

Ranger Oil Limited

DAILY DRILLING REPORT



WELL NAME: RANGER NOTA CREEK C-17 DATE: 97/01/08 REPORT NO.: 14
 DEPTH: 301 mKB PROGRESS: 43 m FORMATION: HEADLESS
 OPERATIONS AT 08:00 HOURS: Drill 311 mm ahead
 CONTRACTOR/RIG SUPT.: Shehah Drilling Limited Neil Speers CO. SUPERVISOR: Lee Brazel
 DAILY COST: \$ 83,913.00 CUM. COST: \$ 1,517,779.00 AFE NO: E7D-028

WELL CONTROL

DAILY RIG CHECK: x DAILY BOP CHECK: x R.S.S.P.: 2400 kPa @: 110 SPM
 TRIP RECORDS: CALCULATED HOLE FILL m3 ACTUAL HOLE FILL: m3
 BOP DRILLS: CONDUCTED WHILE Connection WELL SECURED IN 2 MIN.
 CONDUCTED AT 97/01/08 at 1145 HRS. CRW PERFORMANCE fair
 DAYS SINCE BOP DRILL (EACH CREW): MAXIMUM CASING HOLD BACK 1500 kPa

DRILLING PARAMETERS

BIT PERFORMANCE			MUD PROPERTIES			PUMPS		
BIT NUMBER	1RR	2	WEIGHT (kg/m3)	1300		No. 1 LINER (mm)	152X216	
SIZE (mm)	311	311	VISCOSITY (cp)	90		No. 1 SPM	110	
TYPE	J2	GT 28	PH	9		No. 2 LINER (mm)	152X216	
SERIAL No.	83SCG	H80YB	PV (mPa S)	23		No. 2 SPM	110	
NOZZLES (mm)	15.8	15.8	YP (Pa)	24.5		VOLUME (m3/min.)	2.60	
DEPTH IN (m)	184	285	GELS (Pa)	5112		PRESSURE (kPa)	8800	
METERS (m)	84	18	SAND (%)	0.1		D.P. ANN. VEL. (m/min.)	36	
HOURS	43.5	6.75	SOLIDS (%)	22		D.C. ANN. VEL. (m/min.)	48	
WOB (1000 lbs)	915	15	FILTER CAKE (mm disc.)	2		D.C. ANN. VEL. (m/min.)	71	
R.P.M.	140	70	WATER LOSS (cc)	8		SOLIDS CONTROL		
CONDITION	8.6 WT		CHLORIDES (mg/l)	220		SHAKER SCREENS	110x110	
A F R G 2 PR			MBT	57		PUMP OUT (m3/eth)	0.01181	
			Temp	44c				

DRILLING ASSEMBLY

ITEMS	O.D.	I.D.	T.J. TYPE	MUD ADDITIVES			D. SILT.		CENT.		
BIT	311		168 Reg	Sacks	Product	Cost Per sack	O.F. (kg/m3)				
Bit Sub	228	76	168 Reg	2	Caustic	\$ 77.00	U.F. (kg/m3)				
Shock sub	228	76	168 Reg	81	Bentonite	\$ 15.00	VOL. (l/min.)				
3 Drill Collars	228	76	168 Reg		Soda Ash	\$ 40.00	HOURS				
Jars	228	76	168 Reg	213	Barite	\$ 18.00					
3 Drill Collars	228	76	168 Reg		XCD	\$ 845.00					
XO	171	68	127 H80	1	Aquepac	\$ 380.00					
12 Drill Collars	171	68	127 H80								
DHA LENGTH	171		m				263	m	0.8		
HOOK LOAD	38000		daN				282	m	0.5		
AVAILABLE WOB	24000		daN	1	Service	\$ 350.00		m			
Joints DP. on Racks:	223				Daily Mud Cost	\$ 5,643.00		m			
In String:	12				Total Mud Cost	\$ 28,034.00		m			
TOTAL:	235							m			

