

DAILY GEOLOGICAL REPORT

Gilbert-1A

Report No. 6

Report Period: 00:00 – 24:00 hrs, 9th October 2005

		Wellsite Geologists: Geoff Geary / Rob Blackmore			
Rig	Ocean Patriot	WD (m)	51.3 m	Depth @ 00:00 hrs	810.0 m (TD) (788.5 m TVDSS)
Rig Type	Semi-Submersible	RT (m)	21.5 m	Depth Last Report (@ 00:00 hrs)	510.0 m (488.5 m TVDSS)
Spud	04/10/05 23:30 hrs	Last CSG (mRT)	340 mm (13 3/8") @ 331.0 mMDRT	24hr. Progress	300.0 m
Days from Spud	6	MW (SG)	1.08 sg	Last Survey	2.88 deg @ 798.19 mMDRT
Bit Size	311 mm (12 1/4")	Last FIT (SG)	1.44 sg EMW @ 341.8 mMDRT	Est.Pore Pressure	1.02 sg @ 810.0 m

Operations Summary

24hrs. Drilling Summary	Drilled ahead in 311mm (12 1/4") hole from 510.0 to 810.0 mMDRT. Called TD at 810.0 mMD RT. POOH to casing shoe for wiper trip. Circulated at the casing shoe. Prepared to run back to bottom.							
Current Status @ 06:00hrs (10 th October 2005)	Pulling out of hole to run wireline logs following completion of wiper trip.							
Lithological Summary 00:00-06:00 hrs	No further drilling. (See full summary below.)	<table border="0" style="font-size: small;"> <tr> <td colspan="2" style="text-align: center;">B-grd Gas %</td> </tr> <tr> <td style="text-align: center;">ave</td> <td style="text-align: center;">max</td> </tr> <tr> <td style="text-align: center;">N/A</td> <td style="text-align: center;">N/A</td> </tr> </table>	B-grd Gas %		ave	max	N/A	N/A
B-grd Gas %								
ave	max							
N/A	N/A							
Expected Next Activity	Complete wiper trip and POOH to log. Download LWD tools. Rig up to run wireline logs.							

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Cuttings Descriptions

Depth (mRT)		ROP (m/hr.)	Descriptions (Lithology / Shows)	Backgrnd gas%	
Top	BTM	Min.-Max. (Ave.)		ave	max
510	585	13.3-53.6 (31.8)	<p>Calcareous Claystone with minor interbedded Marl, Argillaceous Calcilutite and Calcilutite.</p> <p>Claystone (60-100%): calcareous, light grey to grey and brownish grey, trace to common light greenish grey, soft, amorphous to blocky, 15-25% calcareous matrix, trace-5% calcisilt, trace light brownish yellow fossil fragments (forams and spicules), trace fine dark green disseminated glauconite, trace fine pyrite, trace coarse nodular pyrite.</p> <p>Marl (0-20%): very light to light medium grey, very soft - soft, dispersive in part, amorphous, 35-45% clay matrix grading to <i>Argillaceous Calcilutite</i> in part, trace-5% calcisilt, trace fossil fragments and forams, interbedded with <i>Argillaceous Calcilutite</i>.</p> <p>Calcilutite (0-20%): soft to slightly firm, massive, very light to medium grey and greenish grey, trace dark grey, trace-30%, argillaceous matrix grading to <i>Calcilutite</i>, trace fossil fragments including coral debris, bryozoan, spicules, shell fragments and forams, trace fine dark green disseminated glauconite and trace-5% medium to coarse nodular glauconite, trace fine pyrite, trace coarse nodular pyrite.</p>	0.40	0.85
585	622	12.4-29.4 (19.7)	<p>Calcareous Claystone</p> <p>Claystone (100%): calcareous, light grey to brownish grey, trace light greenish grey, soft to amorphous, 15-25% calcareous matrix (micrite), trace-5% calcisilt, trace light brownish yellow fossil fragments, trace to abundant fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite, trace coarse nodular pyrite.</p>	0.60	1.17

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622	639	9.3-53.1 (20.5)	Interbedded and intergradational Sandstone, Siltstone and Claystone.	0.85	1.70
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Claystone (0-30%): light to medium greyish brown and light brownish yellow, soft – firm, hard in part, amorphous to blocky, rare-abundant (5-20%) silt-fine sandstone grading to *Silty Claystone*, trace fine to medium dark green glauconite, trace nodular pyrite.

