

**CONFIDENTIAL**

Date:	02 October 2001	Last Casing:	13 3/8" @ 558 mMDRT
Report Number:	2	FIT:	2.01 sg @ 572 mMDRT
Report Period:	00:00-24:00 Hours	Mud Weight:	1.25 sg
Depth @ 24:00 Hours:	1080 mMDRT	ECD	1.27 sg
Depth (mTVDRT)	1080 mTVDRT	Mud Type:	KCl – PHPA – Glycol
Lag Depth:	1060	Mud Chlorides:	49000 mg/l
Last Depth:	565 mMDRT	Est. Pore Press:	Normal
Progress:	515 m	Last Survey Depth:	1045.27 mMDRT
Water Depth:	82.0 m LAT	Deviation:	1.06° @ 176.39° azimuth
RT-Sea Level:	25 m	Bit Diameter:	12 1/4"

OPERATIONS SUMMARY

24 HOUR SUMMARY: *Continued to run in hole. Drilled out shoe track whilst displacing seawater to KCl – PHPA – Glycol mud system and drilled 12 1/4" hole to 572 mMDRT. Worked pipe to remove debris from shoe track. Conducted Formation Integrity Test to 2.01 sg EMW. Drilled 12 1/4" section from 572 to 1080 mMDRT.*

NEXT 24 HOURS: *Continue to drill 12 1/4" section as programmed.*

CURRENT OPERATION @ 06:00 Hrs 03/10/2001: *Drilling 12 1/4" section at 1242 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY:

INTERVAL: 565 - 630

ROP range: 11 - 285

Av ROP: 80

ARGILLACEOUS CALCILUTITE WITH MINOR INTERBEDS OF CALCILUTITE.

ARGILLACEOUS CALCILUTITE (80%): light olive grey to green grey, soft to firm, sub-blocky, abundant grey argillaceous material, trace calcite cement, trace to minor calcareous silt, rare siliceous silt, rare glauconite, trace to minor skeletal fragments, trace disseminated very fine quartz sand, trace foraminifera, trace crinoids, trace coral fragments.

CALCILUTITE (20%): white to very light grey, soft to firm, amorphous, rare calcareous silt, rare light grey argillaceous material, trace glauconite.

INTERVAL: 630 - 670

ROP range: 22 - 532

Av ROP: 169

ARGILLACEOUS CALCILUTITE WITH MINOR INTERBEDS OF CALCILUTITE AND CALCARENITE.

ARGILLACEOUS CALCILUTITE (80%): similar to above, rarely grades to Calcareous Claystone.

CALCARENITE (10%): light yellowish brown, very light grey, friable to moderately hard, blocky, predominantly skeletal and calcilutite fragments, minor calcite cement, abundant calcilutite and calcisiltite matrix, trace very fine quartz sand, trace glauconite.



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INTERVAL: 670 - 730
ROP range: 17 - 313
Av ROP: 170

ARGILLACIOUS CALCILUTITE INTERBEDDED WITH CALCAREOUS CLAYSTONE.

ARGILLACEOUS CALCILUTITE (80%): as above.
CALCAREOUS CLAYSTONE (20%): very light grey to light grey, soft to firm, amorphous, common calcareous silt, trace glauconite.

INTERVAL: 730 - 840
ROP range: 24 - 564
Av ROP: 184

SANDSTONE (100%): yellowish brown to dark yellowish brown and medium brown, loose to friable, massive, very fine to granule, predominantly medium to coarse, subangular to well rounded, slightly spherical to slightly elongate, poorly sorted, yellow to dark brown stained commonly pitted clear and rarely frosted quartz, trace calcite cement, minor dispersive clay matrix, trace to minor very dispersive dark brown to dark greyish brown silt matrix increasing in abundance with depth, trace glauconite, very good inferred intergranular porosity, no fluorescence.

INTERVAL: 840 - 960
ROP range: 15 - 413
Av ROP: 120

SANDSTONE (100%): brownish grey to greyish brown, loose to rarely friable, very fine to granule, predominantly medium to coarse, subangular to well rounded, slightly spherical to slightly elongate, poorly sorted, pale yellow to light brown stained clear and rarely frosted quartz, minor to common dark greyish brown very dispersive clay and silt matrix increasing in abundance with depth, trace glauconite, moderate to good inferred intergranular porosity, no fluorescence. Rarely grades to Silty Sandstone.

INTERVAL: 960 - 1060
ROP range: 20 - 277
Av ROP: 108

SILTY SANDSTONE (100%): olive grey to dark brownish grey and dark grey, loose to rarely friable, very fine to very coarse grained, predominantly medium grained, subangular to well rounded, slightly spherical, poorly sorted frosted and clear quartz, minor clay matrix, nil to 5% inferred intergranular porosity, no fluorescence. Rarely grades to Sandy siltstone.

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

INTERVAL(mMDRT)	Total GAS (%)	CO ₂ (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	C5 (%)
565 - 1060	0.01 – 0.02	0.01 – 0.05	0.01 – 0.02	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.

LWD

Sensor	Meters behind drill bit
Resistivity	15.17
GR	18.53
Direction / Inclination	25.81

Note no real time data from 1025 to 1035 mMDRT due to loss of signal (pump rates reduced to control surface losses across shakers) – recorded data should be ok.

MUDLOGGING EQUIPMENT/PERSONNEL:

All operational.

WELLSITE GEOLOGISTS

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