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Date:	31 August 2001	Last Casing:	13.3/8" @ 551 mMDRT
Report Number:	4	LOT:	2.15 SG
Report Period:	00:00-24:00 Hours	Mud Weight:	1.21
Depth @ 24:00 Hours:	1343 mMDRT	ECD	1.13
Depth (mTVDR)	1343 mTVDR	Mud Type:	KCl-PHPA-glycol
Lag Depth:	N/A	Mud Chlorides:	47000
Last Depth:	557 mMDRT	Est. Pore Press:	Normal
Progress:	786 m	Last Survey Depth:	557m
Water Depth:	101.2 m LAT	Deviation:	1.5 deg
RT-Sea Level:	25 m	Bit Diameter:	12 1/4"

OPERATIONS SUMMARY

24 HOUR SUMMARY: Drill 12 1/4" hole 557m – 1343m.

NEXT 24 HOURS: Drill 12 1/4" hole as per program.

CURRENT OPERATION @ 06:00 Hrs 01/09/2001: Drilling 12 1/4" hole at 1489m MDRT.

GEOLOGICAL SUMMARY

LITHOLOGY:

INTERVAL: 557 – 605m MDRT

ROP range: 8 - 176

Av ROP: 65

ARGILLACEOUS CALCILUTITE GRADING TO ARGILLACEOUS CALCISILTITE AND MINOR CALCARENITE.

Argillaceous Calcilutite (50%): light grey to medium grey, very soft to soft, amorphous, grades to Calcareous Claystone.

Argillaceous Calcisiltite (50%): light grey to medium grey, soft to friable, trace skeletal fragments, **Calcarenite:** medium grey, friable to moderately hard, fine grained, common clay, common calcilutite matrix, minor calcite cement, minor disseminated subround fine quartz grains, minor skeletal fragments, trace glauconite, trace lithic fragments, no visible porosity.

INTERVAL: 605 – 750m MDRT

ROP range: 16 - 360

Av ROP: 89

CALCAREOUS CLAYSTONE AND MINOR ARGILLACEOUS CALCISILTITE.

Calcareous Claystone (80%): very light grey to medium grey, very soft to soft, trace pyrite, trace glauconite, trace forams and skeletal fragments, trace dark grey and brown lithics, grades to Argillaceous Calcilutite.

Argillaceous Calcisiltite (20%): light grey to medium grey, soft to friable, trace skeletal fragments, trace pyrite, trace dark grey and brown lithics.



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INTERVAL: 750 – 960m MDRT

ROP range: 12 - 420

Av ROP: 125

CALCAREOUS CLAYSTONE AND MINOR ARGILLACEOUS CALCISILTITE.

Calcareous Claystone (80%): light to medium grey, olive grey, very soft to firm, amorphous, abundant calcareous clay, minor calcareous silt, trace foraminifera, trace skeletal fragments, trace dark grey lithic fragments, trace glauconite, trace disseminated pyrite.

Argillaceous Calcisiltite (20%): very light grey to medium grey, soft to moderately hard, abundant to very abundant calcareous clay, trace glauconite, trace lithic fragments, grading in parts to argillaceous calcilutite, trace disseminated pyrite.

INTERVAL: 960 - 1210m MDRT

ROP range: 59 - 500

Av ROP: 135

MASSIVE CALCAREOUS CLAYSTONE.

Calcareous Claystone (100%): very light grey to medium grey, soft to firm, amorphous to sub-blocky, very abundant calcareous clay, rare calcareous silt, rare siliceous silt, trace glauconite, trace foraminifera, trace lithic fragments.

INTERVAL: 1210 - 1260

ROP range: 16 - 207

Av ROP: 103

CALCAREOUS CLAYSTONE AND MINOR ARGILLACEOUS CALCILUTITE

Calcareous Claystone (90%): as above.

Argillaceous Calcilutite (10%): very light to light grey, soft amorphous, minor calcareous silt.

INTERVAL: 1260 - 1320

ROP range: 13 - 145

Av ROP: 64

CALCAREOUS CLAYSTONE, COMMON ARGILLACEOUS CALCILUTITE AND MINOR SANDSTONE.

Calcareous Claystone (70%): similar to above, light to medium grey, olive grey, soft, minor firm, amorphous to sub-blocky, minor calcareous silt, minor quartz silt, minor disseminated very fine spherical quartz grains, trace pyrite, trace foraminifera, trace glauconite, trace lithic fragments.

Argillaceous Calcilutite (25%): as above.

Sandstone (5%): colourless, yellow to orange and brown iron staining, loose, predominantly very fine to minor fine grained quartz, subround to round, spherical moderately sorted quartz, rare dark grey silt and dark brown lithic fragments, trace mica, trace glauconite, 25% inferred porosity, no fluorescence.

INTERVAL: 1320 - 1343

ROP range: 10 - 93

Av ROP: 46

CALCAREOUS CLAYSTONE AND ARGILLACEOUS CALCILUTITE

Calcareous Claystone (50%): similar to above, no quartz sand.

Argillaceous Calcilutite (50%): very light grey, minor white, soft, amorphous,

**CONFIDENTIAL****GAS SUMMARY:****Background Gas**

INTERVAL(mMDRT)	Total GAS (%)	CO ₂ (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	C5 (%)
557 - 850	0.02 – 0.05	0.009 – 0.04	0 – 0.013	Nil	Nil	Nil	Nil	Nil
850 - 960	0.02 – 0.12	0.003 – 0.04	0.004 – 0.095	Nil	Nil	Nil	Nil	Nil
960 - 1210	0.05 – 0.15	0.003 – 0.04	0.006 – 0.102	Nil	Nil	Nil	Nil	Nil
1210 - 1260	0.02 – 0.14	0.007 – 0.03	0.033 – 0.113	Nil	Nil	Nil	Nil	Nil
1260 – 1343	0.03 – 0.11	0.008 – 0.03	0.006 – 0.060	Nil	Nil	Nil	Nil	Nil

Trip Gas

DEPTH (mMDRT)	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	C5 (%)
Nil							

Connection Gas

DEPTH (mMDRT)	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	C5 (%)
Nil							

Peaks

DEPTH (mMDRT)	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	C5 (%)
Nil							

HYDROCARBON FLUORESCENCE:

Nil

FORMATION PRESSURE ESTIMATION:

No connection gas or cavings noted, dxc unreliable – pore pressure estimated to be about 1.03 sg.

SAMPLE QUALITY:

Adequate.

10 m samples taken due to high ROP's.



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LWD

Sensor	Meters behind drill bit
Resistivity	14.83
GR	18.18

Note problems with ROP system. Changed out to back up system – no data from 790 to 820 mMDRT while new geolograph cable installed. ROP data improved below 820m.

MUDLOGGING EQUIPMENT/PERSONNEL:

Integrator printout not annotating depth – ok in database. Waiting on new chair

REMARKS:

Preliminary top Narrawaturk @ 1315m MDRT

Preliminary top Mepunga @ 1417m MDRT

WELLSITE GEOLOGISTS

G. Weste / M. Bilek