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY	
DRILLING	15.00	CORING		RIG REPAIR		TODAY	CUM.
TRIPPING	7.00	LOGGING		LOST CIRC.		24	
RIG SERVICE	0.50	TESTING		REAM & WASH			
SURVEY	0.75	CIRC. SAMPLE		WORK PIPE			
SLIP & CUT		HANDLE TOOLS		FISH			
COND. MUD	0.75	TRIP		TRIP			
NIPPLE UP/DN		REAM RATHOLE					
RUN CASING							
CEMENT							
HANDLE TOOLS							
				Total Hours	24.00		

Time 24 Hour Summary Time
 Drilled 258 to 276 mKb
 Circulated and surveyed as required
 Rig and function tested Hydril. BOP Drill. Accumulator function test
 Drilled 276 to 285 mKb
 Tripped for bit
 Drilled 285 to 286 mKb
 Rig serviced and function tested hydril.
 Drilled 286 to 301 mKb
 Circulated and surveyed as required

(FORMATIONS) Amica (or Bear Rock??)SIGNED BY: Lee BrazelMOBILE No.: 403-282-9301

DAILY DRILLING REPORT



WELL NAME: RANGER NOTA CREEK C-17 DATE: 08/01/04 REPORT NO.: 12
 DEPTH: 180 mKS PROGRESS: 28 m FORMATION: Hume
 OPERATIONS AT 08 00 HOURS: Drill ahead 311 mm
 CONTRACTOR/RIG SUPT.: Shehatah Drilling Limited Neil Speers CO. SUPERVISOR: Lee Brazel
 DAILY COST: \$ 33,847.60 CUM. COST: \$ 1,418,413.00 AFE NO: E7D-029

WELL CONTROL

DAILY RIG CHECK: x DAILY BOP CHECK: x R.S.S.P.: 1300 kPa @: 110 SPM
 TRIP RECORDS: CALCULATED HOLE FILL m3 ACTUAL HOLE FILL: m3
 BOP DRILLS: CONDUCTED WHILE Connection WELL SECURED IN: 3 MIN.
 CONDUCTED AT 07/01/04 at 0545 HRS. CREW PERFORMANCE poor
 DAYS SINCE BOP DRILL (EACH CREW): MAXIMUM CASING HOLD BACK 1726 kPa

DRILLING PARAMETERS

BIT PERFORMANCE		MUD PROPERTIES		PUMPS	
BIT NUMBER	1RR	WEIGHT (kg/m3)	1170	No. 1 LINER (mm)	152X218
SIZE (mm)	311	VISCOSITY (a/l)	62	No. 1 SPM	110
TYPE	J2	pH	9.5	No. 2 LINER (mm)	152X216
SERIAL No.	B35CG	PV (mPa S)	16	No. 2 SPM	110
NOZZLES (mm)	19.9	YP (Pa)	11.5	VOLUME (m3/min.)	2.60
DEPTH IN (m)	184	GELS (Pa)	211	PRESSURE (kPa)	6450
METERS (m)	28	SAND (%)	0.003	D.P. ANN. VEL. (m/min.)	
HOURS	15.26	SOLIDS (%)	0.1	D.C. ANN. VEL. (m/min.)	48
WOB (1000 lbs)	8	FILTER CAKE (mm deep)	2	D.C. ANN. VEL. (m/min.)	71
R.P.M.	140	WATER LOSS (cc)	11	SOLIDS CONTROL	
CONDITION		CHLORIDES (mg/l)	220	SHAKER SCREENS	110x110
		MBT	50	PUMP OUT (m3/hr)	0.01181

