Australian Drilling Associates Pty Ltd ADA

**DRILLING MORNING REPORT # 10**

**10 Aug 2008** **From:** B Openshaw/R Rossouw
**To:** R Oliver

# Longtom-4 H

## Well Data

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Country | Australia | MDBRT | 4648.0m | Cur. Hole Size | 9.500in | AFE Cost | US$81,987,600 |
| Field | Longtom | TVDBRT | 2695.9m | Last Casing OD | 10.750in | AFE No. | LSRDV01/6 |
| Drill Co. | Seadrill | Progress | 66.0m | Shoe TVDBRT | 2337.6m | Daily Cost | US$677,900 |
| Rig | West Triton | Days from spud | 50.94 | Shoe MDBRT | 2590.8m | Cum Cost | US$51,647,300 |
| Wtr Dpth (MSL) | 56.000m | Days on well | 10.00 | FIT/LOT: | 1.68sg / | | |
| RT-ASL (MSL) | 41.100m | Planned TD MD | 5822.0m | Current Op @ 0600 | POOH at 3168m backreaming every stand. | | |
| RT-ML | 97.100m | Planned TD TVDRT | 2702.0m | Planned Op | Continue POOH and rig up to run 7" liner. | | |

## Summary of Period 0000 to 2400 Hrs

Drilled 9.5in hole as per DD requirements from 4582m to 4648m (2695.9m TVD) - final TD of hole. Circulated 5x bottoms up and backreamed all stands from 4648m to 3823m. A leaking washpipe was changed out during this trip period.

## HSE Summary

| Events | Num. Events | Days Since | Descr. | Remarks |
|---|---|---|---|---|
| Abandon Drill | | 0 Days | Held at 10.30 hours. | Rig alarms activated. Fire and Abandon drill conducted. |
| BOP Test | | 19 Days | Pressure test on nipple up | 14 Days - 5th August<br>21 Days - 12th August |
| Dropped Object | | 28 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 | When the link Tilt was retracted, the uneven piston movement caused the clamp bolt (on the Bail Arm) to break.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 | | 3 Days | Environmental spill | Overflow at mud shaker at start-up of drilling caused 3bbl mud to be lost overboard. |
| Medical Treatment Case | | 5 Days | Mud technician cut hand on glass retort. | While trying to push paper towels down a retort tube to dry it, the mud technician used too much force which broke the retort causing his hand to slip down onto the retort thus cutting his hand. He received 3 stitches from the medic and is back at wotk. |
| PTW issued | 8 | 0 Days | | Permit to work issued for the day. |
| Safety Meeting | | 1 Day | Weekly Safety Meetings with crews. | Weekly safety meeting held at 1300 Saturday and 0045 on Sunday . |
| STOP Card | 26 | 0 Days | | Stop cards submitted for the day. |
| Time Out For Safety | 2 | 8 Days | | |

## Operations For Period 0000 Hrs to 2400 Hrs on 10 Aug 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|---|---|---|---|---|---|---|---|
| P12 | P | D4 | 0000 | 0230 | 2.50 | 4648.0m | Continued drilling 9.5in hole as per DD requirements from 4582m to 4648m. (2695.9m TVD). Final depth of well as confirmed by Nexus. |
| P12 | P | F4 | 0230 | 1000 | 7.50 | 4648.0m | Circulated hole clean at 760gpm, 150rpm racking back one stand of DP every hour after circulating 1x bottoms up. Repeated above for 5 stands to 4472m. |
| P12 | P | D6 | 1000 | 1300 | 3.00 | 4648.0m | Continued POOH backreaming every stand at 150rpm and 760gpm from 4472m to 4354m. |
| P12 | TP (RE) | G11 | 1300 | 1700 | 4.00 | 4648.0m | Wash pipe leaking. Changed wash pipe - still leaking. Removed new wash pipe, redressed old wash pipe and install same. |
| P12 | P | D6 | 1700 | 2400 | 7.00 | 4648.0m | Continued POOH backreaming every stand at 150rpm and 760gpm from 4354m to 3823m. Tight spot at 3810m - worked same and continued. |

