



# DAILY GEOLOGICAL REPORT

## Report No. 01

REPORT PERIOD: 00:00 – 24:00 hrs, 13/05/2008

WELLSITE GEOLOGISTS: Simon Ward

RIG:	West Triton	RT-ML (m):	77.5	DEPTH @ 24:00 HRS:	751 mMDRT 706.8 mTVDRT
RIG TYPE:	Jack-up	RT ELEV. (m, AMSL):	38.0	DEPTH LAST REPORT : (@ 24:00 HRS)	161 mMDRT 161 mTVDRT
SPUD DATE:	10 May 2008 @ 19:30hrs	LAST CSG/LINER: (mMDRT)	762 mm (30") @ 133	24HR. PROGRESS:	590 m
DAYS FROM SPUD:	3.19	MW (SG):	1.06	LAST SURVEY:	34.4° @ 722.5 m MDRT, 239.9° Azi 683.3 mTVDRT
BIT SIZE:	444mm / 17.5"	LAST LOT/FIT (SG):	N/A	EST. PORE PRESSURE:	

## Operations Summary

### 24HRS. DRILLING SUMMARY:

Drilled 444mm (17.5") hole to 170m. Ran gyro survey on wireline to check hole orientation (survey confirmed well is oriented away from WSH-3 wellbore). Continued to drill to KOP at 250m and then directionally drilled the tangent hole section to TD at 751m using seawater and gel sweeps (all returns overboard as riser not installed). Circulated hole clean with two high-vis sweeps and then displaced the well with viscosified KCl/polymer mud. POOH – hole good. Encountered 20 kips overpull with the stabiliser at the conductor shoe. Made up the TDS and pumped and rotated through the shoe. Continued to POOH to surface and laid out 444mm (17.5") BHA. Commenced preparations for casing run.

### CURRENT STATUS @

06:00HRS:

(14-05-2008)

Skidding rig to align casing with well centre.

### EXPECTED NEXT ACTIVITY:

Run 340mm (13-3/8") casing and cement it in place.

## Cuttings Descriptions

DEPTH (mMDRT)		ROP (m/HR.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm	Min.-Max. (Ave.)		Ave.	Max.
161	751		No cuttings collected during this 24 hour period – all returns overboard from CTU deck.		

## Gas Data

DEPTH (mMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C-Connection T-Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, \*P-Pumps off, SWG-Swab Gas



## DAILY GEOLOGICAL REPORT

### Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR% / COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
N/A								

### Calcimetry Data

SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)	SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)
N/A							

### Mud Data

@ 672 mMDRT

MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	Cl <sup>-</sup> (mg/l)
Seawater/gel sweeps	1.06	100	24/103	-

### Tracer Data

DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use

### MWD / LWD Tool Data

Tool Type	Telescope (D&I only)
Sub Type	MWD
RT Memory Sample Rate (sec)	N/A
Bit to Sensor Offset (m)	26.56
Flow Rate Range for Pulser Configuration	600 – 1200 GPM



### Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string**
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	977.85	860.0				
<i>Top Latrobe Group</i>						
- Gurnard Formation	1531.6	1345.0				
- Top N1	1585.5	1398.0				
- Top N2.3	1641.2	1453.0				
- Top N2.6	1668.5	1480.0				
- Top P1	1702.9	1514.0				
Total Depth	1790.0	1600.0				

\*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan Wardie-1 Rev 06**.

\*\*Seabed actually tagged at 76.8m with drill string due to a mound of cement being present from the adjacent WSH-3 well (Mudline encountered at 77.5mMDRT).

\*\*\*Surveyed final RT elevation is actually 37.68m (38m is carried in Report headers).



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### Comments

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Simon Ward on rig 13/5/08.

Schlumberger D&M crew already on board rig prior to WSG arrival.

All returns from the well during the 444mm (17.5") section were diverted overboard to the sea from the CTU deck and did not pass over the shale shakers. Consequently no cuttings samples were collected and there was no monitoring of mud gas.

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-----END OF REPORT-----



# DAILY GEOLOGICAL REPORT

## Report No. 02

REPORT PERIOD: 00:00 – 24:00 hrs, 14/05/2008

WELLSITE GEOLOGISTS: Simon Ward

RIG:	West Triton	RT-ML (m):	77.5	DEPTH @ 24:00 HRS:	751 mMDRT 706.8 mTVDRT
RIG TYPE:	Jack-up	RT ELEV. (m, AMSL):	38.0	DEPTH LAST REPORT : (@ 24:00 HRS)	751 mMDRT 706.8 mTVDRT
SPUD DATE:	10 May 2008 @ 19:30hrs	LAST CSG/LINER: (mMDRT)	762 mm (30") @ 133	24HR. PROGRESS:	0 m
DAYS FROM SPUD:	4.19	MW (SG):	1.06	LAST SURVEY:	34.4° @ 722.5m MDRT, 239.9° Azi 683.3 mTVDRT
BIT SIZE:	N/A	LAST LOT/FIT (SG):	N/A	EST. PORE PRESSURE:	

## Operations Summary

### 24HRS. DRILLING SUMMARY:

Rigged up and ran 340mm (13 3/8") casing to 113m MDRT – casing hanging up inside MLS. Skidded rig forward to improve casing alignment with wellbore. Ran in with casing to 166m, still hanging up and unable to progress deeper. POOH with casing, removed all centralisers and stop collars and made up new joint of casing to float joint. Checked floats – OK. Re-ran 340mm (13 3/8") casing without centralisation to 500m.

### CURRENT STATUS @

06:00HRS:  
(15-05-2008)

Making up 476mm (18 3/4") wellhead assembly to casing.

### EXPECTED NEXT ACTIVITY:

Land out casing. Cement casing. Nipple up BOP stack.

## Cuttings Descriptions

DEPTH ( MMDRT)		ROP ( M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.
No cuttings collected during this 24 hour period.					

## Gas Data

DEPTH (mMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, \*P-Pumps off, SWG-Swab Gas



## DAILY GEOLOGICAL REPORT

### Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR% / COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
N/A								

### Calcimetry Data

SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)	SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)
N/A							

### Mud Data

@ 751 mMDRT

MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	Cl <sup>-</sup> (mg/l)
Seawater PHG	1.06	100	24 / 103	-

### Tracer Data

DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use

### MWD / LWD Tool Data

Tool Type N/A – tools out of hole.  
Sub Type  
RT Memory Sample  
Rate (sec)  
Bit to Sensor Offset  
(m)  
Flow Rate Range for Pulser Configuration



### Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string**
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	977.85	860.0				
<i>Top Latrobe Group</i>						
- Gurnard Formation	1531.6	1345.0				
- Top N1	1585.5	1398.0				
- Top N2.3	1641.2	1453.0				
- Top N2.6	1668.5	1480.0				
- Top P1	1702.9	1514.0				
Total Depth	1790.0	1600.0				

\*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan Wardie-1 Rev 06**.

