



# DRILLING MORNING REPORT # 38

## Surprise 1 Re-entry H

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Date:	26 Dec 2011	Day Wellsite Representative:	Ray C. Miller	Rig Manager:	Charles Naja.
Report Number:	38	Night Wellsite Representative:	Dalton Halgren	Drilling Company:	Hunt Energy
Latitude (South):	23.00 ° 42.00 ' 50.76 "	Longitude (East):	129.00 ° 59.00 ' 36.09 "	Wellsite Geologist:	Lindsay Cullen

### Well Details

Country:	Australia	Current Hole Size:	6.000 in	Casing OD:	7.000 in	AFE Number:	8053
Field:	Surprise	Measured Depth:	2,593.0 m	Casing MD:	2,426.00 m	Original AFE:	AUD 9,833,315
Rig:	Hunt Rig #3	True Vertical Depth:	2,552.2 m	Casing TVD:	m	Supp. AFE No:	
Ground Level:	545.0 m	24 Hr Progress:	6.00 m	TOL MD:	m	Orig. & Sup. AFE:	AUD 9,833,315
RT to GL:	3.66 m	Days On Well:	37.29	TOL TVD:	m	Daily Cost:	AUD 80,103
Planned TD (MD):	3,330.0 m	Days Since Spud:	0.00	Liner Shoe MD:	m	Cum. Cost:	AUD 6,804,823
Planned TD (TVD):	2,551.0 m	Last BOP Date:	24 Dec 2011	Liner Shoe TVD:	m	Last LTI Date:	10 Dec 2010
		FIT/LOT:	11.50 ppg / ppg			Days Since Last LTI:	382

Current Op @ 0600: Clearing mud plug from within the MWD tools.  
 Planned Op: Run in the hole and drill ahead towards total depth.

### Summary of Period 0000 to 2400 Hrs

Drilled to 2593m MD/2552.21m TVD. POOH to change BHA and Bit. Adjusted Motor to 1.5 deg. Made up and surface tested MWD & Motor & RIH to 2551m. Kelly up and found drill string plugged, attempts to circ. unsuccessful. Pulled out of the hole.

### Operations for Period 0000 Hrs to 2400 Hrs on 26 Dec 2011

PHSE	CLS (RC)	OP	From	To	Hrs	Depth	Activity Description
PH	P	DA	00:00	02:30	2.50	2,593.0 m	Drill ahead sliding f/ 2587m - 2593m. (2552m TVD) - Avg ROP 4-8m/hr - 20% oil skim coverage at possum belly.
PH	P	TO	02:30	10:30	8.00	2,593.0 m	Flow Check 15min - OK - POOH to change BHA - 50k Over pull - Kelly up - Pump 3Jts out - 4Jts L/D total - Kelly Down - Cont. POOH - no overpull. Flow checked at the BHA. Pulled to surface, broke off the Bit.
PH	P	HBHA	10:30	13:30	3.00	2,593.0 m	Adjusted the Motor to 1.5 degree and made up the new BHA and surface tested the MWD tools and Motor. Pulled back and made up the new Bit.
PH	P	TI	13:30	19:30	6.00	2,593.0 m	Ran in the hole to 2400 meters.
PH	P	SCL	19:30	21:30	2.00	2,593.0 m	Slipped & Cut Drill line.
PH	P	TI	21:30	22:00	0.50	2,593.0 m	RIH w/ remainder of stands in derrick to depth of 2551m.
PH	TP (MSC)	CMD	22:00	23:00	1.00	2,593.0 m	Kelly up - P/U 1 Jt DP - Attempted to circ. - pumped for 5min - pressured up - pipe plugged attempted to clear pipe - unsuccessful.
PH	TP (MSC)	TO	23:00	24:00	1.00	2,593.0 m	POOH to just outside of window.

### Operations for Period 0000 Hrs to 0600 Hrs on 27 Dec 2011

PHSE	CLS (RC)	OP	From	To	Hrs	Depth	Activity Description
PHx	TP (MSC)	CMD	00:00	01:00	1.00	2,593.0 m	All further attempts to clear the blockage failed - kelly down - prep to POOH.
PHx	TP (MSC)	TO	01:00	06:00	5.00	2,593.0 m	POOH to Check source of plugged DP - Mud plug in pipe just above the MWD tool - It appears when we pumped out of the hole and L/D our DP - There was a mud plug in the bottom of one of the jts of DP - When we P/U the jt of DP they did not see the mud plug and pumped it down the pipe to the top of the MWD where it plugged off the Drill String. Began breaking down and clearing the plug from within the MWD.

### Performance Summary

Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
22	91.7	2	8.3	0.00	0.0	0.00	0.0	109.5	91.3	10.5	8.7	0.00	0.0	0.00	0.0	120

### General Comments for Period 0000 Hrs to 2400 Hrs on 26 Dec 2011

Category	Comments
General Comment	Mud Products used: KCL=8 Sodium=2



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WBM Data						Cost Today AUD			
Mud Desc.:	Brine	Viscosity:	25 s/L	Solids:	%	Low Range Rheology			
Check Depth:	m	PV:	cP	H2O:	%				
Time:		YP:	lbf/100ft <sup>2</sup>	Oil:	%	RPM	Reading		
Weight:	8.50 ppg/ 1.02 sg	Gel 10s/10m:	lbf/100ft <sup>2</sup> /lbf/100ft <sup>2</sup>	Sand:	%				
Temperature:	°C	API FL:	cc/30min	Barite:	lbm/bbl				
Cl (in whole mud):	mg/L	Filter Cake:	/32nd"	KCl:	%				
Cl (in water phase):	mg/L	HTHP-FL:	cc/30min	Pm:					
Ca Hard:	mg/L	HTHP-Cake:	/32nd"	Pf/Mf:	/				
MBT:	lbm/bbl			pH:					
				PHPA:	ppb				
<b>Comment:</b>									

