# Santos

**Report Period:** 

## **HENRY 2DW1 ST1**

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**DGR 01** 

**OCEAN PATRIOT** 

VIC/P44

67.0m MSL

20.8m MSL

~2600m MDRT 03:00 hrs on 3<sup>rd</sup>

October,2008

87.8m

#### DAILY GEOLOGICAL REPORT

Licence / State:

RT - SEAFLOOR:

WATER DEPTH

Sidetrack from

Rig:

RT:

PTD:

Henry 2:

Date: 03 October 2008

06:00 - 06:00 Hours EST

Days From Spud: 0

Current Hole Size: 311mm (121/4")

Depth @ 06:00 Hrs EST: 900m MDRT

899.6m TVDRT

-878.8m SS MSL

**24 Hr Progress:** 53m

06:00 - 06:00 EST

Current Operation: Drilling 311mm (121/4") directional hole in the Dilwyn Formation at 20m/hr.

Nope Cost (Drill)\$ (C&S)\$ 37.4 million Cost To Date:

(P&A)\$

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

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCI:	CI -:	PV/YP:	Rmf:
22:00hrs	KGlycol	10.1	57	6.2	9.7	10.6	57.5K	17 / 31	-

Bit Data	No.	Make		Гуре	Size	Hours	Meters	Condition
Current	1	Reed	Mill	C11T	311mm (12¼")	13.4	53	In Hole
Previous								

Surveys	Туре	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
	MWD	821.6	3	135	821.5	1	196
	MWD	850.4	5	126	850.2	3	157

#### **OPERATIONS SUMMARY**

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

Work Bottom Hole Assembly through obstruction in casing swage. Pull out of hole. Change out 311mm (12¼") bit and LWD tools. Shallow test LWD tools. Run in hole, tagging top of cement at 802m. Dress cement from 802m to 815m. Time drill cement from 815m. Henry 2DW1 ST1 sidetracked from the Henry 2 well from 847m at 03:00 hours on 3<sup>rd</sup> October 2008. Continue to drill 311mm (12¼") directional hole sidetracking the well from 847m to 900m.

#### **Anticipated Operations:**

Drill ahead 311mm (121/4") directional hole.

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	FORMATION TOPS						
FORMATION	ACTUAL 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							
				Henry 2			
PEMBER MUDSTONE					1092.2	-1066.1	
PEBBLE POINT FM					1128.9	-1101.1	
MASSACRE SHALE					1199.5	-1168.3	
TIMBOON FM					1213.3	-1181.4	
PAARATTE FM					1416.1	-1361.5	
SKULL CREEK MDST					1669.1	-1543.2	
K85 UNCONFORMITY					2071.6	-1693.7	
WAARRE A					2071.6	-1693.7	
TOTAL DEPTH						-	

# HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

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

# GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition
847 – 900m 7 – 76 m/hr Av: 32 m/hr	Henry 2DW1 ST1 sidetracked from the Henry 2 well at 03:00 hours on 3 <sup>rd</sup> October 2008 from 847m  SANDSTONE WITH MINOR SILTSTONE INTERBEDS.  SANDSTONE: clear to translucent, off white to pale grey, coarse to dominantly very coarse, fine to medium in part, poorly sorted, generally sub-round, minor round, weak siliceous cement, no matrix, rare pyrite nodules, loose clean grains, fair to good inferred porosity, no fluorescence.  SILTSTONE: medium to dark brown, minor brown grey, argillaceous in part, occasional carbonaceous specks, firm to dispersive, sub-blocky, amorphous.	trace C1

### **REMARKS**:

LWD Sensor Offsets from the Bit:

GR: 11.53m Resistivity: 11.47m D & I: 19.51m