Santos HENRY 2DW1 ST1 DAILY GEOLOGICAL REPORT DGR 13

Date: 15 October 2008 Licence / State: VIC/P44

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

Days From Spud: 12 RT - SEAFLOOR: 87.8m

 Current Hole Size:
 216mm (8 ½")
 WATER DEPTH RT:
 67.0m MSL 20.8m MSL

 Depth @ 06:00 Hrs EST:
 2080m MDRT
 PTD:
 2627m MDRT

 1716.6m TVDRT
 Sidetrack from
 03:00 hrs on 3rd

-1695.8m SS MSL Henry 2: October,2008

24 Hr Progress: 30m

06:00 - 06:00 EST

Current Operation: Drilling ahead 216mm (8 ½") directional hole at 25m/hr.

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")		(13.375mm)	(68 lb/ft)			
	311mm	2050m	244mm (9 5/8") /	70 kg/m /	L80	2042.7m	n/a
	(12.25")		273mm (10 ¾")	82.8 kg/m			

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCI:	CI -:	PV/YP:	Rmf:
18:00hrs	WFW	9.9	60	3.0	7.0	-	85K	13 / 31	-

Bit Data	No.	Make	Туре		Size	Hours	Meters	Condition
Current	3	Smith	PDC	MDI616	216mm (8 ½")	0.8	30	In Hole
Previous								

Surveys	Туре	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
	MWD	2029.1	78	120	1707.3	683	122
	MWD	2060.9	81	120	1712.9	714	122

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Make up the 216mm (8½") Bottom Hole Assembly. Shallow test LWD tools. Run in hole and tag top of cement at 2021m. Circulate bottoms up. Inspect the top drive. Drill the shoe track and displace mud system to DIF mud (Drill In Fluid). Drill ahead 216mm (8½") directional hole from 2050m to 2080m.

Anticipated Operations:

Drill ahead 216mm (8½") directional hole to total depth of +/-2627m.



	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	1092.5	-1065.6	0.5 High	0.5 High	1092.2	-1066.1	
PEBBLE POINT FM	1131.0	-1102.4	1.3 Low	1.3 Low	1128.9	-1101.1	
MASSACRE SHALE	1201.0	-1168.7	0.4 Low	0.4 Low	1199.5	-1168.3	
TIMBOON FM	1214.5	-1181.6	0.2 Low	0.2 Low	1213.3	-1181.4	
PAARATTE FM	1413.0	-1359.2	2.3 High	2.3 High	1416.1	-1361.5	
SKULL CREEK MDST	1665.0	-1537.8	5.4 High	5.4 High	1669.1	-1543.2	
K85 UNCONFORMITY	2040.0	-1688.7	5.0 High	5.0 High	2071.6	-1693.7	
WAARRE A	2040.0	-1688.7	5.0 High	5.0 High	2071.6	-1693.7	
TOTAL DEPTH	_				2627.0	-1703.2	

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
2050 – 2080m 11 – 75 m/hr Av: 55 m/hr	MASSIVE SANDSTONE WITH RARE SILTSTONE. SANDSTONE: off white, clear to translucent, fine to minor medium, moderately well sorted, sub-angular to sub-round, moderately siliceous cement, common off white argillaceous matrix, common lithics and carbonaceous specks, rare silty laminations, loose, friable, poor visual porosity, poor to occasionally fair inferred porosity, no fluorescence. SILTSTONE: medium to occasionally dark brown, brown grey in part, minor argillaceous, occasional carbonaceous specks, firm to moderately hard, blocky to sub-blocky.	195 U / 130 U 96/3/1/Tr/Tr 2072m CO2: 49ppm 2067m

REMARKS:

LWD Sensor Offsets from the Bit: (216mm (81/2") hole section)

 Xceed-Ecoscope-MWD

 GR:
 9.71m

 Res:
 12.75m

 D&I:
 20.56m

 Por:
 13.16m

 Den:
 10.97m

 Caliper:
 11.33m

 PWD:
 9.87m