

**CONFIDENTIAL**

<b>Date:</b>	03 October 2001	<b>Last Casing:</b>	13 3/8" @ 558 mMDRT
<b>Report Number:</b>	3	<b>FIT:</b>	2.01 sg @ 558 mMDRT
<b>Report Period:</b>	00:00-24:00 Hours	<b>Mud Weight:</b>	1.25 sg
<b>Depth @ 24:00 Hours:</b>	1670 mMDRT	<b>ECD</b>	1.27 sg
<b>Depth (mTVDRT)</b>	1669.8 mTVDRT	<b>Mud Type:</b>	KCl – PHPA – Glycol
<b>Lag Depth:</b>	1660	<b>Mud Chlorides:</b>	45000 mg/l
<b>Last Depth:</b>	1080 mMDRT	<b>Est. Pore Press:</b>	Normal
<b>Progress:</b>	590 m	<b>Last Survey Depth:</b>	1568.32 mMDRT
<b>Water Depth:</b>	82.0 m LAT	<b>Deviation:</b>	1.65° @ 336.38° azimuth
<b>RT-Sea Level:</b>	25 m	<b>Bit Diameter:</b>	12 1/4"

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**OPERATIONS SUMMARY**

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**24 HOUR SUMMARY:** *Drilled 12 1/4" section from 1080 to 1670 mMDRT.*

**NEXT 24 HOURS:** *Continue to drill 12 1/4" section to 1790 (+/-) mMDRT (9 5/8" casing point) as programmed.*

**CURRENT OPERATION @ 06:00 Hrs 04/10/2001:** *Circulate out sample at 1774 mMDRT due to drilling break.*

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**GEOLOGICAL SUMMARY**

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**LITHOLOGY:**

**INTERVAL:** 1060 - 1114

**ROP range:** 13 - 207

**Av ROP:** 73

**ARGILLACEOUS SILTSTONE INTERBEDDED WITH SILTY SANDSTONE.**

**ARGILLACEOUS SILTSTONE (80%):** grey brown, very soft to soft, amorphous to dispersive, abundant argillaceous material and grading to silty claystone in parts, rare pyrite nodules, trace carbonaceous detritus.

**SILTY SANDSTONE (20%):** very light grey, friable, very fine to fine grained minor medium grained quartz, subangular, well sorted, matrix supported, very poor visual porosity, no fluorescence

**INTERVAL:** 1114 - 1200

**ROP range:** 7.5 - 146

**Av ROP:** 43

**ARGILLACEOUS SILTSTONE WITH MINOR INTERBEDDED SANDSTONE.**

**ARGILLACEOUS SILTSTONE (90%):** grey brown to olive grey, very soft to soft, sticky to dispersive, abundant to very abundant argillaceous material, trace disseminated and nodular pyrite, trace carbonaceous detritus, trace glauconite trace lithic fragments, trace mica, grading in parts to silty - claystone.

**SANDSTONE (10%):** light grey colourless, transparent to opaque, loose, fine to medium minor coarse rare very fine and coarse grained quartz, subangular, to subrounded, moderately sorted, slightly spherical, 10% inferred porosity, no fluorescence.

**CONFIDENTIAL**

**INTERVAL:** 1200 - 1300  
**ROP range:** 17 - 123  
**Av ROP:** 46

**ARGILLACEOUS SILTSTONE WITH RARE SANDSTONE STRINGERS.**

**ARGILLACEOUS SILTSTONE (95%):** as above.

**Sandstone (5%):** white to very light grey, friable to loose, very fine to fine trace medium grained quartz, subangular, to subrounded, slightly spherical, moderately sorted to well sorted, trace calcareous cement, tight visual porosity, no fluorescence.

**INTERVAL:** 1300 - 1380  
**ROP range:** 3 - 190  
**Av ROP:** 70

**ARGILLACEOUS SILTSTONE WITH SANDSTONE.**

**ARGILLACEOUS SILTSTONE (75%):** as above.

**SANDSTONE (25%):** white, very light grey, colourless, clear to opaque friable to loose, very fine to fine minor medium grained quartz, subangular, to subrounded, moderately to well sorted, slightly spherical, weak calcareous cement in parts, minor to common brownish grey silt matrix, minor light grey argillaceous matrix, trace glauconite, trace lithic fragments, 5% intergranular porosity, no fluorescence.

**INTERVAL:** 1380 - 1435  
**ROP range:** 6 - 64  
**Av ROP:** 28

**ARGILLACEOUS SILTSTONE AND SILTY SANDSTONE**

**ARGILLACEOUS SILTSTONE (80%):** similar to above, minor disseminated very fine quartz sand, rare very fine carbonaceous material, rarely grades to Silty Claystone.

**SILTY SANDSTONE (20%):** very light grey to very light greenish grey to olive grey, very soft to soft, rarely friable to loose, very fine to medium grained, predominantly very fine to fine grained, subangular to subrounded, slightly spherical, poorly to moderately sorted, minor argillaceous matrix, trace glauconite, trace lithic fragments, no visible porosity, no fluorescence.

**INTERVAL:** 1435 - 1670  
**ROP range:** 7 - 100  
**Av ROP:** 42

**ARGILLACEOUS SILTSTONE INTERBEDDED WITH SILTY CLAYSTONE.**

**ARGILLACEOUS SILTSTONE (50%):** similar to above, dark yellowish brown to reddish brown, greenish grey to olive grey, very soft to soft, sticky, dispersive, trace to rare to minor very fine subangular to subrounded quartz grains, rare carbonaceous matter, trace pyrite, trace glauconite, trace lithic fragments, trace mica.

**SILTY CLAYSTONE (50%):** dark brownish grey to reddish brown, soft to very firm, very dispersive, rare very fine carbonaceous matter.

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

INTERVAL(mMDRT)	Total GAS (%)	CO <sub>2</sub> (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	C5 (%)
1060 - 1200	0.01 – 0.05	0.008 – 0.037	0.009 – 0.03	Nil	Nil	Nil	Nil	Nil
1200 - 1670	0.02 – 0.08	0.009 – 0.030	0.01 – 0.06					

**CONFIDENTIAL****HYDROCARBON FLUORESCENCE:**

Nil

**FORMATION PRESSURE ESTIMATION:**

No connection gas or cavings noted. A resistivity trend in the Belfast over the interval 1475 to 1525 mMDRT indicates possible overpressure but the trend does not continue to develop. Pore pressure is currently estimated to be normal.

**SAMPLE QUALITY:**

Adequate.

Samples taken at 10 m intervals to 1400 mMDRT (due to high ROP's) and at 5 m intervals from 1400 mMDRT.

**LWD**

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

**MUDLOGGING EQUIPMENT/PERSONNEL:**

All operational.

**WELLSITE GEOLOGISTS**

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