## Operations For Period 0000 Hrs to 0600 Hrs on 11 Aug 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|---|---|---|---|---|---|---|---|
| P12 | P | D6 | 0000 | 0300 | 3.00 | 4648.0m | Continued POOH backreaming every stand at 150rpm and 760gpm from 3823m to 3469m. |
| P12 | TP (RE) | F2 | 0300 | 0330 | 0.50 | 4648.0m | Leaking valve between pit 3 and pit 6 caused base oil to dilute mud system and reduce the MW. Circulate while weighting up system. |
| P12 | P | D6 | 0330 | 0600 | 2.50 | 4648.0m | Continued POOH backreaming every stand at 150rpm and 760gpm from 3469m to 3168m. |

## Operations For Period Hrs to Hrs on

## Phase Data to 2400hrs, 10 Aug 2008

| Phase | Phase Hrs | Start On | Finish On | Cum Hrs | Cum Days | Max Depth |
|---|---|---|---|---|---|---|
| Production Hole (2)(P12) | 240 | 01 Aug 2008 | 10 Aug 2008 | 240.00 | 10.000 | 4648.0m |

## General Comments

00:00 TO 24:00 Hrs ON 10 Aug 2008

| | |
|---|---|
| **Operational Comments** | Adjustments to rotary table elevation based on Fugro calculations;<br>RT above LAT = 41.062m.<br>RT above MSL/AHD 40.362m. |
| **Operational Comments** | West Triton Rig Equipment Concerns<br><br>1) Top drive rotating head has operating problems, to be able to rotate the IBOP must be operated first. This is impacting operational efficiency. New hydraulic pump on order?<br><br>2) Compensator for saver sub on TDS not operational resulting in excessive wear on saver sub threads.<br><br>3) CTU control panel has leaking valves, pressure regulator valve inoperable. Parts on order.<br><br>4) Link tilt clamps slipping on bails - need to rectify this issue.<br><br>5) Bail retaining plates on top drive bent, increasing time to change out bails by 1/2 hour. Require new retaining plates.<br><br>6) No spare UpperTop Drive IBOP or parts on board for Upper IBOP.<br><br>7 Number 4 main generator down. Exciter and generator sent ashore.<br><br>8) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).<br><br>9) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi.<br><br>10) Remote controller for Iron Roughneck not operational.<br><br>11) Automatic drill pipe elevators not working.<br><br>12) Auto IBOP on TDS is sticky and does not operate smoothly - linkages distorted?? Drillers are not currently closing the IBOP while making connections as it is very difficult to re-open.<br><br>13) Pan & tilt action not operating on derrick camera. |
| **Operational Comments** | Hours on jar ser. No 1416-1515: 147hrs |
| **Operational Comments** | Magnetic material collected in flowline during 24hrs: 1.54kg Accumulated total: 9.21kg |

## SBM Data

**Cost Today US$ 0**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Mud Type: | ACCOLADE | HTHP-Temp: | 120C° | Ex.Lime: | | Solids(%vol): | 21% | Viscosity | 80sec/qt |
| Oil Type: | ACCOLADE BASE | HTHP: | 500psi | Salinity: | 281320mg/l | H2O: | 20% | YP | 37lb/100ft² |
| Sample-From: | Flowline | HTHP-FL: | 3.8cc/30min | Elec.Stab.: | 400mV | Oil(%): | 57% | PV | 80cp |
| Time: | 21:40 | HTHP-cake: | 2/32nd" | | | Sand: | .25 | O/W Ratio: | 74/26 |
| Weight: | 12.10sg | CaCl mud: | 27.44 | | | LGS: | 11% | Gels 10s | 15 |
| Temp: | 33C° | CaCl WP: | | | | Oil On Cut: | 11% | Gels 10m | 25 |
| | | | | | | | | Fann 003 | 11 |
| | | | | | | | | Fann 006 | 14 |
| | | | | | | | | Fann 100 | 53 |
| | | | | | | | | Fann 200 | |
| | | | | | | | | Fann 300 | 93 |
| | | | | | | | | Fann 600 | 149 |

Comment: Run centrifuges in Barite recovery mode to reduce LGS.