Siltstone (20-80%): medium to dark yellowish brown, dark brown grey to brown black, quartz silt to very fine quartz, soft to firm, occasionally hard, non-calcareous, 10-20% detrital clay matrix, grading to *Argillaceous Siltstone*, locally arenaceous with 10-20% very fine quartz, grading to *Arenaceous Siltstone*, trace-15% fine to coarse glauconite, locally in patches, trace-1% white mica, soft, nil to very poor visible porosity.

Sandstone(20-80%): lithic arkose, medium yellowish brown to green, firm, friable to soft, loose in part, very fine - fine (dom vfU), subangular-subrounded, lithic with up to 40% lithic grains (chert, volcanic and feldspathic), moderately to very well sorted, 5-10% silt, 10-15% authigenic clay matrix (chlorite, kaolinite and minor illite/smectite), trace-10% detrital clay matrix, 5-10% mica (biotite and muscovite), trace-5% pyrite (framboidal in part), trace-10% dark lithics (titanium oxide with trace zircon and tourmaline), trace-10% fine glauconite, pelletal and nodular glauconite in part, poor – good inferred porosity.

Show: 20% dull to moderately bright yellow direct UV fluorescence, moderately fast blue-white cut fluorescence, solid yellowish-green ring residue.

639	660	7.6-46.0 (17.2)	Interbedded and intergradational Sandstone, Greensand, Siltstone and Claystone.	0.65	0.95
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Sandstone (30-80%): lithic arkose, medium yellowish brown-green, pale to dark yellowish brown and grey orange, quartz silt to fine quartz (dom vfU), sub-angular, low to medium sphericity, moderate to well sorted, trace - 20% quartz silt matrix, 5-10% detrital clay matrix, 10-25% authigenic clay (illite & smectite, chloritic & kaolinite) matrix, 5-15% coarse patchy and pelletal glauconite, trace-10% fine mica, 5-10% feldspar, trace-5% lithic fragments, firm to hard, nil to occasionally fair visible inter-granular porosity, no fluorescence.

Greensand (0-20%): dark yellowish green to dusky green, soft – firm, loose grains in part, very fine to coarse grained, trace nodular glauconite, trace – 20% quartz sand, trace shell fragments.

Siltstone (20-70%): medium to dark yellowish brown, firm-very firm, very soft in part, argillaceous, arenaceous with 5-10% very fine quartz sand, trace coarse glauconite, trace large forams (?Amphistegina), corals, bryozoan fragments.

Claystone (0-30%): “pisolitic”/glauconitic, pale yellowish brown to moderate brown, light grey, slightly calcareous, 20% well-rounded, medium to coarse dark brown, well-rounded fine-grained weathered glauconite pellets, generally firm, some soft, common reddish-brown areas which may be oxidized.

