 m	20 Surface @ 1,400 m		RESERVE PITS 1277		BBL / STK 0.1018	STK / MIN 200				
DRILL COLLAR SIZE (")	HW	LENGTH 0 m	Intermediate @ m		STORAGE TANKS 0		BBL / MIN 20.36	GAL / MIN 855				
DRILL COLLAR SIZE (")	8.25	0 0 m	Prod. or LNR @ m				BOTTOMS UP 73 min	TOTAL CIRC TIME 95 min				
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS							
SAMPLE FROM			Pit	Pit	FL		MW 8.9-9.5	API FL <8				
MUD TYPE			KGLY	KGLY	KGLY		Hardne <400	6 RPM				
TIME SAMPLE TAKEN			1:30	11:30	20:00		MUD COMMENTS					
FLOWLINE TEMPERATURE °F			70	74	75		Built vol of 1300bbls in Pits 1, 4, 5 for displacement & reserve vol for drilling ahead.					
TOTAL MEASURED DEPTH (TMD) Metres			1407	1407	1407		After tagging top of cement mud was treated w/ 0.25ppb S-Bicarb & Citric Acid.					
WEIGHT ppg / SG			8.9	1.07	9.0	1.08	9.0	1.08				
FUNNEL VISCOSITY (sec / qt) API @ 120 °F			75	61	65		In Pit 1, 1.5ppb PHPA was added, which will be bled into the active while drilling to increase PHPA conc & replenish any depletion.					
RHEOLOGY 600 : 300 RPM 120 °F			60	45	59	44	58	44				
RHEOLOGY 200 : 100 RPM 120 °F			38	28	37	28	38	28				
RHEOLOGY 6 : 3 RPM 120 °F			12	9	12	9	13	11				
PLASTIC VISCOSITY cP @ 120 °F			15	15	14		Cont'd to closely monitor mud prop while circulating.					
YIELD POINT (lb / 100FT) 2 120 °F			30	29	30		Flowzan was added directly to increase 6rpm reading.					
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min			10	13	10	13	12	14				
n K (lb/100 ft)			0.40	3.67	0.40	3.67	0.40	3.67				
API FILTRATE (cm / 30 min.)			14.0	10.0	9.9		Received 549bbl KCL/Glycol Brine (charged-off today) & mud chems from Pacific Wrangler.					
HPHT FILTRATE (cm / 30 min.) °F							OPERATIONAL COMMENTS					
API : HPHT (Cake / 32nd in.)			1	1	1		Cont'd to RIH. Tagged cement @ 1381 m. Displaced to KCI-Glycol-PHPA from pits 3a, 3b, 4 & 5, then made additional premixes to rebuild surface volume to complete displacement. Displaced the hole w/ 1592bbls of KCL/PHPA/Glycol mud. Discharged 7bbls mud during displacement. The initial circ of new mud exper'd blinding at the shakers, therefore temporarily down sized front panels to 10-mesh until mud was adequately sheared.					
pH			9.3	9.5	9.2		Adjusted shaker screens mesh size as permitted by flow handling. Drilling the float was difficult w/ slow ROP's, and after such effort it was decided to POOH to inspect the bit. Prepared & pumped HW slug & commenced POOH. POOH to surface at midnight.					
ALKALINITY MUD (Pm)			0.2	0.3	0.3		Water Source Supply Boat					
ALKALINITY FILTRATE (Pf / Mf)			0.10	0.9	0.20	1.1	0.20	1.0				
CHLORIDE (mg / L)			56,000	57,000	56,000		MUD ACCOUNTING (BBLs)					
TOTAL HARDNESS AS CALCIUM (mg / L)			200	300	320		SUMMARY					
SULPHITE (mg / L)			150	150	150		FLUID BUILT					
PHPA (Calc ppb)			0.50	0.50	0.50		FLUID DISPOSED					
GLYCOL CONTENT (% V/V)			3	3	3		Start Vol 2148					
K+ (mg / L)			43232	43232	43232		Drill Water 600 S.C.E. 21 Boat Rcd 549					
KCl (% by Wt.)			8.0	8.0	8.0		Chemical 14 Discharge 0 Boat Bk 0					
METHYLENE BLUE CAPACITY (ppb equiv/%)			0.0	0.0	2.5	0.3	2.5	0.3				
SOLIDS CONTENT (% by volume) Calc			0.52	1.30	1.30		Seawater 0 Downhole 0 Built 614					
LIQUID CONTENT (% by volume) Calc			99.48	98.70	98.70		Other 0 Other 7 Lost sub 0					
SAND CONTENT (% by volume)			0	0	0		RECEIVED 614 LOST 28					
							TOTAL MUD ON RIG (bbls) 3283					
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type	Cone Size	No.	Hours	OF	UF	GPM Feed
KCl / Glycol / Premix_*RIG	0 bbl	0	549	549	0	Desander	0	No.	0	0	0	0
Flowzan	25 Kg Sack	129	40	58	111	Desilter	0	No.	0	0	0	0
Drispac SL	25 Kg Sack	94	80	38	136	Mud Cleaner			0	0	0	0
JK-261 LV	25 Kg	110	80	17	173	Centrifuge 1			0	0	0	0
Citric Acid	25 Kg Sack	40	0	9	31	Centrifuge 2			0	0	0	0
Sodium Bicarbonate (ex A	25 Kg	14	0	9	5	Degasser			0	SOLIDS ANALYSIS		
Sand Seal (fine)	25 Kg Sack	0	20	0	20	Cuttings Dryer			0	HGS %	0.0	
						Shale Shaker #1	10/165/165		18	LGS %	1.3	
						Shale Shaker #2	10/84/84		18	Drilled Solids %	1.024	
						Shale Shaker #3	10/84/84		18	Salt %	3.498	
						Shale Shaker #4	10/84/84		15			
Rheochem Engineer: Carissa Thompson Christian Dimarco						Office: Perth		Telephone: +61 8 9410 8200		Fax: +61 8 9410 8299		

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the



RHEOCHEM

Date: 27/05/2008

Report No 12

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	600	bbl
Chemical Volume added	14	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	614	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	549

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	21	bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:	7	bbl
Surface Losses Subtotal:	28	bbl

SEEPAGE LOSSES:	0	BBL/HR FOR	0	hr		bbl
LOST CIRCULATION:						bbl
LOST BEHIND CASING/LEFT DOWNHOLE:						bbl
OTHER SUB-SURFACE LOSSES:						bbl
Sub-surface Losses Subtotal:					0	bbl
TOTAL DISPOSED:					28	bbl
Interval losses (bbl/ft/m):					0	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			MW (ppg)	Comments
		Current	Capacity			
1	Reserve	210	230	9.2		Concentrated PHPA
2	Reserve	329	342	9.5		BRINE
3a	Active	177	243	9		KCL/PHPA/Glycol
3b	Active	177	243	9		KCL/PHPA/Glycol
4	Reserve	250	508	9.5		BRINE
5	Reserve	300	508	9		Premix
Slug Pit	Reserve	71	79	8.34		Drill water
Trip Tank	Active	5	70	9		KCL/PHPA/Glycol
Sand Trap	Reserve	44	54	9		KCL/PHPA/Glycol
Settling Pits	Reserve	73	81	9		KCL/PHPA/Glycol

VOLUME SUMMARY:

	+	-
Starting Volume:	2148	
Current Tank Volume:	359	
Total Hole Volume(inc riser):	1647	
Other Volume In Hole:		
Total Riser Volume:	742	
Total Received:	614	
Total Storage:		
Total Reserve:	1277	
Total Disposed:		28
Total Backloaded to LMP:		
Total Received from LMP:	549	
TOTAL MUD AT RIGSITE	3283	bbls



Daily Inventory

Well: Jarver-1
Report No: 12
Report Date: 27/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl		549	1,139	549	1,139			
Barite (ex ANZON)	1000 Kg	112				112			112
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	36				36			36
Bentonite FOB (Melbourne)	1000 Kg	27		37		64			27
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	40	9	9		40			31
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	94	38	64	80	200			136
Flowzan	25 Kg Sack	129	58	89	40	200			111
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	110	17	27	80	200			173
KCl (sacked)	25 Kg Sack	240		40		280			240
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack				20	20			20
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate	25 Kg Sack	48				48			48
Sodium Bicarbonate (ex ANZON)	25 Kg	14	9	9		14			5
Sodium Sulphite	25 Kg	40				40			40

 WATER BASED MUD Daily Drilling Report	Report #	13	Total MD	1407	to	1720	m					
	Rig #	OCEAN PATRIOT	Total VD	1407	to	1720	m					
	Date	28/05/2008	Daily Depth Drilled			313	m					
	Spud Date	16/05/2008	Interval Depth Drilled			313	m					
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore				
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ David Broussard				
WELL NAME AND No.			Jarver-1		FIELD		LOCATION		STATE			
					T/33P		Sorell Basin		Tasmania			
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA					
BIT SIZE (")	Hughes	24 24 15 14 0	19.75 Riser Length 597 m		HOLE 1882	PITS 528	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS 2320 psi			
DRILL PIPE SIZE (")	5	LENGTH 1.441 m	30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 2410		PUMP MODEL National		% EFFICIENCY 97			
DRILL PIPE SIZE (")	6.53	LENGTH 141 m	20 Surface @ 1,399 m		RESERVE PITS 910		BBL / STK 0.1018		STK / MIN 210			
DRILL COLLAR SIZE (")	8	LENGTH 113 25 m	Intermediate @ m		STORAGE TANKS 0		BBL / MIN 21.38		GAL / MIN 898			
			Prod. or LNR @ m						TOTAL CIRC TIME 109 min			
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS							
SAMPLE FROM			Pit		Pit		FL		MW 8.9-9.5			
MUD TYPE			KGLY		KGLY		KGLY		API FL <8			
TIME SAMPLE TAKEN			1:30		11:30		23:00		KCI 8.0			
FLOWLINE TEMPERATURE °F			71		72		85		Hardne <400			
TOTAL MEASURED DEPTH (TMD) Metres			1407		1424		1660		6 RPM 13-16			
WEIGHT ppg / SG			9.0 1.08		9.1 1.09		9.4 1.13		LGS <5			
FUNNEL VISCOSITY (sec / qt) API @ 120 °F			71		70		72		MUD COMMENTS			
RHEOLOGY 600 : 300 RPM 120 °F			59 44		61 46		60 45		Treated Active w/ S-Bicarb & Citrc Acid while drilling shoe track. Added Flowzan to maintain 6rpm specs. Premix was transf'd to withhold mud program parameters & concentrated 1.5ppb PHPA was bled to active to increase conc.			
RHEOLOGY 200 : 100 RPM 120 °F			38 28		39 30		37 27		Mixed 800bbls premix with brine & drill water (pits 4 &5). Onlined 2 x Centrifuges at 21:45hrs to reduce LGS/Mud-wt.			
RHEOLOGY 6 : 3 RPM 120 °F			12 9		13 11		13 11		Transferred 850bbls KCL/Glycol Brine & mud chems from Pacific Wrangler to Far Grip. Received onboard 75MT Barite (PORTLAND) from P-Wrangler.			
PLASTIC VISCOSITY cP@ 120 °F			15		15		15		Adjusted stock & corrected inventory; Sodium Sulphite & Barite (ex ANZON).			
YIELD POINT (lb / 100FT) 2 120 °F			29		31		30		OPERATIONAL COMMENTS			
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min			10 13		12 15		12 15		Changed bit & RIH. Cont'd to drill cement plugs & shoe track. Drilled 3m new FM. LOT - EMW=11.4ppg. Circ'd BU, 84-mesh screens were blinded w/ SST. Top scalper screens were changed to 20-mesh & 40-mesh to sieve solids & manage flow. Whilst drilling ahead pumping rates were manipulated to mitigate excessive losses over the shakers. Attempted to screen-up to 165-mesh, however, this was unsuccessful due to heavy losses.			
n K (lb/100 ft)			0.41 3.39		0.41 3.39		0.41 3.39		Evidence of Mud wt & LGS increase prompted the centrifugex2 to be onlined..			
API FILTRATE (cm / 30 min.)			8.0		8.0		7.0		Monitored cuttings, which presented good encap/inhibit. Prepared a 50bbls HiVis sweep at DRR request.			
HPHT FILTRATE (cm / 30 min.) °F									Water Source			
API : HPHT (Cake / 32nd in.)			1		1		1		Supply Boat			
pH			9.5		10.0		9.5		MUD ACCOUNTING (BBLs)			
ALKALINITY MUD (Pm)			0.3		0.4		0.3		SUMMARY			
ALKALINITY FILTRATE (Pf / Mf)			0.20 1.1		0.30 1.3		0.25 1.2		FLUID BUILT			
CHLORIDE (mg / L)			57,000		57,000		57,000		FLUID DISPOSED			
TOTAL HARDNESS AS CALCIUM (mg / L)			300		500		400		Drill Water			
SULPHITE (mg / L)			150		150		150		400			
PHPA (Calc ppb)			0.50		0.60		0.70		S.C.E.			
GLYCOL CONTENT (% V/V)			3		3		3		378			
K+ (mg / L)			43232		43232		43232		Discharge			
KCl (% by Wt.)			8.0		8.0		8.0		0			
METHYLENE BLUE CAPACITY (ppb equiv/%)			2.5 0.3		2.5 0.3		5.0 0.5		Boat Bk			
SOLIDS CONTENT (% by volume) Calc			1.30		1.69		4.42		0			
LIQUID CONTENT (% by volume) Calc			98.70		98.31		95.58		Built			
SAND CONTENT (% by volume)			0		0.1		1.0		415			
									Lost sub			
									Lost srf			
									378			
									TOTAL MUD ON RIG (bbls) 3320			
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type	Cone Size	No.	Hours	OF	UF	GPM Feed
Flowzan	25 Kg Sack	111	0	41	70	Desander	0	No.	0	0	0	0
Drispac SL	25 Kg Sack	136	0	26	110	Desilter	0	No.	0	0	0	0
Citric Acid	25 Kg Sack	31	0	21	10	Mud Cleaner			0	0	0	0
JK-261 LV	25 Kg	173	0	9	164	Centrifuge 1	MI SW FVS518		2	9.1	14.5	50
Sodium Bicarbonate (ex A	25 Kg	5	0	5	0	Centrifuge 2	MI SW FVS518		2	9.1	14.5	50
Sodium Bicarbonate	25 Kg Sack	48	0	4	44	Degasser			0	SOLIDS ANALYSIS		
Barite (ex ANZON)	1000 Kg	103	0	2	101	Cuttings Dryer			0	HGS %		0.0
Barite FOB (Portland)	1000 Kg	36	75	0	111	Shale Shaker #1	40/20/84/84		24	LGS %		4.4
						Shale Shaker #2	40/20/84/84		24	Drilled Solids %		3.866
						Shale Shaker #3	40/20/84/84		24	Salt %		3.560
						Shale Shaker #4	40/20/84/84		24			
Rheochem Engineer: Carissa Thompson Christian Dimarco						Office: Perth						
Telephone: +61 8 9410 8200						Fax: +61 8 9410 8299						

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RHEOCHEM

Date: 28/05/2008

Report No 13

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	400	bbl
Chemical Volume added	15	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	415	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	369	bbl
LOSSES TO CENTRIFUGE	9	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	378	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:	0		bbl
TOTAL DISPOSED:	378		bbl
Interval losses (bbl/ft/m):	3		

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	140	230	9.2	KCl/Glycol/PHPA (PHPA @ 1.5ppb)
2	Reserve	129	342	9.2	KCl/Glycol BRINE
3a	Active	155	243	9.45	KCl/Glycol/PHPA Active
3b	Active	158	243	9.45	KCl/Glycol/PHPA Active
4	Reserve	154	508	9.3	KCl/Glycol/PHPA Premix
5	Reserve	427	508	9.3	KCl/Glycol/PHPA Premix
Slug Pit	Reserve	60	79	9.45	HiVis sweep
Trip Tank	Active	21	70	9.45	KCl/Glycol/PHPA
Sand Trap	Active	44	54	9.45	KCl/Glycol/PHPA Active
Settling Pits	Active	80	81	9.45	KCl/Glycol/PHPA Active
Surface Lines	Active	70	80	9.45	Surface lines when circulating

VOLUME SUMMARY:

	+	-
Starting Volume:	3283	
Current Tank Volume:	528	
Total Hole Volume(inc riser):	1882	
Other Volume In Hole:		
Total Riser Volume:	742	
Total Received:	415	
Total Storage:		
Total Reserve:	910	
Total Disposed:		378
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	3320	bbls



Daily Inventory

Well: Jarver-1
Report No: 13
Report Date: 28/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			1,139		1,139			
Barite (ex ANZON)	1000 Kg	103	2	2		103			101
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	36			75	111			111
Bentonite FOB (Melbourne)	1000 Kg	27		37		64			27
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	31	21	30		40			10
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	136	26	90		200			110
Flowzan	25 Kg Sack	111	41	130		200			70
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	173	9	36		200			164
KCl (sacked)	25 Kg Sack	240		40		280			240
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	20				20			20
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6				6			6
Sodium Bicarbonate	25 Kg Sack	48	4	4		48			44
Sodium Bicarbonate (ex ANZON)	25 Kg	5	5	14		14			
Sodium Sulphite	25 Kg	35				35			35



WATER BASED MUD

Daily Drilling Report

Report #	14	Total MD	1720	to	1947	m
Rig #	OCEAN PATRIOT	Total VD	1720	to	1947	m
Date	29/05/2008	Daily Depth Drilled			227	m
Spud Date	16/05/2008	Interval Depth Drilled			540	m

OPERATOR	Santos Ltd	CONTRACTOR	Diamond Offshore	
REPORT FOR	Chris Roots/Nathan Peri	REPORT FOR	Troy Williams/ David Broussard	
WELL NAME AND No.	Jarver-1	FIELD	LOCATION	STATE
		T/33P	Sorell Basin	Tasmania

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 17.5	No Bit	0	0	0	0	0	19.75 Riser Length 597 m	HOLE 2130	PITS 33	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS 2573 psi		
DRILL PIPE SIZE (") 13.38	TYPE CSG	LENGTH 560 m						30 Conductor @ 642 m	TOTAL CIRCULATING VOL. 2163		PUMP MODEL National	% EFFICIENCY 97	SURFACE TO BIT 44 min	
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m						20 Surface @ 1,399 m	RESERVE PITS 1026		BBL / STK 0.1018	STK / MIN 215	BOTTOMS UP 50 min	
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0	0	0	0	Intermediate @ m		Prod. or LNR @ m	STORAGE TANKS 0		BBL / MIN 21.89	GAL / MIN 919	TOTAL CIRC TIME 95 min	

MUD PROPERTIES

MUD PROPERTY SPECIFICATIONS

SAMPLE FROM		Pit		FL		Pit		MW 8.9-9.5	API FL <8	KCI 8.0
MUD TYPE		KGLY		KGLY		KGLY		Hardne <400	6 RPM 13-16	LGS <5
TIME SAMPLE TAKEN		2:30		9:30		22:30		MUD COMMENTS		
FLOWLINE TEMPERATURE °F		78		78		70		Blended 440bbls drill water w/ 440bbls brine, mixed in treatment chemicals & transferred to the active to maintain circulating volume. Mixed 50bbls pumpable HW slug for POOH at section TD. USED - new 5x20-mesh & new 4x40-mesh screens. Received from Far Grip; 455bbls Brine. Transferred 26MT from Rig to Far Grip to relieve deckload on rig.		
TOTAL MEASURED DEPTH (TMD) Metres		1774		1936		1947				
WEIGHT ppg / SG		9.4	1.13	9.4	1.13	9.4	1.13	Non-corrected Retort solids = 10%.		
FUNNEL VISCOSITY (sec / qt) API @ 120 °F		73		75		75				
RHEOLOGY 600 : 300 RPM 120 °F		64	47	69	52	71	52	*** Tested Flowline mud sample @ 1936m (78F); yP = 38, 6rpm = 15.		
RHEOLOGY 200 : 100 RPM 120 °F		40	30	43	33	46	35			
RHEOLOGY 6 : 3 RPM 120 °F		12	9	13	10	13	11			
PLASTIC VISCOSITY cP @ 120 °F		17		17		19				
YIELD POINT (lb / 100FT) 120 °F		30		35		33				

OPERATIONAL COMMENTS

GEL STRENGTH (lb / 100FT @ 10sec/10min/30min)	10	13	16	11	14		12	14		Pumped 50bbls of HiVis sweep to verify hole cleaning (lost over shakers on B/U, noted as "other losses"); returns were consistent w/ no significant change in cuttings conveyance, which indicated good hole cleaning with current active mud rheology (see above mud comment). Drilled to 17.5" section TD @ 1947m, sampled FM for casing shoe competency (~90% SLT/CLY). Circ'd hole until shakers appeared sufficiently clean of cuttings. Pulled 5 stds wet, flow check, pumped HW slug & POOH to run 13 3/8" casing. R/U casing handling gear, RIH to 560m at report time. SCE - will bring online centrifuge(s) when circulating casing to reduce LGS for next section.																																																							
n K (lb/100 ft)	0.45	3.16		0.45	3.16		0.45	3.16																																																									
API FILTRATE (cm / 30 min.)	5.5		6.0		6.6																																																												
HPHT FILTRATE (cm / 30 min.) °F																																																																	
API : HPHT (Cake / 32nd in.)	1		1		1																																																												
pH	9.5		9.3		9.0																																																												
ALKALINITY MUD (Pm)	0.3		0.3		0.3																																																												
ALKALINITY FILTRATE (Pf / Mf)	0.20	1.2		0.14	1.1		0.15	1.1																																																									
CHLORIDE (mg / L)	53,000		53,000		53,000																																																												
TOTAL HARDNESS AS CALCIUM (mg / L)	400		500		400																																																												
SULPHITE (mg / L)	120		140		140																																																												
PHPA (Calc ppb)	0.70		0.70		0.60																																																												
GLYCOL CONTENT (% V/V)	3		3		3																																																												
K+ (mg / L)	43232		43232		43232																																																												
KCl (% by Wt.)	8.0		8.0		8.0																																																												
METHYLENE BLUE CAPACITY (ppb equiv/%)	5.0	0.5		6.2	0.7		6.2	0.7																																																									
SOLIDS CONTENT (% by volume) Calc	4.81		4.42		4.27																																																												
LIQUID CONTENT (% by volume) Calc	95.19		95.58		95.73																																																												
SAND CONTENT (% by volume)	1.0		1.1		1.0																																																												
<table><tr><td colspan="4">Water Source</td><td colspan="2">Supply Boats</td></tr><tr><td colspan="6">MUD ACCOUNTING (BBLS)</td><td colspan="2">SUMMARY</td></tr><tr><td colspan="2">FLUID BUILT</td><td colspan="2">FLUID DISPOSED</td><td>Start Vol</td><td>3320</td></tr><tr><td>Drill Water</td><td>440</td><td>S.C.E.</td><td>984</td><td>Boat Rcd</td><td>455</td></tr><tr><td>Chemical</td><td>8</td><td>Discharge</td><td>0</td><td>Boat Bk</td><td>0</td></tr><tr><td>Seawater</td><td>0</td><td>Downhole</td><td>0</td><td>Built</td><td>448</td></tr><tr><td>Other</td><td>0</td><td>Other</td><td>50</td><td>Lost sub</td><td>0</td></tr><tr><td>RECEIVED</td><td>448</td><td>LOST</td><td>1034</td><td>Lost srf</td><td>1034</td></tr><tr><td colspan="4">TOTAL MUD ON RIG (bbls)</td><td colspan="2">3189</td></tr></table>										Water Source				Supply Boats		MUD ACCOUNTING (BBLS)						SUMMARY		FLUID BUILT		FLUID DISPOSED		Start Vol	3320	Drill Water	440	S.C.E.	984	Boat Rcd	455	Chemical	8	Discharge	0	Boat Bk	0	Seawater	0	Downhole	0	Built	448	Other	0	Other	50	Lost sub	0	RECEIVED	448	LOST	1034	Lost srf	1034	TOTAL MUD ON RIG (bbls)				3189	
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TOTAL MUD ON RIG (bbls)				3189																																																													

PRODUCT USAGE

SOLIDS CONTROL EQUIPMENT

Product	UnitSize	Start	Received	Used	Close									
Type					Hours	OF	UF	GPM Feed						
KCl / Glycol / Premix_*RIG	0 bbl	0	455	455	0	Desander	Cone Size	0	No.		0	0	0	0
Flowzan	25 Kg Sack	70	0	37	33	Desilter	Cone Size	0	No.		0	0	0	0
Drispac SL	25 Kg Sack	110	0	20	90	Mud Cleaner					0	0	0	0
JK-261 LV	25 Kg	164	0	9	155	Centrifuge 1	MI SW FVS518				13	9.1	14.5	50
Sodium Sulphite	25 Kg	35	0	5	30	Centrifuge 2	MI SW FVS518				13	9.1	14.5	50
Soda Ash (ex ANZON)	25 Kg	6	0	2	4	Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.1
						Shale Shaker #1	40/20/84/84				14	LGS %		4.1
						Shale Shaker #2	40/20/84/84				14	Drilled Solids %		3.457
						Shale Shaker #3	40/20/84/84				14	Salt %		3.311
						Shale Shaker #4	40/20/84/84				14			

Rheochem Engineer: Carissa Thompson Christian Dimarco **Office:** Perth

Telephone: +61 8 9410 8200 **Fax:** +61 8 9410 8299



RHEOCHEM

Date: 29/05/2008

Report No 14

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	440	bbl
Chemical Volume added	8	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	448	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	455

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	903	bbl
LOSSES TO CENTRIFUGE	81	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:	50	bbl
Surface Losses Subtotal:	1034	bbl

SEEPAGE LOSSES:	0	BBL/HR FOR	0	hr		bbl
LOST CIRCULATION:						bbl
LOST BEHIND CASING/LEFT DOWNHOLE:						bbl
OTHER SUB-SURFACE LOSSES:						bbl
Sub-surface Losses Subtotal:					0	bbl
TOTAL DISPOSED:					1034	bbl
Interval losses (bbl/ft/m):					10	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	3	230	9	Brine
2	Reserve	125	342	9.35	Brine
3a	Reserve	150	243	9.4	Active KCl/Glycol/PHPA
3b	Reserve	145	243	9.4	Active KCl/Glycol/PHPA
4	Reserve	19	508	9.3	Premix KCl/Glycol/PHPA
5	Reserve	411	508	9.3	Premix KCl/Glycol/PHPA
Slug Pit	Reserve	28	79	11.8	HW slug
Trip Tank	Active	33	70	9.4	Active KCl/Glycol/PHPA
Sand Trap	Reserve	50	54	9.4	KCl/Glycol/PHPA
Settling Pits	Reserve	80	81	9.4	KCl/Glycol/PHPA
Surface Lines	Reserve	15	80	9.4	KCl/Glycol/PHPA

VOLUME SUMMARY:

	+	-
Starting Volume:	3320	
Current Tank Volume:	33	
Total Hole Volume(inc riser):	2130	
Other Volume In Hole:		
Total Riser Volume:	742	
Total Received:	448	
Total Storage:		
Total Reserve:	1026	
Total Disposed:		1034
Total Backloaded to LMP:		
Total Received from LMP:	455	
TOTAL MUD AT RIGSITE	3189	bbls



Daily Inventory

Well: Jarver-1
Report No: 14
Report Date: 29/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl		455	1,594	455	1,594			
Barite (ex ANZON)	1000 Kg	101		2		103			101
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	111				111			111
Bentonite FOB (Melbourne)	1000 Kg	27		37		64	26	26	1
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	10		30		40			10
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	110	20	110		200			90
Flowzan	25 Kg Sack	70	37	167		200			33
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	164	9	45		200			155
KCl (sacked)	25 Kg Sack	240		40		280			240
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	20				20			20
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	6	2	2		6			4
Sodium Bicarbonate	25 Kg Sack	44		4		48			44
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	35	5	5		35			30

 WATER BASED MUD Daily Drilling Report	Report #	15	Total MD	1947	to	1947	m
	Rig #	OCEAN PATRIOT	Total VD	1947	to	1947	m
	Date	30/05/2008	Daily Depth Drilled	0 m			
	Spud Date	16/05/2008	Interval Depth Drilled	0 m			
OPERATOR Santos Ltd			CONTRACTOR Diamond Offshore				
REPORT FOR Chris Roots/Nathan Peri			REPORT FOR Troy Williams/ David Broussard				
WELL NAME AND No. Jarver-1			FIELD T/33P		LOCATION Sorell Basin		STATE Tasmania
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA
BIT SIZE (") 17.5	No Bit	0 0 0 0 0 0	19.75 Riser Length 597 m		HOLE 2071	PITS 482	PUMP SIZE 6 x 12 Inches
DRILL PIPE SIZE (") 13.38	TYPE CSG	LENGTH 1.307 m	30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 2553		PUMP MODEL National
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m	20 Surface @ 1,399 m		RESERVE PITS 558		% EFFICIENCY 97
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0 0 m	Intermediate @ m		STORAGE TANKS 0		BBL / STK 0.1018
			Prod. or LNR @ m				STK / MIN 200
							BBL / MIN 20.36
							GAL / MIN 855
							TOTAL CIRC TIME 122 min
MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS			
SAMPLE FROM		Pit		Pit		Pit	
MUD TYPE		KGLY		KGLY		KGLY	
TIME SAMPLE TAKEN		10:30		15:00		22:00	
FLOWLINE TEMPERATURE °F		71					
TOTAL MEASURED DEPTH (TMD) Metres		1947		1947		1947	
WEIGHT ppg / SG		9.4 1.13		9.4 1.13		9.4 1.13	
FUNNEL VISCOSITY (sec / qt) API @ 120 °F		74		74		72	
RHEOLOGY 600 : 300 RPM 120 °F		62 46		87 65		68 49	
RHEOLOGY 200 : 100 RPM 120 °F		39 29		54 41		40 31	
RHEOLOGY 6 : 3 RPM 120 °F		12 9		15 12		12 10	
PLASTIC VISCOSITY cP @ 120 °F		16		22		19	
YIELD POINT (lb / 100FT) 2 120 °F		30		43		30	
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min		10 13		13 18		11 14	
n K (lb/100 ft)		0.47 2.57		0.47 2.57		0.47 2.57	
API FILTRATE (cm / 30 min.)		6.5		6.0		6.0	
HPHT FILTRATE (cm / 30 min.) °F							
API : HPHT (Cake / 32nd in.)		1		1		1	
pH		9.2		9.2		9.0	
ALKALINITY MUD (Pm)		0.2		0.2		0.2	
ALKALINITY FILTRATE (Pf / Mf)		0.15 1.1		0.15 1.1		0.15 1.1	
CHLORIDE (mg / L)		53,000		53,000		53,000	
TOTAL HARDNESS AS CALCIUM (mg / L)		400		400		400	
SULPHITE (mg / L)		140		140		140	
PHPA (Calc ppb)		0.60		0.60		0.60	
GLYCOL CONTENT (% V/V)		3		3		3	
K+ (mg / L)		43232		43232		43232	
KCl (% by Wt.)		8.0		8.0		8.0	
METHYLENE BLUE CAPACITY (ppb equiv/%)		6.5 0.7		6.5 0.7		6.5 0.7	
SOLIDS CONTENT (% by volume) Calc		4.27		4.27		4.27	
LIQUID CONTENT (% by volume) Calc		95.73		95.73		95.73	
SAND CONTENT (% by volume)		0.5		0.5		0.5	
PRODUCT USAGE				MUD ACCOUNTING (BBLs)			
Product	UnitSize	Start	Received	Used	Close	SUMMARY	
						FLUID BUILT	FLUID DISPOSED
						Drill Water	0 S.C.E.
						Chemical	0 Discharge
						Seawater	0 Downhole
						Other	0 Other
						RECEIVED	0 LOST
TOTAL MUD ON RIG (bbls)						3111	
SOLIDS CONTROL EQUIPMENT				SOLIDS ANALYSIS			
Type	Cone Size	No.	Hours	OF	UF	GPM Feed	
Desander	0	No.	0	0	0	0	
Desilter	0	No.	0	0	0	0	
Mud Cleaner			0	0	0	0	
Centrifuge 1	MI SW FVS518						
Centrifuge 2	MI SW FVS518						
Degasser			0				
Cuttings Dryer			0	HGS %	0.1		
Shale Shaker #1	40/20/84/84		12	LGS %	4.1		
Shale Shaker #2	40/20/84/84		12	Drilled Solids %	3.424		
Shale Shaker #3	40/20/84/84		12	Salt %	3.311		
Shale Shaker #4	40/20/84/84		12				
Rheochem Engineer: Carissa Thompson Christian Dimarco Office: Perth Telephone: +61 8 9410 8200 Fax: +61 8 9410 8299							

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the



RHEOCHEM

Date: 30/05/2008

Report No 15

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:	22	bbl
DISCHARGED:	28	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	50	bbl

SEEPAGE LOSSES:	3 BBL/HR FOR 7 hr	21	bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		21	bbl
TOTAL DISPOSED:		71	bbl
Interval losses (bbl/ft/m):		0	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	3	230	9	KCl/Glycol/PHPA
2	Reserve	125	342	9.35	BRINE
3a	Active	157	243	9.4	KCl/Glycol/PHPA active
3b	Active	150	243	9.4	KCl/Glycol/PHPA active
4	Reserve	19	508	9.3	KCl/Glycol/PHPA premix
5	Reserve	411	508	9.3	KCl/Glycol/PHPA premix
Slug Pit	Reserve	0	79	8.5	50bbls SEAWATER
Trip Tank	Active	30	70	9.4	KCl/Glycol/PHPA active
Sand Trap	Active	50	54	9.4	KCl/Glycol/PHPA active
Settling Pits	Active	80	81	9.4	KCl/Glycol/PHPA active
Surface Lines	Active	15	80	9.4	KCl/Glycol/PHPA active

VOLUME SUMMARY:

	+	-
Starting Volume:	3182	
Current Tank Volume:	482	
Total Hole Volume(inc riser):	2071	
Other Volume In Hole:		
Total Riser Volume:	742	
Total Received:		
Total Storage:		
Total Reserve:	558	
Total Disposed:		71
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	3111	bbls



Daily Inventory

Well: Jarver-1
Report No: 15
Report Date: 30/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			1,594		1,594			
Barite (ex ANZON)	1000 Kg	101		2		103			101
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	111				111			111
Bentonite FOB (Melbourne)	1000 Kg	1		37		64		26	1
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	10		30		40			10
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	90		110		200			90
Flowzan	25 Kg Sack	33		167		200			33
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32				32			32
JK-261 LV	25 Kg	155		45		200			155
KCl (sacked)	25 Kg Sack	240		40		280			240
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	20				20			20
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	4		2		6			4
Sodium Bicarbonate	25 Kg Sack	44		4		48			44
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	30		5		35			30



Report #	16	Total MD	1947	to	1947	m
Rig #	OCEAN PATRIOT	Total VD	1947	to	1947	m
Date	31/05/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			540	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 12.25	Hughes HC506 ZX	16 16	16 0	16 0	16 0	16 0	19.75 Riser Length	597 m	HOLE 1357	PITS 361	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS 2000 psi	
DRILL PIPE SIZE (") 5	TYPE	LENGTH 200 m					30 Conductor @	642 m	TOTAL CIRCULATING VOL. 1718		PUMP MODEL National	% EFFICIENCY 97	SURFACE TO BIT 6 min	
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m					20 Surface @	1,399 m	RESERVE PITS 1045		BBL / STK 0.1018	STK / MIN 200	BOTTOMS UP 41 min	
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0	0	0	0	0	3.325 Intermediate @	1,942 m	STORAGE TANKS 0		BBL / MIN 20.36	GAL / MIN 855	TOTAL CIRC TIME 65 min	
							Prod. or LNR @	m						

SAMPLE FROM		Pit		Pit		Pit		MW 8.9-9.5	API FL <8	KCI 8.0
MUD TYPE		KGLY		KGLY		KGLY		Hardne <400	6 RPM 13-16	LGS <5
TIME SAMPLE TAKEN		3:00		10:30		23:00		MUD COMMENTS		
FLOWLINE TEMPERATURE °F				70				While circulating casing contents added Biocide to treat active system.		
TOTAL MEASURED DEPTH (TMD) Metres		1947		1947		1947		Whilst pressure testing & W.O.C. discharged sandtraps to rid settled solids (130bbbs dumped). Commenced centrifuging surface mud; retort (uncorrected solids) on mud prior to centrifuging = 12% solids. Barite will be added to re-increase MW back up to 9.4ppg prior to drilling. Received mud chemicals from Far Grip as per inventory. *** Test #2 shows rheology properties at ambient temp (70oF).		
WEIGHT ppg / SG		9.4	1.13	9.4	1.13	9.3	1.12			
FUNNEL VISCOSITY (sec / qt) API @ 120 °F		72		74		74				
RHEOLOGY 600 : 300 RPM 120 °F		68	49	89	67	70	53			
RHEOLOGY 200 : 100 RPM 120 °F		40	31	56	43	44	36			
RHEOLOGY 6 : 3 RPM 120 °F		12	10	16	13	13	11			
PLASTIC VISCOSITY cP @ 120 °F		19		22		17				

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type					Hours	OF	UF	GPM Feed
Icdide-20	20 Ltr Drum	32	0	6	26	Desander	Cone Size	0	No.		0	0	0	0
Flowzan	25 Kg Sack	33	40	0	73	Desilter	Cone Size	0	No.		0	0	0	0
Fracseal	25 lb Sack	0	70	0	70	Mud Cleaner					0	0	0	0
JK-261 LV	25 Kg	155	40	0	195	Centrifuge 1	MI SW FVS518				7	9.05	13.8	60
KCl (sacked)	25 Kg Sack	240	280	0	520	Centrifuge 2	MI SW FVS518				7	9.05	13.5	60
Sand Seal (fine)	25 Kg Sack	20	20	0	40	Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.1
						Shale Shaker #1	40/20/84/84				12	LGS %		3.4
						Shale Shaker #2	40/20/84/84				12	Drilled Solids %		2.700
						Shale Shaker #3	40/20/84/84				12	Salt %		3.311
						Shale Shaker #4	40/20/84/84				12			

Any opinion and/or recommendation, expressed orally or written herein, has be prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the use of the same.



RHEOCHEM

Date: 31/05/2008

Report No 16

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added	1	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	1	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	2	bbl
LOSSES TO CENTRIFUGE	15	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	130	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	147	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:		220		bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:		220		bbl
TOTAL DISPOSED:		367		bbl
Interval losses (bbl/ft/m):		12		

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	125	230	9.35	BRINE
2	Reserve	134	342	9.3	KCl/Glycol/PHPA
3a	Active	160	243	9.3	KCl/Glycol/PHPA
3b	Active	166	243	9.3	KCl/Glycol/PHPA
4	Reserve	353	508	9.3	KCl/Glycol/PHPA
5	Reserve	411	508	9.3	KCl/Glycol/PHPA Premix
Slug Pit	Reserve	0	79	0	
Trip Tank	Active	29	70	9.4	KCl/Glycol/PHPA
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	10	80	9.3	KCl/Glycol/PHPA

VOLUME SUMMARY:

	+	-
Starting Volume:	3111	
Current Tank Volume:	355	
Total Hole Volume(inc riser):	1357	
Other Volume In Hole:	45	
Total Riser Volume:	742	
Total Received:	1	
Total Storage:		
Total Reserve:	1033	
Total Disposed:		367
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	2745	bbls



Daily Inventory

Well: Jarver-1
 Report No: 16
 Report Date: 31/05/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			1,594		1,594			
Barite (ex ANZON)	1000 Kg	101		2		103			101
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	111				111			111
Bentonite FOB (Melbourne)	1000 Kg	1		37		64		26	1
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	10		30		40			10
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	90		110		200			90
Flowzan	25 Kg Sack	33		167	40	240			73
Fracseal	25 lb Sack				70	70			70
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	32	6	6		32			26
JK-261 LV	25 Kg	155		45	40	240			195
KCl (sacked)	25 Kg Sack	240		40	280	560			520
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	20			20	40			40
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	4		2		6			4
Sodium Bicarbonate	25 Kg Sack	44		4		48			44
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	30		5		35			30

 WATER BASED MUD Daily Drilling Report	Report #	17	Total MD	1947	to	1947	m					
	Rig #	OCEAN PATRIOT	Total VD	1947	to	1947	m					
	Date	1/06/2008	Daily Depth Drilled	0 m								
	Spud Date	16/05/2008	Interval Depth Drilled	0 m								
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore				
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ David Broussard				
WELL NAME AND No.			Jarver-1		FIELD		T/33P					
					LOCATION		Sorell Basin					
					STATE		Tasmania					
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA					
BIT SIZE (")	Hughes	16 16 16 16 16	19.75 Riser Length 597 m		HOLE	PITS	PUMP SIZE	CIRCULATION PRESS				
12.25	HC506 ZX	16 0 0 0 0			1315	543	6 x 12 Inches	1500 psi				
DRILL PIPE SIZE (")	TYPE	LENGTH	30 Conductor @ 642 m		TOTAL CIRCULATING VOL.		PUMP MODEL	% EFFICIENCY				
5	dp	198 m			1858		National	97				
DRILL PIPE SIZE (")	TYPE	LENGTH	20 Surface @ 1,399 m		RESERVE PITS		BBL / STK	STK / MIN				
6.53	HW	140 m			1437		0.1018	150				
DRILL COLLAR SIZE (")		LENGTH	3.325 Intermediate @ 1,942 m		STORAGE TANKS		BBL / MIN	GAL / MIN				
8	8.25	105 45 m			0		15.27	641				
			Prod. or LNR @ m					TOTAL CIRC TIME				
								95 min				
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS							
SAMPLE FROM			Pit	Pit	Pit	MW	9.4-10.4	API FL	<5			
MUD TYPE			KGLY	KGLY	KGLY	Hardne	<400	6 RPM	8-10			
TIME SAMPLE TAKEN			2:00	14:00	14:30	MUD COMMENTS						
FLOWLINE TEMPERATURE °F			70			Finished mixing 220bbls premix (Pit 1) w/ 8% KCl, 3% Glycol, 1ppb PHPA, 1ppb Flowzan & 2ppb Pac. This brew will be weighted with Barite to increase active MW once drilling. Cont'd to centrifuge surface active mud to remove LGS. Retort on centrifuged mud = 7.5%. Offlined Centrifuge. Re-weighted surface MW to 9.4ppg with Barite prior to RIH. Received Mud chemicals & 489bbls of Brine from Pacific Wrangler. Received Barite at time of report, waiting for bulk report (tomorrow). *** Test #1 - centrifuge centrate. *** Test #2 - rheology tested at ambient temp, 70oF. *** Test #3 - rheology tested at API standards, 120oF.						
TOTAL MEASURED DEPTH (TMD) Metres			1947	1947	1947							
WEIGHT ppg / SG			9.0	1.08	9.4							
FUNNEL VISCOSITY (sec / qt) API @ 120 °F			65	68	68							
RHEOLOGY 600 : 300 RPM 120 °F			52	39	76							
RHEOLOGY 200 : 100 RPM 120 °F			33	25	44							
RHEOLOGY 6 : 3 RPM 120 °F			9	7	14							
PLASTIC VISCOSITY cP @ 120 °F			13	18	14							
YIELD POINT (lb / 100FT) 2 120 °F			26	40	30							
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min			8	10	12							
n K (lb/100 ft)			0.40	3.67	0.40							
API FILTRATE (cm / 30 min.)			5.2	5.5	5.5	Slip & cut drill line. Cont'd to M/U 12 1/4" BHA. RIH BHA and performed shallow surface test, which indicated realtime communication errors w/ several components of the MWD tool. POOH, trouble-shoot, RIH & re-test tools okay. Cont'd to RIH; 487m at time of report.						
HPHT FILTRATE (cm / 30 min.) °F												
API : HPHT (Cake / 32nd in.)			1	1	1							
pH			9.0	9.0	9.0							
ALKALINITY MUD (Pm)			0.2	0.2	0.2							
ALKALINITY FILTRATE (Pf / Mf)			0.12	1.0	0.10							
CHLORIDE (mg / L)			51,000	51,000	51,000							
TOTAL HARDNESS AS CALCIUM (mg / L)			400	400	400							
SULPHITE (mg / L)			140	140	140							
PHPA (Calc ppb)			0.60	0.60	0.60							
GLYCOL CONTENT (% V/V)			3	3	3	Water Source						
K+ (mg / L)			43232	43232	43232	Supply Boats						
KCl (% by Wt.)			8.0	8.0	8.0	MUD ACCOUNTING (BBLs)						
METHYLENE BLUE CAPACITY (ppb equiv/%)			6.0	0.7	6.0	SUMMARY						
SOLIDS CONTENT (% by volume) Calc			1.80	3.98	3.98	FLUID BUILT						
LIQUID CONTENT (% by volume) Calc			98.20	96.02	96.02	FLUID DISPOSED						
SAND CONTENT (% by volume)			0.1	0.1	0.1	Start Vol						
						2763						
						Drill Water						
						50						
						S.C.E.						
						12						
						Boat Rcd						
						489						
						Chemical						
						5						
						Discharge						
						0						
						Boat Bk						
						0						
						Seawater						
						0						
						Downhole						
						0						
						Built						
						55						
						Other						
						0						
						Lost sub						
						0						
						RECEIVED						
						55						
						LOST						
						12						
						Lost srf						
						12						
						TOTAL MUD ON RIG (bbls)						
						3295						
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type	Cone Size	No.	Hours	OF	UF	GPM Feed
KCl / Glycol / Premix_*RIG	0 bbl	0	489	489	0	Desander	0	No.	0	0	0	0
Drispac SL	25 Kg Sack	90	40	9	121	Desilter	0	No.	0	0	0	0
Flowzan	25 Kg Sack	73	40	4	109	Mud Cleaner			0	0	0	0
Barite (ex ANZON)	1000 Kg	101	0	2	99	Centrifuge 1	MI SW FVS518		3	9	13.2	55
JK-261 LV	25 Kg	195	0	2	193	Centrifuge 2	MI SW FVS518		2	9	13.9	55
Citric Acid	25 Kg Sack	10	40	0	50	Degasser			0	SOLIDS ANALYSIS		
Fracseal	25 lb Sack	70	70	0	140	Cuttings Dryer			0	HGS %		1.0
KCl (sacked)	25 Kg Sack	520	240	0	760	Shale Shaker #1	40/20/84/84			LGS %		3.0
MEG	220 Kg	0	8	0	8	Shale Shaker #2	40/20/84/84			Drilled Solids %		2.299
Sand Seal (fine)	25 Kg Sack	40	20	0	60	Shale Shaker #3	40/20/84/84			Salt %		3.156
						Shale Shaker #4	40/20/84/84					
Rheochem Engineer: Carissa Thompson Christian Dimarco						Office: Perth						
						Telephone: +61 8 9410 8200						
						Fax: +61 8 9410 8299						

