No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek		C-17-65-10-12G.		980217 Yr. Mo. Day

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shehtah Drilling Ltd.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: D. Barandell

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	National	8P80	216
						2	National	8P80	216

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial ____
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial ____
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	177.8	161.6	Algoma	34.2	S005	137	1931	5.1	1929

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
				Fuel @ 600 3152								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 hrs. #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000			1	Unspool Drilling line off of Drum, Unbridal. Clean out Pump House, chip ice from sub matting. Clean out mud role, mud guns, clean Tanks. Remove Mud Pump suction lines, Break off, discharge pump lines, Unhook Hydrolic system, Rig out Hydromatic, mud tank electrical. Sub panel. Work on electrical cords. Rig out air. Tear out Sub floor Tarps
	0700	7.00		
0700	0715	.25	7	SERVICE RIG
0715			1	REMOVE DRILLING LINE from DERRICK, COIL LINES UP
	1200	4.75	1	TEAR OUT BOILERS, GEN. SHACKS, PUMP HOUSES + LOAD OUT

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	11.7	12
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.25	
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ / /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ / /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/ /		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: Inspect Brakes, linkages. Inspector's done hook and bridle. Visually inspected Bridal line, and eyes, pins, shives.

DRILLER: Brian Eck

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ / /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ / /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/ /		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER: Mark Gerwen

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200				STEAM CLEAN BUILDINGS + SKIDS, LAY OVER A LEGS
				RACK DERRICK + PREPARE FOR MOVE, LOWER DOG HOUSE
	2400	12	1	TEAR OUT + STEAM CLEAN MATTING

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek		C-17-65-10-12G		98 02 16 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shektah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Nick Dawson

DP SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ X/H	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	11.75	11.75
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa*s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS RUN			
	STANDS D P	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS Check Brakes, Linkages, Crown Saver. Visually inspect Blocks, hook + Bridal lines.

Safety Topic. Laying down Rig Parts.

DRILLER Brian Lick

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa*s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS SAFETY MEETING HELD W/CREW REGARDING TEAR OUTS. FT. CROWN SAVER WHILE BRIDALING-UP

Inspected mud and found. temp - 20c

DRILLER Mark Stanton

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial [illegible]	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial [illegible]
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial [illegible]

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	177.8	161.6	Algoma	34.25	J55	137	1931	5.1	1929

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 6269

CUMULATIVE MEGAJOULES 92780

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
				Fuel 0 0600 6305 L	REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000			1	Tear out Rig. Strip Invert, + Clean Tanks
	0700	7.00	1	Load up loads on Pallets. Clean up Rig.
0700	0715	.25	7	Rig SERVICE
0715			1	WASH OUT SUB + PUMP HOUSE, LOAD OUT GARBAGE
			1	BRIDAL-UP + LOWER FOR INSPECTION
	1200	4.75	1	MAKE-UP SEA CANS + PACK MUD ADDITIVES

BOILER HOURS 12 HRS #1

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200			1	TEAR OUT + CLEAN FLOW LINE, FINISH WASHING SUB + PUMP HO
				CLEAN PRE-MIX TANK + TEAR OUT CORDS + HOSES.
				TEAR OUT PASON PENLESS RECORDER + AUTO DIGGER HOSES
				TAG HYDROLIC LINES, BLOW + TEAR OUT SHOCK HOSES
				CLEAN + PUT CELLER PUMPS AWAY, TEAR OUT ACCUMULATOR LIN
				STRIP INVERT + CLEAN MUD TANKS, LAY OUT KELLY SOCK
	1700	5.00		GREASE CROWN, A LEG SHIVES, CENTER SHIVES, BRIDAL LINE SHIVES
1700	1715	.25	7	RIG SERVICE
1715			1	TEAR OUT CENTERFUGE, SPLIT PUMPS, TEAR OUT PUMP SUCTIONS
	2400	~~5.12~~		PREPARE TO + LAY DERRICK OVER, + Lay over. clean Tank
				work on Monkey Boards, + Tarps. Clean Pump house

BOILER HOURS 12 HRS #1

FORM 2T6m

APPROVAL PENDING

CAODC

APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek		C-17-65-10-12G.		980215

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shehtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	[illegible]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	11.75	11.75
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD	54	
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: Check Brakes, Linkages, Crown Saver.

Safety Topic - Tag line on loads.

DRILLER: Brian [illegible]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER: Mark Grayson

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial DR
(2) Detailed Inspection Weekly (using check list)	Initial ____	Initial ____
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	177.8	161.6	Algoma	34.25	00555	137	1931	5.1	1929

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT	6269
CUMULATIVE MEGAJOULES	92780

METRES DRILLED FROM	TO	DR. D RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
				6m³ Storage Tank .31 m								
				Fuel 6878	REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	0015	.25	7	Rig Service, (BOP's out No Bop Function test)
0015			1	Tear out Rig, ~~Bee~~ Front end, Pipe Racks, Lay out
			1	Kelly, Swivel. Rig out floor, prepare subs for
			1	inspection. work on stripping mud. General clean
			1	up. Spool on Drilling line to lay out kelly. Lay out V DOOR,
	12:00	11.75	1	Remove Catwalk. Rig out Tarps

BOILER HOURS: 12 hrs. #1

METRES DRILLED FROM	TO	DR. D RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	6		1	TEAR OUT Pre-FAB TARPS, STRIP INVERT + CLEAN TANKS,
	1900	7		TEAR OUT Rig, GENERAL CLEAN-UP
19:00	1915	.25	7	Rig Service
19:15	2400	4.75	1	Tear out Rig. Strip Invert + Clean Tanks.
				General Clean up.

BOILER HOURS: 12 hrs. #1

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek		C-17-65-10-126		98 02 14

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shektah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
L.B.P.	Doug Cloutie

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS		
CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1 RIG UP AND TEAR DOWN	4.50	12
2 DRILL ACTUAL		
3 REAMING		
4 CORING		
5 CONDITION MUD & CIRCULATE	2.75	
6 TRIPS		
7 LUBRICATE RIG		
8 REPAIR RIG		
9 CUT OFF DRILLING LINE		
10 DEVIATION SURVEY		
11 WIRE LINE LOGS		
12 RUN CASING & CEMENT	4.50	
13 WAIT ON CEMENT		
14 NIPPLE UP B.O.P.		
15 TEST B.O.P.		
16 DRILL STEM TEST		
17 PLUG BACK		
18 SQUEEZE CEMENT		
19 FISHING		
20 DIR. WORK		
21 safety meet	.25	
22		
23		
COMPLETION A PERF'R'T'N		
B TBG TRIPS		
C TREATING		
D SWABBING		
E TESTING		
F ADDIT'N'L		
G		
TOTALS	12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)	
HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	53
No. OF DAYS FROM SPUD	53
CUMULATIVE ROTATING HRS	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	0000
			SIZE		DENSITY kg/m³	1230
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	86
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/ /		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS Check Brakes, Lickeys, Crown Saver, Choke manifold! BOP's, HCR, Kill valves, Accumulator, Ft. Remote choke.

Safety Topic. Run Csg + Cement.

DRILLER Brian Cook

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/ /		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER Mark Grogan

LEGEND All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial DR
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	177.8 ~~244.5~~	161.6 ~~#~~	Algoma	34.2	50055	137	1931	5.1	1929

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT	6269
CUMULATIVE MEGAJOULES	92780

METRES DRILLED FROM	TO	DR. D RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL P COM'D C
				Fucl @ 600 6018	CSG		3500	152	60			climo
					REDUCED PUMP SPEED		2300	152	30			climo

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0215	2.25	5	circ Csg. 1
0215	0230	.25	21	Pre Cement Safety meeting with Dowell Rig Crew Tool Ha
0230	0300	.50	5	circ Csg.
0300	0700	4.00	12	Rig in Cementers, to cement Csg. + Cement Csg.
0700	0730	.50	12	TEAR OUT CEMENTERS
0730			1	FLUSH BOP, TEAR OUT HCR + Kill LINE VALVES, FLOW-T + LINE
	1200	4.50	1	SWEEP LINE, CHANGE OUT csg. RAMS + INSTALL PIPE RAMS

BOILER HOURS 12 HRS #1

L.B.P.

STAGE No 1 15.5 TONNES LEAD CEMENT "G" 1-1-2 with 18% D44, .1% B71 (15m³ 20% EXCESS) ESTIMATED Top 850m

TAIL CEMENT 3.5 TONNES RFC 1%B30, .3%B71, .2%D46 (3m³ 20% EXCESS) ESTIMATED TOP 1750m

STAGE NO 2 6.7 TONNES RFC with 1%B30, 3%B71, 2%D46 (6.1m³ 20% EXCESS)

DISPLACED with 8.3m³ FRESH WATER. .5m³ Good CEMENT RETURNS

METRES DRILLED FROM	TO	DR. D RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL P COM'D C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200			1	WASH OUT CELLER + BOP, SET Csg. SLIPS, CUT Csg.
	2000	8	01	LAY DOWN BOPS. SET 43M Dec. In Csg. SLIPS
2000	2400	4	1	TEAR OUT + WASH DOWN RIG

BOILER HOURS 12 HRS #1

L.B.P.

Rig Re Leased At 2400 Hrs Feb-14-1998

Moved 1-Load Drill Pipe To New Location
Load-1-Load D.P. - B.O.P.s

FORM 2T6m APPROVAL PENDING

CAODC APPROVED Revised December 1986
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OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek		C-17-65-10-12G		98 02 13

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shektah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Doug Quake

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		4.50
6	TRIPS		
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT	2.50	7.25
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Work on Csg	9.00	
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK	24	
No. OF DAYS FROM SPUD	52	
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

FIRST TOUR

REMARKS Check Brakes, Linkages, Crown Saver, BOPS, Hoses, Choke Manifold, Accumulator, HCR, Fill Valves, All Gauges, Fill Remote choke
Shaker #1-3x50 #2-3x50

DRILLER [signature]

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME		22.00	
DENSITY kg/m³		1230	
PRESSURE GRADIENT			
VISCOSITY		90	
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

SECOND TOUR

REMARKS SAFETY MEETING HELD W/ ENGINEER, TOOLPUSH, TONGMAN + DRILL CREW PRIOR TO RUNNING CSG.
√ ACCUMULATOR GAUGES, MAN. SHACK VALVES, HCR + KILL LINE VALVES. VISUALLY INSPECT BRAKE LINKAGE

DRILLER [signature]

LEGEND All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial OR
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial —
(3) H_2S Signs Posted (if required)	Initial	Initial NM

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 6191
CUMULATIVE MEGAJOULES 92702

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT
	244.5	226	Prop	53.3	K55	45	590.4	5.03	5.89

METRES DRILLED

FROM	TO	DR. D RM R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
				Fuel @ 600-7738								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00.00	00.15	.25	7	Rig Serv. Ft Blind Rams close 7 sec.
00.15				Work on Csg. Clean BOP's, Change Pipe Rams
	09.15	9.00	21	to Csg Rams, Take protectors off csg. Drift + Strap
09.15	09.30	.25	7	RIG SERVICE FT. REMOTE CHOKE (DRILLERS WALK AROUND)
09.30	12.00	2.50	12	RIG TO + RUN CSG. (SAFETY MEETING HELD)
				(MAKE-UP SHOE, FLOAT COLLOR, ECP)

METRES DRILLED

FROM	TO	DR. D RM R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
				Shaker #1-3x50 #2-3x50	CSG		3500	152	60			chimo
					REDUCED PUMP SPEED		2300	152	30			chimo

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	12.30	.50	12	RUN CSG. - Pre-JOB MEETING HELD
12.30	12.45	.25	7	SERVICE RIG
12.45	17.30	4.75	12	RUN CSG. (110 JOINTS)
17.30	18.00	.50	5	BREAK CIRCULATION + CIRCULATE HOLE
18.00	18.15	.25	12	MAKE-UP STAGE COLLOR
18.15	20.00	1.75	12	Run Csg (27 Joints)
20.00	24.00	4.0	5	Make up Circ. equipment + Circ + Nvert + Centrifuge

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota creek		C-17-65-10-12G		98 2 12 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger oil LTd	Shethah Drilling LTd	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	[illegible]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	272	1	National	8P80	216
						2	National	8P80	216

LEGAL LAND DESCRIPTION	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT
LAST CASING TUBING OR LINER	244.5	226	ProP	53.3	H55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	3	

METRES CUT OFF: | PRESENT LENGTH:

MEGAJOULES SINCE LAST CUT: ~~3406~~ 5093

CUMULATIVE MEGAJOULES: ~~84776~~ 91603

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	3.00	
6	TRIPS	8.50	9.5
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Safety meet.		.25
22	Break down kelly		2.25
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.25	m
	B/S w/ FLOAT	.85	
1	STB RMR ONEL OD	9.05	m
2	D.C. ID DL 171 OD	19.00	m
	STB RMR ES OD	4.80	m
6	D.C. ID 171 OD	57.00	m
	STB RMR 10 OD	.50	m
6	HWDP	55.18	
	BHA	146.63	
63	STANDS DP	1774.70	m
1	SINGLES DP	9.30	m
	KELLY DOWN	3.37	m
	TOTAL	1934.00	
	(FORCE) WT. OF STRING	62,000	daN

BIT RECORD

BIT No.	8
SIZE	222
MFG	H.W
TYPE	ATJ55RG
JETS mm	—
SER. No.	C8945
DEPTH OUT	
DEPTH IN	1953
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME		1100
DENSITY kg/m³		1245
PRESSURE GRADIENT		
VISCOSITY		86
PV mPa•s / YP Pa	/	/
GEL STR. Pa	/	/
WATER LOSS cm³		
pH		
SOLIDS %		

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Barite	20 sks		
Sawdust	15 sks		
Barite	25 sx		

REMARKS: Hole Fill on Trip out 7.83. Cumulative volume measured 6.92. Calculated .91 difference
check Brakes, Linkages, Crown Saver, BOP's, Accumulator
Man. Gold choke, HCR, kill valves, all guages.
Safety topic, Tripping Pipe.

DRILLER: Brian Lech

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	/
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: MACP 3496 kPa ✓ CROWN SAVER, ACCUMULATOR
GAUGES, BOPS, FT. REMOTE CHOKE, ✓ MAN. SHACK VALVES, HCR
KILL LINE VALVES.
SAFETY MEETING PRIOR TO LAYING DOWN DRILL STRING.
FLOW ✓ AS REQUIRED BY NEB.

DRILLER: [illegible]

SECOND TOUR

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial DR
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial —
(3) H_2S Signs Posted (if required)	Initial ____	Initial NA

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial DR
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ✓
(3) Mast Inspected Before Raising or Lowering	Initial MN

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
1953 TD				9171 Fuel at 6:00				152		152		
				Storage 1.85 m								
					REDUCED PUMP SPEED			152				

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	02:30	2.5	6	Continue to P.O.O.H w/ D.P.
02:30	02:45	.25	7	Rig serv. Ft Blind Rams close 7 sec (Drillers walk around)
02:45	08:15	5.50	6	Prepare to R.I.H. w/ Bit for clean out Trip. + R.I.H.
08:15	08:30	.25	7	RIG SERVICE - FT. HCR (DRILLERS WALK AROUND)
08:30	11:30	3.00	5	CIRC. + CONDITION MUD + HOLE
11:30	12:00	.50	6	LAY DOWN DRILL STRING (Pre-JOB SAFETY MEETING) PUMP PILL.

BOILER HOURS: 12 HRS #1

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
1953 TD				Shaker #1 3x50				152		152		
				Shaker #2 3x50								
					REDUCED PUMP SPEED			152				

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
Trip out of hole calculated volume = 8.49								
Measured volume = 9.68								

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:00	1.00	6	LAY DOWN DRILL STRING
13:00	13:15	.25	7	SERVICE RIG FT. PIPE RAMS
13:15	19:00	5.75	6	LAY DOWN DRILL STRING (DRILLERS WALK AROUND)
19:00	19:15	.25	21	Pre Laying down DP. + BHA. Safety meeting.
19:15	21:15	2	22	~~Lay down~~ Break Down all kelly parts, HAVE TO Remove + make up Kelly Spin
21:15	24:00	2.75	6	Lay down Rest of D.P. HWDP. + D.C. + BHA

BOILER HOURS: 12 HRS #1

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek		C-17-65-10-12 G		98 2 11

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shektah Drilling Ltd.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
L.B.P.	Doug Roache

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ xH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		3.50
6	TRIPS	2.75	6.50
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS	6.75	
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	WAIT ON ORDERS	2.00	
22	Safety meet		.25
23	Calcium Plug		1.5
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD: 50

CUMULATIVE ROTATING HRS: 538.25

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS ✓ Brakes, Linkages, Crown Saver, BOP'S, + Hoses, HCR. KILL VALVES, ACCUMULATOR, MANIFOLD SHACK, All GAUGES MACP. 3554 w/ 1230 DEN. SAFETY TOPIC. TRANSFERING OF FUELS. Shaker Screens #1-3X50 #2 3X50

DRILLER Brian Eccles

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	m	BIT No.		TIME	1800	1900
			SIZE		DENSITY kg/m³	1260	1240
	STB RMR OD	m	MFG.		PRESSURE GRADIENT		
	D.C. ID OD	m	TYPE		VISCOSITY	79	80
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³		
	OPEN ENDED		DEPTH IN		pH		
			TOTAL METRES DRILLED		SOLIDS %		
6	HWDP	55.18	TOTAL HRS. RUN				
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
	SINGLES DP	1869.88m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg		
	KELLY DOWN	m	PRESSURE DROP kPa				
	TOTAL	1925.06					
	(FORCE) WT. OF STRING	daN					

REMARKS ✓ ACCUMULATOR GAUGES, MAN. SHACK VALVES, KILL LINE, HCR LING VALVES, ✓ CROWN SAVER, ✓ BRAKE LINKAGE. HELD BOP DRILL W/CREW WHILE RIH * MACP = 3554 KPA

DRILLER Mark Gagnon

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial 0	Initial DR
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial N/A

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	PROD	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 3406

CUMULATIVE MEGAJOULES: 89916

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	STROKES per min	PUMP No. 2 LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1953	TD			Fuel @ 06:00 12610				152		152		chimo
					REDUCED PUMP SPEED							chimo

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7*	RIG SERVICE Function TEST BLIND RAMS (6 sec)
00:15			11	LOG with Schlumberger (CNL-LDT) #2 LOG.
	07:00	6.75	11	TEAR OUT LOGGERS
07:00	07:15	.25	7	RIG SERVICE FT. BLIND RAMS (DRILLERS WALK AROUND)
07:15	09:00	1.75	6	RIH 1 MONEL + 4 STD'S D.C'S (LAY DOWN 10 SINGLE D.C'S)
09:00	11:00	2.00	21	WAIT ON ORDERS + DRESS CASING MEASURE D.P
11:00	12:00	1.00	6	RIH 2 STD'S HWDP + PICK-UP 19 SINGLES D.P (OPEN ENDED)

BOILER HOURS 12 hrs #1

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1953	TD			Shaker #1 3X50 #2 3X50								
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	Safety meeting Prior to Pump Calcium Carbonate Plug with Cementers + Drill Crew L.B.								

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:45	.75	6	Pick-up 19 singles D.P + RIH 60 STD'S - OPEN ENDED
12:45	13:00	.25	7	SERVICE RIG. FT. PIPE RAMS (DRILLERS WALK AROUND)
13:00	16:30	3.50	6	RIH OPEN ENDED 60 STDS D.P
16:30	20:00	3.5	5	CIRC. + COND HOLE + MUD
20:00	20:45	.75	23	RIG TO SPOT 2.5 Calcium Carbonate 20m Plug
20:45	21:00	.25	22	Conducted a Pre cementing Plug Safety meeting
21:00	21:45	.75	23	Spot Calcium Carbonate Plug 1934-1953m KB
21:45	24:00	2.25	6	Trip out To Run Cleanout Trip Pull 6 STDS + Pump 20 SAC Pill. Trip out DRLG Pipe

BOILER HOURS 12 HRS #1

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK	C-17	C-17-65-10-12G		98 02 10

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SHEHTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	Doug Cloutie

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.
114	24.7	E	156	4½ XH	232

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NATIONAL	8P80	216
2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	11.75	1.25
6	TRIPS		9.25
7	LUBRICATE RIG	.25	
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS	~~5~~	3.5
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A PERF'R'T'N		
	B TBG TRIPS		
	C TREATING		
	D SWABBING		
	E TESTING		
	F ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)	
HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	49
CUMULATIVE ROTATING HRS.	538.25
TOTAL MUD COST	

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		.25 m
1	B/S W FLOAT		.85
1	STB RMR	55 OD	2.88 m
1	D.C. ID MONEL	OD	9.05 m
5	STB RMR	171 OD	46.66 m
1	D.C. ID JARS	OD	4.80 m
13	STB RMR	171 OD	120.80 m
1	X/O		.50
6	HWDP		55.18
	BHA		240.97
60	STANDS D.P		1691.83 m
1	SINGLES DP		9.23 m
	KELLY DOWN		10.97 m
	TOTAL		1953 m
	(FORCE) WT. OF STRING		80.000 daN

BIT RECORD

BIT No.	7
SIZE	222
MFG.	H.W.
TYPE	ATJ5SRG
JETS mm	3x12.4
SER. No.	C89YJ
DEPTH OUT	
DEPTH IN	1906
TOTAL METRES DRILLED	47
TOTAL HRS. RUN	41
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	/ /
PRESSURE DROP kPa	

MUD RECORD

TIME	0000	0500	09:00
DENSITY kg/m³	1240	1235	1240
PRESSURE GRADIENT			
VISCOSITY	68	78	80
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
BARITE	79sx	HYD LIME	10sx
BORE JACKET-F	18sx	Diesel	Approx. 3 3.5m
ENVIRO TONE	36sx	omv	2sx
HOT TIME	7sx		

REMARKS – ✓ BRAKES + LINKAGE, ✓ CROWN SAVER, MANIFOLD VLVS + GAUGES, HCR + KILL VALVES, B.O.P HOSES, ACCUM. FT. Remote Choke (SHAVER SCREENS - #1-3x50 #2-3x50)

SAFETY TOPIC - Picking Up Kelly + Pop Valves DRILLER [illegible]

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	
MFG.	
TYPE	
JETS mm	
SER. No.	
DEPTH OUT	
DEPTH IN	
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	/ /
PRESSURE DROP kPa	

MUD RECORD

TIME	1300		
DENSITY kg/m³	12.30		
PRESSURE GRADIENT			
VISCOSITY	82		
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Bore Jacket-F	4sks		
Barite	20sks		

REMARKS FLOW ✓ AS REQUIRED BY NEB. * MACP-3496 KPA
✓ CROWN SAVER, ✓ MAN. VALVES + GAUGES.
FT. BLIND RAMS WHILE OUT OF HOLE
TALLY 1953.00m DIFF. 2.08m * BOP DRILL WHILE TRIPPING
STRAP 1955.08m DRILLER [illegible]

SECOND TOUR

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial DR
(2) Detailed Inspection Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial N/A

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial DR
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	PROD	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 2122
CUMULATIVE MEGAJOULES 88633

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
1953 TD				FUEL @ 06:00 - 8597 LTS.	8	Ø	3800	152	70			chimo
										152		
					REDUCED PUMP SPEED		1500	152	35			chimo

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 HRS - #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	06:00	6	5	CIRC. + COND. INVERT
06:00	07:00	1	5	cont. CIRC. + COND. INVERT
07:00	07:15	.25	7	Rig Serv. (Ft. Pipe Rams Close 6 sec) Drillers walk around
07:15	12:00	4.75	5	Circ + cond. Invert. W/ Flow ✓
~~12:15~~				~~POOH~~ ~~W/ Flow~~ ✓

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
1953 TD				Shaker Screens #1-3x50 #2-3x50								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 hrs. - #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:15	1.25	5	~~POOH~~ Circ + cond Invert
13:15	20^{30}	7.25	6	POOH TO LOG (STRAP OUT) LAY DOWN 1 SINGLE DP, JARS, S.S.
20^{30}	24:00	3.5	11	RIG TO + LOG w/ Schlumberger (TAGGED BTM. @ 1948.9m)
				LOG #1 ~~PHASOR INDUCTION~~ DISFL - BHCS
				SAFETY MEETING WITH MARK GRAYSON CREW
				Plan - Tear Out - Rig Move

FORM 2T6m APPROVAL PENDING APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		98 02 09

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SIKEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	[illegible]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

LEGEND — All lengths expressed in metres to two decimal places.

