



# DRILLING MORNING REPORT # 39

## Surprise 1 Re-entry H

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Date:	27 Dec 2011	Day Wellsite Representative:	Ray C. Miller	Rig Manager:	Charles Naja.
Report Number:	39	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:	2,615.0 m	Casing MD:	2,426.00 m	Original AFE:	AUD 9,833,315
Rig:	Hunt Rig #3	True Vertical Depth:	2,543.4 m	Casing TVD:	m	Supp. AFE No:	
Ground Level:	545.0 m	24 Hr Progress:	21.40 m	TOL MD:	m	Orig. & Sup. AFE:	AUD 9,833,315
RT to GL:	3.66 m	Days On Well:	38.29	TOL TVD:	m	Daily Cost:	AUD 81,503
Planned TD (MD):	3,330.0 m	Days Since Spud:	0.00	Liner Shoe MD:	m	Cum. Cost:	AUD 6,886,326
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:	383

Current Op @ 0600: Drilling ahead (sliding) from 2630 meters.

Planned Op: Drill ahead rotating/sliding as required to maintain direction and inclination.

### Summary of Period 0000 to 2400 Hrs

Pulled out of the hole to clear blockage from MWD tools. Cleared the blockage and ran back in the hole to 2593 meters. Circ. bottoms up, gas peak @ 999 units. Performed Reservoir Evaluation Test. Drilled ahead from 2593m to 2615m. (2543.4m TVD).

### HSE Summary

Events	Num. Events	Date Of Last	Days Lapsed	Description	Remarks
Pre-Tour Safety Meeting	2	27 Dec 2011 00:00	1.00	Pre tour safety meetings held with all on coming crew and third party personnel.	
Accident/incident/near miss	0	27 Dec 2011 00:00	1.00	No accidents, incidents or environmental issues raised in the past 24hrs.	
Non- Work related incident	1	27 Dec 2011 00:00	1.00	1 x ITEC Kintore personnel reported to medic with side and chest pain. He was driven to Kintore clinic for further medical evaluation. Possible appendicitis clinic examination found.	

### Operations for Period 0000 Hrs to 2400 Hrs on 27 Dec 2011

PHSE	CLS (RC)	OP	From	To	Hrs	Depth	Activity Description
PH	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.
PH	TP (MSC)	TO	01:00	06:30	5.50	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. Pulled back and broke off the Bit. Broke down the tools and cleared the plug from within the MWD.
PH	P	TI	06:30	08:30	2.00	2,593.0 m	Shallow tested the MWD tools. Made up the Bit and ran in the hole.
PH	P	RS	08:30	09:00	0.50	2,593.0 m	Serviced the Rig.
PH	P	TI	09:00	15:00	6.00	2,593.0 m	Cotinued running in the hole to 2551m - Possum belly surface area covered with oil skim that has migrated up the hole during TIH.
PH	P	CIR	15:00	17:00	2.00	2,593.0 m	Kelly up & wash to bottom @ 2593m - Circ. BU - Oil & Gas observed at Possum belly - replaced mudlogger equipment and started getting gas data at the end of our BU - high gas 999u
PH	P	FC	17:00	18:00	1.00	2,593.0 m	Shut down pumps for Reservoir Evaluation test - planned to shut down for 2 hrs but the hole was getting sticky so stopped test at 55min.
PH	P	CIR	18:00	19:00	1.00	2,593.0 m	Circ. BU - Background gas before BU 22u - High gas after Test 66u - 3 times background increase - oil skim at Possum belly from 20% - 30%
PH	P	DA	19:00	24:00	5.00	2,615.0 m	Drill Ahead f/ 2593m - 2615m - Sliding 4-8m/hr



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### Operations for Period 0000 Hrs to 0600 Hrs on 28 Dec 2011

PHSE	CLS (RC)	OP	From	To	Hrs	Depth	Activity Description
PHx	P	DA	00:00	06:00	6.00	2,630.0 m	Drill Ahead f/ 2615m - 2630m - Sliding 4-8m/hr - connection gases are averaging twice background

### Performance Summary

Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
17.5	72.9	6.5	27.1	0.00	0.0	0.00	0.0	127	88.2	17	11.8	0.00	0.0	0.00	0.0	144

### General Comments for Period 0000 Hrs to 2400 Hrs on 27 Dec 2011

Category	Comments
General Comment	Mud Products used: KCL=20 Sodium Sulphate=2 Birlasurf=2

### WBM Data

### Cost Today AUD

Mud Desc.:	Brine	Viscosity:	25 s/L	Solids:	%	Low Range Rheology
Check Depth:	2,593.0 m	PV:	cP	H2O:	%	
Time:	16:00	YP:	lbf/100ft <sup>2</sup>	Oil:	%	RPM
Weight:	8.50 ppg/1.02 sg	Gel 10s/10m:	lbf/100ft <sup>2</sup> /lbf/100ft <sup>2</sup>	Sand:	%	Reading
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	

Comment:

### 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	5.00	95	96.00	208	1,193		8.50		
3	F800									

Bit #3		Wear	I	O1	D	L	B	G	O2	R
Size:	152.4 mm (6")	IADC#:	637Y		<div>Nozzles</div> <div>No. x Size</div> <div>3 x 16/32nd"</div>					
Manufacturer:	SMITH	TFA:	0.589 in²							
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:	4.4 h	Progress:	21.40 m	ROP:	4.86 m/h
Total Duration:	5.9 h	Total Progress:	27.40 m	ROP (Avg):	4.64 m/h

### Directional Data

Slide Time:	5.0 h	Rotate Time:	0.0 h	Circ. Time:	h
Slide (%):	%	Rotate (%):	%	Circ. (%):	%
Total Slide Time:	6.5 h	Total Rotate Time:	0.0 h	Total Circ. Time:	0.0 h
Total KRevs:	28 revs	HSI:	hp/in <sup>2</sup>		



BHA # 3			
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		

<b>BHA Description:</b>	Steerable Assembly.
<b>BHA Run Comment:</b>	

BHA Daily Summary			
Pickup Weight:	123.00 klbs	Torque (max):	ft.lbf
Slack-Off Weight:	102.00 klbs	Torque (avg):	N.m
String Weight:	120.00 klbs	Torque (min):	N.m
Jars Hours Logged:	0.00 h	D.C. (1) Ann Velocity:	116 m/min
		D.C. (2) Ann Velocity:	116 m/min
		H.W.D.P. Ann. Velocity:	65 m/min
		D.P. Ann. Velocity:	65 m/min

Summary:			
BHA Component			

#	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

BHA Run #3			
Top Depth:	2,593.0 m		
Bottom Depth:	m		
	Min	Avg	Max
WOB (klbs)	18.60	31.10	41.20
Surface RPM	0	0	0
Downhole RPM	105	108	114
Torque (ft.lbf)	0	0	0
SPM	92	95	100
Flow (gpm)	202	208	219
SPP (psi)	92	95	100

### 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)
Stokes	2,275.00
Stairway FM	2,447.00
Horn Valley Siltstone	2,561.00
Pacoota Sst	2,613.00

**Rig Stocks**

Name	Unit	Start Amount	Previous Balance	In	Used	Adjust	Balance
Diesel Fuel – Rig (Litre)	Litre		60,200.0	0	1,040	0	59,160.0

## Surprise 1 Re-entry H

### Progress Vs. Planned

