

**DAILY GEOLOGICAL REPORT**DATE: 30 Dec 2011  
REPORT NO.: 42  
( associated DDR # 42 )**WELL: Surprise 1**

RIG	Hunt Rig #3	RIG TYPE	Land
COMPLETION TYPE		TARGET	Lower Stairway Sandstone
Depth at Midnight (MD)	2,778.0 m	SPUD DATE	
DAYS SINCE SPUD	0.00 ( Days on well: 41.29)	LAST CASING	7.000 in @ 2,426.00 m MD
PRESENT DEPTH MD	2,797.0 m	BACKGROUND GAS	30.00 Unit @ 2,778.0 m
24 Hr Progress	82.00 m	MAX GAS	131.00 Unit @ 2,771.0 m
AVERAGE ROP	2.00 m/h	ECD	
Operations Status @ 0600hrs	drilling ahead sliding	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:	pulled out to change bit and MWD. Ran in, reamed to bottom, continued drilling. NB MWD failed.
LITHOLOGY SUMMARY:	Sandstone with minor claystone
HYDROCARBON SHOWS:	significant volume of oil to surface after trip. shows continue in cuttings as before.
NEXT OPERATION:	continue geosteering to target

**Lithology Summary**

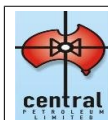
Interval MDBRT (m) From To	Lithology	%	Description
2,762.00 - 2,778.00	Sandstone minor claystone	80-100	<b>Sandstone</b> lt gy brn, clear to translucent grs, loose to friable, very fine to fine, occasionally medium, sa-sr, well sorted, silty ip , tr -com kaol, com sil cmt, pr inf por, good show. 100% dull to moderately bri yel fluor, immed slow diffuse pale yel/wh cut, mod bri yel wh ring with pale blu/wh film residue.
	Claystone	tr-20	med -dk gry brn, occ red brn, hard, blocky-sbfiss, silty, micromicaceous.

**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)
276.00	149.000		- 3,621	32.00	- 1,848	17.00	- 2,410	21.00	- 587	6.00	- 1,634	14.00	- 455	4.00	- 627	6.00		
<b>Gas Type</b> Trip			<b>Comment-</b>															
2,771.50	131.000		- 966	13.00	- 725	10.00	- 1,498	21.00	- 628	8.00	- 1,717	24.00	- 730	7.00	- 1,021	17.00		
<b>Gas Type</b> Peak			<b>Comment-</b>															
2,778.00		27.00	- 225	17.00	- 158	12.00	- 280	21.00	- 99	9.00	- 259	18.00	- 119	8.00	- 179	15.00		
<b>Gas Type</b> Background			<b>Comment-</b> 2763-2778															

**Oil Shows**

Depth 2,762.00m - 2,778.00m			
Rating:	Good	White Light Stain:	light brown
Percentage:	100	White Light Cut:	colourless
Lithology:	Sandstone	White Light Residue:	colourless
Speed:		UV Fluoresce:	dull to mod bri yell solid
Intensity:		UV Cut Fluoresce:	imm diffusing mod bri yel wh
Description:	lt gy brn, clear to translucent grs, loose to friable, very fine to fine, occasionally medium, sa-sr, well sorted, silty ip , tr kaol, com sil cmt, pr inf por,	UV Residue:	mod bri yel/wh ring



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### 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