Australian Drilling Associates Pty Ltd ADA

**DRILLING MORNING REPORT # 28**

**28 Aug 2008** **From:** S De Frietas/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$630,400 |
| Rig | West Triton | Days from spud | 68.94 | Shoe MDBRT | 4647.0m | Cum Cost | AUD$66,186,600 |
| Wtr Dpth (MSL) | 55.968m | Days on well | 28.00 | FIT/LOT: | 1.68sg / | | |
| RT-ASL (MSL) | 41.100m | Planned TD MD | 5822.000m | Current Op @ 0600 | Running 5 inch completion string. Depth at 06.00 hrs = 125m. | | |
| RT-ML | 97.068m | Planned TD TVDRT | 2702.000m | Planned Op | Continue to run 5in/7in completion string as per Completion program. | | |

## Summary of Period 0000 to 2400 Hrs

Completed POOH and laying out 5.50in drill pipe. Made up jetting and bore retrieving assembly, RIH jetted SST, engaged and pull bore protector. Jetted bore protector seating area and displaced riser to 11.00ppg filtered inhibited brine. POOH and laid out jetting/retrieving assembly. Rigged up and run 5in completion string as per completion program.

## HSE Summary

| Events | Num. Events | Days Since | Descr. | Remarks |
|---|---|---|---|---|
| Abandon Drill | | 4 Days | Held at 10.30 hours. | Rig alarms activated. Gas leak at well test area, all crews mustered at alternative muster stations. |
| BOP Test | | 14 Days | Pressure tested Bop's. | 14 Days - 28 Aug 21 days 4 Sept |
| Environmental Incident | | 5 Days | SBM spill to ocean when back-loading to Supply Boat. | Synthetic Based Mud was leaked to the ocean when a Transfer hose failed, shortly after commencing back-loading to the Valkyrie Supply Boat. Approximately 5 minutes after commencing pumping, the rigs watch-stander observed discoloration in the water. The transfer pump was immediately shut down. Total volume of spill 21bbls SBM. |
| Medical Treatment Case | | 1 Day | Third Party received small laceration to top of right thumb. | The IP was walking between the bottom of the V door and cable spooling unit for the down hole gauge on the cantilever deck. As he did this he dragged his hand along the edge of the spooling unit and received a small laceration to the top of his right thumb.<br>It should be noted that the IP was not wearing gloves at the time of the incident. |
| PTW issued | 17 | 0 Days | | Permit to work issued for the day. |
| Safety Meeting | | 5 Days | Weekly Safety Meetings. | Weekly safety meeting held on Sundays . |
| STOP Card | 43 | 0 Days | | Stop cards submitted for the day. |

## Operations For Period 0000 Hrs to 2400 Hrs on 28 Aug 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|---|---|---|---|---|---|---|---|
| P22 | P | G8 | 0000 | 0930 | 9.50 | 4648.0m | POOH laying out 5.50in drill pipe to 38.68m..<br><br>Note: Drill pipe "U" Tubing at 1073m: Pumped 30bbls unfiltered brine at 11.30ppg down string to stop "U" Tubing. |
| P22 | P | G8 | 0930 | 1000 | 0.50 | 4648.0m | Rigged down zip bails and 5.50in elevators and rigged up 5.50in elevators on drilling bails and racked back one stand 5.50in drill pipe in derrick. |
| P22 | P | G2 | 1000 | 1100 | 1.00 | 4648.0m | Laid out BHA, x/o, well patroller, 10.750in scraper, bit sub and bit.<br><br>Note: Small pieces of rubber were observed in well patroller from riser brush assembly. |
| P22 | P | G6 | 1100 | 1200 | 1.00 | 4648.0m | Made up BHA, well patroller, ball catcher, circulation valve and bore protector retrieving tool. |
| P22 | P | G8 | 1200 | 1300 | 1.00 | 4648.0m | RIH with BHA to 92.38m. |
| P22 | P | G16 | 1300 | 1400 | 1.00 | 4648.0m | Dropped ball, positioned CCV above SST and jetted same with 550gpm, 100psi with 29bbls filtered and inhibited brine at 11.00ppg. |
| P22 | P | G16 | 1400 | 1430 | 0.50 | 4648.0m | RIH and set 16k down on bore protecter retrieving tool to engage bore protector at 92.38m. Pulled out bore protector.<br>Note: No overpull observed when pulling bore protector.<br><br>Positioned CCV at well head and jetted well head area with passes at 550gpm, 100psi, with 71bbls filtered and inhibited brine at 11.00ppg. |



