Australian Drilling Associates Pty Ltd ADA

**DRILLING MORNING REPORT # 16**

**16 Aug 2008** **From:** S De Freitas/S Schmidt.
**To:** R Oliver

# Longtom-4 H

## Well Data

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Country | Australia | MDBRT | 4648.0m | Cur. Hole Size | 9.500in | AFE Cost | AUD$81,987,600 |
| Field | Longtom | TVDBRT | 2695.9m | Last Casing OD | 7.000in | AFE No. | LSRDV01/6 |
| Drill Co. | Seadrill | Progress | 0.0m | Shoe TVDBRT | 2590.8m | Daily Cost | AUD$673,800 |
| Rig | West Triton | Days from spud | 56.94 | Shoe MDBRT | 4647.0m | Cum Cost | AUD$56,848,000 |
| Wtr Dpth (MSL) | 55.968m | Days on well | 16.00 | FIT/LOT: | 1.68sg / | | |
| RT-ASL (MSL) | 41.100m | Planned TD MD | 5822.000m | Current Op @ 0600 | Cementing 7in liner. | | |
| RT-ML | 97.068m | Planned TD TVDRT | 2702.000m | Planned Op | POOH. Lay out RTTS and TCP. Rig up Schlumberger wireline and perforate 7in liner. | | |

## Summary of Period 0000 to 2400 Hrs

RIH with TCP/RTTS assembly to 4560m bottom of TCP gun and set RTTS. Perforated 7in liner over interval 4560m - 4558m. Established circulation with Halliburton. Lined to rig pumps, circulated and conditioned mud.

## HSE Summary

| Events | Num. Events | Days Since | Descr. | Remarks |
|---|---|---|---|---|
| Abandon Drill | | 6 Days | Held at 10.30 hours. | Rig alarms activated. Fire and Abandon drill conducted. |
| BOP Test | | 2 Days | Pressure tested BOPs. | 14 Days - 18th August<br>21 Days - 04th Sept |
| Dropped Object | | 34 Days | Broken bolt on Link Tilt bracket. | When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break. The end of the bolt (10mm x 50mm) fell to the rig floor. Clamp remained coupled to the Bail Arm. |
| Incident | | 9 Days | Environmental spill. | Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard. |
| Medical Treatment Case | | 3 Days | Strained lower back from slip. | Medic strained her when she slipped on a wet spot on the floor at the galley, causing pain to the lumbar area of her back. Self administered First Aid and RTW. |
| PTW issued | 17 | 0 Days | | Permit to work issued for the day. |
| Safety Meeting | 2 | 0 Days | Weekly Safety Meetings with crews. | Weekly safety meeting held at 1300hrs Saturday and 0045hrs on Sunday. |
| STOP Card | 25 | 0 Days | | Stop cards submitted for the day. |

## Operations For Period 0000 Hrs to 2400 Hrs on 16 Aug 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|---|---|---|---|---|---|---|---|
| P19 | TP (DH) | G8 | 0000 | 0930 | 9.50 | 4648.0m | RIH with 3.375in TCP assembly picking up 3.5in drill pipe to 1592.7m. Picked up and made up 7in RTTS to string. Continued to RIH picking up 3.5in drill pipe to 2003.9m. |
| P19 | TP (DH) | G1 | 0930 | 1000 | 0.50 | 4648.0m | Changed out bails and elevators. |
| P19 | TP (DH) | G1 | 1000 | 1100 | 1.00 | 4648.0m | RIH with one stand of 5.5in drill pipe. Made up cement stand and racked back same. |
| P19 | TP (DH) | G8 | 1100 | 1130 | 0.50 | 4648.0m | RIH with 5.50in drill pipe to 2241m. |
| P19 | TP (DH) | F4 | 1130 | 1200 | 0.50 | 4648.0m | Observed back flow in string at 2241m. Made up TDS and circulated to balance mud. |
| P19 | TP (DH) | G8 | 1200 | 1930 | 7.50 | 4648.0m | Continued to RIH with TCP/RTTS assembly to 4545m: no resistance observed upon entering TOL with TCP gun or RTTS. |
| P19 | TP (DH) | F4 | 1930 | 2000 | 0.50 | 4648.0m | Broke circulation at 1.40 bbls min/400 psi: good returns. Picked up and made up cement stand. |
| P19 | TP (DH) | G10 | 2000 | 2030 | 0.50 | 4648.0m | Placed bottom of TCP at 4560m. Set RTTS at 2966.3m with 5 turns to the right and confirmed set with 25k down. |
| P19 | TP (DH) | C5 | 2030 | 2130 | 1.00 | 4648.0m | Held JSA and rigged up cement lines. Halliburton tested cement lines to 3,000 psi for 5 mins. Applied 2,500 psi down string to activate TCP and bled off pressure to 400psi. Observed TCP fire with 200psi pressure decrease in string.<br><br>Interval perforated 4560m - 4558m with 3.375 inch Predator Perfform HMX 6 SPF. |
| P19 | TP (DH) | F4 | 2130 | 2200 | 0.50 | 4648.0m | Halliburton established circulation and pumped 1.1 bbls mud, pressure held at 850 psi. Increased pressure to 1500 psi and obtained returns. Pumped 20 bbl/s mud while increasing pump rate up to 3.6 BPM at 1450 psi and observed 20bbls returns to trip tank. |