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RHEOCHEM

Date: 1/06/2008

Report No 17

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	50	bbl
Chemical Volume added	5	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	55	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	489

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE	12	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	12	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			12	bbl
Interval losses (bbl/ft/m):			0	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	218	230	9.2	KCl/Glycol/PHPA premix
2	Reserve	320	342	9.4	KCl/Glycol/PHPA mud
3a	Active	189	243	9.4	KCl/Glycol/PHPA active
3b	Active	180	243	9.4	KCl/Glycol/PHPA active
4	Reserve	501	508	9.4	New BRINE + d/vol
5	Reserve	398	508	8.9	KCl/Glycol/PHPA premix
Slug Pit	Reserve	0	79	8.5	Seawater
Trip Tank	Active	34	70	9.4	KCl/Glycol/PHPA active
Sand Trap	Active	50	54	9.4	KCl/Glycol/PHPA active
Settling Pits	Active	80	81	9.4	KCl/Glycol/PHPA active
Surface Lines	Active	10	80	9.4	KCl/Glycol/PHPA active

VOLUME SUMMARY:

	+	-
Starting Volume:	2763	
Current Tank Volume:	543	
Total Hole Volume(inc riser):	1315	
Other Volume In Hole:	45	
Total Riser Volume:	742	
Total Received:	55	
Total Storage:		
Total Reserve:	1437	
Total Disposed:		12
Total Backloaded to LMP:		
Total Received from LMP:	489	
TOTAL MUD AT RIGSITE	3295	bbls



Daily Inventory

Well: Jarver-1
Report No: 17
Report Date: 1/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl		489	2,083	489	2,083			
Barite (ex ANZON)	1000 Kg	101	2	4		103			99
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	111				111			111
Bentonite FOB (Melbourne)	1000 Kg	1		37		64		26	1
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	10		30	40	80			50
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	90	9	119	40	240			121
Flowzan	25 Kg Sack	73	4	171	40	280			109
Fracseal	25 lb Sack	70			70	140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	26		6		32			26
JK-261 LV	25 Kg	195	2	47		240			193
KCl (sacked)	25 Kg Sack	520		40	240	800			760
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg				8	8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	40			20	60			60
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	4		2		6			4
Sodium Bicarbonate	25 Kg Sack	44		4		48			44
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	30		5		35			30

 WATER BASED MUD Daily Drilling Report	Report #	18	Total MD	1947	to	2310	m							
	Rig #	OCEAN PATRIOT	Total VD	1947	to	2310	m							
	Date	2/06/2008	Daily Depth Drilled			363	m							
	Spud Date	16/05/2008	Interval Depth Drilled			363	m							
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore						
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ David Broussard						
WELL NAME AND No.			Jarver-1		FIELD		T/33P							
					LOCATION		Sorell Basin							
					STATE		Tasmania							
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA							
BIT SIZE (")	Hughes	16 16 16 16 16	19.75 Riser Length 597 m		HOLE	PITS	PUMP SIZE	CIRCULATION PRESS						
12.25	HC506 ZX	16 0 0 0 0			1494	479	6 x 12 Inches	2554 psi						
DRILL PIPE SIZE (")	TYPE	LENGTH	30 Conductor @ 642 m		TOTAL CIRCULATING VOL.		PUMP MODEL	% EFFICIENCY						
5	dp	2.021 m			1973		National	97						
DRILL PIPE SIZE (")	TYPE	LENGTH	20 Surface @ 1,399 m		RESERVE PITS		BBL / STK	STK / MIN						
6.53	HW	140 m			1318		0.1018	199						
DRILL COLLAR SIZE (")		LENGTH	3.325 Intermediate @ 1,942 m		STORAGE TANKS		BBL / MIN	GAL / MIN						
8	8.25	105 45 m			0		20.26	851						
			Prod. or LNR @ m					TOTAL CIRC TIME						
								75 min						
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS									
SAMPLE FROM			Pit		FL		FL							
MUD TYPE			KGLY		KGLY		KGLY							
TIME SAMPLE TAKEN			9:00		22:20		23:00							
FLOWLINE TEMPERATURE °F					80		80							
TOTAL MEASURED DEPTH (TMD) Metres			1407		2250		2280							
WEIGHT ppg / SG			9.4 1.13		10.4 1.25		10.4 1.25							
FUNNEL VISCOSITY (sec / qt) API @ 120 °F			66		63		63							
RHEOLOGY 600 : 300 RPM 120 °F			56 43		79 60		70 51							
RHEOLOGY 200 : 100 RPM 120 °F			36 26		52 38		42 31							
RHEOLOGY 6 : 3 RPM 120 °F			10 8		14 11		11 8							
PLASTIC VISCOSITY cP @ 120 °F			15		19		19							
YIELD POINT (lb / 100FT) 2 120 °F			27		41		32							
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min			9 12 15		12 14 16		10 15 17							
n K (lb/100 ft)			0.46 2.96		0.46 2.96		0.46 2.96							
API FILTRATE (cm / 30 min.)			5.0		4.8		4.8							
HPHT FILTRATE (cm / 30 min.) °F														
API : HPHT (Cake / 32nd in.)			1		1		1							
pH			9.2		9.2		9.2							
ALKALINITY MUD (Pm)			0.3		0.2		0.2							
ALKALINITY FILTRATE (Pf / Mf)			0.20 1.3		0.10 1.2		0.10 1.2							
CHLORIDE (mg / L)			50,000		53,000		53,000							
TOTAL HARDNESS AS CALCIUM (mg / L)			440		400		400							
SULPHITE (mg / L)			100		180		180							
PHPA (Calc ppb)			0.60		0.60		0.60							
GLYCOL CONTENT (% V/V)			3		3		3							
K+ (mg / L)			42691.6005		44312.799		44312.799							
KCl (% by Wt.)			7.9		8.2		8.2							
METHYLENE BLUE CAPACITY (ppb equiv/%)			5.0 0.5		5.0 0.5		5.0 0.5							
SOLIDS CONTENT (% by volume) Calc			4.33		7.97		7.97							
LIQUID CONTENT (% by volume) Calc			95.67		92.03		92.03							
SAND CONTENT (% by volume)			0.25		0.75		0.75							
PRODUCT USAGE					SOLIDS CONTROL EQUIPMENT									
Product	UnitSize	Start	Received	Used	Close	Type				Hours	OF	UF	GPM Feed	
KCl (sacked)	25 Kg Sack	760	0	160	600	Desander	Cone Size	0	No.		0	0	0	
Barite (ex ANZON)	1000 Kg	99	0	64	35	Desilter	Cone Size	0	No.		0	0	0	
Drispac SL	25 Kg Sack	121	0	9	112	Mud Cleaner				0	0	0	0	
Citric Acid	25 Kg Sack	50	0	8	42	Centrifuge 1	MI SW FVS518			4	10	16.4	55	
Sodium Bicarbonate	25 Kg Sack	44	0	8	36	Centrifuge 2	MI SW FVS518							
Sodium Sulphite	25 Kg	30	0	8	22	Degasser				0	SOLIDS ANALYSIS			
JK-261 LV	25 Kg	193	0	5	188	Cuttings Dryer				0	HGS %		4.1	
Flowzan	25 Kg Sack	109	0	4	105	Shale Shaker #1	40/20/165/84			24	LGS %		3.9	
Barite FOB (Portland)	1000 Kg	111	97	0	208	Shale Shaker #2	40/20/165/165			24	Drilled Solids %		3.336	
						Shale Shaker #3	40/20/165/84			24	Salt %		3.311	
						Shale Shaker #4	40/20/165/165			24				
Rheochem Engineer: Carissa Thompson Christian Dimarco					Office: Perth					Telephone: +61 8 9410 8200 Fax: +61 8 9410 8299				

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RHEOCHEM

Date: 2/06/2008

Report No 18

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	105	bbl
Chemical Volume added	113	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	218	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	210	bbl
LOSSES TO CENTRIFUGE	12	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	222	bbl

SEEPAGE LOSSES: 0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:		bbl
LOST BEHIND CASING/LEFT DOWNHOLE:		bbl
OTHER SUB-SURFACE LOSSES:		bbl
Sub-surface Losses Subtotal:	0	bbl
TOTAL DISPOSED:	222	bbl
Interval losses (bbl/ft/m):	4	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	210	230	12	HW Premix
2	Reserve	329	342	9.4	LW KCL/Glycol/PHPA Mud
3a	Active	139	243	10.4	KCL/Glycol/PHPA Mud
3b	Active	140	243	10.4	KCL/Glycol/PHPA Mud
4	Reserve	385	508	9.3	KCL/Glycol Brine
5	Reserve	366	508	10.5	HW Premix
Slug Pit	Reserve	0	79	8.5	Seawater
Trip Tank	Reserve	28	70	9.4	KCL/Glycol/PHPA Mud
Sand Trap	Active	50	54	10.4	KCL/Glycol/PHPA Mud
Settling Pits	Active	80	81	10.4	KCL/Glycol/PHPA Mud
Surface Lines	Active	70	80	10.4	KCL/Glycol/PHPA Mud

VOLUME SUMMARY:

	+	-
Starting Volume:	3295	
Current Tank Volume:	479	
Total Hole Volume(inc riser):	1494	
Other Volume In Hole:		
Total Riser Volume:	742	
Total Received:	218	
Total Storage:		
Total Reserve:	1318	
Total Disposed:		222
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	3291	bbls



Daily Inventory

Well: Jarver-1
Report No: 18
Report Date: 2/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,083		2,083			
Barite (ex ANZON)	1000 Kg	99	64	68		103			35
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	111			97	208			208
Bentonite FOB (Melbourne)	1000 Kg	1		37		64		26	1
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	50	8	38		80			42
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	121	9	128		240			112
Flowzan	25 Kg Sack	109	4	175		280			105
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	26		6		32			26
JK-261 LV	25 Kg	193	5	52		240			188
KCl (sacked)	25 Kg Sack	760	160	200		800			600
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	60				60			60
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	4		2		6			4
Sodium Bicarbonate	25 Kg Sack	44	8	12		48			36
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	30	8	13		35			22

 WATER BASED MUD Daily Drilling Report	Report #	19	Total MD	2310	to	3010	m					
	Rig #	OCEAN PATRIOT	Total VD	2310	to	3010	m					
	Date	3/06/2008	Daily Depth Drilled	700 m								
	Spud Date	16/05/2008	Interval Depth Drilled	1063 m								
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore				
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ David Broussard				
WELL NAME AND No.			Jarver-1		FIELD		T/33P					
					LOCATION		Sorell Basin					
					STATE		Tasmania					
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA					
BIT SIZE (")	Hughes	16 16 16 16 16	19.75 Riser Length 597 m		HOLE 1814 PITS 550		PUMP SIZE 6 x 12 Inches					
12.25	HC506 ZX	16 0 0 0 0 0					CIRCULATION PRESS 4005 psi					
DRILL PIPE SIZE (")	TYPE	LENGTH	30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 2364		PUMP MODEL National					
5	dp	2,721 m					% EFFICIENCY 97					
DRILL PIPE SIZE (")	TYPE	LENGTH	20 Surface @ 1,399 m		RESERVE PITS 978		SURFACE TO BIT 9 min					
6.53	HW	140 m					BBL / STK 0.1018					
DRILL COLLAR SIZE (")		LENGTH	3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		STK / MIN 190					
8	8.25	105 45 m					BBL / MIN 19.34					
			Prod. or LNR @ m				GAL / MIN 812					
							TOTAL CIRC TIME 99 min					
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS							
SAMPLE FROM			Pit		FL		FL					
MUD TYPE			KGLY		KGLY		KGLY					
TIME SAMPLE TAKEN			9:30		23:30		23:00					
FLOWLINE TEMPERATURE °F			80		82		82					
TOTAL MEASURED DEPTH (TMD) Metres			2579		2970		3004					
WEIGHT ppg / SG			10.4 1.25		10.4 1.25		10.4 1.25					
FUNNEL VISCOSITY (sec / qt) API @ 120 °F			62		60		60					
RHEOLOGY 600 : 300 RPM 120 °F			69 50		75 56		56 42					
RHEOLOGY 200 : 100 RPM 120 °F			41 30		47 35		36 27					
RHEOLOGY 6 : 3 RPM 120 °F			10 8		13 11		11 9					
PLASTIC VISCOSITY cP @ 120 °F			19		19		14					
YIELD POINT (lb / 100FT) ^ 2 120 °F			31		37		28					
GEL STRENGTH (lb / 100FT) 10sec/10min/30min			9 12 15		12 15 17		10 14 17					
n K (lb/100 ft)			0.41 3.16		0.41 3.16		0.41 3.16					
API FILTRATE (cm / 30 min.)			4.8		5.0		5.0					
HPHT FILTRATE (cm / 30 min.) °F												
API : HPHT (Cake / 32nd in.)			1		1		1					
pH			9.0		9.0		9.0					
ALKALINITY MUD (Pm)			0.2		0.2		0.2					
ALKALINITY FILTRATE (Pf / Mf)			0.10 0.9		0.10 1.0		0.10 1.0					
CHLORIDE (mg / L)			55,000		55,000		55,000					
TOTAL HARDNESS AS CALCIUM (mg / L)			400		400		400					
SULPHITE (mg / L)			120		180		180					
PHPA (Calc ppb)			0.60		0.10		0.00					
GLYCOL CONTENT (% V/V)			3		3		3					
K+ (mg / L)			44312.799		44312.799		44312.799					
KCl (% by Wt.)			8.2		8.2		8.2					
METHYLENE BLUE CAPACITY (ppb equiv/%)			5.0 0.5		3.5 0.4		3.5 0.4					
SOLIDS CONTENT (% by volume) Calc			7.97		7.90		7.90					
LIQUID CONTENT (% by volume) Calc			92.03		92.10		92.10					
SAND CONTENT (% by volume)			0.9		1.5		1.5					
PRODUCT USAGE					SOLIDS CONTROL EQUIPMENT							
Product	UnitSize	Start	Received	Used	Close	Type			Hours	OF	UF	GPM Feed
KCl / Glycol / Premix_*RIG	0 bbl	0	335	335	0	Desander	Cone Size 3	No. 8	2	10.2	10.6	0
KCl (sacked)	25 Kg Sack	600	0	120	480	Desilter	Cone Size 0	No.	0	0	0	0
Barite (ex ANZON)	1000 Kg	35	0	35	0	Mud Cleaner			0	0	0	0
Drispac SL	25 Kg Sack	112	0	29	83	Centrifuge 1	MI SW FVS518		13	10.1	16	40
Flowzan	25 Kg Sack	105	0	18	87	Centrifuge 2	MI SW FVS518		1	10.1	16	40
Sodium Sulphite	25 Kg	22	0	10	12	Degasser			0	SOLIDS ANALYSIS		
Barite FOB (Portland)	1000 Kg	208	0	6	202	Cuttings Dryer			0	HGS %		4.1
JK-261 LV	25 Kg	188	0	4	184	Shale Shaker #1	40/20/200/165		20	LGS %		3.7
						Shale Shaker #2	40/20/200/165		20	Drilled Solids %		3.362
						Shale Shaker #3	40/20/165/165		20	Salt %		3.435
						Shale Shaker #4	40/20/165/165		20			
Rheochem Engineer: Carissa Thompson Christian Dimarco						Office: Perth		Telephone: +61 8 9410 8200		Fax: +61 8 9410 8299		

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RHEOCHEM

Date: 3/06/2008

Report No 19

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water	280	bbl
Chemical Volume added	77	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	357	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	335

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	587	bbl
LOSSES TO CENTRIFUGE	20	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:	34	bbl
Surface Losses Subtotal:	641	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:	0		bbl
TOTAL DISPOSED:	641		bbl
Interval losses (bbl/ft/m):	3		

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	207	230	10.4	KCI/PHPA/Glycol premix
2	Reserve	320	342	10.4	KCI/PHPA/Glycol mud
3a	Active	175	243	10.4	KCI/PHPA/Glycol active
3b	Active	175	243	10.4	KCI/PHPA/Glycol active
4	Reserve	340	508	9.2	Brine
5	Reserve	51	508	10.5	KCI/PHPA/Glycol premix
Slug Pit	Reserve	41	79	9	KCI/PHPA/Glycol mud
Trip Tank	Reserve	19	70	9.4	KCI/PHPA/Glycol mud
Sand Trap	Active	50	54	10.4	KCI/PHPA/Glycol active
Settling Pits	Active	80	81	10.4	KCI/PHPA/Glycol active
Surface Lines	Active	70	80	10.4	KCI/PHPA/Glycol active

VOLUME SUMMARY:

	+	-
Starting Volume:	3291	
Current Tank Volume:	550	
Total Hole Volume(inc riser):	1814	
Other Volume In Hole:		
Total Riser Volume:	742	
Total Received:	357	
Total Storage:		
Total Reserve:	978	
Total Disposed:		641
Total Backloaded to LMP:		
Total Received from LMP:	335	
TOTAL MUD AT RIGSITE	3342	bbls



Daily Inventory

Well: Jarver-1
Report No: 19
Report Date: 3/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl		335	2,418	335	2,418			
Barite (ex ANZON)	1000 Kg	35	35	103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	208	6	6		208			202
Bentonite FOB (Melbourne)	1000 Kg	1		37		64		26	1
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	42		38		80			42
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	112	29	157		240			83
Flowzan	25 Kg Sack	105	18	193		280			87
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	26		6		32			26
JK-261 LV	25 Kg	188	4	56		240			184
KCl (sacked)	25 Kg Sack	600	120	320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	60				60			60
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	4		2		6			4
Sodium Bicarbonate	25 Kg Sack	36		12		48			36
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	22	10	23		35			12



Report #	20	Total MD	3010	to	3062	m
Rig #	OCEAN PATRIOT	Total VD	3010	to	3062	m
Date	4/06/2008	Daily Depth Drilled			52	m
Spud Date	16/05/2008	Interval Depth Drilled			1115	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 12.25	No Bit	0	0	0	0	0	19.75 Riser Length 597 m	HOLE 1939	PITS 365	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS 3990 psi		
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 0 m						30 Conductor @ 642 m	TOTAL CIRCULATING VOL. 2304		PUMP MODEL National	% EFFICIENCY 97	SURFACE TO BIT 9 min	
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m						20 Surface @ 1,399 m	RESERVE PITS 854		BBL / STK 0.1018	STK / MIN 195	BOTTOMS UP 66 min	
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0	0	0	0	3.325 Intermediate @ 1,942 m		Prod. or LNR @ m	STORAGE TANKS 0		BBL / MIN 19.85	GAL / MIN 834	TOTAL CIRC TIME 93 min	

SAMPLE FROM	Pit	FL	Pit	MW 10.4	API FL <5	KCI 8.0
MUD TYPE	KGLY	KGLY	KGLY	Hardne <400	6 RPM 8-10	LGS <5

WEIGHT		ppg / SG		10.4	1.25	10.4	1.25	10.4	1.25
FUNNEL VISCOSITY (sec / qt) API @		120 °F		60		60		58	
RHEOLOGY 600 : 300 RPM		120 °F		66	48	64	47	60	44
RHEOLOGY 200 : 100 RPM		120 °F		41	30	40	32	36	27
RHEOLOGY 6 : 3 RPM		120 °F		10	8	11	9	10	9
PLASTIC VISCOSITY cP @		120 °F		18		17		16	

GEL STRENGTH (lb / 100FT)		10sec/10min/30min		9	12	16	10	14	16	9	13	15	CONTINUED COMMENTS
n	K (lb/100 ft)	0.45	2.71	0.45	2.71	0.45	2.71	0.45	2.71	Continued to drill ahead. Jarver-1 Total Depth was called at 2366.9m and 15 MINUTE A.P.R.A. is completed.			

HPHT FILTRATE (cm / 30 min.)	°F				ease. L/D 12.25" BHA.

pH	9.2	9.2	9.2	midnight.

ALKALINITY FILTRATE (Pf / Mf)	0.10	0.9	0.10	0.9	0.10	1.0	Static d/hole seepage when logging = 10bbbls.

TOTAL HARDNESS AS CALCIUM (mg / L)	440	400	400	Water Source	Supply Boats
Calcium (mg / L)	120	120	120		

PHPA (Calc ppb)	0.00	0.00	0.00				
GLYCOL CONTENT (%/W/W)	0	0	0	FLUID BUILT	FLUID DISPOSED	Start Vol	3342

K ⁺ (mg/L)	45934	45393.5979	45393.5979	Chemical	41	Discharge	0	Boat Bk	0
KOH (M/L, M/L)	3.5	3.4	3.4						

METHYLENE BLUE CAPACITY (ppb equiv/%)	3.5	0.4	3.5	0.4	3.5	0.4	Other	0	Other	48	Lost sub	10
SOLIDS CONTENT (% by volume) Calc	7.97		7.76		7.76							

LIQUID CONTENT (% by volume) Calc	92.03	92.24	92.24		
SAND CONTENT (% by volume)	0.5	0.35	0.5	TOTAL MUD ON RIG (bbls)	3158

PRODUCT USAGE	SOLIDS CONTROL EQUIPMENT

Barite FOB (Portland)	1000 Kg	202	0	27	175	Desander	Cone Size	0	No.		0	0	0	0

Sodium Sulphite	25 Kg	12	0	4	8	Mud Cleaner		0	0	0	0

[illegible]

						Cuttings Dryer		0	HGS %	4.3
						Plant - Plant #1	10/00/000/105	5	100 %	1.0

						Shale Shaker #2	40/20/200/165	5	Drilled Solids %	3.085
						Shale Shaker #3	40/20/165/165	5	Drilled Solids %	3.314

[illegible][illegible]

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RHEOCHEM

Date: 4/06/2008

Report No 20

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added	41	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	41	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	144	bbl
LOSSES TO CENTRIFUGE	23	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:	48	bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	215	bbl

SEEPAGE LOSSES: 2 BBL/HR FOR 5 hr	10	bbl
LOST CIRCULATION:		bbl
LOST BEHIND CASING/LEFT DOWNHOLE:		bbl
OTHER SUB-SURFACE LOSSES:		bbl
Sub-surface Losses Subtotal:	10	bbl
TOTAL DISPOSED:	225	bbl
Interval losses (bbl/ft/m):	4	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	207	230	10.7	KCl/Glycol/PHPA premix
2	Reserve	238	342	10.4	KCl/Glycol/PHPA mud
3a	Active	110	243	10.4	KCl/Glycol/PHPA active
3b	Active	105	243	10.4	KCl/Glycol/PHPA active
4	Reserve	340	508	9.2	Brine
5	Reserve	12	508	10.5	KCl/Glycol/PHPA premix (dead vol)
Slug Pit	Reserve	30	79	12.6	HW Slug
Trip Tank	Reserve	27	70	9.4	KCl/Glycol/PHPA active
Sand Trap	Active	50	54	10.4	KCl/Glycol/PHPA active
Settling Pits	Active	80	81	10.4	KCl/Glycol/PHPA active
Surface Lines	Active	20	80	10.4	KCl/Glycol/PHPA active

VOLUME SUMMARY:

	+	-
Starting Volume:	3342	
Current Tank Volume:	365	
Total Hole Volume(inc riser):	1939	
Other Volume In Hole:		
Total Riser Volume:	742	
Total Received:	41	
Total Storage:		
Total Reserve:	854	
Total Disposed:		225
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	3158	bbls



Daily Inventory

Well: Jarver-1
Report No: 20
Report Date: 4/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	202	27	33		208			175
Bentonite FOB (Melbourne)	1000 Kg	1		37		64		26	1
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	42		38		80			42
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	83		157		240			83
Flowzan	25 Kg Sack	87		193		280			87
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	26		6		32			26
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	60				60			60
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg	4	4	6		6			
Sodium Bicarbonate	25 Kg Sack	36		12		48			36
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	12	4	27		35			8

 WATER BASED MUD Daily Drilling Report	Report #	21	Total MD	3062	to	3062	m						
	Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m						
	Date	5/06/2008	Daily Depth Drilled	0 m									
	Spud Date	16/05/2008	Interval Depth Drilled	1115 m									
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore					
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ Mike Praznik					
WELL NAME AND No.			Jarver-1		FIELD		T/33P						
					LOCATION		Sorell Basin						
					STATE		Tasmania						
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA						
BIT SIZE (")	No Bit	0 0 0 0 0 0	19.75 Riser Length 597 m		HOLE 1939	PITS 350	PUMP SIZE 6 x 12 Inches	CIRCULATION PRESS psi					
DRILL PIPE SIZE (")	5	0 m	30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 2289		PUMP MODEL National	% EFFICIENCY 97					
DRILL PIPE SIZE (")	6.53	0 m	20 Surface @ 1,399 m		RESERVE PITS 739		BBL / STK	STK / MIN					
DRILL COLLAR SIZE (")	8	0 m	3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		BBL / MIN	GAL / MIN					
	8.25	0 m	Prod. or LNR @ m					TOTAL CIRC TIME min					
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS								
SAMPLE FROM			Pit	Pit	Pit	MW	10.4	API FL <5					
MUD TYPE			KGLY	KGLY	KGLY	Hardne	<400	6 RPM					
TIME SAMPLE TAKEN			6:30	14:30	22:15	MUD COMMENTS							
FLOWLINE TEMPERATURE °F			76	75	75	Centrifuge online to trim the mud weight in Pit 1 from 10.7ppg to 10.3ppg. Maintained volume in the active with Pit #2. 28 bbls mud discharged due to cleaning of the Shakers, Header Box and Possum Belly. Seepage downhole = 100bbls (approx 4bph). Performed stockcheck and adjusted inventory as necessary.							
TOTAL MEASURED DEPTH (TMD) Metres			3062	3062	3062								
WEIGHT ppg / SG			10.4	1.25	10.4								
FUNNEL VISCOSITY (sec / qt) API @ 120 °F			56	60	59								
RHEOLOGY 600 : 300 RPM 120 °F			67	49	65								
RHEOLOGY 200 : 100 RPM 120 °F			40	29	36								
RHEOLOGY 6 : 3 RPM 120 °F			10	8	10								
PLASTIC VISCOSITY cP @ 120 °F			18	16	17								
YIELD POINT (lb / 100FT) 2 120 °F			31	33	31								
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min			8	12	14								
n K (lb/100 ft)			0.44	3.14	0.44								
API FILTRATE (cm / 30 min.)			4.8	5.0	5.0	Continued with R/U for wireline testing. RIH & commenced Log #1 - VSP. Shut down due to Schlumberger being out of hours. Completed Log #1, & POOH tools at time of report. A second log is scheduled.							
HPHT FILTRATE (cm / 30 min.) °F													
API : HPHT (Cake / 32nd in.)			1	1	1								
pH			9.0	9.0	9.0								
ALKALINITY MUD (Pm)			0.1	0.1	0.1								
ALKALINITY FILTRATE (Pf / Mf)			0.05	0.9	0.10								
CHLORIDE (mg / L)			53,000	53,000	53,000								
TOTAL HARDNESS AS CALCIUM (mg / L)			400	400	400								
SULPHITE (mg / L)			100	100	100								
PHPA (Calc ppb)			0.00	0.00	0.00								
GLYCOL CONTENT (% V/V)			3	3	3	Water Source Supply Boats							
K+ (mg / L)			44312.799	43232	43232	MUD ACCOUNTING (BBLs)							
KCl (% by Wt.)			8.2	8.0	8.0	SUMMARY							
METHYLENE BLUE CAPACITY (ppb equiv/%)			2.5	0.3	2.5	FLUID BUILT FLUID DISPOSED Start Vol 3158							
SOLIDS CONTENT (% by volume) Calc			7.76	7.76	7.76	Drill Water 0 S.C.E. 2 Boat Rcd 0							
LIQUID CONTENT (% by volume) Calc			92.24	92.24	92.24	Chemical 0 Discharge 28 Boat Bk 0							
SAND CONTENT (% by volume)			0.75	0.75	0.75	Seawater 0 Downhole 100 Built 0							
						Other 0 Other 0 Lost sub 100							
						RECEIVED 0 LOST 130 Lost srf 30							
						TOTAL MUD ON RIG (bbls) 3028							
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT							
Product	UnitSize	Start	Received	Used	Close	Type	Cone Size	No.	Hours	OF	UF	GPM Feed	
						Desander	0	No.	0	0	0	0	
						Desilter	0	No.	0	0	0	0	
						Mud Cleaner			0	0	0	0	
						Centrifuge 1	MI SW FVS518		1	9.8	16	35	
						Centrifuge 2	MI SW FVS518						
						Degasser			0	SOLIDS ANALYSIS			
						Cuttings Dryer			0	HGS %		4.3	
						Shale Shaker #1	40/20/200/165			LGS %		3.5	
						Shale Shaker #2	40/20/200/165			Drilled Solids %		3.195	
						Shale Shaker #3	40/20/165/165			Salt %		3.311	
						Shale Shaker #4	40/20/165/165						
Rheochem Engineer: Kellie Jericho Christian Dimarco						Office: Perth			Telephone: 0894108214			Fax: 0894108214	

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the



RHEOCHEM

Date: 5/06/2008

Report No 21

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE	2	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	28	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	30	bbl

SEEPAGE LOSSES:	5 BBL/HR FOR 20 hr	100	bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		100	bbl
TOTAL DISPOSED:		130	bbl
Interval losses (bbl/ft/m):		4	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	198	230	10.3	KCl/Glycol/PHPA premix
2	Reserve	129	342	10.4	KCl/Glycol/PHPA mud
3a	Active	110	243	10.4	KCl/Glycol/PHPA active
3b	Active	118	243	10.4	KCl/Glycol/PHPA active
4	Reserve	340	508	9.2	BRINE
5	Reserve	12	508	10.5	KCl/Glycol/PHPA premix (dead vol)
Slug Pit	Reserve	30	79	12.6	HW slug
Trip Tank	Reserve	30	70	9.4	KCl/Glycol/PHPA active
Sand Trap	Active	22	54	10.4	KCl/Glycol/PHPA active
Settling Pits	Active	80	81	10.4	KCl/Glycol/PHPA active
Surface Lines	Active	20	80	10.4	

VOLUME SUMMARY:

	+	-
Starting Volume:	3158	
Current Tank Volume:	350	
Total Hole Volume(inc riser):	1939	
Other Volume In Hole:		
Total Riser Volume:	742	
Total Received:		
Total Storage:		
Total Reserve:	739	
Total Disposed:		130
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	3028	bbls



Daily Inventory

Well: Jarver-1
 Report No: 21
 Report Date: 5/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	175		33		208			175
Bentonite FOB (Melbourne)	1000 Kg	1		37		64		26	1
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	42		38		80			42
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	83		157		240			83
Flowzan	25 Kg Sack	87		193		280			87
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	26		6		32			26
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	36		12		48			36
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	8		27		35			8



Report #	22	Total MD	3062	to	3062	m
Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m
Date	6/06/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			1115	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 12.25	No Bit	0	0	0	0	0	19.75 Riser Length 597 m	HOLE 1781	PITS 403	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS 2550 psi		
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 2.910 m						30 Conductor @ 642 m	TOTAL CIRCULATING VOL. 2184		PUMP MODEL National	% EFFICIENCY 97	SURFACE TO BIT 9 min	
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m						20 Surface @ 1,399 m	RESERVE PITS 498		BBL / STK 0.1018	STK / MIN 205	BOTTOMS UP 60 min	
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0	0	0	0	3.325 Intermediate @ 1,942 m		Prod. or LNR @ m	STORAGE TANKS 0		BBL / MIN 20.87	GAL / MIN 877	TOTAL CIRC TIME 88 min	

SAMPLE FROM	Pit	Pit	Pit	MW 10.4	API FL <5	KCI 8.0
MUD TYPE	KGLY	KGLY	KGLY	Hardne <400	6 RPM 8-10	LGS <5

TOTAL MEASURED DEPTH (TMD)	Metres	3062	3062	3062

FUNNEL VISCOSITY (sec / qt) API @ 120 °F	60	59	62

RHEOLOGY 200 : 100 RPM	120 °F	41	30	39	28	41	30	Discharged 35 bbls of mud (dead volume) from Pit 1 and cleaned in preparation for the Inhibition Computer
RHEOLOGY 200 : 100 RPM	120 °F	41	30	39	28	41	30	

PLASTIC VISCOSITY cP @	120 °F	18	17	17
YIELD POINT (lb / 100FT) ²	120 °F	33	31	31

GEL STRENGTH (lb/100ft) - 10sec/10min/30min		9	12	14	9	12	14	10	14	17
n	K (lb/100 ft)	0.41	3.84	0.41	3.84	0.41	3.84	Completed Log #2 CST Ripped down Schlumberger		

DEPTH RATE (cm / 30 min.)	3.0	3.0	3.0	conditioned mud. Pumped 15bbls spacer, 79bbl of
HPHT FILTRATE (cm / 30 min.)	0.0			15.8ppg Cement slurry (Plug #1a) & displaced with mud

pH	9.2	9.2	9.2	midnight.

ALKALINITY FILTRATE (Pf / Mf)	0.05	0.9	0.05	0.9	0.05	0.9

TOTAL HARDNESS AS CALCIUM (mg / L)	400	400	400	Water Source	Supply Boats

PHPA (Calc ppb)	0.00	0.00	0.00	MOD ACCOUNTING (BBES)	SUMMARY
				FLUID BUILT	FLUID DISPOSED

K+ (mg / L)	43232	43232	43232	Drill Water	9	S.C.E.	9	Boat Red	252
				Chemical	0	Discharge	35	Boat Bk	252

METHYLENE BLUE CAPACITY (ppb equiv/%)	2.5	0.3	2.5	0.3	2.5	0.3	Other	0	Other	0	Lost sub	54

LIQUID CONTENT (% by volume) Calc	92.24	92.24	92.24	
SAND CONTENT (% by volume)	0.75	0.75	0.75	
				TOTAL MUD ON RIG (bbl/s) 2682

PRODUCT USAGE	SOLIDS CONTROL EQUIPMENT

Bentonite FOB (Melbourne)	1000 Kg	1	42	0	43	Desander	Cone Size	0	No.		0	0	0	0

Drispac SL	25 kg Sack	83	80	0	163	Mud Cleaner		0	0	0	0
Fl	25 kg Sack	85	10	0	165	Centrifugal	MILWAUKEE				

						Centrifuge z	Mt SW FV3576			
						Degasser		0	SOLIDS ANALYSIS	

						Shale Shaker #1	40/20/200/165	4	IGS %	3.5

						Shale Shaker #2	40/20/165/165	4	Unified Grains %	3.155
						Shale Shaker #3	40/20/165/165	4	Salt %	3.311

[illegible]

Rheochem Engineer: Kellie Jericho Christian Dimarco **Office:** Perth **Telephone:** 0894108214 **Fax:** 0894108214

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RHEOCHEM

Date: 6/06/2008

Report No 22

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	252
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	5	bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	35	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	40	bbl

SEEPAGE LOSSES:	3	BBL/HR FOR	18	hr	54	bbl
LOST CIRCULATION:						bbl
LOST BEHIND CASING/LEFT DOWNHOLE:						bbl
OTHER SUB-SURFACE LOSSES:						bbl
Sub-surface Losses Subtotal:					54	bbl
TOTAL DISPOSED:					94	bbl
Interval losses (bbl/ft/m):					4	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Reserve	0	230	0	empty for SW displacement fluid
2	Reserve	134	342	10.4	KCl/Glycol/PHPA mud
3a	Active	139	243	10.4	KCl/Glycol/PHPA active
3b	Active	142	243	10.4	KCl/Glycol/PHPA active
4	Reserve	88	508	9.2	Brine d/v after transfer
5	Reserve	218	508	10.4	KCl/Glycol/PHPA mud
Slug Pit	Reserve	33	79	12.6	HW SLUG
Trip Tank	Reserve	25	70	10.4	KCl/Glycol/PHPA active
Sand Trap	Active	22	54	10.4	KCl/Glycol/PHPA active
Settling Pits	Active	80	81	10.4	KCl/Glycol/PHPA active
Surface Lines	Active	20	80	10.4	KCl/Glycol/PHPA active

VOLUME SUMMARY:

	+	-
Starting Volume:	3028	
Current Tank Volume:	403	
Total Hole Volume(inc riser):	1781	
Other Volume In Hole:	96	
Total Riser Volume:	742	
Total Received:		
Total Storage:		
Total Reserve:	498	
Total Disposed:		94
Total Backloaded to LMP:		252
Total Received from LMP:		
TOTAL MUD AT RIGSITE	2682	bbls



Daily Inventory

Well: Jarver-1
Report No: 22
Report Date: 6/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	175		33		208			175
Bentonite FOB (Melbourne)	1000 Kg	1		37	42	106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg				28	28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	42		38		80			42
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	83		157	80	320			163
Flowzan	25 Kg Sack	87		193	40	320			127
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	26		6		32			26
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	36		12		48			36
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	8		27		35			8



WATER BASED MUD

Daily Drilling Report

Report #	23	Total MD	3062	to	3062	m
Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m
Date	7/06/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			1115	m

OPERATOR	Santos Ltd	CONTRACTOR	Diamond Offshore	
REPORT FOR	Chris Roots/Nathan Peri	REPORT FOR	Troy Williams/ Mike Praznik	
WELL NAME AND No.	Jarver-1	FIELD	LOCATION	STATE
		T/33P	Sorell Basin	Tasmania

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 12.25	No Bit	0	0	0	0	0	19.75 Riser Length	597 m	HOLE 0	PITS 0	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS 1850 psi	
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 1.846 m							30 Conductor @	642 m	TOTAL CIRCULATING VOL. 0		PUMP MODEL National	% EFFICIENCY 97
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m					20 Surface @	1,399 m	RESERVE PITS 1836		BBL / STK 0.1018	STK / MIN 200	BOTTOMS UP 62 min	
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0	0	m			3.325 Intermediate @	1,942 m	STORAGE TANKS 0		BBL / MIN 20.36	GAL / MIN 855	TOTAL CIRC TIME 71 min	
							Prod. or LNR @	m						

MUD PROPERTIES

MUD PROPERTY SPECIFICATIONS

SAMPLE FROM			Pit		Pit		Pit		MW	10.4	API FL	<5	KCI	8.0			
MUD TYPE			KGLY		KGLY		KGLY		Hardne	<400	6 RPM	8-10	LGS	<5			
TIME SAMPLE TAKEN			3:00		10:30		21:30		MUD COMMENTS								
FLOWLINE TEMPERATURE °F									Backloaded 45MT Barite to Pacific Wrangler. Monitored cement returns after plug 1A. No green cement observed but discharged cement contaminated mud to limit the worst of the mud. Treated active w/ S-Bicarb & Citric Acid. No green cement observed at the shakers after plug 1b. Prepared 2x50bbl pumpable 10.4ppg Hi Vis Pill for Plugs 2 & 3. So far centrifuged pit#2 to 9.3ppg.								
TOTAL MEASURED DEPTH (TMD) Metres			3062		3062		3062										
WEIGHT ppg / SG			10.4	1.24	10.4	1.25	10.4	1.25									
FUNNEL VISCOSITY (sec / qt) API @ 120 °F			62		66		65										
RHEOLOGY 600 : 300 RPM 120 °F			64	48	71	52	69	51	**Discharged 85bbl cement contam'd mud from plug 1A. **Dumped 20bbl dead Heavy weight slugs. **Discharged 10bbl mud from the cement unit. **Dumped dead volume of 89bbls in Pits 4/5 & cleaned.								
RHEOLOGY 200 : 100 RPM 120 °F			39	28	43	32	45	34									
RHEOLOGY 6 : 3 RPM 120 °F			10	8	11	9	11	9									
PLASTIC VISCOSITY cP @ 120 °F			16		19		18										
YIELD POINT (lb / 100FT) 2 120 °F			32		33		33		OPERATIONAL COMMENTS Cont'd w/ P & A per Santos' program. Set plugs 1A + 1B (bottom plugs) & plug 2 (13 3/8" casing shoe). L/O excess DP, WOC & RIH to tag TOC plug #2 @ 1846m. Circ & displaced mud inside casing & riser to Inhibited Seawater (w/ 0.2 ppb Idcide-20 & 0.25 ppb Sod-Sulp). **Displaced w/ 1317 bbls Inhibited Seawater. **Mud salvaged to tanks on displacement = 1223bbls **Discharged excess mud on displacement = 94bbls. **Mud left below Plug #2= 363bbls (left d/hole). **Seepage before setting Plug #2 = 24bbls. **Dumped & cleaned Sandtraps & Settling Pit = 102bbls. **Dumped Trip Tank = 8bbls mud. In progress of L/O to 800m & preparing for Plug #3.								
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min			8	12	14	9	13	15							11	15	17
n K (lb/100 ft)			0.44	3.37	0.44	3.37	0.44	3.37									
API FILTRATE (cm / 30 min.)			6.2		6.0		6.0										
HPHT FILTRATE (cm / 30 min.) °F									Water Source Supply Boats								
API : HPHT (Cake / 32nd in.)			1		1		1										
pH			10.0		10.0		9.5										
ALKALINITY MUD (Pm)			1.5		0.9		0.3										
ALKALINITY FILTRATE (Pf / Mf)			0.35	1.5	0.35	1.5	0.15	1.9	MUD ACCOUNTING (BBLS) SUMMARY								
CHLORIDE (mg / L)			53,000		53,000		53,000										
TOTAL HARDNESS AS CALCIUM (mg / L)			360		560		600										
SULPHITE (mg / L)			120		120		120										
PHPA (Calc ppb)			0.00		0.00		0.00		FLUID BUILT		FLUID DISPOSED		Start Vol	2682			
GLYCOL CONTENT (% V/V)			3		3		3		Drill Water	0	S.C.E.	57	Boat Rcd	0			
K+ (mg / L)			43232		43232		43232		Chemical	6	Discharge	408	Boat Bk	0			
KCl (% by Wt.)			8.0		8.0		8.0		Seawater	0	Downhole	387	Built	6			
METHYLENE BLUE CAPACITY (ppb equiv/%)			2.5	0.3	2.5	0.3	2.5	0.3	Other	0	Other	0	Lost sub	387			
SOLIDS CONTENT (% by volume) Calc			7.37		7.76		7.76		RECEIVED	6	LOST	852	Lost srf	465			
LIQUID CONTENT (% by volume) Calc			92.63		92.24		92.24		TOTAL MUD ON RIG (bbls) 1836								
SAND CONTENT (% by volume)			0.75		0.75		0.5										

PRODUCT USAGE

SOLIDS CONTROL EQUIPMENT

Product	UnitSize	Start	Received	Used	Close	Type					Hours	OF	UF	GPM Feed
Citric Acid	25 Kg Sack	42	0	16	26	Desander	Cone Size	0	No.		0	0	0	0
Sodium Bicarbonate	25 Kg Sack	36	0	10	26	Desilter	Cone Size	0	No.		0	0	0	0
Idcide-20	20 Ltr Drum	26	0	7	19	Mud Cleaner					0	0	0	0
Sodium Sulphite	25 Kg	8	0	7	1	Centrifuge 1	MI SW FVS518				8	9.3	12.4	45
Flowzan	25 Kg Sack	127	0	4	123	Centrifuge 2	MI SW FVS518				8	9.3	13	45
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		4.3
						Shale Shaker #1	40/20/200/165				12	LGS %		3.5
						Shale Shaker #2	40/20/200/165				12	Drilled Solids %		3.195
						Shale Shaker #3	40/20/165/165				12	Salt %		3.311
						Shale Shaker #4	40/20/165/165				12			

Rheochem Engineer: Kellie Jericho

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Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the use of the same.