Printed on 29 Aug 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|---|---|---|---|---|---|---|---|
| P22 | P | G8 | 1430 | 1700 | 2.50 | 4648.0m | POOH and laid out well patroller, ball catcher, circulation valve and bore protecter retrieving tool and bore protector. Note: No wear obsevered on bore protector. Note: No debris or junk observed in well patroller. |
| P22 | P | G24 | 1700 | 1730 | 0.50 | 4648.0m | Cleared rig floor of excess equipment. |
| P22 | P | G1 | 1730 | 1800 | 0.50 | 4648.0m | Rigged down bails and 5.50in elevators and rigged up 15ft bails and 5in elevators. |
| P22 | P | G1 | 1800 | 2000 | 2.00 | 4648.0m | Rigged up completion string running equipment. |
| P22 | P | C4 | 2000 | 2330 | 3.50 | 4648.0m | Held JSA and run 5in completion string as per program. Picking up and making up mule shoe, sliding sleeve, 10.750in AHC packer, and assemblies 1A to 5A. |
| P22 | P | C4 | 2330 | 2400 | 0.50 | 4648.0m | Unable to achieve correct torque on blast joint #3 to #2. Laid out blast joint #3 and picked up and attempted to make up back up blast joint. |

## Operations For Period 0000 Hrs to 0600 Hrs on 29 Aug 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|---|---|---|---|---|---|---|---|
| P22 | P | C4 | 0000 | 0500 | 5.00 | 4648.0m | Continued to pick up and attempting to make up blast joints to the required torque. A total of 6 joints failed to meet torque requirements. This operation involved the laying out of two blast joints and picking up two replacement joints each time. Two to three attempts were made to make up blast joints to required torque before changing them out.(Lost approximately 3.5 hours during this operation.) |
| P22 | P | C4 | 0500 | 0600 | 1.00 | 4648.0m | Picked up and made up 5in tubing completion string and RIH. |

## Operations For Period Hrs to Hrs on

## Phase Data to 2400hrs, 28 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) | 291.5 | 11 Aug 2008 | 23 Aug 2008 | 552.00 | 23.000 | 4648.0m |
| Completion/Recompletion(P22) | 120 | 24 Aug 2008 | 28 Aug 2008 | 672.00 | 28.000 | 4648.0m |

## General Comments

00:00 TO 24:00 Hrs ON 28 Aug 2008

| | |
|---|---|
| **Operational Comments** | 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 plate<br><br>6) Number 4 main generator down. Exciter and generator sent ashore.<br><br>7) Emergency generator fuel tank requires modification to drain line (no communication with tank through drain line).<br><br>8) Pumping pressure read-out at Cyber chair display not accurate. At 2800psi pump pressure, cyber display reads 3600psi.<br><br>9) Remote controller for Iron Roughneck not operational.<br><br>10) Automatic drill pipe elevators not working.<br><br>11) 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>12) Auto slips not being used as profile of slips not compatible with master bushing.<br><br>13) Need to investigate possible misalignment of dolly beams and dolly rollers on Top Drive System. |
| **Operational Comments** | ROV operations:<br>Dived and functioned CTV valve when pulling bore protector.<br>Maintenance of equipment. |

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## General Comments

| | |
|---|---|
| **Operational Comments** | Expro Well Testing:<br>Rigging up equipment 80% of lines installed and equipment rigged up. |
| **Operational Comments** | Average hole losses while running completion 1 - 2bbls/hr. |

## WBM Data

**Cost Today AUD$ 10471**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mud Type: | Calcium Chloride Brine | API FL: | | Cl: | 292547mg/l | Solids(%vol): | |
| Sample-From: | Pit #8 | Filter-Cake: | | K+C*1000: | | H2O: | 100% |
| Time: | 20:00 | HTHP-FL: | | Hard/Ca: | | Oil(%): | |
| Weight: | 11.10sg | HTHP-cake: | | MBT: | | Sand: | |
| Temp: | 22C° | | | PM: | | pH: | 10 |
| | | | | PF: | | PHPA: | |

| | |
|---|---|
| Viscosity | |
| PV | |
| YP | |
| Gels 10s | |
| Gels 10m | |
| Fann 003 | |
| Fann 006 | |
| Fann 100 | |
| Fann 200 | |
| Fann 300 | |
| Fann 600 | |

Comment

Prepared further 166bbl of inhibited brine in pit #8. Filled slug pit with 56bbl of unfiltered 11.3ppg brine to be used as a slug to prevent u-tubing when POOH at company man's request. Transferred further 89bbl of brine from rig storage and blended with clean brine returns from pit #5. Re-filtered further 505bbl brine. Transferred 120bbl filtered brine from pit #4 to pit #8 and inhibited. Fill trip tank as required with inhibited brine from pit #8. Losses 1-2bbl/hr.