Metric expressions:
- mud density = kilogram per cubic metre (kg/m³)
- pump stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = second per litre (s/L)
- flow rate = cubic metre per minute (m³/min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT
	244.5	226	PRUD	53.3	K-55	45	580.9	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 1092

CUMULATIVE MEGAJOULES: 87602

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	7	
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	1.75	11.75
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Prepare to mix	1.75	
22	Spot pill	1.25	
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	48
CUMULATIVE ROTATING HRS	538.25
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/FLOAT	.85
1	STB RMR SS OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 OD	46.66 m
1	D.C. ID JARS OD	4.80 m
13	STB RMR 171 OD	120.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	240.97
60	STANDS DP	1691.83 m
1	SINGLES DP	9.23 m
	KELLY DOWN	10.97 m
	TOTAL	1953 m
	(FORCE) WT. OF STRING	80000 daN

BIT RECORD			
BIT No.	7		
SIZE	222		
MFG.	HW		
TYPE	ATJ55RG		
JETS mm	3×12.4		
SER. No.	C8943		
DEPTH OUT			
DEPTH IN	1906		
TOTAL METRES DRILLED	47		
TOTAL HRS. RUN	41		
COND. 1/8's T/B/GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD			
TIME	0300	0500	1030
DENSITY kg/m³	1225	1228	1200
PRESSURE GRADIENT			
VISCOSITY	72	70	63
PV mPa•s / YP Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
Barite	5 sx	Mica C	14 sx
Hot Lime	30 sx	Diesel	7.5 m³
circ. Plug	15 sx	H_2O	2 m³
		chem I	60 L
Mica F	29 sx	Chem II	60 L

REMARKS: ✓BRAKES, LINKAGE, CROWN SAVER, MAN. VALVES + GAUGES
HCR + KILL VALVES, BOP HOSES, ACCUMULATOR, FT REMOTE CHOKE

SHAKER SCREENS #1 - 3x50, #2 - 3x50, SUCTION SCREENS REMOVED
*SAFETY TOPIC - MIXING CHEMICALS DRILLER [illegible]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/FLOAT	.85
1	STB RMR SS OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 OD	46.66 m
1	D.C. ID JARS OD	4.80 m
13	STB RMR 171 OD	120.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	240.97
60	STANDS DP	1691.83 m
1	SINGLES DP	9.23 m
	KELLY DOWN	10.97 m
	TOTAL	1953 m
	(FORCE) WT. OF STRING	80,000 daN

BIT RECORD			
BIT No.	7		
SIZE	222		
MFG.	HW		
TYPE	ATJ55RG		
JETS mm	3×12.4		
SER. No.	C8943		
DEPTH OUT	OB		
DEPTH IN	1906		
TOTAL METRES DRILLED	47		
TOTAL HRS. RUN	41		
COND. 1/8's T/B/GAGE			
FLOW RATE m³/min			
PRESSURE DROP kPa			

MUD RECORD			
TIME	1300	1600	2300
DENSITY kg/m³	1190	1200	1240
PRESSURE GRADIENT			
VISCOSITY	66	80	66
PV mPa•s / YP Pa	DIESEL & H_2O off @ 1300		
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
Cellophane	10 sx	mica course	13 sxs
Hot Lime	24 sxs	Barite	190 sx
100 OMV	27 sxs	Circulation Plus	5 sxs
mica fine	42 sxs	Bore Jacket	18 sxs
		Diesel	12.9 m³
		chem I	1 bbl
		chem 2	1 bbl

REMARKS: check, Brakes, Linkages, crown Saver
BOP's, killline HCR valves, Man. Shack.
Accumulator, BOP Hoses, All guages, *MACP 3554 kPa w/ 1230 kg/m³ MUD
Ft. Remote choke (SHAKER SCREENS #1-3x50, #2-3x50)
*Safety Topic, Mixing Chemicals DRILLER [illegible]

H_2O - 2.3 m³
Versawet .5 bbl

METRES DRILLED / FORMATION

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR'EL P. COM'D. C
1944	1953	9	TD	FUEL @ 0600 1117.7 275	40	19/20	8000	152	110	152		
				NORMIX HOPPER						152	90	
					REDUCED PUMP SPEED		2750	152	55			SHIMO REMOTE

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00			21	SPOT PILL LCM @ 1944 - 1865m, wait 15 min. & moved
	01:15	1.25		plug .5m³, wait ½ HR, NO PROP IN ANNULUS
01:15	02:30	1.25	2	DRILL 222 mm HOLE (FR 1944 - 1945m)
02:30	02:45	.25	7	RIG SERV. (FT PIPE RAMS CLOSE 6 SEC) DRILLER WALKAROUND
02:45	06:00	3.25	2	DRILL 222 mm HOLE (FR 1945 - 1949 m)
06:00	08:30	2.50	2	DRILL 222 mm HOLE (FR. 1949 - 1953 TD)
08:30	08:45	.25	5	Circ + cond Invert. + LCM - ADD
08:45	1030	1.75	21	Fix Suctions + Prepare mixing materials
1030	12:00	1.50	5	Circ + cond Invert + Add LCM.

METRES DRILLED / FORMATION

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR'EL P. COM'D. C
1953	TD			Shaker #1 - 3x50		Circ	3600	152	70			chimo
				#2 - 3x50								
					REDUCED PUMP SPEED		1400	152	35			chimo

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1500	3	5	Circ + cond Invert + Add LCM.
1500	1515	.25	7	Rig serv. ft Annular Close 11 sec, HCR - 4 sec Drillers walk around.
1515	24:00	8.75	5	Circ + cond Invert - LCM + Barite

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		98 02 08

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	Dale Lazarduff

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	11.5	10.0
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	CLEAN SUCTION SCREENS	.25	
22	FLOW ✓		.25
23	MIX LCM PILL		~~.75~~ 1.50
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD	47
CUMULATIVE ROTATING HRS.	531.25
TOTAL MUD COST	

DRILLING ASSEMBLY (at end of tour) / BIT RECORD

No.	DRILLING ASSEMBLY		BIT RECORD	
	BIT	.25 m	BIT No.	7
1	B/S w/FLOAT	.85	SIZE	222
1	STB RMR 55 OD	2.88 m	MFG.	H.W.
1	D.C. ID MONEL OD	9.05 m	TYPE	ATJ55RG
5	STB RMR 171 OD DC	46.66 m	JETS mm	3x12.4
1	D.C. ID JARS OD	4.80 m	SER. No.	C89YJ
13	STB RMR 171 OD DC	120.80 m	DEPTH OUT	
1	x/o	.50	DEPTH IN	1906
6	HWDP	55.18	TOTAL METRES DRILLED	27
	BHA	240.97	TOTAL HRS. RUN	24
59	STANDS D.P.	1663.61 m	COND. 1/8's T/B/GAGE	
2	SINGLES DP	18.42 m	FLOW RATE m³/min	
	KELLY DOWN	9.94 m	PRESSURE DROP kPa	
	TOTAL	933 m		
	(FORCE) WT. OF STRING	79,000 daN		

MUD RECORD

TIME	1930	0000	0400
DENSITY kg/m³	1230	1225	1210
PRESSURE GRADIENT			
VISCOSITY	72	75	71
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Chem I	1 bbl		
Chem II	1 bbl		
H^2O	3.5 m³		
Diesel	3.5 m³		

REMARKS ✓ BRAKES, LINKAGE, CROWN SAVER, MAN VALVES & GAUGES
B.O.P. HOSES, ACCUMULATOR, FUNCTION REMOTE CHOKE
*MACP w/1210 kg/m³ MUD – 3669 kPa change oil in swivel.
Shaker #1 - 3X110 #2 - 3X140
*SAFETY TOPIC – GOOD COMMUNICATION DRILLER [illegible]

FIRST TOUR

DRILLING ASSEMBLY (at end of tour) / BIT RECORD

No.	DRILLING ASSEMBLY		BIT RECORD	
	BIT	.25 m	BIT No.	7
1	B/S w/Float	.85	SIZE	222
1	STB RMR 55 OD	2.88 m	MFG.	H.W.
1	D.C. ID MONEL OD	9.05 m	TYPE	ATJ55RG
5	STB RMR 171 OD DC	46.66 m	JETS mm	3x12.4
1	D.C. ID Jars OD	4.80 m	SER. No.	C89YJ
13	STB RMR 171 OD DC	120.80 m	DEPTH OUT	OB
1	x/o	.50	DEPTH IN	1906
6	HWDP	55.18	TOTAL METRES DRILLED	38
	BHA	240.97	TOTAL HRS. RUN	34
~~59~~	STANDS DP	~~1663.61~~ m	COND. 1/8's T/B/GAGE	
60	STDS SINGLES DP	1691.83 m	FLOW RATE m³/min	
	KELLY DOWN	11.2 m	PRESSURE DROP kPa	
	TOTAL	1944.00 m		
	(FORCE) WT. OF STRING	79,000 daN		

MUD RECORD

TIME	0800	16:00	
DENSITY kg/m³	1205	1225	
PRESSURE GRADIENT			
VISCOSITY	68	71	
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Barite	20 sxs	LCM PILL	
100 Omv	10 sxs	Circ +	15 sx
Hot Lime	10 sxs	MICAF	7 sx

REMARKS ✓ Brakes, Linkages, Crownsaver, BOP's, Man. Shack, HCR, Fill valves, Accumulator, BOP Hoses, All gauges, Fl. Remote choke, MACP 3583 w/ 1205 Den. Safety topic, Cables + cable clamps, safety cables, SHAKERS #1 3x50 #2 3x50 DRILLER [illegible]

SECOND TOUR

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial [illegible]
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial ____
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	PRUD	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD

REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 973

CUMULATIVE MEGAJOULES 87484

METRES DRILLED / FORMATION

FROM	TO	DR. D. RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1918	1933	15		FUEL @ 06:00 – 12610 lit.	40	19-20	7300	152	110			China
							7350			152	110	
					REDUCED PUMP SPEED		2300	152	55			China

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	06:00	6.0	2	DRILL 222 mm HOLE (FR. 1918 – 1926m)
06:00	06:15	.25	2	DRILL (FR 1926 – 1926.45 m)
06:15	06:30	.25	7	RIG SERV. (FT PIPE RAMS CLOSE 6 SEC) DRILLERS WALKAROUND
06:30	06:45	.25	21	CLEAN SUCTION SCREENS
06:45	12:00	5.25	2	DRILL 222 mm HOLE (FR. 1926 – 1933)

METRES DRILLED / FORMATION

FROM	TO	DR. D. RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1933	1944	11		Shaker #1 - 3X110 #2 - 3X140	40	10/20	8500	152	110			Man. Shack
					REDUCED PUMP SPEED		3500	152	110			Man Shack

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1430	2.5	2	Drill 222 mm Hole (Fr 1933 - 1935)
1430	1445	.25	7	Rig Serv (Ft Annular close 12 sec HCR, 4 sec) (Drillers walk around)
1445	22:15	7.50	2	Drill 222 mm Hole (Fr 1935 – 1944m)
22:15	22:30	.25	22	FLOW CHECK
22:30	24:00	~~1.75~~ 1.50	23	MIX LCM PILL, CHANGE SHKR. SCREENS #1-3x50, #2-3x50 (REMOVE SUCTION SCREEN FR. PUMP # 1)

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		98 02 07

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEKTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	Dale Dagendall

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	PRUD	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 836

CUMULATIVE MEGAJOULES:

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	1	11.5
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	7.5	
7	LUBRICATE RIG	.25	.50
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.	~~3.25~~	
15	TEST B.O.P.	3.25	
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG. TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/OP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD: 46

CUMULATIVE ROTATING HRS: 509.75

TOTAL MUD COST:

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/FLOAT	.85
1	STB RMR 55 OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 OD	46.66 m
1	D.C. ID JARS OD	4.80 m
13	STB RMR 171 OD	120.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	240.97
58	STANDS D.P.	1635.51 m
2	SINGLES DP	18.87 m
	KELLY DOWN	11.65 m
	TOTAL	1907 m
	(FORCE) WT. OF STRING	79,000 daN

BIT RECORD	
BIT No.	7
SIZE	222
MFG.	H.W.
TYPE	ATJ55RG
JETS mm	3/16
SER. No.	C694J
DEPTH OUT	
DEPTH IN	1906
TOTAL METRES DRILLED	1
TOTAL HRS. RUN	1
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	/
PRESSURE DROP kPa	

MUD RECORD			
TIME			1130
DENSITY kg/m³			1230
PRESSURE GRADIENT			
VISCOSITY			78
PV mPa•s / YP Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: ✓ BRAKES & LINKAGE, MAN VALVES & GAUGES, CROWN SAVER, KILL & HCR VALVES, BOP HOSES, ACCUM. FT. REMOTE CHOKE. (RESET CROWN SAVER)

*SAFETY TOPIC - HANDLING D.C.'S DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/Float	.85
1	STB RMR SS OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 OD	46.66 m
1	D.C. ID Jars OD	4.80 m
13	STB RMR 171 OD	120.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	240.97
59	STANDS DP	1663.61 m
1	SINGLES DP	9.24 m
	KELLY DOWN	4.58 m
	TOTAL	1918.40 m
	(FORCE) WT. OF STRING	79,000 daN

BIT RECORD	
BIT No.	7
SIZE	222
MFG.	H.W.
TYPE	ATJ55RG
JETS mm	3x12.4
SER. No.	C894J
DEPTH OUT	OBD
DEPTH IN	1906
TOTAL METRES DRILLED	12
TOTAL HRS. RUN	12.5
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	/
PRESSURE DROP kPa	

MUD RECORD		
TIME	14:00	19:00
DENSITY kg/m³	1230	1230
PRESSURE GRADIENT		
VISCOSITY	75	71
PV mPa•s / YP Pa	/	/
GEL STR Pa	/	/
WATER LOSS cm³		
pH		
SOLIDS %		

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: ✓ Brakes, Linkages, Crown saver, man. sh. BOP's, HCR, Kill Valves, Accumulator, Hyd. BOP Hoses, All gauges. Ft Remote choke. Safety Topic: Cleanliness around Rig. Shaker Screens - Shaker #1 3x110, Shaker #2 3x140

DRILLER [signature]

METRES DRILLED

FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
1906	1907	1		FUEL @ 0600 12036 LTS	40	18	7300	152	110			chimo
					REDUCED PUMP SPEED		2300	152	55			chimo

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 - #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0001	0045	.75	6	Trip out Drill Collars
0045	0100	.25	7	Rig Service Function Test Blind Rams
0100			15	Rig To Pressure Test and Pressure Test Hydril
				Manifold Chokes 2000 KPa @ 10 min 18500 KPa @ 10 min
	0445	3.25		Blind Rams and HCR 2000 KPa @ 10 min 18000 KPa @ 10 min
				Outside Valves Manifold + Bop Valves (Testing Plug)
04:45	1100	6.75	6	Pick up BHA and Trip in Hole (3 metres fill)
11:00	12:00	1.0	2	Drill 222 mm Hole Fr. 1906 - 1907

METRES DRILLED

FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
1907	1918	11			40	19-20	7500	152	110			
					40	19-20	7500			152	110	
					REDUCED PUMP SPEED		2300	152	55			REMOTE CHOK

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 - HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:15	1.25	2	Drill 222 mm Hole Fr. 1907 - 1908
1315	1330	.25	7	Rig serv. Ft Annular + HCR (Drillers walk around)
1330	22:45	9.25	2	Drill 222 mm Hole Fr 1908 - 1917m
22:45	23:00	.25	7	RIG SERV. (CHANGE OIL IN SWIVEL) DRILLER WALKAROUND
23:00	24:00	1.00	2	DRILL 222 mm HOLE (FR. 1917 - 1918m)

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		980206

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	PRUD	53.3	K-55	45	592.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	16.2

METRES CUT OFF 32.4 PRESENT LENGTH
MEGAJOULES SINCE LAST CUT
CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1 RIG UP AND TEAR DOWN		
2 DRILL ACTUAL	8.75	5
3 REAMING		
4 CORING		
5 CONDITION MUD & CIRCULATE	.25	.25
6 TRIPS		5.25
7 LUBRICATE RIG	.25	
8 REPAIR RIG	1.25	
9 CUT OFF DRILLING LINE		1.50
10 DEVIATION SURVEY	.25	
11 WIRE LINE LOGS		
12 RUN CASING & CEMENT		
13 WAIT ON CEMENT		
14 NIPPLE UP B.O.P.		
15 TEST B.O.P.		
16 DRILL STEM TEST		
17 PLUG BACK		
18 SQUEEZE CEMENT		
19 FISHING		
20 DIR. WORK		
21 clean Screens	.75	
22		
23		
COMPLETION A: PERF'R'T'N		
B: TBG TRIPS		
C: TREATING		
D: SWABBING		
E: TESTING		
F: ADDIT'N'L		
G		
TOTALS	12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)
HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK
No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.27 m
1	B/S w FLOAT	.85
1	STB RMR TELE DRIFT OD	1.97 m
1	D.C. ID 55 OD	2.88 m
1	STB RMR MONEL OD	9.05 m
5	D.C. ID 171 OD	46.66 m
1	STB RMR JAR OD	4.80 m
13	DC 171 OD	120.80
1	X/O	.50
6	HWDP	55.18
	BHA	242.96
58	STANDS D P	1635.51 m
1	SINGLES DP	9.60 m
	KELLY DOWN	8.93 m
	TOTAL	1897 m
	(FORCE) WT. OF STRING	79000 daN

BIT RECORD		
BIT No.	6	
SIZE	222	
MFG	DBS	
TYPE	FM2665	
JETS mm	6×14.1	
SER. No.	5983350	
DEPTH OUT		
DEPTH IN	1383	
TOTAL METRES DRILLED	514	
TOTAL HRS RUN	99.25	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	0400	0800	1200
DENSITY kg/m³	1220	1220	1225
PRESSURE GRADIENT			
VISCOSITY	70	70	70
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Hot lime	25 sx		
Omv	25 sx		
Diesel	1 m³		
H2O	.8 m³		

REMARKS ✓ BRAKES + LINKAGE, CROWN SAVER, MAN. VALVES + GAUGES
B.O.P. HOSES, HCR + KILL LINE VALVES, ACCUM. GAUGES
FUNC. REMOTE CHOKE * MACP 3612 kPa w/ 1220 kg/m³ MUD.

*SAFETY TOPIC - KICK WARNING SIGNS DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.27 m
1	B/S w Float	.85
1	STB RMR Tele Drift OD	1.97 m
1	D.C. ID SS MONEL OD	2.88 9.05 m
5	STB RMR 171 OD	46.66 m
1	D.C. ID JAR OD	4.80 m
13	STB RMR 171 OD	120.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	242.96
	STANDS DP	m
	SINGLES DP	m
	KELLY DOWN	m
	TOTAL	m
	(FORCE) WT. OF STRING	daN

BIT RECORD		
BIT No.	6	
SIZE	222	
MFG	DBS	
TYPE	FM2665	
JETS mm	6×14.1	
SER. No.	5983350	
DEPTH OUT	1906	
DEPTH IN	1383	
TOTAL METRES DRILLED	523	
TOTAL HRS. RUN	104.25	
COND. 1/8's T/B/GAGE	10/10	
FLOW RATE m³/min	1.34	
PRESSURE DROP kPa		

MUD RECORD			
TIME	15:00		
DENSITY kg/m³	1230		
PRESSURE GRADIENT			
VISCOSITY	70		
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Hot lime	12 sxs		
Barite	25 sxs		

REMARKS Check Brakes, Linkages, crown saver, HCR, kill valves, BOP's, Manifold Stack, Accumulator, Hydraulic hoses, all gauges, Ft Remote choke. MACP 3612 kPa w/ 1280 kg/m³ mud. Hold Safety meeting about Trip w/ crew.

DRILLER [signature]

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1872	1897	25		FUEL @ 06:00 - 8597 Lt.	45	8/11	7400	152	115	152		chimo
					REDUCED PUMP SPEED		2400	152	56			chimo

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
1864 m	6.9°	27 Az						

BOILER HOURS 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	01:00	1.0	5/10	CIRC. & SURVEY @ 1864 m
01:00	03:15	2.25	2	DRILL 222 mm HOLE (FR. 1872 - 1881 m)
03:15	03:30	.25	7	RIG SERV. (FT HCR + ANN. PREV.) DRILLER WALKAROUND
03:30	06:00	2.50	2	DRILL 222 mm HOLE (FR. 1881 - 1890 m)
06:00	06:15	.25	2	DRILL (FR 1890 - 1890.40 m)
06:15	07:30	1.25	8	REPAIR ROTARY DRIVE CHAIN
07:30	08:00	.50	21	Clean Pump Screens.
08:00	11:00	3.0	2	Drill 222 mm Hole (Fr. 1850 - 1895)
11:00	11:15	.25	21	Clean Pump Screens
11:15	12:00	.75	2	Drill 222 mm Hole (Fr 1895 - 1897)

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1897	1906	9		Total mud Prior to Trip 58.2 Trip Tank - 5.20	45	8/12	7500	152	115			chimo
					REDUCED PUMP SPEED		2500	152	57			chimo

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:45	.75	2	Drill 222 mm Hole (Fr. 1897 - 1900)
12:45	13:00	.25	7	Rig Serv. Ft Pipe Rams close 5 sec
13:00	17:15	4.25	2	Drill 222 mm Hole (Fr 1900 - 1906)
17:15	21:45	4.50	6	Pump P.U. + P.O.O.H. with Flow at OB. 1767, 950, BHA.
21:45	23:15	1.50	9	SLIP & CUT DRILL LINE (CUT 32.4 m + SLIP 16.2 m) SET UP BRAKES
23:15	24:00	.75	6	TRIP OUT D.C.

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
RANGER NOTA CREEK		C-17-65-10-12G		980205 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Vale Lavendall

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10.75	11
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.25	.25
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.75	.50
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.27 m	BIT No.	6	TIME	0000	0430	08:00
1	B/S w/FLT	.85	SIZE	222	DENSITY kg/m³	1215	1220	1230
1	STB RMR Tele Drift OD	1.97 m	MFG	DBS	PRESSURE GRADIENT			
1	D.C. ID 55 OD	2.88 m	TYPE	FM2665	VISCOSITY	70	70	68
1	STB RMR Mower OD	9.05 m	JETS mm	6×11.1	PV mPa•s / YP Pa	/	/	/
5	D.C. ID 171 OD	46.66 m	SER. No.	5983350	GEL STR Pa	/	/	/
1	STB RMR JAR OD	4.80 m	DEPTH OUT		WATER LOSS cm³			
13	DC 171 OD X/O	120.80 .50	DEPTH IN	1383	pH			
6	HWDP	55.18	TOTAL METRES DRILLED	423	SOLIDS %			
	BHA	242.96	TOTAL HRS RUN	79.50				
55	STANDS D.P.	1550.70 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	12.34 m	PRESSURE DROP kPa		Chem. I	1 bbl	100 omv	16 sx
	TOTAL	1806 m			Chem. II	1 bbl	Diesel	4.5 m³
	(FORCE) WT. OF STRING	77,000 daN			Barite	82 sx		
					Hot Lime	47 sx		

REMARKS ✓ BRAKES, LINKAGE, CROWN SAVER, MANIFOLD VALVES & GAUGES, HCR & KILL VALVES, ACCUM. GAUGES, FUNCTION REMOTE CHOKE MACP 3612 kPa w/ DENS. of 1220 kg/m³
Add 5 Gallons Oil to Hydraulic Unit.
*SAFETY TOPIC – HANDLING TONGS DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.27 m	BIT No.	6	TIME	12:00	1800	1130
1	B/S w/FLT	.85	SIZE	222	DENSITY kg/m³	1235	1230	1215
1	STB RMR Tele Drift OD	1.97 m	MFG.	DBS	PRESSURE GRADIENT			
1	D.C. ID 55 OD	2.88 m	TYPE	FM2665	VISCOSITY	66	64	68
1	STB RMR Mower OD	9.05 m	JETS mm	6×11.1	PV mPa•s / YP Pa	/	/	/
5	D.C. ID 171 OD	46.66 m	SER. No.	5983350	GEL STR. Pa	/	/	/
1	STB RMR JAR OD	4.80 m	DEPTH OUT	OBD	WATER LOSS cm³			
13	DC 171 OD X/O	120.80 .50	DEPTH IN	1383	pH			
6	HWDP	55.18	TOTAL METRES DRILLED	489	SOLIDS %			
	BHA	242.96	TOTAL HRS. RUN	90.5				
57	STANDS DP	1806.92	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	9.63 m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa		Versavert	1 bbl		
	TOTAL	1872.31 m			Diesel	6 m³	H_2O	.6 m³
	(FORCE) WT. OF STRING	77,000 daN			Hot Lime	13 sxs		
					100 omv	3 sxs		

REMARKS Check Brakes, Linkages, Crown Saver, BOP's, HCR, Kill valves, Accumulator, Gauges, Ft Remote choke. MACP. 3468 at 1235 Den. Safety Topic. Slippery Floors w/ Inverert.

DRILLER [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]
(2) Detailed Inspection Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
286	8	

METRES CUT OFF | PRESENT LENGTH
MEGAJOULES SINCE LAST CUT
CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	FRVD	53.3	K-55	45	590.4	5.03	589

METRES DRILLED

FROM	TO	(DR. D) RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1732	1806	74		FUEL @ 0600 8311	73	1-35	6700	152	110			Chimo
				NORM w/ HOPPER 800 PSI						152		
					REDUCED PUMP SPEED		2400	152	55			CHIMO

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1741	7.0°	47 AZ						

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	03:00	3.0	2	DRILL 222 mm HOLE (FR 1732 - 1749m)
03:00	03:15	.25	7	RIG SERV. (FT. HCR & ANN. PREV.) DRILLERS WALKAROUND
03:15	04:15	1.0	5/10	CIRC. & SURVEY @ 1741m
04:15	06:00	1.75	2	DRILL 222 mm HOLE (FR. 1749 - 1758m)
06:00	12:00	6.0	2	DRILL 222 mm HOLE (FR. 1758 - 1806)

BOILER HOURS 12 HRS #1

METRES DRILLED

FROM	TO	(DR. D) RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1806	1872	66			73	1-5	7300	152	115			Chimo
				Normin hopper 730 PSI								
					REDUCED PUMP SPEED		2400	152	57			Chimo

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1808	6.8°	Az 37.						