RHEOCHEM

Date: 7/06/2008

Report No 23

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added	6	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	6	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:	12	bbl
LOSSES TO CENTRIFUGE	45	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	408	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	465	bbl

SEEPAGE LOSSES:	3 BBL/HR FOR 8 hr	24	bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:		363	bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		387	bbl
TOTAL DISPOSED:		852	bbl
Interval losses (bbl/ft/m):		7	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	Inhibited Seawater for displacement
2	Reserve	333	342	9.3	Mud centrifuged
3a	Reserve	235	243	10.4	Mud
3b	Reserve	238	243	10.4	Mud
4	Reserve	495	508	10.4	Mud
5	Reserve	475	508	10.4	Mud
Slug Pit	Reserve	60	79	10.4	Mud - HiVis for setting Plug 3
Trip Tank	Reserve	0	70	0	Dumped & cleaned
Sand Trap	Reserve	0	54	0	Dumped & cleaned
Settling Pits	Reserve	0	81	0	Dumped & cleaned
Surface Lines	Reserve	0	80	0	Dumped & cleaned

VOLUME SUMMARY:

	+	-
Starting Volume:	2682	
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1899	
Total Riser Volume:	742	
Total Received:	6	
Total Storage:		
Total Reserve:	1836	
Total Disposed:		852
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE	1836	bbls



Daily Inventory

Well: Jarver-1
Report No: 23
Report Date: 7/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	175		33		208	45	45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	42	16	54		80			26
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	127	4	197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	26	7	13		32			19
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	36	10	22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	8	7	34		35			1

 WATER BASED MUD Daily Drilling Report	Report #	24	Total MD	3062	to	3062	m					
	Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m					
	Date	8/06/2008	Daily Depth Drilled	0 m								
	Spud Date	16/05/2008	Interval Depth Drilled	1115 m								
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore				
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ Mike Praznik				
WELL NAME AND No.			Jarver-1		FIELD		T/33P					
					LOCATION		Sorell Basin					
					STATE		Tasmania					
BHA	BIT TYPE	JET SIZE		DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA				
BIT SIZE (")	No Bit	0 0 0 0 0 0		19.75 Riser Length 597 m		HOLE 39 PITS 0		PUMP SIZE 6 x 12 Inches				
DRILL PIPE SIZE (")	5	LENGTH 0 m		30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 39		PUMP MODEL National				
DRILL PIPE SIZE (")	6.53	LENGTH 0 m		20 Surface @ 1,399 m		RESERVE PITS 825		% EFFICIENCY 97				
DRILL COLLAR SIZE (")	8	LENGTH 0 m		3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		SURFACE TO BIT 0 min				
	8.25	0 0 m		Prod. or LNR @ m				BOTTOMS UP 0 min				
								TOTAL CIRC TIME min				
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS							
SAMPLE FROM		Pit		Pit		Pit		MW 10.4				
MUD TYPE		KGLY		KGLY		KGLY		API FL <5				
TIME SAMPLE TAKEN		3:00		7:00		19:00		KCI 8.0				
FLOWLINE TEMPERATURE °F								Hardne <400				
TOTAL MEASURED DEPTH (TMD) Metres		3062		3062		3062		6 RPM 8-10				
WEIGHT ppg / SG		10.4 1.24		9.6 1.15		9.6 1.15		LGS <5				
FUNNEL VISCOSITY (sec / qt) API @ 120 °F		70		56		58		MUD COMMENTS				
RHEOLOGY 600 : 300 RPM 120 °F		67 48		51 37		56 41		Centrifuged surface mud with each machine set at 3000 rpm/42gpm. Backload to the P-Wrangler, approx 820bbls of mud @ 9.6ppg per DRR request. (Treated with 3 gal/100 bbl ldcide)				
RHEOLOGY 200 : 100 RPM 120 °F		38 28		30 23		36 26		Dumped 10bbls dead vol from Slug Pit.				
RHEOLOGY 6 : 3 RPM 120 °F		9 7		7 6		9 7		Filled Slug Pit with Seawater, and dumped seawater in Pit 1.				
PLASTIC VISCOSITY cP @ 120 °F		19		14		15		**Test #1 on mud displaced from the well.				
YIELD POINT (lb / 100FT) 2 120 °F		29		23		26		**Test #2 on centrifuged mud in Pit #5. Retort (uncorrected) = 8% solids.				
GEL STRENGTH (lb / 100FT 3 10sec/10min/30min		9 19 22		7 9 11		8 11 13		**Test #3 on centrifuged mud in Pits #4/5, at time of backload.				
n K (lb/100 ft)		0.45 2.48		0.45 2.48		0.45 2.48		OPERATIONAL COMMENTS				
API FILTRATE (cm / 30 min.)		6.5		6.5		6.5		Continued to POOH to +/-800m.				
HPHT FILTRATE (cm / 30 min.) °F								Spotted 48 bbl HiVis (10.4ppg) pill, displaced with seawater, POOH & set the 3rd (final) cement plug as per programme, displacing the cement with inhibited Seawater from Pit#1. POOH then reverse circulated B/Up with inhibited Seawater. Pumped 15 bbl of 10.4 ppg mud as a pill to aid in POOH dry. Retrieve wear bushing. MU 13-3/8" casing cutter assembly & RIH. RIH to retrieve 13.375" casing hanger, but dropped during POOH thru BOPs. Prepare to fish at time of report.				
API : HPHT (Cake / 32nd in.)		1		1		1		**63bbl Downhole losses = 48 bbl HiVis + 15 bbl slug				
pH		11.5		10.3		10.3		Water Source				
ALKALINITY MUD (Pm)		1.8		0.6		0.6		Supply Boats.				
ALKALINITY FILTRATE (Pf / Mf)		0.40 2.0		0.20 2.2		0.18 1.9		MUD ACCOUNTING (BBLs)				
CHLORIDE (mg / L)		50,000		48,000		48,000		SUMMARY				
TOTAL HARDNESS AS CALCIUM (mg / L)		800		1040		880		FLUID BUILT				
SULPHITE (mg / L)		100		100		80		FLUID DISPOSED				
PHPA (Calc ppb)		0.00		0.00		0.00		Drill Water				
GLYCOL CONTENT (% V/V)		3		3		3		0 S.C.E.				
K+ (mg / L)		43232		43232		43232		84				
KCl (% by Wt.)		8.0		8.0		8.0		10				
METHYLENE BLUE CAPACITY (ppb equiv/%)		2.5 0.3		2.5 0.3		2.5 0.3		63				
SOLIDS CONTENT (% by volume) Calc		7.96		4.26		4.26		0				
LIQUID CONTENT (% by volume) Calc		92.04		95.74		95.74		0				
SAND CONTENT (% by volume)		0.75		0.25		0.2		0				
								5				
								157				
								TOTAL MUD ON RIG (bbls)				
								864				
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type	Cone Size	No.	Hours	OF	UF	GPM Feed
Citric Acid	25 Kg Sack	26	0	26	0	Desander	0	No.	0	0	0	0
Idcide-20	20 Ltr Drum	19	0	6	13	Desilter	0	No.	0	0	0	0
Sodium Sulphite	25 Kg	1	0	1	0	Mud Cleaner			0	0	0	0
						Centrifuge 1	MI SW FVS518		23	9.25	13	45
						Centrifuge 2	MI SW FVS518		23	9.25	13	45
						Degasser			0	SOLIDS ANALYSIS		
						Cuttings Dryer			0	HGS %	2.2	
						Shale Shaker #1	40/20/200/165		7	LGS %	2.0	
						Shale Shaker #2	40/20/200/165		7	Drilled Solids %	1.744	
						Shale Shaker #3	40/20/165/165		7	Salt %	2.970	
						Shale Shaker #4	40/20/165/165		7			
Rheochem Engineer: Kellie Jericho Christian Dimarco						Office: Perth Telephone: 0894108214 Fax: 0894108214						

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RHEOCHEM

Date: 8/06/2008

Report No 24

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added	5	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	5	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	820
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE	84	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	10	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	94	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:		63	bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		63	bbl
TOTAL DISPOSED:		157	bbl
Interval losses (bbl/ft/m):		12	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	333	342	9.75	Partially centrifuged
3a	Reserve	18	243	9.65	Dead Volume
3b	Reserve	18	243	9.65	Dead Volume
4	Reserve	19	508	9.6	Dead volume
5	Reserve	437	508	9.3	Centrifuged
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:	1836	
Current Tank Volume:		
Total Hole Volume(inc riser):	39	
Other Volume In Hole:	1899	
Total Riser Volume:	742	
Total Received:	5	
Total Storage:		
Total Reserve:	825	
Total Disposed:		157
Total Backloaded to LMP:		820
Total Received from LMP:		
TOTAL MUD AT RIGSITE	864	bbls



Daily Inventory

Well: Jarver-1
 Report No: 24
 Report Date: 8/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack	26	26	80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	19	6	19		32			13
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg	1	1	35		35			

 WATER BASED MUD Daily Drilling Report Rheochem	Report #	25	Total MD	3062	to	3062	m					
	Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m					
	Date	9/06/2008	Daily Depth Drilled	0 m								
	Spud Date	16/05/2008	Interval Depth Drilled	1115 m								
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore				
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ Mike Praznik				
WELL NAME AND No.			Jarver-1		FIELD		T/33P					
					LOCATION		Sorell Basin					
					STATE		Tasmania					
BHA	BIT TYPE	JET SIZE		DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA				
BIT SIZE (")	No Bit	0 0 0 0 0 0		19.75 Riser Length 597 m		HOLE 0 PITS 0		PUMP SIZE 6 x 12 Inches				
DRILL PIPE SIZE (")	5	LENGTH 0 m		30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 0		PUMP MODEL National				
DRILL PIPE SIZE (")	6.53	LENGTH 0 m		20 Surface @ 1,399 m		RESERVE PITS 0		% EFFICIENCY 97				
DRILL COLLAR SIZE (")	8	LENGTH 0 m		3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		SURFACE TO BIT 0 min				
	8.25	0 0 m		Prod. or LNR @ m				BOTTOMS UP 0 min				
								TOTAL CIRC TIME min				
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS							
SAMPLE FROM					Pit		Pit		MW 10.4			
MUD TYPE					KGLY		KGLY		API FL <5			
TIME SAMPLE TAKEN					2:00		3:00		KCI 8.0			
FLOWLINE TEMPERATURE °F									Hardne <400			
TOTAL MEASURED DEPTH (TMD) Metres					3062		3062		6 RPM 8-10			
WEIGHT ppg / SG					9.4 1.13		9.3 1.12		LGS <5			
FUNNEL VISCOSITY (sec / qt) API @ 120 °F					56		64		MUD COMMENTS			
RHEOLOGY 600 : 300 RPM 120 °F					46 33		57 42		Continued to centrifuge Surface mud and then treated it with 3gal/100bbl Idcide.			
RHEOLOGY 200 : 100 RPM 120 °F					27 20		35 26		Mud Check #1 (Pit 2); was a blend of cement contaminated mud, non-cement contaminated mud and the dead volume of brine. Higher Chlorides/Glycol % is due to the brine. Retort (Uncorrected) on Check #1 = 7.5% solids.			
RHEOLOGY 6 : 3 RPM 120 °F					7 6		9 7		Mud Check #2 (Pit 5); was centrifuged mud from the active system (Pits 3A/B originally). Uncorrected Solids from retort on Check #2= 6.5%.			
PLASTIC VISCOSITY cP@ 120 °F					13		15		** Backloaded 315 bbl of 9.45ppg KCl/Glycol (Pit 2) and 430 bbl of 9.35 ppg KCl/Glycol fluid (Pit 5) to P-Wrangler.			
YIELD POINT (lb / 100FT) ^2 120 °F					20		27		OPERATIONAL COMMENTS			
GEL STRENGTH (lb / 100FT ^3 10sec/10min/30min					5 6 7		9 12 14		Continued to Cut and Retrieve 13.375" casing hanger seal assembly. Pulled out and laid out diverter. Unlatched stack from well head and commenced POOH riser and loading it onto supply boats.			
n K (lb/100 ft) 0.44 2.70					0.44 2.70		0.44 2.70		**106 bbl discharged in dead volume.			
API FILTRATE (cm / 30 min.)					6		7		** Total Mud Backloaded to the Pacific Wrangler = 1565 bbl.			
HPHT FILTRATE (cm / 30 min.) °F												
API : HPHT (Cake / 32nd in.)					1		1					
pH					10.3		10.3					
ALKALINITY MUD (Pm)					0.3		0.6					
ALKALINITY FILTRATE (Pf / Mf)					0.15 1.1		0.20 1.8					
CHLORIDE (mg / L)					61,000		50,000					
TOTAL HARDNESS AS CALCIUM (mg / L)					440		880					
SULPHITE (mg / L)					60		80					
PHPA (Calc ppb)					0.00		0.00					
GLYCOL CONTENT (% V/V)					3.5		3					
K+ (mg / L)					54040		43232					
KCl (% by Wt.)					10.0		8.0					
METHYLENE BLUE CAPACITY (ppb equiv/%)					2.0 0.2		2.5 0.3					
SOLIDS CONTENT (% by volume) Calc 0.00					3.32		3.16					
LIQUID CONTENT (% by volume) Calc 0.00					96.68		96.84					
SAND CONTENT (% by volume)					0.15		0.1					
PRODUCT USAGE					SOLIDS CONTROL EQUIPMENT							
Product	UnitSize	Start	Received	Used	Close	Type	Cone Size	No.	Hours	OF	UF	GPM Feed
Icdide-20	20 Ltr Drum	13	0	7	6	Desander	0	No.	0	0	0	0
						Desilter	0	No.	0	0	0	0
						Mud Cleaner			0	0	0	0
						Centrifuge 1	MI SW FVS518		3	9.3	13	42
						Centrifuge 2	MI SW FVS518		3	9.3	13	42
						Degasser			0	SOLIDS ANALYSIS		
						Cuttings Dryer			0	HGS %		1.3
						Shale Shaker #1	40/20/200/165			LGS %		1.9
						Shale Shaker #2	40/20/200/165			Drilled Solids %		1.589
						Shale Shaker #3	40/20/165/165			Salt %		3.094
						Shale Shaker #4	40/20/165/165					
Rheochem Engineer: Kellie Jericho Christian Dimarco					Office: Perth					Telephone: 0894108214 Fax: 0894108214		

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the



RHEOCHEM

Date: 9/06/2008

Report No 25

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added	1	bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	1	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	745
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE	14	bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:	106	bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	120	bbl

SEEPAGE LOSSES: 0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:		bbl
LOST BEHIND CASING/LEFT DOWNHOLE:		bbl
OTHER SUB-SURFACE LOSSES:		bbl
Sub-surface Losses Subtotal:	0	bbl
TOTAL DISPOSED:	120	bbl
Interval losses (bbl/ft/m):	13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:	864	
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1938	
Total Riser Volume:	742	
Total Received:	1	
Total Storage:		
Total Reserve:		
Total Disposed:		120
Total Backloaded to LMP:		745
Total Received from LMP:		
TOTAL MUD AT RIGSITE	0	bbls



Daily Inventory

Well: Jarver-1
 Report No: 25
 Report Date: 9/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	13	7	26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			



Report #	26	Total MD	3062	to	3062	m
Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m
Date	10/06/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			1115	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 12.25	No Bit	0	0	0	0	0	0.00 Riser Length	597 m	HOLE 0	PITS 0	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS psi	
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 0 m							30 Conductor @ 642 m	TOTAL CIRCULATING VOL. 0		PUMP MODEL National	% EFFICIENCY 97	SURFACE TO BIT 0 min
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m					20 Surface @ 1,399 m	3.325 Intermediate @ 1,942 m	RESERVE PITS 0		BBL / STK	STK / MIN	BOTTOMS UP 0 min	
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0	0	0	0	0	Prod. or LNR @ m		STORAGE TANKS 0		BBL / MIN	GAL / MIN	TOTAL CIRC TIME min	

MUD PROPERTY SPECIFICATIONS

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type				Hours	OF	UF	GPM Feed	
						Desander	Cone Size	0	No.		0	0	0	0
						Desilter	Cone Size	0	No.		0	0	0	0
						Mud Cleaner					0	0	0	0
						Centrifuge 1	MI SW FVS518							
						Centrifuge 2	MI SW FVS518							
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.0
						Shale Shaker #1	40/20/200/165					LGS %		0.0
						Shale Shaker #2	40/20/200/165					Drilled Solids %		0.000
						Shale Shaker #3	40/20/165/165					Salt %		
						Shale Shaker #4	40/20/165/165							

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RHEOCHEM

Date: 10/06/2008

Report No 26

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		0	bbl
TOTAL DISPOSED:		0	bbl
Interval losses (bbl/ft/m):		13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 26
 Report Date: 10/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			

 WATER BASED MUD Daily Drilling Report	Report #	27	Total MD	3062	to	3062	m					
	Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m					
	Date	11/06/2008	Daily Depth Drilled	0 m								
	Spud Date	16/05/2008	Interval Depth Drilled	1115 m								
OPERATOR			Santos Ltd		CONTRACTOR			Diamond Offshore				
REPORT FOR			Chris Roots/Nathan Peri		REPORT FOR			Troy Williams/ Mike Praznik				
WELL NAME AND No.			Jarver-1		FIELD		T/33P					
					LOCATION		Sorell Basin					
					STATE		Tasmania					
BHA	BIT TYPE	JET SIZE		DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA				
BIT SIZE (")	No Bit	0 0 0 0 0 0		0.00 Riser Length 597 m		HOLE 0 PITS 0		PUMP SIZE 6 x 12 Inches				
12.25								CIRCULATION PRESS psi				
DRILL PIPE SIZE (")	TYPE	LENGTH 0 m		30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 0		PUMP MODEL National				
5	dp							% EFFICIENCY 97				
DRILL PIPE SIZE (")	TYPE	LENGTH 0 m		20 Surface @ 1,399 m		RESERVE PITS 0		SURFACE TO BIT 0 min				
6.53	HW							BBL / STK				
DRILL COLLAR SIZE (")		LENGTH 0 m		3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		STK / MIN				
8								BBL / MIN				
	8.25			Prod. or LNR @ m				GAL / MIN				
								TOTAL CIRC TIME min				
MUD PROPERTIES					MUD PROPERTY SPECIFICATIONS							
SAMPLE FROM					MW 10.4 API FL <5 KCI 8.0							
MUD TYPE					Hardne <400 6 RPM 8-10 LGS <5							
TIME SAMPLE TAKEN 0:00					MUD COMMENTS							
FLOWLINE TEMPERATURE °F					Standing by for the move to the new location - Pecten East 1.							
TOTAL MEASURED DEPTH (TMD) Metres												
WEIGHT ppg / SG												
FUNNEL VISCOSITY (sec / qt) API @ °F												
RHEOLOGY 600 : 300 RPM °F												
RHEOLOGY 200 : 100 RPM °F												
RHEOLOGY 6 : 3 RPM °F												
PLASTIC VISCOSITY cP @ °F												
YIELD POINT (lb / 100FT) °F												
GEL STRENGTH (lb / 100FT) 10sec/10min/30min												
n K (lb/100 ft)												
API FILTRATE (cm / 30 min.)												
HPHT FILTRATE (cm / 30 min.) °F												
API : HPHT (Cake / 32nd in.)												
pH												
ALKALINITY MUD (Pm)												
ALKALINITY FILTRATE (Pf / Mf)												
CHLORIDE (mg / L)												
TOTAL HARDNESS AS CALCIUM (mg / L)												
SULPHITE (mg / L)												
PHPA (Calc ppb)												
GLYCOL CONTENT (% V/V)												
K+ (mg / L)												
KCI (% by Wt.)												
METHYLENE BLUE CAPACITY (ppb equiv/%)												
SOLIDS CONTENT (% by volume) Calc 0.00												
LIQUID CONTENT (% by volume) Calc 0.00												
SAND CONTENT (% by volume)												
					Water Source Supply Boats							
					MUD ACCOUNTING (BBLs) SUMMARY							
					FLUID BUILT FLUID DISPOSED Start Vol 0							
					Drill Water 0 S.C.E. 0 Boat Rcd 0							
					Chemical 0 Discharge 0 Boat Bk 0							
					Seawater 0 Downhole 0 Built 0							
					Other 0 Other 0 Lost sub 0							
					RECEIVED 0 LOST 0 Lost srf 0							
					TOTAL MUD ON RIG (bbls) 0							
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type			Hours	OF	UF	GPM Feed
						Desander	Cone Size 0 No.		0	0	0	0
						Desilter	Cone Size 0 No.		0	0	0	0
						Mud Cleaner			0	0	0	0
						Centrifuge 1	MI SW FVS518					
						Centrifuge 2	MI SW FVS518					
						Degasser			0	SOLIDS ANALYSIS		
						Cuttings Dryer			0	HGS %		0.0
						Shale Shaker #1	40/20/200/165			LGS %		0.0
						Shale Shaker #2	40/20/200/165			Drilled Solids %		0.000
						Shale Shaker #3	40/20/165/165			Salt %		
						Shale Shaker #4	40/20/165/165					
Rheochem Engineer: Kellie Jericho						Office: Perth		Telephone: 0894108214		Fax: 0894108214		

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RHEOCHEM

Date: 11/06/2008

Report No 27

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 27
 Report Date: 11/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			



Report #	28	Total MD	3062	to	3062	m
Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m
Date	12/06/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			1115	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 12.25	No Bit	0	0	0	0	0	0.00 Riser Length	597 m	HOLE 0	PITS 0	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS psi	
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 0 m							30 Conductor @	642 m	TOTAL CIRCULATING VOL. 0		PUMP MODEL National	% EFFICIENCY 97
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m					20 Surface @	1,399 m	RESERVE PITS 0		BBL / STK	STK / MIN	BOTTOMS UP 0 min	
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0		0		m	3.325 Intermediate @	1,942 m	STORAGE TANKS 0		BBL / MIN	GAL / MIN	TOTAL CIRC TIME min	
							Prod. or LNR @	m						

MUD PROPERTY SPECIFICATIONS

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type				Hours	OF	UF	GPM Feed	
						Desander	Cone Size	0	No.		0	0	0	0
						Desilter	Cone Size	0	No.		0	0	0	0
						Mud Cleaner					0	0	0	0
						Centrifuge 1	MI SW FVS518							
						Centrifuge 2	MI SW FVS518							
						Degasser					0	SOLIDS ANALYSIS		
						Cuttings Dryer					0	HGS %		0.0
						Shale Shaker #1	40/20/200/165					LGS %		0.0
						Shale Shaker #2	40/20/200/165					Drilled Solids %		0.000
						Shale Shaker #3	40/20/165/165					Salt %		
						Shale Shaker #4	40/20/165/165							

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RHEOCHEM

Date: 12/06/2008

Report No 28

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 28
 Report Date: 12/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			

 Rheochem	WATER BASED MUD Daily Drilling Report		Report #	29	Total MD	3062	to	3062	m			
			Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m			
			Date	13/06/2008	Daily Depth Drilled	0			m			
			Spud Date	16/05/2008	Interval Depth Drilled	1115			m			
OPERATOR			Santos Ltd			CONTRACTOR			Diamond Offshore			
REPORT FOR			Chris Roots/Nathan Peri			REPORT FOR			Troy Williams/ Mike Praznik			
WELL NAME AND No.			Jarver-1			FIELD			T/33P			
						LOCATION			Sorell Basin			
						STATE			Tasmania			
BHA	BIT TYPE	JET SIZE		DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA				
BIT SIZE (")	No Bit	0 0 0 0 0 0		0.00 Riser Length 597 m		HOLE 0 PITS 0		PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS psi		
DRILL PIPE SIZE (")	5	LENGTH 0 m		30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 0		PUMP MODEL National		% EFFICIENCY 97		
DRILL PIPE SIZE (")	6.53	LENGTH 0 m		20 Surface @ 1,399 m		RESERVE PITS 0		BBL / STK		STK / MIN		
DRILL COLLAR SIZE (")	8	LENGTH 0 m		3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		BBL / MIN		GAL / MIN		
	8.25	0 0 m		Prod. or LNR @ m						TOTAL CIRC TIME min		
MUD PROPERTIES						MUD PROPERTY SPECIFICATIONS						
SAMPLE FROM						MW 10.4 API FL <5 KCI 8.0						
MUD TYPE						Hardne <400 6 RPM 8-10 LGS <5						
TIME SAMPLE TAKEN						MUD COMMENTS						
FLOWLINE TEMPERATURE °F						Continue to stand-by for Rig Move.						
TOTAL MEASURED DEPTH (TMD) Metres												
WEIGHT ppg / SG												
FUNNEL VISCOSITY (sec / qt) API @ °F												
RHEOLOGY 600 : 300 RPM °F												
RHEOLOGY 200 : 100 RPM °F												
RHEOLOGY 6 : 3 RPM °F												
PLASTIC VISCOSITY cP @ °F												
YIELD POINT (lb / 100FT) °F												
GEL STRENGTH (lb / 100FT) 10sec/10min/30min												
n K (lb/100 ft)												
API FILTRATE (cm / 30 min.)												
HPHT FILTRATE (cm / 30 min.) °F												
API : HPHT (Cake / 32nd in.)												
pH												
ALKALINITY MUD (Pm)												
ALKALINITY FILTRATE (Pf / Mf)												
CHLORIDE (mg / L)												
TOTAL HARDNESS AS CALCIUM (mg / L)												
SULPHITE (mg / L)												
PHPA (Calc ppb)												
GLYCOL CONTENT (% V/V)												
K+ (mg / L)												
KCI (% by Wt.)												
METHYLENE BLUE CAPACITY (ppb equiv/%)												
SOLIDS CONTENT (% by volume) Calc 0.00												
LIQUID CONTENT (% by volume) Calc 0.00												
SAND CONTENT (% by volume)												
						Water Source Supply Boats						
						MUD ACCOUNTING (BBLs)				SUMMARY		
						FLUID BUILT		FLUID DISPOSED		Start Vol	0	
						Drill Water	0	S.C.E.	0	Boat Rcd	0	
						Chemical	0	Discharge	0	Boat Bk	0	
						Seawater	0	Downhole	0	Built	0	
						Other	0	Other	0	Lost sub	0	
						RECEIVED	0	LOST	0	Lost srf	0	
						TOTAL MUD ON RIG (bbls) 0						
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type			Hours	OF	UF	GPM Feed
						Desander	Cone Size 0 No.		0	0	0	0
						Desilter	Cone Size 0 No.		0	0	0	0
						Mud Cleaner			0	0	0	0
						Centrifuge 1	MI SW FVS518					
						Centrifuge 2	MI SW FVS518					
						Degasser			0	SOLIDS ANALYSIS		
						Cuttings Dryer			0	HGS %		0.0
						Shale Shaker #1	40/20/200/165			LGS %		0.0
						Shale Shaker #2	40/20/200/165			Drilled Solids %		0.000
						Shale Shaker #3	40/20/165/165			Salt %		
						Shale Shaker #4	40/20/165/165					
Rheochem Engineer: Kellie Jericho						Office: Perth		Telephone: 0894108214		Fax: 0894108214		

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RHEOCHEM

Date: 13/06/2008

Report No 29

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 29
 Report Date: 13/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			



Report #	30	Total MD	3062	to	3062	m
Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m
Date	14/06/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			1115	m

BHA	BIT TYPE	JET SIZE					DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 12.25	No Bit	0	0	0	0	0	0.00 Riser Length	597 m	HOLE 0	PITS 0	PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS psi	
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 0 m							30 Conductor @	642 m	TOTAL CIRCULATING VOL. 0		PUMP MODEL National	% EFFICIENCY 97
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m					20 Surface @	1,399 m	RESERVE PITS 0		BBL / STK	STK / MIN	BOTTOMS UP 0 min	
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0	0	0	0	0	3,325 Intermediate @	1,942 m	STORAGE TANKS 0		BBL / MIN	GAL / MIN	TOTAL CIRC TIME min	
							Prod. or LNR @	m						

SAMPLE FROM				MW	10.4	API FL	<5	KCI	8.0
MUD TYPE				Hardne	<400	6 RPM	8-10	LGS	<5
TIME SAMPLE TAKEN				MUD COMMENTS					
FLOWLINE TEMPERATURE °F				Standing by for rig move.					
TOTAL MEASURED DEPTH (TMD) Metres									
WEIGHT ppg / SG									
FUNNEL VISCOSITY (sec / qt) API @ °F									
RHEOLOGY 600 : 300 RPM °F									
RHEOLOGY 200 : 100 RPM °F									
RHEOLOGY 6 : 3 RPM °F									
PLASTIC VISCOSITY cP @ °F									

[illegible]

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT								
Product	UnitSize	Start	Received	Used	Close	Type				Hours	OF	UF	GPM Feed	
						Desander	Cone Size	0	No.		0	0	0	0
						Desilter	Cone Size	0	No.		0	0	0	0
						Mud Cleaner				0	0	0	0	
						Centrifuge 1	MI SW FVS518							
						Centrifuge 2	MI SW FVS518							
						Degasser				0	SOLIDS ANALYSIS			
						Cuttings Dryer				0	HGS %		0.0	
						Shale Shaker #1	40/20/200/165				LGS %		0.0	
						Shale Shaker #2	40/20/200/165				Drilled Solids %		0.000	
						Shale Shaker #3	40/20/165/165				Salt %			
						Shale Shaker #4	40/20/165/165							

Rheochem Engineer: Kellie Jericho	Office: Perth	Telephone: 0894108214	Fax: 0894108214

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RHEOCHEM

DAILY MUD VOLUME ACCOUNT

Date: 14/06/2008

Report No 30

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		0	bbl
TOTAL DISPOSED:		0	bbl
Interval losses (bbl/ft/m):		13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 30
 Report Date: 14/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			

 WATER BASED MUD Daily Drilling Report	Report #	31	Total MD	3062	to	3062	m			
	Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m			
	Date	15/06/2008	Daily Depth Drilled	0 m						
	Spud Date	16/05/2008	Interval Depth Drilled	1115 m						
OPERATOR Santos Ltd			CONTRACTOR Diamond Offshore							
REPORT FOR Chris Roots/Nathan Peri			REPORT FOR Troy Williams/ Mike Praznik							
WELL NAME AND No. Jarver-1			FIELD T/33P		LOCATION Sorell Basin		STATE Tasmania			
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA			
BIT SIZE (") 12.25	No Bit	0 0 0 0 0 0	0.00 Riser Length 597 m		HOLE 0	PITS 0	PUMP SIZE 6 x 12 Inches			
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 0 m	30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 0		PUMP MODEL National			
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m	20 Surface @ 1,399 m		RESERVE PITS 0		% EFFICIENCY 97			
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0 0 m	3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		BBL / STK			
			Prod. or LNR @ m		BBL / MIN		STK / MIN			
					GAL / MIN		BOTTOMS UP			
							TOTAL CIRC TIME			
							psi			
							0 min			
							0 min			
							min			
MUD PROPERTIES										
MUD PROPERTY SPECIFICATIONS										
SAMPLE FROM				MW 10.4 API FL <5 KCI 8.0						
MUD TYPE				Hardne <400 6 RPM 8-10 LGS <5						
TIME SAMPLE TAKEN				MUD COMMENTS						
FLOWLINE TEMPERATURE °F				Standing by for move to the new location Pecten East 1.						
TOTAL MEASURED DEPTH (TMD) Metres				Planning to load Mud Chemicals in Portland.						
WEIGHT ppg / SG										
FUNNEL VISCOSITY (sec / qt) API @ °F										
RHEOLOGY 600 : 300 RPM °F										
RHEOLOGY 200 : 100 RPM °F										
RHEOLOGY 6 : 3 RPM °F										
PLASTIC VISCOSITY cP @ °F										
YIELD POINT (lb / 100FT) °F										
GEL STRENGTH (lb / 100FT) 10sec/10min/30min										
n K (lb/100 ft)										
API FILTRATE (cm / 30 min.)										
HPHT FILTRATE (cm / 30 min.) °F										
API : HPHT (Cake / 32nd in.)										
pH										
ALKALINITY MUD (Pm)										
ALKALINITY FILTRATE (Pf / Mf)										
CHLORIDE (mg / L)										
TOTAL HARDNESS AS CALCIUM (mg / L)										
SULPHITE (mg / L)										
PHPA (Calc ppb)										
GLYCOL CONTENT (% V/V)										
K+ (mg / L)										
KCI (% by Wt.)										
METHYLENE BLUE CAPACITY (ppb equiv/%)										
SOLIDS CONTENT (% by volume) Calc 0.00										
LIQUID CONTENT (% by volume) Calc 0.00										
SAND CONTENT (% by volume)										
				Water Source Supply Boats						
				MUD ACCOUNTING (BBLs) SUMMARY						
				FLUID BUILT		FLUID DISPOSED				
				Drill Water	0	S.C.E.	0			
				Chemical	0	Discharge	0			
				Seawater	0	Downhole	0			
				Other	0	Other	0			
				RECEIVED	0	LOST	0			
				TOTAL MUD ON RIG (bbls) 0						
PRODUCT USAGE				SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type	Hours	OF	UF	GPM Feed
						Desander	0	0	0	0
						Desilter	0	0	0	0
						Mud Cleaner	0	0	0	0
						Centrifuge 1	MI SW FVS518			
						Centrifuge 2	MI SW FVS518			
						Degasser	0	SOLIDS ANALYSIS		
						Cuttings Dryer	0	HGS %		0.0
						Shale Shaker #1	40/20/200/165	LGS %		0.0
						Shale Shaker #2	40/20/200/165	Drilled Solids %		0.000
						Shale Shaker #3	40/20/165/165	Salt %		
						Shale Shaker #4	40/20/165/165			
Rheochem Engineer: Kellie Jericho				Office: Perth		Telephone: 0894108214		Fax: 0894108214		

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the



RHEOCHEM

Date: 15/06/2008

Report No 31

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 31
 Report Date: 15/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			



Rheochem

WATER BASED MUD

Daily Drilling Report

Report #	32	Total MD	3062	to	3062	m
Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m
Date	16/06/2008	Daily Depth Drilled			0	m
Spud Date	16/05/2008	Interval Depth Drilled			1115	m

OPERATOR	Santos Ltd	CONTRACTOR	Diamond Offshore
REPORT FOR	Chris Roots/Nathan Peri	REPORT FOR	Troy Williams/ Mike Praznik
WELL NAME AND No.	Jarver-1	FIELD	T/33P
		LOCATION	Sorell Basin
		STATE	Tasmania

BHA	BIT TYPE	JET SIZE	DEPTHS/CASING	MUD VOLUME (BBL)	CIRCULATION DATA
BIT SIZE (") 12.25	No Bit	0 0 0 0 0 0	0.00 Riser Length 597 m	HOLE 0	PITS 0
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 0 m	30 Conductor @ 642 m	TOTAL CIRCULATING VOL. 0	PUMP SIZE 6 x 12 Inches
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m	20 Surface @ 1,399 m	RESERVE PITS 0	PUMP MODEL National
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0 0 m	3.325 Intermediate @ 1,942 m	STORAGE TANKS 0	% EFFICIENCY 97
			Prod. or LNR @ m		BBL / STK
					STK / MIN
					BOTTOMS UP
					TOTAL CIRC TIME

MUD PROPERTIES	MUD PROPERTY SPECIFICATIONS

SAMPLE FROM				MW	10.4	API FL	<5	KCI	8.0
MUD TYPE				Hardne	<400	6 RPM	8-10	LGS	<5
TIME SAMPLE TAKEN				MUD COMMENTS					
FLOWLINE TEMPERATURE	°F			On tow, standing by.					
TOTAL MEASURED DEPTH (TMD)	Metres								
WEIGHT	ppg / SG								
FUNNEL VISCOSITY (sec / qt) API @	°F								
RHEOLOGY 600 : 300 RPM	°F								
RHEOLOGY 200 : 100 RPM	°F								
RHEOLOGY 6 : 3 RPM	°F								
PLASTIC VISCOSITY cP @	°F								
YIELD POINT (lb / 100FT) ²	°F								
GEL STRENGTH (lb / 100FT) 10sec/10min/30min				OPERATIONAL COMMENTS					
n	K (lb/100 ft)								
API FILTRATE (cm / 30 min.)									
HPHT FILTRATE (cm / 30 min.)	°F								
API : HPHT (Cake / 32nd in.)									
pH									
ALKALINITY MUD (Pm)									
ALKALINITY FILTRATE (Pf / Mf)									
CHLORIDE (mg / L)									
TOTAL HARDNESS AS CALCIUM (mg / L)									
SULPHITE (mg / L)				Water Source					
PHPA (Calc ppb)				Supply Boats					
GLYCOL CONTENT (% V/V)				MUD ACCOUNTING (BBLs)					
K+ (mg / L)				SUMMARY					
KCI (% by Wt.)				FLUID BUILT					
METHYLENE BLUE CAPACITY (ppb equiv/%)				FLUID DISPOSED					
SOLIDS CONTENT (% by volume) Calc	0.00			Drill Water	0	S.C.E.	0	Start Vol	0
LIQUID CONTENT (% by volume) Calc	0.00			Chemical	0	Discharge	0	Boat Rcd	0
SAND CONTENT (% by volume)				Seawater	0	Downhole	0	Boat Bk	0
				Other	0	Other	0	Built	0
				RECEIVED	0	LOST	0	Lost sub	0
								Lost srf	0
				TOTAL MUD ON RIG (bbls)					
				0					

PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT					
Product	UnitSize	Start	Received	Used	Close	Type	Hours	OF	UF	GPM Feed	
						Desander	0	0	0	0	
						Desilter	0	0	0	0	
						Mud Cleaner	0	0	0	0	
						Centrifuge 1	MI SW FVS518				
						Centrifuge 2	MI SW FVS518				
						Degasser	0	SOLIDS ANALYSIS			
						Cuttings Dryer	0	HGS %		0.0	
						Shale Shaker #1	40/20/200/165	LGS %		0.0	
						Shale Shaker #2	40/20/200/165	Drilled Solids %		0.000	
						Shale Shaker #3	40/20/165/165	Salt %			
						Shale Shaker #4	40/20/165/165				

Rheochem Engineer:	Kellie Jericho	Office:	Perth	Telephone:	0894108214	Fax:	0894108214

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RHEOCHEM

Date: 16/06/2008

Report No 32

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 32
 Report Date: 16/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			

 Rheochem	WATER BASED MUD Daily Drilling Report		Report #	33	Total MD	3062	to	3062	m			
			Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m			
			Date	17/06/2008	Daily Depth Drilled	0			m			
			Spud Date	16/05/2008	Interval Depth Drilled	1115			m			
OPERATOR			Santos Ltd			CONTRACTOR			Diamond Offshore			
REPORT FOR			Peter Devine/Nathan Peri			REPORT FOR			Troy Williams/ Mike Praznik			
WELL NAME AND No.			Jarver-1			FIELD			T/33P			
						LOCATION			Sorell Basin			
						STATE			Tasmania			
BHA	BIT TYPE	JET SIZE		DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA				
BIT SIZE (")	No Bit	0 0 0 0 0 0		0.00 Riser Length 597 m		HOLE 0 PITS 0		PUMP SIZE 6 x 12 Inches		CIRCULATION PRESS psi		
DRILL PIPE SIZE (")	TYPE	LENGTH 0 m		30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 0		PUMP MODEL National		% EFFICIENCY 97		
DRILL PIPE SIZE (")	TYPE	LENGTH 0 m		20 Surface @ 1,399 m		RESERVE PITS 0		BBL / STK		STK / MIN		
DRILL COLLAR SIZE (")	HW	LENGTH 0 m		3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		BBL / MIN		GAL / MIN		
8	8.25	0 0 m		Prod. or LNR @ m						TOTAL CIRC TIME min		
MUD PROPERTIES						MUD PROPERTY SPECIFICATIONS						
SAMPLE FROM						MW 10.4 API FL <5 KCI 8.0						
MUD TYPE						Hardne <400 6 RPM 8-10 LGS <5						
TIME SAMPLE TAKEN						MUD COMMENTS						
FLOWLINE TEMPERATURE °F						Continue to stand by. Expect to take on chemicals tomorrow in Portland.						
TOTAL MEASURED DEPTH (TMD) Metres												
WEIGHT ppg / SG												
FUNNEL VISCOSITY (sec / qt) API @ °F												
RHEOLOGY 600 : 300 RPM °F												
RHEOLOGY 200 : 100 RPM °F												
RHEOLOGY 6 : 3 RPM °F												
PLASTIC VISCOSITY cP @ °F												
YIELD POINT (lb / 100FT) °F												
GEL STRENGTH (lb / 100FT) 10sec/10min/30min												
n K (lb/100 ft)												
API FILTRATE (cm / 30 min.)												
HPHT FILTRATE (cm / 30 min.) °F												
API : HPHT (Cake / 32nd in.)												
pH												
ALKALINITY MUD (Pm)												
ALKALINITY FILTRATE (Pf / Mf)												
CHLORIDE (mg / L)												
TOTAL HARDNESS AS CALCIUM (mg / L)												
SULPHITE (mg / L)												
PHPA (Calc ppb)												
GLYCOL CONTENT (% V/V)												
K+ (mg / L)												
KCI (% by Wt.)												
METHYLENE BLUE CAPACITY (ppb equiv/%)												
SOLIDS CONTENT (% by volume) Calc 0.00												
LIQUID CONTENT (% by volume) Calc 0.00												
SAND CONTENT (% by volume)												
						Water Source Supply Boats						
						MUD ACCOUNTING (BBLs)				SUMMARY		
						FLUID BUILT		FLUID DISPOSED		Start Vol	0	
						Drill Water	0	S.C.E.	0	Boat Rcd	0	
						Chemical	0	Discharge	0	Boat Bk	0	
						Seawater	0	Downhole	0	Built	0	
						Other	0	Other	0	Lost sub	0	
						RECEIVED	0	LOST	0	Lost srf	0	
						TOTAL MUD ON RIG (bbls) 0						
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type			Hours	OF	UF	GPM Feed
						Desander	Cone Size	0	No.	0	0	0
						Desilter	Cone Size	0	No.	0	0	0
						Mud Cleaner			0	0	0	0
						Centrifuge 1	MI SW FVS518					
						Centrifuge 2	MI SW FVS518					
						Degasser			0	SOLIDS ANALYSIS		
						Cuttings Dryer			0	HGS %		0.0
						Shale Shaker #1	40/20/200/165			LGS %		0.0
						Shale Shaker #2	40/20/200/165			Drilled Solids %		0.000
						Shale Shaker #3	40/20/165/165			Salt %		
						Shale Shaker #4	40/20/165/165					
Rheochem Engineer: Kellie Jericho						Office: Perth		Telephone: 0894108214		Fax: 0894108214		

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RHEOCHEM

Date: 17/06/2008

Report No 33

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR 0 hr		bbl
LOST CIRCULATION:			bbl
LOST BEHIND CASING/LEFT DOWNHOLE:			bbl
OTHER SUB-SURFACE LOSSES:			bbl
Sub-surface Losses Subtotal:		0	bbl
TOTAL DISPOSED:		0	bbl
Interval losses (bbl/ft/m):		13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 33
 Report Date: 17/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			