\*\*Seabed actually tagged at 76.8m with drill string due to a mound of cement being present from the adjacent WSH-3 well (Mudline encountered at 77.5mMDRT).

\*\*\*Surveyed final RT elevation is actually 37.68m (38m is carried in Report headers).



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### Comments

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BHI computer system rebooted at 18:38 hrs until 18:46 hrs, no time or depth data collected during this period.

BHI gas chromatograph was calibrated at 19:15 hrs with C1-C5 cocktail gas.

Schlumberger wireline tools for logging at TD are on board the *Pacific Valkyrie* which is now on location. The tools will be loaded onto the rig on 15 May.

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-----END OF REPORT-----





# DAILY GEOLOGICAL REPORT

## Report No. 03

REPORT PERIOD: 00:00 – 24:00 hrs, 15/05/2008

WELLSITE GEOLOGISTS: Simon Ward

RIG:	West Triton	RT-ML (m):	77.5	DEPTH @ 24:00 HRS:	751 mMDRT 706.8 mTVDRT
RIG TYPE:	Jack-up	RT ELEV. (m, AMSL):	38.0	DEPTH LAST REPORT : (@ 24:00 HRS)	751 mMDRT 706.8 mTVDRT
SPUD DATE:	10 May 2008 @ 19:30hrs	LAST CSG/LINER: (mMDRT)	340mm (13.375") @ 747.2	24HR. PROGRESS:	0 m
DAYS FROM SPUD:	5.19	MW (SG):	1.06	LAST SURVEY:	34.4° @ 722.5 m MDRT, 239.9° Azi 683.3 mTVDRT
BIT SIZE:	N/A	LAST LOT/FIT (SG):	N/A	EST. PORE PRESSURE:	

## Operations Summary

### 24HRS. DRILLING SUMMARY:

Ran 340mm (13 3/8") casing to 657mMDRT. Made up MLS hanger assembly. Continued to run casing to 722m. Picked up 476mm (18 3/4") wellhead assembly and attached to casing. Landed out casing in MLS hanger at 85.45m MDRT. Cemented casing in place. Bumped plug to 2000 psi – floats held. Attempted to release wellhead running tool - no go. Made up TDS and applied 4 kips weight to fully collapse running tool clutch. Backed out running tool using rig tongs. Laid out wellhead running tool and cementing equipment. Nipped up BOP stack.

### CURRENT STATUS @

06:00HRS: Pressure testing BOP.  
(16-05-2008)

EXPECTED NEXT ACTIVITY: Pick up 311mm (12 1/4") directional BHA. RIH. Drill out cement. Conduct FIT.

## Cuttings Descriptions

DEPTH ( mMDRT)		ROP ( m/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.

No cuttings collected during this 24 hour period.

## Gas Data

DEPTH (mMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C-Connection T-Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, \*P-Pumps off, SWG-Swab Gas



## DAILY GEOLOGICAL REPORT

### Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR% / COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
N/A								

### Calcimetry Data

SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)	SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)
N/A							

### Mud Data

@ 751 mMDRT

MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	Cl <sup>-</sup> (mg/l)
Seawater PHG	1.06	100	24 / 103	-

### Tracer Data

DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use

### MWD / LWD Tool Data

Tool Type N/A – no tools in hole  
Sub Type  
RT Memory Sample  
Rate (sec)  
Bit to Sensor Offset  
(m)  
Flow Rate Range for Pulser Configuration



## Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string**
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	977.85	860.0				
<i>Top Latrobe Group</i>						
- Gurnard Formation	1531.6	1345.0				
- Top N1	1585.5	1398.0				
- Top N2.3	1641.2	1453.0				
- Top N2.6	1668.5	1480.0				
- Top P1	1702.9	1514.0				
Total Depth	1790.0	1600.0				

\*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan Wardie-1 Rev 06**.

\*\*Seabed actually tagged at 76.8m with drill string due to a mound of cement being present from the adjacent WSH-3 well (Mudline encountered at 77.5mMDRT).

\*\*\*Surveyed final RT elevation is actually 37.68m (38m is carried in Report headers).



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### Comments

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Second WSG and Schlumberger WL crew due on board on 17 May 2008.

BHI Autocalcimeter has been calibrated.

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-----END OF REPORT-----



# DAILY GEOLOGICAL REPORT

## Report No. 04

REPORT PERIOD: 00:00 – 24:00 hrs, 16/05/2008

WELLSITE GEOLOGISTS: Simon Ward

RIG:	West Triton	RT-ML (m):	77.5	DEPTH @ 24:00 HRS:	751 mMDRT 706.8 mTVDRT
RIG TYPE:	Jack-up	RT ELEV. (m, AMSL):	38.0	DEPTH LAST REPORT : (@ 24:00 HRS)	751 mMDRT 706.8 mTVDRT
SPUD DATE:	10 May 2008 @ 19:30hrs	LAST CSG/LINER: (mMDRT)	340mm (13.375") @ 747.2	24HR. PROGRESS:	0 m
DAYS FROM SPUD:	6.19	MW (SG):	1.06	LAST SURVEY:	34.4° @ 722.5 m MDRT, 239.9° Azi 683.3 mTVDRT
BIT SIZE:	311mm (12¼")	LAST LOT/FIT (SG):	N/A	EST. PORE PRESSURE:	

## Operations Summary

### 24HRS. DRILLING SUMMARY:

Completed nipple up of Diverter and BOP stack. Pressure tested BOP's and associated valves and hoses. Pressure tested casing and wellhead connector to 2000 psi. Ran wear bushing. Made up 311mm (12¼") bit and directional BHA. Shallow tested LWD tools – OK. RIH to 703m MDRT. Made up TDS and washed down to 732m, reaming through cement stringer at 719m. Rectified problem with TDS. Tagged TOC at 732.5m. Drilled out cement, plugs, float collar and shoe track with seawater to 737m.

### CURRENT STATUS @ 06:00HRS: (17-05-2008)

Drilling 311mm (12¼") directional hole with rotary steerable assembly since 04:00hrs. Currently at 820m MDRT.

EXPECTED NEXT ACTIVITY: Drill 311mm (12¼") directional hole as per well plan.

## Cuttings Descriptions

DEPTH ( MMDRT)		ROP ( M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.
No new formation drilled.					

## Gas Data

DEPTH (mMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
N/A									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, \*P-Pumps off, SWG-Swab Gas



## Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR% / COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
N/A								

## Calcimetry Data

SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)	SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)
N/A							

## Mud Data

@ 751 mMDRT

MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	Cl <sup>-</sup> (mg/l)
Seawater PHG*	1.06	100	24 / 103	-

\*Note: Hole will be displaced to a KCl-Polymer mud system while drilling the casing shoe.