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1445	2.75	2	Dr. 11 222 mm Hole (Fr. 1806 - 1815)
14:45	1500	.25	7	Rig serv. Ft Pipe Rams. Close 5 sec. Drillers walk around
1500	1545	.75	5/10	Circ & Survey @ 1808m
1545	24:00	8.25	2	Dr. 11 222 mm Hole (Fr 1815 - 1872m)

BOILER HOURS 12 HRS #1

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		98 02 04

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Odo Paradell

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10.5	9.5
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.25	.50
6	TRIPS		
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG	.75	
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.50	1.25
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	BOP Drill	.25	
22	WORK ON SCR + GENS.		.50
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.27 m	BIT No.	6	TIME	0000	0430	06:00
1	B/S w/Float	.85	SIZE	222	DENSITY kg/m³	1225	1230	1230
1	STB RMR Tele Drift OD	1.97 m	MFG	DBS	PRESSURE GRADIENT			
1	D.C. ID 55 OD	2.88 m	TYPE	FM2665	VISCOSITY	74	73	72
1	STB RMR Mover OD	9.05 m	JETS mm	6×11.1	PV YP mPa•s Pa	/	/	/
5	D.C. ID 171 OD	46.66 m	SER. No.	5983350	GEL STR. Pa	/	/	/
1	STB RMR Jars OD	4.80 m	DEPTH OUT		WATER LOSS cm³			
13	DC 171 OD	120.80	DEPTH IN	1383	pH			
1	x/o	.50	TOTAL METRES DRILLED	281	SOLIDS %			
6	HWDP	55.18	TOTAL HRS. RUN	59.25				
50	STANDS D.P.	1409.77 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	11.27 m	PRESSURE DROP kPa	—	Hot Lime	20 sx		
	TOTAL	1664 m			Calcium Chloride	20 sx		
	(FORCE) WT. OF STRING	75000 daN			H20	3.5 m³		

REMARKS ✓ BRAKES & LINKAGE, CROWN SAVER, MAN. VALVES & GAUGES HCR & KILL LINE VALVES, ACCUM. GAUGES & B.O.P'S BOP DRILL HELD W/ BRIAN ECCLES + CREW. WELL SEC. 70 SEC. FT ANN HCR REMOTE CHOKE. *SAFETY JRC - LOCKOUT PROCEDURE

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.27 m	BIT No.	6	TIME	08:00	13:00	
1	B/S w/Float	.85	SIZE	222	DENSITY kg/m³	1230	1240	
1	STB RMR Tele Drift OD	1.97 m	MFG	DBS	PRESSURE GRADIENT			
1	D.C. ID 55 OD	2.88 m	TYPE	FM2665	VISCOSITY	71	71	
1	STB RMR Mover OD	9.05 m	JETS mm	6×11.1	PV YP mPa•s Pa	/	/	/
5	D.C. ID 171 OD	46.66 m	SER. No.	5983350	GEL STR. Pa	/	/	/
1	STB RMR Jars OD	4.80 m	DEPTH OUT	OBD	WATER LOSS cm³			
13	171 DC	120.80	DEPTH IN	1383	pH			
1	x/o	.50	TOTAL METRES DRILLED	349	SOLIDS %			
6	HWDP	55.18	TOTAL HRS. RUN	68.75				
52	STANDS DP	1486.73 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	18.46 m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	5.15 m	PRESSURE DROP kPa		Hot Lime	21 sxs	H_2O	1.6 m³
	TOTAL	1732.70 m			Chemul	1 1bbl	Diesel	6.4 m³
	(FORCE) WT. OF STRING	75,000 daN			Chemul	2 1bbl	barite	24 sxs
					Gmx 100	11 sxs		

REMARKS Check Brakes, Linkages, Crown Saver, Man. Shack, BOP's HCR, kill valves, Accumulator, Ft Remote choke, all gauges MACP - 3554 w/ Dens of 1230. Discussed WHMIS w/crew

DRILLER [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
- mud density = kilogram per cubic metre (kg/m³)
- pump stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = second per litre (s/L)
- flow rate = cubic metre per minute (m³/min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
LAST CASING TUBING OR LINER	244.5	226	PRUD	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D RM'R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1608	1664	56		FUEL @ 06:00 - 10603	73	1-2	6000	152	110	152		chimo
				NORMIX	HOPPER		800psi			152	90	
					REDUCED PUMP SPEED		2200	152	55			REMOTE CHOKE

DEVIATION RECORD DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
1629	6.9	N45E						

BOILER HOURS 12 HRS ⇔ 1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	02:30	2.50	2	DRILL 222 mm HOLE (FR. 1608 - 1617m)
02:30	02:45	.25	7	RIG SERV (FT HYDRIL & HCR) DRILLER WALKAROUND
02:45	06:00	3.25	2	DRILL 222 mm HOLE (FR. 1617 - 1634m)
06:00	06:30	.50	2	DRILL 222 mm HOLE (FR. 1634 - 1636m)
06:30	07:15	.25/.50	5/10	CIRC & SURVEY @ 1629m
07:15	09:00	1.75	2	DRILL 222 mm HOLE (FR. 1636 - 1646)
09:00	09:15	.25	7	Rig Serv. Ft. Ann + HCR. Driller walk around
09:15	0930	.25	21	BOP Drill w/crew well sec. 70 sec.
09:30	1200	2.5	2	Drill 222mm Hole (Fr 1646 - 1664)

METRES DRILLED FROM	TO	DR. D RM'R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1664	1732	68			73	1-3	7000	152	110			chimo
				Normix	Hopper		850PSI			152	90	
					REDUCED PUMP SPEED		2400	152	55			chimo

DEVIATION RECORD DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
1667	6.8	43 AZ	1704	7.8	42 AZ			

BOILER HOURS 12 HRS ⇔ 1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1330	1.5	2	Drill 222mm Hole (Fr. 1664 - 1675)
1330	1430	1.0	5/10	Circ + Survey at 1667m
1430	1445	.25	2	Drill 222mm Hole (Fr 1675 - 1676)
1445	1515	.50	22	Fine Tune SCR + Generators
1515	19:15	4.0	2	Drill 222mm Hole (Fr 1676 - 1712 m)
19:15	19:30	.25	7	RIG SERV. (FT PIPE RAMS CLOSE 6 SEC)
19:30	20:15	.75	5/10	CIRC. & SURVEY @ 1704m
20:15	24:00	3.75	2	DRILL 222 mm HOLE (FR. 1712 - 1732m)

OFFICIAL DAILY DRILLING REPORT FORM

No. 11

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		G-17-65-10-12G		98 02 03

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	[illegible]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	8	9.75
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	1.75	.50
6	TRIPS		
7	LUBRICATE RIG	.25	.50
8	REPAIR RIG	.75	
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	1.25	1.25
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT	.27	m
1	B/S W/FLOAT	.85	
1	STB RMR TELE DRIFT OD	1.97	m
1	D.C. ID 5.5 OD	2.88	m
1	STB RMR MONEL OD	9.05	m
5	D.C. ID 171 DC OD	46.66	m
1	STB RMR JARS OD	4.80	m
13	171 DC	120.80	
1	X/O	.50	
6	HWDP	55.18	
46	STANDS D.P.	1296.38	
1	SINGLES DP	9.40	m
	KELLY DOWN	12.80	m
	TOTAL	1561.54	
	(FORCE) WT. OF STRING	70,000	daN

BIT RECORD		
BIT No.	6	
SIZE	222	
MFG.	DBS	
TYPE	FM2665	
JETS mm	6X11.1	
SER. No.	5983350	
DEPTH OUT	OBD	
DEPTH IN	1383	
TOTAL METRES DRILLED	177	
TOTAL HRS. RUN	39	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	02⁰⁰	06⁰⁰	
DENSITY kg/m³	1220	1230	
PRESSURE GRADIENT			
VISCOSITY	63	69	
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
OMV-100	18 sks		
Barite	60 sks		
Lime	8 sks		

REMARKS: MACP: 3669 kPa w/DENSITY of 1215 kg/m³ - FT. REMOTE CHOKE, ✓ MAN. VALVES, HCR + KILL LINE VALVES, ✓ BRAKE LINKAGE, ✓ CROWN SAVER, ✓ ACCUMULATOR GAUGES + BOP'S CHANGE SHAKER SCREENS - #1 (3x110) #2 (3x140) TALKED ABOUT SHUT-IN PROC. w/DRILLERS

DRILLER: Merle Gronsgren

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.27	m
1	B/S W/FLOAT	.85	
1	STB RMR TELE DRIFT OD	1.97	m
1	D.C. ID 5.5 OD	2.88	m
1	STB RMR MONEL OD	9.05	m
5	D.C. ID 171 DC OD	46.66	m
1	STB RMR JARS OD	4.80	m
13	171 DC	120.80	
1	X/O	.50	
6	HWDP	55.18	
48	STANDS DP	1352.96	
	SINGLES DP		m
	KELLY DOWN	12.80	m
	TOTAL	1608.72	
	(FORCE) WT. OF STRING	71,000	daN

BIT RECORD		
BIT No.	6	
SIZE	222	
MFG.	DBS	
TYPE	FM2665	
JETS mm	6X11.1	
SER. No.	5983350	
DEPTH OUT	OBD	
DEPTH IN	1383	
TOTAL METRES DRILLED	224	
TOTAL HRS. RUN	48.75	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	1130	1600	2400
DENSITY kg/m³	1225	1225	1225
PRESSURE GRADIENT			
VISCOSITY	78	70	74
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
Chem I	bbl		
Chem II	bbl		
OMV	8 sxs		
Hot Lime	20 sxs		

REMARKS: MACP - 3641 w/Den. of 1225, Ft Remote choke, Check Brakes, linkages, crown saver, man. shut. HCR, Kill valves, Accumulator, BOP'S, all gauges.

DRILLER: [illegible]

LEGEND — All lengths expressed in metres to two decimal places.

Metric expressions:
- mud density = kilogram per cubic metre (kg/m³)
- pump-stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = second per litre (s/L)
- flow rate = cubic metre per minute (m³/min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION: [illegible]

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG HD	SET AT
	244.5	22.6	PRUD	53.3	K55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF: | PRESENT LENGTH:

MEGAJOULES SINCE LAST CUT: 6995

CUMULATIVE MEGAJOULES: 83523

METRES DRILLED FROM	TO	DR'G RM'R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1524	1561	36		FUEL @ 0600 8884	80	0-2	6000	152	110			
				NORMIX HOPPER	150 RPM			152	90			
					REDUCED PUMP SPEED		2200	152	60	CHIMO	MALSHACK 25	

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1532m	4.5°		1525m	5.4°	35 AZ			
1541m	4.5°							

BOILER HOURS: 12 hrs. #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00⁰⁰	01⁴⁵	1.75	2	DRILL 222 mm HOLE FR. 1524-1533 (12min/m TIME DRILL)
01⁴⁵	02⁰⁰	.25	10	SURVEY @ 1532m = 4.5°
02⁰⁰	02¹⁵	.25	7	RIG SERVICE FT. HCR + HYDRIL (DRILLERS WALK AROUND)
02¹⁵	05⁰⁰	2.75	2	DRILL 222mm HOLE (FR. 1533m-1542m) TIME DRILL
05⁰⁰	05¹⁵	.25	10	SURVEY @ 1541m = 4.5°
05¹⁵	06⁰⁰	0.75	2	DRILL 222 mm HOLE (FR. 1542m-1546m)
06⁰⁰	07⁴⁵	1.75	5/10	CIRC + SURVEY @ 1546m (REPAIR SURVEY UNIT 3/4 HR)
07:45	09:45	2.00	2	DRILL 222 mm HOLE (FR. 1546-1558m)
09:45	11:15	1.50	5	CIRC. UP SAMPLES
11:15	12:00	.75	2	DRILL 222 mm HOLE (FR. 1558 - 1561 m)

METRES DRILLED FROM	TO	DR'G RM'R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1561	1608	47			80	1-5	6300	152	110	152		chimo
				NORMIX HOPPER	80 RPM			152	90	152		
					REDUCED PUMP SPEED		2200	152	55			chimo
							2300	152	5	5		marsh

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
~~1568m~~	~~4.5°~~							
1565	6.1	40 AZ	1589	6.6	34 AZ			

BOILER HOURS: 12 HRS #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	14:00	2.0	2	DRILL 222 mm HOLE (FR. 1561 - 1570 m)
14:00	14:15	.25	10	SURV. w/TELEDRIFT @ 1568 m
14:15	14:30	.25	7	RIG SERV. FT PIPE RAMS CLOSE 7 sec.
14:30	15:15	.25/.50	5/10	CIRC + RUN WIRELINE SURVEY
15:15	20:30	5.25	2	DRILL 222 mm HOLE (FR. 1570 - 1599)
20:30	21:15	.25/.50	5/10	Circ + Run wireline survey
21:15	21:30	.25	7	Rig serv. Ft Pipe Rams close 7 sec (Drillers walk around)
21:30	24:00	2.50	2	Drill 222mm Hole (FR. 1599 - 1608m)

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
RANGER NOTA CREEK		C-17-65-10-12G		98 02 02 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SHEHTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Dale Barnhart

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	~~4½XH~~	4½XH	232	1	NATIONAL	8P80	216
			156			2	NATIONAL	8P80	216

LEGEND — All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial [illegible]	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial [illegible]	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____	(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	22.6	PTUD	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 6764

CUMULATIVE MEGAJOULES 83292

TIME DISTRIBUTION - HOURS

CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1. RIG UP AND TEAR DOWN		
2. DRILL ACTUAL	10.75	10.25
3. REAMING		
4. CORING		
5. CONDITION MUD & CIRCULATE		
6. TRIPS		
7. LUBRICATE RIG	.50	.25
8. REPAIR RIG		
9. CUT OFF DRILLING LINE		
10. DEVIATION SURVEY	.75	1.50
11. WIRE LINE LOGS		
12. RUN CASING & CEMENT		
13. WAIT ON CEMENT		
14. NIPPLE UP B.O.P.		
15. TEST B.O.P.		
16. DRILL STEM TEST		
17. PLUG BACK		
18. SQUEEZE CEMENT		
19. FISHING		
20. DIR. WORK		
21.		
22.		
23.		
COMPLETION: A. PERF'R'T'N		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'N'L		
G.		
TOTALS	12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.27	m
1	B/S ~~TELE~~ FLOAT	.85	
1	STB RMR ~~TELE DRIFT~~ OD	1.97	m
1	D.C. ID S.S OD	2.88	m
1	STB RMR MONEL OD	9.05	m
5	D.C. ID OD	46.66	m
1	STB RMR JARS OD	4.80	m
13	171 DC	120.80	
1	X/O	.50	
6	HWDP	55.18	
44	STANDS D.P.	1240.27	m
41	SINGLES DP	9.46	m
	KELLY DOWN	3.78	m
	TOTAL	1496.54	m
	(FORCE) WT. OF STRING	69,000	daN

BIT RECORD		
BIT No.	6	
SIZE	222	
MFG.	DBS	
TYPE	FM2665	
JETS mm	6x11.1	
SER. No.	5983350	
DEPTH OUT		
DEPTH IN	1383	
TOTAL METRES DRILLED	113	
TOTAL HRS. RUN	20.75	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	00:00	06:00	
DENSITY kg/m³	1190	1195	
PRESSURE GRADIENT			
VISCOSITY	57	63	
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
OMV-100	24 SKS	CHEM WET	160l
H2O	3m³	Lime	155SKS
CHEM I	2 BBLS + 180 l		
CHEM II	2 BBLS + 180 l		

REMARKS * MACP = 3785 KPA W/DENSITY OF 1190 kg/m³
√ BRAKE LINKAGE, CROWN SAVER, ACCUMULATOR GAUGES, MAN. SHACK GAUGES, KILL LINE VALVES, HCR,
HELD SAFETY MEETING REGARDING LOCKOUT PROCEDURES
SHAKER # 2 (3x84)

DRILLER Mark Grayston

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.27	m
1/1	B/S/TELE DRIFT	.85/1.97	
1	STB RMR SS OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR DC171 OD	46.66	m
1	D.C. ID JARS OD	4.80	m
13	STB RMR DC171 OD	120.80	m
1	X/O	.50	
6	HWDP	55.18	
	BHA	242.96	
	STANDS DP		m
136	SINGLES DP	1248.84	m
	KELLY DOWN	12.80	m
	TOTAL	1524.00	m
	(FORCE) WT. OF STRING	70,000	daN

BIT RECORD		
BIT No.	6	
SIZE	222	
MFG.	DBS	
TYPE	FM2665	
JETS mm	6x11.1	
SER. No.	5983350	
DEPTH OUT	OBD	
DEPTH IN	1383	
TOTAL METRES DRILLED	141	
TOTAL HRS. RUN	31.0	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	10:00	17:00	23:00
DENSITY kg/m³	1195	1195	1210
PRESSURE GRADIENT			
VISCOSITY	70	63	59
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
Chem I	2 bbl.		
Chem II	2 bbl.		
OMV 100	18 SX		
Lime	18 SX		

REMARKS √ BRAKES & LINKAGE, CROWN SAVER, MAN VALVES & GAUGES, KILL LINE & HCR VALVES, ACCUM. GAUGES, FUNC. REMOTE CHOKE
- WENT OVER BREATHING APPARTUS WITH EACH CREW MEMBER
* GREASED CROWN
* SAFETY TOPIC - WHMIS

DRILLER [signature]

METRES DRILLED / FORMATION

FROM	TO	DR. D. RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1425	1496	71		FUEL @ 06:00 5440	80	—	5540	152	110			
				NORMIX HOPPER 7500				152	89			
					REDUCED PUMP SPEED		2000	152	55	MAN	SHACK	55@2500

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1429m	2°		1475m	3½°		1493m	4.5°	
1457m	2½°		1486m	4.5°				

BOILER HOURS 12 hrs. #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	03:30	3.50	2	DRILL 222mm HOLE Fr. 1425-1468m
03:30	03:45	.25	7	SERVICE RIG - FT HCR + HYDRIL (DRILLERS WALK AROUND)
03:45	04:15	.50	2	DRILL 222mm HOLE Fr. 1468m - 1477m
04:15	05:00	.75	10	SURVEY (PRIOR TOUR)
05:00	11:15	6.25	2	DRILL 222mm HOLE Fr. 1477m 1495m TIME DRILL
11:15	11:30	.25	7	RIG. SERV. - DRILLER WALKAROUND
11:30	12:00	.50	2	DRILL (FR 1495 - 1496m) TIME DRILL 20min/m

METRES DRILLED / FORMATION

FROM	TO	DR. D. RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1496	1524	28					5800	152	110			
				NORMIX HOPPER 7500				152	90			
					REDUCED PUMP SPEED		2200	152	60	Lime	2600 KPA	MAN SHACK

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1502	4.5°		1522	4.5°				
1513	4.5°		1525	5.4	35 Az			

BOILER HOURS 12 hrs. #1

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	15:45	3.75	2	DRILL 222 mm HOLE (FR - 1496 - 1505m) TIME DRILL 20min/m
15:45	16:00	.25	10	SURVEY w/ TELEDRIFT @ 1502m
16:00	16:15	.25	7	RIG SERV. (FT PIPE RAMS CLOSE 7 SEC) DRILLER WALKAROUND
16:15	19:45	3.50	2	DRILL 222 mm HOLE (FR. 1505 - 1513m) TIME DRILL 20min/m
19:45	20:45	1.00	10	CIRC. + SURVEY @ 1513m (3 Times)
20:45	23:45	3.00	2	DRILL 222mm HOLE (Fr. 1513m - 1524) Time DRILL 20min/m
23:45	24:00	.25	10	SURVEY @ 1524m

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		98 02 01

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		0.00
3	REAMING	.75	1.25
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	9.25	.25
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	HANDLE BITM HOLE ASSEMBLY	2.0	
22	CHANGE SHAKER SCREENS		.50
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)			BIT RECORD		MUD RECORD	
	BIT		.27 m	BIT No.	6	TIME	
1	B/S		.85	SIZE	222	DENSITY kg/m³	
1	STB RMR TELE DRIFT	OD	1.97 m	MFG.	DBS	PRESSURE GRADIENT	
1	D.C. ID 55	OD	2.88 m	TYPE	FM2665	VISCOSITY	
1	STB RMR MONEL	OD	9.05 m	JETS mm	6x11.1	PV YP mPa•s Pa	/ / /
5	D.C. 46.66	OD	46.66 m	SER. No	5983350	GEL STR. Pa	/ / /
1	STB RMR JARS	OD	4.80 m	DEPTH OUT		WATER LOSS cm³	
13	171 D.C		120.80	DEPTH IN	1383	pH	
1	X/O		.50	TOTAL METRES DRILLED		SOLIDS %	
6	HWDP		55.18	TOTAL HRS. RUN			
	STANDS D.P.		m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP		m	FLOW RATE m³/min	/ /	TYPE / AMT. kg	TYPE / AMT. kg
	KELLY DOWN		m	PRESSURE DROP kPa		CHEM WAT 90l	
	TOTAL		m			CHEM II 90l	
	(FORCE) WT. OF STRING		daN			Barite 25 sks	

REMARKS MACP 3669 kPa w/DENSITY @ 1205 kg/m³
FLOW √ as REQUIRED BY NEB.
HELD SAFETY MEETING + BOP DRILL w/CREW
- FILL PIPE @ 600m & 1200m
TIGHT HOLE 1210-1217, 1277-1297m

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)			BIT RECORD		MUD RECORD		
	BIT		.27 m	BIT No.	6	TIME	1500	1900	2200
1	B/S		.85	SIZE	222	DENSITY kg/m³	1200	1175	1185
1	STB RMR TELE DRIFT	OD	1.97 m	MFG.	DBS	PRESSURE GRADIENT			
1	D.C. ID 55	OD	2.88 m	TYPE	FM2665	VISCOSITY	66	62	52
1	STB RMR MONEL	OD	9.05 m	JETS mm	6x11.1	PV YP mPa•s Pa	/	/	/
5	D.C. ID 171	OD	46.66 m	SER. No.	5983350	GEL STR. Pa	/	/	/
1	STB RMR JARS	OD	4.80 m	DEPTH OUT	OBD	WATER LOSS cm³			
13	DC 171	OD	120.80	DEPTH IN	1383	pH			
1	X/O		.50	TOTAL METRES DRILLED	42	SOLIDS %			
6	HWDP		55.18	TOTAL HRS. RUN	10.00				
	STANDS DP		m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
125	SINGLES DP		174.88 m	FLOW RATE m³/min	/	TYPE / AMT. kg	TYPE / AMT. kg		
	KELLY DOWN		7.16 m	PRESSURE DROP kPa		(Chem I) 2 bbl.			
	TOTAL		1425.00 m			(Chem II) 2 bbl.			
	(FORCE) WT. OF STRING		69,000 daN			(Chem. WAT) 1 bbl.			

REMARKS √ BRAKE + LINKAGE, √ CROWN SAVER, √ MAN. VALVES + GAUGES, √ KILL + HCR VALVES, √ ACCUM. GAUGES + B.O.P. - change screens on shaker #2 - 3x50

*SAFETY TOPIC - TRIPPING

DRILLER

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION: 18 81

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	PrUD	53.3	K-55	45	590.01	5.03	589
	88	71	= 1.00						

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
1383				Fuel @ 6:00 PUR NORMIX			950 Psi		80			
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	04:00	4.00	6	POOH - PT. CROWN SAVER + PIPE RAMS, PT. BLIND RAM w/out
04:00	06:00	2.00	21	HANDLE BITM. ASSEMBLY
06:00	11:05	5.25	6	RIH - TEST TELEDRIFT @ 174m, 600m,
11:05	12:00	.75	3	REAM TIGHT HOLE (FR. 1277 - 1297m)

BOILER HOURS 12 hrs. 1+ 0 HRS = 2

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
1383	1425	42			55/65	3/5	5300	152	110	152		
				NORMIX HOPPER			750 psi			152	80	
					REDUCED PUMP SPEED		2100	152	57			

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1381	2.5°		1402	2°				
	1390	2.5°		1411	2°				

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	.25	6	R.I.H. (3 STDS DP, BREAK OFF TOP SINGLE)
12:15	13:45	1.25	3	REAM (FROM 1362 - 1383m)
13:45	14:15	.50	22	CHANGE SCREENS ON SHKR #2 (3x50)
14:15	17:00	2.75	2	DRILL 222 mm HOLE (FR. 1383 - 1393m) SURVEY w/TELEDRIFT @ 1381m, 1390m
17:00	17:15	.25	7	RIG SERV. (FT PIPE RAMS CLOSE 6 SEC)
17:15	23:15	6.00	2	DRILL 222 mm HOLE (FR. 1399 - 1421m)
23:15	23:30	.25	7	RIG SERVICE FT. HCR (DRILLERS WALK AROUND)
23:45	24:00	.25	2	DRILL 222 mm HOLE (FR. 1421 - 1425m)

BOILER HOURS 12HR #1

1831

Feb 1-17/98

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger NOTA Creek C-17	EL-390	C-17 65°10', 126°00'		97 12 14 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger OIL. FID.	SHEHTAH Drilling.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS			

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS DP	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG.			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB. RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB. RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS DP	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS

DRILLER [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial ____
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial ____
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION: Ranger NOTA creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
				97/12/14								
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
13:00	21:00	8		START vehicles, warm Generator + pre-pare Rig for. move.	
				Rig Loader clean yard for move.	

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
				97/12/15								
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
9:00	19:00	12	1	Load Trucks in yard. Travel To new Location spot matting for Camp & off Load Trucks with camp shacks	
				1 Day.	
				Rig Loader: Load Trucks in yard, Travel To new Location & off Load Trucks.	
				2nd Loader: Load Trucks & prepare Loads in yard. 6 hrs.	

FORM 2T6m APPROVAL PENDING CADC APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger NOTA Creek C-17	EL-390	C-17 65°10'-126°00'		9/12/16

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil LTD	SHEHTAH Drilling LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial ____	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial ____	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____	(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION: Ranger NOTA Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	5	8
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		5	8

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG.			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS RUN						
	STANDS D P	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
						TYPE	AMT. kg	TYPE	AMT. kg
	SINGLES DP	m	FLOW RATE m³/min	/	/				
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG.			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS DP	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
						TYPE	AMT. kg	TYPE	AMT. kg
	SINGLES DP	m	FLOW RATE m³/min	/	/				
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS

DRILLER [signature]

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
07:00	12:00	5	1	Load CAMP AT yard + Travel To New LOCATION and START spotting CAMP.	
				Rig Loader @ new LOCATION 1 DAY.	
				Loader #2. AT yard 12 hrs. Loading	
				Trucks, Preparing Loads + Push snow.	

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
12:00	20:00	8	1	Spot 6 CAMP shacks + Rig up, Fire up	
				CAMP PLANT + Hook up Electrical + Fire FURNACES	
				CAMP Light PLANT Fired up @ 11:00	

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger NOTIA Creek C-17	EL-390	C-17 65° 10' - 126° 00'		97 12 17

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil LTD.	SHEHTAH Drilling LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial ____
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial ____
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION: Ranger NOTIA Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	4	8
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		4	8

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	m	BIT No.		TIME			
			SIZE		DENSITY kg/m³			
	STB RMR OD	m	MFG.		PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE		VISCOSITY			
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³			
			DEPTH IN		pH			
			TOTAL METRES DRILLED		SOLIDS %			
			TOTAL HRS RUN					
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa					
	TOTAL	m						
	(FORCE) WT. OF STRING	daN						

REMARKS

Held Pre Rigup. Safety meeting with Crews.

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	m	BIT No.		TIME			
			SIZE		DENSITY kg/m³			
	STB RMR OD	m	MFG.		PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE		VISCOSITY			
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³			
			DEPTH IN		pH			
			TOTAL METRES DRILLED		SOLIDS %			
			TOTAL HRS RUN					
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa					
	TOTAL	m						
	(FORCE) WT. OF STRING	daN						

REMARKS

DRILLER: [signature]

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
08:00	12:00	4	1	Spot porch & Rest of matting & building for Camp, insulate & Fire Furnaces & clean Camp. ~~Start assembling sub & spot~~	
				Rig Loader at new location, spot porch & Rest of Camp matting & unload Trucks & spot sub matting @ Lease.	
				2nd Loader at yard Loading Trucks & prepare Loads for Hauling.	

