

Ranger Oil Limited

DAILY DRILLING REPORT



WELL NAME:	RANGER NOTA CREEK C-17		DATE:	87/12/29	REPORT NO.:	6	
DEPTH:	162	mKB	PROGRESS:	10	m	FORMATION:	Myme
OPERATIONS AT 08:00 HOURS:	Open 311 mm surface hole to 444.5 mm						
CONTRACTOR/RIG SUPT.:	Shehtah Drilling Limited Tom Carriere			CO. SUPERVISOR:			Jack Brazel
DAILY COST:	\$	60,502.00	CUM. COST:	\$	1,117,828.00	AFE NO:	E7D-029

WELL CONTROL

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			MOD PROPERTIES		PUMPS	
BIT NUMBER	5A	BARR4	WEIGHT (kg/m3)	1090	No. 1 LINER (mm)	152X216
SIZE (mm)	311	444.5	VISCOSITY (cP)	80	No. 1 SPM	129
TYPE	J-2	PG3	pH	8.5	No. 2 LINER (mm)	162X216
SERIAL No.	B35CG	V00BA	PV (mPa S)	14	No. 2 SPM	129
NOZZLES (mm)	15.8	15.9	YP (Pa)	13.5	VOLUME (m3/min.)	3.05
DEPTH IN (m)	98	98	GELS (Pa)	1.5/9.5	PRESSURE (kPa)	4800
METERS (m)	66	45	SAND (%)		D.P. ANN. VEL. (m/min.)	17
HOURS	17.5	8.5	SOLIDS (%)		D.C. ANN. VEL. (m/min.)	22
WOB (1000 Dyn)	1 to 8	1 to 4	FILTER CAKE (mm desc.)	2	D.C. ANN. VEL. (m/min.)	28
R.P.M.	150	160	WATER LOSS (cc)		SOLIDS CONTROL	
CONDITION	2-2-wt		CHLORIDES (mg/l)	280	SHAKER SCREENS	50X50
	F.W.T. (BHA)				PUMP OUT (m3/stk)	0.01181

DRILLING ASSEMBLY

ITEMS	O.D.	I.D.	T.J. TYPE
BIT	444.5	84	188 Reg
Bit Sub	228	76	188 Reg
Shock Sub	228	76	188 Reg
(3) Drill Collars	228	76	188 Reg
Jars	228	76	188 Reg
(3) Drill Collars	228	76	188 Reg
Bell Sub	225	58	127 H60
(8) Drill Collars	185	58	127 H60
BHA LENGTH		121.5	m
HOOK LOAD		30000	daN
AVAILABLE WOB		22000	daN
Joints DP. on Racks:	234		
In String:	1		
TOTAL:	235		

MUD ADDITIVES

Bags	Product	Cost Per Bag
	Cauatic	\$ 77.00
8	Bentonite	\$ 15.00
	Soda Ash	\$ 40.00
Daily Mud Cost		\$ 120.00
Total Mud Cost		\$ 2,903.00

D. SILT.	CENT.
	1070
	1820
	450
	24

SURVEYS

158	m	1.9	
103	m	2.1	
122	m	2	
132	m	2.8	
	m		
	m		
	m		

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY		
DRILLING	4.25	CORING	_____	RIG REPAIR	_____	DRILL OP EVALUATION PROBLEMS TOTAL WEATHER TEMPERATURE ROADS	TODAY	CUM.
TRIPPING	5.25	LOGGING	_____	LOST CIRC.	_____		4.25	48.25
RIG SERVICE	0.25	TESTING	_____	REAM & WASH	6.5		_____	_____
SURVEY	1	CIRC. SAMPLE	_____	WORK PIPE	_____		_____	_____
SLIP & CUT	_____	HANDLE TOOLS	2	FISH	_____		_____	_____
COND. MUD	_____	TRIP	_____	TRIP	_____		Overcast	
NIPPLE UP/DN	_____	REAM RATHOLE	_____	Safety MTG	_____		-21 C	
RUN CASING	_____	_____	_____	Connection	1		Good	
CEMENT	_____	W.O. Fuel	0.75	_____	_____			
HANDLE TOOLS	_____	_____	_____	Circulate	1			
				Total Hours	24			

Time 24 Hour Summary Time

Worked on rig fuel supply problem.
Drilled 311 mm hole to 182 m KB.
Tripped for 444.5 mm bit.
Reamed 311 mm hole to 444.5 mm hole to a depth of 141 mKB.

