

From : Peter Devine / Nathan Peri
OIM : Dennis Gore

Well Data

| | | | | | | | |
|-------------------|---------------|-------------------|--|-------------------|----------|------------|--------------|
| Country | Australia | Measured Depth | 1875.0m | Current Hole Size | 311mm | AFE Cost | \$19,265,000 |
| Field | | TVD | 1748.3m | Casing OD | 340mm | AFE No. | 5738085 |
| Drill Contractor | DOGC | Progress | 5.0m | Shoe MD | 642.2m | Daily Cost | \$773,477 |
| Rig | Ocean Patriot | Days from spud | 15.71 | Shoe TVD | 642.2m | Cum Cost | \$17,288,152 |
| Water Depth (LAT) | 65.4m | Days on well | 16.48 | F.I.T. / L.O.T. | / 2.12sg | Planned TD | 2503.0m |
| RT-SL(LAT) | 21.5m | Current Op @ 0600 | Continued taking Stethoscope sample tests. | | | | |
| RT-ML | 86.9m | Planned Op | Complete FEWD logging run. POH. Run MDT. | | | | |
| Rig Heading | 215.0deg | | | | | | |

Summary of Period 0000 to 2400 Hrs

POH wiper trip. Picked up 48 Jts of drill pipe while awaiting for FEWD tools and for personnel to rest.
Picked up FEWD BHA, TIH and reamed through from 1760m to 1870m.
Drilled a further 5m of rathole to allow logging tools past the bottom of the reservoir.
Downlinked tools, pulled to 1845m. Attempted to log from 1845m to 1835m, unable to pull consistently due to hole conditions. Washed and reamed from 1845m to 1835m until slick.

Formations

| Name | Top (MD) | Top (TVD) | Comment |
|---------------------|----------|-----------|--|
| K85 Unconformity | 1783.0m | 1673.6m | 38.6m low |
| Waarre A | 1792.0m | 1683.1m | 48.1m low |
| Eumeralla Formation | 1820.0m | 1705.2m | 43.2m low |
| Total Depth | 1875.0m | 1748.0m | Drilled an extra 5m of rathole on 30th Jul 08 to accommodate FEWD. |

Operations For Period 0000 Hrs to 2400 Hrs on 30 Jul 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|------|----------|------|------|------|------|---------|--|
| EP | TP (HC) | HBHA | 0000 | 0130 | 1.50 | 1870.0m | Continued racking back BHA. |
| EP | TP (HC) | CRF | 0130 | 0230 | 1.00 | 1870.0m | Cleared the rig floor. |
| EP | TP (HC) | WOE | 0230 | 0400 | 1.50 | 1870.0m | Calibrated & tested FEWD tools. Concurrent Ops: Picked up 24 x drill pipe joints. |
| EP | TU (PO) | PUP | 0400 | 0600 | 2.00 | 1870.0m | Waited on personnel due to work hours being maximised. Concurrent Ops: Continued to pick up drill pipe to reach total depth (total 48Jts). |
| EP | TU (PO) | PUP | 0600 | 0630 | 0.50 | 1870.0m | Racked back drill pipe. |
| EP | TP (WOE) | RS | 0630 | 0730 | 1.00 | 1870.0m | Initialised FEWD tools on surface. Concurrent Ops: Serviced TDS and blocks. Conducted dropped object inspection of derrick and travelling equipment. |
| EP | TP (HC) | HBHA | 0730 | 1230 | 5.00 | 1870.0m | Picked up 311mm (12-1/4") Bit, Bit Sub and FEWD BHA. Checked communications with tools, loaded radio active sources. |
| EP | TP (HC) | HBHA | 1230 | 1400 | 1.50 | 1870.0m | Picked up BHA to 100m, shallow pulse tested FEWD tools at 2400 L/min (650 gpm) , 6.9 MPa (1000psi). Good test. Continued picking up BHA to 213m. |
| EP | TP (HC) | TI | 1400 | 1800 | 4.00 | 1870.0m | Continued running FEWD BHA on drill pipe to 1713m. |
| EP | TP (HC) | RW | 1800 | 1830 | 0.50 | 1870.0m | Washed and reamed from 1713m to 1741m. |
| EP | TP (HC) | LDPC | 1830 | 2130 | 3.00 | 1870.0m | Washed and reamed while logging from 1741m to 1870m at 60-90 m/hr, 110 rpm, 3200 L/min (850gpm), 23.5 MPa (3400psi). Tight spot at 1790m TD's, stalled out, picked up and washed through clean. |
| EP | TP (HC) | DA | 2130 | 2230 | 1.00 | 1875.0m | Drilled ahead 311mm (12-1/4") hole from 1870m to 1875m (5m) for FEWD tools logging rat hole. |
| EP | TP (HC) | LDPC | 2230 | 2330 | 1.00 | 1875.0m | Downlinked tools on bottom 1875m (1748m TVD). Pulled back to 1845m, logged up from 1845m to 1835m at 40m/hr. Unable to log due to tight hole and inconsistent pulling speed. |
| EP | TP (HC) | LDPC | 2330 | 2400 | 0.50 | 1875.0m | Washed and reamed the stand across 1845m to 1835m until slick. Parameters: 140 rpm, 3028 L/min (800gpm), 22.8 MPa (3300psi) |