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|---|---|---|---|---|---|---|---|
| P19 | TP (DH) | F4 | 2200 | 2400 | 2.00 | 4648.0m | Lined up to rig pumps and continued circulation, increased pump rate to 5 bbls/min at 1500 psi: good returns, no losses. Once 200 bbls pumped observed mud weight out at 11.5 ppg. Once 400bbls pumped observed mud weight out at 10.9ppg. Circulated and conditioned mud, dusted barite to balance weight. |

## Operations For Period 0000 Hrs to 0600 Hrs on 17 Aug 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|---|---|---|---|---|---|---|---|
| P19 | TP (DH) | F4 | 0000 | 0100 | 1.00 | 4648.0m | Circulated and conditioned mud for even weight in and out at 12.10ppg. |
| P19 | TP (DH) | F4 | 0100 | 0130 | 0.50 | 4648.0m | Unset 7in RTTS. Circulated at 6.6 bbls/min at 2400 psi for 15 mins. |
| P19 | TP (DH) | G8 | 0130 | 0330 | 2.00 | 4648.0m | POOH 6m: observed swabbing. Reset 7in RTTS and opened circulation valve, unset RTTS. Continued POOH to 2590m, 7in RTTS depth. No further swabbing observed. |
| P19 | TP (DH) | G10 | 0330 | 0400 | 0.50 | 4648.0m | Made up cement stand and set 7in RTTS at 2590m with 5 turns to the right and confirmed set with 25k down. |
| P19 | TP (DH) | F3 | 0400 | 0600 | 2.00 | 4648.0m | Held JSA and rigged up cement lines. Halliburton tested lines to 3,000 psi. Pumped 30 bbls fresh water spacer followed by 60 bbls of 13.5 ppg Tuned Spacer and 10 bbls of fresh water at 8 BPM. Mixed and pumped 138 bbls of "HBT" grade cement slurry at 15.0 ppg. Commenced displacement with 10 bbls fresh water and SBM.<br><br>Theoretical top of cement within 7in liner at 4520m.<br>Theoretical top of cement within 7in liner/ 9.50 inch hole at 3550m. |

## Operations For Period Hrs to Hrs on

## Phase Data to 2400hrs, 16 Aug 2008

| Phase | Phase Hrs | Start On | Finish On | Cum Hrs | Cum Days | Max Depth |
|---|---|---|---|---|---|---|
| Production Hole (2)(P12) | 260.5 | 01 Aug 2008 | 11 Aug 2008 | 260.50 | 10.854 | 4648.0m |
| Liner (1)(P19) | 123.5 | 11 Aug 2008 | 16 Aug 2008 | 384.00 | 16.000 | 4648.0m |