## Tracer Data

DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use

## MWD / LWD Tool Data

<b>Tool Type</b>	Powerdrive / GVR8		
<b>Sub Type</b>	Gamma	Resistivity	Survey
<b>RT Memory Sample Rate (sec)</b>	5	5	N/A
<b>Bit to Sensor Offset (m)</b>	10.51	10.77 Ring 10.98 Deep 11.15 Med 11.28 Shallow	17.68
<b>Flow Rate Range for Pulser Configuration</b>	600-1200 gpm		



## Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string**
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	977.85	860.0				
<i>Top Latrobe Group</i>						
- Gurnard Formation	1531.6	1345.0				
- Top N1	1585.5	1398.0				
- Top N2.3	1641.2	1453.0				
- Top N2.6	1668.5	1480.0				
- Top P1	1702.9	1514.0				
Total Depth	1790.0	1600.0				

\*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan Wardie-1 Rev 06**.

\*\*Seabed actually tagged at 76.8m with drill string due to a mound of cement being present from the adjacent WSH-3 well (Mudline encountered at 77.5mMDRT).

\*\*\*Surveyed final RT elevation is actually 37.68m (38m is carried in Report headers).



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### Comments

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Second WSG and Schlumberger WL crew due on board on 17 May 2008.

Schlumberger basket of wireline tools on rig 16 May 2008.

BHI Autocalcimeter recalibrated with 10% HCl as insufficient 20% HCl available on rig to complete well.  
BHI CO<sub>2</sub> sensor calibrated with 10% cal gas.

BHI checked MTO with thermometer, MTI and MTO sensor recalibrated (upper temperature point on MTO sensor set 30% too high). MTI presently measured in Pit 6 whereas Pit 1 is now being used as the active pit.  
All other BHI systems fully functional.

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-----END OF REPORT-----





## DAILY GEOLOGICAL REPORT

### Report No. 05

REPORT PERIOD: 00:00 – 24:00 hrs, 17/05/2008

WELLSITE GEOLOGISTS: Simon Ward / Bill Leask

<b>RIG:</b>	West Triton	<b>RT-ML (m):</b>	77.5	<b>DEPTH @ 24:00 HRS:</b>	1446 mMDRT 1306.6 mTVDRT
<b>RIG TYPE:</b>	Jack-up	<b>RT ELEV. (m, AMSL):</b>	38.0	<b>DEPTH LAST REPORT:</b> (@ 24:00 HRS)	751 mMDRT 706.8 mTVDRT
<b>SPUD DATE:</b>	10 May 2008 @ 19:30hrs	<b>LAST CSG/LINER:</b> (mMDRT)	340mm (13.375") @ 747.2	<b>24HR. PROGRESS:</b>	695m
<b>DAYS FROM SPUD:</b>	7.19	<b>MW (SG):</b>	1.12	<b>LAST SURVEY:</b>	23.4° @ 1421.7m MDRT, 245.9° Azi 1283.9 mTVDRT
<b>BIT SIZE:</b>	311mm (12¼")	<b>LAST LOT/FIT (SG):</b>	1.57 @ 754m MD, 705mTVDRT (no leak-off)	<b>EST. PORE PRESSURE:</b>	

### Operations Summary

#### 24HRS. DRILLING SUMMARY:

Drilled out shoe track and casing shoe to 747.2m and cleaned out rathole to 751m MDRT. Displaced hole to 8.9 ppg KCl/Polymer/Clayseal mud while drilling out the shoe. Drilled 3m of new hole to 754m. Circulated and conditioned the mud system. Performed FIT to 1.57 SG (13.1 ppg) EMW (no leak-off). Drilled ahead 311mm (12¼") directional hole with rotary steerable assembly and LWD/MWD string to 1397m MDRT. Troubleshoot and rectified problem with drilling control system. Continued drilling to 1446m MDRT.

#### CURRENT STATUS @ 06:00HRS: (18-05-2008)

Drilling 311mm (12¼") directional hole with rotary steerable assembly at 1610m MDRT.

#### EXPECTED NEXT ACTIVITY:

Drill 311mm (12¼") directional hole to TD.



## Cuttings Descriptions

DEPTH ( MMDRT)		ROP ( M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.
751	830	3.7–140.2 (59.5)	<p><b>CALCARENITE (60–80%):</b> Light olive grey to olive grey in part, minor white to pale yellow, moderately hard to hard, very fine to coarse, angular to sub-angular, translucent to opaque sparry calcite, minor to common silt, minor rounded fine sand in parts, minor black lithics, trace glauconite in parts, highly calcareous, well cemented, poor visible porosity.</p> <p><b>LOOSE SAND (Trace – 10%):</b> Fine to medium, moderately sorted, sub-rounded to rounded, translucent to transparent quartz, minor orange to yellow quartz, trace cryptocrystalline pyrite. Minor coarse to very coarse rounded clear to frosted quartz.</p> <p><b>SKELETAL FRAGMENTS (Trace – 5%):</b> Pale yellow to orange to grey, dominantly bivalve fragments, minor bryozoans, echinoid.</p> <p><b>CALCISILTITE (5–40%, increasing downhole):</b> Medium grey to olive grey to occasionally black, soft to hard, highly calcareous, minor to common clastic silt fraction grading in parts to fine sand.</p> <p><b>SANDSTONE (Trace):</b> Moderate olive brown, hard, very fine, well sorted sub-rounded quartz and minor lithics, calcite cemented, silty matrix.</p>	0.002	0.002
830	982	17.7–171.8 (83.6)	<p><b>CALCARENITE (30–50%):</b> as above, common clastic silt fraction, generally fine grained from 950m.</p> <p><b>CALCISILTITE (45–65%):</b> Medium grey to olive grey to occasionally black (dominantly olive grey from 930m), dominantly soft to firm, minor hard, highly calcareous, minor to common clastic silt fraction grading in parts to fine sand.</p> <p><b>CALCILUTITE (Trace to 10% from 870m):</b> White, hard, silty, amorphous.</p> <p><b>LOOSE SAND (Trace):</b> Dominantly fine to medium grained, moderately sorted, rounded quartz, trace coarse to very coarse frosted rounded quartz.</p> <p><b>SKELETAL FRAGMENTS (Trace):</b> Pale yellow to orange to grey, dominantly bivalve fragments, minor bryozoans, trace echinoid spine.</p>	0.002	0.003
982	1235	13.7–222.2 (109.7)	<p><b>Preliminary pick top LAKES ENTRANCE FORMATION @ 982m MDRT.</b></p> <p><b>CALCISILTITE (80–90%):</b> Pale to medium grey to olive grey, dominantly firm to hard, blocky, moderately to highly calcareous, minor to common clastic silt fraction grading in parts to fine sand. Possible dolomitic cement indicated by slower HCl reaction. Trace very fine dark mafic grains. Rare pyrite.</p> <p><b>CALCILUTITE (10%):</b> White to pale grey, hard, amorphous, slightly silty.</p> <p><b>CALCARENITE (10%):</b> Light olive grey to olive grey in part, minor white to pale yellow, moderately hard to hard, very fine to fine, angular to sub-angular, translucent to opaque sparry calcite, minor silt, minor black lithics, highly calcareous, well cemented, poor visible porosity. Trace bryozoans, foraminifera, echinoid and shell fragments.</p>	0.008	0.018