 WATER BASED MUD Daily Drilling Report	Report #	34	Total MD	3062	to	3062	m					
	Rig #	OCEAN PATRIOT	Total VD	3062	to	3062	m					
	Date	18/06/2008	Daily Depth Drilled	0 m								
	Spud Date	16/05/2008	Interval Depth Drilled	1115 m								
OPERATOR Santos Ltd			CONTRACTOR Diamond Offshore									
REPORT FOR Peter Devine/Nathan Peri			REPORT FOR Troy Williams/ Mike Praznik									
WELL NAME AND No. Jarver-1			FIELD T/33P		LOCATION Sorell Basin		STATE Tasmania					
BHA	BIT TYPE	JET SIZE	DEPTHS/CASING		MUD VOLUME (BBL)		CIRCULATION DATA					
BIT SIZE (") 12.25	No Bit	0 0 0 0 0 0	0.00 Riser Length 597 m		HOLE 0	PITS 0	PUMP SIZE 6 x 12 Inches					
DRILL PIPE SIZE (") 5	TYPE dp	LENGTH 0 m	30 Conductor @ 642 m		TOTAL CIRCULATING VOL. 0		PUMP MODEL National					
DRILL PIPE SIZE (") 6.53	TYPE HW	LENGTH 0 m	20 Surface @ 1,399 m		RESERVE PITS 0		% EFFICIENCY 97					
DRILL COLLAR SIZE (") 8	8.25	LENGTH 0 0 m	3.325 Intermediate @ 1,942 m		STORAGE TANKS 0		BOTTOMS UP 0 min					
			Prod. or LNR @ m		BBL / MIN		GAL / MIN					
							TOTAL CIRC TIME min					
MUD PROPERTIES				MUD PROPERTY SPECIFICATIONS								
SAMPLE FROM				MW 10.4 API FL <5 KCI 8.0								
MUD TYPE				Hardne <400 6 RPM 8-10 LGS <5								
TIME SAMPLE TAKEN				MUD COMMENTS								
FLOWLINE TEMPERATURE °F				Final report for Jarver 1. Handed over to Pecten East 1 at 0900 this morning. Reporting under Portland Operations until Pecten East 1 begins. Expect to take on board mud chemicals tomorrow.								
TOTAL MEASURED DEPTH (TMD) Metres												
WEIGHT ppg / SG												
FUNNEL VISCOSITY (sec / qt) API @ °F												
RHEOLOGY 600 : 300 RPM °F												
RHEOLOGY 200 : 100 RPM °F												
RHEOLOGY 6 : 3 RPM °F												
PLASTIC VISCOSITY cP @ °F												
YIELD POINT (lb / 100FT) °F												
GEL STRENGTH (lb / 100FT) 10sec/10min/30min												
n K (lb/100 ft)												
API FILTRATE (cm / 30 min.)												
HPHT FILTRATE (cm / 30 min.) °F												
API : HPHT (Cake / 32nd in.)												
pH												
ALKALINITY MUD (Pm)												
ALKALINITY FILTRATE (Pf / Mf)												
CHLORIDE (mg / L)												
TOTAL HARDNESS AS CALCIUM (mg / L)												
SULPHITE (mg / L)												
PHPA (Calc ppb)												
GLYCOL CONTENT (% V/V)												
K+ (mg / L)												
KCI (% by Wt.)												
METHYLENE BLUE CAPACITY (ppb equiv/%)												
SOLIDS CONTENT (% by volume) Calc 0.00												
LIQUID CONTENT (% by volume) Calc 0.00												
SAND CONTENT (% by volume)												
				Water Source Supply Boats								
				MUD ACCOUNTING (BBLs) SUMMARY								
				FLUID BUILT		FLUID DISPOSED						
				Drill Water	0	S.C.E.	0					
				Chemical	0	Discharge	0					
				Seawater	0	Downhole	0					
				Other	0	Other	0					
				RECEIVED	0	LOST	0					
				TOTAL MUD ON RIG (bbls) 0								
PRODUCT USAGE						SOLIDS CONTROL EQUIPMENT						
Product	UnitSize	Start	Received	Used	Close	Type	Cone Size	No.	Hours	OF	UF	GPM Feed
						Desander	0	No.	0	0	0	0
						Desilter	0	No.	0	0	0	0
						Mud Cleaner			0	0	0	0
						Centrifuge 1	MI SW FVS518					
						Centrifuge 2	MI SW FVS518					
						Degasser			0	SOLIDS ANALYSIS		
						Cuttings Dryer			0	HGS %	0.0	
						Shale Shaker #1	40/20/200/165					
						Shale Shaker #2	40/20/200/165					
						Shale Shaker #3	40/20/165/165					
						Shale Shaker #4	40/20/165/165					
Rheochem Engineer: Kellie Jericho F. Siregar						Office: Perth Telephone: 0894108214 Fax: 0894108214						

Any opinion and/or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation or warranty is made by ourselves or our agents as to its correctness or completeness, and no liability is assumed for any damages resulting from the



RHEOCHEM

Date: 18/06/2008

Report No 34

DAILY MUD VOLUME ACCOUNT

Well Name: Jarver-1

Operator: Santos Ltd

FLUID BUILT AND RECEIVED:

Premix drill water		bbl
Chemical Volume added		bbl
Sump recycled water		bbl
Seawater		bbl
Volume Received on Rig		bbl
Received Other		bbl
TOTAL ADDED:	0	bbl

LMP/BOAT TRANSFERS

TOTAL BACKLOADED FROM LMP:	0
TOTAL RECEIVED FROM LMP:	0

FLUID DISPOSED:

LOSSES ATTRIBUTED TO SHAKERS:		bbl
LOSSES TO CENTRIFUGE		bbl
LOSSES TO DESILT/MUD CLEANER:		bbl
LOSSES TO DESANDER:		bbl
LOSSES TO TRIPPING:		bbl
DISCHARGED:		bbl
OTHER SURFACE LOSSES:		bbl
Surface Losses Subtotal:	0	bbl

SEEPAGE LOSSES:	0 BBL/HR FOR	0 hr		bbl
LOST CIRCULATION:				bbl
LOST BEHIND CASING/LEFT DOWNHOLE:				bbl
OTHER SUB-SURFACE LOSSES:				bbl
Sub-surface Losses Subtotal:			0	bbl
TOTAL DISPOSED:			0	bbl
Interval losses (bbl/ft/m):			13	

TANK STORAGE VOLUMES:

Tank Name	Tank Status	Tank Volumes (bbls)			Comments
		Current	Capacity	MW (ppg)	
1	Active	0	230	0	
2	Reserve	0	342	0	
3a	Reserve	0	243	0	
3b	Reserve	0	243	0	
4	Reserve	0	508	0	
5	Reserve	0	508	0	
Slug Pit	Reserve	0	79	0	
Trip Tank	Reserve	0	70	0	
Sand Trap	Reserve	0	54	0	
Settling Pits	Reserve	0	81	0	
Surface Lines	Reserve	0	80	0	

VOLUME SUMMARY:

	+	-
Starting Volume:		
Current Tank Volume:		
Total Hole Volume(inc riser):		
Other Volume In Hole:	1196	
Total Riser Volume:		
Total Received:		
Total Storage:		
Total Reserve:		
Total Disposed:		
Total Backloaded to LMP:		
Total Received from LMP:		
TOTAL MUD AT RIGSITE		bbls



Daily Inventory

Well: Jarver-1
 Report No: 34
 Report Date: 18/06/2008

Product	Unit Size	Start Amnt	Daily Used	Cumul Used	Daily Rec'd	Cumul Rec'd	Daily B'Load	Cumul B'Load	Final Stock
KCl / Glycol / Premix_*RIG*	0 bbl			2,418		2,418			
Barite (ex ANZON)	1000 Kg			103		103			
Barite (sacked)	25 Kg Sack	495		385		880			495
Barite FOB (Portland)	1000 Kg	130		33		208		45	130
Bentonite FOB (Melbourne)	1000 Kg	43		37		106		26	43
Bentonite FOB (Melbourne) ST	1000 Kg			28		28			
Bentonite FOB (Portland)	1000 Kg	28				28			28
Bentontie (ex ANZON)	1000 Kg			16		16			
Calcium Chloride (77%)	25 Kg	80				80			80
Caustic Soda	25 Kg Drum	32				32			32
Caustic Soda (ex ANZON)	25 Kg	5		5		10			5
Citric Acid	25 Kg Sack			80		80			
Defoam-A	25 Ltr Drum	32				32			32
Drispac SL	25 Kg Sack	163		157		320			163
Flowzan	25 Kg Sack	123		197		320			123
Fracseal	25 lb Sack	140				140			140
Guar Gum	25 Kg Sack	21		99		120			21
Idcide-20	20 Ltr Drum	6		26		32			6
JK-261 LV	25 Kg	184		56		240			184
KCl (sacked)	25 Kg Sack	480		320		800			480
KCl / NaCl / Glycol Premix_*RIG*	0 bbl			760		760			
MEG	220 Kg	8				8			8
Nutplug	25 Kg Sack	40				40			40
Omyacarb 20	25 Kg	96				96			96
Quickseal (med)	18 Kg Sack	50				50			50
Sand Seal (fine)	25 Kg Sack	75				75			75
SAPP	25 Kg Sack	40				40			40
Soda Ash	25 Kg Sack	48				48			48
Soda Ash (ex ANZON)	25 Kg			6		6			
Sodium Bicarbonate	25 Kg Sack	26		22		48			26
Sodium Bicarbonate (ex ANZON)	25 Kg			14		14			
Sodium Sulphite	25 Kg			35		35			

Operator : Santos
Well : Jarver 1
Rig : Ocean Patriot
Start : 13th March 2008
Spud : 16th May 2008

10. DRILLING FLUID PROGRAMME

		MUD PROGRAM JARVER-1										Prepared by : Paul Baker Approved by: Patrick Tomkins		Date : 9-May-08 Rev. No: 6		Santos														
36.0 Section: Seawater / Hi Vis Sweeps												PRODUCTS		Concentrations lbs/bbl		VOLUMES														
Depth meters	MW ppg	Funnel Visc. sec.	6 rpm	pH	Gel 10s lb/100sqft	Gel 10m lb/100sqft						TYPE	Unit	Size	Sweeps	Displ vol	Tot Unit		bbl											
597												Bentonite	MT	1	35.0	35.0	17	DISPL. VOL. x 1.5	366											
656	alap	>100	> 40	9 - 10	>15	>40						Caustic Soda	kg	25	0.2	0.20	4													
												Soda Ash	kg	25	0.2	0.2	4													
												Barite	kg	25	0.0	0.0	480													
												Calcium Chloride	kg	25	0.0	0.0	80	SWEEPS	650											
COMMENTS: Prehydrated bentonite (non-flocculated) will be used for Hi-vis sweeps. Before any Prehydrated bentonite is mixed test the water source and record its properties on the first daily mud report. Drill the first single with high viscosity pre-hydrated bentonite (+/- 35 ppb) prior to switching to seawater. Drill with seawater & Hi-vis Sweeps (riserless). Pump 50 bbl Hi-vis sweeps mid stand & 100 bbl prior to connections. This sweep regime can be adjusted to suit hole conditions / ROP. Guar Gum will be held in contingency and can be used for Hi-vis sweeps. Consideration to using Guar Gum for mid stand sweeps should be made if there are any time restraints on PHG yielding or quantities of drill water are restricted. At TD sweep the hole clean with a 200 bbl Hi-vis Pill & then over-displace (1.5 x open hole volume) the hole to Hi-vis prehydrated bentonite (non-flocculated) prior to pulling out for any wiper trip or to run casing. If a wiper trip is required, the displacement must be repeated Rheochem Engineers should obtain a copy and make themselves familiar with the RHEOCHEM RISERLESS DRILLING PROCEDURES & GUIDELINES.																														
																						TOT. VOL.		1016						
																						NEW MUD		1016						
																						Max Angle, deg.		0						
																						Dilut. fac		n/a						
26.0 Section: Seawater / Hi Vis Sweeps												PRODUCTS		Concentrations lbs/bbl		VOLUMES														
Depth meters	MW ppg	Funnel Visc. sec.	6 rpm	pH	Gel 10s lb/100sqft	Gel 10m lb/100sqft						TYPE	Unit	Size	New	Maint	Tot Unit		bbl											
656												Barite	MT	1	82.1	0.0	8	DISPL. VOL. x 1.5	2456											
1405	alap	>100	> 40	9 - 10	>15	>40						Caustic Soda	kg	25	0.1	0.1	14	KILL MUD	200											
												Soda Ash	kg	25	0.1	0.0	14	CASING	124											
												Bentonite	MT	1	35.0	35.0	120													
												Quickseal	kg	18.18	17.0	0.0	19	SWEEPS & KILL MUD	4925											
												Nutplug	kg	25	17.0	0.1	19	HOLE TOT	2580											
COMMENTS: Prehydrated bentonite (non-flocculated) will be used with Guar Gum held in contingency for Hi-vis Sweeps if required. Guar Gum will be held in contingency and can be used for Hi-vis sweeps. Consideration to using Guar Gum for mid stand sweeps should be made if there are any time restraints on PHG yielding or quantities of drill water are restricted. Potassium Chloride can be added to the Guar Gum sweeps to provide some inhibition if any reactive clays are encountered whilst drilling with seawater & sweeps. Drill with seawater & Hi-vis Sweeps (riserless). Pump 75 bbl HiVis sweeps mid stand & 100 bbl prior to connections. This sweep regime can be adjusted to suit hole conditions / ROP. A contingency LCM Pill should be prepared in the slug pit at +50ppb using Quickseal Med / Nutplug / Omycarb 20. If this pill has not been used it must be pumped as part of the final displacement volume at TD. This allows the slug pit to be used for the KCl pill. At TD sweep the hole clean with a 200 bbl Hi-vis Pill weighted with Barite to 10.0ppg (this will be used as Kill Mud and must be prepared prior to drilling out of the shoe). Over-displace (1.5 x open hole volume) the hole to Hi-vis prehydrated bentonite (non-flocculated) and spot 60 bbl weighted KCl pill on bottom (maximum useable volume of slug pit) prior to pulling out. Due to the large displacement volume it may be required to dilute PHG whilst displacing to achieve 1.5 times hole displacement or consideration should be given to a 2 stage displacement. If a wiper trip is required, the displacement must be repeated.												Omycarb 20	kg	25	17.0	0.0	19	TOT. VOL.	7505											
																						RECEIVED		0						
																						NEW MUD		7505						
																						MUD LEFT		2580						
																						Max Angle, deg.		0						
																Dilut. fac		1.30												
17.1/2 Section: 8% KCl / PHPA / Glycol												PRODUCTS		Concentrations lbs/bbl		VOLUMES														
Depth meters	MW ppg	YP lb/100sqft	PV cP	Gels lb/100sqft	6 rpm	pH	API FL ml	Ca ++ mg/l	KCl % wt	PHPA ppb	LGS % vol	MBT ppb	TYPE	Unit	Size	New	Maint	Tot Units		bbl										
1405													Barite	MT	1	0.0	34.5	55	SURFACE	500										
2005	8.9 - 9.5	6 rpm dependent	alap weight	low and flat	13 - 16	8.7 - 9.2	< 8 ml	< 400	8	1.0-1.5	< 5	< 12	Caustic Soda	kg	25	0.1	0.1	13	RISER	723										
													Sodium Bicarbonate	kg	25	0.1	0.1	13	CASING	895										
													Sodium Sulphate	kg	25	0.1	0.1	13	OPEN HOLE	591										
													KCl	MT	1	30.0	2.0	51	DILUTION	787										
													KCl	kg	25	2.0	2.0	254												
COMMENTS: A concentrated KCL/GLYCOL Premix will be mixed in Portland and will be shipped to the rig for the start of the section. Drillwater will be used to cut back the brine at a 1:1 ratio (brine:water), however seawater can be used as a contingency should drillwater requirements become a problem. Drill out the shoe with seawater & pump a 50 bbl Hi-vis sweep ahead of displacing the hole to the new mud to avoid possible cement contamination. Mud weight will initially be ~8.9ppg, but should be increased as instructed by the Santos drilling supervisors as pore pressures and/or well conditions dictate. Mud weight at TD should be 9.5ppg minimum. Cuttings at the shakers should be monitored for signs of wellbore instability. Shakers must be dressed with the finest screens as possible which will be dictated by flowrates and ability to shear PHPA on the rig. Claystone reactivity will be controlled with 3% Glychem MC, KCl inhibition and PHPA cuttings encapsulation. KCL concentration at displacement should be a minimum 8% and must be maintained at this level. However this concentration can be increased if necessary through addition of brine or sacked material. Hole cleaning criteria will be based on the 6 rpm readings; maintaining between 13-16 dial units through the addition of premixed Flowzan. The API Fluid Loss for this section should be maintained below 8 ml with Drispac SL. Down hole losses should be closely monitored and any losses in excess of 2 bbls/hr are to be cured by direct additions or sweeps containing a combination of Fracseal/Quickseal/Sandseal and not allowed to heal naturally. Consult Santos DDR and MWD Operators prior to any LCM additions. Maintain the Low Gravity Solids below 5% and the MBT below 12 lb/bbl at all times (this may require whole mud dilution).												Drispac SL	kg	25	1.0	0.2	76	HOLE TOT	2208											
												JK 261 LV	kg	25	1.1	0.2	83	TOT. VOL.	3495											
												Flowzan	kg	25	1.3	0.2	96	RECEIVED	0											
												Idcide 20	lt	20	0.1	0.1	16	NEW MUD	3495											
												Glychem MC	kg	220	3.0	0.1	93	MUD LEFT	2708											
600	9.5 - 11.9	6 rpm dependent	alap weight	low and flat	11-13	8.7 - 9.2	< 5 ml	< 400	8	1.0-1.5	< 5	< 12	Salt	MT	1	46.4		16	Max Angle, deg.	0										
																			Concentrate (bbls)		50									
																			Dilut. fac		1.30									
													12.1/4 Section: 8% KCl / PHPA / Glycol												PRODUCTS		Concentrations lbs/bbl		VOLUMES	
													Depth meters	MW ppg	YP lb/100sqft	PV cP	Gels lb/100sqft	6 rpm	pH	API FL ml	Ca ++ mg/l	KCl % wt	PHPA ppb	LGS % vol	MBT ppb	TYPE	Unit	Size	New	Maint
2005													Barite	MT	1	34.5	85.1	185	SURFACE	500										
3400	9.5 - 11.9	6 rpm dependent	alap weight	low and flat	11-13	8.7 - 9.2	< 5 ml	< 400	8	1.0-1.5	< 5	< 12	Caustic Soda	kg	25	0.2	0.1	12	RISER	723										
													Sodium Bicarbonate	kg	25	0.1	0.1	10	CASING	699										
													Sodium Sulphate	kg	25	0.1	0.1	10	OPEN HOLE	670										
													KCl	MT	1	30.0	2.0	26	DILUTION	1540										
													KCl	kg	25	2.0	2.0	210												
COMMENTS: If the mud system from the previous section is relatively clean (ie LGS% <5%) it may be used for this section. A concentrated KCL/GLYCOL Premix will be mixed in Portland and will be shipped to the rig for the start of the section. Drillwater will be used to cut back the brine, however seawater can be used as a contingency should drillwater requirements become a problem. The mud weight will be 9.5ppg for the start of this section and should be altered as instructed by the Santos drilling supervisors, as pore pressures and/or well conditions dictate. Always maintain sufficient stock of Barite onboard / infield to increase system to potentially 11.9ppg. Cuttings at the shakers should be monitored for signs of wellbore instability. Claystone reactivity will be controlled with 3% Glychem MC, KCl inhibition and PHPA cuttings encapsulation. KCL concentration should be maintained at 8%. PHPA additions are to be stopped and allowed to deplete naturally approximately 150 m before penetrating the Lower Belfast Fm (+2902 m RT) Hole cleaning criteria will be based on the 6 rpm readings; maintaining between 11 - 13 dial units through the addition of premixed Flowzan. The API Fluid Loss for this section should be tightened to < 5 ml with Drispac SL. Down hole losses should be closely monitored and any losses in excess of 2 bbls/hr are to be cured by direct additions or sweeps containing a combination of Fracseal/Quickseal/Sandseal and not allowed to heal naturally. Consult Santos DDR and MWD Operators prior to any LCM additions. Due to the low temperature of the water column at the mudline there is the possibility of Gas Hydrate formation should gas be encountered. If the well has to be shut in the kill lines should be circulated to a KCI/MEG concentrate (19%KCl 12% MEG). The same fluid should be spotted across the BOP stack whenever the wellbore is likely to be static for more than 12 hrs. If possible & if pit management allows a small pit should be set aside to mix this fluid if required. A separate procedure for mixing MEG fluid is included in the Rheochem full drilling fluids program. Emphasis should also be placed on minimising any extended periods without circulation, especially if formation gas is detected at surface. NOTE: The Barite usage figure has been calculated for weighing the system to 10.9ppg. There is the potential that the weight might be increased to 11.9ppg. For this purpose a contingent of Barite has been put in place.												Drispac SL	kg	25	1.3	0.5	76	HOLE TOT	2091											
												JK 261 LV	kg	25	1.0	0.6	75	TOT. VOL.	4131											
												Flowzan	kg	25	1.2	0.2	51	RECEIVED	2500											
												Idcide 20	lt	20	0.1	0.2	22	NEW MUD	1631											
												Glychem MC	kg	220	3	0.1	27	MUD LEFT	2591											
1395													KCl (Concentrate)	kg	25	0.0	77.5	141	Max Angle, deg.	0										
													MEG (Concentrate)	lt	208	-	12	8												
													CONTINGENCY						Concentrate (bbls)		100									
													Barite	MT	1			126												
																			D ilut. fac		1.10									

SECTION 10 : CASING & CEMENTING SUMMARY

Schlumberger

Cementing End of Well Report

Jarver-1



Rig : Ocean Patriot
Well Type : Exploration
Customer : Santos Ltd
Prepared by : 1. Yael Bernasconi
e-mail : YBernasconi@perth.oilfield.slb.com
Tel : (61) 410 221 950
Fax : (61) - 8 - 9429 4642
2. Lam Nguyen Hoang Thao
e-mail : Hnguyen14@perth.oilfield.slb.com
Tel : (61) 406 381 146
Fax : (61) - 8 - 9429 4642

Date : 19 - 06 - 2008

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Well Summary

Client Representatives		
No	Name	Position
1	Chris Roots	Drilling Supervisor
2	Nathan Peri	Drilling Supervisor
3	Peter Devine	Drilling Supervisor
4	Rohan Richardson	Drilling Supervisor

Dowell Representatives		
No	Name	Position
1	Edgardo Llagas	Field Specialist
2	Mark Dawson	Equipment Operator
3	Manny Rafallo	Field Specialist
4	Honorio Macatangay	Equipment Operator
5	Lam Nguyen Hoang Thao	Field Engineer

Well Data						
Open Hole		Casing			Temperature	
Size	MD	Size	Weight	MD	BHST	BHCT
(in)	(m)	(in)	(lb/ft)	(m)	(degC)	(degC)
36	645	30	310	643	12	16
26	1407	20	133	1402	44	31
17 ½	1947	13 ¾	68	1942	68	36
12 ¼	3060	Plug 1a			115	75
12 ¼	2912	Plug 1b			115	75
12 ¼	1990	Plug 2			71	41
13 ¾	700	Plug 3			27	27

Cement Job Summary

Date	Job Type	Material/Fluid Used			Cement Slurry		Displacement		Spacer		Cement Head	Plugs
		Material	Conc.	Quantity	Density	Volume	Fluid	Volume	Type	Volume		
17-May-08	30" Conductor	G Cement D047 D186	- 0.03 gal/sk 0.1 gal/sk	953 sks 30 gal 108 gal	15.8ppg	202bbls	SW	53 bbls	SW	80 bbl	None	None
22-May-08	20" Casing	G Cement D047 D075 D081	- 0.03gal/sk 0.5gal/sk 0.05gal/sk	1345 sks 40 gal 689 gal 67 gal	Lead-12 ppg	615 bbls	SW	40 bbls	SW	85 bbl	DeepSea EXPRES*	1 Btm 1 Top
		HTB Cement D047 D168 D080 D081	- 0.03gal/sk 0.2gal/sk 0.06gal/sk 0.025gal/sk	1137 sks 35 gal 250 gal 78 gal 28 gal	Tail -15.8ppg	310 bbls						
31-May-08	13 3/8" Casing	G Cement D047 D075 D081	- 0.03gal/sk 0.420gal/sk 0.04gal/sk	Total chemical 816 sks 45 gal 358 gal 48 gal	Lead-12.5 ppg	308 bbls	SW	43 bbls	SW	55 bbl	DeepSea EXPRES*	1 Btm 1 Top
		G Cement D047 D193 D145A D081	- 0.03gal/sk 0.4gal/sk 0.08gal/sk 0.03gal/sk	529 sks 225 gal 57 gal	Tail -15.8ppg	112 bbls						

Date	Job Type	Material/Fluid Used			Cement Slurry		Displacement		Spacer		Cement Head	Plugs
		Material	Conc.	Quantity	Density	Volume	Fluid	Volume	Type	Volume		
06-Jun-08	Cement Plug 1a	HTB Cement D047 D193 D145A D110	- 0.03 gal/sk 0.4 gal/sk 0.08 gal/sk 0.02 gal/sk	294 sks 10 gal 116 gal 25 gal 6 gal	15.8ppg	80bbbls	DW WBM	2 bbbls 162 bbl	DW	15 bbl	None	None
07-Jun-08	Cement Plug 1b	HTB Cement D047 D193 D145A D110	- 0.03 gal/sk 0.4 gal/sk 0.08 gal/sk 0.02 gal/sk	294 sks 10 gal 118 gal 25 gal 6 gal	15.8ppg	80bbbls	DW WBM	2 bbbls 152 bbl	DW	15 bbl	None	None
07-Jun-08	Cement Plug 2	G Cement D047 D193 D145A	- 0.03 gal/sk 0.2 gal/sk 0.03 gal/sk	375 sks 12 gal 90 gal 27 gal	15.8ppg	78bbbls	DW WBM	2 bbbls 100 bbl	DW	15 bbl	None	None
08-Jun-08	Cement Plug 3	HTB Cement D047	- 0.03 gal/sk	126 sks 5 gal	15.8ppg	34bbbls	DW SW	1 bbbls 28 bbl	DW	10 bbl	None	None

Chemical Consumption

Chemical	Unit	Chemical Usage				
		30" Conductor	20" Casing	13 3/8" Casing	Plug 1a, 1b, 2 & 3	Total
Class G cement	MT	41	57	58	16	172
HTB cement			65		41	106
D047 Antifoam	gals	30	75	45	37	187
D186 Low T Set Enhancer	gals	108				108
D075 Extender	gals		689	358		1047
D080 Dispersant	gals		78			78
D081 Retarder	gals		95	48		143
D168 UNIFLAC	gals		250			250
D145A Dispersant	gals			57	77	134
D193 Fluid Loss	gals			225	324	549
D110 Retarder	gals				12	12
Fluorescein Dye	kg	1				1
20" DSE Top Plug	ea		1			1
20" DSE Bottom Plug	ea		1			1
13 3/8" DSE Top Plug	ea			1		1
13 3/8" DSE Bottom Plug	ea			1		1

END OF WELL REPORT
Jarver - 1
JOB DESIGN & EXECUTION SUMMARY

1. 36" HOLE / 30" CASING

1.1 Drilling/Casing:

The 36" hole was drilled to a total depth of 645 m with gel sweeps. 30" Casing was run and set at 643 m with a 5" DP inner string.

1.2 Design:

Single 15.8 ppg Class G cement tail slurry was planned to provide structural integrity for wellhead and BOP; and provide 30" shoe integrity for continue drilling operations:

Tail Slurry

G Cement: 41 MT
Seawater: 5.37 gal/sk
D047 (antifoam): 0.03 gal/sk
Density – 15.8 ppg
Yield – 1.19 cuft/sk
Slurry Volume – 202 bbls
TOC - Seabed

1.3 Execution:

Job Date: 17/05/08
Cementing job time started: 17:29 hr:mn

Procedure:

1. Pre job safety meeting
2. Pumped 5bbls SW ahead to flush the line
3. Pressure tested lines to 1000 psi – good pressure test
4. Mixed and pumped 202 bbl of Tail slurry @ 15.8 ppg (Mix Fluid =122 bbl)
5. Displaced with 53bbl SW
6. Bleed off, checked returns, no flowback observed

1.4 Evaluation:

At 07:00 am on May 18th, 2008 tagged cement at 642mRT (LAT). Good cement found. The job was executed safely as per program

2. 26" HOLE / 20" CASING

2.1 Drilling/Casing:

A 26" hole was drilled to a total depth of 1407m. 20" casing was run and set at 1402m.
DeepSea EXPRES cement head was used to release top and bottom plugs for this string.

2.2 Design:

15.8 ppg Tail and 12 ppg Lead slurry were designed to provide structural support for BOP and 20" shoe integrity to allow good LOT

Tail Slurry

HTB Cement: 65 MT
Drill water: 6.115 gal/sk
D047 (antifoam): 0.03 gal/sk
D168 (UNIFLAC): 0.2 gal/sk
D080 (dispersant): 0.06 gal/sk
D081 (retarder): 0.025 gal/sk
Density – 15.8 ppg
Yield – 1.53 cuft/sk
Slurry Volume – 310 bbls

Lead Slurry

G Cement: 57 MT
Sea water: 15.715 gal/sk
D047 (antifoam): 0.03 gal/sk
D075 (extender): 0.5 gal/sk
D081 (retarder): 0.05 gal/sk
Density – 12 ppg
Yield – 2.57 cuft/sk
Slurry Volume – 615 bbls

2.3 Execution:

Job Date: 22/05/08
Cementing job time started: 14:23 hr

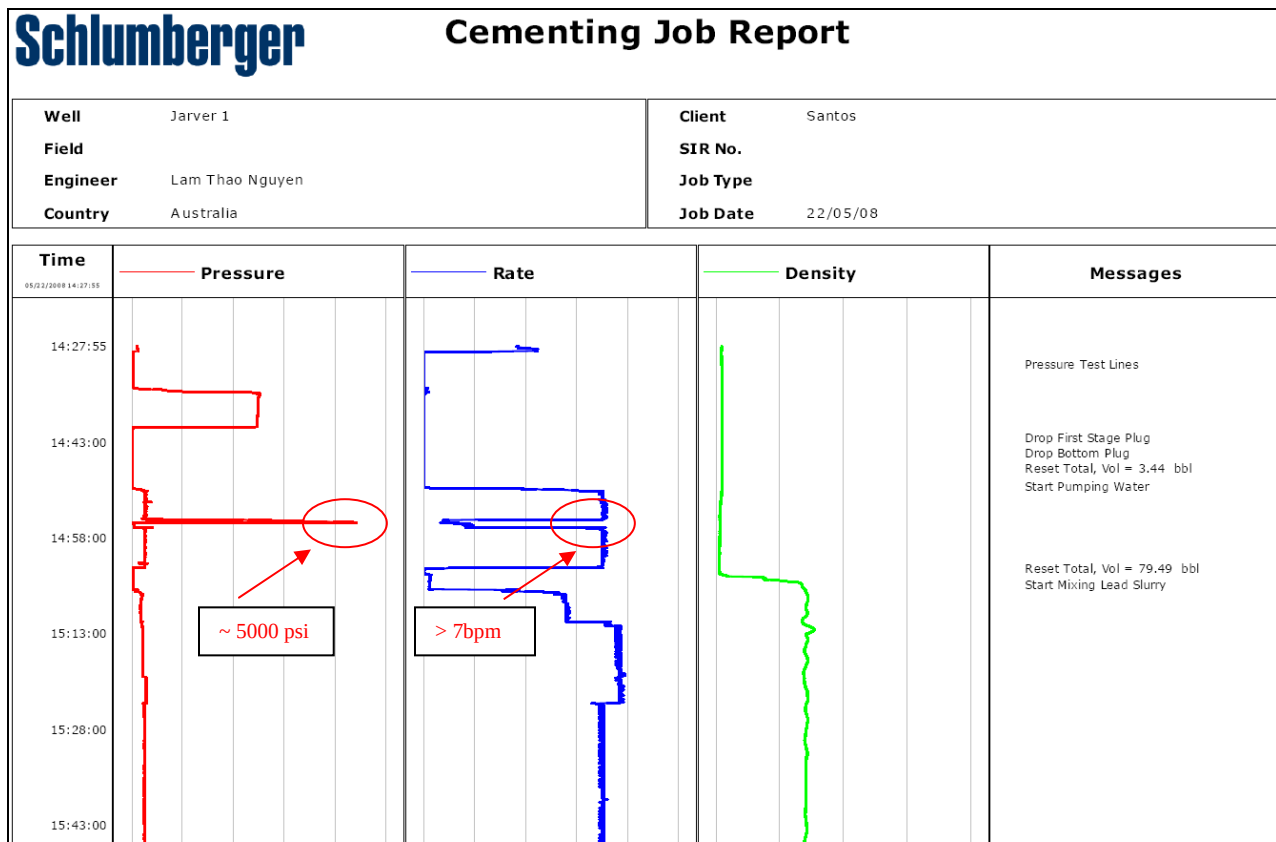
Procedure:

1. Pre job safety meeting
2. Pumped 5bbls SW ahead to flush the line
3. Pressure tested lines to 3000 psi – good pressure test
4. Drop the bottom dart
5. Pump 80 bbl of Sea water and confirm shearing of bottom plug after 33 bbl
6. Mixed and pumped 615 bbl of Lead slurry @ 12 ppg (Mix Fluid =504 bbl)
7. Mixed and pumped 310 bbl of Tail slurry @ 15.8 ppg (Mix Fluid =174 bbl)
8. Drop top plug
9. Displaced with 40bbl of Sea Water
10. Switch over to rig pumps to continue displacement and bump the plug

2.4 Evaluation:

Cement job review:

Cement job was executed without any issue. However, there was concern related to the plug shear pressure. This pressure was estimated at a normal reading was about 3000 psi before the job. During job, bottom dart was dropped from SDL, 33 bbls (calculate drillpipe volume) of sea water was pumped to shear bottom plug, pressure went up to 5000 psi. Job supervisor pumped further 47bbls to assess the situation, pressure drop down. Cement job was commenced. Job chart is below:



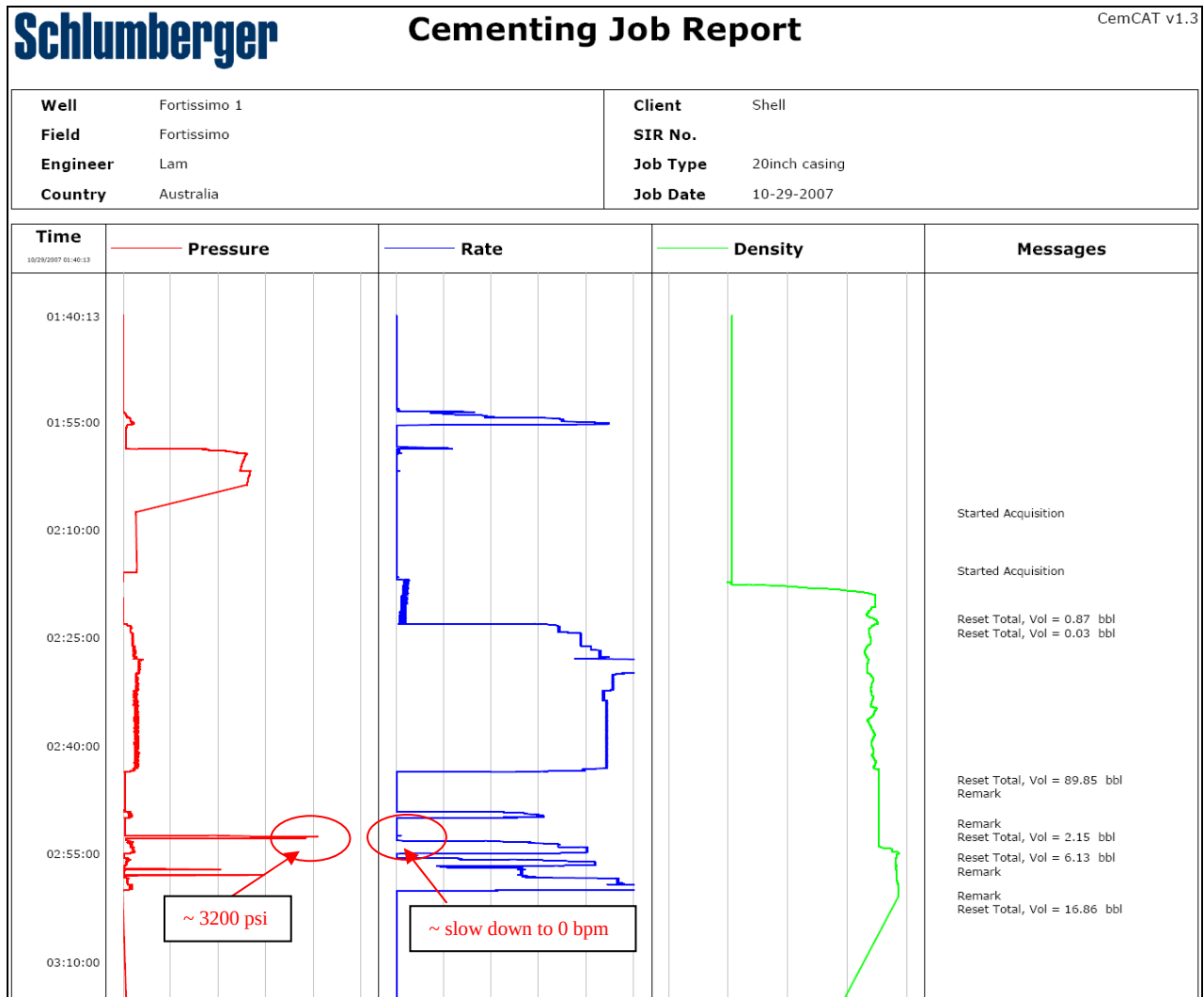
SLB conducted investigations as followings:

a) 20" cementing job reviews:

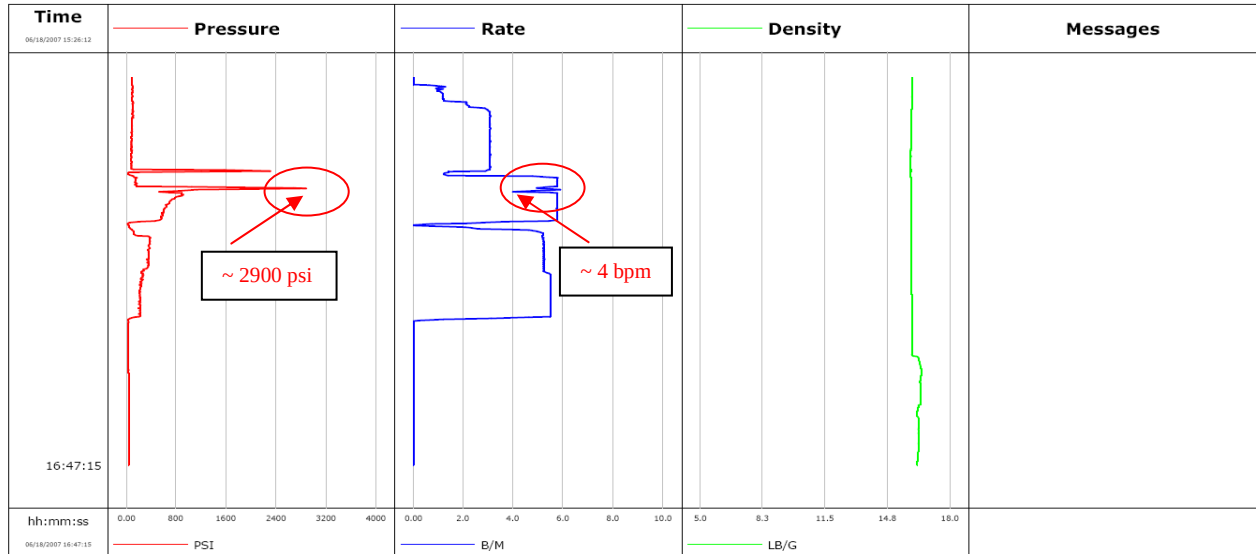
- 20" DSE plugs has been used in 3 wells for Shell before Jarver:

- ❖ Fossetmaker
- ❖ Tocatta
- ❖ Fortissimo

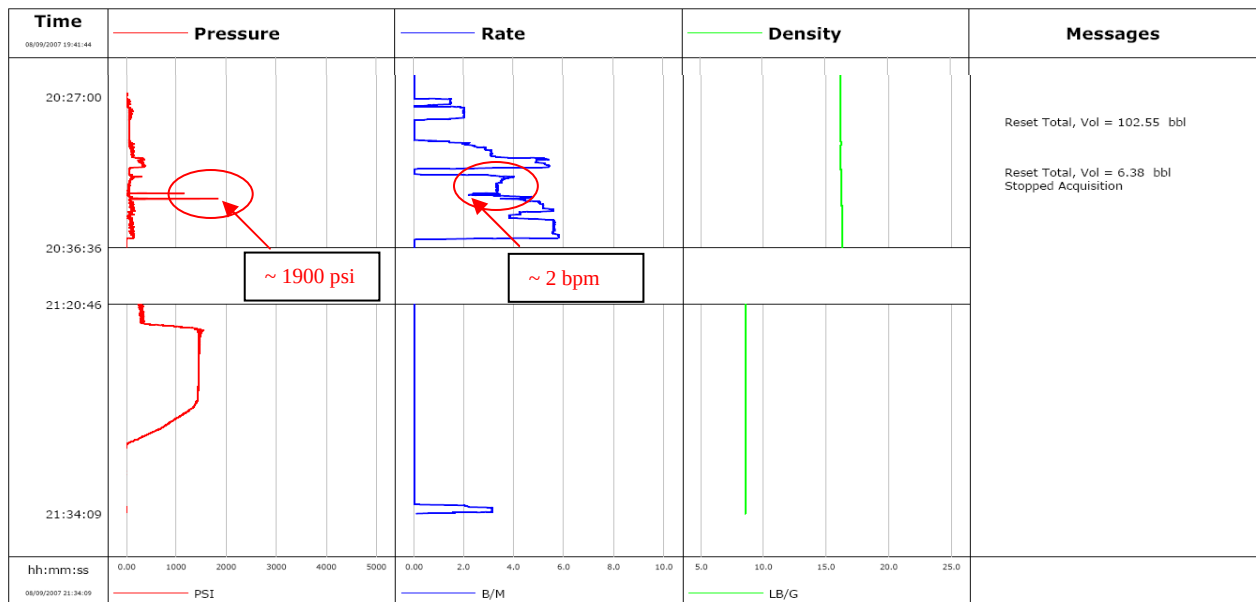
Compare pumping parameter with these wells are made as followings:



Well	Tocatta-1	Client	Shell
Field		SIR No.	
Engineer	David Giam	Job Type	20" Casing Cement Job
Country	Australia	Job Date	06-18-2007



Well	Fossetmaker1	Client	Shell Development Australia
Field		SIR No.	
Engineer	FAIZAL	Job Type	20" Casing Cementation
Country	Australia	Job Date	08-09-2007



b) Schlumberger pumping procedure for DSE cement head:

Schlumberger
Reservoir Development, WGS

DeepSea EXPRES[®] Unit



DSE Unit: OPERATOR:
RIG: CLIENT:
JOB: DATE:

Job Checklist

UK	Action	Comments
	Drift gage (rabbit)	returned to DSE operator
	Power pack	connected to dart launcher
	Rotary valve	"Mud Circulation" position
	Mud circulation	< 22 BPM (3500 LPM) (*see note)
	Wash/Spacer	< 15 BPM (2300 LPM) (*see note)
	Release Bottom Dart	Stop Pumping
	Rotary valve	"Bottom 1" position
		Check lower dart valve rotation
	Start slurry (DP volume)	Maxi @ 4 BPM (600 LPM)
		Maxi @ 6 BPM if plug size is 16" to 20"
		This modification to prevent dart stop before travel all the way down dart chamber
	Release BOT Plug	Do not exceed 6000psi
	Continue Slurry	< 15 BPM (2300 LPM) (*see note)
	Release Top Dart	Stop Pumping
	Rotary valve	"Top" position
		Check upper dart valve rotation
	Start displace (DP volume)	Maxi @ 4 BPM (600 LPM)
	Release TOP Plug	2000 to 3000psi
	Rotary valve	"Displacement" position (for 10 min)
		Check rotation of both valves
	Casing displacement	< 15 BPM (2300 LPM) (* see note)
	Rotary valve	Back to "Top" position, wait 5 min then return to "Displacement" position
		Check rotation of both valves
	Bump TOP Plug	Limit pressure to lower rating: plug or float collar

c) Summary & recommendations:

- DSE manual states clearly max rate to release bottom plug is 4bpm – for common size (13 3/8", 10 3/4", 9 5/8"), 6bpm – for special size (16", 20").
- 20" job in Jarver has exceed pump rate recommendation, cause pressure increase unexpectedly.
- Compare with all the past jobs done for Shell, it obviously confirmed pump rate in Jarver was much higher, and so was pressure.
- Way forward to prevent this from happen again: to ensure proper discussion with field personnel, agree on pump rate and expected pressure. Abort procedure to be discussed prior to job start.
- In case pressure exceeds expected value, abort procedure to be followed.

Drill out plugs review:

At 04:00 am on May 27th, 2008

Tagged cement at 1381mRT (LAT) with 4.5 t. Good cement found. Circulated and displaced the well with KCl – Glycol mud.

08:00 am May 27th, 2008

Drilled out top and bottom cement plugs from 1381mRT to 1382mRT (float collar) with following parameters:

- ❖ WOB : 7/14 T
- ❖ 3407 L/min
- ❖ 2200 psi
- ❖ TQ : 4/7 kNm
- ❖ RPM : 80-100

- 20:00 May 27th, 2008

Continue drill out plugs & sharkbite from 1382 to 1383. Observe sharkbite & rubber debris come back to shaker

- 24:00 May 27th, 2008

Pull BHA to surface. 17 ½" bit was found broken (original bit condition – before start drilling – was not provided).

Comments from Santos : bit was balled up with float debris preventing the cones from rotating which caused severe damage to the bit

- 02:00 am May 28th, 2008

Run in with new bit.

Tag bottom and drill out shoe track successfully.

Comments from Santos:

- The 20" shoe track was assembled by Begleys
- The upcoming 13 3/8" and contingent 9 5/8" casing shoe tracks were assembled by Gearhart. There is a different installation process for the 13 3/8" & 9 5/8" casing as compared to the 20" due to the fact that the 20" float equipment was weld on.

Comments from Schlumberger:

- The core material of the 16", 18-3/8" and 20" plugs is made of nylon 8. The nylon 8 material was chosen because of higher strength and lighter weight for the larger plugs. Drilling out these plugs has been a problem. It is recommended to follow the drill out procedure for DeepSea EXPRES plugs.
- Drill out procedure has been sent to Santos.

3 17 1/2" HOLE / 13 3/8" CASING

3.1 Drilling/Casing:

A 17 1/2" hole was drilled to a total depth of 1947m. 13 3/8" casing was run and set at 1942 m. DeepSea EXPRES cement head was used to release top and bottom plugs for this string.

