

30 Jul 2006

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

Well Data				Town Side QC Done	
Drill Co.:	Ensign	Midnight Depth (MD):	320.0m	Current Hole Size:	17.500in
Rig:	Ensign 32	Midnight Depth (TVD):	314.7m	Casing O.D.:	20.000in
Prognosed TD:	2350.0m	Progress:	128.0m	Shoe TVD:	60.0m
RT-GL:	5.80m	Days From Spud:	1.81	F.I.T. / L.O.T.	/
GL Elev.:	2.71m	Days On Well:	18.75	Rig Move Distance	1800+/- k's
Current Op's @ 0600 31 Jul 2006 :		WOC f/ 04:00hrs			
Planned Operations for 31 Jul 2006 :		WOC, back out Landing jnt., rig down riser, install BOP, pressure test same & surface equipment, set wear bushing, RIH 12-1/4" BHA			

**Summary of Period 0000 to 2400 Hrs**

Drill to 320m, circ. wiper to shoe, circ., POOH, rig & run 13-3/8" casing, circ. csg for cmt. job

**Operations For Period 0000 Hrs to 2400 Hrs on 30 Jul 2006**

Phse	Cls	Op	From	To	Hrs	Depth	Activity Description
SH	P	DM	0000	0500	5.00	320.0m	Drill f/ 192m to 320m. ( TVD = 314.7m ) ( survey @ 303.7m, 23.67 inc, 118.68 AZI )
SH	P	CHC	0500	0600	1.00	320.0m	Sweep 10bbls Hi Vis, circ. hole clean for wiper to shoe, spot 10 bbls Hi Vis
SC	P	WT	0600	0800	2.00	320.0m	Wiper to shoe, hole good, RIH, to 307m
SC	P	RW	0800	0830	0.50	320.0m	Wash f/ 307m to 320m, last 5m fill
SC	P	CHC	0830	0900	0.50	320.0m	Circ. hole clean
SC	P	TO	0900	1030	1.50	320.0m	POOH to bit
SC	P	HBHA	1030	1300	2.50	320.0m	Break & lay out, jewellery, MWD etc., back out IBS f/ Down hole motor, clear rig floor
SC	P	RRC	1300	1600	3.00	320.0m	Install bale adapters & additional bales & elev. to Top Drive bales to check operation & clearance, ok, rig down Ensign bales f/ Tesco bales. Rig to run 13-3/8" surface casing, hold safety meeting & JSA
SC	P	RC	1600	1900	3.00	320.0m	Pick up jnt. #1, slip solid master bushing over pin end of 13-3/8" csg., raise bushing with tugger to 5m above rig floor, install #2 solid centralisers with stop rings, make up shoe, fill with mud, check flow thru., lower master bushing into rotary table, make up ft. collar, fill with mud, check flow thru, cont. run 13-3/8" csg. to shoe @ 60m
SC	P	RC	1900	1930	0.50	320.0m	Break circ. while rigging up bale adapter plates to second set of extension bales to allow enough clearance to install circulating swedge & Haliburton cmt. head.
SC	P	RC	1930	2330	4.00	320.0m	Cont. run 28 jnts x 13-3/8" x 54.5 lb/ft x J55 x BTC casing to 317m, shoe depth ( lost 20bbls to formation while running casing)
SC	P	CIC	2330	2400	0.50	320.0m	Circ. prior to cement job

**Operations For Period 0000 Hrs to 0600 Hrs on 31 Jul 2006**

Phse	Cls	Op	From	To	Hrs	Depth	Activity Description
SC		CIC	0000	0100	1.00	320.0m	Circ. csg., pump 50bbls water ahead with rig pump
SC		HU	0100	0130	0.50	320.0m	Head up Halliburton
SC		HU	0130	0200	0.50	320.0m	Pump 5bbls water ahead, pressure test lines to 4000psi, pump 5bbls water spacer, release Bottom plug, pump 5bbls ahead, remove Hali. cmt. head cap & load Top plug.
SC		CMC	0200	0400	2.00	320.0m	Mix & pump 161bbls of 12.5ppg Lead cmt., followed by 90bbls of 15.8ppg Tail cmt., release Top plug, displace 158bbls water @ 4.7bpm, bump plug w/ 300psi, pressure up csg. to 1200psi for 10 minutes, good test, bleed back 1-1/2bbls, float holding
SC		WOC	0400	0600	2.00	320.0m	Wait On Cement.

