

**DAILY GEOLOGICAL REPORT**DATE: 27 Dec 2011
REPORT NO.: 39
(associated DDR # 39)**WELL: Surprise 1**

RIG	Hunt Rig #3	RIG TYPE	Land
COMPLETION TYPE		TARGET	Lower Stairway Sandstone
Depth at Midnight (MD)	2,615.0 m	SPUD DATE	
DAYS SINCE SPUD	0.00 (Days on well: 38.29)	LAST CASING	7.000 in @ 2,426.00 m MD
PRESENT DEPTH MD	2,593.0 m	BACKGROUND GAS	20.00 Unit @ 2,616.0 m
24 Hr Progress	21.40 m	MAX GAS	40.00 Unit @ 2,595.0 m
AVERAGE ROP	4.00 m/h	ECD	
Operations Status @ 0600hrs		ESTIMATED PORE PRESSURE	
PROGNOSSED TD	3,928.0m MD 2,551.0m TVD		

Well Details

Latitude:	23.00° 42.00" 50.76' South	UTM(N/S):	7377073N m N	RT - MSL:	3.66 m RT GL
Longitude:	129.00° 59.00" 36.09' East	UTM(E/W):	601261E m E	GL Elevation:	545.0 m

Operations Summary and General Remarks

OPERATION SUMMARY:	ran hole to 2430m, circ bu. sample oil at shakers.pump off test at 2593m, Connection gas evident.
LITHOLOGY SUMMARY:	Sandstone with minor siltstone
HYDROCARBON SHOWS:	Fluorescence/cut in sample, oil at shakers after trip and constant breakout of oil at shakers during circulation. Strong petrolif odour at shakers.
NEXT OPERATION:	continue geosteering horizontally to TD

Lithology Summary

Interval MDBRT (m) From To	Lithology	%	Description
2,592.00 - 2,616.00	Sandstone with mnr siltstone	90-100	Sandstone clear to translucent, light grey, friable to hard, commonly loose grains, very fine to coarse, predominantly medium, common vf-f aggregates in parts, moderately well sorted, common quartz overgrowths, trace disseminated microcrystalline pyrite,trace brown intergranular carbonaceous matter, poor to fair inferred porosity, oil show (oil at shakers), 100% dull yellow, fluorescence, abundant bri yelwh pinpoint fluor, weak immediate blu/wh diffuse cut, pale blu white residual film.
	Siltstone	0-10	dark grey-dark grey brown, hard, sub fissile to splintery, very argillaceous, trace carbonaceous matter.

Gas Readings

Depth (m)	Total Gas (Units)	BGG (Units)	C1 (ppm)	%C1 (%)	C2 (ppm)	%C2 (%)	C3 (ppm)	%C3 (%)	iC4 (ppm)	%iC4 (%)	nC4 (ppm)	%nC4 (%)	iC5 (ppm)	%iC5 (%)	nC5 (ppm)	%nC5 (%)	He (ppm)	Hydro- carbons (ppm)
2,593.00	999.000		- 44,841		- 17,714		- 13,581		- 3,499		- 9,415		- 4,052		4,968			
Gas Type Trip			Comment-															
2,595.00	40.000		- 434		- 360		- 517		- 177		- 497		- 187		- 265			
Gas Type Peak			Comment-															
2,616.00		20.00	- 187		- 141		- 230		- 88		- 248		- 108		- 159			
Gas Type Background			Comment- 2592-2616															

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Depth 2,592.00m - 2,616.00m

Rating:	Good	White Light Stain:	light brown
Percentage:	100	White Light Cut:	nil
Lithology:	Sandstone	White Light Residue:	nil
Speed:		UV Fluoresce:	dull yel wiht bright yel/wh pinpt
Intensity:		UV Cut Fluoresce:	imm diffuse pale blu/wh
Description:	clear to translucent, light grey, friable to hard, commonly loose grains, fine to coarse, predominantly medium, moderately well sorted, common quartz overgrowths, trace disseminated microcrystalline pyrite, trace brown intergranular carbonaceous matter, poor to fair inferred porosity	UV Residue:	bri yel ring, pale blu/wh film

Prognosis and Preliminary Correlation

Top	Actual Depth (3.66 m RT GL)			Prognosis	H/L	Pick Criteria	Remarks
	MD	TVD	TVD(GL)	MD			
Undiff Pertinjarra	778.46	778.46	774.80	758.46	20.0 L		
Parkes	1,294.46	1,294.46	1,290.80	1,302.46	8.0 H	Lith	Lithology change
Mereenie Fm	1,760.00	1,760.00	1,756.34	1,782.46	22.5 H	ROP	ROP and Lithology Change
Stokes	2,275.00	2,275.00	2,271.34	2,449.46	174.5 H	E-log	Lithology Change
Stairway FM	2,447.00	2,447.00	2,443.34	2,579.46	132.5 H	E-log	Lithology Change
Horn Valley Siltstone	2,561.00	2,561.00	2,557.34	2,654.46	93.5 H	E-log	Lithology Change
Pacoota Sst	2,613.00	2,613.00	2,609.34	2,692.46	79.5 H	Lith	Clean water wet P1

Well Geologist

Lindsay Cullen/Mike Harrison