DRILLING ASSEMBLY

ITEMS	O.D.	I.D.	T.J. TYPE	MUD ADDITIVES			D. SILT		CENT.		
BIT	311		168 Reg	Backs	Product	Cost Per m3	O.F. (kg/m3)				
Bit Sub	228	76	168 Reg		Ceustic	\$ 77.00	U.F. (kg/m3)				
Shock sub	228	76	168 Reg	93	Bentonite	\$ 15.00	VOL (l/min.)				
3 Drill Collars	228	76	168 Reg	3	Soda Ash	\$ 40.00	HOURS				
Jars	228	76	168 Reg	168	Barite	\$ 18.00					
3 Drill Collars	228	76	168 Reg								
XO	171	68	127 H90								
12 Drill Collars	171	68	127 H90								
BHA LENGTH	171	m									
HOOK LOAD	34500	daN									
AVAILABLE WOB	24000	daN		17	Service	\$ 350.00					
Joints DP, on Racks:	235				Daily Mud Cost	\$ 10,488.00					
In String:					Total Mud Cost	\$ 13,647.00					
TOTAL:	235										

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY	
DRILLING	15.26	CORING		RIG REPAIR	1.25	DRILL OP	
TRIPPING		LOGGING		LOST CIRC.		EVALUATION	
RIG SERVICE	0.25	TESTING		REAM & WASH		PROBLEMS	
SURVEY		CIRC. SAMPLE		WORK PIPE		TOTAL	
SLIP & CUT		HANDLE TOOLS		FISH		WEATHER	Clear
CONG. MUD	6.50	TRIP		TRIP		TEMPERATURE	41 C
NIPPLE UP/DN		REAM PATHHOLE				ROADS	Good
RUN CASING				Pressure test	0.50		
CEMENT				BOP Dril	0.25		
HANDLE TOOLS				Total Hours	24.00		

Time	24 Hour Summary	Time
Drilled 311 mm from 185 to 171 mKb		
Leak off test at 171 mKb. Leak off test was run at 10 litre a min with no formation leak off at 23 kpa/m. Terminated test		
Displaced hole and conditioned mud		
Drilled 311 mm from 171 to 181 mKb		
Circulated and surveyed		
Drilled 181 to 188 mKb. Very rough drilling. Flow checked (light flow). 10 minute flow check produced 550 units of gas readings. Light flow while drilling ahead with volume increase with low gas readings (Water flow was 2.2 m3 per hour)		
Circulate and weight up drilling mud.		
Drilled 311 mm from 186 to 187 mKb		
Repairs to Kelly spinner (Kelly spinner fell off swivel while drilling)		
Drilled 311 mm from 187 to 180		

NOTE: SCR Generator down for 7 hours

(FORMATIONS) Hume 147 mKb

SIGNED BY: Lee BrazelMOBILE No.: 403-282-8301

DAILY DRILLING REPORT



WELL NAME: RANGER NOTA CREEK C-17 DATE: 08/01/03 REPORT NO.: 11
 DEPTH: 195 mKB PROGRESS: 1 m FORMATION: Hume
 OPERATIONS AT 08:00 HOURS: Drill ahead 311 mm
 CONTRACTOR/RIG SUPT.: Sheehan Drilling Limited Neil Speers CO. SUPERVISOR: Lee Brazel
 DAILY COST: \$ 38,801.88 CUM. COST: \$ 1,384,566.00 AFF NO: ETD-029

WELL CONTROL
 DAILY RIG CHECK: x DAILY BOP CHECK: x R.S.S.P.: _____ kPa @: _____ SPM
 TRIP RECORDS: CALCULATED HOLE FILL _____ m³ ACTUAL HOLE FILL: _____ m³
 BOP DRILLS: CONDUCTED WHILE _____ WELL SECURED IN _____ MIN.
 CONDUCTED AT _____ HRS. CREW PERFORMANCE _____
 DAYS SINCE BOP DRILL (EACH CREW): _____ MAXIMUM CASING HOLD BACK 0 kPa