Phse	Cls	Op	From	To	Hrs	Depth	Activity Description
							Perform Cmt. Top Up Job

General Comments	
Comments	Rig Requirements
29-07-06, Willox, transport water to camp & Turkeys nest, = 3hrs 30-07-06, Willox, transport water to camp & Turkeys nest = 15-1/2hrs	

WBM Data		Cost Today \$ 2578				Cumulative Cost \$ 6266			
Mud Type:	Spud Mud	Viscosity:	68sec/qt	API FL Loss:	8.5cc	CI	7000	Solids:	4.7
Depth:	320.0m	PV:	15cp	Filter Cake:	2/32nd"	K+:	1%	H2O:	94%
Time:	8:30	YP:	34lb/100ft <sup>2</sup>	HTHP FL:		Hard/Ca:	80	Oil:	
Weight:	9.10ppg	Gels 10s/10m:	20 / 25	HTHP Cake:		MBT:	15	Sand:	3
Temp:	52.0F°	Fann (3/6/100):				PM:	0.3	pH:	9.5
			18 / 20 / 37			PF:	0.1	PHPA:	

Comment

Shakers, Volumes and Losses Data				Engineer: Manfred Olejniczak / J.V.Babu			
Equipment	Description	Mesh Size	Available	Losses	Comment		
Centrifuge	DE 1000		Active 380.0bbl	Downhole			
Centrifuge	DE 1000		Mixing 367.0bbl	Surf. + Equip.294.0bbl			
Shaker 1	Derrick	Pyramid x 84	Hole 410.0bbl	Dumped			
Shaker 1	Derrick	Pyramid x 84	Slug	De-Sander			
Shaker 2	Derrick	Pyramid x 84	Reserve 0.0bbl	De-Silter			
Shaker 2	Derrick	Pyramid x 84	Kill	Centrifuge			

Bit # 1				Wear	I	O1	D	L	B	G	O2	R
				0	0	NO	A	0	I	RR	BHA	
Size:	17.500in	IADC#:	115 M	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	REED	WOB (avg):	10.0klb	No.	Size	Progress:	0.0m	Cum. Progress: 20.0m				
Type:	mt	RPM (avg):	85	1	16/32nd"	On Bottom Time:	0.00h	Cum. On Btm Time: 0.45h				
Serial #:	J50351	F.Rate:	625gpm	3	20/32nd"	IADC Time:	0.00h	Cum. IADC Time: 1.00h				
Depth In:	100.0m	SPP:	600psi	Total Revs:			Cum. Total Revs: 0					
Depth Out:	120.0m	HSI:		ROP (avg):			N/A	Overall ROP (avg): 44.44 m/hr				
Bit Model:	T11C	TFA:	1.117									

Bit # RR1				Wear	I	O1	D	L	B	G	O2	R
				1	1	NO	A	0	I	RR	TD	
Size:	17.500in	IADC#:	115M	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Mfr:	REED	WOB (avg):	10.0klb	No.	Size	Progress:	128.0m	Cum. Progress: 200.0m				
Type:	mt	RPM (avg):	50	1	16/32nd"	On Bottom Time:	2.20h	Cum. On Btm Time: 2.95h				
Serial #:	J50351	F.Rate:	625gpm	3	20/32nd"	IADC Time:	5.00h	Cum. IADC Time: 7.50h				
Depth In:	120.0m	SPP:	1250psi	Total Revs:			Cum. Total Revs: 0					
Depth Out:	320.0m	HSI:		ROP (avg):			58.18 m/hr	Overall ROP (avg): 67.80 m/hr				
Bit Model:	T11C	TFA:	1.117									

