

02 Aug 2006

From : Brian Marriott  
To : Bob Goosem/ Brian King/James Hinton

Well Data				Town Side QC Done	
Drill Co.:	Ensign	Midnight Depth (MD):	323.0m	Current Hole Size:	12.250in
Rig:	Ensign 32	Midnight Depth (TVD):	318.0m	Casing O.D.:	13.375in
Prognosed TD:	2350.0m	Progress:	3.0m	Shoe TVD:	312.0m
RT-GL:	5.90m	Days From Spud:	4.81	F.I.T. / L.O.T.	/ 20.00ppg
GL Elev.:	2.71m	Days On Well:	21.75	Rig Move Distance	1800+/- k's
Current Op's @ 0600 03 Aug 2006 :		Drill steer & survey thru. 458m (TVD 430.86)			
Planned Operations for 03 Aug 2006 :		Drill ahead 12-1/4" directional hole to 625m, circ., POOH to run Geo-Pilot			

**Summary of Period 0000 to 2400 Hrs**

Pick up a total of 42 std's D.P. & rack in Mast, make up Sperry Sun directional BHA, calibrate & test same, cont. RIH, tag cmt. @ 303m, drill cmt., shoe track & rat hole to 320m, with water, switch to new KCL/PHPA mud, drill new hole f/ 320m to 323m, circ. & condition mud, pull inside shoe, perform Leak Off Test, equiv. to 20.00ppg, drill ahead f/ 323m

**Operations For Period 0000 Hrs to 2400 Hrs on 02 Aug 2006**

Phse	Cls	Op	From	To	Hrs	Depth	Activity Description
SC	P	HBHA	0000	0700	7.00	320.0m	Cont. pick up singles drill pipe, make up & rack std's in Mast ( total in Mast = 52 stands)
SC	P	HBHA	0700	0730	0.50	320.0m	Sperry Sun calibrate Drawworks / blocks
SC	P	RS	0730	0900	1.50	320.0m	Rig Service, raise JSA due to Top Drive addition
SC	P	PT	0900	1000	1.00	320.0m	nipple up x-o's, tighten break on Grey stab valve to pressure test same, ok, break down x-o's
SC	P	HBHA	1000	1430	4.50	320.0m	Raise JSA, make up 12-1/4" Sperry directional BHA, test MWD tools, failed
SC	P	RO	1430	1530	1.00	320.0m	Repair MWD connection & re-test, ok
SC	P	HBHA	1530	1630	1.00	320.0m	Cont. RIH to HWDP
SC	P	PT	1630	1700	0.50	320.0m	Shallow pulse test MWD
SC	P	TI	1700	2000	3.00	320.0m	Cont. RIH f/ HWDP, tag cmt. @ 303m. pick up off bottom
SC	P	SM	2000	2030	0.50	320.0m	Simulate well control drill, shut in well, close annular, sound alarm, close pipe rams, all non essential personal off the rig floor, muster checker checked off personal. Returned all the drilling crew to the rig floor & discussed how the well is controlled. circ. with water, pump thru, HCR, choke manifold, & Poor Boy, observe returns @ Poor Boy, end of drill, return manifold to drilling mode, clear rig floor, open rams & Annular Note; Problem with stroke counter on Swaco choke, elect. to repair before drilling out shoe
SC	P	RR	2030	2100	0.50	320.0m	Suction line leaking on #4 mud pump, repair same
SC	P	DFS	2100	2300	2.00	320.0m	Drill cement f/ 303m to float collar @ 305m, shoe track & Rat hole to T.D. @ 320m
IH	P	DM	2300	2330	0.50	323.0m	Switch to mud, drill f/ 320m to 323m
IH	P	LOT	2330	2400	0.50	323.0m	LOT w/ 8.8ppg = 600psi, EMW = 20ppg

**Operations For Period 0000 Hrs to 0600 Hrs on 03 Aug 2006**

Phse	Cls	Op	From	To	Hrs	Depth	Activity Description
IH		DM	0000	0600	6.00	458.0m	Drill, steer & survey 12-1/4" hole f/ 323m to 458m ( TVD = 430.86)

**General Comments**

Comments	Rig Requirements
	Off load 9-5/8" csg, remainder due Thursday

WBM Data			Cost Today \$ 258			Cumulative Cost \$ 18369			
Mud Type:	KCI PHPA	Viscosity:	48sec/qt	API FL Loss:	8.5cc	CI	26000	Solids:	1.2
Depth:	323.0m	PV:	10cp	Filter Cake:	1/32nd"	K+:	5%	H2O:	98%
Time:	23:30	YP:	10lb/100ft <sup>2</sup>	HTHP FL:		Hard/Ca:	250	Oil:	
Weight:	8.80ppg	Gels 10s/10m:	3 / 5	HTHP Cake:		MBT:		Sand:	0
Temp:	52.0F°	Fann (3/6/100):	4 / 6 / 12			PM:		pH:	8.5
						PF:	0.35	PPHA:	0.70ppb
Comment: Drilled out cement with water. Displaced to new mud and drilled 3m of new hole. Started adding glycol once drilling steadily.									

