

**CONFIDENTIAL**

Date:	08 September 2001	Last Casing:	9 5/8" @ 2101 mMDRT
Report Number:	12	FIT:	2.2 sg
Report Period:	00:00-24:00 Hours	Mud Weight:	1.16 sg
Depth @ 24:00 Hours:	2525 mMDRT	ECD	1.22 sg
Depth (mTVDRT)	2524.7 mTVDRT	Mud Type:	KCl-PHPA-glycol
Lag Depth:	2525 mMDRT	Mud Chlorides:	43000 mg/l
Last Depth:	2316 mMDRT	Est. Pore Press:	1.03 sg
Progress:	209 m	Last Survey Depth:	2496 m
Water Depth:	101.2 m LAT	Deviation:	Inc: 3.51°, Az: 151.68°
RT-Sea Level:	25 m	Bit Diameter:	8 1/2"

OPERATIONS SUMMARY

24 HOUR SUMMARY: *Made up 8 1/2" drilling assembly, ran in hole and drilled from 2316 to 2525 mMDRT. Circulated hole clean, dropped gyro and pulled out of hole. Rigged up wireline loggers and ran in hole for Run 1 (PEX (HRLA)-DSI-GPIT) - and commenced wireline logging program.*

NEXT 24 HOURS: *Continue wireline logging as per program.*

CURRENT OPERATION @ 06:00 Hrs 09/09/2001: *Rigging down from Run 1.*

GEOLOGICAL SUMMARY

LITHOLOGY: (from ditch cuttings)

INTERVAL: 2316 - 2478m

ROP range: 22 - 273

Av ROP: 80

SANDSTONE interbedded with minor SILTSTONE.

SANDSTONE (80%): light grey, loose to friable, very fine to fine predominantly fine grained, subangular, slightly spherical, common quartz silt matrix, minor clay matrix, trace calcite cement, rare silica cement, rare to minor fine carbonaceous streaks, rare to minor lithic fragments, rare to minor pyrite, grades to Silty Sandstone, 5 - 20% intergranular porosity. No fluorescence.

SILTSTONE (20%): dark grey, hard, sub-blocky, minor carbonaceous matter, rare lithic fragments, minor pyrite.

INTERVAL: 2478 - 2525 m

ROP range: 35 - 167

Av ROP: 92

SANDSTONE interbedded with minor SILTSTONE.

SANDSTONE (90%): colourless, very light grey, opaque to clear, loose rare friable, medium to coarse rare very fine minor fine, coarse, very coarse and granular quartz grains and shards (conglomeratic in parts), angular, to subangular, very poorly sorted, slightly spherical, trace siliceous cement and minor light grey argillaceous matrix associated with rare aggregates, trace carbonaceous detritus, 20% inferred porosity, (5 to 10% visible porosity from aggregates), no fluorescence.

SILTSTONE (10%): grey black, firm to hard, sub-blocky to subfissile, abundant to very abundant carbonaceous detritus and microlaminae, grading in parts to Carbonaceous Siltstone, trace very fine grained quartz, trace lithic fragments, trace disseminated and nodular pyrite.

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

INTERVAL(mMDRT)	Total GAS (%)	CO ₂ (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	C5 (%)
2316 - 2478	0.07 – 0.9	0.02	0.06 – 0.8	0.01 – 0.02	0.006	Nil	Nil	Nil
2478 - 2525	0.09 – 0.3	0.02	0.08 – 0.25	0.01	0.003	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 (%)
2324	5.55	4.73	0.11	0.035	Nil	Nil	Nil
2347	1.11	0.90	0.02	0.007	Nil	Nil	Nil
2378	1.07	0.92	0.02	0.006	Nil	Nil	Nil

HYDROCARBON FLUORESCENCE:

Nil

WIRELINE:

MUD DATA	Rmf: 0.0903 @ 15°C	Rm: 0.1027 @ 15°C	Rmc: 0.2357 @ 14°C	Chlorides: 43K
Type: KCl-PHPA-Glycol	MWt: 1.16	FL: 3.7	Vis: 58	pH: 9.0

Run	Logging Run	COMMENTS	Status
1	PEX (HRLA)-DSI-GPIT		Running
2	FMI-GR-GPIT		To be run
3	MDT-GR		To be run
4	CSI (Checkshot)		To be run

Loggers TD: 2530m, 9 5/8" shoe @ 2103.5m

FORMATION PRESSURE ESTIMATION:

Pore pressure normal, no gas cut mud, no cavings.

SAMPLE QUALITY:

Poor.

WELLSITE GEOLOGISTS

G. Weste / M. Bilek