3.2 Design:

Provide zonal isolation for any formation fluids and good LOT at shoe.
This operation will utilise DeepSea EXPRES* cement head with top plug and bottom plug to execute cement job

Lead Slurry

Sea water 11.827 gal/sk
D047 (antifoam): 0.03gal/sk
D075 (extender): 0.42 gal/sk
D081 (retarder): 0.04 gal/sk
Density Lead Slurry – 12.5 ppg
Yield Lead Slurry – 2.12 cuft/sk
Lead Slurry Volume – 308 bbls

Tail Slurry

Sea water 4.806 gal/sk
D047 (antifoam): 0.03gal/sk
D081 (retarder): 0.03gal/sk
D193 (fluid loss):0.40gal/sk
D145A (dispersant):0.08gal/sk
Density Tail Slurry – 15.8 ppg
Yield Tail Slurry- 1.19 cuft/sk
Tail Slurry Volume – 112 bbls

3.3 Execution:

Job Date: 31/05/08
Cementing job time started: 06:45 hr

Procedure:

1. Pre job safety meeting
2. Pumped sea water and pressure test the lines to 4400psi
3. Pumped 20bbl of sea water
4. Drop the bottom dart
5. Pump 35 bbl of Sea water to chase the bottom dart to release bottom plug (including 2 bbl behind the release)
6. Mixed and pumped 308 bbl of Lead slurry @ 12.5 ppg
7. Mixed and pumped 112 bbl of Tail slurry @ 15.8 ppg
8. Drop top DSE dart plug
9. Pump 43 bbl of sea water to chase dart to release DSE top plug (including 10 bbl behind the release)
10. Switch over to rig pumps to continue displacement and bump the plug

3.4 Evaluation:

At 04:00 am on June 01st, 2008 tagged cement at 1913mRT (LAT). Good cement found. Circulated and displaced the well with KCl – Glycol mud. Drilled out top and bottom cement plugs from 1913mRT to 1915mRT (float collar). Continued to drilled out the shoe track from 1915mRT to 1942mRT (shoe). Wash down and drilled 3m of new formation from 1947mRT to 1950mRT. LOT was conducted with 9.4 ppg mud @ 1942 TVD. EMW = 1.55 sg (meet objectives)

4 12 1/4" P&A, Plug 1a, 1b, 2 and 3

a) Drilling/Casing:

A 12 1/4" hole was drilled to a total depth of 3060m. Four cement plugs were set at different depths to abandon the well.

- Plug 1a: 150m (from 3080 – 2910m) @ 15.8 ppg HTB cement (base on caliper + 10%)
- Plug 1b: 150m (from 2910 – 2760m) @ 15.8 ppg HTB cement (base on caliper + 10%)
- Plug 2: 150m (from 1990 – 1840m) @ 15.8 ppg class G cement (Caliper + 10%)
- Plug 3: 70m (from 700 – 630m) @ 15.8 ppg HTB cement

b) Design:

- Plug 1a

Single 15.8 ppg tail slurry was designed to abandon this section

Tail Slurry

HTB cement: 16.7 MT

Drill water 5.884 gal/sk

D047 (antifoam): 0.03gal/sk

D193 (fluid loss):0.40gal/sk

D145A (dispersant):0.08gal/sk

D110 (retarder): 0.02 gal/sk

Density Tail Slurry – 15.8 ppg

Yield Tail Slurry- 1.53 cuft/sk

Tail Slurry Volume – 80 bbls

c) Execution:

Job Date: 06/06/08

Cementing job time started: 21:38 hr

Procedure:

1. Pre job safety meeting
2. Pumped 15 bbl of drill water ahead and pressure test the lines to 1500psi
3. Mixed and pumped 80 bbl of Tail slurry @ 15.8 ppg
4. Pump 2 bbl of drill water
5. Switch over to rig pumps to continue displacement with 162 bbl of WBM

6. Pull out 6 stands drill pipe and circulate the hole

d) Evaluation:

No problems experienced during the job. Dumped 85 bbl of contaminated mud and no green cement at surface.

- **Plug 1b**

Single 15.8 ppg tail slurry was designed to abandon this section

Tail Slurry

HTB cement: 16.9 MT

Drill water 5.884 gal/sk

D047 (antifoam): 0.03gal/sk

D193 (fluid loss):0.40gal/sk

D145A (dispersant):0.08gal/sk

D110 (retarder): 0.02 gal/sk

Density Tail Slurry – 15.8 ppg

Yield Tail Slurry- 1.53 cuft/sk

Tail Slurry Volume – 80 bbls

e) Execution:

Job Date: 07/06/08

Cementing job time started: 01:12 hr

Procedure:

1. Pre job safety meeting
2. Pumped 15 bbl of drill water ahead
3. Mixed and pumped 80 bbl of Tail slurry @ 15.8 ppg
4. Pump 2 bbl of drill water
5. Switch over to rig pumps to continue displacement with 152 bbl of WBM
6. Pull out 6 stands drill pipe and circulate the hole

f) Evaluation:

No problems experienced during the job. After circulation no mud contaminated at surface.

- **Plug 2**

Single 15.8 ppg tail slurry was designed to abandon this section

Tail Slurry

Class G cement: 16.1 MT

Drill water 4.880 gal/sk

D047 (antifoam): 0.03gal/sk

D193 (fluid loss):0.20gal/sk

D145A (dispersant):0.03gal/sk

Density Tail Slurry – 15.8 ppg

Yield Tail Slurry- 1.16 cuft/sk

Tail Slurry Volume – 78 bbls

g) Execution:

Job Date: 07/06/08

Cementing job time started: 06:18 hr

Procedure:

- 1) Pre job safety meeting
- 2) Pumped 15 bbl of drill water ahead and pressure test the lines to 1500psi
- 3) Mixed and pumped 78 bbl of Tail slurry @ 15.8 ppg
- 4) Pump 2 bbl of drill water
- 5) Switch over to rig pumps to continue displacement with 100 bbl of WBM
- 6) Pull out 6 stands drill pipe and circulate the hole

h) Evaluation:

At 04:50 am (07 June, 2008) tagged top of cement at 1846mRT (96m of cement above the shoe)
– met objectives.

- **Plug 3**

Single 15.8 ppg tail slurry was designed to abandon this section

Tail Slurry

HTB cement: 7.4 MT

Drill water 6.358 gal/sk

D047 (antifoam): 0.03gal/sk

Density Tail Slurry – 15.8 ppg

Yield Tail Slurry- 1.52 cuft/sk

Tail Slurry Volume – 34 bbls

i) Execution:

Job Date: 08/06/08

Cementing job time started: 04:57 hr

Procedure:

1. Pre job safety meeting
2. Pumped 10 bbl of drill water ahead and pressure test the lines to 1000psi
3. Mixed and pumped 34 bbl of Tail slurry @ 15.8 ppg
4. Pump 1 bbl of drill water behind
5. Displace with 28 bbl of sea water
6. Pull out 2 stands drill pipe and circulate the hole

j) Evaluation:

No problem observed during the execution of the job.

APPENDIX A:

Laboratory Schlumberger Reports

Laboratory Cement Test Report – 30" Conductor

Fluid No : AOPT1292002		Client : Santos	Location / Rig : Ocean Patriot	Signatures Jereme	
Date : Feb-26-2008		Well Name : Jarver	Field : Bass Straite		
Job Type	Conductor	Depth	647.0 m	TVD	647.0 m
BHST	12 degC	BHCT	16 degC	BHP	1050 psi
Starting Temp.	27degC	Time to Temp.	00:10	Heating Rate	degF/min
Starting Pressure	psi	Time to Pressure	00:10	Schedule	
Composition					
Slurry Density	15.80 lb/gal	Yield	1.19 ft ³ /sk	Mix Fluid	5.370 gal/sk
Solid Vol. Fraction	39.5 %	Porosity	60.5 %	Slurry type	Conventional
Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft ³	Rig
Sea water	5.240 gal/sk		Base Fluid		Rig
D047	0.030 gal/sk		Antifoam		Lab
D186	0.100 gal/sk		Accelerator		Lab

Rheology (Average readings)

(rpm)	(deg)
300	99.0
200	73.0
100	52.0
60	39.5
30	27.0
6	19.0
3	13.5
10 sec Gel	14
10 min Gel	30
Temperature	27 degC
Pv: 77.357 cP	
Ty: 22.40 lbf/100ft ²	

Thickening Time

Consistency	Time
40 Bc	03:18 hr:mn
70 Bc	04:20 hr:mn
100 Bc	05:00 hr:mn
Remark : Thickening time do not include batch time	

Comments

General Comment :
 Fann Reading Comment :
 Thickening Time Comment :
 Other test Comment : ; ; ; ;

Laboratory Cement Test Report – 20" lead – **G cement**

Fluid No : AUP 1268004	Client : Santos	Location / Rig : Ocean Patriot	Signatures
Date : Jan-15-2008	Well Name : Jarver-01	Field : Perth	Paul

Job Type	Casing	Depth	1400.0 m	TVD	1400.0 m
BHST	44 degC	BHCT	31 degC	BHP	
Starting Temp.	27 degC	Time to Temp.	00:27 hr:mn	Heating Rate	0.84 degF/min
Starting Pressure	380 psi	Time to Pressure	00:27 hr:mn	Schedule	9.4-2

Composition

Slurry Density	12.00 lb/gal	Yield	2.57 ft ³ /sk	Mix Fluid	15.715 gal/sk
Solid Vol. Fraction	18.3 %	Porosity	81.7 %	Slurry type	Conventional

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft ³	Rig
Sea water	15.135 gal/sk		Base Fluid		Rig
D047	0.030 gal/sk		Antifoam		Lab
D075	0.500 gal/sk		Extender		Lab
D081	0.050 gal/sk		Retarder		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	13.0	
200	11.0	
100	9.0	
60	7.0	
30	5.0	
6	3.5	
3	2.0	
10 sec Gel	2	
10 min Gel	4	
Temperature	27 degC	
	Pv: 7.305 cP	
	Ty: 6.00 lbf/100ft ²	

Thickening Time

Consistency	Time
POD :	07:48 hr:mn
40 Bc	08:40 hr:mn
70 Bc	10:25 hr:mn
100 Bc	12:31 hr:mn
Remark : Thickening time do not include batch time	

Free Fluid

1.9 mL/250mL	in 2 hrs
At 27 degC and 90 deg incl.	
Sedimentation	None

Comments

General Comment :
Fann Reading Comment :
Thickening Time Comment :
Other test Comment : ; ; ;

Laboratory Cement Test Report – 20" Tail – HTB cement

Fluid No : Aupt1345001	Client : Santos	Location / Rig : Ocean Patriot	Signatures
Date : 17/5/08	Well Name : Jarver-1	Field :	Jereme

Job Type	Casing	Depth	1400.0 m	TVD	1400.0 m
BHST	44 degC	BHCT	31 degC	BHP	2656 psi
Starting Temp.	27 degC	Time to Temp.	00:27 hr:mn	Heating Rate	0.84 degF/min
Starting Pressure	380 psi	Time to Pressure	00:27 hr:mn	Schedule	9.4-2

Composition

Slurry Density	15.80 lb/gal	Yield	1.53 ft ³ /sk	Mix Fluid	6.430 gal/sk
Solid Vol. Fraction	43.8 %	Porosity	56.2 %	Slurry type	Conventional

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft ³	Rig
Fresh water	6.115 gal/sk		Base Fluid		Rig
D047	0.030 gal/sk		Antifoam		Lab
D168	0.200 gal/sk		Fluid loss		Lab
D080	0.060 gal/sk		Dispersant		Lab
D081	0.025 gal/sk		Retarder		Lab
D066	35.000 %BWOC		Silica		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	110.0	101.0
200	83.5	72.5
100	53.0	41.5
60	38.5	23.0
30	24.0	14.0
6	7.5	4.5
3	4.0	3.5
10 sec Gel	7	4
10 min Gel		
Temperature	27 degC	31 degC
	Pv: 94.463 cP Ty: 18.13 lbf/100ft ²	Pv: 99.083 cP Ty: 4.37 lbf/100ft ²

Thickening Time

Consistency	Time
40 Bc	05:21 hr:mn
70 Bc	05:25 hr:mn
100 Bc	05:31 hr:mn
Remark : Thickening time do not include batch time	

Comments

General Comment :
Fann Reading Comment :
Thickening Time Comment :
Other test Comment :

13 3/8" Casing Lead slurry

Laboratory Cement Test Report – lead

Fluid No : AAPT 1270001		Client : Santos	Location / Rig : Ocean Patriot	Signatures	
Date : 20/1/08		Well Name : Jarver-01	Field : Perth		
Job Type	Casing	Depth	2000.0 m	TVD	2000.0 m
BHST	68 degC	BHCT	36 degC	BHP	3893 psi
Starting Temp.	27 degC	Time to Temp.	00:35 hr:mn	Heating Rate	1.05 degF/min
Starting Pressure	478 psi	Time to Pressure	00:35 hr:mn	Schedule	9.5-2
Composition					
Slurry Density	12.50 lb/gal	Yield	2.12 ft ³ /sk	Mix Fluid	12.317 gal/sk
Solid Vol. Fraction	22.2 %	Porosity	77.8 %	Slurry type	Conventional
Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft ³	Rig
Sea water	11.827 gal/sk		Base Fluid		Rig
D047	0.030 gal/sk		Antifoam		Lab
D075	0.420 gal/sk		Extender		Lab
D081	0.040 gal/sk		Retarder		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	25.0	20.0
200	20.5	18.0
100	17.5	15.5
60	14.5	13.5
30	12.0	11.0
6	9.5	8.5
3	5.5	4.5
10 sec Gel	6	5
10 min Gel	18	12
Temperature	27 degC	36 degC
	Pv: 13.515 cP	Pv: 7.950 cP
	Ty: 11.76 lbf/100ft ²	Ty: 12.37 lbf/100ft ²

Thickening Time

Consistency	Time
POD	05:29 hr:mn
40 Bc	06:20 hr:mn
70 Bc	07:31 hr:mn
100 Bc	07:44 hr:mn
Remark : Thickening time do not include batch time	

Comments

General Comment :
Fann Reading Comment :
Thickening Time Comment
Other test Comment : ; ; ;

13 3/8" Casing Tail slurry

Laboratory Cement Test Report – tail

Fluid No : AUPT 1270001 Client : Santos Location / Rig : Ocean Patriot Date : 23/1/08 Well Name : Jarver-01 Field : Perth					
Job Type : Casing Depth : 2000.0 m TVD : 2000.0 m BHST : 68 degC BHCT : 36 degC BHP : 3893 psi Starting Temp. : 27 degC Time to Temp. : 00:35 hr:mn Heating Rate : 1.05 degF/min Starting Pressure : 478 psi Time to Pressure : 00:35 hr:mn Schedule : 9.5-2					
Composition					
Slurry Density : 15.80 lb/gal		Yield : 1.19 ft ³ /sk		Mix Fluid : 5.346 gal/sk	
Solid Vol. Fraction : 39.7 %		Porosity : 60.3 %		Slurry type : Conventional	
Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft ³	Rig
Sea water	4.806 gal/sk		Base Fluid		Rig
D047	0.030 gal/sk		Antifoam		Lab
D193	0.400 gal/sk		Fluid loss		Lab
D145A	0.080 gal/sk		Dispersant		Lab
D081	0.030 gal/sk		Retarder		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	85.0	78.0
200	69.5	67.0
100	52.0	49.5
60	36.5	35.0
30	28.0	22.0
6	16.5	13.0
3	9.0	7.0
10 sec Gel	10	8
10 min Gel	23	16
Temperature	27 degC	36 degC
	Pv: 64.223 cP Ty: 24.83 lbf/100ft ²	Pv: 54.861 cP Ty: 27.07 lbf/100ft ²

Thickening Time

Consistency	Time
40 Bc	04:10 hr:mn
70 Bc	04:26 hr:mn
100 Bc	04:49 hr:mn
Remark : Thickening time do not include batch time	

Free Fluid

1.1 mL/250mL	in 2 hrs
At 27 degC and 90 deg incl.	
Sedimentation	None

Water Analysis

Chloride	Calcium	Magnesium
585.00 mg/L	(lb/bbl)	(lb/bbl)

Fluid Loss

API Fluid Loss	128 mL
64 mL in 30 min at 36 degC	and 1000 psi

Comments

General Comment :
 Fann Reading Comment :
 Thickening Time Comment :
 Other test Comment : ; ; ; ;

Plug 1a

Laboratory Cement Test Report – Plug 1 – HTB cement

Fluid No : AUP1 1361002		Client : Santos	Location / Rig : Ocean Patriot		Signatures
Date : 5/6/08		Well Name : Jarver -01	Field : Bass Strait		Paul
Job Type	Casing	Depth	3080.0 m	TVD	3080.0 m
BHST	115 degC	BHCT	75 degC	BHP	6193 psi
Starting Temp.	27 degC	Time to Temp.	00:24 hr:mn	Heating Rate	5.09 degF/min
Starting Pressure	1310 psi	Time to Pressure	00:24 hr:mn	Schedule	()

Composition

Slurry Density	15.80 lb/gal	Yield	1.53 ft ³ /sk	Mix Fluid	6.414 gal/sk
Solid Vol. Fraction	43.8 %	Porosity	56.2 %	Slurry type	Conventional

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of G cement	Blend	199.77 lb/ft ³	Rig
Fresh water	5.884 gal/sk		Base Fluid		Rig
D066	35.000 %BWOC		Silica		Lab
D047	0.030 gal/sk		Antifoam		Lab
D193	0.400 gal/sk		Fluid loss		Lab
D145A	0.080 gal/sk		Dispersant		Lab
D110	0.020 gal/sk		Retarder		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	90.0	78.0
200	69.5	61.0
100	49.0	40.5
60	34.0	29.0
30	27.0	19.0
6	19.0	13.0
3	13.5	9.5
10 sec Gel	15	
10 min Gel	41	
Temperature	27 degC	75 degC
	Pv: 70.099 cP Ty: 21.74 lb/100ft ²	Pv: 65.362 cP Ty: 15.38 lb/100ft ²

Thickening Time

Consistency	Time
40 Bc	04:53 hr:mn
70 Bc	05:11 hr:mn
100 Bc	05:18 hr:mn
Remark : Thickening time do not include batch time	

Water Analysis

Chloride	Calcium	Magnesium
587.00 mg/L	(lb/bbl)	(lb/bbl)

Fluid Loss

API Fluid Loss	128 mL
62 mL in 28 min at 75 degC and 1000 psi	

Comments

General Comment :
Fann Reading Comment :
Thickening Time Comment :
Other test Comment : : : :

Plug 1b

Laboratory Cement Test Report – plug 2 – HTB cement

Fluid No : AUPT 1362003	Client : Santos	Location / Rig : Ocean Patriot	Signatures
Date : 5/6/08	Well Name : Jarver -01	Field :	Paul

Job Type	Casing	Depth	2250.0 m	TVD	2250.0 m
BHST	79 degC	BHCT	47 degC	BHP	4102 psi
Starting Temp.	27 degC	Time to Temp.	00:17 hr:mn	Heating Rate	3.89 degF/min
Starting Pressure	938 psi	Time to Pressure	00:17 hr:mn	Schedule	()

Composition

Slurry Density	15.80 lb/gal	Yield	1.53 ft ³ /sk	Mix Fluid	6.412 gal/sk
Solid Vol. Fraction	43.9 %	Porosity	56.1 %	Slurry type	Conventional

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft ³	Rig
Fresh water	5.892 gal/sk		Base Fluid		Rig
D047	0.030 gal/sk		Antifoam		Lab
D193	0.400 gal/sk		Fluid loss		Lab
D145A	0.080 gal/sk		Dispersant		Lab
D066	35.000 %BWOC		Silica		Lab
D110	0.010 gal/sk		Retarder		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	90.0	80.0
200	69.5	64.0
100	49.0	41.5
60	34.0	31.0
30	27.0	22.0
6	19.0	17.0
3	13.5	12.0
10 sec Gel	15	15
10 min Gel	41	26
Temperature	27 degC	47 degC
	Pv: 70.099 cP Ty: 21.74 lbf/100ft ²	Pv: 65.529 cP Ty: 17.58 lbf/100ft ²

Thickening Time

Consistency	Time
40 Bc	04:49 hr:mn
70 Bc	05:17 hr:mn
100 Bc	05:27 hr:mn
Remark : Thickening time do not include batch time	

Water Analysis

Chloride	Calcium	Magnesium
587.00 mg/L	(lb/bbl)	(lb/bbl)

Fluid Loss

API Fluid Loss	112 mL
52 mL in 26 min at 47 degC	and 1000 psi

Comments

General Comment :
 Fann Reading Comment :
 Thickening Time Comment :
 Other test Comment : ; ; ;

Plug 2

Laboratory Cement Test Report – Plug 3 – G cement

Fluid No : AUP1 1363001	Client : Santos	Location / Rig : Ocean Patriot	Signatures
Date : Mar-06-2008	Well Name : Jarver -01	Field :	Paul

Job Type	Casing	Depth	2010.0 m	TVD	2050.0 m
BHST	71 degC	BHCT	41 degC	BHP	3664 psi
Starting Temp.	27 degC	Time to Temp.	00:15 hr:mn	Heating Rate	3.53 degF/min
Starting Pressure	873 psi	Time to Pressure	00:15 hr:mn	Schedule	()

Composition

Slurry Density	15.80 lb/gal	Yield	1.16 ft ³ /sk	Mix Fluid	5.140 gal/sk
Solid Vol. Fraction	40.6 %	Porosity	59.4 %	Slurry type	Conventional

Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G		94 lb of BLEND	Blend	199.77 lb/ft ³	Rig
Fresh water	4.880 gal/sk		Base Fluid		Rig
D047	0.030 gal/sk		Antifoam		Lab
D193	0.200 gal/sk		Fluid loss		Lab
D145A	0.030 gal/sk		Dispersant		Lab

Rheology (Average readings)

(rpm)	(deg)	(deg)
300	99.0	80.0
200	78.0	68.5
100	62.5	52.5
60	46.5	40.5
30	31.5	26.5
6	23.0	19.0
3	16.0	13.0
10 sec Gel	17	15
10 min Gel	50	28
Temperature	27 degC	41 degC
	Pv: 62.612 cP Ty: 37.36 lb/100ft ²	Pv: 49.616 cP Ty: 33.02 lb/100ft ²

Thickening Time

Consistency	Time
40 Bc	03:21 hr:mn
70 Bc	03:44 hr:mn
100 Bc	04:08 hr:mn
Remark : Thickening time do not include batch time	

Water Analysis

Chloride	Calcium	Magnesium
587.00 mg/L	(lb/bbl)	(lb/bbl)

Fluid Loss

API Fluid Loss	215 mL
62 mL in 10 min at 41 degC	and 1000 psi

Comments

General Comment :
 Fann Reading Comment :
 Thickening Time Comment :
 Other test Comment : ; ; ; ;

Plug 3

Laboratory Cement Test Report – Plug 4 – HTB cement

Fluid No : APT 1351001	Client : Santos	Location / Rig : Ocean Patriot	Signatures
Date : 22/5/08	Well Name : Jarver-1	Field : Perth	Paul

Job Type	Plug	Depth	680.0	TVD	680.0 m
BHST	27 degC	BHCT	27 degC	BHP	
Starting Temp.	27 degC	Time to Temp.	00:15 hr:mn	Heating Rate	4.00 degF/min
Starting Pressure	856 psi	Time to Pressure	00:15 hr:mn	Schedule	

Composition

Density	15.80 lb/gal	Yield	1.52 ft ³ /sk	Mix Fluid	6.388 gal/sk
Porosity	56.1 %	Solid Fraction	43.9 %	Slurry type	Conventional
Code	Concentration	Sack Reference	Component	Blend Density	Lot Number
G cement		94 lb of G cement	Blend	199.77 lb/ft ³	
Fresh water	6.358 gal/sk		Base Fluid		
D047	0.030 gal/sk		antifoam		
D066	35% BWOC		Silica		

Rheology (Average readings)

(rpm)	(deg)
300	116.0
200	100.5
100	80.5
60	69.5
30	59.5
6	29.5
3	20.5

Temperature	27 degC
	Pv: 63.064 cP
	Tv: 56.37 lb/100ft ²

Thickening Time

Consistency	Time
40 Bc	03:00 hr:mn
100 Bc	03:26 hr:mn

Free Fluid

0.6 mL/250mL	in 2 hrs
At 80 degF and 90 deg incl.	
Sedimentation	None

Fluid Loss

API Fluid Loss	N/C	mL
N/C mL in 30 min at 25 degC		and 1000 psi

Comments

APPENDIX B:

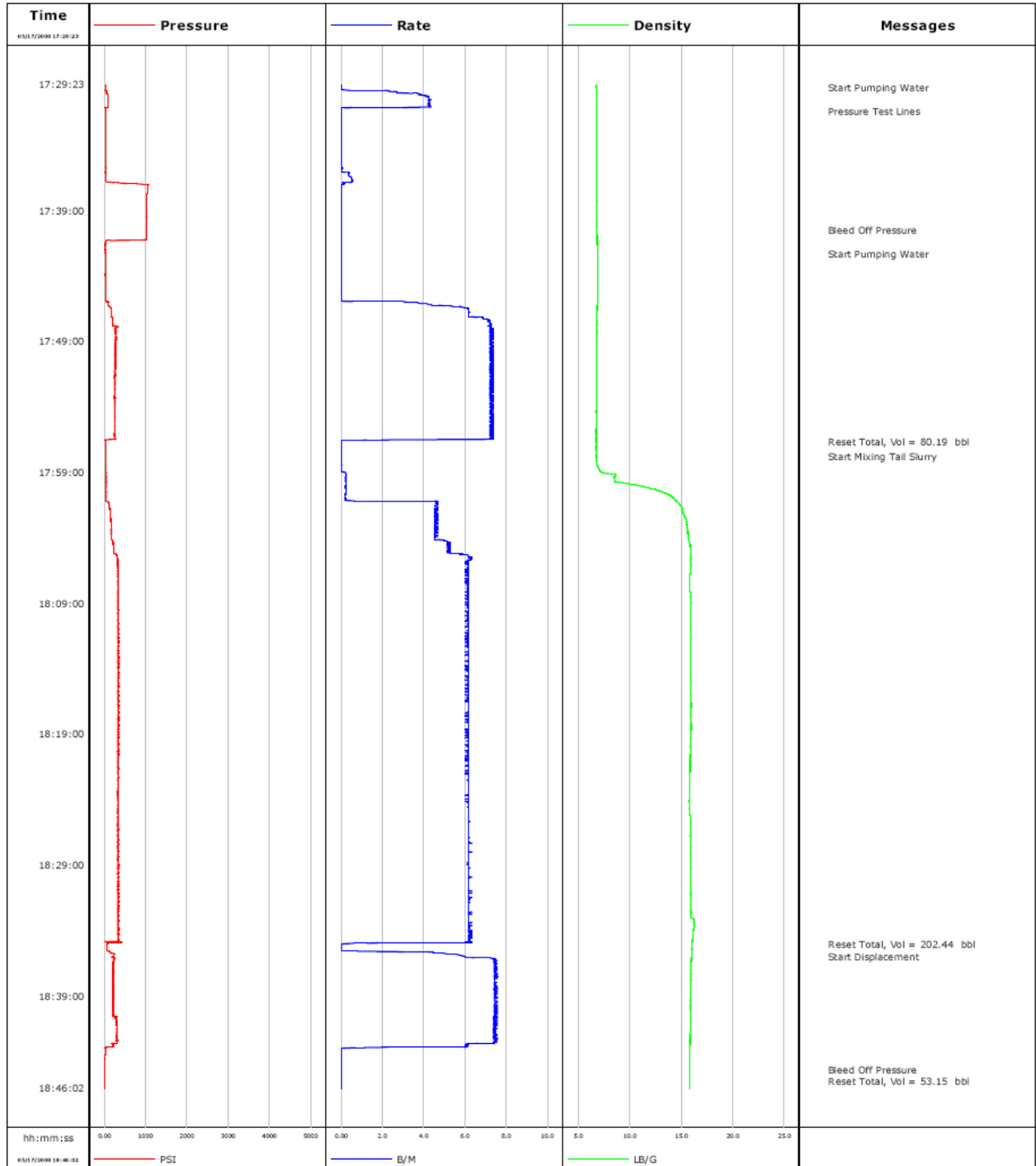
Schlumberger Service Reports and Plots

30" Casing Cement Job

DISTRICT APG	STATION	TYPE SERVICE 30" Casing Job		COMPANY Santos		Schlumberger	
RIG Ocean Patriot		TYPE OF WELL Exploration		FIELD Jarver 1		WELL No.	
TIME AND DATE JOB STARTED 17:29 - 17.05.08		TOTAL DEPTH 645m		SIZE HOLE 36"		INVOICE NUMBER	
TIME & DATE JOB COMPLETED 18:45 - 17.05.08		DRILL FLUID Gel sweeps		FORMATION		SIR NUMBER	
30"		643m		X-52		Pervious Casing	
Size		Depth		Type		Size	
Completion		Wt.		Volume		Allowable Press.	
Size		Depth		Type		Collar at	
Cement Head		41/2" Liner		BRIDGE PLUG		TAIL PIPE	
Size		Depth		Type		Depth	
SHOE		COLLAR		PLUGS		CENT.	
X		X		Top Bottom		Qty. Type	
WASH		8.3ppg		SPACER		LEAD SLURRY	
Wt.		Vol. BBLs		Wt.		Vol. BBLs	
Vol. BBLs		Fill		Wt.		Vol. BBLs	
EQUIPMENT		X LAS		X Pump		MUD RETURNS	
X UPJ		Unit		RCM		LOST DURING JOB	
Mudpush DESIGN		Tail Slurry Design		PARAMETERS RECORDED		Recorder	
Class "G" neat + 0.03 gps + 0.1gps D186 + 5.37gps Seawater @ 15.8ppg w/ 1.19cf/sk yield		Class "G" Cement = 953 sks (41 MT)		D047 Antifoam = 30 gals		D186 Enhacer = 108 gals	
		Flourescene Dye = 1 kg					
TIME		PRESSURE		VOLUME		LT	
		Low High		BBL BPM		MIN	
17:29				5 4.2		Pump 5 bbls of Seawater to flush the line	
17:31		1,000				Pressure test line to 1,000 psi - OK	
17:42				75 7.2		Pump 75 bbls of Seawater as Spacer	
17:57				202 6		Mix and pump 202 bbls of Tail slurry @ 15.8ppg (Mix fluid = 122bbls)	
18:35				53 7.5		Displace with 53 bbls of Seawater	
18:44						Bleed off and check return. No backflow observed	
18:45						End of job	
No. OF DS PERSONNEL ON JOB		STEM1 DONE? YES X NO		TOTAL LOST TIME H		TOTAL OPERATING TIME 2 H	
SIP		SS 1		CUSTOMER COMMENTS		DS REPRESENTATIVE	
MECH		F.E. HEL 1				Edgar Llanos / Mark Dawson	
QUALITY OF SERVICE		GOOD		SATISFACTORY		POOR	
						CUSTOMER REPRESENTATIVE	
						Peter Devine / Rohan Richardson	

Cementing Job Report

Well	Jarver 1	Client	Santos
Field		SIR No.	
Engineer	Lam Thao Nguyen	Job Type	
Country	Australia	Job Date	17/05/08

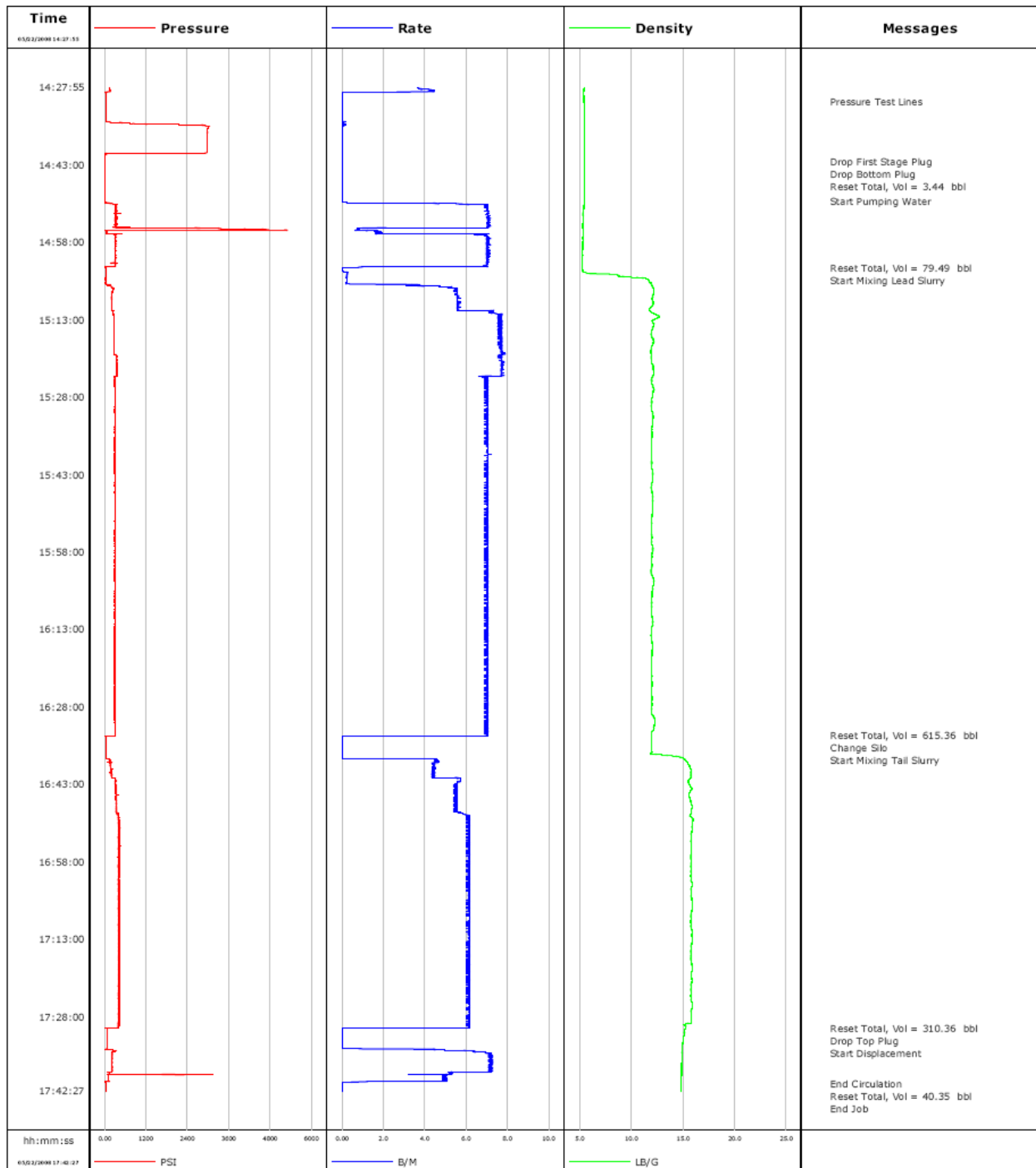


20" Casing Cement Job

ACT	STATION	TYPE SERVICE		COMPANY		Schlumberger	
APG		20" Casing Job		Santos			
WELL	WELL No.	TYPE OF WELL		FIELD		SERVICE REPORT	
Ocean Patriot		Exploration		Jarver I			
TIME AND DATE JOB STARTED		TOTAL DEPTH	SIZE HOLE	DEVIATION	BHST	INVOICE NUMBER	
14:20 - 22.05.08		1407m	26"				
TIME & DATE JOB COMPLETED		DRILL FLUID		FORMATION		SIR NUMBER	
17:42 - 22.05.08		Gel sweeps					
		Type	Wt	Vis			
			Casing			Previous Casing	
20"	1402m	X-56	133ppf	1.11809bbl/m			
Size	Depth	Type	Wt	Volume	Allowable Press.	Collar at	
		Completion					
Size	Depth	Type	Wt	Packer @	Top	Shoe Depth	
CASING EQUIPMENT USED				CEMENT HEAD		MUD CIRCULATION PRIOR TO JOB	
SHOE	COLLAR	PLUGS	CENT.	DSEH			
Thrust Bolt	Thrust Bolt	Top	Bottom	Qty	Type	Time - Min.	Vol. PER S
WASH		SPACER		LEAD SLURRY		TAIL SLURRY	
Wt	Vol. BBLs	Wt	Vol. BBLs	Wt	Vol.	Wt	Vol.
ROUTING		ROUTING JOB WAS DONE		PARAMETERS RECORDED		MUD RETURNS	
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
X	X	X	X	X	X	X	X
Lead Slurry Design		Tail Slurry Design		MATERIALS USED			
Class "G" neat + 0.03gpps D047 + 0.5gpps D075 + 0.05gpps D081 + 15.715gpps Seawater @ 12ppg w/ 2.57cc/sk yield		Class "G" + 35% BWOC D066 + 0.03 gpps D047 + 0.2gpps D168 + 0.06gpps D080 + 0.025gpps D081 + 6.115gpps Drill Water @ 15.8ppg w/ 1.53cc/sk yield		Class "G" Cement = 1345 sks (57 MT) Blended Cement (HTB) = 1137 sks (65 MT) D047 Antifoam = 75 gals D075 Extender = 689 gals D080 Dispersant = 78 gals D081 Retarder = 95 gals D168 UniPlac = 250 gals 20" Top plug (DSE) = 1 ea. 20" Bottom Plug (DSE) = 1 ea.			
PRESSURE		VOLUME		LT		RECORD OF SERVICE	
TIME	Low	High	BBL	RPM	MIN		
14:23			5	4.2		Pump 5 bbls of Seawater to flush the line	
14:30		3,000				Pressure test line to 3000 psi - OK	
14:42						Drop Bottom dart	
14:49			80	7		Pump 80 bbls of Seawater and confirmed shearing of bottom plug after 33 bbls	
15:03			615	7		Mix and pump 615 bbls of Lead slurry @ 12ppg (Mix fluid = 504 bbls)	
15:34			310	6.2		Mix and pump 310 bbls of Tail slurry @ 15.8ppg (Mix fluid = 174 bbls)	
17:30						Drop Top plug	
17:34			40	7		Displace with 40 bbls Seawater	
17:41						Switch over to rig for final displacement and bump the plug	
17:42						End of job	
NO. OF US PERSONNEL ON JOB		STEMI DONE?		TOTAL LOST TIME		TOTAL OPERATING TIME	
SUP 1		YES X NO		H		H	
MECH 1							
CUSTOMER COMMENTS						DS REPRESENTATIVE	
						Edgar Lingas / Mark Dawson	
QUALITY OF SERVICE		GOOD		SATISFACTORY		CUSTOMER REPRESENTATIVE	
						Peter Devine / Nathan Peri	

Cementing Job Report

Well	Jarver 1	Client	Santos
Field		SIR No.	
Engineer	Lam Thao Nguyen	Job Type	
Country	Australia	Job Date	22/05/08



13 3/8" Casing Cement Job

DISTRICT APG	STATION	TYPE SERVICE 13 3/8 Casing Cementing		COMPANY Santos		Schlumberger	
RIG Ocean Patriot	TYPE OF WELL Exploration		FIELD Jarver-1		WELL No.		
TIME AND DATE JOB STARTED 08:45 31 May 2008		TOTAL DEPTH 1947 m	SIZE HOLE 17 1/2"	DEVIATION	BHST 68 deg C	BHCT 36 deg C	INVOICE NUMBER
TIME AND DATE COMPLETED 12:30 31 May 2008		DRILL FLUID WBM Type 9.4 ppg WL Vis		FORMATION		SIR NUMBER	
13 3/8" csg Size		1942 m Depth	Liner 68 # WL	Volumes	Allowable Press.	1916 m Collar at	Previous Casing 597 m TOP 1399 m Bottom 20" Size
Completion Size Depth Type WL Packer @ top Shoe Depth		BRIDGE PLUG Type Depth Type Depth		TAIL PIPE Type Depth			
CASING EQUIPMENT USED SHOE ☒ COLLAR ☒ PLUGS ☒ ☒ CENT. Qty. Type WASH WL Vol. BBLs Fill 8.34 55 12.5 308 bbls 240 bbls 493 m 15.8 112 bbls 67 bbls 155 m				CEMENT HEAD Deep sea express Time - Min. Vol. BBLs Press - PSI			
EQUIPMENT ☒ LAS ☒ Pump Unit ☐ Batch Mixer ☐ Compressor RCM		SPACER 4062913261 Pump Unit S/No.		DURING JOB WAS PIPE Rotated Reciprocated		PARAMETERS RECORDED: ON: ☒ ☒ ☒ ☒ CemCat Recorder	
LEAD SLURRY G cmt + 11.827 gps sea water + 0.03 gps D047 0.420 D075 + 0.040 gps D081 gps Yield 2.12 cf/sk @ 12.5 ppg density		TAIL SLURRY G cmt + 0.030 gps D047 + 0.40 gps D193 + 0.08 gps D145A + 0.030 gps D081 + 4.806 gps sea water, Yield 1.19 cf/sk @ 15.8 ppg density		MATERIALS USED D145A = 57 gals G = 58 MT D047 = 45 gals D075 = 358 gals D081 = 48 gals			
TIME		PRESSURE Low High		VOLUME BBL BPM		LT MIN	
RECORD OF SERVICE		Note: Chemical volume including losses in LAS line					
Production tests							
08:45		4,400				Safety meeting rig floor	
08:15		270		20 6		Test line	
08:25						Pump 20 bbls sea water	
08:30		2,300		35 6		Drop bottom DSE dart plug	
08:38		275		308 6.5		Pump 33 bbls s/water to chase dart to release DSE Bottom plug + 2 bbls s/water behind	
09:25		345		112 6		Mix and pump lead slurry @ 12.5 ppg with G cmt + 0.03 gps D047 + 0.420 gps D075 + 0.040 gps D081 + 11.827 gps sea water	
09:50						Mix and pump tail slurry @ 15.8 ppg with G cmt + 0.03 gps D047 + 0.40 gps D193 0.080 gps D145A + 0.030 gps D081 + 4.806 gps sea water	
09:55		1,800		43 6		Drop top DSE dart plug	
10:00						Pump 33 bbls s/water to chase dart to release DSE Top plug + 10 bbls s/water behind	
10:05						Switch to rig pump to continue displacement	
11:57		5,000				Wash and clean unit	
12:25						Test Seal Assy	
12:30						Bleed off pressure	
						End of job	
No. of DS PERSONNEL ON JOB		STEM1 DONE? YES X NO		TOTAL LOST TIME H		TOTAL OPERATING TIME 6 H	
CUSTOMER COMMENTS		DS REPRESENTATIVE					
SUP ☐ S.S. ☐ 1		Manger Ramillo/ Nori					
MECH ☐ F.E. ☐ HEL ☐ 1		CUSTOMER REPRESENTATIVE					
QUALITY OF SERVICE		GOOD ☐		SATISFACTORY ☐		POOR ☐	
		Chris Roots/ N. Peri					

Cement Plug 1b

DISTRICT APG	STATION	TYPE SERVICE Cement Plug 1b		COMPANY Santos		Schlumberger	
RIG Ocean Patriot		TYPE OF WELL Exploration		FIELD Jarver-1		WELL No.	
TIME AND DATE JOB STARTED 01:12 7 June 2008		TOTAL DEPTH 2912 -2760 m		SIZE HOLE 12 1/4"		DEVIATION 115 deg C 75 deg C	
TIME AND DATE COMPLETED 02:05 7 June 2008		DRILL FLUID WBM Type 10.4 ppg		FORMATION		SIR NUMBER	
13 3/8" csg Size		1942 m Depth		68 # WL		1916 m Color of	
Completion		Type		Volume		Allowable Press.	
Size		Depth		Type		Packer @	
SHOE		COLLAR		PLUGS		CENT.	
WASH		SPACER		LEAD SLURRY		TAIL SLURRY	
WL		Vol. BBLG		Vol. BBLG		Vol. BBLG	
EQUIPMENT		DURING JOB WAS PIPE		PARAMETERS RECORDED:		MUD RETURNS	
X LAG X Pump X Batch Compressor		Rotated Reciprocated		X X X X		GemCat Recorder	
LEAD SLURRY		TAIL SLURRY		MATERIALS USED		D110 = 5	
HTB Cmt + 0.030 gps D047 + 0.40 gps D193 + 0.08 gps D145A + 0.020 gps D110 + 5.884 gps D1 water . Yield 1.53 cfsk @ 15.8 ppg density		HTB = 16.9 MT D047= 10 gals D193 = 116 gals D145A = 25 gals					
TIME	PRESSURE Low High		VOLUME BBL BPM		LT MIN	RECORD OF SERVICE	
						Production tests	
01:12	85		15 6			Safety meeting ng floor	
01:16	360		80 6			Pump Drill water ahead	
01:35	105		2 6			Mix and pump tail slurry - 152 m plug (2912 - 2760) @ 15.8 ppg with HTB cmt + 0.03 gps D047 + 0.40 gps D193 + 0.080 gps D145A + 0.020 gps D110 + 5.884 gps drill water	
01:36	365		152 6.5			Pump drill water behind	
02:00	0					Displace pipe with mud	
02:02						End of displacement	
02:05						Pull out 6 stands drill pipe and circulate hole	
						End of service	
No. OF DS PERSONNEL ON JOB		STEM1 DONE? YES X NO		TOTAL LOST TIME H		TOTAL OPERATING TIME	
SUP ☐ G.S. ☐ MECH ☐ F.E. ☐ HILL ☐		CUSTOMER COMMENTS				DS REPRESENTATIVE	
QUALITY OF SERVICE		GOOD ☐ SATISFACTORY ☐ POOR ☐				Manny Raffia/ Nori	
						CUSTOMER REPRESENTATIVE	
						Chris Roots/ N. Peri	

Casing / Cementing Summary

Jarver – 1

762mm (30") Conductor Casing 17th May 2008

Hole Size 914mm (36")
Depth 645mMDRT

762mm (30") Conductor

1 x 762mm (30") Float shoe
1 x 762mm (30") Intermediate Joint
1 x 762mm (30") X-over Joint
1 x 762mm (30")

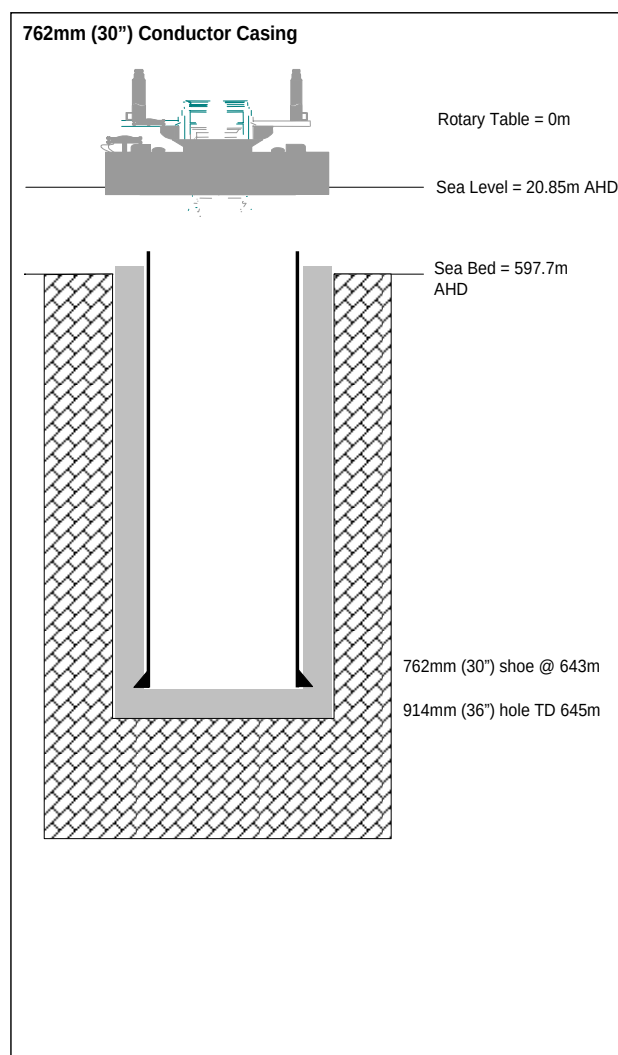
OD 762mm (30")
Grade X-52
Shoe Depth 642mMDRT

Cement Details:

Sacks: 250Sx
Type ABC / "G"
Mix water: 5.37gal/sx
Additives: CaCl 1% BWOC
Fluoroscience Dye 1kg
Weight: 1.90sg (15.8ppg)
Yield: 0.03m³/sx (1.17ft³/sx)
Volume: 32.11m³ (202bbls)

Summary

Four joints of 762mm (30") casing (SF60 shoe joint, intermediate joint and housing joint) were made up and run in the hole without difficulty on 140mm (5-1/2") drill pipe. The casing shoe was set at 642m. After circulating casing capacity, the cement job proceeded as follows: pumped 5 bbls seawater with dye, tested lines to 1700psi, pumped further 80 bbls seawater with dye. Mixed and pumped 202 bbls slurry, and displaced with seawater. Bled off pressure, floats held.