### Cuttings Descriptions (Cont.)

DEPTH (MMDRT)		ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.
1235	1440	15.8–380.0 (112.2)	<b>Calcilutite with minor Calcisiltite (Top corresponds to increased LWD gamma and lower, more consistent resistivity).</b>	0.033	0.081
<p><b>CALCILUTITE (60–95%):</b> Very light to medium olive grey; by 1310m graded to greenish grey, firm to moderately hard, sub-blocky to sub-fissile, increasingly argillaceous, trace pyrite, rare loose forams in multiple taxa, both benthic and planktic, and echinoid spines; with rare very fine glauconite; at 1250–1330m trace loose glauconite nodules, rarely mammillated, medium lower to very coarse lower sized. Below 1420m, grading to calcareous Claystone.</p> <p><b>CALCISILTITE (40% decreasing to 5%):</b> Olive grey, firm to moderately hard, blocky, argillaceous, with common sand-sized recrystallised shell material, rare pyrite, grading to Calcilutite.</p>					

### Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
751–982	BG	0.0019–0.0027 (0.0023)	2–7	0–3	0	0	0	0	0
982–1446	BG	0.0022–0.0813 (0.0198)	125	0–5	0–4	0–1	0–1	0	0

Type: P-Peak, C–Connection T–Trip, W–Wiper Trip, BG–Background Gas, FC–Flow Check, \*P–Pumps off, SWG–Swab Gas

### Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR%/ COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
N/A								

### Calcimetry Data

SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)	SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)
N/A**							

\*\*See note in "Comments" below.



## DAILY GEOLOGICAL REPORT

Mud Data			@ 1381 mMDRT	
MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	CI (mg/l)
KCl / Polymer	1.12	58	13 / 30	33,000

Tracer Data			
DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use

MWD / LWD Tool Data			
Tool Type	Powerdrive / GVR8		
Sub Type	Gamma	Resistivity	Survey
RT Memory Sample Rate (sec)	5	5	N/A
Bit to Sensor Offset (m)	10.51	10.98 D 11.15 M 11.28 S	17.68
Flow Rate Range for Pulser Configuration		600–1200 gpm	

Provisional Formation Tops						
Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string**
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	977.85	860.0	982	865.3	5.3 L	Change in resistivity character, slightly lower ROP, change to siltier cuttings
<i>Top Latrobe Group</i>						
- Gurnard Formation	1531.6	1345.0				
- Top N1	1585.5	1398.0				
- Top N2.3	1641.2	1453.0				
- Top N2.6	1668.5	1480.0				
- Top P1	1702.9	1514.0				
Total Depth	1790.0	1600.0				

\*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan Wardie-1 Rev 06**.

\*\*Seabed actually tagged at 76.8m with drill string due to a mound of cement being present from the adjacent WSH-3 well (Mudline encountered at 77.5mMDRT).

\*\*\*Surveyed final RT elevation is actually 37.68m (38m is carried in Report headers).



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### Comments

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Bill Leask, second WSG, arrived on board 17 May 2008.

Schlumberger WL arrived on board on 17 May 2008, surface check of equipment underway.

MPSR sample from West Seahorse-3 arrived on board for processing.  
Schlumberger thermometers arrived as DG on helicopter.

20m sample interval to 1320m, 10m sample interval 1320–1520m, 5m sample interval 1520m–TD.

BHI Autocalcimeter unserviceable at present, unit disassembled and solenoid valve for gas exit port cleaned however unit still not holding pressure.

CaCO<sub>3</sub> added to mud system from 1425m.

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-----END OF REPORT-----



# DAILY GEOLOGICAL REPORT

## Report No. 06

REPORT PERIOD: 00:00 – 24:00 hrs, 18/05/2008

WELLSITE GEOLOGISTS: Simon Ward / Bill Leask

RIG:	West Triton	RT-ML (m):	77.5	DEPTH @ 24:00 HRS:	1766 mMDRT 1618.2 mTVDRT
RIG TYPE:	Jack-up	RT ELEV. (m, AMSL):	38.0	DEPTH LAST REPORT : (@ 24:00 HRS)	1446 mMDRT 1306.6 mTVDRT
SPUD DATE:	10 May 2008 @ 19:30hrs	LAST CSG/LINER: (mMDRT)	340mm (13.375") @ 747.2	24HR. PROGRESS:	320m
DAYS FROM SPUD:	8.19	MW (SG):	1.12	LAST SURVEY:	7.36° @ 1745.7m MDRT, 234.2° Azi 1598.0m TVDRT
BIT SIZE:	311mm (12¼")	LAST LOT/FIT (SG):	1.57 @ 754mMD, 705m TVDRT (no leak-off)	EST. PORE PRESSURE:	

## Operations Summary

### 24HRS. DRILLING SUMMARY:

Directionally drilled 311mm (12¼") hole with rotary steerable assembly from 1466m to well TD at 1766m MDRT, control drilling at 30 m/hr for improved LWD acquisition from 1520m onwards. Circulated the hole clean for 3.5 hours, rotating and reciprocating the drill string (substantial amount of fine, sticky cuttings returned over the first two circulations). Commenced POOH but unable to open trip tank for flow check. Replaced faulty trip tank remote valve. POOH from 1766m to 1500m. Encountered 30 kips overpull at 1540m MDRT. Worked through tight spot from 1540m to 1530m MDRT before continuing to trip out.

### CURRENT STATUS @ 06:00HRS: (19-05-2008)

Pumping and back-reaming out of the hole to the casing shoe. Bit currently at 850m MDRT.

### EXPECTED NEXT ACTIVITY:

Run back in hole from the casing shoe for a wiper/conditioning trip. Circulate. POOH and rig up for wireline logging.

## Cuttings Descriptions

DEPTH ( mMDRT)		ROP ( m/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.
1440	1523	37.6–131.0 (103.7)	Calclutite (with minor accessory mineral glauconite appearing below 1450m).	0.05	0.066

**CALCILUTE (100%):** Greenish grey to olive grey, firm to moderately hard, sub-blocky to sub-fissile, variably argillaceous and grading to moderately calcareous Claystone, trace to rare (1%) very fine to medium glauconite pellets and nodules below 1450m, trace foraminifera, slightly silty in parts.