## Bit # 11

| Wear | I | O1 | D | L | B | G | O2 | R |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

Bitwear Comments:

| Size ("): | 9.50in | IADC# | **Nozzles** | **Drilled over last 24 hrs** | **Calculated over Bit Run** |
|---|---|---|---|---|---|


Printed on 11 Aug 2008

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mfr: | REED | WOB(avg) | 18.00klb | No. | Size | Progress | 66.0m |
| Type: | PDC | RPM(avg) | 150 | 6 | 16/32nd" | On Bottom Hrs | 2.1h |
| Serial No.: | 216535 | F.Rate | 760gpm | | | IADC Drill Hrs | 3.0h |
| Bit Model | RSX616M-A4 | SPP | 4000psi | | | Total Revs | |
| Depth In | 3577.0m | HSI | | | | ROP(avg) | 31.43 m/hr |
| Depth Out | 4648.0m | TFA | 1.178 | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cum. Progress | 1071.0m |
| Cum. On Btm Hrs | 41.1h |
| Cum IADC Drill Hrs | 62.0h |
| Cum Total Revs | 0 |
| ROP(avg) | 26.06 m/hr |

Bit Comment

## BHA # 13

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Weight(Wet) | 30.00klb | Length | 215.0m | Torque(max) | 19000ft-lbs | D.C. (1) Ann Velocity | 434fpm |
| Wt Below Jar(Wet) | 14.00klb | String | 211.00klb | Torque(Off.Btm) | 10000ft-lbs | D.C. (2) Ann Velocity | 402fpm |
| | | Pick-Up | 280.00klb | Torque(On.Btm) | 16000ft-lbs | H.W.D.P. Ann Velocity | 310fpm |
| | | Slack-Off | 178.00klb | | | D.P. Ann Velocity | 310fpm |

BHA Run Description: 9.5in PDC bit, PD Xceed 675, Eco scope, Tele scope, NM HWDP, X/O, 6x 5.5" HWDP, X/O, Jar, X/O, 12x 5.5" HWDP.

BHA Run Comment

| Equipment | Length | OD | ID | Serial # | Comment |
|---|---|---|---|---|---|
| PDC Bit | 0.22m | 9.50in | | 216535 | |
| PD Xceed 675 | 7.66m | 6.75in | | 267 | |
| ECO Scope | 8.05m | 9.13in | | 805 | |
| Tele Scope | 8.52m | 6.88in | | FU22 | |
| NM HWDP | 9.19m | 6.75in | | SBD 3170 | |
| X/O | 0.91m | 7.00in | | 508A67 | |
| HWDP | 56.23m | 7.06in | | | |
| X/O | 0.42m | 7.00in | | 115612 | |
| Jar | 9.62m | 6.25in | | 1416-1515 | |
| X/O | 1.22m | 7.00in | | SSD7142 | |
| HWDP | 112.76m | 7.00in | | | |

## Bulk Stocks

| Name | Unit | In | Used | Adjust | Balance |
|---|---|---|---|---|---|
| Drill Water | MT | 0 | 0 | 0 | 183.0 |
| Rig Fuel | m3 | 0 | 23 | 0 | 209.0 |
| POTABLE WATER | MT | 12 | 29 | 0 | 340.0 |
| Cement class \'G\' | MT | 0 | 0 | 0 | 52.0 |
| Bentonite | MT | 0 | 0 | 0 | 45.0 |
| Barite | MT | 0 | 0 | 0 | 110.0 |
| SOBM | m3 | 0 | 0 | 0 | 2.0 |
| Brine | m3 | 0 | 0 | 0 | 192.0 |