508mm (20") Casing 21st May – 22nd May 2008

Hole Size 660mm (26")
Depth 1407 mMDRT

508mm (20") Casing

1 x 508mm (20") Shoe C Joint
1 x 508mm (20") Float A
61 x 508mm (20") Casing Joints
1 x 508mm (20") X/O Joint
1 x 407.25mm (18 $\frac{3}{4}$ ") Hanger Joint

ID 475.69mm (18.728")
Grade X-56
Shoe Depth 1399 mMDRT

Cement Details:

Lead Slurry

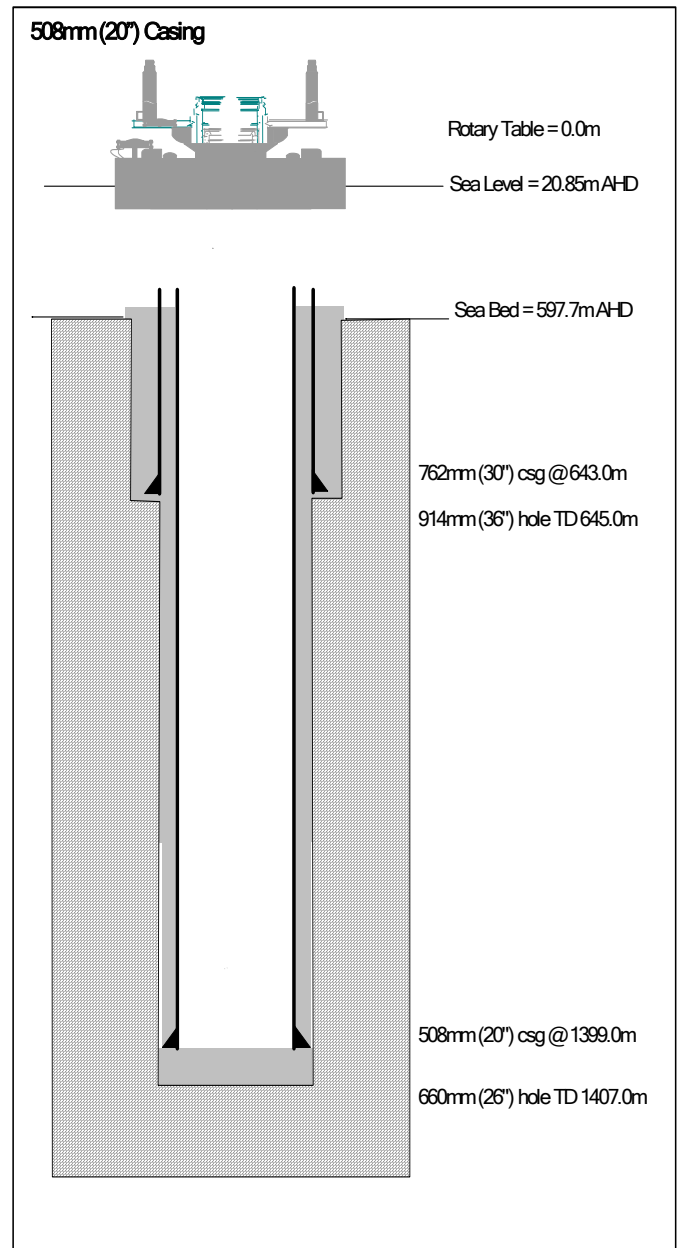
Sacks: 1345Sx
Type Class G
Mix water: 20.51m³ (503bbbls) Drill water
Additives: DD47 0.03 gal/sx
D081 0.037 gal/sx
D075 0.5 gal/sx
Weight: 1.44sg (12.0ppg)
Yield: 0.07m³/sx (2.57ft³/sx)
Volume: 615bbbls

Tail Slurry

Sacks: 1137Sx
Type HTB
Mix water: 8.40m³ (174bbbls) Drill water
Additives: D047 0.03 gal/sx
D168 0.22 gal/sx
D080 0.07 gal/sx
D081 0.03 gal/sx
Weight: 1.90sg (15.8ppg)
Yield: 0.04m³/sx (1.53ft³/sx)
Volume: 310bbbls

Summary

Sixty three joints of casing, including shoe, intermediate joints, float, were made up to drill pipe and run in. The casing shoe was set at 1399mRT. The cement job then proceeded as follows: pumped 5bbl drill water to flush the lines, tested lines to 3000psi, dropped bottom dart and pumped with 80bbl seawater, Mixed and pumped lead slurry, mixed and pumped tail slurry, dropped top dart. Pumped 40bbbls of sea water and confirmed top plug release. Pumped cement and drill water, changed over to rig pumps to finish displacement. Bumped plugs at 3150psi. Bled off pressure and checked floats held.



340mm (12 1/4") Casing 30th May – 31st May 2008

Hole Size 444.5mm (17.5")
Depth 1947 mMDRT

339.375mm (13.375") Casing

1 x 339.725mm (13.375") Shoe A
1 x 339.725mm (13.375") Inter Joint A
1 x 339.725mm (13.375") F/Collar A
109 x 339.725mm (13.375") Csg Joints
1 x 339.725mm (13.375") Csg Hanger Pup Joint
1 x 339.725mm (13.375") Csg Hanger

ID 317.30mm (12.492")
Grade L-80
Shoe Depth 1941.00 mMDRT

Cement Details:

Lead Slurry

Sacks: 816Sx
Type Class "G"
Mix water: 229.8bbls Drill water
Additives: D047 0.030gal/sx
D075 0.400gal/sx
D081 0.040gal/sx
Weight: 1.50sg (12.5ppg)
Yield: 2.12ft³/sx
Volume: 335bbls

Tail Slurry

Sacks: 526Sx
Type Class "G"
Mix water: 67bbls Drill water
Additives: D047 0.030gal/sx
D193 0.400gal/sx
D145A 0.080gal/sx
D081 0.030gal/sx
Weight: 1.90sg (15.8ppg)
Yield: 1.19ft³/sx
Volume: 112bbls

Summary

109 joints of casing, including shoe, intermediate joints, float, were made up on drill pipe and run in. The casing shoe was set at 1941mRT. The cement job then proceeded as follows: pumped 50bbl lead spacer of drill water, followed by 335bbls of lead cement and 112bbls of tail cement. The rig pumps then took over pumping approx 650bbls to displace the cement from the casing, until the pump pressure built up to 942psi which signalled the plugs being bumped.

The cement was then left to harden and the drill string was POOH.



SECTION 11 : MUDLOGGING WELL REPORT
(Including Mudlog 1:500 & D-Exponent Log)



Santos

END OF WELL REPORT

Santos Ltd

Jarver – 1

16th May 2008 – 4th June 2008

by

BAKER HUGHES INTEQ

The information, interpretations, recommendations, or opinions contained herein are advisory only and may be rejected. Consultant does not warrant their accuracy or correctness. Nothing contained herein shall be deemed to be inconsistent with, nor expand, modify or alter consultant's obligation of performance as provided for in a written agreement between the parties, or, if none, in consultant's most recent price list.

Jarver – 1
Final Well Report

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	1.2	Well Summary
Section 2	Drilling and Engineering	
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SECTION 1

WELL SUMMARY

1.1 Well and Rig Information

Well Name	Jarver – 1	
Well Type:	Vertical Exploration Well	
Operator:	Santos Ltd	
Location:	Sorell Basin	
Block:	T/33P	
Final Co-ordinates:	Latitude 41° 20' 27.25" S Longitude 144° 14' 03.19" E	
UTM Co-ordinates:	Easting 770 619 m Northing 5418358 m	
Rig:	Ocean Patriot	
Type:	Semi-submersible	
Drilling Datum:	Rotary Table	
Drill Floor Elevation:	20.85m AHD	
Water Depth:	576.85m AHD	
Spud Date:	16 th May 2008	
Total Depth:	3062.0 mMDRT	
TD Date:	07:00hrs, 4 th June 2008	
Well Status:	Plug and Abandon	
Baker Hughes INTEQ:	Data Engineers:	Mathew Rae, Subhash Sukumaran So Chiew Lan, Zulkifli Taib
	Logging Geologists:	Dibyendu Dhar, Rahul Recharia

1.2 Introduction

Baker Hughes INTEQ Mudlogging provided formation evaluation, drill monitoring and pressure evaluation services for Jarver-1 from spud from 598m until Total Depth of 3062mMDRT. All depths are in mMDRT. Data was processed and stored using ADVANTAGE V2.00U2 software.

Jarver-1 was designed as a vertical exploration well. Its objective was:

- To test the gas and oil potential the Lower Belfast formation (primary objective) and Paaratte formation (secondary objective) sands of the Sorell Basin.

Jarver – 1

Jarver-1 was spudded at 05:30hrs on 16th May 2008 at 597.7m. The 914mm (36") hole was drilled from 598m to 645m section TD with seawater and PHG, with the returns going to the seabed. The 762mm (30") conductor casing was then run, and cemented, with the shoe set at 642m.

The 660mm (26") hole was drilled in one bit run. At section TD, the hole was displaced with PHG and the bit was pulled out of hole to run casing. A total of 63 joints of 508mm (20") casing including x/o and casing hanger were run with the shoe set at 1400m. Upon completion, the casing was cemented as per the Santos program. The Mariner riser was then run and the BOP's tested.

After the successful installation of the subsea equipment, the 445mm (17 ½") section was drilled to section a TD of 1407m. A total of 109 joints of 13 3/8" Casing were then run and the shoe set at 1399m. A full BOP test was performed after the cement job was completed.

The 311mm (12 ¼") hole was drilled from 1947m and reached TD (3062m) at 07:00hrs on 4th June 2008 without any incident. The Schlumberger Wireline logs were run prior to the hole being plugged and abandoned.

SECTION 2

DRILLING and ENGINEERING

2.1 Bit Run Summaries

Jarver – 1

914mm (36") Hole Section 16th May 2008

Bit Run 1 Summary

Bit Number	NB1
Bit Size	914mm (36")
Bit Type	Varel – Rock bit 111
S/N	742636
Jets	4 x 32
Depth In (m)	598
Depth Out (m)	645
Metres Drilled	47
Drilling Hours	5.1
TBR (krevs)	25.1
Circulating Hours	4.7
Average ROP (m/hr)	9.2
API Condition	O-O-NO-A-O-I-O-TD

Drilling Parameters

WOB (klbs)	0	-	18
RPM	32	-	89
Torque (kft-lbs)	2	-	10
Flow In (gpm)	405	-	570
Pump Pressure (psi)	285	-	465

Mud System

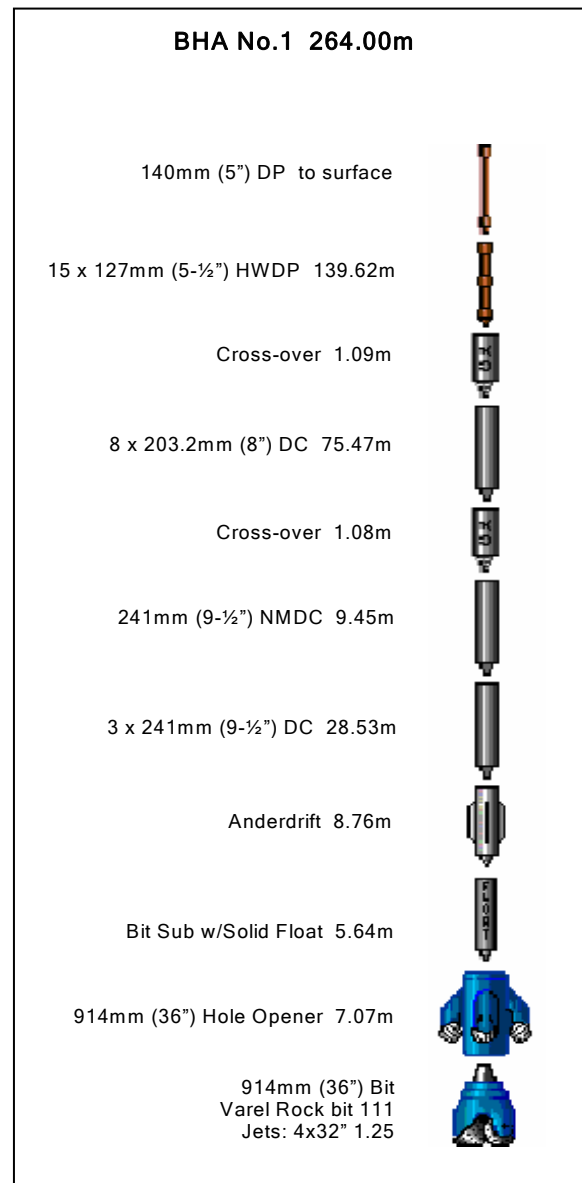
Sea water & hi-vis sweeps 1.04sg

Lithology

Returns to seabed.

Drilling Summary

Jarver-1 was spudded at 05:30hrs on 16th May 2008 at 598m. Drilling of the 914mm (36") hole, with a 914mm (36") hole opener, commenced and continued to 645m. The section was drilled with seawater and PHG sweeps, with returns going to seabed. At 645m, section TD, the well was circulated and 100bbls of PHG sweeps were pumped before pulling out of hole for the 762mm (30") conductor run.



660mm (26") Hole Section 18th – 19th May 2008

Bit Run 2 Summary

Bit Number	NB2
Bit Size	660mm (20")
Bit Type	Smith Mill
S/N	MZ6452
Jets	4 x 24
Depth In (m)	645
Depth Out (m)	1407
Metres Drilled (m)	762
Drilling Hours	23.2
TBR (krevs)	165.55
Circulating Hours	30.4
Average ROP (m/hr)	32.84
API Condition	1-1-WT-A-0-I-NO-TD

Drilling Parameters

WOB (klbs)	0	-	31
RPM	35	-	181
Torque (kft-lbs)	0	-	10.37
Flow In (gpm)	520	-	1230
Pump Pressure (psi)	660	-	3430

Mud System

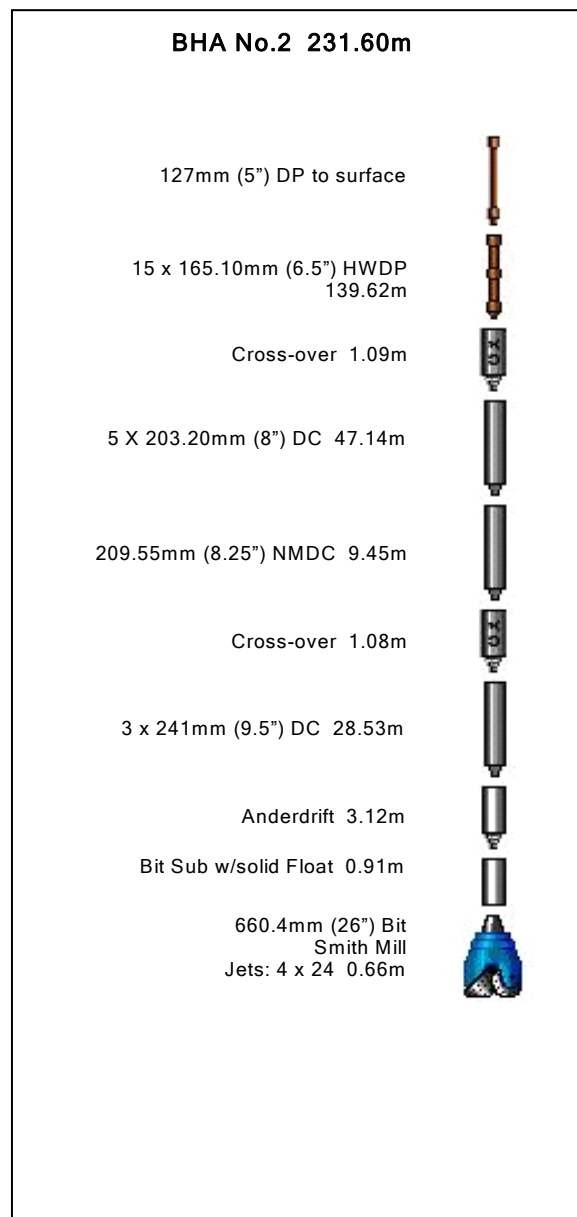
Seawater and PHG sweeps 1.03sg

Lithology

Returns to seabed.

Drilling Summary

NB2 was run in the hole, tagged the top of cement at 638.5m, and drilled out the cement and shoe to 645m. Drilling of new formation then proceeded from 645m to 1407m. At section TD the hole was circulated clean and was displaced to mud with a total of 1300bbls Seawater and PHG being pumped. The BHA was then POOH.



444.5mm (17.5") Hole Section 28th – 29th May 2008

Bit Run 3 Summary

Bit Number	4
Bit Size	17-½"
Bit Type	Hughes MZL-TIV
S/N	6064631
Jets	2x24, 1x15, 1x14
Depth In (m)	1407
Depth Out (m)	1947
Metres Drilled (m)	540
Drilling Hours	17.9
TBR (krevs)	112.6
Circulating Hours	43.9
Average ROP (m/hr)	30.2
API Condition	0-1-CT-GI-E-I-ER-TD

Drilling Parameters

WOB (klbs)	1	-	34
RPM	0	-	260
Torque (kft-lbs)	0	-	19
Flow In (gpm)	590	-	970
Pump Pressure (psi)	710	-	2950

Mud System

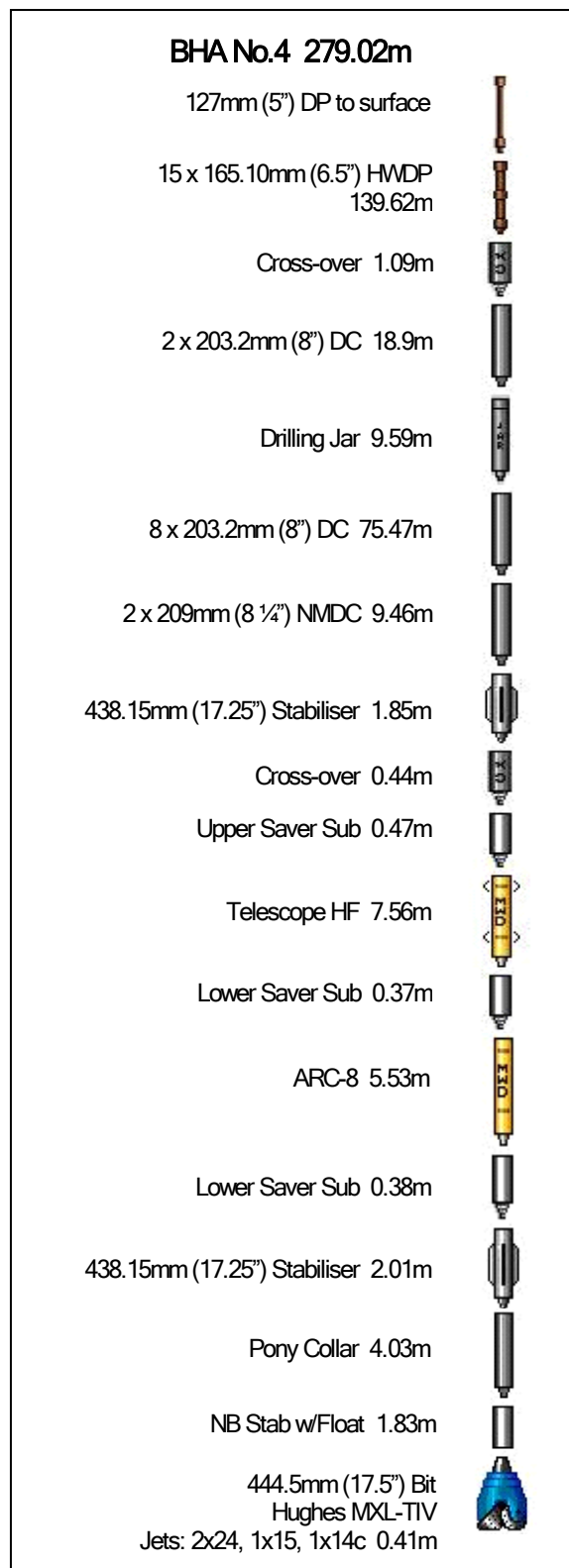
KGLY	1.08sg

Lithology

Claystone, Siltstone and Sandstone.

Drilling Summary

NB4 was run in the hole and drilled out the shoe track and 3m new formation was drilled from 1385m to 1410m with 9.0 ppg KGLY mud system. Bottoms up was circulated from 1410m at 1100 gpm/ 3000psi. An LOT was performed inside the shoe with 11.4ppg EMW. The 445mm (17.5") hole drilling commenced from 1410m to section TD at 1947m. No formation gas was monitored while drilling this hole. Surveys were taken after each connection and each stand was backreaming prior to connection. Flow rate was reduced (600-940 gpm) to minimize losses at the shakers. At TD, bottoms-up was circulated, a flow Check was performed and the hole was observed as static. The Drill string was pulled out of hole from bottom to 1803m, and a 25bbl slug was pumped. Another Flow Check was performed inside the shoe, again it was observed as static. The Drill string was then pulled out of hole to surface. At surface, the BHA was broken down and laid out. Then the 244mm (13-3/8") casing run was prepared for.



311mm (12 ¼") Hole Section 2nd June – 4th June 2008

Bit Run 5 Summary

Bit Number	NB5
Bit Size	311mm (12 ¼")
Bit Type	Hughes HC506ZX
S/N	7012701
Jets	6X16
Depth In, m	1947
Depth Out, m	3062
Meters Drilled	1115
Drilling Hours	28.5
TBR, krevs	334.8
Circulating Hours	49.2
Average ROP m/hr	39.12
API Condition	1-1-WT-S-X-I-NO-TD

Drilling Parameters

WOB (klbs)	1	-	36
RPM (Surf/Bit)	1/165	-	111/260
Torque (kft-lbs)	1	-	26
Flow In (gpm)	530	-	955
Pump Pressure (psi)	1840	-	4300

Mud System

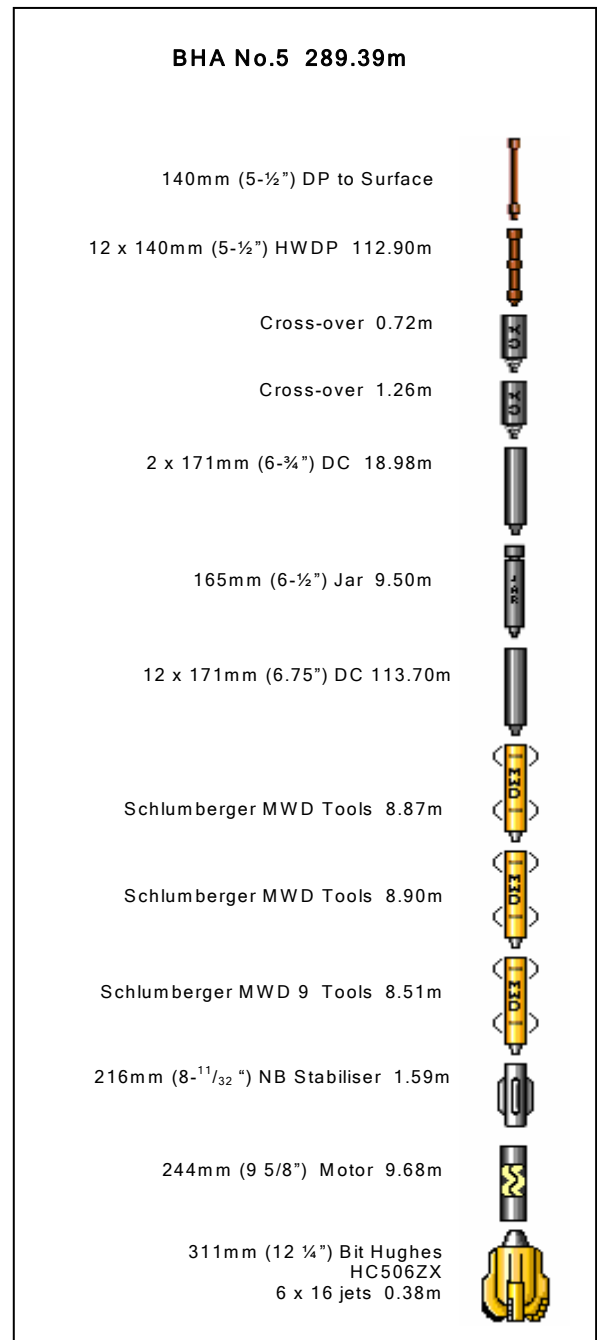
KGLY	1.25sg

Lithology

Claystone, Siltstone and sandstone

Drilling Summary

NB5 was made up to a motor, MWD assemblies and a 311mm (12 ¼") PDC bit. It was shallow tested before being run in the hole. Top of cement was tagged at 1931m. The cement, float, shoe track and 3m new formation was drilled out from 1931m to 1950m. Bottoms-up was circulated from 1950m. No gas was observed. An LOT was performed at 12.9ppg EMW before continuing to drill ahead. The 12 ¼" hole section was drilled smoothly until TD at 3062m. No significant formation gas was recorded. At TD, bottoms-up was circulated. A Flow Check was performed, it was observed as static. A 30bbl slug was pumped prior pulling out of hole. The drill string was pulled out of hole on elevator from bottom to the shoe at 1930m. A flow Check was performed, and it was observed as static. The BHA was pulled out of hole to surface. At surface, the BHA was laid out and racked back. MWD radioactive sources were loaded. A total of 34bbl mud loss was recorded for the 12 hour trip. The bit was graded and prepared to run in the hole for Schlumberger Wireline Logs.



2.2 Casing / Cementing Summary

Jarver – 1

762mm (30") Conductor Casing 17th May 2008

Hole Size 914mm (36")
Depth 645mMDRT

762mm (30") Conductor

1 x 762mm (30") Float shoe
1 x 762mm (30") Intermediate Joint
1 x 762mm (30") X-over Joint
1 x 762mm (30")

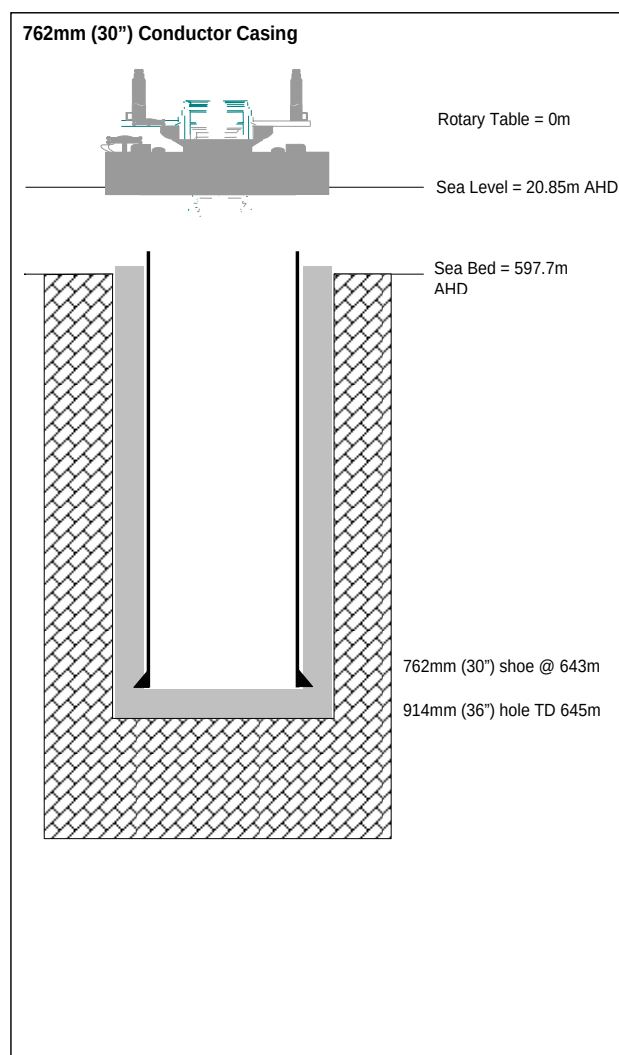
OD 762mm (30")
Grade X-52
Shoe Depth 642mMDRT

Cement Details:

Sacks: 250Sx
Type ABC / "G"
Mix water: 5.37gal/sx
Additives: CaCl 1% BWOC
Fluoroscience Dye 1kg
Weight: 1.90sg (15.8ppg)
Yield: 0.03m³/sx (1.17ft³/sx)
Volume: 32.11m³ (202bbls)

Summary

Four joints of 762mm (30") casing (SF60 shoe joint, intermediate joint and housing joint) were made up and run in the hole without difficulty on 140mm (5-1/2") drill pipe. The casing shoe was set at 642m. After circulating casing capacity, the cement job proceeded as follows: pumped 5 bbls seawater with dye, tested lines to 1700psi, pumped further 80 bbls seawater with dye. Mixed and pumped 202 bbls slurry, and displaced with seawater. Bled off pressure, floats held.



508mm (20") Casing 21st May – 22nd May 2008

Hole Size 660mm (26")
Depth 1407 mMDRT

508mm (20") Casing

1 x 508mm (20") Shoe C Joint
1 x 508mm (20") Float A
61 x 508mm (20") Casing Joints
1 x 508mm (20") X/O Joint
1 x 407.25mm (18 $\frac{3}{4}$ ") Hanger Joint

ID 475.69mm (18.728")
Grade X-56
Shoe Depth 1399 mMDRT

Cement Details:

Lead Slurry

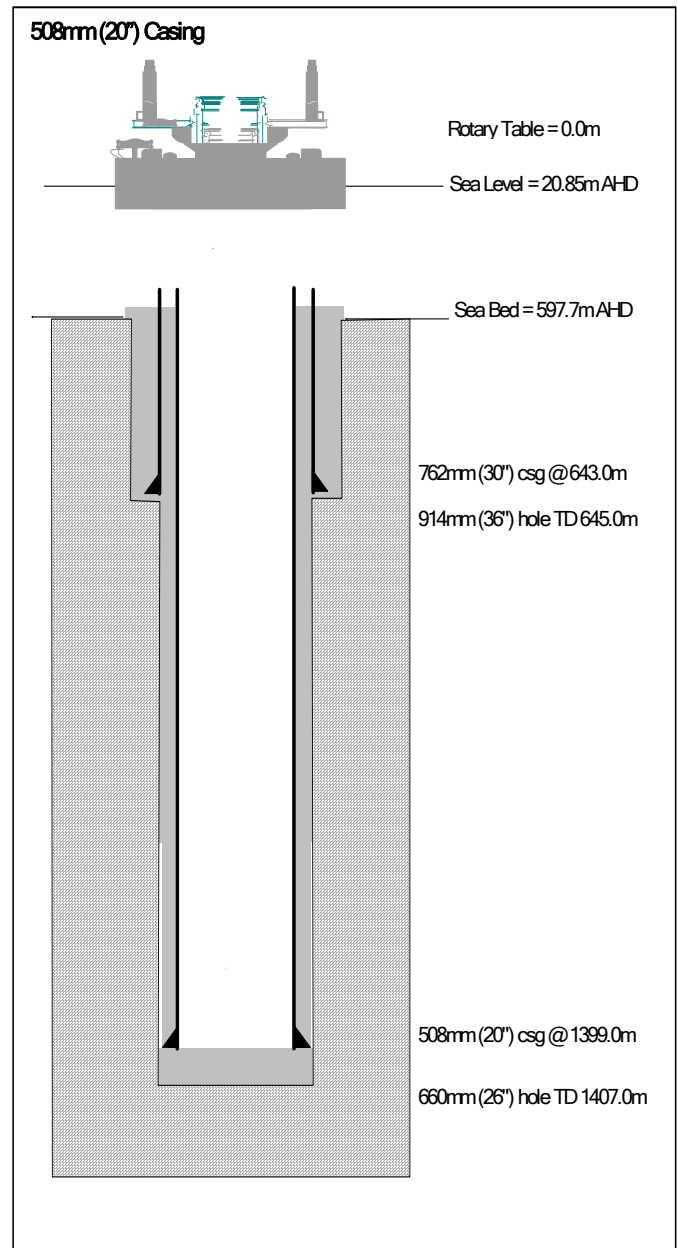
Sacks: 1345Sx
Type Class G
Mix water: 20.51m³ (503bbbls) Drill water
Additives:
DD47 0.03 gal/sx
D081 0.037 gal/sx
D075 0.5 gal/sx
Weight: 1.44sg (12.0ppg)
Yield: 0.07m³/sx (2.57ft³/sx)
Volume: 615bbbls

Tail Slurry

Sacks: 1137Sx
Type HTB
Mix water: 8.40m³ (174bbbls) Drill water
Additives:
D047 0.03 gal/sx
D168 0.22 gal/sx
D080 0.07 gal/sx
D081 0.03 gal/sx
Weight: 1.90sg (15.8ppg)
Yield: 0.04m³/sx (1.53ft³/sx)
Volume: 310bbbls

Summary

Sixty three joints of casing, including shoe, intermediate joints, float, were made up to drill pipe and run in. The casing shoe was set at 1399mRT. The cement job then proceeded as follows: pumped 5bbl drill water to flush the lines, tested lines to 3000psi, dropped bottom dart and pumped with 80bbl seawater, Mixed and pumped lead slurry, mixed and pumped tail slurry, dropped top dart. Pumped 40bbbls of sea water and confirmed top plug release. Pumped cement and drill water, changed over to rig pumps to finish displacement. Bumped plugs at 3150psi. Bled off pressure and checked floats held.



340mm (12 1/4") Casing 30th May – 31st May 2008

Hole Size 444.5mm (17.5")
Depth 1947 mMDRT

339.375mm (13.375") Casing

1 x 339.725mm (13.375") Shoe A
1 x 339.725mm (13.375") Inter Joint A
1 x 339.725mm (13.375") F/Collar A
109 x 339.725mm (13.375") Csg Joints
1 x 339.725mm (13.375") Csg Hanger Pup Joint
1 x 339.725mm (13.375") Csg Hanger

ID 317.30mm (12.492")
Grade L-80
Shoe Depth 1941.00 mMDRT

Cement Details:

Lead Slurry

Sacks: 816Sx
Type Class "G"
Mix water: 229.8bbls Drill water
Additives: D047 0.030gal/sx
D075 0.400gal/sx
D081 0.040gal/sx
Weight: 1.50sg (12.5ppg)
Yield: 2.12ft³/sx
Volume: 335bbls

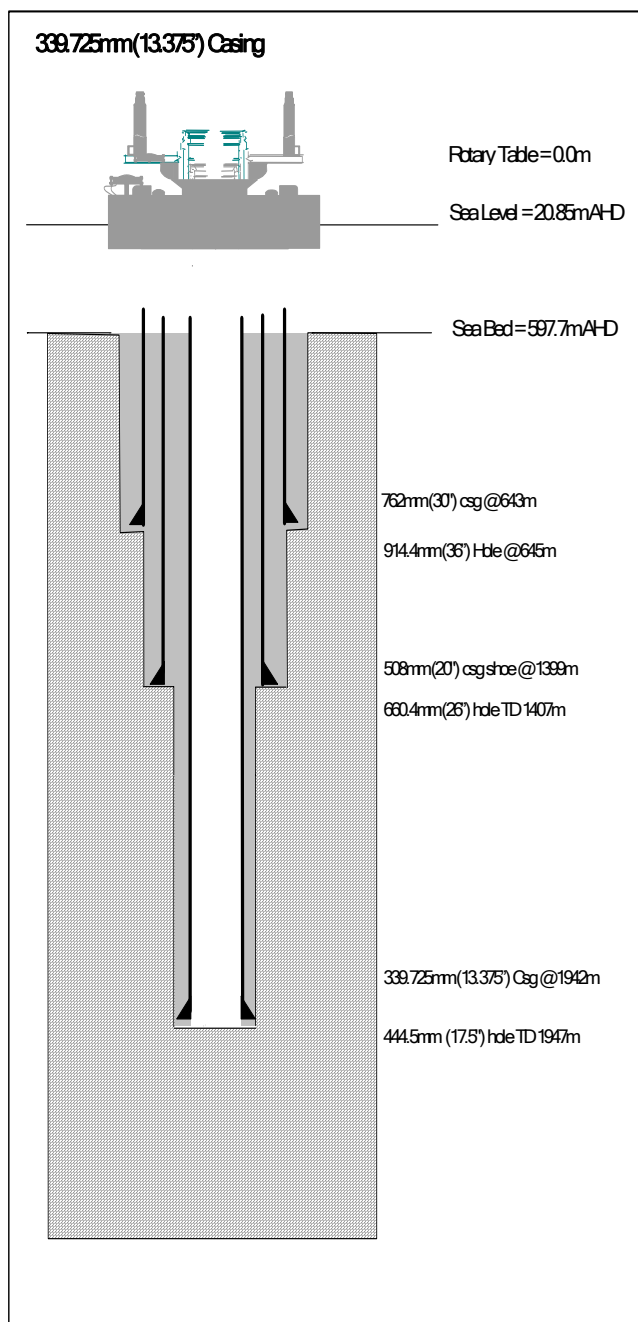
Tail Slurry

Sacks: 526Sx
Type Class "G"
Mix water: 67bbls Drill water
Additives: D047 0.030gal/sx
D193 0.400gal/sx
D145A 0.080gal/sx
D081 0.030gal/sx
Weight: 1.90sg (15.8ppg)
Yield: 1.19ft³/sx
Volume: 112bbls

Summary

109 joints of casing, including shoe, intermediate joints, float, were made up on drill pipe and run in. The casing shoe was set at 1941mRT. The cement job then proceeded as follows: pumped 50bbl lead spacer of drill water, followed by 335bbls of lead cement and 112bbls of tail cement. The rig pumps then took over pumping approx 650bbls to displace the cement from the casing, until the pump pressure built up to 942psi which signalled the plugs being bumped.

The cement was then left to harden and the drill string was POOH.



SECTION 3

GEOLOGY and SHOWS

3.1 Geology & Shows .

Jarver – 1

Jarver-1 was spudded on 16th May 2008. All depths in this section will be presented in measured depth from rotary table (mMDRT).

No samples were collected above 1407.0 mMDRT, until 20" (508mm) casing, as returns were diverted to the seabed.

Depth (mMDRT)	Sampling Interval (m)	No of Samples
1407 - 1947	10	54
1947 – 3062	6	185

The Lithological sequence intersected at Jarver-1 is described below.

DRILLED HOLE SECTIONS

26" (660mm) Hole section : Returns to seabed.

20" (508 mm) Hole section : Returns to shakers.

12-1/4" (311 mm) Hole section : Returns to shakers.

1407.0 to 1767.0 mMDRT

Interbedded SANDSTONE with minor SILTSTONE and CLAYSTONE.

CLAYSTONE: dark grey to grey, light grey in places, arenaceous, amorphous to soft, sticky, washable in places.

SILTSTONE: light to medium grey, medium brownish grey, very finely arenaceous, trace mica flakes, firm, blocky.

SANDSTONE: clear, translucent, common orange Fe stain, fine to medium grained, trace coarse grained, moderately sorted, sub angular to sub rounded, trace light grey silty matrix, minor mica flakes, rare orange and light green lithics, predominately loose quartz grains, good inferred porosity, no fluorescence.

GAS & ROP TABLE

DEPTH (mMDRT)	ROP (m/hr)	GAS (Unit)
1407-1767	20-58	No formation Gas Detected

1767.0 to 1993.0 mMDRT**Interbedded CLAYSTONE with minor SILTSTONE and SANDSTONE**

CLAYSTONE: as above, medium grey, medium to occasionally dark brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.

SANDSTONE: light grey, clear, translucent, fine to medium, trace coarse grained, fair sorting, sub angular to predominately sub rounded, minor to common light grey silty matrix in fine grained aggregates, medium to coarse grains are predominately loose, rare nodular pyrite, trace fine grained orange lithics, trace chert ?, poor visual and inferred porosity, no fluorescence.

SILTSTONE: medium grey, occasionally light to medium brownish grey, very finely arenaceous, argillaceous locally grading to silty CLAYSTONE, trace fine carbonaceous specks, trace muscovite flakes, soft, dispersive to sub blocky.

GAS & ROP TABLE

DEPTH (mMDRT)	ROP (m/hr)	GAS (Unit)
1767 – 1947	22-66	No formation Gas Detected

1993.0 - 2178.0 mMDRT:

SILTSTONE: medium grey, occasionally medium brownish grey, argillaceous with clay content easily washing from the sample, trace fine carbonaceous flecks, minor mica flakes, trace fine orange lithics, trace calcareous fragments, minor loose medium quartz grains, soft to friable, dispersive to blocky.

SANDSTONE: clear, translucent, occasionally with yellow Fe stain, very fine to medium grained, sub angular to sub rounded, poor to fair sorting, minor light brownish grey silty matrix, predominately quartz grains, poor inferred porosity, no fluorescence.

CLAYSTONE: medium grey, medium brownish grey, very finely arenaceous, grading to SILTSTONE, trace nodular and fine disseminated pyrite, trace mica, trace orange lithics, trace fine carbonaceous specks, soft / dispersive with clay content easily washing from the sample.

