# Santos HENRY 2DW1 Page 1 of 2 DAILY GEOLOGICAL REPORT DGR 10

Date: 25 September 2008 Licence / State: VIC/P44

**Report Period:** 06:00 – 06:00 Hours EST **Rig:** OCEAN PATRIOT

Days From Spud: 10 RT - SEAFLOOR:

 Current Hole Size:
 311mm (12¼")
 WATER DEPTH 67.0m MSL 20.8m MSL

 RT:
 20.8m MSL 2626m MDRT

 PTD:
 2626m MDRT

1716.0m TVDRT Sidetrack from 05:00 hrs on 16<sup>th</sup> -1695.2m SS MSL Henry 2: September,2008

87.8m

**24 Hr Progress:** 0m

06:00 - 06:00 EST

Current Operation: Run 244mm (9 5/8") casing – joint 12 of 110.

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

(P&A)\$

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	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")		(13.375")	(68 lb/ft)			
	311mm	2047m	244mm -273mm	47 - 55.5	L-80 Vam		
	(12.25")		(9 5/8")-(10 3/4")	lb/ft			

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCI:	CI -:	PV/YP:	Rmf:
22:00pm	KGlycol	12.0	81	3.7	8.5	10.2	70500	36 / 37	-

Bit Data	No.	Make	-	Туре	Size	Hours	Meters	Condition
Last	3	Reed	Rock	HP21G	311mm (12¼")	0	0	Pump hrs: 28.9
Previous	2	Reed	PDC	RSX519M	311mm (12¼")	10.9	339	0-1-CT-S-X-I-BU-TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)

#### **OPERATIONS SUMMARY**

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

Backream from 1800.0 to 1400.0 mMD. Circulate until shakers clean. Trip in, could not pass 1420.0 mMD, reamed in to 1450.0 mMD. Wash each stand down to 2047.0 mMD, continued to weight up mud to 1.44 sg (12 ppg). Circulated hi-vis sweep at bottom. Pull out of the hole conventionally with minimal drag observed. Lay out BHA. Retrieve wear bushing and jet BOP and wellhead. Rig up to run casing, make up shoe track, and run 244mm (9 5/8") joint 12 of 110 joints.

#### **Anticipated Operations:**

Run 244mm (9 5/8") 110 joints & 273mm ( $10\frac{3}{4}$ ") 41 joints of casing. Cement casing as per programme.

Santos	HENRY 2DW1	Page 2 of 2
Santos	DAILY GEOLOGICAL REPORT	DGR 10

	FORMATION TOPS						
FORMATION	ACTUAL TOP		High / Low	High / Low	PROGNOSED 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	1092.5	-1066.1	12.1 Low	31.4 High	1086.7	-1054.0	
PEBBLE POINT FM	1132.5	-1101.1	22.1 Low	21.8 High	1113.6	-1079.0	
MASSACRE SHALE	1207.0	-1168.3	33.3 Low	18.6 High	1173.9	-1135.0	
TIMBOON FM	1222.0	-1181.4	36.4 Low	17.2 High	1184.7	-1145.0	
PAARATTE FM	1443.0	-1361.5	28.5 Low	37.0 High	1389.4	-1333.0	
				Henry 2			
SKULL CREEK MDST	1681.0	-1541.5	1.7 High	1.7 High	1686.0	-1543.2	
K85 UNCONFORMITY	2041.0	-1694.3	0.6 Low	0.6 Low	2014.3	-1693.7	
WAARRE A	2041.0	-1694.3	0.6 Low	0.6 Low	2014.3	-1693.7	
TOTAL DEPTH					2626.9	-1708.7	

### HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS

GAS	MD (m)	Peak	Background	Chromatograph

## GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition

#### **REMARKS:**