## Bulk Stocks

| Name | Unit | In | Used | Adjust | Balance |
|---|---|---|---|---|---|
| Drill Water | MT | 0 | 21 | 0 | 324.0 |
| Rig Fuel | m3 | 100 | 8 | 0 | 293.0 |
| POTABLE WATER | MT | 12 | 15 | 0 | 293.0 |
| Cement class \'G\' | MT | 0 | 0 | 0 | 52.0 |
| Bentonite | MT | 0 | 0 | 0 | 45.0 |
| Barite | MT | 0 | 0 | 0 | 65.0 |
| SOBM | m3 | 0 | 0 | 0 | 2.0 |
| Brine | m3 | 0 | 25 | 0 | 10.0 |
| BLENDED CEMENT | MT | 0 | 0 | 0 | 43.0 |

## 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 7in liner at 4520m<br><br>Second cement job "HBT" grade cement slurry at 15.0 ppg through perforations at 2675m - 2673.5m.Theoretical top of cement in 7in liner/10.75in casing at 2569m<br>Theoretical bottom of cement in 7in liner/9.5in hole at 2675m |

## Personnel On Board

| Company | Pax |
|---|---|
| ADA | 10 |
| Seadrill | 12 |
| Seadrill Services. | 34 |
| Catering | 9 |
| Halliburton | 2 |
| Baker Hughes Inteq | 2 |
| Halliburton | 3 |
| Tamboritha | 3 |
| Tasman Oil Tools | 2 |
| Reach | 1 |
| Expro Group | 12 |
| Well Dynamics | 4 |
| BHI | 2 |
| Schlumberger (Testing) | 2 |
| Rigcool | 2 |
| Weatherford | 4 |

## Personnel On Board

| | |
|---|---|
| Cameron | 3 |
| Scottech | 2 |
| Total | 109 |

## Mud Volumes, Mud Losses and Shale Shaker Data

Engineer : Brian Auckram/Tim Waldhuter

| Available | 2620.2bbl |
|---|---|
| Active | 206.0bbl |
| Mixing | |
| Hole | 1117.2bbl |
| Slug | |
| Reserve | 1297.0bbl |
| Kill | |

| Losses | 124.0bbl |
|---|---|
| Downhole | 48.0bbl |
| Surf+ Equip | 25.0bbl |
| Dumped | 51.0bbl |
| De-Gasser | |
| De-Sander | |
| De-Silter | |
| Centrifuge | |

| Equipment | Description | Mesh Size |
|---|---|---|
| Shaker 1 | VSM-300 | 280 |
| Shaker 1 | VSM-300 | 280 |
| 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 28 Aug 2008

| Visibility | Wind Speed | Wind Dir. | Pressure | Air Temp. | Wave Height | Wave Dir. | Wave Period |
|---|---|---|---|---|---|---|---|
| 10.0nm | 10kn | 45.0deg | 1028.0mbar | 12C° | 1.0m | 270.0deg | 1s |

| Rig Dir. | Ris. Tension | VDL | Swell Height | Swell Dir. | Swell Period | Weather Comments |
|---|---|---|---|---|---|---|
| 24.1deg | 440.00klb | 2634.00klb | 1.0m | 270.0deg | 6s | Wave and swell heights are estimates. |

Comments

| Vessel Name | Arrived (Date/Time) | Departed (Date/Time) | Status |
|---|---|---|---|
| **Pacific Battler** | | | At Geelong. |

| Item | Unit | Used | Quantity |
|---|---|---|---|
| Rig Fuel | m3 | | 523.925 |
| Potable Water | Mt | | 360 |
| Drill Water | Mt | | 190 |
| CEMENT G | Mt | | 0 |
| Barite | Mt | | 42 |
| Bentonite | Mt | | 0 |
| SOBM | m3 | | 110 |
| Brine | m3 | | 96 |

SBM onboard.
SBM Dirty = 63m3
SBM Slops = 56m3

| Vessel Name | Arrived (Date/Time) | Departed (Date/Time) | Status |
|---|---|---|---|
| **Pacific Valkyrie** | | | On location. |

| Item | Unit | Used | Quantity |
|---|---|---|---|
| Rig Fuel | m3 | | 358.69 |
| Potable Water | Mt | | 250 |
| Drill Water | m3 | | 166 |
| CEMENT G | Mt | | 0 |
| Barite | Mt | | 70 |
| Bentonite | Mt | | 34.8 |
| SOBM | m3 | | 67 |
| Base Oil | m3 | | 0 |
| Brine | m3 | | 0 |

SBM Slops: 57m3.

## Helicopter Movement

| Flight # | Company | Arr/Dep. Time | Pax In/Out | Comment |
|---|---|---|---|---|
| BWJ | BRISTOW HELICOPTERS AUSTRALIA PTY LTD | 1003 / 1018 | 10 / 8 | |