Operations For Period 0000 Hrs to 0600 Hrs on 31 Jul 2008

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|------|----------|------|------|------|------|---------|--|
| EP | TP (HC) | LDPC | 0000 | 0100 | 1.00 | 1875.0m | Logged from 1845m to 1835m to obtain correlation data. Logging speed 20m/hr with 3028 L/min (800gpm). Run down to 1845m, shutdown pumps and rotary and conduct Stick test for 15min |

| Phse | Cls (RC) | Op | From | To | Hrs | Depth | Activity Description |
|------|----------|------|------|------|------|---------|--|
| EP | TP (HC) | LDPC | 0100 | 0200 | 1.00 | 1875.0m | with BHA - OK. Ran back to bottom at 1875m, logged up with Sonic to 1828m. |
| EP | TP (HC) | LDPC | 0200 | 0230 | 0.50 | 1875.0m | Shutdown pumps and rotary, took Stethoscope 15minute probe test #1 at 1825.5m (probe depth). Failed test. |
| EP | TP (HC) | LDPC | 0230 | 0330 | 1.00 | 1875.0m | Washed and reamed stand while trouble shooting tools. |
| EP | TP (HC) | LDPC | 0330 | 0430 | 1.00 | 1875.0m | Downlinked tools. Set Stethoscope tools to recording in memory. Pulled back to 1825.5m (probe depth). Downlinked tools to open probe and took #1 test again. Waited 15 minutes, good test. Closed probe and pulled to next depth at 1819.5m (probe depth). |
| EP | TP (HC) | LDPC | 0430 | 0500 | 0.50 | 1875.0m | Downlinked tools, attempted to record the #2 test in real time. Good test. Downlinked to retract the probe. |
| EP | TP (HC) | LDPC | 0500 | 0600 | 1.00 | 1875.0m | Pulled to next depth #3 at 1817.0m (probe depth), set and tested with probe, failed real time test #3. Retracted probe and worked pipe to rotate toolface 90°. Set pipe on probe test #3 depth 1817.0m, attempted sample test again. |

General Comments

| Comments | Rig Requirements | Lessons Learnt |
|---|------------------|----------------|
| NOTE: Drilled a further 5m of rathole to 1875 mRT (1748 mTVD) to accomodate the FEWD tools across the reservoir. Schlumberger well testing is 80% rigged up. | | |