BIT PERFORMANCE			MUD PROPERTIES			PUMPS		
BIT NUMBER	1RR		WEIGHT (kg/m ³)			No. 1 LINER (mm)	152X218	
SIZE (mm)	311		VISCOSITY (s/l)			No. 1 SPM	115	
TYPE	J2		pH			No. 2 LINER (mm)	152X216	
SERIAL No.	B3SCG		PV (mPa S)			No. 2 SPM	115	
NOZZLES (mm)	13.9		YP (Pa)			VOLUME (m ³ /min.)	2.72	
DEPTH IN (m)	184		GELS (Pa)			PRESSURE (kPa)	9000	
METERS (m)	1		SAND (%)			D.P. ANN. VEL. (m/min.)	48	
HOURS	1		SOLIDS (%)			D.C. ANN. VEL. (m/min.)	71	
WOB (1000 Dm)	4		FILTER CAKE (mm dact.)			D.C. ANN. VEL. (m/min.)	71	
R.P.M.	90		WATER LOSS (cc)			SOLIDS CONTROL		
CONDITION			CHLORIDES (mg/l)			SHAKER SCREENS	100 x 100	
						PUMP OUT (m ³ /sec)	0.01181	

DRILLING ASSEMBLY				MUD ADDITIVES				D. SILT. CENT.	
ITEMS	O.D.	I.D.	T.J. TYPE	SECKS	Product	Cost Per/K	O.F. (kg/m ³)		
BIT	311		188 Reg		Cerulic	\$ 77.00	U.F. (kg/m ³)		
Bit Sub	228	76	188 Reg		Bentonite	\$ 15.00	VOL. (l/min.)		
Shock sub	228	76	188 Reg		Soda Ash	\$ 40.00	HOURS		
3 Drill Collars	228	76	188 Reg						
Jars	228	76	188 Reg						
3 Drill Collars	228	76	188 Reg						
XO	171	88	127 H90						
9 Drill Collars	171	88	127 H90						
BHA LENGTH		148	m						
HOOK LOAD		32000	daN						
AVAILABLE WOB			daN						
Joints DP. on Racks:	235								
In String:									
TOTAL:	235								
				Time Break Down					
				Daily Mud Cost	\$	-			
				Total Mud Cost	\$	3,158.00			

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY	
DRILLING	1.00	CORING		RIG REPAIR		TODAY	CUM.
TRIPPING	4.50	LOGGING		LOST CIRC.			47.75
RIG SERVICE	0.25	TESTING		REAM & WASH			
SURVEY		CIRC. SAMPLE		WORK PIPE			
SLIP & CUT		HANDLE TOOLS		FISH			
COND MUD		TRIP		TRIP			
NIPPLE UP/DN	2.50	REAM RATHOLE					
RUN CASING							
CEMENT							
HANDLE TOOLS							
				Pressure test	8.75	WEATHER	
				Drig Mouse hot	2.50	TEMPERATURE	
				Drig out	4.60	ROADS	
				Total Hours	24.00		

Time 24 Hour Summary Time
 Pick up drilling BHA and trip in hole with 311 mm bit
 Pressure test at 1400 Kpa at 10 minutes. 14000 Kpa at 10 minutes. Lower pipe rams, stabbing valve (unthaw kill lines).
 Pressure test upper pipe rams. Inside BOP (Disarm and clean). Mud line check valve (Remove check Valve and clean)
 Hydrii was pressure tested at 1500 KPA at 10 minutes. 10500 KPA at 10 minutes
 Pressure test Hydrii. Check valve (Failed test. Parts ordered from Edmonton) Lower Kelly cock (Failed test. Replaced with spare one) and pressure tested.
 Pressure tested Hydrii. Upper Kelly valve (Failed test). Replaced with a spare and pressure tested.
 Pick up drill collar and drilled mouse hole
 Unthaw steam tracing and reinitiate mud line (Valve was shut off)
 Drift out rubber. Float and shoe.
 Drill 311 mm 184 to 185 mKB