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

(FORMATIONS) Hume 147 mKB

SIGNED BY: Jack Brazel

MOBILE No.: 403-282-9301



DAILY DRILLING REPORT

WELL NAME: RANGER NOTA CREEK C-17 DATE: 97/12/28 REPORT NO.: 5
 DEPTH: 152 mKB PROGRESS: 56 m FORMATION: Canol/Hare Indian
 OPERATIONS AT 06:00 HOURS: Working on rig fuel supply problem.
 CONTRACTOR/RIG SUPT.: Shehtah Drilling Limited Tom Carriera CO. SUPERVISOR: Jack Brazel
 DAILY COST: \$ 30,213.00 CUM. COST: \$ 1,190,440.00 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	4A	5A	WEIGHT (kg/m3)	1080	No. 1 LINER (mm)	152X218
SIZE (mm)	444.5	311	VISCOSITY (s/l)	60	No. 1 SPM	120
TYPE	PG3	J-2	pH	9	No. 2 LINER (mm)	152X218
SERIAL No.	V008A	B3SCG	PV (mPa S)	14	No. 2 SPM	120
NOZZLES (mm)	15.9	15.9	YP (Pa)	13	VOLUME (m3/min.)	2.8344
DEPTH IN (m)	28	96	GELS (Pa)	2.0/10	PRESSURE (kPa)	4500
METERS (m)	78	58	SAND (%)	0.4	D.P. ANN. VEL. (m/min.)	16
HOURS	13.25	16	SOLIDS (%)	4.8	D.C. ANN. VEL. (m/min.)	21
WOB (1000 Dan)	2 to 8	1 To 4	FILTER CAKE (mm desc.)	2	D.C. ANN. VEL. (m/min.)	73
R.P.M.	110	110	WATER LOSS (cc)	12.2	SOLIDS CONTROL	
CONDITION	2-2-WT		CHLORIDES (mg/l)	220	SHAKER SCREENS	50X50
	E-WT-I-BHA				PUMP OUT (m3/stk)	0.01181

DRILLING ASSEMBLY

ITEMS	O.D.	I.D.	T.J. TYPE	MUD ADDITIVES			D. SILT. CENT.	
BIT	444.5	84	188 Reg	Sacks	Product	Cost Per/sk	O.F. (kg/m3)	1080
Bit Sub	228	76	188 Reg		Caustic	\$ 77.00	U.F. (kg/m3)	1820
Shock Sub	228	76	188 Reg	45	Bentonite	\$ 15.00	VOL. (l/min.)	450
(3) Drill Collars	228	76	188 Reg	1	Soda Ash	\$ 40.00	HOURS	24
Jars	228	76	188 Reg					
(3) Drill Collars	228	76	188 Reg					
Bell Sub	225	58	127 H90				SURVEYS	
(6) Drill Collars	165	58	127 H90				103.5	m 2.2 °
BHA LENGTH	120.91	m					113	m 2.3 °
HOOK LOAD	26000	daN					122	m 1.6 °
AVAILABLE WOB	19500	daN					131	m 1.5 °
Joints DP. on Racks:	235						140	m 2 °
In String:	1						150	m 1 °
TOTAL:	234							m °
			Time Break Down	Daily Mud Cost	\$ 715.00			
				Total Mud Cost	\$ 2,783.00			

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY	
DRILLING	16	CORING		RIG REPAIR		TODAY	CUM.
TRIPPING	3.5	LOGGING		LOST CIRC.			26
RIG SERVICE	0.5	TESTING		REAM & WASH		DRILL OP	
SURVEY	1.25	CIRC. SAMPLE		WORK PIPE		EVALUATION	
SLIP & CUT		HANDLE TOOLS		FISH		PROBLEMS	
COND. MUD		TRIP		TRIP		TOTAL	
NIPPLE UP/DN		REAM RATHOLE		Safety MTG		WEATHER	Snow
RUN CASING				Connection	0.75	TEMPERATURE	-23 C
CEMENT		W.O. Fuel	0.75	Circulate	1.25	ROADS	Good
HANDLE TOOLS				Total Hours	24		

Time 24 Hour Summary Time
 (NOTE) Problems with survey, drift was out to 2.1 degrees at 94 mKB.
 Tripped for 311 mm bit.
 Fanned hole from 96 mKB to 114 mKB, 1000 to 2000 Dan, RPM 110.
 (NOTE) Problems getting more RPM out drawwork, reassigned SCR lost pump strokes but gained 40 RPM.
 Fanned hole from 114 mKB to 124 mKB, 1000 to 2000 Dan, RPM 150.
 Fanned hole from 124 mKB to 143 mKB, 3000 to 4000 Dan, RPM 150.
 Fanned hole from 143 mKB to 151 mKB, 1000 to 2000 Dan, RPM 150.