Cuttings Descriptions (Cont.)

DEPTH ( mMDRT)		ROP ( m/HR.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm	Min.-Max. (Ave.)		Ave.	Max.
1523	1565	18.9–50.6 (29.9)	<p><b>Latrobe Group (Gurnard Formation):</b> <b>Glaucinitic calcareous Claystone and Calcilutite.</b></p> <p><b>CALCAREOUS CLAYSTONE (50-95%):</b> Light greenish grey to olive grey, becoming brownish grey below 1550m, firm to moderately hard, sub-blocky to sub-fissile, moderately to highly calcareous, 1% very fine to medium glauconite pellets and nodules increasing to 30% fine to coarse nodules by 1550m, trace foraminifera, trace shell and bryozoan fragments. Slightly silty in parts. Trace broken crystalline calcite vein material in parts.</p> <p><b>CALCILUTITE (5–50%):</b> Greenish grey to olive grey, firm to moderately hard, sub-blocky to sub-fissile, argillaceous, grading to Claystone, rare (1%) very fine to medium glauconite pellets and nodules, trace foraminifera, slightly silty in parts.</p>	0.05	0.094
1565	1575	28.9–31.0 (29.9)	<p><b>Latrobe Group:</b> <b>Siltstone with minor Sand and Coal.</b></p> <p><b>SILTSTONE (55-75%):</b> Medium brown grey to olive grey to brown, firm to hard, blocky, slightly carbonaceous, non to slightly calcareous.</p> <p><b>CALCILUTITE (20%):</b> Light grey to greenish grey, firm to hard, grading to calcareous Claystone, silty.</p> <p><b>LOOSE SAND (5%):</b> Very fine to coarse grained, poorly sorted, sub-rounded to rounded, clear translucent quartz.</p> <p><b>COAL (0–20%):</b> Dark brown to black, glossy in parts along fractures, hard, brittle, silty in parts.</p>	0.10	0.23
1575	1600	22.5–34.5 (29.8)	<p><b>Interbedded Coal, Siltstone and minor Sandstone (including inferred thick coal seam at 1582.5–1587.5mMDRT).</b></p> <p><b>COAL (60%):</b> Dark brown to black, glossy in parts along fractures, hard, brittle, silty in parts.</p> <p><b>SILTSTONE (25–35%):</b> Medium brown grey to olive grey to brown, firm to hard, blocky, slightly carbonaceous to coaly in parts, non to slightly calcareous. <b>Moderate to poor oil show (see below).</b></p> <p><b>CALCILUTITE (10%):</b> Light grey to greenish grey, firm to hard, grading to calcareous Claystone, silty; inferred uphole contamination.</p> <p><b>LOOSE SAND (Trace – 5%):</b> Fine to very coarse grained, poorly sorted, sub-rounded to rounded, clear translucent quartz. Minor glauconite, trace pyrite clusters. Trace pyritised quartz. Minor lithic fragments. No shows.</p>	0.50	0.69



Cuttings Descriptions (Cont.)

DEPTH ( MMDRT)		ROP ( M/HR.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm	Min.-Max. (Ave.)		Ave.	Max.
1600	1634	11.7–34.7 (29.8)	<p><b>Interbedded Siltstone and Sandstone.</b> (Thick low-gamma beds at 1600–1606m and 1614–1619m have same LWD character as coal seams above and below, but coal is only 5–10% of cuttings).</p> <p><b>SILTSTONE (40% increasing downhole to 80%):</b> Medium brown grey to olive grey to dark brown, firm to hard, blocky, slightly carbonaceous to coaly in parts, non to slightly calcareous.</p> <p><b>LOOSE SAND (15–30%):</b> Pale grey to brownish grey, very fine upper to very coarse upper, dominantly medium grained, poorly sorted, sub-rounded to rounded, clear quartz, minor lithics, minor calcite grains, minor glauconite, common sub-angular clear quartz granules.</p> <p><b>COAL (0–10%):</b> Dark brown to black, glossy in parts along fractures, hard, brittle, silty in parts.</p> <p><b>CALCAREOUS CLAYSTONE (5–20%):</b> Light grey to greenish grey, firm to hard, moderately to highly calcareous, silty. (This lithology persists as 5–10% of samples to TD and probably represents uphole contamination.)</p>	0.20	0.40
1634	1657	6.5–33.6 (27.3)	<p><b>Interbedded Coal, Siltstone and Sandstone.</b></p> <p><b>COAL (10–75%):</b> Dark brown to black, glossy in parts along fractures, hard, brittle, silty in parts.</p> <p><b>SILTSTONE (15–40%):</b> Medium brown grey to olive grey to dark brown, firm to hard, blocky, slightly carbonaceous to coaly in parts, non to slightly calcareous; in parts grading to carbonaceous very fine Sandstone.</p> <p><b>LOOSE SAND (5–30%):</b> Pale grey to brownish grey, very fine upper to coarse upper, dominantly medium grained, poorly sorted, sub-rounded to rounded clear quartz, minor lithics, minor glauconite, common sub-angular to sub-rounded clear quartz granules.</p> <p><b>CALCAREOUS CLAYSTONE (5–20%):</b> as above.</p>	0.10	0.25
1657	1664	26.7–31.0 (29.7)	<p><b>Sandstone.</b></p> <p><b>LOOSE SAND (85%):</b> White to pale grey, fine lower to granular, bimodal, dominantly fine to medium and very coarse grained, very poorly sorted, sub-rounded to sub-angular clear to frosted quartz, trace muscovite, trace lithics, trace glauconite.</p> <p><b>SILTSTONE (5%):</b> as above.</p> <p><b>COAL (5%):</b> as above.</p> <p><b>CALCAREOUS CLAYSTONE (5%):</b> as above.</p>	0.03	0.04





Cuttings Descriptions (Cont.)