NOTE: Under shoe 0500 hours 08/01/04

(FORMATIONS) Hume 147 mKB

SIGNED BY: Lee Brazel

MOBILE No.: 403-282-9301

Ranger Oil Limited

DAILY DRILLING REPORT



WELL NAME: RANGER NOTA CREEK C-17 DATE: 08/01/01 REPORT NO.: 9
 DEPTH: 184 mKB PROGRESS: m FORMATION: Huma
 OPERATIONS AT 08:00 HOURS: Nipple up BOP's
 CONTRACTOR/RIG SUPT.: Shenhua Drilling Limited Neil Spears CO. SUPERVISOR: Lee Brazil
 DAILY COST: \$ 38,197.00 CUM. COST: \$ 1,304,537.00 AFE NO: E7D-028

WELL CONTROL
 DAILY RIG CHECK: DAILY BOP CHECK: R.S.S.P.: kPa @: SPM
 TRIP RECORDS: CALCULATED HOLE FILL m³ ACTUAL HOLE FILL: m³
 BOP DRILLS: CONDUCTED WHILE WELL SECURED IN MIN.
 CONDUCTED AT HRS. CREW PERFORMANCE
 DAYS SINCE BOP DRILL (EACH CREW): MAXIMUM CASING HOLD BACK 0 kPa

BIT PERFORMANCE			MUD PROPERTIES			PUMPS		
BIT NUMBER			WEIGHT (kg/m ³)			No. 1 LINER (mm)		152X218
SIZE (mm)			VISCOSITY (cp)			No. 1 BPM		
TYPE			pH			No. 2 LINER (mm)		152X218
SERIAL No.			PV (mPa S)			No. 2 BPM		
NOZZLES (mm)			YP (Pa)			VOLUME (m ³ /min.)		0.00
DEPTH IN (m)			GELS (Pa)			PRESSURE (kPa)		
METERS (m)			SAND (%)			D.P. ANN. VEL. (m/min.)		
HOURS			SOLIDS (%)			D.C. ANN. VEL. (m/min.)		
WOB (1000 lbs)			FILTER CAKE (mm disc)			D.C. ANN. VEL. (m/min.)		
R.P.M.			WATER LOSS (cc)			SOLIDS CONTROL		
CONDITION			CHLORIDES (mg/l)			SHAKER SCREENS		100 x 100
						PUMP OUT (m ³ /hr)		0.01181

DRILLING ASSEMBLY

ITEMS	O.D.	I.D.	T.J. TYPE
BIT	444.5	84	188 Reg
Bit Sub	228	78	188 Reg
Bit Sub	228	78	127 H90
Monel	170	88	127 H90
Jars	170	70	127 H90
9 Drill Collars	185	88	127 H90
XO	168	88	127 H90

MUD ADDITIVES

Backs	Product	Cost Per/1000
	Caustic	\$ 77.00
	Bentonite	\$ 15.00
	Soda Ash	\$ 40.00

D.F. (kg/m³)
 U.F. (kg/m³)
 VOL. (l/min.)
 HOURS

D. SILT	CENT.

SURVEYS

DIRECTION

BHA LENGTH 102 m
 HOOK LOAD 28000 daN
 AVAILABLE WOB 10000 daN
 Joints DP. on Reels: 220
 In String: 8

Daily Mud Cost \$
 Total Mud Cost \$ 3,158.00

TOTAL: 235

Time Break Down

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY	
DRILLING		CORING		RIG REPAIR		TODAY	CUM.
TRIPPING		LOGGING		LOST CIRC			47.75
RIG SERVICE		TESTING		REAM & WASH			
SURVEY		CIRC. SAMPLE		WORK PIPE			
SLIP & CUT		HANDLE TOOLS		FISH			
COND. MUD		TRIP		TRIP			
NIPPLE UP/DN	18.00	REAM RATHOLE		Safety MTG			
RUN CASING				Weld on bowl	8.00		
CEMENT		W.O.CEMENT					
HANDLE TOOLS							
				Total Hours	24.00		

Time 24 Hour Summary Time
 Weld on bowl (Bowl preheated to approx. 100c. Welded, insulated and cooled for 3 hours. Pressure tested weld to 5000 Kps for ten minutes.
 Nipple up BOP's