WBM Data

Cost Today \$ 7000

| | | | | | | | | | |
|--------------|--------|--------------|-----------------------|----------|------|---------|-------|------------|-----------|
| Mud Type: | KGLY | API FL: | 4cm ³ /30m | KCl: | 8% | Solids: | 10.75 | Viscosity: | 0sec/L |
| Sample-From: | FL | Filter-Cake: | 1mm | Hard/Ca: | 880 | H2O: | 89% | PV: | 0.022Pa/s |
| Time: | 22:20 | HTHP-FL: | | MBT: | 0.8 | Oil: | | YP: | 0.163MPa |
| Weight: | 1.32sg | HTHP-Cake: | | PM: | 0.1 | Sand: | 0.2 | Gels 10s: | 0.038 |
| Temp: | 43.0C° | | | PF: | 0.05 | pH: | 8.5 | Gels 10m: | 0.086 |
| | | | | | | PHPA: | Oppb | Fann 003: | 9 |
| | | | | | | | | Fann 006: | 12 |
| | | | | | | | | Fann 100: | 34 |
| | | | | | | | | Fann 200: | 45 |
| | | | | | | | | Fann 300: | 56 |
| | | | | | | | | Fann 600: | 78 |

| | |
|---------|--|
| Comment | No treat ment to the active system. Build 13.5ppg Slug. Charge off Barite from yesterday and today's usage. Run centrifuge to cut back MW and LGS% in surface pits and system while RIH and pumping to bottom with LWD. |
|---------|--|

Bit # 5RR2

| | | | | Wear | I | O1 | D | L | B | G | O2 NO | R |
|-------------|---------|----------|----------|----------------|----------|---------------------------------|---|-----------|--------------------------------|---|-----------|---|
| Size: | 311mm | IADC# | 117 | Nozzles | | Drilled over last 24 hrs | | | Calculated over Bit Run | | | |
| Mfr: | HUGHES | WOB(avg) | 3.63mt | No. | Size | Progress | | 5.0m | Cum. Progress | | 5.0m | |
| Type: | Rock | RPM(avg) | 90 | 1 | 14/32nd" | On Bottom Hrs | | 1.10h | Cum. On Btm Hrs | | 1.10h | |
| Serial No.: | 5119202 | F.Rate | 3218lpm | 3 | 20/32nd" | IADC Drill Hrs | | 2.00h | Cum IADC Drill Hrs | | 2.00h | |
| Bit Model | MXL-1X | SPP | 21374kPa | | | Total Revs | | 430 | Cum Total Revs | | 430 | |
| Depth In | 1870.0m | TFA | 1.071 | | | ROP(avg) | | 4.55 m/hr | ROP(avg) | | 4.55 m/hr | |
| Depth Out | 1875.0m | | | | | | | | | | | |

| | |
|---------------|--|
| Daily Comment | Drilled 5m of new hole to place the logging below the reservoir. |
|---------------|--|

BHA # 8

| | | | | | | | |
|-------------------|---------|-----------|----------|-----------------|-----------|-----------------------|----------|
| Weight(Wet) | 22.68mt | Length | 213.2m | Torque(max) | 27200.0Nm | D.C. (1) Ann Velocity | 73.78mpm |
| Wt Below Jar(Wet) | 9.07mt | String | 122.47mt | Torque(Off.Btm) | 10880.0Nm | D.C. (2) Ann Velocity | 0mpm |
| | | Pick-Up | 129.27mt | Torque(On.Btm) | 13600.0Nm | H.W.D.P. Ann Velocity | 61.81mpm |
| | | Slack-Off | 111.13mt | | | D.P. Ann Velocity | 50.77mpm |

| | |
|---------------------|------------------|
| BHA Run Description | LWD Logging BHA. |
|---------------------|------------------|