GAS & ROP TABLE

DEPTH (mMDRT)	ROP (m/hr)	GAS (Unit)
1993-2178	32-98	No formation Gas Detected

2178.0 - 2349.0 mMDRT

SILTSTONE: medium grey to medium dark grey, very finely arenaceous, argillaceous with clay content easily washed from samples, grading to silty CLAYSTONE, rare fine carbonaceous specks, trace micro mica, trace very fine lithics, trace nodular pyrite, soft to firm, dispersive to blocky. Samples at shale shakers are sticky / plastic.

SANDSTONE: white, very light grey, very fine to fine grained, moderately well sorted, sub angular to predominately sub rounded, abundant white – off white argillaceous matrix (rock flour?), trace fine carbonaceous specks, trace fine lithics, trace glauconite, soft to friable, poor visual porosity, no fluorescence.

GAS & ROP TABLE

DEPTH (mMDRT)	ROP (m/hr)	GAS (Unit)
2178 - 2349	23-89	No formation Gas Detected

2349.0 – 2952.0 mMDRT

CLAYSTONE: medium grey to medium dark grey, greenish grey, minor red brown, silty grading to argillaceous SILTSTONE, minor fine carbonaceous flecks, rare nodular pyrite, trace micro mica, minor fine grained glauconite, trace lithics, soft to firm, dispersive to blocky, occasionally sub fissile.

SILTSTONE: medium grey to medium dark grey, argillaceous grading to and inter-bedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.

SANDSTONE: very light brown, very light brownish grey, off white, very fine to fine grained, well sorted, sub angular to predominately sub rounded, weak calcareous cement, abundant off white argillaceous matrix, trace carbonaceous flecks, trace fine grained glauconite, firm to friable, very poor visual porosity, no fluorescence.

GAS & ROP TABLE

DEPTH (mMDRT)	ROP (m/hr)	GAS (Unit)
2349 – 2952	35-141	No formation Gas Detected

2952.0 - 3024.0 mMDRT

SANDSTONE: clear, translucent, off white, light to med grey, light brown , very fine to fine, occasionally medium grain, traces of coarse grain, moderate to well sorted, sub angular to sub rounded, silty matrix, traces of Pyrite, grading to SILTSTONE in places, predominantly loose Quartz grain, traces of red lithic, friable to moderately hard, hard in places, poor inferred visual porosity, no fluorescence.

SILTSTONE: medium grey to medium dark grey, argillaceous grading to and inter-bedded with CLAYSTONE, locally arenaceous grading to very fine SANDSTONE, minor fine carbonaceous specks and thin laminae, trace lithics, soft to firm, friable when grading to sandstone, dispersive to blocky.

CLAYSTONE: light grey to medium grey, occasional light brownish grey, light greenish grey, traces of fine carbonaceous specks , soft to dispersive, occasionally blocky.

GAS & ROP TABLE

DEPTH (mMDRT)	ROP (m/hr)	GAS (Unit)
2952 – 3024	9-73	No formation Gas Detected

3024.0 – 3062.0 mMDRT

SANDSTONE: (Basement ?) clear , translucent , occasionally with red stain, fine to medium grain, sub angular to sub rounded, no visual cement or matrix, rare nodular Pyrite, commonly red lithic, traces, green lithics, predominant to dispersive aggregate Quartz grain, hard, very hard fracture Quartz aggregate, tight inferred visual porosity, no fluorescence.

META SILTSTONE: white to very light grey, very light greenish grey, light pinkish grey, soft to firm, uniform blocky.

META SANDSTONE: (Basement ?) clear , translucent , occasionally with red stain, fine to medium grain, sub angular to sub rounded, no visual cement or matrix, rare nodular Pyrite, commonly red lithic, traces green lithic, predominant to dispersive aggregate Quartz grain, hard, very hard fracture Quartz aggregate, tight inferred visual porosity, no fluorescence.

GAS & ROP TABLE

DEPTH (mMDRT)	ROP (m/hr)	GAS (Unit)
3024 – 3062	35 – 79	No formation Gas Detected

3.2 Sampling Summary and Record of Distribution

Well: **JARVER 1**

Rig: **OCEAN PATRIOT**

From: **BHI Unit 86033**

TOTAL OF 10 BOXES

10 BIG BOXES

2 CARD BOARD BOXES (SAMPLEX TRAYS) (Set -5)

To be consigned to: Attn: Luke Faulkner
Santos Core Library C/- Santos RDC Lot 44
Ocean Steamers Rd
Port Adelaide
S.A

Items being shipped: Geological Samples

Date Shipped:

Method of Shipment: Boat

OPC2068

receipt of the goods documented on this manifest by signing below and faxing this manifest to Mr. Michael Giuliano

Senior Staff Operations Geologist Santos Ltd. 0418 821275, 08 8224 7673.

Consignee signature: _____ Date: _____

SAMPLING INTERVALS

SAMPLE MANIFEST

Cutting samples were collected at the following intervals for JARVER-1

DEPTH	SAMPLE INTERVAL
1407 m – 1947 m	10 m (54 Samples)
1947 m – 3062 m (T.D)	6 m (185 Samples)

Washed and Wet samples were collected in calico bags (Cotton bags) and packed in large packard boxes. Total 37 boxes in container no.OPC2068

BOX NO.	START DEPTH	END DEPTH
1	1410 m	1480 m
2	1480 m	1560 m
3	1560 m	1640 m
4	1640 m	1720 m
5	1720 m	1800 m
6	1800 m	1880 m
7	1880 m	1947 m
8	1947 m	1980 m
9	1980 m	2028 m
10	2028 m	2076 m
11	2076 m	2124 m
12	2124 m	2172 m
13	2172 m	2220 m
14	2220 m	2256 m
15	2256 m	2292 m
16	2292 m	2328 m
17	2328 m	2364 m
18	2364 m	2400 m
19	2400 m	2436 m
20	2436 m	2472 m
21	2472 m	2508 m
22	2508 m	2544 m
23	2544 m	2580 m
24	2580 m	2616 m
25	2616 m	2652 m
26	2652 m	2688 m
27	2688 m	2724 m
28	2724 m	2760 m
29	2760 m	2796 m
30	2796 m	2832 m
31	2832 m	2868 m
32	2868 m	2904 m

33	2904 m	2940 m
34	2940 m	2976 m
35	2976 m	3012 m
36	3012 m	3048 m
37	3048 m	3062 m (T.D)



: +61894550147

DATE : 6 JUNE 08

Date : _____

SECTION 4

PRESSURE EVALUATION

4.1 Pore Pressure Evaluation

Baker Hughes INTEQ formation pressure evaluation services commenced at the 311mm (12 ¼”) section of Jarver-1, at 1947m. An average seawater density of 1.03sg was assumed as the normal saline pressure gradient for all calculations for Jarver-1. Using real time data, such as the hydrocarbon gas trend, lithology, flow line temperature, corrected Drilling Exponent (Dxc) data, drilling fluid parameters, pore pressure estimates were made during the drilling of the well. For more details, please refer to Appendix 3, "Pressure Evaluation Plot".

The following brief description of the Dxc is an extraction from Baker Hughes INTEQ manual; **Formation Pressure Evaluation Pore Pressure Evaluation Techniques**. Please refer to it for further clarification.

Bingham (1965) proposed a relationship between penetration rate, weight on bit, rotary speed, and bit diameter, Jorden and Shirley (1966) solved the equation and allowed a constant, “a”, to be unity, but made the d-exponent lithology specific. In a constant lithology, the d-exponent should increase as the depth, compaction and differential pressure across the bottom increase. Upon penetration of a geopressured zone, compaction and differential pressure will decrease and will be reflected by a decrease in the d-exponent

Since differential pressure is dependent upon the mud density as well as formation pore pressure, Rehm and McClendon (1971) proposed a correction for this, hence the Dxc (**Equation 4-12**)

$$Dxc = [\log (R/60N) / \log (12W/10^3B)] \times [N.FBG/ECD]$$

Where,

Dxc = corrected d-exponent (dimensionless)

R = rate of penetration (ft/hr)

N = rotary speed (rpm)

B = hole diameter (inches)

N.FBG = normal formation balance gradient (ppg)

ECD = effective circulating density (ppg)

W = weight on bit (1000 lbs)

Factors not considered by the Dxc in its basic form are drilling hydraulics, tooth efficiency (tooth wear and change in bit type) and lithology variation (matrix strength). If differential pressure becomes too large, the simple ratio correction will not completely compensate for its effect on the drill rate. In addition, the relationships among force applied (W/B), rotary speed (N), differential pressure (N.FBG/ECD), and rate of penetration (R) are more complex than the Dxc formulation would imply. While working within “normal” working ranges, radical changes in any of these parameters (for example, change in hole size after setting casing) may result in a change in the Dxc. 80824 Rev B /January 1996 Confidential

Whilst sliding with a down hole motor, bit RPM values are calculated from the flow rates used, as specified by the manufacturer. And in high angle deviated holes, the translation of the weight onto the bit may not be very exact, thus affecting the Dxc.

311mm (12 ¼”) Hole Section

This section was started with mud weight 1.25sg with background gas of less than 0.01unit with no gas peaks. This section continued to be drilled in thick homogeneous thick claystone until 2103mTVD / 2103mMD, showing a steady trend until the target section. There was no showing the increasing of mud weight until the TD section. The trend line of DXC shifted parallel with the normal compaction trend line shows that there is not any change in the pore pressure until TD section at 3062mTVD / 3062mMD. In addition, there were not any formation gases observed while drilling this section. With all above indications, the pore pressure of Jarver-1 is estimated to be a normal pressure gradient with a range from 1.24 to 1.25sg.

4.2 Fracture Pressure Evaluation

Fracture pressure estimation for Jarver-1 was made using the Baker Hughes INTEQ zero tensile strength method. For a full explanation of this method, refer to INTEQ Manual MS-156 "The Theory and Evaluation of Formation Pressures".

This data was used to provide the basis of a fracture pressure prediction using Daines' minimum tensile strength method. The model has the capacity to resolve and extrapolate the local principle stress regime, subsequent to the first fracture in a compact formation. For further information, please refer to the **Formation Pressure Evaluation Pore Pressure Evaluation Techniques**.

Daines' technique calculates the fracture pressures employing the following equation:

$$P_f = \{(S - P_p) * \{u/1-u\}\} + \{(S - P_p) * B\} + P_p$$

Where

P_f = Fracture pressure (psi)

P_p = Pore pressure (psi)

S = Overburden pressure (psi)

u = Poisson's ratio (unitless)

B = Effective stress ratio

The Poisson's ratio was derived by comparing the formation type drilled with a list of established values. The effective stress ratio "Beta" was calculated from the results of leak off tests where the fracture gradient is actually measured. Once the ratio had been derived the result was used over the following hole section to calculate the fracture pressure using overburden pressure, estimated pore pressure and Poisson's ratio for each lithology.

It must however be stressed that this method of fracture pressure calculation relies heavily upon the formation being pressured up to the point of fracture. The use in the equation of data from formation integrity tests (in which the formation is pressured to a predetermined point and no further) rather than a full leak off test will underestimate subsequent fracture pressures.

444.5mm (17-½") Hole Section

A Leak-Off Test was performed below the 508mm (20") shoe at 1399m. The mud system used was water based mud weighted from 1.08sg. It can be inferred that formation strengths for this section were not exceeded by the Equivalent Circulating Density (ECD). No mud losses were encountered from the shoe until 1947m.

Casing Depth	Casing Size		Hole Size		Test Mud Density	LOT EMW	Test type
mDRT	in	mm	in	mm	(ppg)	(ppg)	
1399	20"	508	26	660	9.0	11.4	LOT

311mm (12 ¼") Hole Section

A Leak-Off Test was performed below the 340mm (13 3/8") shoe at 1942m. The mud system used was water based mud weighted from 1.25sg. It can be inferred that formation strengths for this section were not exceeded by the Equivalent Circulating Density (ECD). No mud losses were encountered from the shoe until 3062m.

Casing Depth	Casing Size		Hole Size		Test Mud Density	LOT <i>EMW</i>	Test type
mRT	in	mm	in	mm	(ppg)	(ppg)	
1942	13 3/8	340	12 1/4	311	10.4	12.9	LOT

TABLES

Table 1: Bit Run Summary

Tables

BIT SUMMARY																																											
OPERATOR Santos Ltd						WELL NAME Jarver - 1						LOCATION T/33P						CONTRACTOR Diamond Offshore General Company								RIG Ocean Patriot																	
BAKER HUGHES INTEQ Santos				Mud Pump Data All Sections 165mm (6.0") Liners, 105mm (12") Stroke 97% Eff 0.1018bbl/stk				BIT DULL CHARACTERISTICS														REASONS PULLED																					
								BC - Broken Cone				CI - Cone Interference				JD - Junk Damage				PB - Pinched Bit				SS - Self Sharpening				BAK - Bottomhole Assembly				LOG - Run Logs				FM - Formation Change				TD - Total / Cig depth			
								BT - Broken Teeth				CR - Cored				LC - Lost Cone				PN - Plugged Nozzle				TR - Tracking				DAF - Downhole Motor failure				RIG - Rig repair				HP - Hole Problems				TQ - Torque			
								BU - Balled Up				CT - Chipped Teeth				LN - Lost Nozzle				RG - Rounded Gauge				WO - Washed-Out Bit				DSP - Drill String failure				CM - Condition Mud				HR - Hours				TW - Twist-Off			
								CC - Cracked Cone				FC - Flat Crested Wear				LT - Lost Teeth				RO - Ring Out				WT - Worn Teeth				DST - Drill Stem Test				CP - Core Point				PP - Pump Pressure				WC - Weather Conditions			
								CD - Cone Dragged				HC - Heat Checking				OC - Off-Center Wear				SD - Shirltail Damage				NO - No Dull Characs.				DTP - Downhole Tool Failure				DP - Drill Plug				PR - Penetration rate				WO - Washout - Drill String			
BHA #	BIT No.	MAKE	TYPE	TFA sq.in.	JETS	SERIAL No.	DEPTH IN m	METRES ON BIT	HRS ON BOTTOM	AV ROP m/hr	IADC HRS	WOB klb	RPM Surf/Bit	TBR krev	SPP psi	FLOW IN gpm	TQ kft-lb	GRADE										MW SG	REMARKS														
																		I	O	D	L	B	G	O	R																		
Jarver - 1																																											
914mm (36") Hole Section 598m - 645m																																											
1	NB1	Varel	111	3.1416	4x32	742636	598.0	47.0	5.1	9.2	5.10	4	88 / -	25.1	450	550	2.80	0	0	NO	A	0	I	NO	TD	SW (1.04)	Drill with 36" hole opener																
660mm (26") Hole Section 645m - 1407m																																											
2	NB2	Smith	Mill	1.7671	4 x 24	MZ6452	645.0	402.0	23.2	32.8	23.20	12	120 / -	165.5	2478	1120	7.60	1	1	WT	A	0	I	NO	TD	SW (1.04)	Drill with 26" hole section																
444mm (17-1/2") Hole Section 1407 - 1947m																																											
4	NB4	Hughes	MXL-TIV	1.2065	2x24, 1x15, 1x14	6064631	1407.0	540.0	17.9	30.2	23.00	1-34	0-260/ 0-260	112.6	710-2950	590-970	0-19	0	1	CT	G1	E	I	ER	TD	KGLY (1.08)	Drill with 17.5" hole section																
311mm (12 1/4") Hole Section 1407 - 1947m																																											
4	NB5	Hughes	HC506ZX	1.1785	6X16	7012701	1947.0	1114.8	28.5	39.1	46.00	1-36	1-165/ 111-262	334.8	1840-4300	530-955	1-26	1	1	WT	S	X	I	NO	TD	KGLY (1.25)	Drill with 12.25" hole section																

NOTE: Bit run number = BHA number ; NB = New Bit RB = Rerun Bit PDM = Downhole Motor A = Adjustable Gauge Stabilizer M = FEWD / MWD tools

Table 2: Bit Hydraulics Summary

Tables

 BAKER HUGHES INTEQ Bit Hydraulics Summary 																				
Operator Santos Ltd						Well Name Jarver - 1				Location T/33P		Drilling Contractor Diamond Offshore General Com					Rig Ocean Patriot			
Drillstring Abbreviations									S In-String Steering Collar			Hydraulics Models Power Law Model used for drilling with Mud Bingham Model used for coring and drilling with seawater								
N Normal M MWD									T TRACS Tool C Core											
P Positive Displacement Motor A Adjustable Gauge Stabilizer																				
Bit No.	Depth MD (m)	Hole Size mm	Jets x 1/32"	Drill String Type	Mud Type	Mud Density sg	PV	YP	Flow Rate gpm	Jet Vel m/sec	Impact Force lb/in2	Power/ Area HP/in2	Bit Loss psi	Bit Loss %	Pipe Loss psi	ECD sg	Annular Velocities			
																	DP OH m/min	DC OH m/min	DC Critical m/sec	
Jarver - 1																				
914mm (36") Hole Section 598m - 645m																				
NB1	645.0	914	4 x 32	N	SW, Hi-Vis Sweeps	1.03	17	68.0	450	27.1	0.10	0.02	5	0.91	100	1.05	N/A	2.9	N/A	
660mm (26") Hole Section 645m - 1407m																				
NB2	1407.0	660	4 x 24	N	SW, Hi-Vis Sweeps	1.05	16	74.0	1200	66.4	5.40	0.43	322	11.23	765	1.42	13.8	14.6	0.3	
444mm (17-½") Hole Section 1407m - 1947m																				
NB4	1947.0	444	2x24, 1x15, 1x14c	N	KGLY	1.08	15	30.0	835	67.8	3.60	0.72	349	16.90	662	1.15	22.2	25.8	0.4	
311mm (12 ¼") Hole Section 1947m- 3062m																				
NB5	3062.0	311	6x16	N	KGLY	1.25	14	28.0	900	75.7	10.10	2.19	485	11.41	3390	1.28	54.8	78.1	1.3	



Santos

INTEQ LOG SUITE

Formation Evaluation
Drilling Data Plot

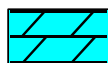
ABBREVIATIONS

NB	New Bit	MD	Measured Depth
RR	Rerun Bit	GPM	Gallons per Min
CB	Core Bit	PP	Pump Pressure
WOB	Weight on Bit	MW	Mud Weight sg
RPM	Revs per Minute	FV	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
FCG	Flow Check Gas	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
BG	Background Gas	Sol	Solids %
WTG	Wiper Trip Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
POG	Pumps Off Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity
SWG	Swab Gas	TVD	True Vertical Depth

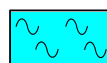
LITHOLOGY SYMBOLS



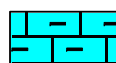
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Ls



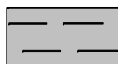
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Dol



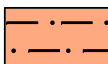
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Mrl



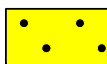
Argillaceous
Limestone
Arg Lst



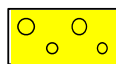
Claystone
Clyst



Siltstone
Sltst



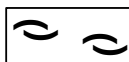
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Sst



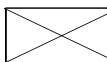
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Cgl



Coal
C



Fossil
Fragments
FF



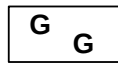
No Returns
NR



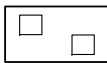
Cement
Cmt



Volcanics
Volc



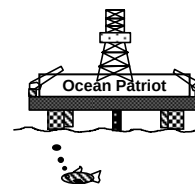
Glauconite
Glauc



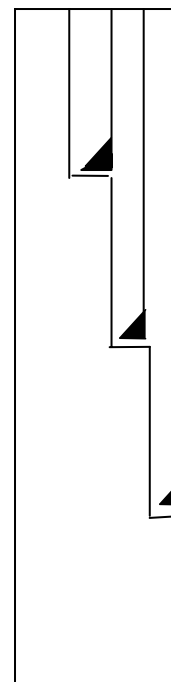
Pyrite
Pyr



Chert
Cht



RT- AHD 20.85m
W Depth 576.85m AHD



Seabed @ 597.7mRT

Returns to Seafloor
Seawater and hi-vis sweeps

762mm (30") csg set @ 643mRT
914mm (36") hole to 645mRT

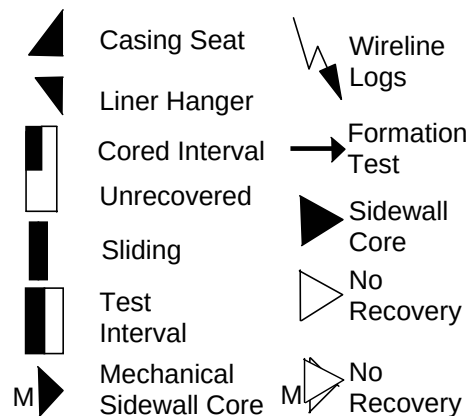
Returns to Seafloor
Seawater and hi-vis sweeps

508mm (20") csg set @ 1399mRT
660mm (26") hole to 1407mRT

340mm (13.375") csg set @ 1942mRT
445mm (17.5") hole to 1947mRT

311mm (12.25") hole to 3062mTD

Drilling Fluid: Water based



Company	Santos Ltd
Well	Jarver 1
Permit	T/33P
Region	North West Coast of Tasmania
Designation	Exploration Vertical
Coordinates	Lat: 41° 20' 27.251" S Long: 144° 14' 03.19" E
Ref Elevation	RT-AHD 20.85m
Total Depth	3062.00mMDRT
Contractor	Diamond Offshore Gen. Co.
Rig	Ocean Patriot
Type	Semi-submersible
LOG INTERVAL Depth	598m to 3062mMDRT
Date	16 th May 2008– 4 th June 2008
Scale	1 : 500
Data Engineers	Mathew Rae, Subhash Sukumaran
Logging Geologists	Dibyendu Dhar, Rahul Richharia
Sample Catchers	David Formaggin, Chris Decoster

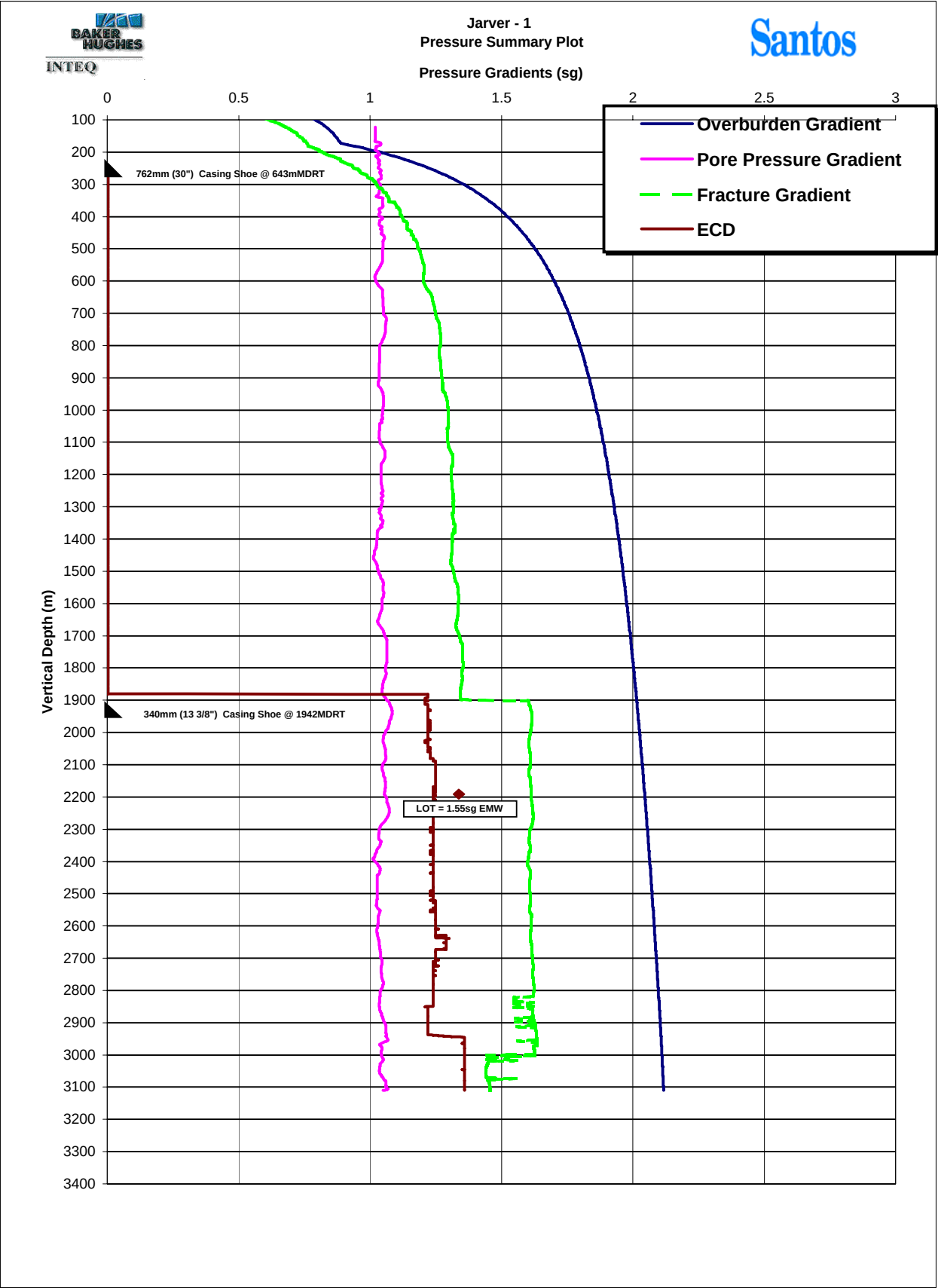
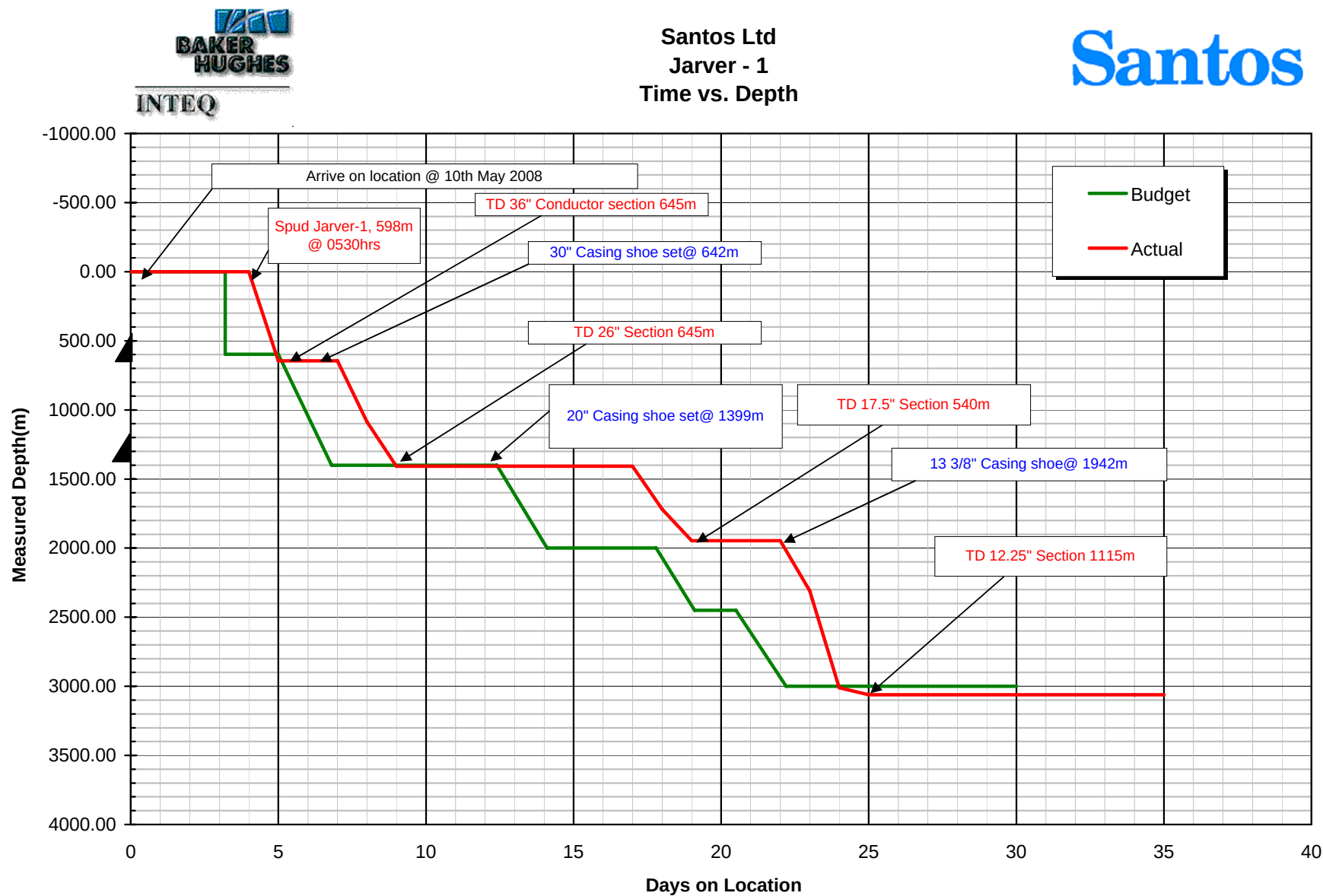


Table 5: Time vs Depth Curve

Tables



APPENDICES

Appendix - A

FORMATION EVALUATION LOG

Appendix - B

DRILLING DATA PLOT

Appendix - C

DRILLING DATA PRESSURE PLOT

Appendix - D

GAS RATIO PLOT

SECTION 12 : RIG POSITIONING REPORT

Fugro Job Number 08008
Job Name Rig Move from Basker-6 to Jarver-1
Fugro Personnel G. Marshall - Party Chief/Surveyor
E. Todd - Surveyor
C. Tidey - Trainee Surveyor
Client Name SANTOS Ltd
Client Representative L. Pilcher
Sampling Started 17 May 2008 7:24:15 AM UTC
Sampling Ended 17 May 2008 8:45:38 PM UTC
Output File Name "138 20 45 38.pdf"

Ocean Patriot At West Coast Tasmania - Final DGPS Position Fix Summary for CRP

CRP Offset From CRP

Starboard 0.000 m
Forward 0.000 m
Up 0.000 m

Geodetic Datum GDA94-ITRF2008.50

Latitude 41°20'27.2515"S
Longitude 144°14'03.1903"E

Projection Universal Transverse Mercator Zone: 54

Easting 770615.074 m
Northing 5418350.393 m

Final Rig Heading 44.68 °T (Convergence 2.14° Aust/NZ)

Gyro C-O 0.14 °

CRP Position is 8.56 m on a bearing of 205.16 °T (207.30 °G) FROM intended location

Intended Offset / Well Location

Geodetic Datum GDA94-ITRF2008.50

Latitude 41°20'27.0004"S
Longitude 144°14'03.3467"E

Projection Universal Transverse Mercator Zone: 54

Easting 770619.000 m
Northing 5418358.000 m

Intended Rig Heading 45±0.00 °T

Team Leader / Surveyor: E. Todd

Client Representative : L. Pilcher

Geodetic Parameters

Geodetic Datum	GDA94-ITRF2008.50		
Spheroid	GRS80		
Semi-Major Axis	6378137.000		
Inverse Flattening	298.2572221010		
Eccentricity^2	0.006694380022901		
DX	0.0174m	RX	0.0176 arc seconds
DY	-0.0484m	RY	0.0151 arc seconds
DZ	-0.1035m	RZ	0.0182 arc seconds
D Scale	0.0034ppm		
Rotation Convention	+RZ=-RLongitude		
Projection	Universal Transverse Mercator Zone: 54		
Grid Name	MGA		
Latitude of Origin	0°00'00.0000"N		
Longitude of Origin	141°00'00.0000"E		
False Easting	500000.000m		
False Northing	10000000.000m		
Convergence	2°08'16.0729"		

Final Primary Antenna Position (NMEA GPS 1.GGA)

23873 observations used out of a total of 23874

Primary Antenna Offset from CRP

Starboard	-9.020 m
Forward	44.010 m
Up	27.000 m

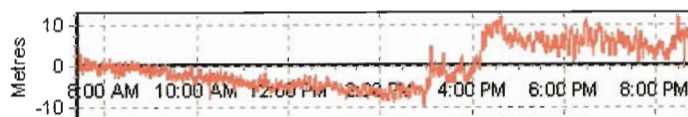
Mean

Geodetic Datum	WGS84
Latitude	41°20'26.0061"S
Longitude	144°14'04.2569"E
Spheroidal Ht	20.26 m
Geodetic Datum	GDA94-ITRF2008.50
Latitude	41°20'26.0321"S
Longitude	144°14'04.2448"E
Spheroidal Ht	20.32 m
Projection	Universal Transverse Mercator Zone: 54
Easting	770640.990 m
Northing	5418387.089 m
HDOP	1.22
Heading	44.68 °T
Age Of Corrections	10.4 s
Satellites	8

Standard Deviation

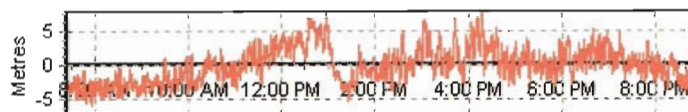
Latitude or Northing	4.95 m
Longitude or Easting	2.49 m
Spheroidal Height	0.49 m
HDOP	0.46
Heading	0.27 °T

Primary (NMEA GPS 1.GGA) - Delta Latitude



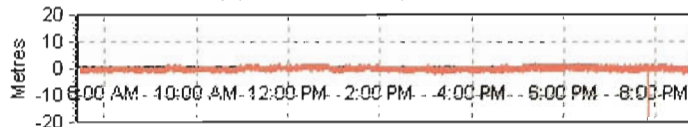
Time (UTC)

Primary (NMEA GPS 1.GGA) - Delta Longitude



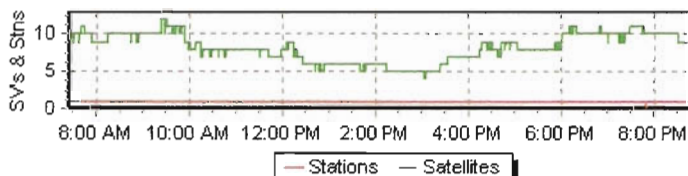
Time (UTC)

Primary (NMEA GPS 1.GGA) - Delta Height

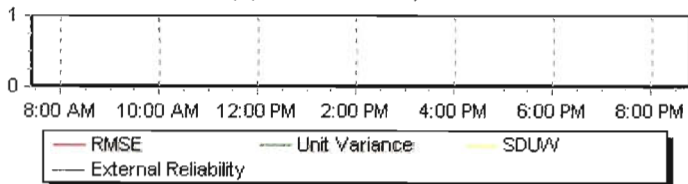


Time (UTC)

Primary (NMEA GPS 1.GGA) - Satellites & Stations



Primary (NMEA GPS 1.GGA) - Qualities



Delta Easting (m) V's Delta Northing (m)



Gould

70

Final Secondary Antenna Position (NMEA GPS 2.GGA)
24042 observations used out of a total of 24042

Secondary Antenna Offset from CRP

Starboard -9.750 m
Forward 42.010 m
Up 27.000 m

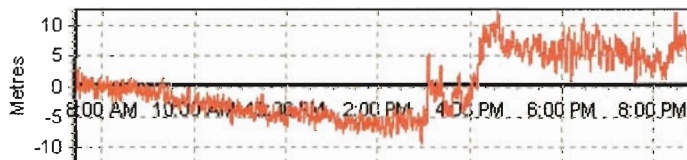
Mean

Geodetic Datum	WGS84
Latitude	41°20'26.0410"S
Longitude	144°14'04.1760"E
Spheroidal Ht	20.34 m
Geodetic Datum	GDA94-ITRF2008.50
Latitude	41°20'26.0669"S
Longitude	144°14'04.1639"E
Spheroidal Ht	20.40 m
Projection	Universal Transverse Mercator Zone: 54
Easting	770639.070 m
Northing	5418386.086 m
HDOP	1.22
Age Of Corrections	12.3 s
Satellites	8

Standard Deviation

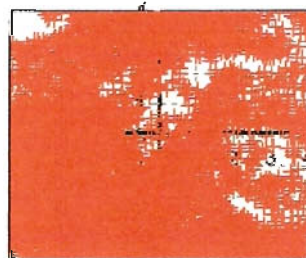
Latitude or Northing	4.94 m
Longitude or Easting	2.51 m
Spheroidal Height	0.80 m
HDOP	0.45

Secondary (NMEA GPS 2.GGA) - Delta Latitude

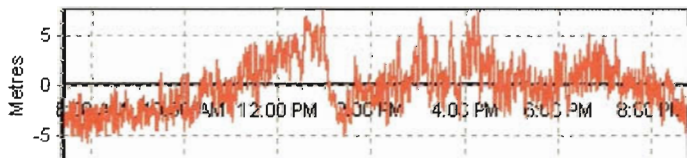


Time (UTC)

Delta Easting (m) V's Delta Northing (m)

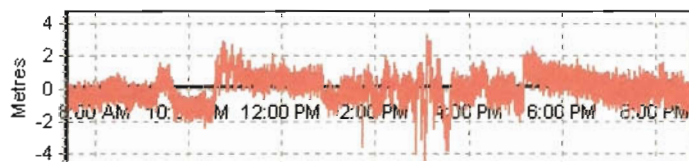


Secondary (NMEA GPS 2.GGA) - Delta Longitude



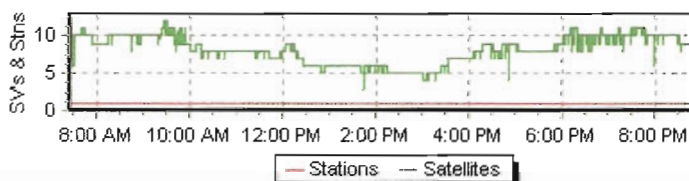
Time (UTC)

Secondary (NMEA GPS 2.GGA) - Delta Height

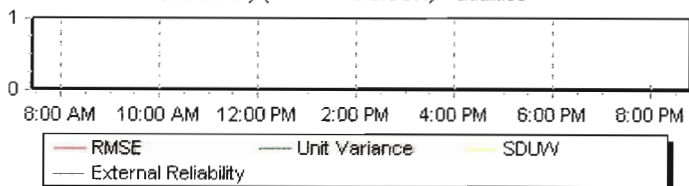


Time (UTC)

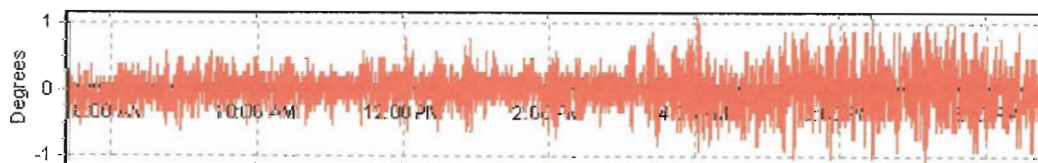
Secondary (NMEA GPS 2.GGA) - Satellites & Stations



Secondary (NMEA GPS 2.GGA) - Qualities



TSS Meridian.HDT - Delta Heading

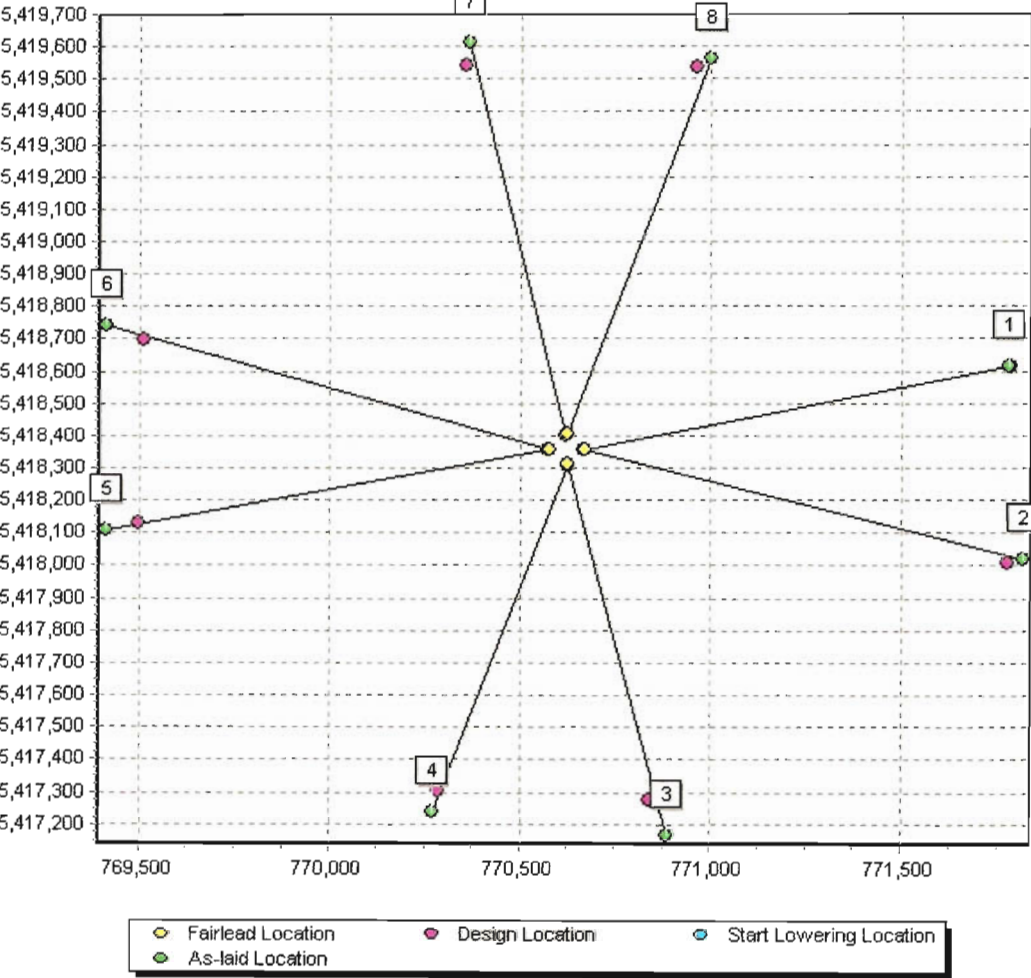


Time (UTC)

Anchors of Ocean Patriot

Fairlead	Status	Universal Transverse Mercator Zone: 54			
1	Laid	41°20'17.2517"S	144°14'53.1853"E	(Design)	
		771788.798 m	5418615.355 m		
2	Laid	41°20'36.9745"S	144°14'53.7868"E	(Design)	
		771779.974 m	5418006.499 m		
3	Laid	41°21'01.7507"S	144°14'14.4680"E	(Design)	
		770837.471 m	5417276.504 m		
4	Laid	41°21'01.6375"S	144°13'50.6238"E	(Design)	
		770283.412 m	5417300.684 m		
5	Laid	41°20'35.6959"S	144°13'15.4787"E	(Design)	
		769496.312 m	5418131.244 m		
6	Laid	41°20'17.2801"S	144°13'15.2574"E	(Design)	
		769512.281 m	5418699.455 m		
7	Laid	41°19'49.0589"S	144°13'50.2108"E	(Design)	
		770357.275 m	5419539.664 m		
8	Laid	41°19'48.4921"S	144°14'16.2428"E	(Design)	
		770963.155 m	5419534.559 m		
1		41°20'17.2866"S	144°14'53.0452"E	(As-Laid)	
		771785.500 m	5418614.400 m		
		3.434 m @	73°50'48.5199"	(TO design:Grid)	
2		41°20'36.4272"S	144°14'55.5976"E	(As-Laid)	
		771822.700 m	5418021.800 m		
		45.383 m @	250°17'46.3073"	(TO design:Grid)	
3		41°21'05.2961"S	144°14'16.8265"E	(As-Laid)	
		770888.200 m	5417165.100 m		
		122.410 m @	335°31'01.7920"	(TO design:Grid)	
4		41°21'03.6918"S	144°13'50.1872"E	(As-Laid)	
		770270.900 m	5417237.700 m		
		64.215 m @	11°14'07.5553"	(TO design:Grid)	
5		41°20'36.6383"S	144°13'11.9797"E	(As-Laid)	
		769413.900 m	5418105.200 m		
		86.430 m @	72°27'45.2876"	(TO design:Grid)	
6		41°20'16.0612"S	144°13'10.8017"E	(As-Laid)	
		769410.100 m	5418740.900 m		
		110.267 m @	112°04'39.8720"	(TO design:Grid)	
7		41°19'46.7119"S	144°13'50.3882"E	(As-Laid)	
		770364.100 m	5419611.900 m		
		72.557 m @	185°23'50.5094"	(TO design:Grid)	
8		41°19'47.5613"S	144°14'17.7040"E	(As-Laid)	
		770998.200 m	5419562.000 m		
		44.510 m @	231°56'17.5221"	(TO design:Grid)	

Anchor Positions



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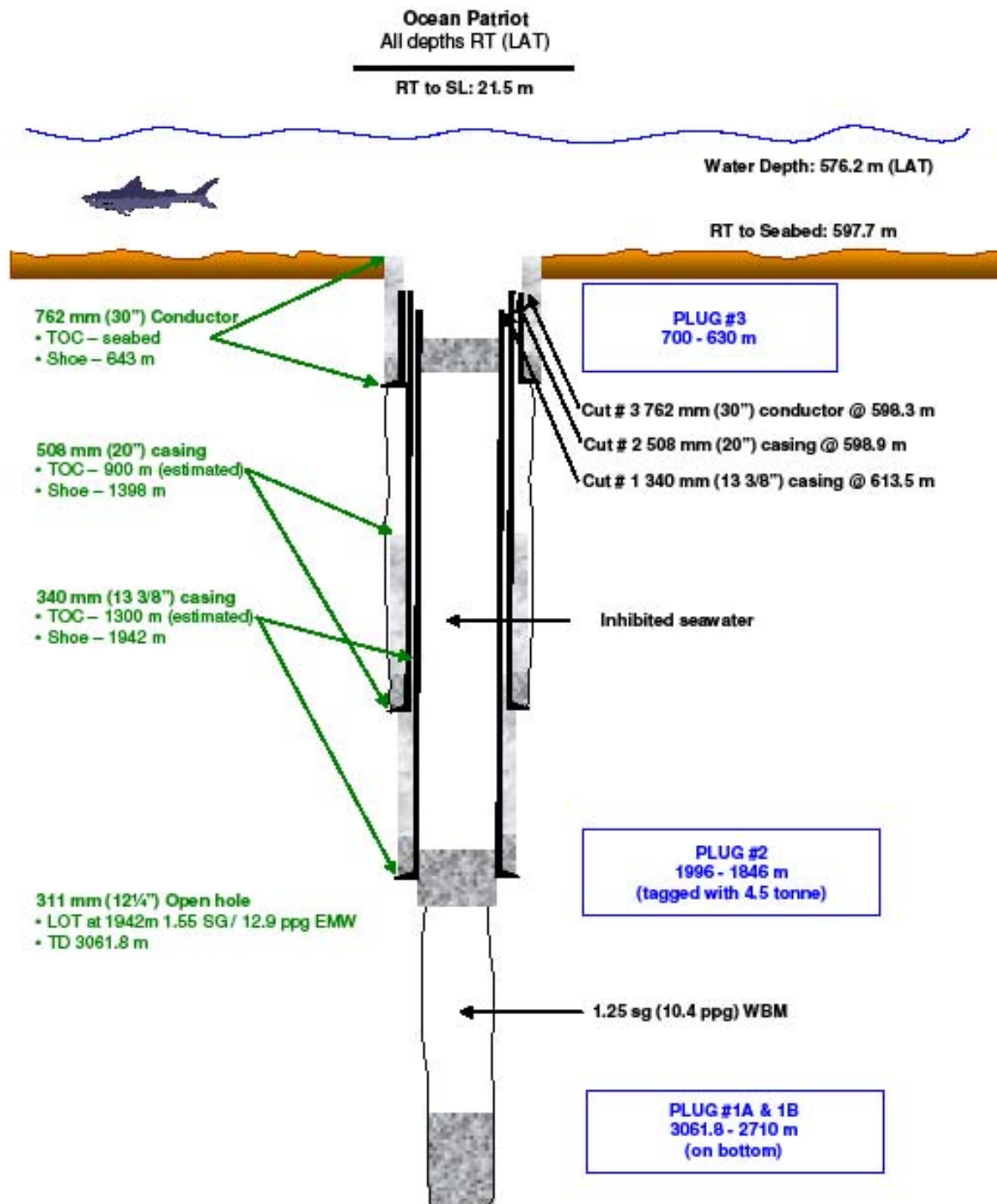
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SECTION 13 : COMPLETION REPORT

Jarver 1 was Plugged and Abandoned.