## SBM Data

**Cost Today AUD$ 17221**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mud Type: | ACCOLADE | HTHP-Temp: | 120C° | Ex.Lime: | | Solids(%vol): | 20% | Viscosity | 134sec/qt |
| Oil Type: | ACCOLADE BASE | HTHP: | 500psi | Salinity: | 262548mg/l | H2O: | 22% | YP | 35lb/100ft² |
| Sample-From: | Flowline | HTHP-FL: | 4.0cc/30min | Elec.Stab.: | 305mV | Oil(%): | 56% | PV | 55cp |
| Time: | 23:59 | HTHP-cake: | 2/32nd" | | | Sand: | 0.2 | O/W Ratio: | 72/28 |
| Weight: | 12.30sg | CaCl mud: | 27.44 | | | LGS: | 8% | Gels 10s | 14 |
| Temp: | 30C° | CaCl WP: | | | | Oil On Cut: | | Gels 10m | 25 |
| | | | | | | | | Fann 003 | 11 |
| | | | | | | | | Fann 006 | 13 |
| | | | | | | | | Fann 100 | 40 |
| | | | | | | | | Fann 200 | |
| | | | | | | | | Fann 300 | 90 |
| | | | | | | | | Fann 600 | 145 |

Comment: Prepare 60bbl tuned spacer in slug pit weighted to 13.5ppg with Barite. Transfer SBM from active to cement unit as required for TCP gun operations. When circulation achieved, Barite slump observed with mud returning from the well at 10.9ppg to 11.8ppg. Added Barite to active to maintain mud weight and circulate until mud weight consistent. Received approx. 692bbl 11.3ppg Brine from Valkyrie.

## Bulk Stocks

| Name | Unit | In | Used | Adjust | Balance |
|---|---|---|---|---|---|
| Drill Water | MT | 0 | 6 | 0 | 170.0 |
| Rig Fuel | m3 | 0 | 9 | 0 | 221.0 |
| POTABLE WATER | MT | 12 | 24 | 0 | 243.0 |
| Cement class \'G\' | MT | 0 | 0 | 0 | 52.0 |
| Bentonite | MT | 0 | 0 | 0 | 45.0 |
| Barite | MT | 0 | 10 | 0 | 55.0 |
| SOBM | m3 | 0 | 0 | 0 | 2.0 |
| Brine | m3 | 0 | 111 | 0 | 63.0 |
| BLENDED CEMENT | MT | 0 | 0 | 0 | 81.0 |

## Pumps

**Pump Data - Last 24 Hrs**

| No. | Type | Liner (in) | MW (sg) | Eff (%) | SPM (SPM) | SPP (psi) | Flow (gpm) |
|---|---|---|---|---|---|---|---|
| 1 | National 14 P-220 | 6.50 | 1.44 | 97 | | | |

**Slow Pump Data**

| Depth (m) | SPM1 (SPM) | SPP1 (psi) | Flow1(gpm) | SPM2 (SPM) | SPP2 (psi) | Flow2 (gpm) | SPM3 (SPM) | SPP3 (psi) | Flow3 (gpm) |
|---|---|---|---|---|---|---|---|---|---|
| 4558.0 | 20 | 400 | 117 | 30 | 550 | 176 | 40 | 720 | 234 |

## Pumps

| Pump Data - Last 24 Hrs | | | | | | | | Slow Pump Data | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2 | National 14 P-220 | 6.50 | 1.44 | 97 | | | | 4558.0 | 20 | 400 | 117 | 30 | 550 | 176 | 40 | 700 | 234 |
| 3 | National 14 P-220 | 6.50 | 1.44 | 97 | | | | 4558.0 | 20 | 380 | 117 | 30 | 525 | 176 | 40 | 700 | 234 |

## Casing

| OD | LOT / FIT | Csg Shoe (MD/TVD) | Cementing |
|---|---|---|---|
| 30 " | / | 128.80m / 128.80m | 168bbl class G at 15.9ppg, 200% excess. |
| 16 " | / | 750.03m / 750.03m | Lead 516 bbls "G" class at 12.5ppg. Tail 229 bbls "G" class at 15.80 ppg |
| 10 3/4" | / 1.68sg | 2590.78m / 2337.57m | 200bbl class "G" at 15.8ppg, TOC at 1900m |
| 7 " | / | 4647.00m / 2699.37m | Mixed and pumped 138 bbls "HBT" grade cement slurry at 15.0 ppg through perforations at 4560m - 4558m. Theoretical top of cement in 7 inch liner at 4520m |