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
12:00	20:00	8	1	Relevel Lease, spot matting, unload Trucks. Start assembling sub & spot same. Clean out channels for Top party subs.	

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger NOTA Creek C-17	EL-390	C-17 65° 10' - 126° 00'		97 12 18 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL	SHEHTAH DRILLING	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

TIME DISTRIBUTION - HOURS		
CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1. RIG UP AND TEAR DOWN	4	8
2. DRILL ACTUAL		
3. REAMING		
4. CORING		
5. CONDITION MUD & CIRCULATE		
6. TRIPS		
7. LUBRICATE RIG		
8. REPAIR RIG		
9. CUT OFF DRILLING LINE		
10. DEVIATION SURVEY		
11. WIRE LINE LOGS		
12. RUN CASING & CEMENT		
13. WAIT ON CEMENT		
14. NIPPLE UP B.O.P.		
15. TEST B.O.P.		
16. DRILL STEM TEST		
17. PLUG BACK		
18. SQUEEZE CEMENT		
19. FISHING		
20. DIR. WORK		
21.		
22.		
23.		
COMPLETION: A. PERF'R'T'N		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'N'L		
G.		
TOTALS	4	8

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/ /		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS Held Safety meeting with crews. Prior to Rig up.

DRILLER Tom

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/ /		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS Held fire drill and discussed procedures. Held meeting with First aid Attendant.

DRILLER Brian Geeks

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION Ranger NOTA Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL. P COM.D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
0800	1200	4	1	SPOT MATTING. FINISH PINNING TOP PONY SUBS, LEVEL SUB. SHOVEL SNOW OFF CAMP ROOF. UNLOAD TRUCKS.	
				Rig Loader AT Lease unloading Truck, spot matting, Help spot Buildings	
				2nd Loader AT yard Loading Trucks, preparing to load & clear up yard & push snow.	

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL. P COM.D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
1800	0000	8	1	SPOT DRAWORKS, PIN & BOLT DOWN. SHOVEL SNOW OFF BUILDINGS, ASSEMBLED DERRICK. SPOT, MUD TANKS, PUMP HOUSES, DOG HOUSE, WATER TANK. PIN DERRICK TO SUB. LAYED GEN. MATTING.	
				Tom Cariere Followed SCR From yard To Lease Traveled slowly and Everything OK. double Lined for Loading and unloading. Tom	

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger POTA Creek C-17	EL-390	C-17 65°10'-126°00'		97 12 19 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	N. Speare

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial ____
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial ____
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial ____
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial ____
(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION: Ranger POTA Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	5	8
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		5	8

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG.			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS D.P.	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS: Benjy Lowson Grave yard shift
Rig watch

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG.			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS DP	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS

DRILLER: Brian Cook

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
0700	1200	5	1	WORKED ON DERRICK. RAISED A LEGS. SPOT. GEN I, II III. 3' SKR. Gen #1 on Line @ 12:00 RIG LOADER RIG UP AT R.G MOVE MATTING. UNLOAD TRUCKS. LOADER #2 LOAD TRUCKS, PREPARE LOADS PUSH SNOW CLEAN YARD.	

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
1200	2000	8	1	SPOT PREMIX TANK BOILER 1 & 2. CENRAFUGE. 3 STAND. PUSH SHACK. ENGINEER SHACK. CONSTRUCTION ENGINEER SHACK. HOOK UP LIGHT CORDS. START COID START @ 1600. GEN #1 ON LINE AT 1800. OFF LOAD 9" Collors & HW. DRILL PIPE.	

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger NOTA Creek C-17	EL-390	C-17 65°10' - 126°00'		97 12 20

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	SHEHTAH Drilling LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	[illegible]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION: Ranger NOTA Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	4	8
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		4	8

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	m
	STB. RMR OD	m
	D.C. ID OD	m
	STB. RMR OD	m
	D.C. ID OD	m
	STB. RMR OD	m
	STANDS D.P.	m
	SINGLES DP	m
	KELLY DOWN	m
	TOTAL	m
	(FORCE) WT. OF STRING	daN

BIT RECORD			
BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/GAGE			
FLOW RATE m³/min	/		/
PRESSURE DROP kPa			

MUD RECORD			
TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: Benny, Louison ~~[illegible]~~ ~~[illegible]~~ Grave yard shift. Rig watch

DRILLER: Tom [illegible]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	m
	STB. RMR OD	m
	D.C. ID OD	m
	STB. RMR OD	m
	D.C. ID OD	m
	STB. RMR OD	m
	STANDS DP	m
	SINGLES DP	m
	KELLY DOWN	m
	TOTAL	m
	(FORCE) WT. OF STRING	daN

BIT RECORD			
BIT No.			
SIZE			
MFG.			
TYPE			
JETS mm			
SER. No.			
DEPTH OUT			
DEPTH IN			
TOTAL METRES DRILLED			
TOTAL HRS. RUN			
COND. 1/8's T/B/GAGE			
FLOW RATE m³/min	/		/
PRESSURE DROP kPa			

MUD RECORD			
TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER: Brian [illegible]

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
0800	1200	4	1	Rig up power cord's To Drawworks, mud Pump 1,2 work on Derrick Lines, work on Boiler's 1,2 Power Lines. Set up Centrefuge. Hooked up power To mud Tank.	
				Rig Loader, unload Truck's unload Drill pipes and Drill Collars. Set mating and storge Tanks	
				Loader #2 Load Truck and Load Drill pipe and drill collar's. clean yard. and push snow	

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
1200	2000	8	1	Worked power cord's, rotary chain, spool Drill Line Through block's. Hooked up air To Rig. work on water and steam Lines Hooked power To Tool Push and Engineer shack. Put on Kelly Hose & Goosenest.	

FORM 2T6m APPROVAL PENDING APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger NOTA creek C-17	EL-390	C-17 65°10'-126°00'		97 12 21 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	SHEMTAH Drilling LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGEND All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION: Ranger NOTA creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
METRES CUT OFF	PRESENT LENGTH	
MEGAJOULES SINCE LAST CUT		
CUMULATIVE MEGAJOULES		

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	4	8
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		4	8

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	m	BIT No.		TIME		
			SIZE		DENSITY kg/m³		
	STB RMR OD	m	MFG.		PRESSURE GRADIENT		
	D.C. ID OD	m	TYPE		VISCOSITY		
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³		
			DEPTH IN		pH		
			TOTAL METRES DRILLED		SOLIDS %		
			TOTAL HRS. RUN				
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa				
	TOTAL	m					
	(FORCE) WT. OF STRING	daN					

REMARKS: Helded safety meeting prior to raising derrick. Inspect braker, pins and linkage prior to raising derrick.
Benji Louison Graveyard Rig watch

DRILLER [signature]

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'L. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
0800	1200	4	1	Put monkey boards and tarp on derrick Prepare derrick for raising Inspected crown and derrick and helded safety meeting prior to lifting. Inspected safety pins, safety lines, changed ropes on cat line and boom line, changed shivs anchor line on cat line Inspected all cables and bridle line and shives. Inspected A-legs and pins. Raised derrick 1200. Rig loader rig up around leare and unload tubulars.	
		loader #2		Prepare loads and load trucks and clean yard.	

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	m	BIT No.		TIME		
			SIZE		DENSITY kg/m³		
	STB RMR OD	m	MFG.		PRESSURE GRADIENT		
	D.C. ID OD	m	TYPE		VISCOSITY		
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³		
			DEPTH IN		pH		
			TOTAL METRES DRILLED		SOLIDS %		
			TOTAL HRS. RUN				
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa				
	TOTAL	m					
	(FORCE) WT. OF STRING	daN					

REMARKS

DRILLER [signature]

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'L. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
1200	2000	8	1	Unbridle blocks from bridle line, spot mud man shack, spot shale sloop, weld on diverter bowl, Modify shale slides, rig up prefabs and tarps, Hooked up hydrolics, rig up electrical, tear out geolograph and crate, rig up stairs around mud tanks and to rig floor. Install hand rails and floor plates	

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek C17	EL-390	C17 65° 10'-126° 00'		97 12 22 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	SHEHTAH Drilling LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Tom [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½ XH	232	#1	National	8P80	216
						#2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	4	7
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		4.75
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Safetymeet		.25
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		4	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK
No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: Bessie Louisons Graveyard Rig watch

DRILLER: Tom [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: Fired up Gen #2 & #3 at 1500

DRILLER: Brian Rach

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.			R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)		Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)		Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering		Initial

LEGAL LAND DESCRIPTION: Ranger Nota Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 740

CUMULATIVE MEGAJOULES: 68611

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0800	1200	4	1	Prepare Boiler #1. Fired up at 10 o'clock A.M. Finish PreFabe and Tarps on Rig Floor. Work on Steam Hoses. Hook up all water Lines & circ. Complete Hyd system and circ. Place Diverter, spool & H.C.R valve in sub. slip extra Line on ~~drill line~~ drum. Rig forklift. General Rigup. Level Lease, Move containers, Unload Trucks.

BOILER HOURS: 2 hrs = 1

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
					110			152	100	152	100	
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	~~1500~~	3	1	Work on Boilers, circ steam through Rig. Work on Suction Lines, Mud Tanks.
	1500			Work on Prefabs for Mud Tanks.
1500	1515	.25	21	Held Safety meeting w/crew, Prior to Nipple up Diverter.
1515	20:00	4.75	14	Nipple up Diverter & General Rigup.
20:00	24:00	4	1	Rig up, Spot Big Buck's Barn.

BOILER HOURS: 12 hrs = 1

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Notia Creek	EL-390	C17 65° 10' - 126° 00'		971223

OPERATOR	CONTRACTOR	RIG No.
Ranger oil	SHENTAH Drilling LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Tom [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½ XH	232	#1	NATIONAL	8P80	216
						#2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	12	12
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS D P	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
						TYPE	AMT. kg	TYPE	AMT. kg
	SINGLES DP	m	FLOW RATE m³/min	/	/				
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS

[signature]

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS DP	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
						TYPE	AMT. kg	TYPE	AMT. kg
	SINGLES DP	m	FLOW RATE m³/min	/	/				
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS Shaker Screens #1 50X3
#2 50X3.

DRILLER [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial [signature]
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial [signature]
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION Ranger Notia Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 740

CUMULATIVE MEGAJOULES 68611

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
				FUEL @ 0600 9457								
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	12:00	12	1	Rigging up, work on mud Tank prefabs, Rig up #2 Boiler, pick up Floor Equip., Hook up pump suctions, spot catwalk, pin V-Door, spot matting in Front of Big Bucks barn, Hook up power + steam to premix Tank, Hook up Flow nipple + flow Line. Rig up Floor; Line spooler, stand pipe, guages Shock hose, place valves in Mud Pump #1 + #2 Put H2O in Mud Tanks, check for leaks.

BOILER HOURS 12 hrs #1

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
	KB TO GROUND 5.50 m							15	120	15	120	
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00				Clean Snow off stairways, catwalk, work on Mud Tanks, Mixing Pumps, Recharge pumps. Pick up swivel, Make up kelly, kelly spinner, Place in kelly Racking Sock, kelly Bushing, Put Pipe Racks into Place, Tighten Bolts on Diverter. Work on Boiler, Fill mud
	24:00		1	Tanks w/ H2O, Work on Shakers.

BOILER HOURS 12 hrs #2

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger NOTA Creek	EL-390	C17 65°10'-126°00'		97 12 24 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	SHEHTAH Drilling LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½ XH	232	1	NATIONAL	8 P80	216
						2	NATIONAL	8 P80	216

TIME DISTRIBUTION - HOURS		
CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1 RIG UP AND TEAR DOWN	8.5	
2 DRILL ACTUAL	1.0	
3 REAMING		
4 CORING		
5 CONDITION MUD & CIRCULATE		
6 TRIPS		3
7 LUBRICATE RIG		
8 REPAIR RIG		1
9 CUT OFF DRILLING LINE		
10 DEVIATION SURVEY		
11 WIRE LINE LOGS		
12 RUN CASING & CEMENT		
13 WAIT ON CEMENT		
14 NIPPLE UP B.O.P.		
15 TEST B.O.P.		
16 DRILL STEM TEST		
17 PLUG BACK		
18 SQUEEZE CEMENT		
19 FISHING		
20 DIR. WORK		
21 BHA	2.0	
22 Safetymeet	.50	
23 Drill Conductor		8
COMPLETION A. PERF'R'T'N		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'N'L		
G.		
TOTALS	12	

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		12
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	m	BIT No.		TIME			
			SIZE		DENSITY kg/m³			
	STB RMR OD	m	MFG.		PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE		VISCOSITY			
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³			
			DEPTH IN		pH			
			TOTAL METRES DRILLED		SOLIDS %			
			TOTAL HRS. RUN					
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa		Soda Ash	1 SX		
	TOTAL	m			Caustic	1 SX		
	(FORCE) WT. OF STRING	daN			Gel	10 SX		

REMARKS Discussed Garbage Management. Rig Safety, Hazards, Chemicals, etc.

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
1	BIT	.44 m	BIT No.	1	TIME	15:00	19:00	22:00
	Bit Sub	1.10	SIZE	17½	DENSITY kg/m³			
	STB RMR FLL SUB OD	.93 m	MFG.		PRESSURE GRADIENT			
	D.C. ID 7⅝ OD	.50 m	TYPE		VISCOSITY	35	40	38
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.	808725	GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³			
			DEPTH IN		pH	9.5	9.5	9.0
			TOTAL METRES DRILLED		SOLIDS %			
			TOTAL HRS. RUN					
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa		GEL	60 SX		
	TOTAL	m						
	(FORCE) WT. OF STRING	daN						

REMARKS

DRILLER [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial [initials]	Initial [initials]	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION Ranger NOTA Creek

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
0	11.9	11.9		FUEL @ 0600 11750								
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00				Thaw Kelly bar + spinner + install Kelly hose
				repair hyd lines
				get water circ
				plum in Hydro + HCR on diverter
	0800	8	1	rig up divert line
0800	0830	.50	1	Get Pump #1 Pump #2 circ through bleeders
0830	1030	2.0	21	Pick up BHA. Make up Bit + BHA.
10.30	11.00	.50	22	Held Pre Spud Safety meeting w/ Engineer + Crew.
11:00	12:00	1.0	2	Circ through kelly + Drill to bottom of Conductor
				Problems exiting Conductor Barrel

BOILER HOURS

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
11.9	12.15	.25		TR	110		3400	152	100	152	100	
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	1415	2.25	23	Temp to drill through bottom of Conductor
1415	1515	1.0	8	Work on SCR, work on Sub Panel
1515	1530	.25	7	Rig Service
1530	18:00	3.50	23	Temp to drill through bottom of Conductor
18:00	20:30	2.50	6	Trip
20:30	21:00	.50	6	install shocksub + Jars
21:00	24:00	3.00	23	Temp to drill

BOILER HOURS

Matt Sekura

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek C17	EL 390	C17 65 10-12G-		97 12 25 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger oil	Shehtah Drilling LTD	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No	PUMP No	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½ XH	232	1	National	8 P 80	216
						2			

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.25	
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	wait on mill	11.50	2
22	Mill	.25	7.75
23	Flow Nipple		1.75
24	COMPLETION A. PERF'TNG		.50
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS			

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK	12	12

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	4.4	m
	BS	1.10	m
	STB RMR Sdc OD	2.62	m
	D.C. JAR OD	4.92	m
	STB RMR Bell Sub OD	.93	m
	D.C. X/O ID OD	.50	m
	STB RMR DHA OD	10.51	m
	STANDS D.P.		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	1	2A
SIZE	444	4572
MFG.	Enterra	ENTERRA
TYPE	80892S	MILL
JETS mm	23.4 X	
SER. No.		
DEPTH OUT		12.63
DEPTH IN		12.14
TOTAL METRES DRILLED		.49
TOTAL HRS RUN		
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD

TIME	2200	0200	0600
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY	43	45	44
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH	9.0	9.0	9.0
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Gel	10 SX		

REMARKS

DRILLER Matt Sakura

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT MILL	1.10	m
	BS	1.51	m
	STB RMR AR OD	4.92	m
	D.C. Bell Sub OD	.93	m
	STB RMR X/O OD	.50	m
	D.C. ID OD		m
	STB RMR OD		m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	2A	
SIZE	444.5	
MFG.	REED	
TYPE	413J	
JETS mm	3X15.9	
SER. No.	808925	
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS RUN		
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD

TIME	11:00	18:00	2400
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY	41	50	50
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH	9.5	9.5	9.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
GEL	15 SX		

REMARKS

DRILLER Brian Seale

SECOND TOUR

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]
(2) Detailed Inspection-Weekly (using check list)	Initial [illegible]	Initial [illegible]
(3) H_2S Signs Posted (if required)	Initial [illegible]	Initial [illegible]

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial [illegible]
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial [illegible]
(3) Mast Inspected Before Raising or Lowering	Initial [illegible]

LEGAL LAND DESCRIPTION Ranger Nota Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28-6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR'EL. P COM'D. C
12:15	12:15			FUEL @ 0600 12896								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS 12 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	Rig service function Hydro + HCR
00:15	00:30	.25	22	Temp to Drill
				Held saftey meetting maitainace, Goodhouse Keeping + [redacted]
00:30	1200	11.5	21	Circ wait on mill
				Boilerhs 12 hours

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR'EL. P COM'D. C
12 15	12 20	.5					2500	152	100	152	120	
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS 12 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1400	2	21	Circ & wait on Mill
1400	1500	1	23	Dismantle Flow Nipple
1500	1530	.50	24	Install Mill Below Table
1530	1615	.75	23	Install Flow Nipple
1615	24:00	7.3/4	22	Mill Conductor
	12			

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek	FL 390	C17 65-10-126	26	97 Mo. Day

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	Shehtah Drilling LTD	

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Tom

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½FH	232	1	National	HP 80	216
						2	National	HP 80	

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	1.25	4.50
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	.75	
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		7.25
20	DIR. WORK		
21	Mill	6	
22	Workover Hoist	1.75	
23	W.O. Magnet	2.0	
COMPLETION A	PERF'R'T'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	Bit Mill	1.50 m
	Bit Sub	1.80
	STB RMR Sac OD	4.92 m
	DC Bell sub OD	.93 m
	STB RMR X/O OD	.50 m
	D.C. ID OD	m
	STB RMR OD	m
	BHA	10.51
	STANDS D.P.	m
	SINGLES DP	m
	KELLY DOWN	3.12 m
	TOTAL	12.63 m
	(FORCE) WT. OF STRING	7000 daN

BIT RECORD		
BIT No.	3A	
SIZE	444.5	
MFG.	Reed	
TYPE	135	
JETS mm	3x15.9	
SER. No.	808925	
DEPTH OUT		
DEPTH IN	Ø	
TOTAL METRES DRILLED	15.50	
TOTAL HRS. RUN		2.25
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	0000	0400	
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY	50	50	
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH	9.0	9.0	
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS Magnet Assy. Magnet - .59
Bit sub - .88
Bell sub .77
X/O = .44
2 D.P. - 14.73
21.46

DRILLER Matt Sakura

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
1	BIT	.44 m
1	Bit Sub	1.10
1	STB RMR Sac OD	2.62 m
1	DC ID Mrs OD	4.92 m
1	STB RMR Bell sub OD	.78 m
1	D.C. ID X/O OD	.50 m
	STB RMR OD	m
	STANDS DP	m
	SINGLES DP	m
	KELLY DOWN	8.29 m
	TOTAL	18.65 m
	(FORCE) WT. OF STRING	7,000 daN

BIT RECORD		
BIT No.	3A	
SIZE	444.5	
MFG.	Reed	
TYPE	135	
JETS mm	3x15.9	
SER. No.	808925	
DEPTH OUT		
DEPTH IN	0	
TOTAL METRES DRILLED	18.65	
TOTAL HRS. RUN	6.75	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	16:30	18:30	2000
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY	50	52	53
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH	9.0	9.0	9.0
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
GEL	5 SX		

REMARKS

DRILLER Brian Cook

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION Ranger Nota Creek C-17

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S. PAR.EL.P. COM'D.C
12.20	12.65	45	R	Fuel @ 0600 - 9457	45		2500	152	180	152	180	
12.65	15.50	2.85	P.									
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	Rig service
00:15	6:15	6	21	Mill conductor 1263
6.15				Dismantal flow tee Break off ~~Bit~~ Mill
	8:00	1.75	22	Make up Flow Nipple.
8:00	845	.75	6	Break out Old BHA make up New BHA.
845	10:00	1.25	2	Temp to Drill. 15.5 mKB
10:00	12:00	2.0	23	W.O. MAGNET. & Circ.

BOILER HOURS 12 ~~+~~ 2

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S. PAR.EL.P. COM'D.C
15.50	18.65	3.15					4500	152	130	152	130	P
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1500	3	19	Fish w/ magnet to Retrieve Conductor Pieces
1500	1515	.25	7	Rig Service
1515	15:30	.25	19	Fish w/magnet to Retrieve Conductor Pieces
15:30	16:00	.50	2	~~Bit~~ Attempt To Drill F/15.50 To 15.85
16:00	16:15	.25	19	Fish w/magnet for conductor pieces.
16:15	18:30	2.25	2	Attempt To Drill F/15.85 To 16.25
18:30	21:30	3	19	Fish w/magnet for conductor Pieces.
21:30	22:30	1	2	Attempt To Drill F/16.25 To 16.40
22:30	23:15	.75	19	~~Attempt To~~ Fish For conductor pieces.
23:15	24:00	.75	2	Drill F/16.40 To 18.65

BOILER HOURS 12 ~~+~~ 2.

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek C-17	EL-390	C17 GS-10-126		97 12 27

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	SHEHTAH Drilling LTD	1

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.4	E	156	4½xH	232	1	National	HP 80	216
						2	National	HP 80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	7.3/4	8
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		1.25
6	TRIPS	2.1/4	
7	LUBRICATE RIG	1/4	
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	1 1/4	1
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	CONN	.1/2	1
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	44 m	BIT No.	3A	4A	TIME	0300	0700	1100
	BS	1.10	SIZE	444.5	444.5	DENSITY kg/m³		10.80	1080
	STB RMR SS OD	2.62 m	MFG.	Reed	Hughes	PRESSURE GRADIENT			
	DC JAR OD	4.92 m	TYPE	13J	PG3	VISCOSITY	55	50	50
	STB RMR Bell OD	.78 m	JETS mm	3x15.9	3x15.9	PV YP mPa•s Pa	/	/	/
	D.C. ID 4½ OD	.50 m	SER. No.	809925	X74G	GEL STR. Pa	/	/	/
2	STB RMR OD	18.43 m	DEPTH OUT	28		WATER LOSS cm³			
			DEPTH IN	0	28m	pH	9.0	9.0	9.0
			TOTAL METRES DRILLED	28	7	SOLIDS %			
			TOTAL HRS. RUN	12.25	2.5				
	STANDS D P	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	5.80 m	PRESSURE DROP kPa						
	TOTAL	35 m							
	(FORCE) WT. OF STRING	11.000 daN							

REMARKS 2.5 7.11

DRILLER Matt Sakura

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	.44 m	BIT No.	4A		TIME	1300	2100	
	BS.	1.10	SIZE	444.5		DENSITY kg/m³	1080	1085	
	STB RMR SS OD	2.62 m	MFG.	Hughes		PRESSURE GRADIENT			
	D.C. ID Sars OD	4.92 m	TYPE	PG-3		VISCOSITY	48	50	
	STB RMR Bell OD	.78 m	JETS mm	3x15.9		PV YP mPa•s Pa	/	/	/
6	D.C. ID collar OD	54.96 m	SER. No.	X74G		GEL STR. Pa	/	/	/
	STB RMR /O OD	50 m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN	28		pH	9.0	9.5	
			TOTAL METRES DRILLED	50		SOLIDS %			
			TOTAL HRS. RUN						
	STANDS DP	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa			Gel	185x		
	TOTAL	78.31 m				Caustic	15x		
	(FORCE) WT. OF STRING	14000 daN							

REMARKS Start centifuge @ 2000

In. 1085 - Over - 1060 - under - 1820

DRILLER Brian Fowler

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 1047

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	OR. D. RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
15.65	35	19.35		FUEL @ 0600 11750	100	8/8	4600	152	130	152	130	P
							REDUCED PUMP SPEED	1400	152	130		RC

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	23.16	1/4°							
	28.00	3/8°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	Rig Service
00:15	3:45	3.50	2	Drill 444.5 mm Fr. 15.65m
3:45	4:45	1	10	Su. install 9" + survey 2316 = 1/6 + install Low Hall manifold
4:45	6:30	1.75	2	Drill 444.5mm To
6:30	8:45	2.25	6	Change bit - Trip.
8:45	10:15	1.5	2	Drill 444.5mm Hole Fr. 28m To - 32m.
10:15	10:45	.50	21	RAT HOLE CONNECTION.
10:45	11:00	.25	10	Survey at 28m - 3/8 degree.
11:00	12:00	1.0	2.	Drill 444.5mm Hole Fr. 32m To 35m.