Note: Ground: 188.72m
 KB to GRD: 5.50m KB Elevation: 172.22m
 KB to CF: 5.15m CF Elevation: 187.07m

(FORMATIONS) Huma 147 mKB

SIGNED BY: Lee Brazil MOBILE No.: 403-282-8301

Ranger Oil Limited

DAILY DRILLING REPORT



WELL NAME: RANGER NOTA CREEK C-17 DATE: 97/12/31 REPORT NO.: 8
 DEPTH: 184 mKB PROGRESS: m FORMATION: Huma
 OPERATIONS AT 08:00 HOURS: Weld on bowl
 CONTRACTOR/RIG SUPT.: Shehta Drilling Limited Neil Speers CO. SUPERVISOR: Lee Brazel
 DAILY COST: \$ 88,103.00 CUM. COST: \$ 1,288,340.00 AFE NO: E7D-029

WELL CONTROL
 DAILY RIG CHECK: DAILY BOP CHECK: R.S.S.P.: kPa @ SPM
 TRIP RECORDS. CALCULATED HOLE FILL m³ ACTUAL HOLE FILL: m³
 BOP DRILLS: CONDUCTED WHILE WELL SECURED IN MIN.
 CONDUCTED AT HRS. CREW PERFORMANCE
 DAYS SINCE BOP DRILL (EACH CREW): MAXIMUM CASING HOLD BACK 0 kPa

DRILLING PARAMETERS

BIT PERFORMANCE			MUD PROPERTIES			PUMPS		
BIT NUMBER			WEIGHT (kg/m ³)	1090		No. 1 LINER (mm)	152X218	
SIZE (mm)			VISCOSITY (cP)	48		No. 1 SPM	100	
TYPE			pH	9		No. 2 LINER (mm)	152X218	
SERIAL No.			PV (mPa S)			No. 2 SPM	100	
NOZZLES (mm)			YP (Pa)			VOLUME (m ³ /min.)	2.36	
DEPTH IN (m)			GELS (Pa)			PRESSURE (kPa)	2500	
METERS (m)			SAND (%)			D.P. ANN. VEL. (m/min.)		
HOURS			SOLIDS (%)			D.C. ANN. VEL. (m/min.)		
WOB (1000 lbs)			FILTER CAKE (mm desc.)			D.C. ANN. VEL. (m/min.)		
R.P.M.			WATER LOSS (cc)			SOLIDS CONTROL		
CONDITION			CHLORIDES (mg/l)			SHAKER SCREENS	50X50	
						PUMP OUT (m ³ /hr)	0.01181	

DRILLING ASSEMBLY

ITEMS	C.D.	I.D.	T.J. TYPE	MUD ADDITIVES			D. SILT. CENT.	
BIT	444.5	64	188 Reg	Secks	Product	Cost Per m ³	O.F. (kg/m ³)	
Bit Sub	228	78	188 Reg		Caustic	\$ 77.00	U.F. (kg/m ³)	
Ball Sub	228	78	127 H90		Bentonite	\$ 15.00	VOL. (l/min.)	
Monel	170	68	127 H90		Soda Ash	\$ 40.00	HOURS	
Jars	170	70	127 H90					
9 Drill Collars	185	68	127 H90					
XO	184	68	127 H90					
BHA LENGTH	102	m						
HOOK LOAD	26000	daN						
AVAILABLE WOB	10000	daN						
Joints DP. on Racks:	228			Daily Mud Cost	\$	-		
In String:	8			Total Mud Cost	\$	3,158.00		
TOTAL:	235							

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY	
DRILLING		CORING		RIG REPAIR		TODAY	CUM.
TRIPPING		LOGGING		LOST CIRC.			47.75
RIG SERVICE		TESTING		REAM & WASH			
SURVEY		CIRC. SAMPLE		WORK PIPE			
SLIP & CUT		HANDLE TOOLS		FISH			
COND. MUD	3.50	TRIP		TRIP			
NIPPLE UP/DN	2.00	REAM RATHOLE		Safety MTG	0.50		
RUN CASING	3.50			Dig Celler	4.50		
CEMENT	2.00	W.O. CEMENT	5.00				
HANDLE TOOLS				Total Hours	24.00		