## 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 | 66 | 4000 | 386 |
| 2 | National 14 P-220 | 6.50 | 1.44 | 97 | 66 | 4000 | 386 |
| 3 | 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 |
| 4558.0 | 20 | 400 | 117 | 30 | 550 | 176 | 40 | 700 | 234 |
| 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 |

## Personnel On Board

| Company | Pax |
|---|---|
| ADA | 7 |
| Seadrill | 12 |
| Seadrill Services. | 38 |
| Catering | 9 |
| Halliburton | 2 |
| Baker Hughes Inteq | 8 |
| Halliburton | 1 |
| Tamboritha | 3 |
| Q Tech | 1 |
| Tasman Oil Tools | 2 |
| Schlumberger | 5 |
| K&M | 1 |
| Reach | 1 |
| Baker Atlas | 4 |
| Weatherford | 4 |
| Total | 98 |

## Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/James Munford

| **Available** | **1968.6bbl** |
|---|---|
| Active | 368.0bbl |
| Mixing | |
| Hole | 1202.6bbl |
| Slug | |
| Reserve | 398.0bbl |
| Kill | |

| **Losses** | **104.7bbl** |
|---|---|
| Downhole | 28.7bbl |
| Surf+ Equip | 69.0bbl |
| Dumped | |
| De-Gasser | |
| De-Sander | |
| De-Silter | |
| Centrifuge | |
| Evaporation | 7.0bbl |

| Equipment | Description | Mesh Size |
|---|---|---|
| Shaker 1 | VSM-300 | 255 |
| Shaker 1 | VSM-300 | 255 |
| Shaker 2 | VSM-300 | 280 |
| Shaker 2 | VSM-300 | 280 |
| Shaker 3 | VSM-300 | 280 |
| Shaker 3 | VSM-300 | 280 |
| Shaker 4 | VSM-300 | 280 |
| Shaker 4 | VSM-300 | 280 |

Comments

## Marine

Weather on 10 Aug 2008

| Visibility | Wind Speed | Wind Dir. | Pressure | Air Temp. | Wave Height | Wave Dir. | Wave Period |
|---|---|---|---|---|---|---|---|
| 10.0nm | 12kn | 230.0deg | 1013.0mbar | 9C° | 1.3m | 160.0deg | 4s |

| Rig Dir. | Ris. Tension | VDL | Swell Height | Swell Dir. | Swell Period | Weather Comments |
|---|---|---|---|---|---|---|
| 24.1deg | 440.00klb | 2755.00klb | 1.7m | 160.0deg | 9s | Wave and swell heights are estimates. |

Comments

| Vessel Name | Arrived (Date/Time) | Departed (Date/Time) | Status |
|---|---|---|---|
| **Pacific Battler** | | 16.00 | Departed Geelong for rig |

**Bulks**

| Item | Unit | Used | Quantity |
|---|---|---|---|
| Rig Fuel | m3 | | 416 |
| Potable Water | Mt | | 450 |
| Drill Water | Mt | | 150 |
| CEMENT G | Mt | | 82 |
| Barite | Mt | | 84 |
| Bentonite | Mt | | 0 |
| Base Oil | m3 | | 0 |
| Brine | m3 | | 118 |

| Vessel Name | Arrived (Date/Time) | Departed (Date/Time) | Status |
|---|---|---|---|
| **Pacific Valkyrie** | | | At rig |

**Bulks**

| Item | Unit | Used | Quantity |
|---|---|---|---|
| Rig Fuel | m3 | | 375.1 |
| Potable Water | Mt | | 358 |
| Drill Water | m3 | | 618 |
| CEMENT G | Mt | | 0 |
| Barite | Mt | | 105 |
| Bentonite | Mt | | 34.8 |
| SOBM | m3 | | 74 |
| Base Oil | m3 | | 118 |
| Brine | m3 | | 119 |