| Equipment | Length | OD | ID | Serial # | Comment |
|-------------------|---------|-------|-------|-----------|------------------------|
| Bit | 0.33m | 311mm | | 5119202 | 1 x 14, 3 x 20 nozzles |
| Bit Sub | 0.90m | 203mm | 76mm | GUD1231-2 | Float Installed |
| Saver Sub | 0.36m | 213mm | 83mm | 03137-3 | |
| Stethoscope 825 | 9.58m | 305mm | 83mm | AF82 | |
| Saver Sub | 0.46m | 210mm | 83mm | 41940 | |
| Saver Sub | 0.45m | 216mm | 108mm | MSSB-GC | |
| Telescope 825 | 7.56m | 216mm | 108mm | VA77 | |
| Saver Sub | 0.47m | 216mm | 108mm | ASQ8080 | |
| Saver Sub | 0.37m | 216mm | 108mm | | |
| ARC-8 | 5.50m | 232mm | 108mm | 2724 | |
| Sonic ILS | 0.87m | 305mm | 108mm | 242280730 | |
| Sonic | 6.88m | 234mm | 108mm | 34888 | |
| Saver Sub | 0.32m | 210mm | 108mm | MSSB-KC | |
| ADN w/Stab | 6.36m | 302mm | 108mm | 42730 | |
| Pony Drill Collar | 2.50m | 232mm | 108mm | 2986 | |
| Drill Collar | 9.44m | 203mm | 73mm | | |
| 8in Jar | 9.94m | 210mm | 76mm | 989SE2 | |
| Drill Collar | 9.45m | 207mm | 73mm | | |
| X/O | 1.09m | 203mm | 67mm | GUD1231-6 | |
| HWDP | 140.40m | 175mm | 76mm | | |

| Bulk Stocks | | | | | | Personnel On Board | |
|---------------|------|----|------|--------|---------|--------------------------------------|-----|
| Name | Unit | In | Used | Adjust | Balance | Company | Pax |
| Barite | MT | 0 | 16 | 0 | -12.0 | Santos | 4 |
| Gel | MT | 0 | 0 | 0 | 53.0 | Santos | 2 |
| Cement | MT | 0 | 0 | 0 | 140.0 | DOGC | 47 |
| Fuel | M3 | 0 | 14 | 0 | 559.6 | ESS | 8 |
| Potable Water | M3 | 29 | 26 | 0 | 354.0 | BHI | 3 |
| Drill Water | M3 | 0 | 30 | 0 | 878.0 | Dowell | 2 |
| | | | | | | Rheochem | 2 |
| | | | | | | TMT | 3 |
| | | | | | | Anadrill | 2 |
| | | | | | | Anadrill | 1 |
| | | | | | | Schlumberger Wireline | 9 |
| | | | | | | MI Swaco | 1 |
| | | | | | | Schlumberger Testing | 4 |
| | | | | | | Schlumberger Wireline | 1 |
| | | | | | | Schlumberger Drilling & Measurements | 2 |
| | | | | | | Santos | 2 |
| | | | | | | DOGC Service | 7 |
| Total | | | | | | | 100 |

| Casing | | | |
|--------|-----------------|----------------------|--|
| OD | L.O.T. / F.I.T. | Casing Shoe (MD/TVD) | Cementing |
| 762mm | / | 130.90/130.90 | As per cement data. |
| 340mm | 2.12 / | 642.20/642.20 | Class G lead slurry to surface. Class G tail TOC at ± 492m (150m). |

