

# HENRY 2

### DAILY GEOLOGICAL REPORT

#### **DGR 13**

Date: Report Period: Days From Spud: Current Hole Size:	7 <sup>th</sup> September 2008 06:00 EST 06:00 – 06:00 Hours EST 13 311mm (12 <sup>1</sup> ⁄ <sub>4</sub> ")	Licence / State: Rig: RT - SEAFLOOR: WATER DEPTH RT:	VIC/P44 OCEAN PATRIOT 87.8m 67.0m MSL 20.8m MSL	
Depth @ 06:00 Hrs EST:	1063m MDRT	PTD:	2047m MDRT	
24 Hr Progress: 06:00 – 06:00 EST	-1039.9m SS MSL 406m	Spud Date:	03:15 hrs 25 <sup>th</sup> August,08	
Current Operation:	Drilling 311mm (121/4") hole in the Dilwyn Formation at 36 m/hr.			
Nope Cost (Drill)\$	(C&S)\$ 37.4 million (P&A)\$		Cost To Date:	

Casing Data	Hole Size	Depth	Casing Size	Wt:	Туре	Shoe Depth	LOT
	914 mm	131.7m	762mm (30")	461 kg/m	Conductor	131.7m	n/a
	(36")			(310 lb/ft)			
	445mm	657m	340mm	101 kg/m	L80 BTC	652m	2.21sg (18.4ppg)
	(17.5")		(13.375mm)	(68 lb/ft)			
	311mm						
	(12.25")						

Mud Data	Туре:	Wt:	Visc:	WL:	PH:	KCI:	CI -:	PV/YP:	Rmf:
	KGlycol	9.9	75	4.0	8.5	10.5	66k	21/31	

Bit Data	No.	Make	-	Гуре	Size	Hours	Meters	Condition
Current	3	Hughes	Mill	MXL-1X	311mm (12¼")	4.1	275	Drilling
Previous								

S	Surveys	Туре	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
		MWD	998.2	14	148	996.9	20	149
		MWD	1026.5	17	147	1024.1	27	149

### **OPERATIONS SUMMARY**

#### Previous 24 hrs Operations Summary at 06:00 hrs EST

Complete pressure testing surface equipment. Run in hole with the 311mm ( $12^{1/4}$ ") directional drilling assembly. Tag cement at 620m. Drill cement, the casing shoe and 3m of new formation. Conduct a Leak-Off Test. Equivalent Mud Weight = 2.21sg (18.4ppg). Drill ahead 311mm ( $12^{1/4}$ ") hole from 660m to 1063m.

### **Anticipated Operations:**

Drill ahead 311mm (12<sup>1</sup>/<sub>4</sub>") directional hole to +/-1400m. Pull out of hole for a PDC bit.



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			FORM	ATION TOP	S	
FORMATION	ACTUA	AL TOP	High / Low	High / Low	PROGN	OSED TOP
	(mMDRT)	(mSS MSL)	Prognosis (m)	Henry 1	(MDmRT)	(mSS MSL)
SEA LEVEL	20.8	0.0			20.8	0.0
HEYTSBURY GP	87.8	-67.0	1.0 High	0.5 High	88.8	-68.0
MEPUNGA FM	720.0	-699.2	0.2 Low	56.1 High	720.0	-699.0
DILWYN FM/	848.0	-827.1	24.1 Low	24.4 High	824.0	-803.0
WANGERRIP GP				_		
PEMBER MUDSTONE					1086.7	-1054.0
PEBBLE POINT FM					1113.6	-1079.0
MASSACRE SHALE					1173.9	-1135.0
TIMBOON FM					1184.7	-1145.0
PAARATTE FM					1389.4	-1333.0
SKULL CREEK MDST					1637.1	-1524.0
K85 UNCONFORMITY					1885.8	-1658.0
WAARRE A					1885.8	-1658.0
EUMERALLA FM					1935.8	-1683.0
TOTAL DEPTH					1977.0	-1703.6

### HYDROCARBON SHOW SUMMARY

	FLUORESCENCE GA	INTERVAL

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

## **GEOLOGICAL SUMMARY**

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
657 – 720m 9 – 167 m/hr Av: 48 m/hr	<u>CALCAREOUS SILTSTONE</u> : medium to dark brown, brown grey, occasionally light brown, off white, commonly argillaceous, grading to CALCAREOUS CLAYSTONE, common fossil fragments, occasional forams and corals, rare pyrite nodules, dispersive to firm, moderately hard in part, minor soft, amorphous, blocky to sub-blocky.	trace 100/-
	MEPUNGA FORMATION 720m MDRT (-699.2m SS MSL)	
720 – 848m 6 – 286 m/hr Av: 62 m/hr	<u>SANDSTONE</u> : medium to dark orange, yellow orange, rare off white, medium to coarse, very coarse in part, moderately sorted, sub-round to round, weak siliceous cement, rare off white argillaceous matrix, common orange Fe staining, loose, minor friable, good to very good inferred porosity, no fluorescence.	trace 100/-
	DILWYN FORMATION 848m MDRT (-827.1m SS MSL)	
848 – 990m 13 – 284 m/hr Av: 76 m/hr	SANDSTONE WITH MINOR INTERBEDDED SILTSTONE <u>SANDSTONE</u> : clear, translucent, light grey in part, fine to very coarse, poorly sorted, sub angular to predominately sub rounded, trace weak siliceous cement, locally with trace pyritic cement, trace light grey argillaceous matrix, minor nodular pyrite, predominately loose clean quartz grains, fair to good inferred porosity, no fluorescence. <u>SILTSTONE</u> : medium brown to brownish grey, argillaceous, trace lithics, trace carbonaceous specks, trace forams, dispersive to firm, amorphous, sub blocky in part.	trace 100/-



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990 - 1050m 9 - 86 m/hr Av: 37 m/hrSILTSTONE WITH MINOR INTERBEDDED SANDSTONE. SANDSTONE: clear, translucent, light grey, fine to very coarse grained, poor sorting, sub angular to predominately sub rounded, trace weak siliceous cement, minor light brownish grey argillaceous matrix, trace glauconite, trace lithics, poor to fair inferred porosity, no fluorescence. SILTSTONE: medium brown, argillaceous, locally very fine arenaceous, minor carbonaceous fragments, trace very fine glauconite, soft to firm,trace		DAILY GEOLOGICAL REPORT	DGR 13
sub blocky.	9 – 86 m/hr	<u>SANDSTONE</u> : clear, translucent, light grey, fine to very coarse grained, poor sorting, sub angular to predominately sub rounded, trace weak siliceous cement, minor light brownish grey argillaceous matrix, trace glauconite, trace lithics, poor to fair inferred porosity, no fluorescence. <u>SILTSTONE</u> : medium brown, argillaceous, locally very fine arenaceous, minor carbonaceous fragments, trace very fine glauconite, soft to firm,	trace 100/-

#### **REMARKS:**

LWD Sensor Offsets from the Bit:

GR:	11.53m
Resistivity:	11.48m
D&I:	19.38m
HeFar:	36.24m
Density	35.19m
Caliper:	34.81m