Time 24 Hour Summary Time
 Ran 14 joints of 339.7mm Sumitomo, K55, 81.1Kg/m, ST&C, new casing. Overall length 184.89m. Landed at 184 mKB
 Circulated and condition mud for cement job. (Cement truck was delayed by being froze up)
 Conducted a Pre cement safety meeting with crew and cementing crew
 Rigged up to cement and cemented with 28 tonnes (21m³ 100% Express) Artic Set with 7.4%D71 + 5% Des + 5% B71
 Mixed 33 Kg Celophane in first 5 m³ of slurry. Displaced with 12.3 m³ of fresh water. 6 m³ of good cement returns.
 Floats did not hold. Pressure was maintain at 1800 kpa on casing and bled off in increments over 2 hours. Annulus slowly
 slowly receded out of sight in first 15 minutes of plug down.
 Waited on cement. (Tear out diverter (lines and hydril). Dig cellar)
 Weld on bowl

(FORMATIONS) Huma 147 mKB

SIGNED BY: Lee Brazel MOBILE No.: 403-282-9301



Ranger Oil Limited

DAILY DRILLING REPORT

WELL NAME: RANGER NOTA CREEK C-17 DATE: 97/12/30 REPORT NO.: 7
DEPTH: 164 mKB PROGRESS: 2 m FORMATION: Hume
OPERATIONS AT 06:00 HOURS: Run 339.7 mm casing
CONTRACTOR/RIG SUPT.: Shehlah Drilling Limited Tom Carriere CO. SUPERVISOR: Jack Brazel
DAILY COST: \$ 53,409.55 CUM. COST: \$ 1,171,237.00 AFE NO: E7D-029

WELL CONTROL

DAILY RIG CHECK: _____ DAILY BOP CHECK: _____ R.S.S.P.: _____ kPa @ _____ SPM
TRIP RECORDS: CALCULATED HOLE FILL _____ m3 ACTUAL HOLE FILL: _____ m3
BOP DRILLS: CONDUCTED WHILE _____ WELL SECURED IN _____ MIN.
CONDUCTED AT _____ HRS. CREW PERFORMANCE _____
DAYS SINCE BOP DRILL (EACH CREW): _____ MAXIMUM CASING HOLD BACK _____ 0 kPa

DRILLING PARAMETERS

BIT PERFORMANCE			MUD PROPERTIES			PUMPS		
BIT NUMBER	<u>8ARR4</u>		WEIGHT (kg/m3)	<u>1090</u>		No. 1 LINER (mm)	<u>162X216</u>	
SIZE (mm)	<u>444.5</u>		VISCOSITY (s/l)	<u>68</u>		No. 1 SPM	<u>129</u>	
TYPE	<u>PG3</u>		pH	<u>9.5</u>		No. 2 LINER (mm)	<u>162X216</u>	
SERIAL No.	<u>V008A</u>	<u>Drill</u>	PV (mPa S)	<u>18</u>		No. 2 SPM	<u>129</u>	
NOZZLES (mm)	<u>15.9</u>		YP (Pa)	<u>13.5</u>		VOLUME (m3/min.)	<u>3.05</u>	
DEPTH IN (m)	<u>98</u>	<u>162</u>	GELS (Pa)	<u>01-Feb</u>		PRESSURE (kPa)	<u>5000</u>	
METERS (m)	<u>45</u>	<u>2</u>	SAND (%)	<u>0.005</u>		D.P. ANN. VEL. (m/min.)	<u>17</u>	
HOURS	<u>16.6</u>	<u>1.5</u>	SOLIDS (%)	<u>0.08</u>		D.C. ANN. VEL. (m/min.)	<u>22</u>	
WOB (1000 Dyn)	<u>1 to 4</u>	<u>8</u>	FILTER CAKE (mm desc.)	<u>2</u>		D.C. ANN. VEL. (m/min.)	<u>26</u>	
R.P.M.	<u>160</u>	<u>180</u>	WATER LOSS (cc)	<u>10.8</u>		SOLIDS CONTROL		
CONDITION	<u>3-3-WT</u>		CHLORIDES (mg/l)	<u>260</u>		SHAKER SCREENS	<u>50X50</u>	
	<u>E-WT-A-I-TO</u>					PUMP OUT (m3/stk)	<u>0.01181</u>	