WELL COMPLETION

JARVER-1 – WELL SCHEMATIC ACTUAL



SECTION 14: DEVIATION SUMMARY

Surveys and schematics are presented overleaf.



Jarver-1 Survey Report

Report Date: June 4, 2008	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Santos	Vertical Section Azimuth: 112.200°
Field: Santos/Jarver	Vertical Section Origin: N 0.000 m, E 0.000 m
Structure / Slot: Jarver-1 / Jarver 1	TVD Reference Datum: RKB
Well: Jarver-1	TVD Reference Elevation: 20.85 m relative to Australian Height Datum
Borehole: Jarver 1	Sea Bed / Ground Level Elevation: -575.850 m relative to Australian Height Datum
UWI/API#: Well-807506	Magnetic Declination: 12.453°
Survey Name / Date: Jarver-1 Surveys / May 25, 2008	Total Field Strength: 61813.677 nT
Tort / AHD / DDI / ERD ratio: 22.332° / 20.77 m / 3.182 / 0.007	Magnetic Dip: -71.862°
Grid Coordinate System: GDA94/MGA94 Zone 54	Declination Date: May 25, 2008
Location Lat/Long: S 41 20 27.251, E 144 14 3.191	Magnetic Declination Model: BGGM 2007
Location Grid N/E Y/X: N 5418350.400 m, E 770615.100 m	North Reference: Grid North
Grid Convergence Angle: -2.13761870°	Total Corr Mag North -> Grid North: +14.591°
Grid Scale Factor: 1.00050136	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (m)	Inclination (deg)	Azimuth (deg)	TVD (m)	Vertical Section (m)	NS (m)	EW (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5418350.40	770615.10	S 41 20 27.251	E 144 14 3.191
	625.22	0.78	111.45	625.20	4.26	-1.56	3.96	0.04	5418348.84	770619.06	S 41 20 27.297	E 144 14 3.364
	653.95	0.79	307.22	653.93	4.26	-1.51	3.99	1.62	5418348.89	770619.09	S 41 20 27.295	E 144 14 3.365
	682.81	0.66	70.44	682.79	4.19	-1.33	3.98	1.33	5418349.07	770619.09	S 41 20 27.290	E 144 14 3.365
	711.59	0.76	163.99	711.57	4.43	-1.46	4.19	1.08	5418348.94	770619.29	S 41 20 27.293	E 144 14 3.374
	769.05	0.69	31.48	769.03	4.72	-1.53	4.48	0.69	5418348.87	770619.58	S 41 20 27.295	E 144 14 3.386
	797.65	0.62	126.90	797.62	4.90	-1.48	4.69	1.02	5418348.92	770619.79	S 41 20 27.293	E 144 14 3.395
	826.52	1.42	110.88	826.49	5.41	-1.70	5.15	0.87	5418348.70	770620.25	S 41 20 27.300	E 144 14 3.416
	855.24	1.18	327.80	855.21	5.53	-1.58	5.33	2.58	5418348.82	770620.43	S 41 20 27.296	E 144 14 3.423
	884.16	0.61	113.14	884.12	5.44	-1.38	5.31	1.78	5418349.02	770620.41	S 41 20 27.290	E 144 14 3.422
	913.05	0.58	214.02	913.01	5.56	-1.57	5.37	0.95	5418348.83	770620.47	S 41 20 27.295	E 144 14 3.425
	941.83	0.70	74.64	941.79	5.67	-1.64	5.46	1.25	5418348.76	770620.56	S 41 20 27.298	E 144 14 3.429
	970.76	0.64	91.36	970.72	5.96	-1.60	5.79	0.21	5418348.80	770620.89	S 41 20 27.296	E 144 14 3.443
	999.56	0.80	139.54	999.52	6.29	-1.75	6.08	0.63	5418348.65	770621.18	S 41 20 27.301	E 144 14 3.456
	1028.45	0.46	115.68	1028.41	6.59	-1.96	6.31	0.44	5418348.44	770621.42	S 41 20 27.307	E 144 14 3.466
	1057.36	0.62	109.10	1057.32	6.86	-2.06	6.57	0.18	5418348.34	770621.67	S 41 20 27.310	E 144 14 3.477
	1086.13	0.59	71.18	1086.08	7.13	-2.06	6.85	0.41	5418348.34	770621.96	S 41 20 27.310	E 144 14 3.489
	1115.06	0.67	143.53	1115.01	7.38	-2.15	7.10	0.77	5418348.25	770622.20	S 41 20 27.312	E 144 14 3.500
	1144.00	0.68	139.77	1143.95	7.68	-2.42	7.31	0.05	5418347.98	770622.41	S 41 20 27.321	E 144 14 3.509
	1172.93	0.58	138.87	1172.88	7.96	-2.66	7.51	0.10	5418347.74	770622.62	S 41 20 27.328	E 144 14 3.519
	1201.85	0.45	160.27	1201.80	8.17	-2.88	7.65	0.24	5418347.52	770622.75	S 41 20 27.335	E 144 14 3.525
	1230.68	0.67	137.73	1230.63	8.40	-3.11	7.80	0.32	5418347.29	770622.90	S 41 20 27.342	E 144 14 3.532
	1259.58	0.29	168.59	1259.53	8.59	-3.30	7.93	0.46	5418347.10	770623.03	S 41 20 27.349	E 144 14 3.538
	1288.49	0.11	130.28	1288.44	8.66	-3.39	7.96	0.22	5418347.01	770623.07	S 41 20 27.351	E 144 14 3.539
	1317.41	0.23	108.83	1317.36	8.74	-3.43	8.04	0.14	5418346.97	770623.14	S 41 20 27.353	E 144 14 3.543
	1346.30	0.29	95.15	1346.25	8.87	-3.45	8.17	0.09	5418346.94	770623.27	S 41 20 27.353	E 144 14 3.548
	1375.23	0.41	87.00	1375.17	9.03	-3.46	8.34	0.13	5418346.94	770623.45	S 41 20 27.353	E 144 14 3.556
	1398.40	0.32	101.81	1398.34	9.17	-3.46	8.49	0.17	5418346.93	770623.60	S 41 20 27.353	E 144 14 3.562
	1436.48	0.21	345.43	1436.42	9.23	-3.42	8.58	0.36	5418346.98	770623.68	S 41 20 27.352	E 144 14 3.566
	1466.32	0.29	343.15	1466.26	9.15	-3.29	8.54	0.08	5418347.10	770623.65	S 41 20 27.348	E 144 14 3.564
	1523.81	0.26	327.52	1523.75	8.96	-3.04	8.43	0.04	5418347.35	770623.53	S 41 20 27.340	E 144 14 3.559
	1552.31	0.15	306.71	1552.25	8.87	-2.97	8.37	0.14	5418347.43	770623.47	S 41 20 27.337	E 144 14 3.556
	1610.49	0.20	273.09	1610.43	8.70	-2.92	8.20	0.06	5418347.48	770623.31	S 41 20 27.336	E 144 14 3.549
	1667.70	0.10	327.45	1667.64	8.56	-2.87	8.08	0.09	5418347.53	770623.18	S 41 20 27.334	E 144 14 3.543
	1753.02	0.15	85.88	1752.96	8.60	-2.80	8.15	0.08	5418347.60	770623.25	S 41 20 27.332	E 144 14 3.546
	1782.05	0.17	30.71	1781.99	8.64	-2.76	8.21	0.15	5418347.64	770623.31	S 41 20 27.331	E 144 14 3.549
	1811.44	0.22	22.53	1811.38	8.65	-2.67	8.25	0.06	5418347.73	770623.36	S 41 20 27.328	E 144 14 3.550
	1840.13	0.41	23.27	1840.07	8.65	-2.52	8.31	0.20	5418347.87	770623.42	S 41 20 27.323	E 144 14 3.553
	1896.95	0.36	21.42	1896.89	8.65	-2.17	8.46	0.03	5418348.23	770623.56	S 41 20 27.311	E 144 14 3.558
	1928.28	0.40	341.32	1928.22	8.58	-1.98	8.46	0.25	5418348.42	770623.56	S 41 20 27.305	E 144 14 3.558
	1960.02	0.46	333.87	1959.96	8.41	-1.76	8.37	0.08	5418348.64	770623.47	S 41 20 27.298	E 144 14 3.554
	1988.76	0.36	339.99	1988.70	8.26	-1.57	8.29	0.11	5418348.83	770623.39	S 41 20 27.292	E 144 14 3.550
	2017.29	0.35	330.35	2017.23	8.14	-1.41	8.21	0.06	5418348.99	770623.32	S 41 20 27.287	E 144 14 3.547
	2046.82	0.40	345.32	2046.76	8.00	-1.23	8.14	0.11	5418349.17	770623.25	S 41 20 27.281	E 144 14 3.543
	2076.60	0.30	339.19	2076.54	7.89	-1.06	8.09	0.11	5418349.34	770623.19	S 41 20 27.276	E 144 14 3.541
	2105.86	0.28	331.18	2105.80	7.78	-0.92	8.03	0.05	5418349.48	770623.13	S 41 20 27.271	E 144 14 3.538
	2163.31	0.34	338.86	2163.24	7.55	-0.64	7.90	0.04	5418349.76	770623.00	S 41 20 27.262	E 144 14 3.532
	2192.25	0.32	344.83	2192.18	7.45	-0.48	7.84	0.04	5418349.92	770622.95	S 41 20 27.257	E 144 14 3.529

2219.96	0.41	332.65	2219.89	7.32	-0.32	7.78	0.13	5418350.08	770622.88	S 41 20 27.252	E 144 14 3.526
2278.23	0.35	333.64	2278.16	7.03	0.03	7.60	0.03	5418350.43	770622.71	S 41 20 27.241	E 144 14 3.518
2335.93	0.45	317.58	2335.86	6.69	0.35	7.37	0.08	5418350.75	770622.48	S 41 20 27.231	E 144 14 3.508
2421.85	0.36	319.82	2421.78	6.15	0.81	6.97	0.03	5418351.21	770622.07	S 41 20 27.217	E 144 14 3.490
2508.06	0.43	323.34	2507.99	5.63	1.27	6.60	0.03	5418351.67	770621.71	S 41 20 27.202	E 144 14 3.473
2594.16	0.37	325.91	2594.08	5.13	1.76	6.25	0.02	5418352.16	770621.36	S 41 20 27.187	E 144 14 3.457
2768.83	0.44	309.07	2768.75	4.01	2.65	5.42	0.02	5418353.05	770620.52	S 41 20 27.159	E 144 14 3.420
2827.34	0.37	280.23	2827.26	3.61	2.83	5.06	0.11	5418353.23	770620.16	S 41 20 27.154	E 144 14 3.404
2940.58	0.37	309.92	2940.50	2.91	3.13	4.42	0.05	5418353.53	770619.52	S 41 20 27.145	E 144 14 3.376
3061.80	0.42	338.67	3061.71	2.23	3.79	3.96	0.05	5418354.19	770619.06	S 41 20 27.124	E 144 14 3.355

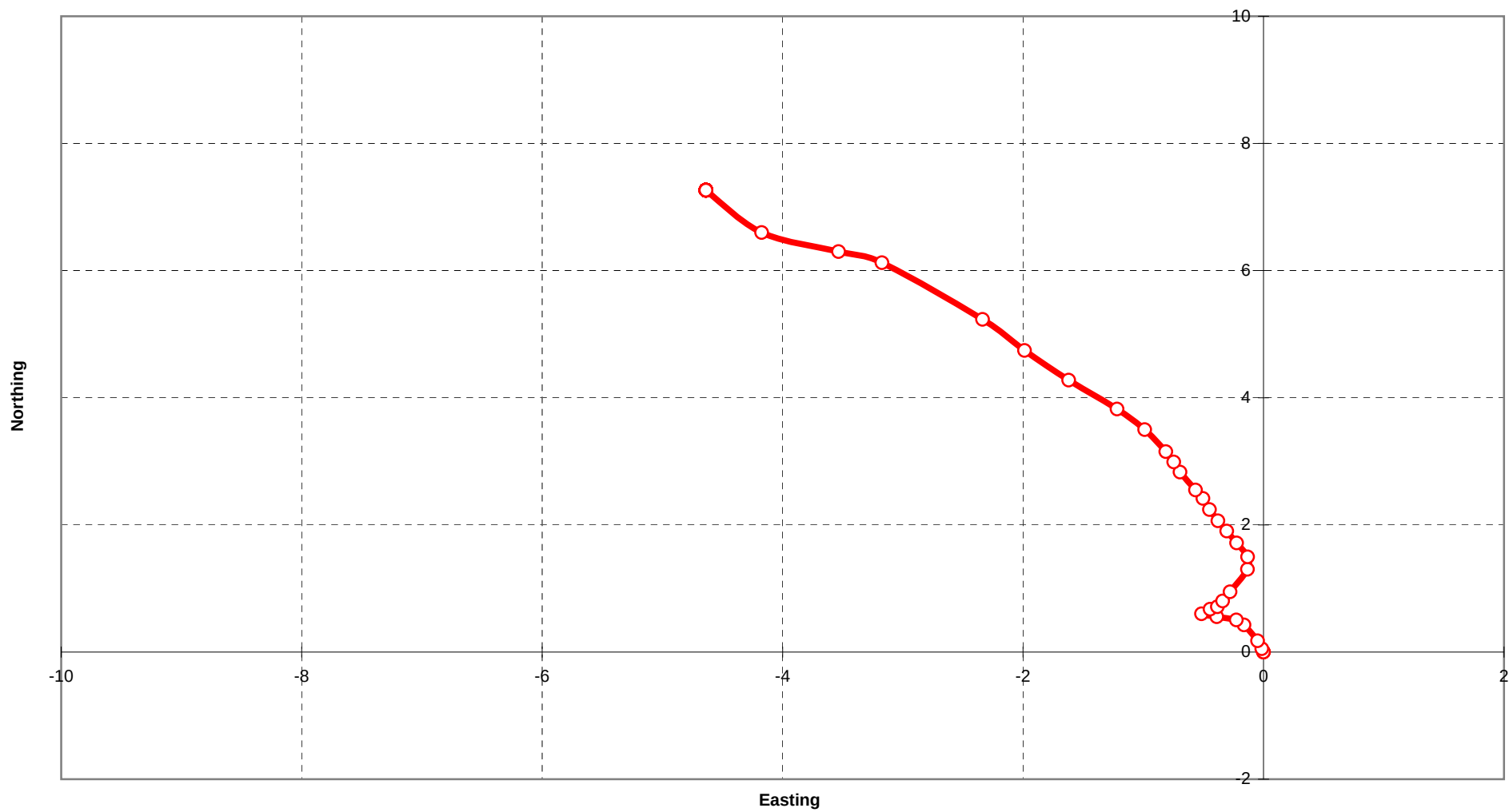
Survey Type: Non-Def Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

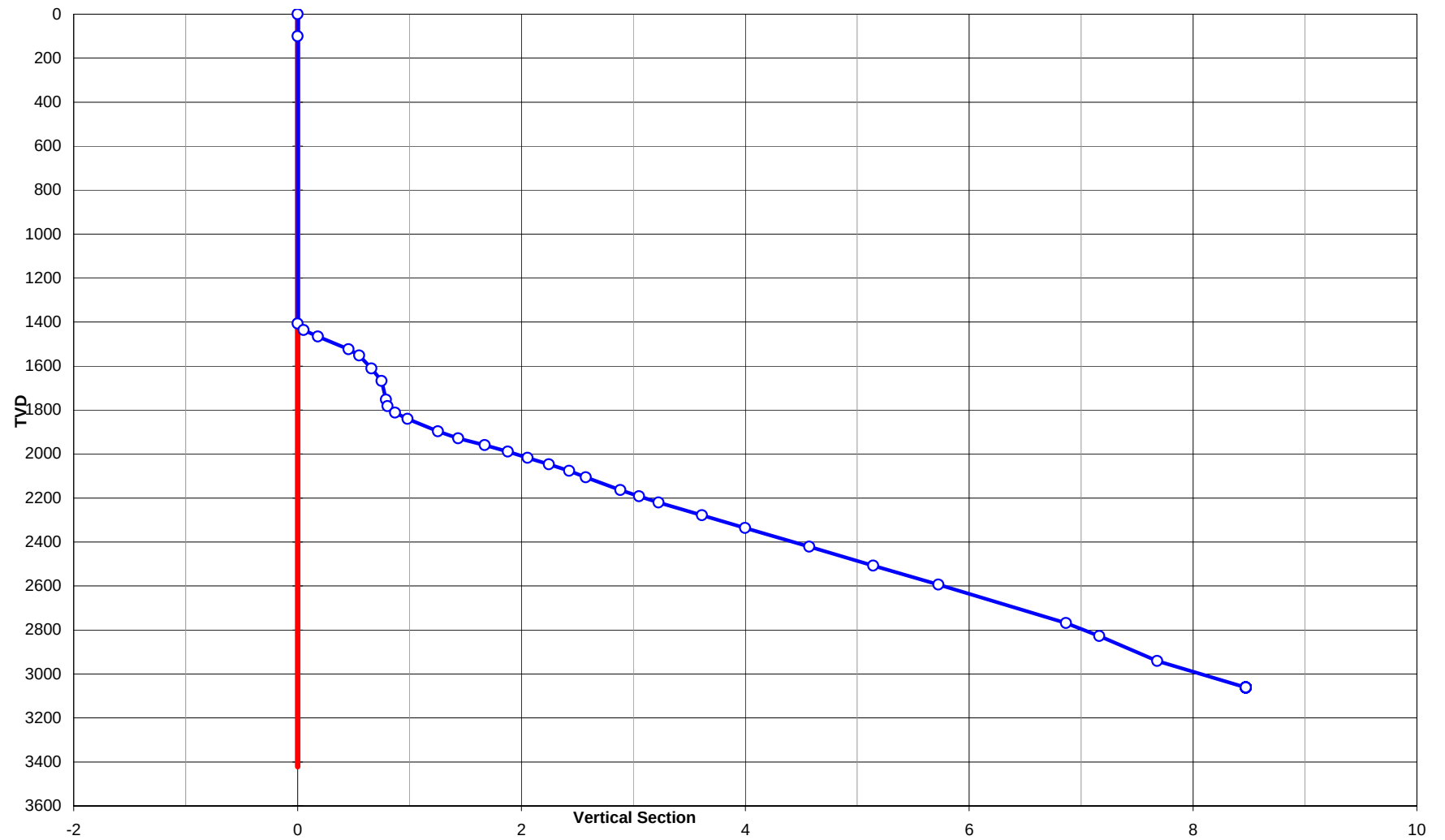
Surveying Prog:

<u>MD From (m)</u>	<u>MD To (m)</u>	<u>EOU Freq</u>	<u>Survey Tool Type</u>	<u>Borehole -> Survey</u>
0.00	596.70	Act-Stns	SLB_EMS-STD-Depth Only	Jarver 1 -> Jarver-1 Surveys
596.70	1398.40	Act-Stns	SLB_EMS-STD	Jarver 1 -> Jarver-1 Surveys
1398.40	3061.80	Act-Stns	SLB_MWD-STD	Jarver 1 -> Jarver-1 Surveys

Jarver 1 Plan View



Jarver 1 Vertical Section @ 338 Deg



SECTION 15: PRELIMINARY PALYNOLOGY REPORT

BASIC DATA.
Palynological analysis of cuttings samples
between 1440 and 3030 metres
in Jarver-1, offshore Sorell Basin.

by

Alan D. Partridge

Biostrata Pty Ltd

A.B.N. 39 053 800 945

Biostrata Report 2008/06B

27th August 2008

BASIC DATA.
**Palynological analysis of cuttings samples between
1440 and 3030 metres in Jarver-1, offshore Sorell Basin.**

by Alan D. Partridge

Introduction

Thirty-eight cuttings samples have been analysed for palynomorphs in the Jarver-1 exploration well though the basal part of the Cenozoic to Upper Cretaceous succession encountered between 1440 and 3030m. The well was drilled by Santos Ltd during May and June 2008, and is located in permit T/33P within the Sorell Basin, offshore western Tasmania. The objective of the study was to provide age subdivision of the stratigraphic succession penetrated using palynology.

Materials and Methods: The study is based on 88 palynological slides from 38 cuttings samples which were prepared at the Santos Ltd Palynological Laboratory in Adelaide. The slides were received by the author on 11th July 2008 and five Provisional Reports providing initial results were submitted between the 17th July and 11th August. Analysis of the samples was based on assemblage counts of over 150 palynomorphs in the more productive samples and rapid scanning of all the remaining slides. In those samples with low organic-residue recovery and low concentrations of palynomorphs on the slides all the specimens found on supplied slides were counted.

Results: Basic assemblage data comprising the visual organic residues yields, palynomorph concentrations on the slides and palynomorph preservation, and the number of spore-pollen and microplankton species recorded from individual samples are provided in Table 1. All palynological slides supplied and examined are listed in Table 2. Overall, the visual organic-yields varies from very low to moderate, with less than half of the samples categorised as having moderate to good concentrations of palynomorphs on the slides. For about one-quarter of the samples the supplied slides contained less than 100 identifiable palynomorph specimens. Preservation of the palynomorphs is mostly fair to good through the shallowest 500 metres, but declines to mostly poor to fair through the deepest 1600 metres of the stratigraphic succession.

The poor recovery of organic-residues and low recovery of palynomorphs is understood to be mainly due to the selective removal of fine-grained lithologies from the cuttings during either the drilling operations or the collection and subsequent washing and drying of the cuttings. These problems could not be compensated for in the laboratory preparation of the samples and are reflected in the palynological assemblages recorded, which are interpreted to be skewed or biased towards the larger palynomorph specimens and species. Relative to palynological studies of other wells penetrating equivalent stratigraphic successions in the greater Otway Basin the palynological assemblages recorded from Jarver-1 contain higher abundances of the larger dinocysts and the bigger spore species, and lower abundances of the smaller gymnosperm and angiosperm pollen (eg. *Dilwynites* and *Nothofagidites* species).

Description of Range Chart: The palynomorphs identified in the samples are documented on the accompanying StrataBugs™ range charts which displays the recorded palynomorph species in the cuttings samples proportional to their depth in the well and in terms of either the raw count data or their absolute abundance. The palynomorphs recorded are split between different categories. The panel labelled S&P or SP Categories provides total number of spores, gymnosperm and angiosperm pollen counted in the samples. The species within these categories are then displayed in separate

panels for spores, gymnosperm pollen and angiosperm pollen. The panel labelled MP or MP Categories provides a breakdown of the total microplankton count into categories of environmental significance, while the abundances of individual species are provided in the panel titled Microplankton. The final two panels are for all the Other kinds of palynomorphs recorded and for Reworked palynomorphs. Within the panels the species are plotted in order of their youngest occurrences or alternatively in alphabetical order.

The following codes or abbreviations apply to the individual species occurrences and abundances on the range chart:

Numbers	=	Absolute abundances or number of specimens counted.
+	=	Species outside of count.
C	=	Caved species.
R	=	Reworked species.
?	=	Questionable identification of species.

Author citations for most of the recorded spore-pollen species can be sourced from the papers by Dettmann (1963, 1986), Dettmann & Playford (1968), Helby *et al.* (1987) and Stover & Partridge (1973). Author citations for the microplankton species can be sourced from the indexes for dinocysts and other miscellaneous organic-walled microplankton prepared by Fensome *et al.* (1990), and Williams *et al.* (1998). Manuscript species names and combinations are indicated by “sp. nov.” or “comb. nov.” on the range chart. Most of the manuscript species used are derived from the PhD theses of Marshall (1984) and Partridge (1999).

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Table 1. Basic assemblage data for Jarver-1, offshore Sorell Basin.

Sample Type	Depth metres	Visual Yield	Palynomorph Concentration	Palynomorph Preservation	No. SP Species	No. MP Species
Cuttings	1440m	Low	Low-Moderate	Fair-Good	29+	13+
Cuttings	1450m	Low	Low	Poor-Good	27+	12+
Cuttings	1530m	Low	Moderate	Fair-Good	23+	15+
Cuttings	1570m	Low-Moderate	Moderate	Fair-Good	33+	15+
Cuttings	1580m	Low	Moderate	Poor-Good	22+	14+
Cuttings	1620m	Moderate	Moderate	Fair-Good	23+	15+
Cuttings	1680m	Moderate	Moderate	Poor-Good	25+	15+
Cuttings	1750m	Low	Low-Moderate	Poor-Good	38+	18+
Cuttings	1790m	Low-Moderate	Moderate	Fair-Good	32+	19+
Cuttings	1880m	Very Low	Moderate	Poor-Good	36+	13+
Cuttings	1940m	Low	Low	Poor-Good	37+	14+
Cuttings	1968m	Very Low	Very Low	Poor-Fair	22+	4+
Cuttings	1992m	Low	Very Low	Poor-Fair	19+	5+
Cuttings	2022m	Low	Very Low	Poor-Fair	23+	12+
Cuttings	2076m	Very Low	Very Low	Poor	13+	2+
Cuttings	2136m	Very Low	Negligible	Poor	7+	4+
Cuttings	2178m	Very Low	Very Low	Poor-Good	23+	4+
Cuttings	2226m	Very Low	Negligible	Poor	5+	2+
Cuttings	2304m	Low	Very Low	Poor-Fair	27+	5+
Cuttings	2358m	Very Low	Very Low	Poor-Fair	18+	10+
Cuttings	2598m	Low	Low	Poor-Fair	22+	10+
Cuttings	2628m	Very Low	Very Low	Poor-Fair	20+	11+
Cuttings	2676m	Low	Low	Poor-Fair	19+	10+
Cuttings	2694m	Low	Low	Poor-Fair	27+	11+
Cuttings	2706m	Moderate	Low	Poor-Fair	17+	14+
Cuttings	2742m	Low	Very Low	Poor	18+	7+
Cuttings	2766m	Low	Very Low	Poor	19+	6+
Cuttings	2790m	Low	Low	Poor	18+	7+
Cuttings	2808m	Moderate	Moderate	Poor	27+	15+
Cuttings	2820m	Moderate	Moderate	Poor	29+	15+
Cuttings	2844m	Moderate	Moderate	Poor-Very Poor	27+	12+
Cuttings	2868m	Moderate	Low-Moderate	Poor-Very Poor	30+	7+
Cuttings	2892m	Moderate	Low	Poor-Fair	33+	13+
Cuttings	2916m	Moderate	Low	Poor-Fair	26+	9+
Cuttings	2946m	Low	Low	Poor-Fair	29+	12+
Cuttings	2952m	Moderate	Moderate	Poor-Fair	42+	13+
Cuttings	2970m	Low-Moderate	Low-Moderate	Poor-Very Poor	37+	17+
Cuttings	3030m	Low	Moderate	Poor-Fair	23+	5+
Average:					25+	10+

Table 2. Palynological slides from Jarver-1, offshore Sorell Basin.

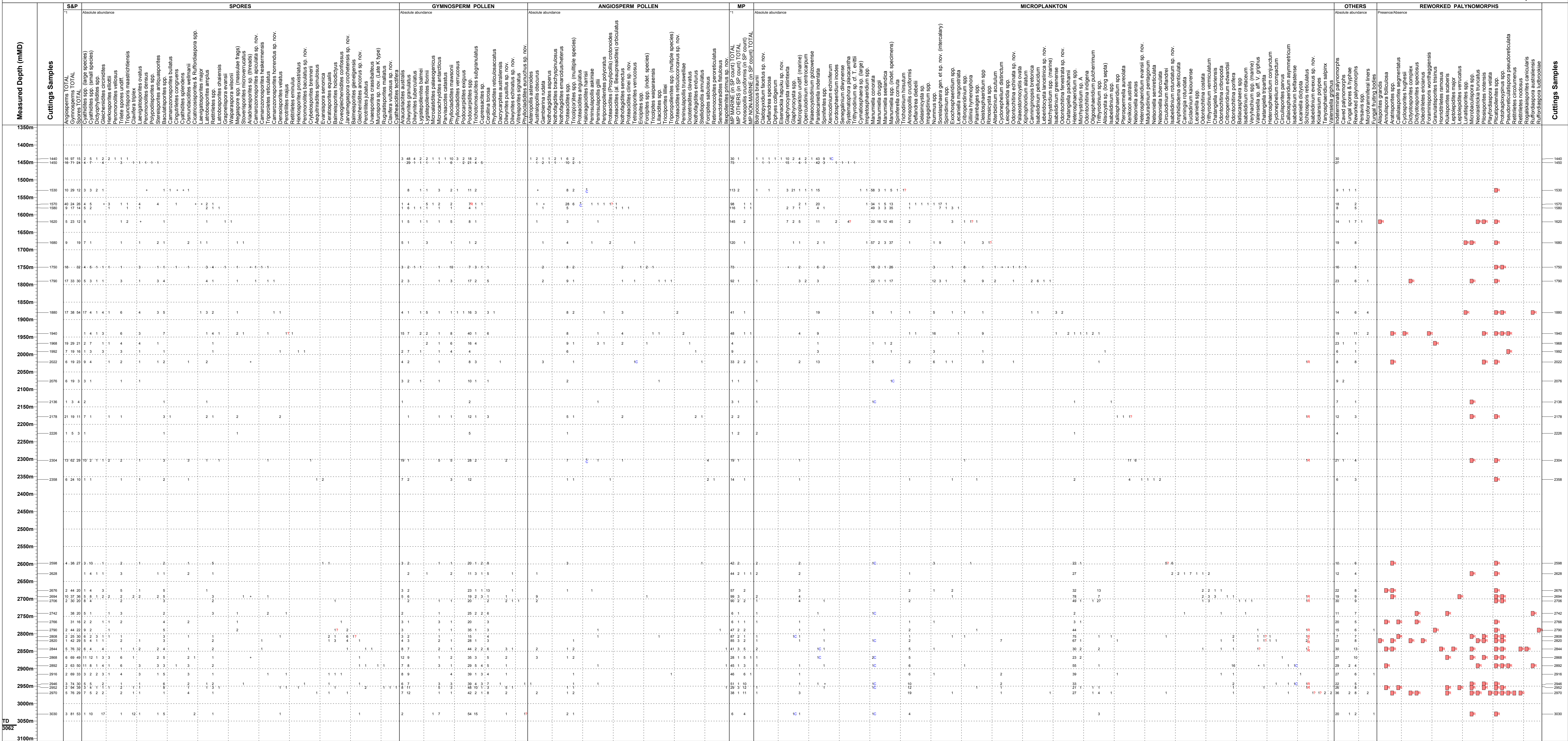
Slide No.	Sample Type	Depth Metres	Catalogue Number	Santos Lab Prep. No.	Description
1	Cuttings	1440m		11604	Kerogen slide
2	Cuttings	1440m		11604	Oxidised slide
3	Cuttings	1450m		11605	Kerogen slide
4	Cuttings	1450m		11605	Oxidised slide
5	Cuttings	1530m		11642	Kerogen slide – half cover slip
6	Cuttings	1530m		11642	Kerogen slide
7	Cuttings	1570m		11636	Kerogen slide
8	Cuttings	1570m		11636	Oxidised slide
9	Cuttings	1580m		11643	Kerogen slide – half cover slip
10	Cuttings	1580m		11643	Kerogen slide
11	Cuttings	1620m		11644	Kerogen slide – half cover slip
12	Cuttings	1620m		11644	Kerogen slide
13	Cuttings	1620m		11644	Kerogen slide – half cover slip
14	Cuttings	1680m		11645	Kerogen slide – half cover slip
15	Cuttings	1680m		11645	Kerogen slide
16	Cuttings	1680m		11645	Kerogen slide – half cover slip
17	Cuttings	1750m		11593	Kerogen slide
18	Cuttings	1750m		11593	Kerogen slide
19	Cuttings	1790m		11595	Kerogen slide
20	Cuttings	1790m		11595	Kerogen slide
21	Cuttings	1880m		11647	Kerogen slide – half cover slip
22	Cuttings	1880m		11647	Kerogen slide – half cover slip
23	Cuttings	1940m		11591	Kerogen slide – half cover slip
24	Cuttings	1940m		11591	Kerogen slide
25	Cuttings	1968m		11648	Kerogen slide
26	Cuttings	1992m		11650	Kerogen slide
27	Cuttings	2022m		11652	Kerogen slide
28	Cuttings	2022m		11652	Kerogen slide – half cover slip
29	Cuttings	2076m		11658	Kerogen slide
30	Cuttings	2136m		11653	Kerogen slide
31	Cuttings	2136m		11653	Kerogen slide – half cover slip
32	Cuttings	2178m		11655	Kerogen slide
33	Cuttings	2178m		11655	Kerogen slide – half cover slip
34	Cuttings	2226m		11656	Kerogen slide – half cover slip
35	Cuttings	2226m		11656	Oxidised slide

Table 2. Palynological slides from Jarver-1, offshore Sorell Basin (continued).

Slide No.	Sample Type	Depth Metres	Catalogue Number	Santos Lab Prep. No.	Description
36	Cuttings	2304m		11618	Kerogen slide
37	Cuttings	2304m		11618	Kerogen slide
38	Cuttings	2304m		11618	Oxidised slide
39	Cuttings	2358m		11620	Kerogen slide
40	Cuttings	2598m		11597	Kerogen slide
41	Cuttings	2598m		11597	Oxidised slide
42	Cuttings	2628m		11599	Kerogen slide – half cover slip
43	Cuttings	2628m		11599	Oxidised slide
44	Cuttings	2676m		11600	Kerogen slide
45	Cuttings	2676m		11600	Kerogen slide
46	Cuttings	2676m		11600	Oxidised slide
47	Cuttings	2694m		11601	Kerogen slide
48	Cuttings	2694m		11601	Oxidised slide
49	Cuttings	2706m		11602	Kerogen slide
50	Cuttings	2706m		11602	Kerogen slide
51	Cuttings	2706m		11602	Oxidised slide
52	Cuttings	2742m		11639	Kerogen slide
53	Cuttings	2742m		11639	Kerogen slide
54	Cuttings	2766m		11641	Kerogen slide
55	Cuttings	2766m		11641	Kerogen slide
56	Cuttings	2790m		11623	Kerogen slide – half cover slip
57	Cuttings	2790m		11623	Oxidised slide
58	Cuttings	2808m		11624	Kerogen slide – half cover slip
59	Cuttings	2808m		11624	Oxidised slide
60	Cuttings	2808m		11624	Oxidised slide
61	Cuttings	2820m		11625	Kerogen slide – half cover slip
62	Cuttings	2820m		11625	Oxidised slide
63	Cuttings	2820m		11625	Oxidised slide
64	Cuttings	2844m		11628	Kerogen slide
65	Cuttings	2844m		11628	Kerogen slide
66	Cuttings	2844m		11628	Kerogen slide
67	Cuttings	2868m		11630	Kerogen slide
68	Cuttings	2868m		11630	Kerogen slide
69	Cuttings	2868m		11630	Kerogen slide

Table 2. Palynological slides from Jarver-1, offshore Sorell Basin (continued).

Slide No.	Sample Type	Depth Metres	Catalogue Number	Santos Lab Prep. No.	Description
70	Cuttings	2892m		11632	Kerogen slide
71	Cuttings	2892m		11632	Kerogen slide
72	Cuttings	2892m		11632	Kerogen slide
73	Cuttings	2892m		11632	Kerogen slide
74	Cuttings	2916m		11606	Kerogen slide
75	Cuttings	2916m		11606	Oxidised slide
76	Cuttings	2916m		11606	Oxidised slide
77	Cuttings	2946m		11607	Kerogen slide
78	Cuttings	2946m		11607	Oxidised slide
79	Cuttings	2946m		11607	Oxidised slide
80	Cuttings	2952m		11608	Oxidised slide
81	Cuttings	2952m		11608	Oxidised slide
82	Cuttings	2952m		11608	Oxidised slide
83	Cuttings	2970m		11610	Oxidised slide
84	Cuttings	2970m		11610	Oxidised slide
85	Cuttings	2970m		11610	Kerogen slide
86	Cuttings	2970m		11610	Kerogen slide – half cover slip
87	Cuttings	3030m		11611	Kerogen slide
88	Cuttings	3030m		11611	Kerogen slide – half cover slip



Well Name : Jarver-1

Operator : Santos Ltd
Well Code : JARVER-1

Lat/Long : 41°20' 27.25"S 144°14' 3.19"E

Interval : 1350m - 3100m

Scale : 1:5000

Chart date: 26 August 2008

Spudded : 16 May 2008
Completed : 18 June 2008

Absolute Abundance for Spore-Pollen species

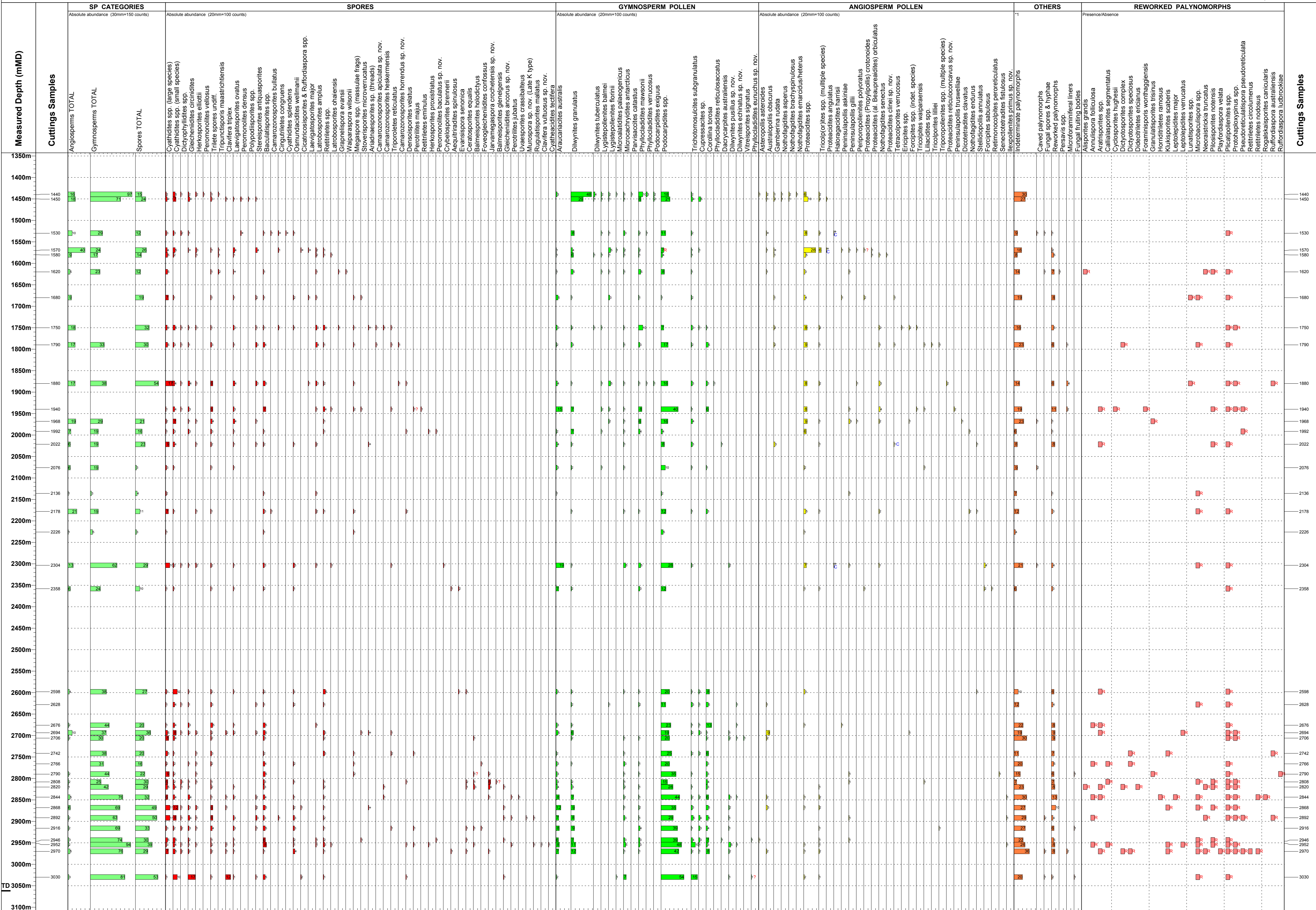
Sample interval 1440 to 3030m

Microscope analysis by Alan D. Partridge

Jarver-1

Biostrata Pty Ltd
AUSTRALIA

Attachment to Biostrata Reports 2008/06B



Operator : Santos Ltd	Spudded : 16 May 2008
Well Code : JARVER-1	Completed : 18 June 2008
Lat/Long : 41°20' 27.25"S 144°14' 3.19"E	
Interval : 1350m - 3100m	Absolute Abundance of Microbes
Scale : 1:5000	Sample interval 1440 to 3000
Chart date: 27 August 2008	Microscope analysis by Al

Attachment to Biostrata Reports 2008/06B

Measured Depth (mMD)

Cuttings Samples

MP CATEGORIES

Absolute abundance (30mm=150 counts)

Absolute abundance (20mm=100 counts)

MICROPLANKTON

Cuttings Samples

Depth (mMD)	MP MARINE (in SP count) TOTAL	MP OTHERS (in SP count) TOTAL	MP NON-MARINE (in SP count) TOTAL	MP OTHERS (in SP count) TOTAL
1350m				
1400m				
1450m	38	73		
1500m				
1550m	113			
1600m	98	116		
1650m	145			
1700m	123			
1750m	73			
1800m	92			
1850m				
1900m	41			
1950m	48			
2000m				
2050m	33			
2100m				
2150m				
2200m				
2250m				
2300m	19			
2350m	14			
2400m				
2450m				
2500m				
2550m				
2600m	43			
2650m	44			
2700m	59	94		
2750m				
2800m	47	81		
2850m	43			
2900m	45			
2950m	51			
3000m				
3050m				
3100m				

SECTION 16: PRODUCTION TEST REPORT

A Production Test was not conducted at the Jarver 1 location.