Shakers, Volumes and Losses Data				Engineer: Manfred Olejniczak / J.V.Babu			
Equipment	Description	Mesh Size	Available	Losses	Comment		
Centrifuge	DE 1000		669.0bbl	0.0bbl			
Centrifuge	DE 1000		435.0bbl	0.0bbl			
Shaker 1	Derrick	Pyramid x 140	93.0bbl	0.0bbl			
Shaker 1	Derrick	Pyramid x 140	141.0bbl				
Shaker 2	Derrick	Pyramid x 84					
Shaker 2	Derrick	Pyramid x 84					

Bit # 3			Wear	I	O1	D	L	B	G	O2	R	
Size:	12.250in	IADC#:	115	Nozzles				Drilled over last 24 hrs		Calculated over Bit Run		
Mfr:	REED	WOB (avg):	7.0klb	No.	Size	Progress:		3.0m	Cum. Progress:			3.0m
Type:	Rock	RPM (avg):	75	1	12/32nd"	On Bottom Time:		0.17h	Cum. On Btm Time:			0.17h
Serial #:	D80027	F.Rate:	432gpm	3	20/32nd"	IADC Time:		0.50h	Cum. IADC Time:			0.50h
Depth In:	320.0m	SPP:	1050psi	Total Revs:				Cum. Total Revs:				0
Depth Out:		HSI:		ROP (avg):				Overall ROP (avg):				17.65 m/hr
Bit Model:	T11C	TFA:	1.031									

BHA # 3							
Wt. Below Jars Dry:	27.0klb	Length:	165.7m	Torque (max):	2000ft-lbs	DC (1) Ann Vel.:	98fpm
Weight Dry:	43.0klb	String Weight:	58.0klb	Torque On Btm:	2000ft-lbs	DC (2) Ann Vel.:	123fpm
Type:	Directional, down hole motor	Pick-Up Weight:	60.0klb	Torque Off Btm:	1800ft-lbs	HWDP Ann. Vel.:	82fpm
		Slack-Off Weight:	56.0klb			DP Ann. Vel.:	82fpm

#	Equipment	Tool Description	Length	O.D.	I.D.	Serial #	Hours
1	Bit	Tricone, w/ Geo-Pilot sleeve	0.82m		2.00in	D80027	0.50h
2	A675M78XP Mud Motor	8" Sperry Drill Lobe 6/7-4.0	8.22m	8.00in	5.25in	800168	
3	Float Sub	Float sub	0.65m	8.00in	2.81in	91506	
4	Stab	11-7/16" IB stab	1.89m		3.00in	7080449	
5	MWD Tool	8" Dir	2.77m	8.00in	1.92in	10603354	
6	MWD Tool	8" RLL	5.36m	8.00in	1.92in	DM90109064	
7	MWD Tool	8" HOC	3.08m	8.00in	1.92in	10562336	
8	Drill Collar	3x8"dc's	27.61m	8.00in	2.88in		
9	X/O	X-O	0.80m		3.00in		
10	Drill Collar	1x6-1/2" dc	9.05m	6.50in	2.81in		
11	Drilling Jars	Jars	9.95m	6.50in	2.75in	17602031	8.00h
12	Drill Collar	1x6-1/2"dc	9.42m	6.50in	2.81in		
13	HWDP	9xHWDP	86.05m	4.50in	2.75in		

<b>Survey</b>										
MD (m)	Incl. (deg)	Corr. AZ (deg)	TVD (m)	'V' Sect.	Dogleg (deg/100ft)	N/S (m)	E/W (m)	Departure	Deviation	Tool Type
190.20	4.72	115.20	190.0	-3.33	2.48	-3.33	7.08	7.83	115.2	MWD
303.70	23.67	118.68	299.5	-16.38	16.71	-16.38	31.52	35.52	117.5	MWD

<b>Bulk Stocks</b>					
Name	Unit	In	Used	Adjust	Balance
Barite	sx	0	0	0	1,200.0
KCl	sx	0	0	0	420.0
Salt	sx	0	0	0	0.0
Gel	sx	0	0	0	288.0
Potable Water	ltr	0	6000	0	31,000.0
Rig Fuel	ltr	0	2500	0	39,500.0
Camp Fuel	ltr	0	350	0	3,850.0

<b>Pumps</b>										
Pump Data - Last 24 Hrs							Slow Pump Data			
No.	Type	Liner (in)	SPM	Eff. (%)	Flow (gpm)	SPP (psi)	SPM	SPP (psi)	Depth (m)	MW (ppg)
1	National - 8P-80	5.50	85	97	216	1050	60	120	323.0	8.90
2	National - 8P-80	5.50	85	97	216	1050	60	120	323.0	8.90
3	National - 8P-80	5.50								
4	IDECO - T1000	6.00		97						

<b>HSE Summary</b>					
Events	Date of Last	Days Since	Description	Remarks	
BOP Drill	02 Aug 2006	0 Days	Simulated well control BOP Drill	BOP drill, shut in well, sound alarm, muster personal. Drilling crew returned to rig floor to discuss & observe the operation of circulating out a kick. Start pump & circ. thru. choke manifold, back thru. Poor Boy	
JSA	02 Aug 2006	0 Days	Rig service	Be alert running winch. Keep hands clear of pinch points. Correct PPE to be worn. Raise new JSA, due to additional Top Drive being fitted	