DRILLING ASSEMBLY

ITEMS	O.D.	I.D.	T.Y. TYPE
BIT	<u>444.5</u>	<u>84</u>	<u>168 Reg</u>
Bit Sub	<u>226</u>	<u>78</u>	<u>168 Reg</u>
Bit Sub	<u>226</u>	<u>78</u>	<u>127 H90</u>
Monel	<u>170</u>	<u>68</u>	<u>127 H90</u>
Jare	<u>170</u>	<u>70</u>	<u>127 H90</u>
9 Drill Collars	<u>165</u>	<u>58</u>	<u>127 H90</u>
XO	<u>168</u>	<u>68</u>	<u>127 H90</u>

BHA LENGTH 102 m
HOOK LOAD 26000 daN
AVAILABLE WOB 10000 daN
Joints DP. on Racks: 229
In String: 6
TOTAL 235

MUD ADDITIVES

Sacks	Product	Cost Per sack
	<u>Caustic</u>	<u>\$ 77.00</u>
<u>17</u>	<u>Bentonite</u>	<u>\$ 15.00</u>
	<u>Soda Ash</u>	<u>\$ 40.00</u>

O.F. (kg/m3)
U.F. (kg/m3)
VOL. (l/min.)
HOURS

D. SILT.	CENT.
	<u>1080</u>
	<u>1995</u>
	<u>400</u>
	<u>24</u>

SURVEYS

	DIRECTION
m	
m	
m	
m	<u>0.7</u>
m	<u>339</u>
m	<u>1.2</u>
m	<u>337</u>
m	<u>2.8</u>
m	<u>333</u>
m	<u>2</u>
m	<u>341</u>
m	<u>2.1</u>
m	<u>337</u>

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY	
DRILLING	<u>1.60</u>	CORING		RIG REPAIR		TODAY	CUM.
TRIPPING	<u>4.25</u>	LOGGING		LOST CIRC.		<u>1.5</u>	<u>47.75</u>
RIG SERVICE	<u>0.25</u>	TESTING		REAM & WASH	<u>0</u>		
SURVEY	<u>2.75</u>	CIRC. SAMPLE		WORK PIPE			
SLIP & CUT		HANDLE TOOLS		FISH			
COND. MUD	<u>1.00</u>	TRIP		TRIP			
NIPPLE UP/ON		REAM RATHOLE		Safety MTG	<u>0.50</u>		
RUN CASING	<u>2.00</u>	W.O.					
CEMENT							
HANDLE TOOLS	<u>3.75</u>						
				Total Hours	<u>24</u>		

Time 24 Hour Summary Time
Reamed 311 mm hole to 444.5 mm hole to a depth of 162 mKB.
Circulated and survey as required
Drilled 444.5 mm hole from 162 mKB to 164 mKB
Circulated hole clean and tripped out and changed out BHA
Tripped in a clean out trip with 170 mm monel and directional surveyed
Circulated hole clean and tripped out. Laid down BHA
Conducted a safety meeting with Rig crew and long hand
Rigged up to run casing and ran 339.7 mm casing

(FORMATIONS) Hume 147 mKB
(NOTE) Circulated for 15 minutes prior to making rat hole connections and surveys.

SIGNED BY: Lee Brazel MOBILE No.: 403-282-8301