BOILER HOURS 12 Hrs 1 + 2

METRES DRILLED FROM	TO	OR. D. RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
35m	78	43			100	8/8	4600	152	130	152	130	P
							REDUCED PUMP SPEED	1400	152	130		SRC

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	37m	3/8°	56m	3/4					
	46	1/8	74	1/8					

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:45	1.75	2	Drill 444.5mm Hole Fr. 35m To 42m
13:45	14:15	.50	5	Circ Hole Clean, Try to clean tight spot for Connection
14:15	14:45	.50	21	Rat Hole Connection
14:45	15:00	.25	10	Survey at 37m - 3/8 degree
15:00	16:30	1.50	2.	Drill 444.5mm Hole Fr. 42m - 50m
16:30	16:45	.25	5	Circ Hole Clean.
16:45	17:15	.50	21	Rat Hole Connection
17:15	17:30	.25	10	Survey at 46m 3/8°
17:30	22:30	5	2	Drill 444.5mm Hole Fr 50m To 60m
22:30	24:00	1 1/2	5/21/10	Circ & Rat Hole Conn, Survey 50 code 10

BOILER HOURS 12 Hrs 1 + 2

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek C-17	EL-390	C17 65-10-126		97 12 28

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	Shehtah Drilling LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	National	HP 80	216
						2	National	HP 80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	4.75	4.50
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.5	1.50
6	TRIPS	5	
7	LUBRICATE RIG	¼	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.5	.75
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Rat hole conn	1	
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD		
	BIT	.30 m	BIT No.	4A	5A	TIME	0200	11:00
	Bit sub	1.10	SIZE	444.5	311	DENSITY kg/m³	1070	1080
	STB RMR SS OD	2.62 m	MFG.	Hughes	Hughes	PRESSURE GRADIENT		
3	D.C. 228 mm ID 228 OD	27.20 m	TYPE	PG-3	J2	VISCOSITY	54	53
1	STB RMR Jars OD	4.92 m	JETS mm	3x15.9	3x20	PV YP mPa•s Pa	/	/ /
3	D.C. 228 ID 228 OD	27.76 m	SER. No.	V00BA	B35CG	GEL STR. Pa	/	/ /
1	STB RMR Bell OD	.78 m	DEPTH OUT	96		WATER LOSS cm³		
3	x 171mm	27.52	DEPTH IN	28	96	pH	9.5	8.5
1	½	.50	TOTAL METRES DRILLED	96	8	SOLIDS %		
		92.70	TOTAL HRS. RUN	23.75	2.5			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED		
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	11.30 m	PRESSURE DROP kPa			Gel	30sx	
	TOTAL	104 m				Soda Ash	1/2 sx	
	(FORCE) WT. OF STRING	22.000 daN						

REMARKS

DRILLER Matt Sekura

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD		
	BIT	.30 m	BIT No.	5A		TIME	14:30	18:30
1	Bit sub	1.10	SIZE	311		DENSITY kg/m³	1075	1080
1	STB RMR SS OD	2.62 m	MFG.	Hughes		PRESSURE GRADIENT		
3	D.C. 228 ID 228 OD	27.20 m	TYPE	J2		VISCOSITY	70	63
1	STB RMR Jar OD	4.92 m	JETS mm	3x20		PV YP mPa•s Pa	/	/ /
3	D.C. 228 ID 228 OD	27.76 m	SER. No.	B35C2		GEL STR. Pa	/	/ /
1	STB RMR Bell OD	.78 m	DEPTH OUT			WATER LOSS cm³		
5	D.C. 171mm	46.31	DEPTH IN	96		pH	9.0	9.0
1	½	.50	TOTAL METRES DRILLED	47		SOLIDS %		
			TOTAL HRS. RUN	12				
	STANDS DP	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED		
1	SINGLES DP	9.42 m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa			GEL	15 SX	
	TOTAL	133.73 m				Soda Ash	1/2 SX	
	(FORCE) WT. OF STRING	23,000 daN						

REMARKS

DRILLER Bruce Gale

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION C17 65-10-126

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 1180

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D. RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
78	104	26		Fuel @ 0600-6591	150	3/4	6100	152	130	152	130	P.
					REDUCED PUMP SPEED		1700	152				RC.

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
	83	1½°							
	94	2.1°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	¼	7	Rig service
00:15	1:15	1	2/5	Drill + ~~ciric~~ 444 mm hole 4-5 on bit
1:15	2:15	1	2/10/5	Survey's + circ + conn 120 rpm Fan hole
2:15	3:30	1.¼	2	~~Circ~~ Drill
3:30	4:30	1	2/5/10	Circ + Survey + conn
4:30	9.30	5	6	Trip 444 mm bit
9:30	12:00	2.5	2	Drill Fr. 96m To 104m. Deviation prob. 1-2 on bit 150 rpm Fan hole

BOILER HOURS 12 Hrs 1-2

METRES DRILLED FROM	TO	DR. D. RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
104	143	39		Fuel @	150	3/4	5100	152	115	152	115	P
					REDUCED PUMP SPEED		1300	152	115			SRC

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
	103.5	2.2°		131	1.5				
	113	2.3°		122	1.5				

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	.25	2	Drill Fr 104 - 105 m Deviation problem 1-2 on bit
12:15	12:30	.25	7	Rig service 150 RPM
12:30	16:30	4	2	Drill Fr 105m - 115 Fan hole
16:30	17:00	.50	5/10	circ + survey
17:00	19:30	2.50	2	Drill - 115 - 124 2-4 on bit RPM 150
19:30	20:15	.75	5/10	circ + survey 1.5 degrees survey
20:15	22:00	1.75	2	Drill - 124 - 133
22:00	23:00	1	5 10	circ + survey
23:00	2400	1	2	Drill 133 to
		12		

BOILER HOURS 12 Hrs 1-2.

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek C-17 EL 390		C-17 GS-10-126		971229

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	Shehtah Drilling LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No	PUMP No	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½H	232	1	National	HP 80	216
						2	National	HP 80	216

LEGEND — All lengths expressed in metres to two decimal places.

Metric expressions: mud density = kilogram per cubic metre (kg/m³); pump-stroke length = millimetre (mm); weight of string = decanewton (daN); weight on bit: indicator will record decanewton; linear mass = kilogram per metre (kg/m); viscosity = second per litre (s/L); flow rate = cubic metre per minute (m³/min); pressure gradient = kilopascal per metre (kPa/m); yield point = pascal (Pa); plastic viscosity = millipascal second (mPa•s); gel strength = pascal (Pa); work completed by wire line = megajoule (MJ); inside diameter and outside diameter = millimetre (mm); pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION C-17 GS-10-12

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT

WIRE LINE RECORD — REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: ~~1150~~ 1270

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR.EL.P COMP.D.C
143	162	19		Fuel @ 0600 ~~1467~~	150	2000	5700	152	115	152	115	
					REDUCED PUMP SPEED							

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
148	2°							
150	1°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	Rig service
00:15	1:00	.75	5/10	Circ + Survey
1:00	5:15	4.25	2	Fan 311mm hole due to deviation 2%
~~5:15~~				~~First survey at 153~~ 155 RPM
5:15	6:45	1.5	8	Rig out of fuel. Restart Generators
6:45	7:30	.75	5/10	Circ + Survey.
7:30	11:45	4.25	2	Drill 311mm Hole Fr. 153m - 162m
11:45	12:00	.25	5	Circ Hole Clean.

BOILER HOURS 12 Hrs 1 & 2

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	8.50	5
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.75	.75
6	TRIPS		4.75
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG	1.50	
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	1	.75
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Blow Kelly		.50
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.30	m
1	B.+sub	1.10	
1	STB RMR SS OD	2.62	m
3	D.C. ID 228 OD	27.20	m
1	STB RMR Jar OD	4.92	m
3	D.C. ID 228 OD	27.76	m
1	STB RMR Bell OD	.78	m
6	171mm DC	55.73	
1	X/O	.50	
1	STANDS D.P.	28.72	m
	SINGLES DP		m
	KELLY DOWN	12.37	m
	TOTAL	162	m
	(FORCE) WT. OF STRING	26000	daN

BIT RECORD		
BIT No.	5A	
SIZE	311	
MFG.	Hughes	
TYPE	J2	
JETS mm	3x20	
SER. No.	B35CG	
DEPTH OUT	162	
DEPTH IN	96	
TOTAL METRES DRILLED	66	
TOTAL HRS. RUN	20.5	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD			
TIME	0600	0400	10:00
DENSITY kg/m³	1080	1080	1090
PRESSURE GRADIENT			
VISCOSITY	64	63	59
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH	8.0	8.5	8.5
SOLIDS %			

MUD & CHEMICALS ADDED TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER Matt Sakura

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
1	BIT 444	.44	m
1	Bit sub	1.51	
1	STB RMR SS OD	2.62	m
3	D.C. ID 228 OD	27.20	m
1	STB RMR JAR OD	4.92	m
3	D.C. ID 228 OD	27.74	m
1	STB RMR Bell OD	.78	m
	X/O	.50	
5	171	46.31	
	STANDS DP		m
	SINGLES DP		m
1	KELLY DOWN	8.80	m
	TOTAL	120.82	m
	(FORCE) WT. OF STRING	27000	daN

BIT RECORD		
BIT No.	6ARR4	
SIZE	444.5	
MFG.	Hughes	
TYPE	PG-3	
JETS mm	3x15.9	
SER. No.	V00BA	
DEPTH OUT		
DEPTH IN	96	
TOTAL METRES DRILLED	120	
TOTAL HRS. RUN	22.75	
COND. 1/8's T/B/GAGE	2 2 I	
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD			
TIME	2000	2400	0530
DENSITY kg/m³	1085	1090	1090
PRESSURE GRADIENT			
VISCOSITY	63	73	66
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH	8.0	9.0	8.5
SOLIDS %			

MUD & CHEMICALS ADDED TYPE	AMT. kg	TYPE	AMT. kg
GEL	8 sx		
Caustic	1 sx		

REMARKS Bit guage 2-1-1

DRILLER Brian Gordon

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR.EL.P COMP.D.C
96	120	24			150	2000	5000	152	115	152	115	P
					REDUCED PUMP SPEED		1300	152	115			SRC

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION
159	1.9°							
103	2.1							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12.00	1230	.50	5/10	Survey + Circ.
12:30	1300	.50	21	~~Stem~~ Blow kelly, Steam blocks, elevators to trip.
13:00	1315	.25	7	Rig Service.
13:15	1515	2	6	Lay down D.P. + POOH TO Change Bit
1515	1800	2.75	6	Change 311m Bit To 444mm Bit and R.I.H.
1800	2015	2.25	2	Drill out 311mm hole To 444.5 mm Hole
20:15	20:45	.50	5/10	Circ + survey
20:45	22:45	2	2	Drill 444.5 hole Fan due to deviation
22:45	23:15	1.50	5	Circ + condition + connection
23:15	24.00	.75	2	Fan 444.5 hole Drill to 120.82

BOILER HOURS 12 Hrs. #1 & 2

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota creek C17	EL 390	C17 65-10-12G		97 12 30

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	Shehtah Drilling	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
L. Bug. Jack Bug	Neil Greene

D.P. SIZE	kg/m	GRADE	TOOL JT. O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	National	HP 80	216
						2	National	HP80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	9.5	
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	1	
6	TRIPS		
7	LUBRICATE RIG	.25	
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	1	
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Safety meet	.25	
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS			

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	44 m
1	Bit sub	1.51
1	STB RMR SS OD	2.62 m
3	6" D.C. ID 2.28 OD	27.20 m
1	STB RMR JAR OD	4.92 m
3	6" D.C. ID 2.28 OD	27.74 m
1	STB RMR Bells OD	.78 m
1	X/O	.50
	BHA	65.71
2	STANDS DP 127mm	55.81 m
2	SINGLES DP	19.47 m
	KELLY DOWN	12.01 m
	TOTAL	153 m
	(FORCE) WT. OF STRING	26.000 daN

BIT RECORD		MUD RECORD	
BIT No.	6ARR4	TIME	11:00
SIZE	444.5	DENSITY kg/m³	1090
MFG.	Hughes	PRESSURE GRADIENT	
TYPE	PG-3	VISCOSITY	55
JETS mm	3X15.9	PV mPa•s / YP Pa	/ /
SER. No.	V008A	GEL STR. Pa	/ /
DEPTH OUT		WATER LOSS cm³	
DEPTH IN	96	pH	9.0
TOTAL METRES DRILLED	149	SOLIDS %	
TOTAL HRS RUN	35		
COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
PRESSURE DROP kPa			

REMARKS Cent. Over - 1080 - Under - 1995 WT

Tested Gas Detector's on Rig. All OKAY

DRILLER

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.44 m
1	Bit sub	1.51
1	STB RMR SS OD	2.62 m
3	6" D.C. ID 2.28 OD	27.20 m
1	STB RMR JAR OD	4.92 m
3	6" D.C. ID 2.28 OD	27.74 m
1	STB RMR Bells OD	.78 m
1	X/O	.50
	BHA	65.71
2	STANDS DP 127mm	55.81 m
4	SINGLES DP	37.96 m
	KELLY DOWN	4.78 m
	TOTAL	164.22 m
	(FORCE) WT. OF STRING	26.000 daN

BIT RECORD		MUD RECORD	
BIT No.	6ARR4	TIME	14:30
SIZE	444.5	DENSITY kg/m³	1100
MFG.	Hughes	PRESSURE GRADIENT	
TYPE	PG-3	VISCOSITY	66
JETS mm	3X15.9	PV mPa•s / YP Pa	/ /
SER. No.	V008A	GEL STR. Pa	/ /
DEPTH OUT	164	WATER LOSS cm³	
DEPTH IN	96	pH	9.0
TOTAL METRES DRILLED	160	SOLIDS %	
TOTAL HRS. RUN	39.25		
COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
PRESSURE DROP kPa		GEL / 17 SX	

REMARKS. Fuel delivered at 1400 Rig tank before fuel up - 9938L.

DRILLER Brian Eaks

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION C17-65-10-12

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT	1332
CUMULATIVE MEGAJOULES	69943

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR'EL P COM'D. C
120	153	33		FUEL @ 0600 12036	170	7/8	4600	152	120	152	120	P
				CAMP @ 0800 - 1.9 meter								
					REDUCED PUMP SPEED							

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
122	2 1/2°	140	1°					
131	2.8	150	1.1					

BOILER HOURS 12 1-2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	01:15	1.25	2	Fan 444.5 hole to 124
1:15	1:30	.25	7	Rig service - Grease swivel + blocks
1:30	2:00	.50	5/10	Cir + surveys
2:00	3:00	1	2	Fan 444.5 hole 134.
3:00	3:30	.50	5/10	cir + survey
3:30	6:45	3.25	2	Fan 444.5 hole reduce wt 1-2 increase RPM 170 Due to deviation
645	7:30	.75	5/10	Circ + survey
730	11:15	3.75	2	Fan 311mm Hole To 444.5mm Hole - 143m - 153
1115	11:30	.25	21	Held Safety meeting w/crew + Engineer's.
1130	1145	.25	10	Survey
1145	1200	.25	2	Fan 311mm Hole To 444.5 mm Hole Fr 153m

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR'EL P COM'D. C
153	164				170	7/8	4610	152	122	152	122	P
~~159~~												
					REDUCED PUMP SPEED							

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
159	1.9		48 ~~32~~.5	.7	338 AZ	68.9	1.2	337
			95.5	2.8	333	124.4	2	341
						152.6	2.1	337

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	15:30	3.50	2	Fan 311mm Hole To 444.5mm Hole to 163
15:30	16:15	.75	5/10	Circ + Survey
16:15	17:30	.75	2	Fan 311mm Hole to 444.5m Hole 163-164
17:30	18:00	.50	5/10	Circ + condition
18:00	19:00	1	6	Trip out
19:00	21:00	2	6	Lay down JAR + S.S pick up monels
21:00	23:45	2.75	6	DIRECTIONAL SURVEY IN HOLE R.I.H.
23:45	24:00	.25	5/10	CIRCULATE + CONDITION HOLE

FORM 2T6m APPROVAL PENDING APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
C 17-EL-390 Ranger Nota Creek	C17-EL-390	C17 65-10-12-G		97/12/31 Yr. Mo. Day

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	Shebah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	Mel Speers

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.25	
6	TRIPS	2.25	
7	LUBRICATE RIG	.25	
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT	8.50	3.50
13	WAIT ON CEMENT		8.50
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Safety meet.	.75	
22	~~WOC~~.		
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	10:00
			SIZE		DENSITY kg/m³	1095
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	82
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	9.0
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER Brian Eahn

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER Mel Sakura

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Sumitomo	81	K55	14	164.8		164

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 1519

CUMULATIVE MEGAJOULES: 70150

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL. P COM.D. C
				fuel 2 [illegible] - 120316								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0015	.25	7	Rig Service.
0015	0030	.25	5	Circ & cond. Mud.
0030	0200	1.50	6	Blow Kelly, Steam equipment + P.O.O.H To Run Csg.
0200	0245	.75	6	Lay Down Bit, Bitsub, Bellsub, Monel, Jars
0245	0345	1.0	12	Rig up to Run Csg.
0345	0400	.25	21	Held Pre Csg. Safety meeting w/ crew + tong hand.
0400				Put on Shoe + weld. Put on Float collar + weld.
	9:30	5½	12	+ Run Csg.
9:30	12:00	2.50	12/21	Circ casing + safety meeting .50
		12		

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL. P COM.D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	~~13:30~~	1.50		Rig to + cement casing work on cement truck
1330	1530	2.50	12	CEMENT 339 mm CASING RB Hold pressure on plug, after cementing.
1530	2400	8.50	12	W.O.C. AND DIG CELLAR

100% EXCESS

CEMENTED WITH 29 TONNES (21m³) ARTIC SET WITH .74% D71 + .5% D65 + .5% B71. DISPLACED WITH 12.2 m³ of FRESH WATER. FLOATS DID NOT HOLD 1000 KPA PRESSURE HOLD BACK BLED off IN INCREMENTS of 200 KPA OVER 2 HOURS. 6m³ Good CEMENT RETURNS. ANNULAS FELL BACK DOWN ANNULAS. Leo. Rand

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek	C17-EL-390	C17 65-10-12-G		98 01 01 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	Shebtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
L.B.R.	N. Spears

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	National	8P80	216
						2	National	8P80	216

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Summit OMO	81	K55	14	164.8	5.03	164

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 1519

CUMULATIVE MEGAJOULES: 70150

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.	12	12
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG.			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS D.P.	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa			INVENTORY CORRECTION			
	TOTAL	m				GEL	22		
	(FORCE) WT. OF STRING	daN				CAUSTIC	1		

REMARKS

DRILLER Brian Eccles

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD			
	BIT	m	BIT No.			TIME			
			SIZE			DENSITY kg/m³			
	STB RMR OD	m	MFG.			PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE			VISCOSITY			
	STB RMR OD	m	JETS mm			PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.			GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT			WATER LOSS cm³			
			DEPTH IN			pH			
			TOTAL METRES DRILLED			SOLIDS %			
			TOTAL HRS. RUN						
	STANDS DP	m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa						
	TOTAL	m							
	(FORCE) WT. OF STRING	daN							

REMARKS

DRILLER Matt Sekma

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR'EL.P COM'D.C
				FUEL @6:00 1261.0L								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000				Dig Cellar, Unbolt Diverter, Raise for welder.
	0400			Prepare to lay out Diverter and nipple up.
0400				Cut csg. Lay down Flow T. Lay out Diverter.
				Work on Mud Tanks. Shaker Screens.
				cut conductor + csg + weld on bowl + let cool
	1200			and test 7000 KPA @ 15 min

BOILER HOURS

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S. PAR'EL.P COM'D.C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	2400	12	14.	Nipple up 352 mm Bop STACK
				install lower pipe + HCR, upper pipe
				install Hydro

BOILER HOURS

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek	C17-EL-370	C17-65-10-12-6		9801 02 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil	Shehtah Drilling Ltd.	I E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	Ned Speers

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG		
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.	11	
15	TEST B.O.P	1	8.5
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Winterize		3.5
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa*s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

DRILLER Brian Eaks

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa*s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS Camp fuel at 2200 - 3/4 full - big tank
Small Generator fuel full.

DRILLER Matt Sokwa

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Summit ONO	81	K55	14	164.8	5.03	164

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 1519

CUMULATIVE MEGAJOULES 70150

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
				Fuel to 6500-6511 L								
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	11:00	11	12	Finish nippling up Bop's, work on HCR Line
11:00	12:00	~~1~~	~~15~~	to Manifold Shack.
11:00	12:00	1	15	Pressure test valves 1, 2, 3 & 4 in manifold
				1700 Low, 14000 High, 10 mins on each
				All Valves Individually Tested on all
				Pressure Testing. Pressure Tests charted
				and observed By Lee Brazel

BOILER HOURS

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00			15	Pressure test valves 5, 6, 7, 8. in manifold
				1700 Low, 14000 High + chokes, ~~HCR~~ all
				valves in manifold shack, Remote controll
	2030	~~2030~~ 8.5	15	HCR - Inside kill line valve, Blind Rams,
2030				~~Re~~ WORK ON BLOCKS, Pump warm oil in grease ZER
	2400	3.5	21	INSULATE MUD LINES + Plastic, Liner

BOILER HOURS

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek	217-EL-390	C17-65-10-12-6		98 01 03

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LIMITED	Shentah Drilling Ltd	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
LBR	N Spears

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	National	8P80	216
						2	National	8P80	216

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	339	320	Sunair OHO	81	K55	14	164.8	5.03	164

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 1629

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		1
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS	5	
7	LUBRICATE RIG		.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.	1.50	7.25
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	winterizing	5.50	
22	drill mouse hole		2.5
23	Re Insulate		3.1
COMPLETION A	PERF'R'T'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS		12	12.

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT		.30 m
1	Bitsub		1.10
1	STB RMR SS.	OD	2.62 m
3	D.C. ID 228	OD	27.20 m
1	STB RMR Jars	OD	4.92 m
3	D.C. ID 228	OD	27.76 m
1	STB RMR Bell	OD	.78 m
3	Std. 171 x		84.04
			148.72
	STANDS D.P.		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD	
BIT No.	7ARR
SIZE	311
MFG.	Hughes
TYPE	J2
JETS mm	20 20 20
SER. No.	B35C6
DEPTH OUT	
DEPTH IN	164
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD	
TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa*s / YP Pa	/ / /
GEL STR. Pa	/ / /
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER: Brian Such

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT		.30 m
1	Bitsub		1.10
1	STB RMR SS	OD	2.62 m
3	D.C. ID 228	OD	27.20 m
1	STB RMR JAR	OD	4.92 m
3	D.C. ID 228	OD	27.76 m
1	STB RMR Bell	OD	.78 m
3	Std. 171 x		84.04
			148.72
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD	
BIT No.	7ARR
SIZE	311
MFG.	Hughes
TYPE	J2
JETS mm	20 20 20
SER. No.	B35C6
DEPTH OUT	
DEPTH IN	164
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD	
TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa*s / YP Pa	/ / /
GEL STR. Pa	/ / /
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000				worked on winterizing all lines to & from manifold shack. cleaned tools & hardware garbage, and general housekeeping. to prepare to drill out. REPAIRS TO BLOCKS
	0530	5.5	21	
0530	10:30	5	6	Make up BHA + RIH.
10:30				Pressure test low pipe rams + stabbing valve's
	12:00	1.50	15	1400 Low 14000 High
	12 hours			Blocks would not turn (5.5 hours to repair)

BOILER HOURS: 12 HRS 1+2.

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. LINER SIZE	STROKES per min	PUMP No. LINER SIZE	STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	.25	7	Rig service, Grease swivel, add oil,
12:15				Pressure test upper pipe rams + inside Bop
				Kill line valves, work on check in kill line,
				change out upper kelly cock, Pressure test
	1930	1.25	15	upper Kelly Cock.
1930	2200	2.5		Put on Kelly Hose, Pick up std. D.C. RIH.
			22	Pickup kelly, make up 12¼ bit + drill mouse hole.
2200	2300	1	2	Tag Cement at 145 m. + Drill Cement (Frole up)
2300	2400	1	23	Reinsulate Manifold line + Degasser line

BOILER HOURS: 12 HRS 1+2.

FORM 2T6m APPROVAL PENDING APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek	C17-EL-390	C-17-65-10-12-6		98 01 04 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shehtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½IF	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	4.50	7.25
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		4
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		.50
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.	6.00	
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Reinsulate	1.25	
22	Drill Float, Shoe	2.00	
23	Displace	2.00	
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS	
TOTAL MUD COST	

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.30	m
1	Bitsub	1.10	
1	STB RMR SS OD	2.62	m
3	D.C. ID 228 OD	27.20	m
1	STB RMR JAR OD	4.92	m
3	D.C. ID 228 OD	27.76	m
1	STB RMR Bell OD	.78	m
12	171 Dc	108.16	
1	X/O	.50	
	BHA	168.34	
	STANDS D.P.		m
	SINGLES DP		m
	KELLY DOWN	8.00	m
	TOTAL	178.84	m

(FORCE) WT. OF STRING 34,000 daN

BIT RECORD

BIT No.	7 JARR
SIZE	311
MFG.	HUGHES
TYPE	J2
JETS mm	3X20
SER. No.	B3556
DEPTH OUT	
DEPTH IN	164
TOTAL METRES DRILLED	10
TOTAL HRS. RUN	4.5
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS

DRILLER Brian Cook

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.30	m
	Bitsub	1.10	
	STB RMR SS OD	2.62	m
3	D.C. ID 228 OD	27.20	m
1	STB RMR JAR OD	4.92	m
3	D.C. ID 228 OD	27.76	m
1	STB RMR Bell OD	.78	m
12	171 Dc	112.77	
1	X/O	.50	
	BHA	177.95	
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN	8.05	m
	TOTAL	186	m

(FORCE) WT. OF STRING 34000 daN

BIT RECORD

BIT No.	7 JARR
SIZE	311
MFG.	Hughes
TYPE	J2
JETS mm	20 20 20
SER. No.	B3556
DEPTH OUT	
DEPTH IN	164
TOTAL METRES DRILLED	22
TOTAL HRS. RUN	11.75
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	13:30	2200	
DENSITY kg/m³	1050	1080	
PRESSURE GRADIENT			
VISCOSITY	33	43	
PV YP mPa*s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH	10.5	10.0	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Soda ASH	3 sks		
BARITE	168		
GEL	93		

REMARKS Set up Brakes, Checked all linkages & welds.

DRILLER Matt Sakura

SECOND TOUR

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Sumitomo	81	K55	14	164.8	5.03	164

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 1777

CUMULATIVE MEGAJOULES 69638

METRES DRILLED

FROM	TO	DR. D RM R CORE C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
164	174	10		Fuel 0000-1000	140	59	6500	152	120	152	120	P
					REDUCED PUMP SPEED		1300	152	120			SRC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0115	1.25	21	Reinsulate Manifold Line & Degasser (Froze up)
0115	0130	.25	7	Rig Service
0130	0500	3.50	22	Drillout Float collar, Cement + Shoe.
0500	8:30	3.50	2	Drill Fr / 164m - 171
8:30	10:30	2:00	2	Displace mud tanks
10:30	11:00	.50	15	Leak off test on formation To 23 KPA/m Stopped
11:00	12:00	1.00	2	Drill fr / 171 to 174

METRES DRILLED

FROM	TO	DR. D RM R CORE C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
174	186	12			150	6	6100	152	110	152	110	P
					REDUCED PUMP SPEED		1220	152	110			SRC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
177	1.75							

BOILER HOURS 12HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	.25	7	Rig service
12:15	14:00	1.75	2	Drill 174 to 181
14:00	14:50	.50	10	Sa Circ + survey @ 177
14:50	19:30	5.0	2	Drill fr/ 181 to 186m
19:30	23:30	4.0	15	Circ & Cond. mud (weight up)
23:30	24:00	.50	2	Drill Fr 186m

FORM 2T6m APPROVAL PENDING APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Noto Creek	B17-EL-390	C-17-65-10-12-G		98 01 05 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd	Shehtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
L. Bal	M Speers.