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

(FORMATIONS) Canol/Hare Indian, 45 mKB
 HUME, 147 mKB

SIGNED BY: Jack Brazel

MOBILE No.: 403-282-9301



DAILY DRILLING REPORT

WELL NAME: RANGER NOTA CREEK C-17 DATE: 97/12/27 REPORT NO.: 4
 DEPTH: 98 mKB PROGRESS: 68.5 m FORMATION: Imperial
 OPERATIONS AT 06:00 HOURS: Tripping for 311 mm bit.
 CONTRACTOR/RIG SUPT.: Shehtah Drilling Limited Tom Carriere CO. SUPERVISOR: Jack Brazel
 DAILY COST: \$ 23,328.00 CUM. COST: \$ 1,160,227.00 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	3ARR	4A	WEIGHT (kg/m3)	1085		No. 1 LINER (mm)	152X218	
SIZE (mm)	444.5	444.5	VISCOSITY (s/l)	49		No. 1 SPM	130	
TYPE	13 J	PG3	pH	9.5		No. 2 LINER (mm)	152X216	
SERIAL No.	808825	V00BA	PV (mPa S)	11		No. 2 SPM	130	
NOZZLES (mm)	15.9	15.9	YP (Pa)	8		VOLUME (m3/min.)	3.0706	
DEPTH IN (m)	12.63	28	GELS (Pa)	1.5/14		PRESSURE (kPa)	4500	
METERS (m)	15.37	78	SAND (%)	0.005		D.P. ANN. VEL. (m/min.)		
HOURS	11.5	31.25	SOLIDS (%)	0.05		D.C. ANN. VEL. (m/min.)	23	
WOB (1000 Dan)	2 to 5	2 to 8	FILTER CAKE (mm desc.)	2		D.C. ANN. VEL. (m/min.)	27	
R.P.M.	110	110	WATER LOSS (cc)	12		SOLIDS CONTROL		
CONDITION	4-3-BT		CHLORIDES (mg/l)	250		SHAKER SCREENS	50X50	
	6-WT-1-PR					PUMP OUT (m3/stk)	0.01181	

DRILLING ASSEMBLY

ITEMS	O.D.	I.D.	Y.J. TYPE	MUD ADDITIVES				D. SILT.	CENT.
BIT	444.5	84	168 Reg	Sacks	Product	Cost Per/sk	O.F. (kg/m3)		1080
Bit Sub	228	76	168 Reg	1	Caustic	\$ 77.00	U.F. (kg/m3)		1820
Shock Sub	228	76	168 Reg	18	Bentonite	\$ 15.00	VOL. (l/min.)		450
Jars	228	76	168 Reg		Soda Ash	\$ 40.00	HOURS		6
(6) Drill Collars	228	76	168 Reg						
Bell Sub	225	58	127 H90						
(3) Drill Collars	165	60	127 H90						
Change Over	168	58	127 XH						
BHA LENGTH	93.25		m						
HOOK LOAD	20000		daN						
AVAILABLE WOB	16000		daN						
Joints DP. on Racks:	235								
In String:									
TOTAL:	235								
				Time Break Down					
				Daily Mud Cost		\$ 347.00			
				Total Mud Cost		\$ 2,068.00			

DRILLING OPERATIONS		EVALUATION		PROBLEMS		SUMMARY	
DRILLING	13.75	CORING		RIG REPAIR		DRILL OP	TODAY
TRIPPING	4	LOGGING		LOST CIRC.		EVALUATION	13.75
RIG SERVICE	0.25	TESTING		REAM & WASH		PROBLEMS	CUM.
SURVEY	2	CIRC. SAMPLE		WORK PIPE		TOTAL	28
SLIP & CUT		HANDLE TOOLS		FISH		WEATHER	Clear
COND. MUD		TRIP		TRIP		TEMPERATURE	-30 C
NIPPLE UP/DN		REAM RATHOLE		Safety MTG		ROADS	Good
RUN CASING				Connection	2.25		
CEMENT				Circulate	1.75		
HANDLE TOOLS				Total Hours	24		

Time 24 Hour Summary Time
 Drilled 444.5 mm to 28 mKB.
 Tripped for bit no. 3A. MAX-PG3
 Drilled 444.5 mm and survey to a depth of 86 mKB, W.O.B 8000 to 9000 Dan, 110 RPM.
 Fanned and drilled 444.5 mm hole to 98 mKB, W.O.B 4000 Dan, 110 RPM.
 (NOTE) Problems with survey, drift was out to 2.1 degrees at 94 mKB.
 Tripped for 311 mm bit.

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

SIGNED BY: Jack BrazelMOBILE No: 403-282-8301