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Cuttings Descriptions

Depth (mRT)		ROP (m/hr.)	Descriptions (Lithology / Shows)	Backgrnd gas%	
Top	BTM	Min.-Max. (Ave.)		ave	max
660	672	6.9-35.8 (17.1)	<p>Sandstone with interbedded Claystone and minor coal.</p> <p>Sandstone (60-100%): lithic arkose, argillaceous, medium light grey, soft, friable, very fine to fine grained (vFL -fU) subrounded to angular, moderately sorted, variably quartzose, feldspathic & litharenitic, 40-65% lithic fragments (volcanic, sedimentary and chert), 10-25% authigenic clay matrix (illite & smectite, chloritic & kaolinite), trace detrital clay matrix, non-calcareous, trace siderite and pyrite cement, nil - poor visible intergranular porosity, no fluorescence.</p> <p>Claystone (0-40%): white to light grey, light greenish-grey in part, soft, dispersive, to firm, blocky, trace – 10% silty/sandy in part, trace chloritic matrix, trace fine pyrite.</p> <p>Coal (Tr-0%): black, firm, brittle, fibrous, trace fine pyrite, large fragments.</p>	0.40	2.01
672	711	9.4-51.1 (19.5)	<p>Claystone with interbedded Sandstone and minor coal.</p> <p>Claystone (50-95%): white to light grey, light greenish-grey, light brownish-grey, soft, dispersive to firm - hard, blocky, trace – 10% silty/sandy in part, trace-10% chloritic matrix/cement in part, trace fine carbonaceous fragments in part, trace fine pyrite incl. pyritic lamination.</p> <p>Sandstone (5-50%): lithic arkose, argillaceous, medium light grey, soft, friable, dispersive, very fine to fine grained (vFL -fU), subrounded to angular, moderately sorted, variably quartzose, feldspathic & litharenitic, 40-65% lithic fragments (volcanic, sedimentary and chert), 10-25% authigenic clay matrix (illite & smectite, chloritic & kaolinite), trace detrital clay matrix, non-calcareous, trace-10% siderite and pyrite cement, trace very coarse pyrite nodules enclosing sand grains, nil - poor visible intergranular porosity, no fluorescence.</p> <p>Coal (Tr-0%): brownish black to black, firm to hard, blocky, brittle, dull lustre, interbedded with <i>Claystone</i> in part, trace fine pyrite, large fragments.</p>	0.5	2.66
711	770	6.0-71.3 (16.6)	<p>Sandstone with interbedded Claystone, Carbonaceous Claystone and minor coal.</p> <p>Sandstone (5-100%): lithic arkose, argillaceous, medium light grey greyish orange to dark yellowish orange, greenish grey, black, soft to firm, friable, loose in part, hard in part, blocky, very fine to coarse grained (vFL-cU) subrounded to angular, moderately to well sorted, variably quartzose with 40-65% feldspathic, litharenitic & lithic fragments (volcanic, sedimentary and chert), trace-25% authigenic clay matrix (illite & smectite, chloritic & kaolinite), trace detrital clay matrix, non-calcareous to slightly calcareous with trace-5% siderite, carbonate and trace pyrite cement, nil- poor visible intergranular porosity, no fluorescence.</p>	0.2	2.20

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Claystone (0-95%): light to medium grey, light greenish-grey in part, soft, dispersive to firm - hard, blocky, splintery in part, trace-10% silty/sandy in part, trace-10% chloritic matrix/cement in part, trace-40% fine carbonaceous fragments in part, finely laminated in part with dark brown to black carbonaceous laminae and partings, grading to *Carbonaceous Claystone* in part, trace fine pyrite incl. pyritic lamination.

Claystone (Tr-20%): carbonaceous, moderate brown to greyish-brown, firm, blocky, splintery in part, trace-10% silty/sandy in part, trace-40% fine carbonaceous fragments in part, finely laminated in part with dark brown to black carbonaceous laminae and partings, trace fine pyrite incl. pyritic lamination.

Coal (Tr-0%): brownish black to black, firm to hard, blocky, brittle, dull lustre, interbedded with *Claystone* in part, trace fine pyrite, large fragments.

770	810	3-19 (8.3)	Massive Sandstone	0.06	0.12
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Sandstone (100%): lithic arkose, light to medium-light grey and greenish grey, soft to firm, friable, hard in part, blocky, loose coarse to very coarse quartzose grains in part, very fine to very coarse grained (vfL-vcU, dom. fU-mL), subrounded to angular, poorly to well sorted, variably quartzose with 25-60% feldspathic, litharenitic & lithic fragments (volcanic, sedimentary and chert), trace-25% authigenic clay matrix (illite & smectite, chloritic & kaolinite), trace-10% detrital clay matrix, grading to *Argillaceous Sandstone* in part, slightly calcareous with trace-10% siderite, carbonate cement and trace-5% pyrite cement in part, trace carbonaceous grains, laminae and partings, nil visible intergranular porosity, no fluorescence.