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS		
CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1 RIG UP AND TEAR DOWN		
2 DRILL ACTUAL	10	11.25
3 REAMING		
4 CORING		
5 CONDITION MUD & CIRCULATE		
6 TRIPS		
7 LUBRICATE RIG	.25	.25
8 REPAIR RIG		
9 CUT OFF DRILLING LINE		
10 DEVIATION SURVEY		.50
11 WIRE LINE LOGS		
12 RUN CASING & CEMENT		
13 WAIT ON CEMENT		
14 NIPPLE UP B.O.P.		
15 TEST B.O.P.		
16 DRILL STEM TEST		
17 PLUG BACK		
18 SQUEEZE CEMENT		
19 FISHING		
20 DIR. WORK		
21 Work on Kelly Spinner	1.5	
22 BOP Drill	.25	
23		
COMPLETION A. PERF'R'T'N		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'N'L		
G		
	12	12
TOTALS		
DAY WORK TIME SUMMARY (OFFICE USE ONLY)		
HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	.30 m	BIT No.	7ARR	TIME	1:00	06:30
	Bit sub	1.10	SIZE	311	DENSITY kg/m³	1160	1170
	STB RMR SS OD	2.62 m	MFG.	Hughes	PRESSURE GRADIENT		
3	D.C. 228 OD ID	27.20 m	TYPE	J2	VISCOSITY	47	59
1	STB RMR JAR OD	4.92 m	JETS mm	3x20	PV YP mPa•s Pa	/	/
3	D.C. 228 OD ID	27.76 m	SER. No	B3556	GEL STR Pa	/	/
1	STB RMR Bell OD	.78 m	DEPTH OUT		WATER LOSS cm³		
12	171 DC	112.77	DEPTH IN	164	pH	10	9.5
1	X/O	.50	TOTAL METRES DRILLED	36	SOLIDS %		
	BHA	177.95	TOTAL HRS. RUN	21.75			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
2	SINGLES DP	18.78 m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	6.00 m	PRESSURE DROP kPa		GEL	40	XCD 1 sk
	TOTAL	202.73 m			CAUSTIC	2 sk	Barite 84
	(FORCE) WT. OF STRING	34,000 daN			BARITE	84	Gel 5 sks

REMARKS

DRILLER Brian Eccles

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.30 m	BIT No.	7ARR	TIME	1.00	18:00	22:30
	Bit sub	1.10	SIZE	311	DENSITY kg/m³	1195	1205	1230
	STB RMR SS OD	2.62 m	MFG.	Hughes	PRESSURE GRADIENT			
3	D.C. 228 OD ID	27.20 m	TYPE	J2	VISCOSITY	65	55	62
1	STB RMR JAR OD	4.92 m	JETS mm	20 20 20	PV YP mPa•s Pa	/	/	/
3	D.C. 228 OD ID	27.76 m	SER. No.	B3556	GEL STR. Pa	/	/	/
12	STB RMR 171 DC OD	112.77 m	DEPTH OUT		WATER LOSS cm³			
1	X/O	.50	DEPTH IN	164	pH	9.0	10.5	10
1	Bell BHA	177.95	TOTAL METRES DRILLED	73	SOLIDS %			
			TOTAL HRS. RUN	33				
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
5	SINGLES DP	47.68 m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	11.37 m	PRESSURE DROP kPa		CAUSTIC	1 sk		
	TOTAL	237 m			GEL	5	37	
	(FORCE) WT. OF STRING	35000 daN			BARITE	42	51	
					XCD		1	

REMARKS

DRILLER Matt Sakum

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Sumitomo	81	K55	14	164.8	5.03	164

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT	~~69807~~ 1946
CUMULATIVE MEGAJOULES	69807

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
186	202	14		Fuel at 6:00 14329	150	9000	6180	152	110	152	110	P
					REDUCED PUMP SPEED		1230	152	110			SBC

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0030	.50	2	Drill Fr. 186m - 187
0030	0045	.25	7	Rig Service
0045	0215	1.5	21	Work on Kelly Spinner
0215	0545	3.5	2	Drill Fr 187 - 191m
0545	0600	.25	22	BOP. DRILL HELD w/crew, well secure 95 secs
0600	12:00	6.00	2	Drill Fr 191m - 203

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
203	237	34			150	9000	6700	152	100	152	110	P
					REDUCED PUMP SPEED		1240	152	110			SBC

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	206	1.2							

BOILER HOURS 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	.25	7	Rig service Ft. Pipe Rams close 5 sec
12:15	14:00	1.75	2	Drill 203 - 209
14:00	14:30	.50	5/10	Circ + survey 206 1.2 degrees
14:30	24:00	9.5	2	Drill 209m - 237m

FORM 2T6m APPROVAL PENDING APPROVED Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek	C17-EL-397	C-17-65-10-12-6		98 01 05 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shehtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Mel Speers

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	11	4
3	REAMING		.75
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		7
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.50	
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	.30 m	BIT No.	TRR2	TIME	02:00	06:00
	Bit Sub	1.10	SIZE	311	DENSITY kg/m³	1240	1265
	STB RMR SS OD	2.62 m	MFG.	Hughes	PRESSURE GRADIENT		
3	D.C. ID 228 OD	27.20 m	TYPE	J2	VISCOSITY	92	91
1	STB RMR JAR OD	4.92 m	JETS mm	3 x 20	PV YP mPa•s Pa	/	/
3	D.C. ID 228 OD	27.76 m	SER. No	B35E6	GEL STR. Pa	/	/
~~12~~	STB RMR ~~171 DC~~ OD	~~112.77~~ m	DEPTH OUT		WATER LOSS cm³		
1	Bell	.78	DEPTH IN	164	pH	10	9
12	171 DC	112.77	TOTAL METRES DRILLED	102	SOLIDS %		
1	X/O	.50	TOTAL HRS. RUN	4/4			
	STANDS DP	177.95 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
9	SINGLES DP	85.43 m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa		GEL	55	
	TOTAL	276.18 m			BARITE	117	
	(FORCE) WT. OF STRING	daN			XCD		

REMARKS: accumulator funtion test Hydro pump kicks in 19000 kpa pump out 21500 funtion test close Hydro. pipe rams open pipe rams 13000 kpa remaining, precharge on bottles RECHARGE 13000-21500 3½ minutes

DRILLER: Brian Eccles

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD			MUD RECORD		
	BIT	.30 m	BIT No.	TRR2	2	TIME	1300	
	BIT SUB	1.10	SIZE	311	311	DENSITY kg/m³	1300	
	STB RMR SS OD	2.62 m	MFG.	Hughes	H.W	PRESSURE GRADIENT		
3	D.C. ID 228 OD	27.20 m	TYPE	J2	GT28	VISCOSITY	95	
1	STB RMR JAR OD	4.92 m	JETS mm	20 20 20	20 20 20	PV YP mPa•s Pa	/	/
3	D.C. ID 228 OD	27.76 m	SER. No.	B35C6	H904B	GEL STR. Pa	/	/
1	STB RMR BELL OD	.78 m	DEPTH OUT	286	OBD	WATER LOSS cm³		
12	171 DC	112.77	DEPTH IN	164	286	pH	9.5	
1	X/O	.50	TOTAL METRES DRILLED	122	5	SOLIDS %		
	BHA	177.95	TOTAL HRS. RUN		1.25			
3	STANDS DP	85.43 m	COND. 1/8's T/B/GAGE			MUD & CHEMICALS ADDED		
1	SINGLES DP	9.71 m	FLOW RATE m³/min	/	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa			Caustic	1	
	TOTAL	285.89 m				Barite	84	
	(FORCE) WT. OF STRING	46,000 daN						

REMARKS

DRILLER: [illegible]

E.R.C.B.

	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION: Ranger NOTA Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Sumitomo	84	K55	14	164.8	5.03	164

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
237	276	39		fuel 0-10317	130	15	7400	152	110	152	110	P
				6:00 258 depth	REDUCED PUMP SPEED		2380	152	110			SRC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
234	.5							
263	.6							

BOILER HOURS: 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0100	1	2	Drill Fr. 237 - 238.43
0100	0115	.25	7	Rig service Ft Annular close 11 sec
0115	0130	.25	10	Survey .5 degree at 234m.
0130	8:30	7.00	2	Drill Fr. 238.43 m - 256 6AM DEPTH 301
8:30	9:00	.50	5/10	circ + survey at 263 .6 degree's
9:00	12:00	3	2	Drill fr 266 - 276
				12 hours
0600				

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL. P COM'D. C
276	286	1.0			130	15	7500	152	100	152	110	P
					75	14	8800	152	110	152	110	
					REDUCED PUMP SPEED		2390	152	110			SRC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	.25	7	Rig service funtion test Hydro + pipe rams [Bop Drill]
12:15	15:00	2.75	2	Drill 276 - 286m
15:00	19:00	4	6	P.O.O.H FOR BIT
19:00	22:00	3	6	MAKE UP NEW BIT + R.I.H.
22:00	22:45	.75	3	BREAK CIRC. + REAM (FR 266 - 281 m)
22:45	24:00	1.25	2	DRILL (FR. 281 - 285m)

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Notia Creek	C17-EL-390	C-17-65-10-12 G		98 01 07 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger O.L LTD.	SHEHIAH Drilling LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	27.9	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial [illegible] R.M. Initial [illegible]
(2) Detailed Inspection Weekly (using check list) — Initial ____ Initial ____
(3) H_2S Signs Posted (if required) — Initial ____ Initial ____

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial [illegible]
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ____
(3) Mast Inspected Before Raising or Lowering — Initial ____

LEGAL LAND DESCRIPTION: Ranger Notia Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	339	320	Sumitomo	81	K-55	14	1648	5.03	164

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF: ____ PRESENT LENGTH: ____

MEGAJOULES SINCE LAST CUT: .2482

CUMULATIVE MEGAJOULES: 70343

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10	8
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	1.25	3.50
6	TRIPS		
7	LUBRICATE RIG	.25	
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.25	.50
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	CLEAN + REMOVE SUC. SCREENS	.25	
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.30 m	BIT No.	2	TIME	03:00	06:00	10:00
	bit sub	1.10	SIZE	311	DENSITY kg/m³	1300	1300	1300
	STB RMR 5.5 OD	2.62 m	MFG.	H.W.	PRESSURE GRADIENT			
3	D.C. ID 228 OD	27.20 m	TYPE	GT28	VISCOSITY	85	97	100
1	STB RMR JAR OD	4.92 m	JETS mm	20 20 20	PV YP mPa•s Pa	/	/	/
3	D.C. ID 228 OD	27.76 m	SER. No	H904B	GEL STR. Pa	/	/	/
1	STB RMR Bell OD	.78 m	DEPTH OUT		WATER LOSS cm³			
12	171 D.C.	112.77	DEPTH IN	281	pH	9.5	9.5	9.0
1	X/O	.50	TOTAL METRES DRILLED	37	SOLIDS %			
	BHA	177.95	TOTAL HRS. RUN	15				
4	STANDS D.P.	123.79 m	COND. 1/8's T/B/GAGE	0 B D.	MUD & CHEMICALS ADDED			
1	SINGLES DP	9.78 m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	7.06 m	PRESSURE DROP kPa		GEL	26		
	TOTAL	318.58 m			BARITE	70		
	(FORCE) WT. OF STRING	46,000 daN						

REMARKS

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.30 m	BIT No.	2	TIME	19:30	21:30	23:00
1	B/S	1.10	SIZE	311	DENSITY kg/m³	1270	1280	1300
	STB RMR 55 OD	2.62 m	MFG.	H.W.	PRESSURE GRADIENT			
3	D.C. ID 228 OD	27.20 m	TYPE	GT28	VISCOSITY	67	69	98
1	STB RMR JAR OD	4.92 m	JETS mm	3 x 20	PV YP mPa•s Pa	/	/	/
3	D.C. ID 228 OD	27.76 m	SER. No.	H904B	GEL STR. Pa	/	/	/
1	STB RMR BELL OD	.78 m	DEPTH OUT		WATER LOSS cm³			8.0
12	171 DC	112.77	DEPTH IN	281	pH	10.0	9.5	9.5
1	X/O	.50	TOTAL METRES DRILLED	61	SOLIDS %			
	BHA	177.95	TOTAL HRS. RUN	23				
5	STANDS DP	142.82 m	COND. 1/8's T/B/GAGE	0 B D.	MUD & CHEMICALS ADDED			
1	SINGLES DP	9.25 m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa		Barite	205X	Lignite	10SX
	TOTAL	342.82 m			Caustic	8SX	Kelzan	1SX
	(FORCE) WT. OF STRING	46,000 daN			Soda Ash	6SX		
					Desco	19SX		

REMARKS

DRILLER: [signature]

METRES DRILLED / FORMATION

FROM	TO	DR. D RM R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN (SGL S PAR EL P COM D C)
286	318	32		Fuel @ 06:00 - 1289.6 l	75	15	7700	152	110	152	110	P
					REDUCED PUMP SPEED		2600	152	110			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
292	½							

BOILER HOURS: 12 142

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	Rig Service Function ann.
00:15	04:00	3.75	2	Drill 311mm Hole F/286 to 295
04:00	04:30	.50	5/10	Survey @ 292 and circ Hole clean.
04:30	06:00	1.50	2	Drill 311mm Hole F/295 to 301
06:00	06:30	.5	5/21	CIRC. & CLEAN & REMOVE SUC. SCREENS
06:30	11:15	4.75	2	DRILL 311mm HOLE (FR 301 - 318m)
11:15	12:00	.75	5	CIRC. & COND MUD

METRES DRILLED / FORMATION

FROM	TO	DR. D RM R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN (SGL S PAR EL P COM D C)
318	342	24			55/60	14/15	9,000	152	95	152	95	P
					70	15	10,000	152	100	152	100	P
					REDUCED PUMP SPEED		2100			152	100	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
330	1°							

BOILER HOURS: 12 142

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	14:30	2.50	5	CIRC. & COND. MUD
14:30	15:00	.50	2	DRILL 311mm HOLE (FR. 318 - 320m)
15:00	16:00	1.00	5	CIRC OUT HIGH VIS MUD
16:00	21:00	5.00	2	DRILL (FR. 320 - ~~322~~m) 333
21:00	21:30	.50	5/10	circ. Hole + Survey.
21:30	24:00	2.50	2	Drill 311mm Hole F/333 to 342.
		12.		

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger NOTA Creek.	C17-EL-370	C-17-65-10-12 G		98 01 [illegible] Yr. Mo. Da.

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil LTD.	SHEKTAH Drilling LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	Neil Speers

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)		Initial
(3) Mast Inspected Before Raising or Lowering		Initial

LEGAL LAND DESCRIPTION: Ranger NOTA Creek C17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Smith Ind.	81	K-55	14	164.8	5.03	164

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF: | PRESENT LENGTH:

MEGAJOULES SINCE LAST CUT: 2722.

CUMULATIVE MEGAJOULES: 70590

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10	9.50
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.25	.25
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		1.50
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.50	.25
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	CLEAN SUC. LINES	1	
22	B.O.P. Drill		.25
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
1	BIT	.30 m	BIT No.	2	TIME	07:00	05:30	10:00
1	B/S.	1.10	SIZE	311	DENSITY kg/m³	1300	1310	1325
1	STB RMR S/S OD	2.62 m	MFG.	H.W.	PRESSURE GRADIENT			
3	D.C. ID 228 OD	27.20 m	TYPE	GT28	VISCOSITY	95	79	56
1	STB RMR JAR OD	4.92 m	JETS mm	3x20	PV YP mPa•s Pa	/	/	/
3	D.C. ID 228 OD	27.76 m	SER. No	H904B	GEL STR. Pa	/	/	/
1	STB RMR Bell Sub OD	.78 m	DEPTH OUT	OBD	WATER LOSS cm³			10.0
12	171 D.C.	112.77	DEPTH IN	281	pH	9.0	9.0	8.5
1	X/O	.50	TOTAL METRES DRILLED	98	SOLIDS %			
	BHA	177.95	TOTAL HRS. RUN	33				
6	STANDS D.P.	170.62 m	COND. 1/8's T/B/GAGE	0 B D	MUD & CHEMICALS ADDED			
2	SINGLES DP	18.46 m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa		Gel	8 SXS		
	TOTAL	379.83 m			Barite	40 SXS.		
	(FORCE) WT. OF STRING	40,000 daN						

REMARKS

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.30 m	BIT No.	2	TIME	1500	1900	2330
1	B/S	1.10	SIZE	311	DENSITY kg/m³	1310	1320	1310
	STB RMR S/S OD	2.62 m	MFG.	H.W.	PRESSURE GRADIENT			
3	D.C. ID 228 OD	27.20 m	TYPE	GT28	VISCOSITY	58	75	65
1	STB RMR JAR OD	4.92 m	JETS mm	3x20	PV YP mPa•s Pa	/	/	/
3	D.C. ID 228 OD	27.76 m	SER. No	H904B	GEL STR. Pa	/	/	/
1	STB RMR BELL OD	.78 m	DEPTH OUT		WATER LOSS cm³	9.5	9	9
12	171 DC	112.77	DEPTH IN	281	pH	8.5	8.5	9.5
1	X/O	.50	TOTAL METRES DRILLED	136	SOLIDS %			
	BHA	177.95	TOTAL HRS. RUN	42.50				
8	STANDS DP	227.00 m	COND. 1/8's T/B/GAGE	0 B D	MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa		Sawdust	4 SX	Caustic	1 SX
	TOTAL	417.75 m			Lignite	8 SX		
	(FORCE) WT. OF STRING	42,000 daN			Gel	4 SX		
					Barite	10 SX		

REMARKS N.E.B. Did Rig Inspection, Held BopDrill

Dumped Sand Trap @ connection.

DRILLER [signature]

METRES DRILLED

FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR. EL. P. COM. D. C.
342	379	37		Fuel @ 06:00 - 5158	70	15	10,000	152	100	152	100	P
					REDUCED PUMP SPEED		2200	152	100			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
370 m	.5°							

BOILER HOURS 12 1 & 2.

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	Rig Service Function Pipe Rams Close 5 secs.
00:15	06:00	5.75	2	Drill 311 mm Hole F/342 To 365
06:00	07:00	1.00	21	Clean out suction Lines on #2 pump (Barite ob
07:00	08:15	1.25	2	Drill 311 mm Hole F/365 To 370m
08:15	09:00	.25/.50	5/10	CIRC HOLE & SURVEY
09:00	12:00	3	2	DRILL 311 mm HOLE (FR. 370 - 379 m)

METRES DRILLED

FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR. EL. P. COM. D. C.
379	417	38			70	15	10,000	152	100	152	100	P
					REDUCED PUMP SPEED		2300			152	100	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
396	½°							

BOILER HOURS 12 1 & 2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	.25	7	RIG SERV. FT. ANNULAR PREV.
12:15	13:45	1.50	8	CHANGE HEAD IN PUMP #2, UNPLUG LUB. HOSES
13:45	15:15	1.50	2	DRILL 311 mm HOLE (FR 379 - 386 m)
15:15	15:30	.25	22	B.O.P DRILL HELD w/ CREW
15:30	18:45	3.25	2	DRILL 311 mm HOLE (FR. 386 - 398 m)
18:45	19:15	.25/.25	5/10	CIRC. HOLE & SURVEY
19:15	24:00	4.75	2	DRILL 311 mm HOLE (FR. 398 - 417)
		12.		

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger NOTA Creek	C17-EL-390	C-17-65-10-12 G		98 01 09

OPERATOR	CONTRACTOR	RIG No.
Ranger oil LTD.	SHEMIAH Drilling LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	[illegible]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	8.75	8.50
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.25	.25
6	TRIPS		
7	LUBRICATE RIG	.25	.50
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.25	.25
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	WORK ON Lubricator	.50	
22	Change Heads	2.00	1.50
23	CHANGE SHAKER SCREEN		.50
24	REPAIR DRILL		.25
25	ERP Meeting		.25
COMPLETION	A. PERF'TN		
	B. TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.30 m	BIT No.	2	TIME	02:15	05:00	10:30
1	B.S.	1.10	SIZE	311	DENSITY kg/m³	1320	1325	1345
1	STB RMR 5.5 OD	2.62 m	MFG.	H.W.	PRESSURE GRADIENT			
3	D.C. ID 228 OD	27.20 m	TYPE	GT28	VISCOSITY	63	64	83
1	STB RMR JAR OD	4.92 m	JETS mm	3X15.9	PV YP mPa•s Pa	/	/	/
3	D.C. ID 228 OD	27.76 m	SER. No.	H9043	GEL STR. Pa	/	/	/
1	STB RMR Bell Sub OD	.78 m	DEPTH OUT	OBD	WATER LOSS cm³	9.0		10
12	171 D.C.	112.77	DEPTH IN	281	pH	9.5	9.5	8.5
1	X/O	.50	TOTAL METRES DRILLED	173	SOLIDS %			
	BHA	177.95	TOTAL HRS. RUN	51.25				
9	STANDS D P	255.20 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
1	SINGLES DP	9.23 m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	11.62 m	PRESSURE DROP kPa		Gel	21 SXS	SAWDUST	10
	TOTAL	454.00 m			Lignite	5 SXS.		
	(FORCE) WT. OF STRING	47,000 daN			Caustic	1 SX		
					Barite	20 SXS		

REMARKS

DRILLER [illegible]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.30 m	BIT No.	2	TIME	13:00	18:00	23:00
1	B/S	1.10	SIZE	311	DENSITY kg/m³	13.30	1310	1300
1	STB RMR 5.5 OD	2.62 m	MFG.	H.W	PRESSURE GRADIENT			
3	D.C. ID 228 OD	27.20 m	TYPE	GT28	VISCOSITY	81	70	80
1	STB RMR JAR OD	4.92 m	JETS mm	3x15.9	PV YP mPa•s Pa	/	/	/
3	D.C. ID 228 OD	27.76 m	SER. No.	H904B	GEL STR. Pa	/	/	/
1	STB RMR BELL SUB OD	.78 m	DEPTH OUT	OBD	WATER LOSS cm³	10	10	9.5
12	171 DC	112.77	DEPTH IN	281	pH	8.5	8.5	9.5
1	X/O	.50	TOTAL METRES DRILLED	209	SOLIDS %			
	BHA	177.95	TOTAL HRS. RUN	59.75				
10	STANDS DP	283.30 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
2	SINGLES DP	18.76 m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	9.95 m	PRESSURE DROP kPa		GEL	8 SX		
	TOTAL	490.00 m			DESCO	4 SX		
	(FORCE) WT. OF STRING	49,000 daN			CASTIC	2 SX		
					Lignite	4 SX		

REMARKS CHANGE TOP 2 SCREENS #2 SHAKER FROM 110 mesh to 140 mesh.

DRILLER [illegible]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial ____	Initial [illegible]
(2) Detailed Inspection-Weekly (using check list)	Initial ____	Initial [illegible]
(3) H_2S Signs Posted (if required)	Initial ____	Initial ____

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial [illegible]
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial [illegible]
(3) Mast Inspected Before Raising or Lowering	Initial ____

LEGAL LAND DESCRIPTION Ranger NOTA Creek C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Sumitomo	81	K-55	14	164.8	5.03	164

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR.EL.P. COM.D.C.
417	454	37		Fuel @ 06:00 - 13183	70	15	10,000	152	100	152	100	P
					REDUCED PUMP SPEED		3000	152	100			

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
432	½							

BOILER HOURS 12 1 to 2.