BHA # 1							
Wt. Below Jars Dry:	7.0klb	Length:	120.0m	Torque (max):		DC (1) Ann Vel.:	58fpm
Weight Dry:	11.0klb	String Weight:		Torque On Btm:		DC (2) Ann Vel.:	63fpm
Type:	Pendalum	Pick-Up Weight:		Torque Off Btm:		HWDP Ann. Vel.:	54fpm
		Slack-Off Weight:				DP Ann. Vel.:	0fpm
#	Equipment	Tool Description	Length	O.D.	I.D.	Serial #	Hours
1	Bit	T11C bit, with 3x20 jets & 1x16 centre jet	0.47m	17.50in		J50351	1.00h
2	Stab	17-1/2" stab	2.59m			DA 9011	1.00h
3	Bit Sub	Bit sub	0.92m				1.00h
4	8in DC	3 x 8" dc's	27.61m	8.00in	3.00in		1.00h
5	X/Over	x-o	0.80m		2.75in		1.00h
6	6.5in DC	1x6-1/2" dc	9.05m	6.50in	2.75in		1.00h
7	Drilling Jars	Drilling Jars	9.95m	6.50in	2.75in	1760-2031	1.00h
8	6.5in DC	1x6-1/2"dc	9.42m	6.50in	2.75in		1.00h
9	HWDP	HWDP x 4.5"	59.19m	4.50in	2.88in		1.00h

BHA # 2							
Wt. Below Jars Dry:	29.0klb	Length:	163.4m	Torque (max):	1420ft-lbs	DC (1) Ann Vel.:	58fpm
Weight Dry:	46.0klb	String Weight:	68.0klb	Torque On Btm:	1400ft-lbs	DC (2) Ann Vel.:	63fpm
Type:	Directional	Pick-Up Weight:	70.0klb	Torque Off Btm:	1300ft-lbs	HWDP Ann. Vel.:	54fpm
		Slack-Off Weight:	66.0klb			DP Ann. Vel.:	54fpm
#	Equipment	Tool Description	Length	O.D.	I.D.	Serial #	Hours
1	Bit	T11C,RR1 bit with 3x20 & 1x16 centre jet	0.47m	17.50in	2.00in	J50351	7.50h
2	A675M78XP Mud Motor	9-5/8" Sperry Drill Lobe	9.68m	9.63in	6.14in	9632212	
3	Float Sub	Flt. sub	0.83m	9.43in	2.81in	A253	
4	Stab	IBS	2.59m	9.50in	3.00in	DA9011	
5	X/O	x-o	1.05m	9.50in	2.80in	DA9083	
6	MWD	MWD	2.77m	8.00in	1.92in		
7	MWD	MWD	3.08m	8.06in	1.92in	10562336	
8	8in DC	3x8"dc's	27.61m	8.00in	2.81in		
9	X/O	x-o	0.80m	8.00in	2.81in		
10	6.5in DC	1x6-1/2"dc	9.05m	6.50in	2.81in		
11	Drilling Jars	Jars	9.95m	6.50in	2.75in	17602030	7.50h
12	6.5in DC	1x6-1/2"dc	9.42m	6.50in	2.81in		
13	HWDP	9x4-1/2" HWDP	86.05m	4.50in	2.75in		

Survey											
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	

Bulk Stocks						
Name	Unit	In	Used	Adjust	Balance	
Barite	SX	0	0	0	1,200.0	
KCl	SX	0	80	0	720.0	
Salt	SX	0	0	0	0.0	
Gel	SX	0	0	0	288.0	
Potable Water	ltr	42000	8000	0	56,000.0	
Rig Fuel	ltr	0	4500	0	33,000.0	
Camp Fuel	ltr	0	350	0	4,900.0	

<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	110	97	280	1250			320.0	8.90
2	National - 8P-80	5.50								
3	National - 8P-80	5.50								
4	IDECO - T1000	6.00	100	97	300	1200			320.0	8.90

<b>HSE Summary</b>				
Events	Date of Last	Days Since	Description	Remarks
Safety Meeting	30 Jul 2006	0 Days	Rig & run 13-3/8" csg.	Be alert handling the larger type csg. Keep hands clear of pinch points. Look up when operating the tugger. Watch out for tugger hanging up in Mast. Keep clear of the csg. coming thru. the "V" door. Only one operator to run power tong. If he wants a break be sure he knows how to operate the tong.
ToolBox Talk	30 Jul 2006	0 Days	Handle BHA	. Discuss laying out BHA. Keep alert. Give clear hand signals to tugger operators. Be aware of Fork Lift operations