DEPTH ( MMDRT)		ROP ( M/HR.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm	Min.-Max. (Ave.)		Ave.	Max.
1664	1676	1.5–33.5 (27.8)	<p><b>Interbedded Siltstone, Coal and carbonaceous Claystone; thick coal seam inferred from LWD logs at 1670–1676.5m.</b></p> <p><b>SILTSTONE (5–45%):</b> Pale yellowish brown speckled dark brown to black with carbonaceous material; also dusky yellowish brown with abundant carbonaceous material and laminae, blocky to sub-fissile, non calcareous, locally with common muscovite.</p> <p><b>COAL (30–80%):</b> Dark brown to black, glossy in parts along fractures, hard, brittle, silty in parts.</p> <p><b>CARBONACEOUS CLAYSTONE (5–10%):</b> Dark yellowish brown to brownish grey, firm, elongate sub-fissile, commonly with dark polished faces.</p> <p><b>LOOSE SAND (5-10%):</b> as above.</p> <p><b>CALCAREOUS CLAYSTONE (5–20%):</b> as above.</p>	0.05	0.14
1676	1702	4.2–32.8 (28.9)	<p><b>Sandstone.</b></p> <p><b>LOOSE SAND (50–95%):</b> White to very pale yellow, very fine to granule, dominantly very coarse upper to coarse upper grained, very poorly sorted, angular fragments to sub-rounded, sub-spherical, transparent to translucent quartz.</p> <p><b>CALCAREOUS CLAYSTONE (5–40%):</b> as above.</p> <p><b>COAL (0–5%):</b> as above.</p> <p><b>SILTSTONE (0–5%):</b> as above.</p>	0.01	0.02
1702	1729	20.5–35.1 (29.5)	<p><b>Interbedded Siltstone and Sandstone; Coal seams inferred from LWD logs, but only up to 5% of cuttings in some samples.</b></p> <p><b>LOOSE SAND (35–75%):</b> Light grey, fine upper to granule, dominantly very coarse to granule grained (clear bimodal sorting in some samples), very poorly sorted, angular fragments to sub-angular, rarely rounded grains, sub-spherical, transparent to translucent quartz.</p> <p><b>SILTSTONE (15–60%):</b> Pale yellowish brown speckled with black coal and carbonaceous material, firm to moderately hard, sub-blocky to fissile, commonly microlaminated, with irregular coal fragments, rarely very fine sandy; rarely with scattered fine glauconite nodules; also loose mammilated grayish green glauconite ovoid nodules (medium to coarse sand-size).</p> <p><b>CALCAREOUS CLAYSTONE (5%):</b> as above.</p> <p><b>COAL (5%):</b> as above.</p>	0.005	0.007



### Cuttings Descriptions (Cont.)

DEPTH (MMDRT)		ROP (M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.
1729	1740	18.4–33.6 (28.9)	<b>Coarse – granular Sandstone, in upper part of a 20m thick bed.</b>  <b>LOOSE SAND (85–95%):</b> Light yellowish grey, coarse upper to granule grained, moderately to poorly sorted, common angular fragments, dominantly sub-rounded, rarely well rounded, sub-spherical, transparent to translucent quartz, trace pinkish quartz. Trace coarse sandstone aggregate, hard, trace light yellow clay, inferred silica cemented, but overgrowths not confirmed, non calcareous, poor visible porosity. No shows. <b>SILTSTONE (Trace–5%):</b> as above. <b>CALCAREOUS CLAYSTONE (5%):</b> as above.	0.004	0.005
1740	1766	29.5–67.1 (55.3)	<b>Medium–coarse Sandstone, in beds up to 20m thick; Siltstone bed indicated on logs at 1749.5–1753m not confirmed by cuttings.</b>  <b>LOOSE SAND (100%):</b> Very light grey, very fine to very coarse grained, dominantly medium to coarse, very poorly sorted, angular to sub-rounded, sub-spherical, transparent to translucent quartz. No shows.	0.004	0.004

### Gas Data

DEPTH (MMDRT)	TYPE	% Total Gas	C1	C2	C3	iC4	nC4	iC5	nC5
		Min – Max (Avg)	ppm	ppm	ppm	ppm	ppm	ppm	ppm
1446–1523	BG	0.032–0.066 (0.05)	387	1–3	0–2	0	0	0	0
1523–1575	BG	0.03–0.23 (0.07)	541	1–18	1–21	0–7	0–6	0–2	0–1
1575–1621	BG**	0.2–0.65 (0.5)	3026	46	17	7	6	7	4
1585.5	P	1.20	8893	94	55	12	11	5	3
1590	P	0.693	5331	74	28	13	11	16	10
1598	P	0.685	5654	72	18	7	5	6	4
1604	P	0.614	4927	73	13	3	2	3	2
1615	P	0.579	4342	93	12	3	2	4	3
1621–1678	BG	0.01–0.25 (0.10)	668	49	9	1	1	1	0
1644	P	0.253	1779	147	24	2	2	1	1
1673	P	0.132	962	120	21	1	1	0	0
1678–1766	BG	0.004–0.02 (0.006)	19	2	1	0	0	0	0

Type: P-Peak, C–Connection T–Trip, W–Wiper Trip, BG–Background Gas, FC–Flow Check, \*P–Pumps off, SWG–Swab Gas

\*\*Note: Background gas through interval 1575–1621m estimated from trend through closely spaced peaks. Gas breakdown is average values for the interval, including peaks.



## DAILY GEOLOGICAL REPORT

### Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR% / COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
1570–1585	-	1% pale greenish yellow pinpoint	In Siltstone	Bright green blue	Fast streaming to blooming	Moderately wide bright green blue fluorescing residual ring	1.20%	0.5
1585–1605	-	1% dull pinkish orange		Moderately bright blue white	Slow blooming	Thin very pale green blue fluor residual ring	0.69	0.5
1605–1610	-	10% moderately bright to dull, yellow to orange		Bluish white (also from SLTST with no direct fluor)	Very slow blooming	Thin pale blue fluor residual ring	0.61	0.5
1610–1645	-	Trace–2% dull orange-yellow; also bright light greenish yellow, or dull pinkish orange	Most if not all mineral fluor.	bluish white, mainly from siltstone with no direct fluor	Slow diffuse	Very thin pale blue fluor residual ring	0.25	0.1
1645–1766	-	Very minor trace dull yellowish orange		nil	nil	nil		

### Calcimetry Data

SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)	SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)
N/A***							

\*\*\*See note in "Comments" below.

### Mud Data

@ 1766 mMDRT

MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	CI (mg/l)
KCL / Polymer	1.12	54	15 / 30	38,000

### Tracer Data

DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use



## MWD / LWD Tool Data

<b>Tool Type</b>	Powerdrive / GVR8		
<b>Sub Type</b>	Gamma	Resistivity	Survey
<b>RT Memory Sample Rate (sec)</b>	5	5	N/A
<b>Bit to Sensor Offset (m)</b>	10.51	10.98 D 11.15 M 11.28 S	17.68
<b>Flow Rate Range for Pulser Configuration</b>	600–1200 gpm		

## Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string**
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	977.85	860.0	982	865.3	5.3 L	Change in resistivity character, slightly lower ROP, change to siltier cuttings
<i>Top Latrobe Group</i>						
- Gurnard Formation	1531.6	1345.0	1523	1341.4	3.6 H	Slight increase in gamma, change in cuttings
- Top N1	1585.5	1398.0				
- Top N2.3	1641.2	1453.0	1653	1468.6	15.6 L	Shale below coaly couplet indicated on gamma log
- Top N2.6	1668.5	1480.0	1677.5	1492.8	12.8 L	High gamma peak above thick sand bed
- Top P1	1702.9	1514.0				
Total Depth	1790.0	1600.0	1766	1580.2		

\*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan Wardie-1 Rev 06**.