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	Rig Service Function HCR open 4 secs.
00:15	01:45	1.50	2	Drill 311 mm Hole F/417 to 423
01:45	02:15	.50	21	work on pump #2 Lubricator (unplug Lube Hoses)
02:15	04:15	2.00	2	Drill 311 mm Hole F/423 to 430
04:15	05:00	.75	22	Change Head on pump #2.
05:00	06:15	1.25	2	Drill 311 mm Hole F/430 to 436
06:15	06:45	.25/.25	5/10	Circ. Hole & survey.
06:45	08:00	1.25	22	change Head & Liner on pump #2.
08:00	12:00	4.0	2	DRILL 311 mm HOLE (FR. 436 - 454m)

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR.EL.P. COM.D.C.
454	490	36			70	15	9700	152	99	152	99	
										152		
					REDUCED PUMP SPEED		3200			152	99	

DEVIATION RECORD DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
460	1°							

BOILER HOURS 12 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:30	1.50	2	DRILL 311mm HOLE (FR. 454 - 461m)
13:30	15:00	1.50	22	CHANGE HEAD & LINER ON PUMP #2
15:00	15:30	.50	2	DRILL 311mm HOLE (FR. 461 - 464m)
15:30	15:45	.25	5	CIRC.
15:45	16:00	.25	7	RIG SERV. FT PIPE RAMS CLOSE 6 SEC.
16:00	16:15	.25	10	SURVEY
16:15	16:45	.50	23	CHANGE SHAKER SCREENS (TOP #2 SHKR)
16:45	21:45	5.00	2	DRILL 311mm HOLE (FR 464 - 483)
21:45	22:15	.25/.25	7/24	RIG SERVICE & BOP DRILL (FUNCTION LOWER PIPE RAMS)
22:15	22:30	.25	25	HELD E.R.P. MEETING W/ALL PERSONEL ON LOCATION
22:30	24:00	1.50	2	DRILL 311mm HOLE (FR 483-490m)

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK	C17-EL-390	C-17-65-10-126		98 01 10

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Tom [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10.75	10.25
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.50	.25
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.50	.25
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	✓ EQUIP FOR PRESS LOSS		1.00
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

DRILLING ASSEMBLY (at end of tour)

No.		
	BIT	.30 m
1	B/S	1.10
1	STB RMR 5.5 OD	2.62 m
3	D.C. ID 228 OD	27.20 m
1	STB RMR JAR OD	4.92 m
3	D.C. ID 228 OD	27.76 m
1	STB RMR BELL SUB OD	.78 m
12	171 DC	112.77
1	X/O	.50
	BHA	177.95
12	STANDS D.P.	339.28 m
	SINGLES DP	m
	KELLY DOWN	10.77 m
	TOTAL	528.00
	(FORCE) WT. OF STRING	49,000 daN

BIT RECORD

BIT No.	2	
SIZE	311	
MFG.	H.W	
TYPE	GT28	
JETS mm	3X15.9	
SER. No.	4904B	
DEPTH OUT	OBD	
DEPTH IN	281	
TOTAL METRES DRILLED	247	
TOTAL HRS. RUN	70.5	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD

TIME	02:00	06:00	0900
DENSITY kg/m³	1300	1300	1310
PRESSURE GRADIENT			
VISCOSITY	69	66	75
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	9.5	10.5	10.0
pH	9.5	9.0	9.0
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
DESCO	4SK		
CAUSTIC	1 SK		
LIGNITE	1 SK		
BARITE	20SK		

REMARKS

DRILLER: Mark Grayston

FIRST TOUR

No.		
	BIT	.30 m
1	B/S	1.10
1	STB RMR 5.5 OD	2.62 m
3	D.C. ID 228 OD	27.20 m
1	STB RMR JAR OD	4.92 m
3	D.C. ID 228 OD	27.76 m
1	STB RMR BELL SUB OD	.78 m
12	171 D.C.	112.77
1	X/O	.50
	BHA	177.95
12	STANDS DP	339.98 m
2	SINGLES DP	18.75 m
	KELLY DOWN	12.80 m
	TOTAL	549.48
	(FORCE) WT. OF STRING	50,000 daN

BIT No.	2		
SIZE	311		
MFG.	H.W		
TYPE	GT28		
JETS mm	3X15.9		
SER. No.	H904B		
DEPTH OUT	OBD		
DEPTH IN	281		
TOTAL METRES DRILLED	268		
TOTAL HRS. RUN	80.75		
COND. 1/8's T/B/GAGE			
FLOW RATE m³/min	/	/	
PRESSURE DROP kPa			

TIME	12:00	1530	2200
DENSITY kg/m³	1310	1320	1315
PRESSURE GRADIENT			
VISCOSITY	65	69	68
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	10.0		11.5
pH	8.5	8.5	8.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Gel	24SX		
Lignite	8SX		
Caustic	1SX		

REMARKS Greased Crown & Blocks
VISUALLY INSPECTED BREAK LINKAGE

DRILLER: Tom [signature]

SECOND TOUR

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

		R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial	
(3) Mast Inspected Before Raising or Lowering	Initial	

LEGAL LAND DESCRIPTION: RANGER NOTA CREEK

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	339	320	Sumitomo	81	K-55	14	164.8	5.03	164

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 2988

CUMULATIVE MEGAJOULES: 70849

METRES DRILLED

FROM	TO	DR. D. / RM. R / CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. / PAR.EL.R. / COM.D.C.
490	528	38		FUEL @ 0600-10030	70	15	9800	152	99	152	99	P
					REDUCED PUMP SPEED		3100	152	99			

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
489	½°							
519	1°							

BOILER HOURS 12 142

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:45	.75	2	DRILL 311 mm HOLE (F. 490-492m)
00:45	01:15	.25/.25	5/10	CIRC. HOLE + SURVEY
01:15	06:00	4.75	2	DRILL 311mm HOLE F-492-510
06:00	09:00	3.0	2	DRILL 311mm HOLE (FR. 510-521m)
09:00	09:30	.25/.25	5/10	CIRC. + CLEAN HOLE / SURVEY @ 519m
09:30	09:45	.25	7	RIG SERV. FT HYDRIL CLOSE 2 SEC
09:45	12:00	2.25	2	DRILL 311 mm HOLE (FR. 521 - 528m)

METRES DRILLED

FROM	TO	DR. D. / RM. R / CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. / PAR.EL.R. / COM.D.C.
528	549	21			70	15000	7400	152	100	152	100	P
					40	20000						
					REDUCED PUMP SPEED		2200	152	100	152		

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
546m	½°							

BOILER HOURS 12 142

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:00	1.0	21	CHECK EQUIP. FOR DROP IN PUMP PRESSURE
13:00	19:30	6.50	2	DRILL 311mm HOLE (FR. 528 - 542m)
19:30	19:45	.25	7	RIG SERVICE - FT UPPER PIPE RAMS
19:45	23:30	3.75	2	DRILL 311mm HOLE (FR. 542-549m)
23:30	23:45	.25	5	CIRCULATE + COND. HOLE
23:45	24:00	.25	10	SURVEY @ 546m

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
RANGER NOTA CREEK		C-17-65-10-12G		98 01 11 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	11.75	11.50
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		.25
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		.50
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS.

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.30	m
1	B/S	1.10	
1	STB RMR SS OD	2.62	m
3	D.C. ID 228 OD	27.20	m
1	STB RMR JAR OD	4.92	m
3	D.C. ID 228 OD	27.76	m
1	STB RMR BELL SUB OD	.78	m
12	171 D.C.	112.77	
1	X/O	.50	
	BHA	177.95	
13	STANDS D.P.	377.22	m
1	SINGLES DP	9.72	m
	KELLY DOWN	4.96	m
	TOTAL	569.85	m
	(FORCE) WT. OF STRING 49,000	daN	

BIT RECORD		
BIT No.	2	
SIZE	311	
MFG.	H.W.	
TYPE	GT28	
JETS mm	3x15.9	
SER. No.	4904B	
DEPTH OUT	OBD	
DEPTH IN	281	
TOTAL METRES DRILLED	288	
TOTAL HRS. RUN	92.5	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD			
TIME	02:00	06:00	09:00
DENSITY kg/m³	1320	1315	1315
PRESSURE GRADIENT			
VISCOSITY	71	67	70
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	12.0	12.0	12.0
pH	8.0	9.5	8.5
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Lignite	2 SX		
Caustic	1 SK		

REMARKS HELD SAFETY MEETING W/CREW

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.30	m
1	B/S	1.10	
1	STB RMR SS OD	2.62	m
3	D.C. ID 228 OD	27.20	m
1	STB RMR JAR OD	4.92	m
3	D.C. ID 228 OD	27.76	m
1	STB RMR BELL SUB OD	.78	m
12	171 DC	112.77	
1	X/O	.50	
	BHA	177.95	
14	STANDS DP	396.15	m
	SINGLES DP		m
	KELLY DOWN	12.80	m
	TOTAL	586.9	m
	(FORCE) WT. OF STRING 49,000	daN	

BIT RECORD		
BIT No.	2	
SIZE	311	
MFG.	H.W.	
TYPE	GT28	
JETS mm	3x15.9	
SER. No.	4904B	
DEPTH OUT		
DEPTH IN	281	
TOTAL METRES DRILLED	305	
TOTAL HRS. RUN	103.5	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD			
TIME	12:00	16:30	
DENSITY kg/m³	1320	1320	
PRESSURE GRADIENT			
VISCOSITY	62	61	
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³	12.5		
pH	8.5	8.5	
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Lignite	8 SX		
GEL	8 SX		
Caustic	1 SX		
Aquapac	1 SX		

REMARKS

DRILLER [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION: RANGER NOTA CREEK

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	Sumitomo	81	K-55	14	164.8	5.03	164

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 3173

CUMULATIVE MEGAJOULES: 71035

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR.E.P. COM'D. C
549	569	20		FUEL @ 06:00 10890	50	20000			100	152	100	P
					55	20	8900	152	110	152	100	
					REDUCED PUMP SPEED		2600	1		152	110	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	06:00	6.00	2	DRILL 311mm HOLE (FR 549m - 560m)
06:00	07:30	1.50	2	DRILL (FR 560 - 562m)
07:30	07:45	.25	7	RIG SERV. (FT LOWER PIPE RAMS CLOSE 6 SEC)
07:45	12:00	4.25	2	DRILL 311mm HOLE (FR 562 - 569m)

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR.E.P. COM'D. C
569	586	17			55	20	9000	152	110	152	110	P
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
573	.5°							

BOILER HOURS

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	16:30	4.50	2	DRILL 311 mm HOLE (FR 569 - 577m)
16:30	16:45	.25	5	CIRC. & CLEAN HOLE
16:45	17:15	.50	10	SURVEY
17:15	20:00	2.75	2	DRILL 311 mm HOLE (FR. 577 - 580m)
20:00	20:15	.25	7	SERVICE RIG
20:15	24:00	3.75	2	DRILL 311mm HOLE (FR 580 - 586)
		12		

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
RANGER NOTA CREEK		C-17-65-10-12G		98 01 12 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE

SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	G	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		2.00
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	1.5	
6	TRIPS	6.75	9.00
7	LUBRICATE RIG		.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		.25
21	LAY DOWN DC	3.75	
22	ATTEMPT TO RETRIEVE SURV		.50
23			
COMPLETION	A. PERF/R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK
No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS.
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.	3	TIME	
			SIZE	311	DENSITY kg/m³	
	STB RMR OD	m	MFG.	H.W	PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE	GTM28	VISCOSITY	
	STB RMR OD	m	JETS mm	3/17.9	PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.	H894B	GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN	586	pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS

FLOW ✓ @ 574m, 500, 387m, 216, 156, 0 — NO FLOW
FUNCTION BLIND RAM WHILE OUT OF HOLE

DRILLER Monte Grayson

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	.30 m	BIT No.	3	TIME	1200
1	B/S	1.10	SIZE	311	DENSITY kg/m³	1295
1	STB RMR BELL SUB OD	.78 m	MFG.	H.W	PRESSURE GRADIENT	
1	D.C. ID MONEL OD	9.05 m	TYPE	GTM28	VISCOSITY	58
15	STB RMR 171 DC OD	140.58 m	JETS mm	3x17.9	PV YP mPa•s Pa	/ /
1	D.C. ID X/O OD	.50 m	SER. No.	H894B	GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT	0	WATER LOSS cm³	
	BHA	152.31	DEPTH IN	586	pH	
			TOTAL METRES DRILLED	2	SOLIDS %	
			TOTAL HRS RUN	1.75		
45	STANDS DP	424.07 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN		PRESSURE DROP kPa		Gel / 15 sks	
	TOTAL	588.0 m				
	(FORCE) WT. OF STRING	46,000 daN				

REMARKS

DRILLER Trevor J. [illegible]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION RANGER NOTA CREEK C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	339	320	Sumit OMO	81	K-55	14	164.8	5.03	164

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 3286

CUMULATIVE MEGAJOULES 71148

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PARE D. COM'D. C
586				FUEL @ 06⁰⁰ = 6591			9000	152	110	152	110	P
					REDUCED PUMP SPEED		2300	152	100			

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS 12 1 + 2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00⁰⁰	01³⁰	1.50	5	CIRC. + CONDITION HOLE
01³⁰	07:00	5.5	6	TRIP FOR BIT # 2 (BLOW KELLY) LAY DOWN 3 SINGLES D
07:00	08:15	1.25	6	MAKE UP NEW BIT + R.I.H (PICK UP 3 DC.)
08:15	12.00	3.75	21	P.O.H + LAY DOWN 9" D.C.
~~11:15~~	~~12:00~~			

METRES DRILLED FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PARE D. COM'D. C
586	588	2			40	12	7000	152	100	152	100	P
					REDUCED PUMP SPEED							

DIRECTIONAL DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
238	1.2	329	351	.4	347	455	.5	12
568	.7	62						

BOILER HOURS 12 - 1 & 2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	15:00	3	6	MAKE-UP BHA + RIH (5 STD DC + 3 STD DP)
15:00	15:15	.25	20	DIR. SURVEY
15:15	15:45	.50	22	ATTEMPT TO RETRIVE SURVEY BBL w/ OVERSHOT
15:45	17:00	1.25	6	P.O.O.H TO RETRIEVE SURVEY BBL
17:00			6	RETRIEVE SURVEY BBL + RIH. (5 STD DC + 7 STD DP)
	19⁴⁵	2.75	6	RIH + DIRECTIONAL SURVEY
19⁴⁵	20⁰⁰	.25	7	SERVICE RIG + FUNTION BTTM. PIPE, RAMS !
20⁰⁰	22⁰⁰	2.00	6	RIH + DIRECTIONAL SURVEY
22⁰⁰	22¹⁵	.25	2	BREAK CIRC. + DRILL 311 mm HOLE FR 586 -
22¹⁵	24⁰⁰	1.75	2	DRLG 586-588

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		98 01 13

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHJAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	1.00	
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	2.00	2.50
6	TRIPS	3.25	5.50
7	LUBRICATE RIG	.25	.50
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS	5.5	3.25
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Blow Kelly		.25
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	.30 m	BIT No.	3	TIME	0200
1	B/S	1.10	SIZE	311	DENSITY kg/m³	1330
1	STB Bell Sub RMR OD	.78 m	MFG	H.W	PRESSURE GRADIENT	
1	D.C. ID Monel OD	9.05 m	TYPE	GTM28	VISCOSITY	65
15	STB RMR 171 OD	140.58 m	JETS mm	3X17.9	PV YP mPa•s Pa	/ /
1	D.C. ID X/O OD	.50 m	SER. No	H8948	GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT	589.00	WATER LOSS cm³	12.0
	BHA	152.31	DEPTH IN	586.00	pH	9.0
			TOTAL METRES DRILLED	3	SOLIDS %	
			TOTAL HRS. RUN	2.75		
45	STANDS D.P.	424.07 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg	TYPE / AMT. kg
	KELLY DOWN	12.62 m	PRESSURE DROP kPa		BARITE 40 SK + 2	
	TOTAL	589.00 m			CAUSTIC 1 SK	
	(FORCE) WT. OF STRING 46,000 daN				LIGNITE 1 SK	
					AQUAPAK 1	

REMARKS HELD SAFETY MEETING W/CREW RE: PINCH POINTS
FLOW ✓ @ 576m, 502m,
FUNCTION BLIND RAMS WHILE OUT OF HOLE

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	.30 m	BIT No.	4RR1	TIME	2100
1	BS	1.10	SIZE	311	DENSITY kg/m³	1330
1	STB Bell Sub RMR OD	.78 m	MFG	H.W.	PRESSURE GRADIENT	
1	D.C. ID Monel OD	9.05 m	TYPE	GTM28	VISCOSITY	57
15	STB RMR 171 OD	140.58 m	JETS mm	3X17.9	PV YP mPa•s Pa	/ /
1	D.C. ID X/O OD	.50 m	SER. No	H8948	GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT	589	WATER LOSS cm³	
	BHA.	152.31	DEPTH IN	589	pH	9.0
			TOTAL METRES DRILLED	3	SOLIDS %	
			TOTAL HRS. RUN	2.75		
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
45	SINGLES DP	424.07 m	FLOW RATE m³/min	/ /	TYPE / AMT. kg	TYPE / AMT. kg
	KELLY DOWN	12.62 m	PRESSURE DROP kPa		GEL	
	TOTAL	589 m			BARITE	
	(FORCE) WT. OF STRING 46,000 daN				CAUSTIC 1 SK	

REMARKS Driller did complete, walk about inspection. inspect manifold, shaker, Bop's, valves, HCR. Accumulator. Brakes & linkages. CROWN Saver. Heat trace lines. Ft. UPPER & Lower Pipes, close 6sec, [illegible] & [illegible] check Remote choke & control

DRILLER [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION RANGER NOTA CREEK C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG HD	SET AT
	339	320	Sumitomo	81	K-55	14	164.8	5.03	164

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF	PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
588	589	1		FUEL @ 0600=9457	40	12	6800	152	100	152	100	P
					REDUCED PUMP SPEED		2000	152	100			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0100	1.00	2	DRILL 311mm HOLE (FR 588-589)
0100	0300	2.00	5	CIRCULATE + CONDITION MUD
0300	0615	3.25	6	HOIST TO LOG (BLOW KELLY) LAY 1 SINGLE D.P DOWN
0615	07:00	.75	11	RIG TO + LOG W/ SCHLUMBERGER
07:00	07:15	.25	7	RIG SERV. (VISUALLY INSPECT BRAKES, LINKAGE + CROWN
07:15	12:00	4.75	11	LOG W/ SCHLUMBERGER

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
					Circ		6490	152	100	152	100	P
					REDUCED PUMP SPEED		1900	152	100			SRC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	15:00	3.00	11	LOG W/ SCHLUMBERGER
1500	15:15	.25	11	Rig out Loggers
15:15	15:30	.25	7	Rig Serv. Ft Blind Rams close. 6sec (Rig inspection)
15:30	20:15	4.75	6	Make up BHA. & RIH. To Bottom.
20:15	2245	2.5	5	Pick up kelly + Circ + cond Mud.
2245	2300	.25	21	Blow kelly
2300	2315	.25	7	Rig Serv. Ft upper Pipe Rams (Close 7sec) Driller walk around, insp.
2315	24:00	.75	6	Rack back kelly + P.O.O.H. w/ Flow ✓ @ 3,559, 294. BHA.

FORM 2T6m APPROVAL PENDING

CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		980114

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SHENTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		7.25
6	TRIPS	3	
7	LUBRICATE RIG	.25	.50
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT	6.75	3
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	CHANGE PIPE RAMS	1.50	
22	SAFETY MTG	.50	.25
23	TEAR OUT BOP		1
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	m	BIT No.		TIME		
			SIZE		DENSITY kg/m³		
	STB RMR OD	m	MFG.		PRESSURE GRADIENT		
	D.C. ID OD	m	TYPE		VISCOSITY		
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³		
			DEPTH IN		pH		
			TOTAL METRES DRILLED		SOLIDS %		
			TOTAL HRS RUN				
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa		Bentonite	39	
	TOTAL	m			Gel	13	
	(FORCE) WT. OF STRING	daN					

REMARKS: Check, Brakes Linkages, Crown Saver, Manifold, BOPs, HCR Kill line valves, Accumulator, Remote Choke. Floorhand, hurt middle finger on Bit sub. Accident reported imediatly. Peter Andrew hurt employee. Drillers walkabout every 4 hrs.

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	m	BIT No.		TIME	1430	
			SIZE		DENSITY kg/m³	1300	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT		
	D.C. ID OD	m	TYPE		VISCOSITY	65	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³		
			DEPTH IN		pH	9.0	
			TOTAL METRES DRILLED		SOLIDS %		
			TOTAL HRS RUN				
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa		Lignite	4 sks	
	TOTAL	m					
	(FORCE) WT. OF STRING	37.000 daN					

REMARKS: Check Brakes, Linkages, Crown Saver, Mani Fold, Guages Bops, HCR, kill line valves, Accumulator, Remote choke. Set up Brakes. Drillers walkabout every 4 hrs.

DRILLER: [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
- mud density = kilogram per cubic metre (kg/m³)
- pump stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = second per litre (s/L)
- flow rate = cubic metre per minute (m³/min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]
(2) Detailed Inspection Weekly (using check list)	Initial	Initial [illegible]
(3) H_2S Signs Posted (if required)	Initial	Initial [illegible]

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial [illegible]

LEGAL LAND DESCRIPTION: RANGER NOTA CREEK C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	339	320	SUMMIT OMJ	81	K-55	14	164.8	5.03	164
	244.5	226	PRUD	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR. EL. P COM. D. C
				FUEL @ 06:00 - 10030								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12, 1 + 2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	03:00	3	6	P.O.O.H TO RUN CSG
03:00	04:30	1.50	21	CHANGE PIPE RAMS
04:30	04:45	.25	22	RIG TO & RUN CSNG - HELD SAFETY MEETING W/ CREW CONSULTANT & DRILLING OPER.
04:45	07:00	2.25	12	Make up Shoe + float, Run Csg.
07:00	07:15	.25	22	Held Safety meeting W/ second crew. Prior to Run Csg.
07:15	07:30	.25	7	Rig Service, Ft Annular close 11sec (Driller walk around)
07:30	12:00	4.5	12	Run Csg

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR. EL. P COM. D. C
					CSG		2100	152	80	152	80	P
					REDUCED PUMP SPEED		730	152	80			SRC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
CEMENTED WITH 18.9 TONNES (17.3 m³ 20% EXCESS)						97 m KB ESTIMATED TOP		
					5 LITRES/TONNE FS2.1	RFC WITH 1% CACL2, .2% D46		

BOILER HOURS: 12 HRS 1 + 2.

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	1230	.5	12	Finish Run. Csg.
12:30	1545	3.25	5/23	Circ + Cond + W.O. Cementers.
15:45	1600	.25	7	Rig. Service Ft. Annular close 11sec. Driller walkabout.
16:00	19:00	3.00	5/23	Circ W.O. Cementers
19:00	19:15	.25	7	RIG. SERV. (FT ANNULAR CLOSE 11 SEC.) DRILLER WALKABOUT
19:15	20:15	1.00	5	CIRC. CSG + W.O. CEMENTERS
20:15	20:30	.25	22	HOLD SAFETY MTG W/ D.S., RIG CREW, + CONSULTANT ON CEMENTING
20:30	23:00	2.50	12	RIG TO + CEMENT CSG W/ DOWELL SCHLUMBERGER.
23:00	24:00	1.00	23	TEAR OUT Bop's + CLEAN MUD TANKS

FORM 2T6m — APPROVAL PENDING — CAODC — APPROVED — Revised December 1986 — COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12 G		98 01 15

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN	~~.50~~	
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		7.25
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Clean tanks Tear out BOP's	8.75	3.5
22	Set slips	1.75	~~.5~~
23	Cut csg.	1.0	1
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/ /		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: Check Brakes, Linkages, Crown Saver. Drillers walk around every 4hrs. BOPs, unbolted

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED: TYPE / AMT. kg / TYPE / AMT. kg	
	SINGLES DP	m	FLOW RATE m³/min	/ /		
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: Check Brakes, Linkages, Crown Saver. Drillers walk about every 4hrs. BOPs tore out. SWITCH SPOOLS IN B.O.Ps SO KILL LINES WILL FIT

DRILLER: [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	PRUD	53.3	K-55	45	584	5.03	589

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
				Fuel at 600'-659'								
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	RIG SERV. (CLOSED HYDRIL 10 SEC ON CSG) DRILLERS WALKAROUND
00:15	07:00	6.75	21	TEAR OUT B.O.P. & CLEAN MUD TANKS
07:00	07:15	.25	7	Rig service, no Ft. BOP's tore out. (Drillers walkabout)
07:15	08:15	1.0	21	Finish Tear out BOP's, clean tanks
08:15	10:00	1.75	22	Place in slips Pickup csg. set slips
10:00	11:00	1.0	23	Pickup BOP's to cut csg & cut csg.
11:00	12:00	1.0	21	Set down BOP's, Take off Ann. to lay out, clean tanks

BOILER HOURS: 12hrs - 1 & 2

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	15:30	3.5	21	Lay out BOP's, clean tanks
15:30	16:30	1.0	23	Final cut on Csg. ~~8~~ ~~sm~~ ~~t~~ taper. CLEAN MUD TANKS
16:30	18:00	1.5	14	Place in Csg. seal, Place on spool. CLEAN MUD TANKS
18:00	19:00	1.0	14	Pick up other BOP's. + Nipple up CLEAN MUD TANKS
19:00	19:15	.25	7	RIG SERV (NO B.O.P FUNC.) DRILLERS WALKABOUT
19:15	24:00	4.75	14	NIPPLE up B.O.P'S & CLEAN MUD TANKS

BOILER HOURS: 12HRS 1 + 2

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
RANGER NOTA CREEK		C-17-65-10-126		98 01 16 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SHEHTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER:

D.P. SIZE	kg/m	GRADE	TOOL JT. O.D.	TYPE THREAD	STRING No.
114	24.7	E	156	4½ XH	232

PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1	NATIONAL	8P80	216
2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.	10.5	5.75
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Change Rubbers	1.0	6
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS D.P.		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD		
BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS RUN		
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD			
TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: VISUALLY INSPECT BRAKES, LINKAGE, CROWN SAVER, B.O.P. Drillers walk about every 4 hours.

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT		m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	D.C. ID	OD	m
	STB RMR	OD	m
	STANDS DP		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD		
BIT No.		
SIZE		
MFG.		
TYPE		
JETS mm		
SER. No.		
DEPTH OUT		
DEPTH IN		
TOTAL METRES DRILLED		
TOTAL HRS RUN		
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD			
TIME			
DENSITY kg/m³			
PRESSURE GRADIENT			
VISCOSITY			
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: INSPECT BRAKES, LINKAGE, ACCUMULATOR & BOP'S

DRILLER: [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION: [signature]

LAST CASING TUBING OR LINER

OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
244.5	226	PRUD.	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
				FUEL @ 06:00 - 6591								
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	RIG SERV. (NO BOP. FUNC.) DRILLERS WALKABOUT
00:15	07:00	6.75	14	NIPPLE UP B.O.P, CLEAN MUDTANKS, WORK ON PUMPS
07:00	07:15	.25	7	Rig serv (No BoP. Ft.) Drillers Walkabout.
07:15	11:00	3.75	14	Nipple up B.O.Ps, clean Mud Tanks, work on Pumps,
11:00	12:00	1.0	21	Change out Annular Rubber for Invert.
				WELD ON MUDTANKS [illegible]

BOILER HOURS: 12 HRS 1+2

METRES DRILLED FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
~~0200~~				Finish changing Annular rubber, change out
	1800	6.0	21	Pipe Ram Rubbers, Blind Ram Rubbers,
1800	19:00	1.0	14	Finish Nipple up BoP.s.
19:00	1915	.25	7	Rig SERV. Ft (~~[illegible]~~, Blinds, Lower Pipes) DRILLERS WALKABOUT
19:15	24:00	4.75	14	FINISH NIPPLE UP. BOPS, CHANGE HEADS & LINERS IN PUMP
				PREPARE MUD TANKS FOR INVERT MUD.
				TEAR OUT SWEEP LINE TO MAN SHACK & MOVE IT UP
				WELD ON MUDTANKS [illegible]
				~~weld on bracket for flow show~~

BOILER HOURS: 12 HRS 1+2.