Pumps										
Pump Data - Last 24 Hrs									Slow Pump Data	
No.	Type	Liner (in)	SPM	Eff. (%)	Flow (galUS/min)	SPP (psi)	Depth (m)	MW (ppg)	SPM	SPP ()
1	TSM 500 Duplex									
2	TFI 500 Triplex	5.50	93	96.00	204	1,407		8.50		
3	F800									

Bit #3		Wear	I	O1	D	L	B	G	O2	R						
Size:	152.4 mm (6")	IADC#:	637Y		<table border="1"> <thead> <tr> <th colspan="2">Nozzles</th> </tr> <tr> <th colspan="2">No. x Size</th> </tr> <tr> <td colspan="2">3 x 16/32nd"</td> </tr> </thead> </table>						Nozzles		No. x Size		3 x 16/32nd"	
Nozzles																
No. x Size																
3 x 16/32nd"																
Manufacturer:	SMITH	TFA:	0.589 in <sup>2</sup>													
Type:		Date In:	#38 (26 Dec 2011)													
Serial No:	PS5080	Date Out:														
Bit Model:	XR40Y	Depth In:	2,593.1 m		Depth Out:	m										

**Bit run comment:**

**Bit wear comment:** I was unable to bring Bit #2 forward to today's report for grading. Therefore I have graded Bit #2 thusly: 2-2-NO-A-3-I-NO-BHA.

Bit Performance			
Duration:	1.5 h	Progress:	6.00 m
Total Duration:	1.5 h	Total Progress:	6.00 m
ROP:	4.00 m/h	ROP (Avg):	4.00 m/h

Directional Data			
Slide Time:	1.5 h	Rotate Time:	0.0 h
Slide (%):	%	Rotate (%):	%
Total Slide Time:	1.5 h	Total Rotate Time:	0.0 h
Total KRevs:	9 revs	HSI:	hp/in <sup>2</sup>
Circ. Time:		Circ. Time:	h
Circ. (%):		Circ. (%):	%
Total Circ. Time:		Total Circ. Time:	0.0 h



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<b>BHA # 3</b>			
BHA Type:	Steerable Assembly.	Total Weight Wet:	klbs
Date In:	#38 (26 Dec 2011)	Weight Below Jar Wet:	klbs
Date Out:			
Depth In:	2,593.1 m		
Depth Out:	m		
Total Length:	1,104.43 m		

**BHA Description:** Steerable Assembly.  
**BHA Run Comment:**

<b>BHA Daily Summary</b>					
Pickup Weight:	klbs	Torque (max):	ft.lbf	D.C. (1) Ann Velocity:	113 m/min
Slack-Off Weight:	klbs	Torque (avg):	N.m	D.C. (2) Ann Velocity:	113 m/min
String Weight:	klbs	Torque (min):	N.m	H.W.D.P. Ann. Velocity:	64 m/min
Jars Hours Logged:	0.00 h			D.P. Ann. Velocity:	64 m/min

**Summary:**

<b>BHA Component</b>							
#	Equipment	Description	Length (m)	OD (in)	ID	Serial #	Hours
1	Bit	Insert	0.20	152.40		PS5080	
2	MWD	PZIG LXM	0.81	120.65	1.69	Z47A119K	
3	Motor		6.96	130.18		4257	
4	Float Sub		1.08	120.65	54.61	D47F035A	
5	MWD Tool		2.15	120.65	1.69	Z47M069K	
6	Crossover		0.35	120.65	54.61	D47X153T	
7	MWD Tool		8.78	120.65	69.85	D47C425D	
8	NMDC		9.31	120.65	69.85	D47C113C	
9	3 1/2 DP		906.23	88.90	70.20		
10	3 1/2" HWDP		186.56	120.65	52.40		

**Drilling Parameters**

<b>BHA Run #3</b>			
Top Depth:	2,587.0 m		
Bottom Depth:	2,593.0 m		
	Min	Avg	Max
WOB (klbs)	24.50	26.10	27.10
Surface RPM	0	0	0
Downhole RPM	106	106	106
Torque (ft.lbf)			
SPM	93	93	93
Flow (gpm)	204	204	204
SPP (psi)	1,403	1,407	1,410

**Survey**

MD. (m)	Incl. (°)	Corr. Az (°)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
2,531.40	49.51	140.01	2,512.03	111.79	6.68	-26.5	134.7	MWD
2,541.00	50.91	139.41	2,518.17	119.16	4.61	-32.1	139.4	MWD
2,550.60	51.97	141.70	2,524.15	126.65	6.50	-37.9	144.2	MWD
2,560.40	55.13	144.57	2,529.98	134.48	11.98	-44.2	148.9	MWD
2,570.20	62.26	145.01	2,535.07	142.76	21.86	-51.1	153.8	MWD
Comments								

**Formation Tops**

Name	Top (m)
Mereenie Fm	1,760.00
Stokes	2,275.00
Stairway FM	2,447.00
Horn Valley Siltstone	2,561.00



**Rig Stocks**

Name	Unit	Start Amount	Previous Balance	In	Used	Adjust	Balance
Diesel Fuel – Rig (Litre)	Litre		61,300.0	0	2,200	1,100	60,200.0