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Gas Data

Depth (mRT)	Type	% TG	C1 ppm	C2	C3	iC4	nC4	iC5	NC5
510-585	BG	0.56	5357	14	1	19	1	2	2
585-622	BG	0.68	6483	17	1	26	1	2	2
622-632	BG	0.93	8568	28	1	34	2	2	2
632	P	1.70	15790	67	0	59	3	1	2
632-647	BG	0.93	8793	27	1	36	2	3	2
647	P	0.90	8499	19	2	32	1	2	1
647-651	BG	0.67	6357	17	2	26	1	2	2
651	P	0.95	9029	36	12	37	3	7	8
651-660	BG	0.45	4209	9	2	18	1	2	2
660-667	BG	0.54	5004	6	2	21	1	2	2
667	P	2.01	18253	0	0	70	1	2	2
667-672	BG	0.74	6932	3	2	27	1	2	2
672-691	BG	0.47	4426	8	2	15	1	2	2
691	P	1.34	12985	6	1	3	1	2	1
691-700	BG	1.11	10679	2	1	10	1	3	2
700	P	2.66	26319	0	0	2	2	2	1
700-738	BG	0.54	4880	3	2	12	1	4	2
738	P	2.20	17494	0	0	51	1	3	1
738-780	BG	0.24	2174	3	2	11	3	4	2
780	P	0.12	1164	3	1	10	1	1	2
780-810	BG	0.06	508	3	3	6	2	5	3

Type: TG-Total Recorded Gas (%), BG-Back Ground (%), P-Peak, C-Connection, T-Trip, W-Wipertrip, FC-Flow Check, P-Pumps off

Oil Show

Depth (mRT)	Oil stain	Fluor%	Colour	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG
633	No	20 %	Dull to Mod. Bright Yellow	Patchy	Moderately Fast Blue-White	Solvent	Solid White-Yellow	1.7%	0.3%
636	No	20 %	Dull to Mod. Bright Yellow	Patchy	Moderately Fast Blue-White	Solvent	Solid White-Yellow	1.0%	0.3%

Mud Data

@ 810.0 mRT

Mud Type	MW (sg)	Viscosity PVYP	API Fluid Loss (cc)	HTHP Fluid Loss (cc)	LGS %	Ph	Glycol (mg/l)
KCL/PHPA	1.08	16/26	7	-	2.4	8	-

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Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed** (mRT)	Actual* (mRT)	Difference (High/Low) (m)	Based on
Sea bed (sf)	71.5	72.8	1.3 L	Seabed survey
Lakes Entrance Fm	425.5	436.0	10.5 L	Cuttings
Gumard Fm	616.5	622.0	5.5 L	LWD
Latrobe Coarse Siliciclastics	672.5	660.0	12.5 H	Cuttings
Strzelecki Group	795.5	672.0	123.5 H	Cuttings
Total Depth	910.5	810.0		TD

* Wellsite pick

Comments

1. Provisional wireline logging program:
 Run 1 : PEX(HALS)-DSI-LEHQT
 Run 2 : CMR-HNGS
 Run 3 : MDT-GR
 Run 4 : MSCT-GR
 Run 5 : VSP/Checkshot

2. Elevated iC4 gas readings are still under investigation by Geoservices and may reflect a new mud additive (Magnafloc) added by the MI-Swaco mud engineers. Chemical information is being sought after. It is not thought to be related to the Petrotech mud tracer which is an inorganic salt.

3. Wireline Logging Mud data:
 Rmf = 0.111 at 21 degC
 Rm = 0.126 at 30 degC
 Rmc = 0.139 at 19 degC

-----END OF REPORT-----