| HSE Summary | | | | |
|----------------------------|------------|--------------|------------|--|
| Events | Num Events | Date of Last | Days Since | Remarks |
| Abandon Drill | 1 | 27 Jul 2008 | 3 Days | Abandonment drill completed after the fire drill. Completed full muster at lifeboat stations 1 and 2 in 10 minutes. |
| Fire Drill | 1 | 27 Jul 2008 | 3 Days | Simulated a fire on the stbd crane at 10:22. Fire under control at 10:30 (full lifeboat muster also completed). |
| First Aid | 1 | 23 Jun 2008 | 37 Days | IP was opening PPE locker in the sack room to exchange a dirty dust mask with a new mask. IP opened locker door harder than he expected and locker door swung open and struck him on the safety glasses. Safety glasses cut left eye brow (2.5 cm) from the impact. Hard hat had been taken off to exchange dust masks. |
| First Aid | 1 | 27 Jul 2008 | 3 Days | An IP on the supply vessel complained of chest pains and dizziness. He was assisted off the boat to the rig and checked over by the medic. All clear given by medic with consultation with doctor. IP returned to the boat, boat headed for its scheduled trip to Portland. IP cleared to work after visit to Portland hospital. |
| JHA | 33 | 30 Jul 2008 | 0 Days | Drill crew - 13 Deck Crew - 15 Welder - 3 Elect -2 |
| Lost Time Incident | 1 | 30 May 2008 | 61 Days | Man had his left hand caught between an 8" drill collar and the casing tongs when he was trying to secure the tong. Preliminary checks on the rig deemed only stitches required and the hand was not broken. The person was medivac'd off the rig @ 23:00hrs. Man was released from Royal Hobart hospital with 12 stitches to the hand (no broken bones). |
| Medical Treatment Incident | 0 | 13 May 2008 | 78 Days | No MTI since start of campaign |
| Medical Treatment Incident | 1 | 24 Jul 2008 | 6 Days | IP sustained a deep cut to his left leg. This was caused by his foot slipping off a timber support and hitting his shin. The IP will be flown out on crew chopper. Note: IP received 7 stitches and has been given clearance to return to work. Resumed duties 25th Jul 08. |
| Pre-Tour Meeting | 4 | 30 Jul 2008 | 0 Days | Discussed upcoming operations and associated hazards prior to each shift starting. |
| PTW Issued | 13 | 30 Jul 2008 | 0 Days | 9 x hot work permits 4 x cold work permits |
| Rig Inspection | 1 | 02 Jul 2008 | 28 Days | Conducted hazard hunt checking for flammable liquids in containers secured properly and in correct place with signage. |
| Safety Audit | 1 | 29 Jul 2008 | 1 Day | Santos environment audit conducted. |
| Safety Audit | 1 | 30 Jul 2008 | 0 Days | EHSMS audit conducted onboard. |
| Safety Meeting | 3 | 27 Jul 2008 | 3 Days | Reviewed stop cards for the week and awarded Santos best stop card to Tim Stone. Discussed fire and abandonment drill and muster times. Reviewed open water Rescue techniques. |
| Santos Induction | 4 | 30 Jul 2008 | 0 Days | Completed Santos induction with new personnel to site. |
| Stop Observations | 90 | 30 Jul 2008 | 0 Days | 47 - Safe 36 - Corrective Actions |
| STOP Tour | 1 | 28 Jul 2008 | 2 Days | Conducted a STOP audit of the mud pump room. Person working on the mud pumps had all PPE on and permit in place. Discussed what fluid isolations he had in place. No procedure available to determine what valves should be closed while working on the pumps. Reviewed the area and all valves were closed. JSA will be updated and Dodi informed of the findings |
| STOP Tour | 0 | 30 Jul 2008 | 0 Days | Diamond supervisor audits. |
| Trip/Pit Drill | 1 | 24 Jul 2008 | 6 Days | Sounded the alarm on the drill floor for a kick drill. Crew reacted and had the FOSV in place within 40 seconds. |

