DAILY DRILLING REPORT

19/10/2006

REPORT # 42

WELL	**Glenaire 01 ST1**	**24:00 DEPTH**	**3507m**	**24 HR PROG**	**89m**	**CUM. COSTS**	
RIG	Ensign # 32	**FORMATION**	Laira	**PTD**	3945m	**DAILY COSTS**	

OP's TO 06:00: Slide / Drill f/ 3418m to 3507, Circ. bot's up, Survey, POOH to 2000m, spot 60bbls 13.5ppg mud, POOH, lay out Schlumb. tools, Jars & Monal d.c., RR bit, p.u. #1 std. d.c.& new Jars, RIH to 2580m, circ.out 13.5ppg pill

REMARKS / FORWARD PLAN: Lost 10bbls mud to annulus to 2000m, spot 13.5ppg pill, lost additional 18bbls for trip. >> Op. = Drill ahead, reduce mud wt. 0.1ppg per. circulation & evaluate

PERSONNEL ON SITE: 40

LAST CASING	7 "	**SET AT**	2998m	**LOT**	13.8ppg	**MAASP**	**1279psi**	**BOP TEST**	11/10/2006	**TEST DUE**	25/10

AFD's: 82

SAFETY: 1. Toolbox meeting; 2. Safety meeting, regarding losing mud to formation

WEATHER AM: Overcast
PM: Overcast

BIT INFORMATION			
WOB(kLb)	3-6	**JET V(fps)**	73
RPM	200	**H S I**	0.24
BIT NUMBER		**RR4**	
Size (in)		6.0	
Make		Hyc	
Type		DSX516M	
IADC Code			
Serial Number		114752	
T.F.A.(")			
Depth In (m)		3507	
Depth Out (m)			
Total Meters			
Hours			
ROP			
Condition Out		1 1 NO A X 1 1 BHA	
FLOW DATA			
CIRC. RATE (gpm)		210	
AV - DP (fpm)		217	
AV - DC (fpm)		383	
SPP (psi)		3150	
SPP (calculated)			
PUMP #1		**PUMP #2**	
8-P-80		**8-P-80**	
RATE	40	**RATE**	60
LINER	5.0"	**LINER**	5.0"
STROKE	8.5"	**STROKE**	8.5"
SCR: 1040 @ 630		SCR: 1060 @ 640	
SURVEYS			
1.56° at 3464m			
1.37° at 3491m			

BHA # 10	
TOOL	**LENGTH**
DSX516M-B1, RR4	0.19
P100XL Mud Motor	6.79
Float sub	0.52
MWD NM pony collar	1.94
MWD collar	10.30
NMDC	9.30
11xDC's	104.08
Jars	9.34
3xDCs	28.30
9xHWDP	85.50
BHA LENGTH (m)	256.26
BHA WEIGHT(kLb)	32.5
STRING WT (kLb)	181.4
HOOK LOAD (kLb)	191.0
WT BELOW JARS (kLb)	
DRAG UP (kLb)	202.0
DRAG DOWN (kLb)	181.0
TORQUE ON (Amps/Rel.)	5650
TORQUE OFF (Amps/Rel.)	4093
BULK PRODUCTS	
FUEL ON SITE	20500 Litres
DAILY USAGE	11750 Litres
CUM. FUEL USED	174388 Litres
BARITES ON SITE	50 kg
BARITES USED	250 kg
MUD MIXED	5102 Bbls
MUD LOSSES	4112 Bbls

MUD PROPERTIES	
Time	1600
Depth (m)	3507
Temp (° C)	54
Mud Type	KCL/PHPA/POL
Density (ppg)	11.30
ECD (ppg)	
Viscosity (sec)	35
PV / YP (cp/lb)	10 / 9
Gells (s/m)	1 / 2
API Filt. (cc)	5.2
Cake (/32")	1
Solids (% Vol)	9.3
Sand (% Vol)	Tr
MBT	9
pH (strip)	9
Chlorides (mg/l)	182000
KCL (%)	7.75
PHPA (ppb)	0.69
ALC - 50 (K)	
Circ. Vol. (Bbl)	815
CHEMICAL USAGE	
Barite	304
Biocide G	1
Caustic Soda	1
PHPA	2
Xanthan Gum	3
KCL	84
Kwikseal F	2

OPERATION	**HRS**	**CUM**
BOP's / Wellhead		36.0
Cementing		8.5
Circ & Condition	1.5	37.5
Coring		
D/O Cement		12.5
Drilling	12.5	364.0
FIT / LOT		4.0
Handle BHA		13.0
Repairs		67.5
Rig Service		6.5
Rig up Csg./ Cmt.		11.0
Run Casing		32.5
Safety	0.5	2.0
Slip/Cut Drill Line		7.0
Survey	2.0	36.5
Test BOP		24.0
Tight hole / Fishing		
Tripping	7.0	196.5
Wait on Cement		24.5
Wash / Ream		8.0
Well Control		3.5
Well Test		
Wiper Trip		14.5
Wireline		8.5
Other	0.5	83.0
TOTALS	24.0	1001.0
DAILY MUD COSTS		$5,747.18
CUM. MUD COSTS		**$151,145.26**
AFE COST - C&S		
AFE COST - P&A		
AFE COST - C&C		

HOURLY OPERATIONS SUMMARY 0000 to 2400

From	To	Description
0:00	0:30	Slide f/ 3418m to 3419m, 244gpm = 127rpm
0:30	1:00	Drill f/ 3419m to 3423m, rotating 60rpm, 244gpm = 127rpm (total 187rpm) WOB = 3k > 4k
1:00	1:30	Survey @ 3407.21, 2.92 deg., AZI = 211.58
1:30	4:30	Drill f/ 3423m to 3443m, rotating 60rpm, losing mud @ 20bbls/ hr f/ 3440m, add LCM
4:30	5:00	Survey @ 3427.02, 2.99 deg., AZI = 169.22
5:00	6:00	Drill f/ 3443m to 3452m, rotating 60rpm
6:00	6:30	Take SCR's, make connection & hold "Safety Meeting" due to losses to the hole @ 20bbls.hr (med. / fine sands @ 3440m)
6:30	7:00	Survey @ 3436m, failed due to pop off relief valve on mud pump
7:00	10:30	Drill f/ 3452m to 3480m, rotating 60rpm, 240gpm = 125rpm, (total 185rpm), WOB = 4 > 7k
10:30	11:00	Survey @ 3464.60m, 1.56 deg., AZI = 157.28
11:00	15:00	Drill f/ 3480m to 3507m, rotating 60rpm, 240gpm = 125rpm, (total 185rpm) WOB = 5 > 9k
15:00	16:00	Circ. Bottoms up
16:00	16:30	Survey @ 3491.68m, 1.37 deg., AZI = 50.64 >>>>>>>>> (Projection to bottom @ 3507.00, 1.2 deg., AZI = 40)
16:30	19:30	Flow check, slug pipe, POOH to shoe (intermittent 10k to 25k for first 10std's to 3220m), flow check, cont. POOH to 2000m
19:30	20:00	"Lost 10bbls to the hole, while POOH to 2000m", Spot 60bbls 13.5ppg mud (493m) (2000m back to 1507m)
20:00	0:00	Cont. POOH to jars lay out same & pick up new set.S/N 1400-222A

MAXIMUM GAS:	3443% @ 1646m	**BACKGROUND GAS:**	125 - 250%	**CONNECTION GAS:**	3480%	**TRIP GAS:**	2548%
SUPERVISOR:	Brian Marriott/ Ray Ell	**GEOLOGIST:**	Dave Horner	**MUD CO:**	RMN Drilling Fluids		