\*\*Seabed actually tagged at 76.8m with drill string due to a mound of cement being present from the adjacent WSH-3 well (Mudline encountered at 77.5mMDRT).

\*\*\*Surveyed final RT elevation is actually 37.68m (38m is carried in Report headers).



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### Comments

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Control drilled at 30m/hr from 1520–1743m.

BHI Autocalcimeter remained unserviceable, so no calcimetry analyses undertaken.

10m sample interval 1440–1520m, 5m sample interval 1520–1766m (TD).

Schlumberger wireline tools have all been surface tested and are on the catwalk ready for rigging up.

MPSR sample from West Seahorse-3 processed by Petrotech at 16:00 hrs.

Circulation stopped 20:34 hrs.

Mud samples 2x 1 litre collected at TD by BHI.

Packaging of all samples for shipment off rig is underway.

30ml filtrate sample from Latrobe interval collected by Mud Engineers.

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-----END OF REPORT-----



# DAILY GEOLOGICAL REPORT

## Report No. 07

REPORT PERIOD: 00:00 – 24:00 hrs, 19/05/2008

WELLSITE GEOLOGISTS: Simon Ward / Bill Leask

RIG:	West Triton	RT-ML (m):	77.5	DEPTH @ 24:00 HRS:	1766 mMDRT 1618.2 mTVDRT
RIG TYPE:	Jack-up	RT ELEV. (m, AMSL):	38.0	DEPTH LAST REPORT : (@ 24:00 HRS)	1766 mMDRT 1618.2 mTVDRT
SPUD DATE:	10 May 2008 @ 19:30hrs	LAST CSG/LINER: (mMDRT)	340mm (13.375") @ 747.2	24HR. PROGRESS:	0m
DAYS FROM SPUD:	9.19	MW (SG):	1.12	LAST SURVEY:	7.36° @ 1745.7m MDRT, 234.2° Azi 1598.0m TVDRT
BIT SIZE:	311mm (12¼")	LAST LOT/FIT (SG):	1.57 @ 754mMD, 705m TVDRT (no leak-off)	EST. PORE PRESSURE:	

## Operations Summary

### 24HRS. DRILLING SUMMARY:

Continued to POOH working tight spots from 1283m to 1273m and 1253m to 1178m MDRT. Pumped out of hole from 1178m to 919m MDRT. Hole packed-off. Worked string and regained circulation. Continued to pump out of hole from 919m to the casing shoe. Circulated the hole clean at the shoe. RIH for a wiper trip. Made up the TDS at 1737m and washed to bottom, encountering 8m of fill from 1758m MDRT. Circulated the hole clean at TD. POOH to surface. Laid down the BHA.

### CURRENT STATUS @

06:00HRS:

(20-05-2008)

Wireline logging. Pulling out of hole with Suite #1, Run #1 (PEX-HRLA-BHC).

### EXPECTED NEXT ACTIVITY:

Continue wireline logging as per programme (next log MDT-GR).

## Cuttings Descriptions

DEPTH ( MMDRT)		ROP ( M/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.
No new lithology drilled.					

## Gas Data

DEPTH (mMDRT)	TYPE	% Total Gas Min – Max (Avg)	C1 ppm	C2 ppm	C3 ppm	iC4 ppm	nC4 ppm	iC5 ppm	nC5 ppm
1178 - 747	BG*	0.0020-0.0033 (0.0025)	-	-	-	-	-	-	-
1178	Max**	0.0046	46	-	-	-	-	-	-
1178	BG***	0.0028-0.0043 (0.0039)	-	-	-	-	-	-	-

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, \*P-Pumps off, SWG-Swab Gas



## DAILY GEOLOGICAL REPORT

\*Circulating back-ground gas level while pumping out of the hole to the casing shoe.

\*\*\*Circulating back-ground gas level at TD during wiper trip.

### Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR% / COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
N/A								

### Calcimetry Data

SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)	SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)
N/A							

### Mud Data

@ 1766 mMDRT

MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	CI (mg/l)
KCl- Polymer	1.12	56	13 / 27	38,000

### Tracer Data

DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use

### MWD / LWD Tool Data

<b>Tool Type</b>	Powerdrive / GVR8		
<b>Sub Type</b>	Gamma	Resistivity	Survey
<b>RT Memory Sample Rate (sec)</b>	5	5	N/A
<b>Bit to Sensor Offset (m)</b>	10.51	10.98 D 11.15 M 11.28 S	17.68
<b>Flow Rate Range for Pulser Configuration</b>	600–1200 gpm		



## Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string**
Gippsland Limestone	80.0	45.0				
Lakes Entrance Formation	977.85	860.0	982	865.3	5.3 L	Change in resistivity character, slightly lower ROP, change to siltier cuttings
<i>Top Latrobe Group</i>						
- Gurnard Formation	1531.6	1345.0	1523	1341.4	3.6 H	Slight increase in GR, change in cuttings
- Top N1	1585.5	1398.0				
- Top N2.3	1641.2	1453.0	1653	1468.6	15.6 L	Shale below coaly couplet indicated on GR log
- Top N2.6	1668.5	1480.0	1677.5	1492.8	12.8 L	High GR peak above thick sand bed
- Top P1	1702.9	1514.0				
Total Depth	1790.0	1600.0	1766	1580.2		

\*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan Wardie-1 Rev 06**.

\*\*Seabed actually tagged at 76.8m with drill string due to a mound of cement being present from the adjacent WSH-3 well (Mudline encountered at 77.5mMDRT).

\*\*\*Surveyed final RT elevation is actually 37.68m (38m is carried in Report headers).





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### Comments

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All samples for both Wardie-1 and West Seahorse-3 have been packed for shipment off the West Triton rig and a manifest has been completed. Samples are to be dried and split at the BHI shore base in Perth.

2 x BHI Mudloggers departed rig on 19 May, 2 x Data Engineers remain on rig.

Fine cavings consisting of Lakes Entrance Formation lithologies were seen on the shale shakes when the well was circulated clean after the wiper trip. No sign of pressure cavings.

\*\*Maximum gas recorded from the wiper trip was 0.005%.