| Shakers, Volumes and Losses Data | | | | Engineer : Carissa Thompson / Fius Siregar | | | |
|----------------------------------|---------------------|-------------|--------------------|--|-----------------|-----------------------|-------|
| Available | 344.6m ³ | Losses | 13.2m ³ | Equip. | Descr. | Mesh Size | Hours |
| Active | 91.4m ³ | Downhole | 0.0m ³ | Centrifuge 1 | MI SW FVS 518 | | 0 |
| Mixing | 0.0m ³ | Surf+ Equip | 10.7m ³ | Centrifuge 1 | MI SW FVS 518 | | 0 |
| Hole | 144.5m ³ | Dumped | | Centrifuge 2 | MI SW FVS 518 | | 4 |
| Slug | | De-Sander | | Centrifuge 2 | MI SW FVS 518 | | 4 |
| Reserve | 57.2m ³ | De-Silter | | Shaker 3 | Bem 650 - MI SW | 10/20/230/230/230/230 | 9 |
| Kill | | Centrifuge | 2.5m ³ | Shaker 3 | Bem 650 - MI SW | 10/20/230/230/230/230 | 11 |
| Brine | 51.5m ³ | | | Shaker 4 | Bem 650 - MI SW | 10/20/230/230/230/230 | 9 |
| | | | | Shaker 4 | Bem 650 - MI SW | 10/20/230/230/230/230 | 11 |
| | | | | Shaker 5 | Bem 650 - MI SW | 10/20/230/230/230/230 | 9 |
| | | | | Shaker 5 | Bem 650 - MI SW | 10/20/230/230/230/230 | 11 |
| | | | | Shaker 6 | Bem 650 - MI SW | 10/20/230/230/230/230 | 9 |
| | | | | Shaker 6 | Bem 650 - MI SW | 10/20/230/230/230/230 | 11 |

Comment #2 Centrifuge needs repair done (awaiting spare parts).

| Marine | | | | | | | | Rig Support | | |
|---------------------------------------|--------------|-----------|--------------|------------|--------------|------------------|-------------|-------------|---------------|--------------|
| Weather check on 30 Jul 2008 at 24:00 | | | | | | | | Anchors | Chain out (m) | Tension (mt) |
| Visibility | Wind Speed | Wind Dir. | Pressure | Air Temp. | Wave Height | Wave Dir. | Wave Period | 1 | 1382.9 | 103.87 |
| 11.1km | 37km/h | 330.0deg | 1012.00bar | 9.0C° | 0.5m | 330.0deg | 3sec | 2 | 1382.9 | 106.14 |
| Roll | Pitch | Heave | Swell Height | Swell Dir. | Swell Period | Weather Comments | | 3 | 1399.9 | 113.85 |
| 0.4deg | 0.3deg | 0.50m | 1.5m | 250.0deg | 12sec | | | 4 | 1376.8 | 103.87 |
| Rig Dir. | Ris. Tension | VDL | Comments | | | | | 5 | 1410.9 | 112.04 |
| 215.0deg | 123.83mt | 1005.62mt | | | | | | 6 | 1421.0 | 110.22 |
| | | | | | | | | 7 | 1410.9 | 120.20 |
| | | | | | | | | 8 | 1414.0 | 123.83 |

| Boats | Arrived (date/time) | Departed (date/time) | Status | Bulks | | |
|-------------|---------------------|----------------------|--|---------------|------|----------|
| Far Grip | | 22:00 30 Jul 08 | Transit to Portland Note: Mud volume is for the 8-1/2" section. | Item | Unit | Quantity |
| | | | | Fuel | m3 | 518 |
| | | | | Potable Water | m3 | 158 |
| | | | | Drill Water | m3 | 450 |
| | | | | Cement | mt | 43.5 |
| | | | | Barite | mt | 84 |
| | | | | Gel | mt | 59 |
| | | | | KCl Brine | m3 | 140 |
| | | | | NaCl Brine | m3 | 185 |
| Mud | m3 | 127 | | | | |
| Nor Captain | 22:00 30 Jul 08 | | On location. | Item | Unit | Quantity |
| | | | | Fuel | m3 | 518.3 |
| | | | | Potable Water | m3 | 359 |
| | | | | Drill Water | m3 | 193 |
| | | | | Cement | mt | 38 |
| | | | | Barite | mt | 84 |
| | | | | Gel | mt | 42 |
| | | | | Mud | m3 | 69 |
| | | | | KCl Brine | m3 | 0 |

| Helicopter Movement | | | | |
|---------------------|-------|---------------|---------|-----|
| Flight # | Time | Destination | Comment | Pax |
| GYJ | 11:25 | Ocean Patriot | | 12 |
| GYJ | 11:40 | Essendon | | 11 |