## Personnel On Board

| Company | Pax |
|---|---|
| ADA | 4 |
| Seadrill | 13 |
| Seadrill Services. | 35 |
| Catering | 9 |
| Halliburton | 2 |
| Baker Hughes Inteq | 2 |
| Halliburton | 3 |
| Tamboritha | 3 |
| Q Tech | 1 |
| Tasman Oil Tools | 4 |
| Reach | 1 |
| Baker Atlas | 6 |
| Expro Group | 2 |
| Scottech | 2 |
| Schlumberger | 3 |
| Total | 90 |

## Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Gerald Lange/Tim Waldhuter

| Available | 1728.6bbl |
|---|---|
| Active | 365.0bbl |
| Mixing | |
| Hole | 1323.9bbl |
| Slug | |
| Reserve | 39.7bbl |
| Kill | |

| Losses | 0.0bbl |
|---|---|
| Downhole | |
| Surf+ Equip | 0.0bbl |
| Dumped | |
| De-Gasser | |
| De-Sander | |
| De-Silter | |
| Centrifuge | |

| Equipment | Description | Mesh Size |
|---|---|---|
| Shaker 1 | VSM-300 | 280 |
| Shaker 2 | VSM-300 | 280 |
| Shaker 3 | VSM-300 | 280 |
| Shaker 4 | VSM-300 | 280 |

Comments

## Marine

Weather on 16 Aug 2008

| Visibility | Wind Speed | Wind Dir. | Pressure | Air Temp. | Wave Height | Wave Dir. | Wave Period |
|---|---|---|---|---|---|---|---|
| 10.0nm | 25kn | 245.0deg | 1014.0mbar | 9C° | 3.0m | 230.0deg | 4s |

| Rig Dir. | Ris. Tension | VDL | Swell Height | Swell Dir. | Swell Period | Weather Comments |
|---|---|---|---|---|---|---|
| 24.1deg | 440.00klb | 2523.00klb | 4.0m | 230.0deg | 6s | Wave and swell heights are estimates. |

Comments

| Vessel Name | Arrived (Date/Time) | Departed (Date/Time) | Status |
|---|---|---|---|
| Pacific Battler | | 23.30 | On route to location. ETA location 19.30 17-08-08. |

| Bulks | | | |
|---|---|---|---|
| Item | Unit | Used | Quantity |
| Rig Fuel | m3 | | 340 |
| Potable Water | Mt | | 450 |


Printed on 18 Aug 2008

| | | | | Item | Unit | Used | Quantity |
|---|---|---|---|---|---|---|---|
| | | | | Drill Water | Mt | | 190 |
| | | | | CEMENT G | Mt | | 0 |
| | | | | Barite | Mt | | 84 |
| | | | | Bentonite | Mt | | 0 |
| | | | | Base Oil | m3 | | 0 |
| | | | | Brine | m3 | | 100 |
| **Pacific Valkyrie** | 22.00 | | On location | **Item** | **Unit** | **Used** | **Quantity** |
| | | | | Rig Fuel | m3 | | 607.32 |
| | | | | Potable Water | Mt | | 335 |
| | | | | Drill Water | m3 | | 618 |
| | | | | CEMENT G | Mt | | 0 |
| | | | | Barite | Mt | | 105 |
| | | | | Bentonite | Mt | | 34.8 |
| | | | | SOBM | m3 | | 5 |
| | | | | Base Oil | m3 | | 118 |
| | | | | Brine | m3 | | 121 |

## Helicopter Movement

| Flight # | Company | Arr/Dep. Time | Pax In/Out | Comment |
|---|---|---|---|---|
| BWJ | BRISTOW HELICOPTERS AUSTRALIA PTY LTD | 1412 / 1428 | 5 / 1 | Freight |