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-----END OF REPORT-----



# DAILY GEOLOGICAL REPORT

## Report No. 08

REPORT PERIOD: 00:00 – 24:00 hrs, 20/05/2008

WELLSITE GEOLOGISTS: Simon Ward / Bill Leask

RIG:	West Triton	RT-ML (m):	77.5	DEPTH @ 24:00 HRS:	1766 mMDRT 1618.2 mTVDRT
RIG TYPE:	Jack-up	RT ELEV. (m, AMSL):	38.0	DEPTH LAST REPORT : (@ 24:00 HRS)	1766 mMDRT 1618.2 mTVDRT
SPUD DATE:	10 May 2008 @ 19:30hrs	LAST CSG/LINER: (mMDRT)	340mm (13.375") @ 747.2	24HR. PROGRESS:	0m
DAYS FROM SPUD:	10.19	MW (SG):	1.12	LAST SURVEY:	7.36° @ 1745.7m MDRT, 234.2° Azi 1598.0m TVDRT
BIT SIZE:	311mm (12¼")	LAST LOT/FIT (SG):	1.57 @ 754mMD, 705m TVDRT (no leak-off)	EST. PORE PRESSURE:	

## Operations Summary

### 24HRS. DRILLING SUMMARY:

Completed laying out BHA and directional and LWD tools (recovered LWD memory data offline). Rigged up Schlumberger. Ran Wireline logs as per program. Suite #1, Run #1: PEX-HRLA-BHC (logged from HUD at 1760m to 1300m); Run #2: MDT-GR (attempted 17 stations between 1574m and 1681.5m, obtained 9 valid pressures, 4 supercharged points, 3 tight, 1 seal failure and took 3 formation fluid samples). POOH and recovered MDT samples at surface. Rigged down Schlumberger Wireline. Made up and RIH with mule shoe on 5½" drill pipe.

### CURRENT STATUS @

06:00HRS: Circulating above plug #1A at 1613m MDRT.  
(21-05-2008)

EXPECTED NEXT ACTIVITY: Continue with P&A program

## Cuttings Descriptions

DEPTH ( mMDRT)		ROP ( m/HR.) Min.-Max. (Ave.)	DESCRIPTIONS (LITHOLOGY / SHOWS)	BG GAS (%)	
Top	Btm			Ave.	Max.

No drilling during the reporting period.

## Gas Data

DEPTH (mMDRT)	TYPE	% Total Gas	C1	C2	C3	iC4	nC4	iC5	nC5
		Min – Max (Avg)	ppm	ppm	ppm	ppm	ppm	ppm	ppm
N/A**									

Type: P-Peak, C–Connection T–Trip, W-Wiper Trip, BG-Background Gas, FC-Flow Check, \*P-Pumps off, SWG-Swab Gas

\*\*Note: No circulation during reporting period.



## DAILY GEOLOGICAL REPORT

### Oil Show

DEPTH (mMDRT)	OIL STAIN	FLUOR% / COLOUR	FLUOR TYPE	CUT FLUOR	CUT TYPE	RES RING	GAS PEAK	BG
N/A								

### Calcimetry Data

SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)	SAMPLE DEPTH (mMDRT)	CALCITE (%)	DOLOMITE (%)	TOTAL CARBONATE (%)
N/A							

### Mud Data

@ 1766 mMDRT

MUD TYPE	MW (SG)	VISCOSITY (SEC/QT)	PV / YP	Cl <sup>-</sup> (mg/l)
KCl- Polymer	1.12	58	13 / 27	39,000

### Tracer Data

DEPTH	TYPE	CONCENTRATION	ADDITIONS STARTED (DEPTH / DATE)
N/A			No tracer in use

### MWD / LWD Tool Data

Tool Type N/A – No tools in hole  
Sub Type  
RT Memory Sample  
Rate (sec)  
Bit to Sensor Offset  
(m)  
Flow Rate Range for Pulser Configuration



## Provisional Final Formation Tops\*\*\*\*

Formation (Seismic Horizon)	Prognosed* (mMDRT)	Prognosed (mSS)	Actual (mMDRT)	Actual (mSS)	Difference (High/Low) (m)	Based on
Mudline	77.0	39.0	77.5	39.5	0.5 L	Tagged with drill string**
Gippsland Limestone	80.0	45.0	-	-	-	
Lakes Entrance Formation	977.85	860.0	982.0	865.3	5.3 L	Change in character of LWD resistivity, lower ROP, siltier cuttings
<i>Top Latrobe Group</i>						
- Gurnard Formation	1531.6	1345.0	1568.5	1385.1	40.1 L	Wireline Logs
- Top N1	1585.5	1398.0	1598.5	1414.5	16.5 L	Wireline Logs
- Top N2.2	NP	-	1622.5	1438.2	-	Wireline Logs
- Top N2.3	1641.2	1453.0	1656.0	1471.3	18.3 L	Wireline Logs
- Top N2.6	1668.5	1480.0	1681.0	1496.0	16.0 L	Wireline Logs
- Top P1	1702.9	1514.0	1715.5	1530.1	16.1 L	Wireline Logs
Total Depth	1790.0	1600.0	1766.0	1580.2	-	Pipe tally

\*Prognosed depth (MDRT) assumes a RT elevation of 38m above MSL and is based on **Directional Plan Wardie-1 Rev 06**.

\*\*Seabed actually tagged at 76.8m with drill string due to a mound of cement being present from the adjacent WSH-3 well (Mudline encountered at 77.5mMDRT).

\*\*\*Surveyed final RT elevation is actually 37.68m (38m is carried in Report headers).

\*\*\*\*The "final" tops are based on Wireline Log depths and Final Demag MWD Survey results and may change.



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### Comments

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All Wireline Logging activities and MDT results are recorded in separate reports.

LWD memory data was successfully retrieved, processed and e-mailed to 3D Oil office.

MPSR sample bottles from the MDT were recovered and processed as follows:

The first of the two chambers taken at 1582.4m was partially drained on-site by Petrotech to obtain preliminary oil properties. The remainder of this cylinder plus the second cylinder from this depth were then transferred to Petrotech bottles for sending in to a lab for further analytical work. The single sample from 1593.7mMDRT was transferred by Petrotech and no field analytical work undertaken.

Since midnight, Petrotech completed sample transfers and the requested analyses, though there was insufficient gas from the partially drained 1582.4m sample to allow CO<sub>2</sub> and H<sub>2</sub>S readings to be taken.

During circulation of bottoms up from 1766m at about 0400hrs, the BHI gas trap had to be shut down due to the shaker header box overflowing. This situation arose because of a high pump rate with only 3 shakers available to process returns. Prior to the shut down of the gas trap the maximum gas while circulating was 0.27% and the circulating back-ground gas level was ca. 0.003%.

During this circulation, large chunks of coal were present on the shakers, the largest being about 100x90x12 mm with many pieces in the 50x40x30 mm size range. Samples have been taken of the coal chunks.

Wellsite Geologists due to leave rig @ 1500 hrs 21 May 2008.

Wireline Logging crew due to leave the rig on 21 May 2008

Petrotech crew due to leave the rig on 21 May 2008.

**This is the FINAL Daily Geological Report for Wardie-1.**

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-----END OF REPORT-----