



## DAILY GEOLOGICAL REPORT

DATE: 27 Nov 2011  
REPORT NO.: 9  
( associated DDR # 9 )

## WELL: Surprise 1

|                             |                                 |                         |                                       |
|-----------------------------|---------------------------------|-------------------------|---------------------------------------|
| RIG                         | Hunt Rig #3                     | RIG TYPE                | Land                                  |
| COMPLETION TYPE             |                                 | TARGET                  | Stairway Sandstone, Pacoota Sandstone |
| Depth at Midnight (MD)      | 2,584.0 m                       | SPUD DATE               |                                       |
| DAYS SINCE SPUD             | 0.00 ( Days on well: 8.29)      | LAST CASING             | 9.625 in @ 1,450.00 m MD              |
| PRESENT DEPTH MD            | 2,599.0 m                       | BACKGROUND GAS          | 0.00 Unit                             |
| 24 Hr Progress              | 28.00 m                         | MAX GAS                 | 0.00 Unit                             |
| AVERAGE ROP                 | 31.00 m/h                       | ECD                     |                                       |
| Operations Status @ 0600hrs | Drilling ahead in HVS at 2599m. | ESTIMATED PORE PRESSURE |                                       |
| PROGNOSSED TD               | 2,750.0m MD 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: | Tag old hole base Lower Stairway Sst. Drill into Horn Valley Siltstone Fmn from 2556.4 m to 2585m.                  |
| LITHOLOGY SUMMARY: | Claystone and siltstone interbeds of the HVS, with minor sandstone stringers, and traces of dolomite and limestone. |
| HYDROCARBON SHOWS: | 2555 - 2583 m Sandstones in HVS exhibit 80-100 HC fluorescence with slo-moderate cut                                |
| NEXT OPERATION:    | Drill ahead through Horn Valley Siltstone from 2585m and then drill ahead thorough Pacoota Sandstone.               |

## Lithology Summary

| Interval MDBRT (m)<br>From To | Lithology                                         | %                                                                                             | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2,556.00 - 2,574.00           | Claystone, Siltstone interbeds, minor Sandstone   | Claystone: 30-95%,<br>Siltstone: 5-60%,<br>Sandstone: Tr-15%                                  | <b>Claystone</b><br>CLAYSTONE: m gy-d gy, occ blk, mod hd-hd, occ v hd, predom sbbclky, occ sbfss, r fss, silty i/p, tr nod pyr, tr micxln diss pyr, tr micmic, grding to arg SILTSTONE.<br>SILTSTONE: lt gy, occ d gy, r rd brn, mod hd-hd, sbbkly-sbfss, tr micmic, tr pyr, grding to silty CLAYSTONE.<br>SANDSTONE: Clr-trnsl, occ lt gy, r d gy, mod hd-hd, f-crs, occ crs, r vf, sa-rnd, pr-mod srt, cmn dk gy crs sil and calc cmt aggs, tr to cmn calc, dol, and sil cmt, tr weath arkose, tr weath feld, tr piso fe-stone, tr nod pyr, tr dis micxln pyr, tr blk liths, pr-gd vis por.                                                                                                                                                     |
|                               | SST, with CLYST and SLTST interbeds, mntr DOL/LST | Sandstone: 60-85%,<br>Claystone: 10-20%,<br>Siltstone: 5-10%,<br>Dolomite 5%,<br>Limestone 5% | SANDSTONE: Clr-trnsl, occ lt gy, r d gy, mod hd-hd, f-crs, occ crs, r vf, sa-rnd, pr-mod srt, cmn dk gy crs sil and calc cmt aggs, tr to cmn calc, dol, and sil cmt, tr weath arkose, tr weath feld, tr piso fe-stone, tr nod pyr, tr dis micxln pyr, tr blk liths, pr-fr vis por. CLAYSTONE: m gy-d gy, cmn gy-grn, occ grn-gy, occ blk, mod hd-hd, occ v hd, predom sbbclky, occ sbfss, r fss, silty i/p, tr nod pyr, tr micxln diss pyr, tr micmic, grding to arg SILTSTONE. SILTSTONE: lt gy, occ d gy, r rd brn, mod hd-hd, sbbkly-sbfss, tr micmic, tr pyr, grding to silty CLAYSTONE. DOLOMITE: Grn-gy, calcilutite, hd, blk, crypxln, arg i/p, no vis por. LIMESTONE: Wh, off wh, occ lt gy, sft, blkgy-sbfss, micxln-crypxln, no vis por. |

## Oil Shows

Depth 2,556.00m - 2,583.00m

|              |                                                                                                                  |                      |                           |
|--------------|------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------|
| Rating:      | Fair                                                                                                             | White Light Stain:   | Trace pale-lt brn         |
| Percentage:  | 100                                                                                                              | White Light Cut:     | nil                       |
| Lithology:   | Sandstone                                                                                                        | White Light Residue: | thick pale brn rr         |
| Speed:       |                                                                                                                  | UV Fluoresce:        | v dull-dull yel-gold      |
| Intensity:   |                                                                                                                  | UV Cut Fluoresce:    | v slo diffuse-blmg blu wh |
| Description: | v dull-dull yel gold fluor, v slo-slo diffuse-blooming blu wh cut, tr-nil crush cut, pale dull yel gold res/ring | UV Residue:          | thick dull yel gold       |



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Prognosis and Preliminary Correlation

| Top                   | Actual Depth<br>(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           | 1,766.46                       | 1,766.46 | 1,762.80 | 1,782.46  | 16.0 H  | ROP           | ROP and Lithology Change |
| Stokes                | 2,280.46                       | 2,280.46 | 2,276.80 | 2,449.46  | 169.0 H | Lith          | Lithology Change         |
| Stairway FM           | 2,448.46                       | 2,448.46 | 2,444.80 | 2,579.46  | 131.0 H | Lith          | Lithology Change         |
| Horn Valley Siltstone | 2,556.40                       | 2,556.20 | 2,552.74 | 2,654.46  | 98.1 H  | Lith          | Lithology Change         |

Well Geologist

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