FORM 2T6m APPROVAL PENDING CAODC APPROVED Revised December 1986 COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-126		98 01 17

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHIAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.	3.0	
15	TEST B.O.P.	1.0	5.0
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	CHANGE HEADS & LINERS	7.5	
22	work on Premix		2.0
23	PREPARE F/INVERT		4.75
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: Check Brakes, linkages, Crown Saver, BOP's Manifold, Remote choke, HCR-kill valves, Accumulator all lines + guages

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
	BIT	m	BIT No.		TIME	
			SIZE		DENSITY kg/m³	
	STB RMR OD	m	MFG.		PRESSURE GRADIENT	
	D.C. ID OD	m	TYPE		VISCOSITY	
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/ /
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/ /
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³	
			DEPTH IN		pH	
			TOTAL METRES DRILLED		SOLIDS %	
			TOTAL HRS. RUN			
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED	
	SINGLES DP	m	FLOW RATE m³/min	/ /	TYPE / AMT. kg / TYPE / AMT. kg	
	KELLY DOWN	m	PRESSURE DROP kPa			
	TOTAL	m				
	(FORCE) WT. OF STRING	daN				

REMARKS: VISUALLY INSPECT BRAKES, LINKAGE, CROWN SAVER B.O.P. LINES, MANIFOLD VALVES, + ACCUMULATOR.

DRILLER: [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
pump-stroke length = millimetre (mm)
weight of string = decanewton (daN)
weight on bit: indicator will record decanewton
linear mass = kilogram per metre (kg/m)
viscosity = second per litre (s/L)
flow rate = cubic metre per minute (m³/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second (mPa•s)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial [initials]
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial [initials]
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial [initials]
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
2.26	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	PRUD	53.3	K-55	45	590.4	5.03	589

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL. P COM'D. C
				FUEL @ 06:00 - 9457 l								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS. 1 + 2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	RIG SERV. & DRILLERS WALK AROUND
00:15	03:15	3.00	14	FINISH NIPPLE UP B.O.P.'S
03:15	07:00	3.75	21	CHANGE HEADS & LINERS ON PUMPS
07:00	07:15	.25	7	Rig serv. Full Ft. Annular, Blinds, Pipes, HCR (Driller walkaround)
07:15	11:00	3.75	21	Finish working on Pumps, Prepare for Pressure test.
11:00	12:00	1.0	15	Press. Test manifold valve #1 #2 #3 #4, Blind Rams, inside kill valve
				Press Test 2000 kPA Low 15 min 19000 HIGH 15 min.

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR.EL. P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
17:00	17:00	5	15	Press. Test manifold valve #5, #6, #7, #8, #9, #10, #11 choke #1 choke #2, valve #12 + OUTSIDE HCR VALVE
17:00	19:00	2	22	Work on Premix Tank.
19:00	19:15	.25	7	RIG SERV. (FT BLIND, PIPE RAMS) DRILLER WALKABOUT.
19:15	24:00	4.75	23	PREPARE RIG FOR INVERT MUD, CLEAN UP RIG, RIG UP FLOOR
				Check all guages in manifold, and Chimo.
				Press Test 2000 kPA Low 15 min 19000 HIGH 15 min.
				Weld on Braket for Flow show.

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK ~~OIL~~ ~~ETP~~		C-17-65-10-126		98 01 18

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature]

D.P. SIZE	kg/m	GRADE	TOOL JT. O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		5.0
7	LUBRICATE RIG	.5	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		3.0
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	PREPARE FOR INVERT	11.5	3.75
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	m	BIT No.		TIME			
			SIZE		DENSITY kg/m³			
	STB RMR OD	m	MFG.		PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE		VISCOSITY			
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³			
			DEPTH IN		pH			
			TOTAL METRES DRILLED		SOLIDS %			
			TOTAL HRS. RUN					
	STANDS D.P.	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa					
	TOTAL	m						
	(FORCE) WT. OF STRING	daN						

REMARKS: BLIND RAMS CLOSE 6 SEC. PIPE RAMS CLOSE 6 SEC
- CHANGE SHAKER SCREENS SHAKER #1 - 3x140, #2 - 3x140
FT. Crown Saver

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	m	BIT No.		TIME			
			SIZE		DENSITY kg/m³			
	STB RMR OD	m	MFG.		PRESSURE GRADIENT			
	D.C. ID OD	m	TYPE		VISCOSITY			
	STB RMR OD	m	JETS mm		PV YP mPa•s Pa	/	/	/
	D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/	/
	STB RMR OD	m	DEPTH OUT		WATER LOSS cm³			
			DEPTH IN		pH			
			TOTAL METRES DRILLED		SOLIDS %			
			TOTAL HRS. RUN					
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	m	PRESSURE DROP kPa					
	TOTAL	m						
	(FORCE) WT. OF STRING	daN						

REMARKS: Pipe Rams close 6 sec, Blinds close 6 sec.
Check Brakes, Linkages, crown Saver. man. fold shack.
Remote choke, BOP's, HCR + kill valves. Accumulator.

DRILLER: [signature]

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:
- mud density = kilogram per cubic metre (kg/m³)
- pump stroke length = millimetre (mm)
- weight of string = decanewton (daN)
- weight on bit: indicator will record decanewton
- linear mass = kilogram per metre (kg/m)
- viscosity = second per litre (s/L)
- flow rate = cubic metre per minute (m³/min)
- pressure gradient = kilopascal per metre (kPa/m)
- yield point = pascal (Pa)
- plastic viscosity = millipascal second (mPa•s)
- gel strength = pascal (Pa)
- work completed by wire line = megajoule (MJ)
- inside diameter and outside diameter = millimetre (mm)
- pump pressure = kilopascal (kPa)

E.R.C.B.	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial [signature]
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial [signature]
(3) H_2S Signs Posted (if required)	Initial	Initial [signature]

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial [signature]
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial [signature]
(3) Mast Inspected Before Raising or Lowering	Initial [signature]

LEGAL LAND DESCRIPTION

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 6435

CUMULATIVE MEGAJOULES: 74296.

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	PRUD	53.3	K-55	45	590.4	5.03	589

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
				FUEL @ 0600 10890								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:15	.25	7	RIG SERV. (FT BLIND + PIPE RAMS) DRILLER WALKABOUT
00:15			21	PREPARE F/ INVERT MUD, CLEAN RIG, RIG TO PICK UP BHA
	07⁰⁰	6.75		INSTALL NEW WINCH LINE
07⁰⁰	0715	.25	7	Rig serv. (Ft Pipe + Blind Rams) Drillers walkabout
0715	12:00	4.75	21	Prepare F/INVERT, Finish Cleanup.

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12 HRS 1+2.

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	14:00	2.0	21	Prepare F/ INVERT MUD. Clean Rig Prepare floor.
14:00	16:00	2.0	6	RIH OPEN ENDED FOR PRESS. TESTING.
16:00				Press Test, Pipe Rams, Stab valve, Annular, Inside BOP.
	19:00	3.0	15	HCR, Outside K.Ill valve
19:00	19:15	.25	7	RIG SERV. (FT. HYDRIL CLOSE 3 SEC) DRILLER WALKABOUT
19:15	21:00	1.75	21	PREPARE F/INVERT GEL TANK GATES, HOOK UP HOLEFILL, FILL PREMIX
21:00	24:00	3.00	6	P.O.O.H TO PICK UP BHA. (LAY DOWN 12 DP)
				Press Test 2000 KPA Low. 15 min
				14000 KPA HIGH 15 min.
				Annular 14500 KPA HIGH 15 min Low 2000 KPA 15 min.

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT — REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-126		98 01 19

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHENTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Tom

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial — R.M. Initial
(2) Detailed Inspection-Weekly (using check list) — Initial — Initial
(3) H₂S Signs Posted (if required) — Initial — Initial
(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial
(3) Mast Inspected Before Raising or Lowering — Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	PRUD	53.6	K-55	45	592.4	5.03	589

WIRE LINE RECORD — REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		.25
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		1.0
6	TRIPS	4.50	5.5
7	LUBRICATE RIG	.50	.50
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	SAFETY MTNG	.50	
22	BLOW KELLY & TIGHTEN BOLTS	1.00	
23	Prepare for Invert	5.50	
24	PERF'R'TN		3.0
25	W/BO TRIPS		7.5
26	CLEAN FLOW LINE		1.0
	TOTALS	12	12

COMPLETION: A. PERF'R'TN; B. W/BO TRIPS; C. TREATING; D. SWABBING; E. TESTING; F. ADDIT'N'L; G.

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS

TOTAL MUD COST

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.25	m
1	B/S 4 FLOAT	.85	
1	STB RMR SS OD	2.88	m
1	D.C. ID MONEL OD	9.05	
5	STB RMR 171 OD	46.66	m
1	D.C. ID JARS OD	4.80	m
13	STB RMR 171 OD	120.90	m
1	x/o	.50	
6	HWDP	55.18	
	BHA	241.07	
	STANDS D.P.		m
	SINGLES DP		m
	KELLY DOWN		m
	TOTAL		m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	
SIZE	222
MFG.	H.W.
TYPE	ATJ 35C
JETS mm	3x 11.9
SER. No.	B084X
DEPTH OUT	
DEPTH IN	589
TOTAL METRES DRILLED	
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa•s / YP Pa	/
GEL STR. Pa	/
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Gel	13 sx		
HOT LIME	6 sx		

REMARKS: FUNCTION TEST BLIND RAMS WHILE OUT OF HOLE CLOSED IN 6 SEC. HELD SAFETY MTNG. ON INVERT MUD + RECEIVED NEOPRENE SUITS, FIRE RETARDANT COVERALL & GLOVES
Shaker screens 140 x 6

DRILLER: Steven J. Robert

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.25	m
1	B/S W FLOAT	.85	
1	STB RMR SS OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR 171 OD	46.66	m
1	D.C. ID JARS OD	4.80	m
13	STB RMR 171 OD	120.90	m
1	x/o	.50	
6	HWDP	55.18	
	BHA	241.07	
12	STANDS DP	338.63	m
	SINGLES DP		m
	KELLY DOWN	11.30	m
	TOTAL	591.00	m
	(FORCE) WT. OF STRING		daN

BIT RECORD

BIT No.	4
SIZE	222
MFG.	HW
TYPE	ATJ35C
JETS mm	3x11.9
SER. No.	B08YX
DEPTH OUT	
DEPTH IN	589
TOTAL METRES DRILLED	2
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	/
PRESSURE DROP kPa	

MUD RECORD

TIME	
DENSITY kg/m³	
PRESSURE GRADIENT	
VISCOSITY	
PV mPa•s / YP Pa	/
GEL STR. Pa	/
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: Accumulator Press. Function Test. 20500 KPA ORIGINAL OPERATING PRESSURE. OPEN HCR 18300 Remain. close Annular, 15000 Remain. close Pipe Rams 13900 Remaining, Remain Press. 13900. charge time 2min. Charge Press 21000

DRILLER: Bruce Gale

Nitrogen Bottles 1 2200, 2 2100, 3 1850, 4 2100

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. LINER SIZE	PUMP No. STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
				FUEL @ 0600 6305								
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12, 1 & 2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	00:30	.50	7/21	Rig Service Safety meeting function Blind Rams Close
00:30	05:00	4.50	6	R.I.H (PICKUP 3 DC & 6 HWDP)
05:00	06:00	1.0	22	PICK UP & BLOW KELLY, TIGHTEN KELLY SPIN BOLT
06:00	07:00	1.0	23	FINISH GEL OFF PUMP GATES ON MUD TANKS, CHG LOW KCL
07:00	07:15	.25	7	Rig Service. FT Annular close 10 sec., Drillers walk about.
07:15	07:30	.25	21	Safety meeting Prior to Invert. Discuss working w/ Invert
07:30	12:00	4.50	23	PREPARE TANKS FOR INVERT - INSTALL NEW SURVEY LINE

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. LINER SIZE	PUMP No. STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
589	591	2					6000	152	125			
							1280	152	62			
					REDUCED PUMP SPEED		1280	152	62			

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

BOILER HOURS: 12, 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	15:00	3.0	24	DISPLACE H_2O OUT OF HOLE w/ DIESEL + PUMP DIESEL INTO MUD TANKS + circ manifold.
1500	1515	.25	7	Rig Service Ft Lower Pipes close 6 sec, Drillers walk about
1515	1615	1.0	25/2	Drill out Shoe + Float collar - Drill 589-591
1615	1715	1.0	5	Circ. clean Hole.
1715	19:00	1.75	6	Trip for plugged Jets
19:00	19:15	.25	7	RIG SERV. (FT HYDRIL CLOSE 9 SEC) DRILLERS WALKABOUT
19:15	21:00	1.75	6	P.O.O.H TO CHECK JETS
21:00	23:00	2	6	CHNGE JETS + R.I.H
23:00	24:00	1.0	26	ATTEMPT TO CIRC. + CLEAN OUT FLOW LINE

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
RANGER NOTA CREEK		C-17-65-10-126		98 01 20 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHENTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Ned Speeks

D.P. SIZE	kg/m	GRADE	TOOL JT O.D	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
1 1/4	24.7	E	156	4½ XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD	SET AT
	244.5	226	PRUD	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT ~~2446~~

CUMULATIVE MEGAJOULES ~~75587~~

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	5.50	8.75
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.50	
6	TRIPS		
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		2.25
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		.50
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	CLEAN FLOW LINE	3.75	
22	LEAK OFF TEST	.75	
23	SFTY MTNG	.25	.25
24	BOP DRILL	.25	
25	Clean screens	.50	
COMPLETION A	PERF'R'T'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		

No. OF DAYS FROM SPUD

CUMULATIVE ROTATING HRS

TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.25	m
1	B/S w/FLT	.85	
1	STB RMR SS OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR 171 DC OD	46.66	m
1	D.C. ID JARS OD	4.80	m
13	STB RMR 171 DC OD	120.90	m
1	X/O	.50	
6	HWDP	55.18	
	BHA	241.07	
	STANDS D.P.		m
39	SINGLES D.P.	367.23	
	KELLY DOWN	6.70	m
	TOTAL	6[illegible]	m
	(FORCE) WT. OF STRING	53,000	daN

BIT RECORD	
BIT No.	4
SIZE	222
MFG.	HUGHES
TYPE	ATJ 35C
JETS mm	3 x 11.9
SER. No.	B08YX
DEPTH OUT	OBD
DEPTH IN	589
TOTAL METRES DRILLED	24
TOTAL HRS. RUN	5.75
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD	
TIME	
DENSITY kg/m³	Diesel
PRESSURE GRADIENT	
VISCOSITY	
PV mPa*s / YP Pa	/ /
GEL STR. Pa	/ /
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
HOT LIME	20 SX		

REMARKS VISUALLY INSPECT BRAKES, LINKAGE, CROWN SAVER B.O.P's, MAN. VALVES, REMOTE CHK, HCR & KILL VALVES ACCUM., LINES & GAGUES

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.25	m
1	B/S w/FLT	.85	
1	STB RMR SS OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR 171 DC OD	46.66	m
1	D.C. ID JARS OD	4.80	m
13	STB RMR 171 DC OD	120.90	m
1	X/O	.50	
6	HWDP	55.18	
	BHA	241.07	
	STANDS D.P.		m
44	SINGLES D.P.	414.46	m
	KELLY DOWN	6.47	m
	TOTAL	662	m
	(FORCE) WT. OF STRING	54,000	daN

BIT RECORD	
BIT No.	4
SIZE	222
MFG.	HUGHES
TYPE	ATJ 35C
JETS mm	3 x 11.9
SER. No.	B08YX
DEPTH OUT	
DEPTH IN	589
TOTAL METRES DRILLED	98
TOTAL HRS. RUN	14.5
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD	
TIME	
DENSITY kg/m³	.85 Diesel
PRESSURE GRADIENT	
VISCOSITY	29
PV mPa*s / YP Pa	/ /
GEL STR. Pa	/ /
WATER LOSS cm³	
pH	
SOLIDS %	

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
HOT LIME	30 SX		
CALCIUM	40 SX		
CHEMUL	1 SX		
CHEMUL	1 SX		

REMARKS HELD SAFETY MEETING W/ CREW + CONSULTANT ON SHUT-IN PROCEDURE + FLARE TANK IGNITION + SCOTT PAC'S, INVERT DRILLING VISUALLY INSPECT CROWN SAVER, BRAKE LINKAGE, MAN. VALVES ACC. LINES + GAUGES, REMOTE CHOKE, HCR + KILL VALVES.

DRILLER [signature]

METRES DRILLED FROM	TO	DR. D. RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S.P. PARE'D P. COM'D C
591	613	22		FUEL @ 0600 10890	60	15/16	4500	152		152		
					REDUCED PUMP SPEED		1160	152	63			RSC

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
Leak off test								
Applied Surface Press - 9340.								
HYDROSTATIC Press 4911								

BOILER HOURS 12 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	03:45	3.75	21	TAKE OFF FLOW LINES & CLEAN OUT ICE & CEMENT
03:45	04:00	.25	7	RIG SERV. (FT PIPERAMS CLOSE 6 SEC) DRILLER WALKABOUT
04:00	04:30	.50	5	CIRC.
04:30	05:15	.75	2	DRILL 222mm HOLE (FR 591-592.5m)
05:15	06:00	.75	22	PERFORM LEAK-OFF TEST ON FORMATION (24.8 kPa/m PRESSURE GRADIENT)
06:00	06:15	.25	23	HELD SAFETY MTNG w/CREW & CONSULTANT ON INVERT & SHUT-IN PROCEDURE
06:15	06:30	.25	24	B.O.P DRILL w/CREW
06:30	07:15	.75	2	DRILL 222mm HOLE (FR. 592 - 594
07:15	07:30	.25	7	Rig Serv. Ft Annular clos=10 sec (Drillers walk about)
07:30	11:30	4.0	2	Drill 222mm Hole Fr 594m - 613m
11:30	12:00	.50	25	Clean screens & connection.

METRES DRILLED FROM	TO	DR. D. RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S.P. PARE'D P. COM'D C
613	662	49			60	16	5400	152	75	152	75	
					45	16	1290	152	75			RSC
					REDUCED PUMP SPEED							

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
604m	.2	A22-148						

BOILER HOURS 12 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:15	1.25	2	DRILL 222 mm HOLE (FR 613-621m)
13:15	13:45	.50	10	CIRC. + SURVEY
13:45	15:30	1.75	2	DRILL 222 mm (FR 621-630m)
15:30	15:45	.25	7	RIG SERVICE FT. HCR (DRILLERS WALK AROUND)
15:45	17:15	1.50	2	DRILL 222mm HOLE (FR. 630-640m)
17:15	17:30	.25	23	SAFETY MEETING + BOP DRILL W/CREW + CONSULTANT
17:30	19:00	1.50	2	DRILL 222 mm HOLE (FR. 640-649m)
19:00	19:30	.50	8	CHANGE OUT WASHPIPE W/SPARE
19:30	20:30	1.00	2	DRILL 222 mm HOLE (FR. 649m-653)
20:30	22:15	1.75	8	CHANGE OUT SPARE WASHPIPE w/original (re-build orig.)
22:15	24:00	1.75	2	DRILL 222mm HOLE (FR. 653-662)

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Nota Creek		C-17-65-10-12G		98 01 21 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shehtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	National	8P80	216
						2	National	8P80	216

E.R.C.B.
(1) Daily Walk Around Inspection — OPR. Initial ___ R.M. Initial ___
(2) Detailed Inspection-Weekly (using check list) — OPR. Initial ___ R.M. Initial ___
(3) H_2S Signs Posted (if required) — OPR. Initial ___ R.M. Initial ___

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ___
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — R.M. Initial ___
(3) Mast Inspected Before Raising or Lowering — R.M. Initial ___

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT
	244.5	226	Prud	53.57	K-55	45	550.4	5.03	589

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 7302

CUMULATIVE MEGAJOULES: 75764

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	11.25	8.75
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.50	.50
8	REPAIR RIG		2.0
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.25	.75
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21			
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.25 m	
1	B/S w/float	.85	
1	STB RMR S.S. OD	2.88 m	
1	D.C. ID Monel OD	9.05 m	
5	STB RMR 171 DX OD	46.66 m	
1	D.C. ID Jars OD	4.80 m	
13	STB RMR 171 DX OD	120.90 m	
1	X/O	.50	
6	HWDP	55.18	
	B.H.A.	241.07	
	STANDS D.P.	m	
50	SINGLES DP	470.68 m	
	KELLY DOWN	10.25 m	
	TOTAL	722.00 m	
	(FORCE) WT. OF STRING	55,000 daN	

BIT RECORD	
BIT No.	4
SIZE	222
MFG.	Hughes
TYPE	ATJ35C
JETS mm	3 X 11.9
SER. No.	B084X
DEPTH OUT	0BD
DEPTH IN	589
TOTAL METRES DRILLED	133
TOTAL HRS. RUN	25.75
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD	INVERT		
TIME	0245	10⁰⁰	12⁰⁰
DENSITY kg/m³	860	860	860
PRESSURE GRADIENT			
VISCOSITY	31	31	31
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %	OVER	UNDER	
CENTRIF. tubes	855	1540	

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
HOTLINE	10 sks		
CALCLO	10 sks		
Water	1000 litre		

REMARKS: Check Brakes, Linkages, crown saver, manifold shack, all guages, BOP's, HCR, kill line, Accumulator. Remote choke.

DRILLER: [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
1	bit	.25 m	
1	B/S w/float	.85	
1	STB RMR S.S. OD	2.88 m	
1	D.C. ID Monel OD	9.05 m	
5	STB RMR 171 DX OD	46.66 m	
1	D.C. ID Jars OD	4.80 m	
13	STB RMR 171 DX OD	120.80 m	
1	X/O	.50	
6	HWDP	55.18	
	BHA	241.07	
	STANDS DP	m	
54	SINGLES DP	509.36	
	KELLY DOWN	12.57 m	
	TOTAL	763 m	
	(FORCE) WT. OF STRING	57000 daN	

BIT RECORD	
BIT No.	4
SIZE	222
MFG.	Hughes
TYPE	ATJ35C
JETS mm	3 X 11.9
SER. No.	B084X
DEPTH OUT	
DEPTH IN	589
TOTAL METRES DRILLED	174
TOTAL HRS. RUN	34.5
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD	INVERT		
TIME	14:00	17:00	
DENSITY kg/m³	860	870	
PRESSURE GRADIENT			
VISCOSITY	31	31	
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %	OVER	UNDER	
CENTRIF. tubes	860	1535	

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
Calcol	155 kg		
WATER	2400 l		

REMARKS: MACP = 5692 w/860 wt.
Visually inspect brake linkage, accumulator, crown saver.
✓ Kill line, HCR + man. valves, BOP's

DRILLER: [signature]

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PARTIAL P. COMP. C.
662	722	60		Fuel at 6.00 10317	50	16	6100	152	80	152	80	
					REDUCED PUMP SPEED		980		65	152	65	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
662	.6°							
Azmith 480° ~~NE 50m 30°~~								

BOILER HOURS: 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0115	1.25	2	Drill 222 mm Hole Fr/ 662m - 668m.
0115	0130	.25	7	Rig serv. Ft Annular close loses (Drillers walk about.)
0130	0145	.25	10	Circ + survey.
0145	0845	7.00	2	Drill 222mm Hole Fr/ 668m - 706m
0845	0900	.25	7	SERVICE RIG FT. PIPE RAMS (DRILLERS WALK AROUND)
0900	12⁰⁰	3.00	2	DRILL 222mm HOLE (FR. 706 - 722)

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PARTIAL P. COMP. C.
722	763	41			50	16	5500	152	75	152	75	
					REDUCED PUMP SPEED		1600	152	75			RSC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
708	.9	[redacted]	731	1.2				

BOILER HOURS: 12 HRS 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12⁰⁰	13⁰⁰	1.00	2	DRILL 222mm HOLE (FR 722 - 724m)
13⁰⁰	13¹⁵	.25	7	Rig Service FT. REMOTE CHOKE
13¹⁵	13³⁰	.25	10	CIRC. + SURVEY
13³⁰	16³⁰	3.00	2	DRILL 222 mm HOLE (FR. 724 - 739
16³⁰	17⁰⁰	.50	10	CIRC. + SURVEY
17⁰⁰	2000	3.0	2	DRILL 222 mm HOLE (FR. 739 - 754
2000	2015	.25	7	Rig serv. Ft/ Annular close 10 sec. (Driller's walk about)
2015	2200	1.75	2	Drill 222mm Hole Fr 754 - 763
2200	2400	2.0	8	Work on wash pipe.

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
Ranger Noto Creek		C-17-65-10-12-G		98 01 22 (Yr. Mo. Day)

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil LTD.	Shehtah Drilling Ltd	DE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	M Speed

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	National	8P80	216
						2	National	8P80	216

E.R.C.B.
(1) Daily Walk Around Inspection — Initial OPR. ___ Initial R.M. ___
(2) Detailed Inspection-Weekly (using check list) — Initial ___ Initial ___
(3) H_2S Signs Posted (if required) — Initial ___ Initial ___

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — Initial R.M. ___
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ___
(3) Mast Inspected Before Raising or Lowering — Initial ___

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	Prud	53.3	K-55	45	590.4	5.03	589.

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 7856

CUMULATIVE MEGAJOULES: 75718

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	9.00	10.
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		.25
6	TRIPS		
7	LUBRICATE RIG	.25	.50
8	REPAIR RIG	225	
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.50	1.0
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	BOP DRILL		.25
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
1	BIT	.25 m
1	B/S w/float	.85
1	STB RMR SS OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 DC OD	46.66 m
1	D.C. ID JARS OD	4.80 m
13	STB RMR 171 DC OD	120.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	241.07
20	STANDS D.P	565.7 m
	SINGLES DP	m
	KELLY DOWN	6.22 m
	TOTAL	813.00 m
	(FORCE) WT. OF STRING	57,000 daN

BIT RECORD	
BIT No.	4
SIZE	222
MFG.	Hughes
TYPE	ATJ35G
JETS mm	3x11.9
SER. No.	B084X
DEPTH OUT	OBD
DEPTH IN	589
TOTAL METRES DRILLED	234
TOTAL HRS. RUN	43.5
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD			
TIME	2:00	6:00	
DENSITY kg/m³	870	860	
PRESSURE GRADIENT			
VISCOSITY	31	31	
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS % 600	Over	under	
Centre fuge	845	1875	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Diesel	9m³	Hot Lime	6sk
H2O	1m³	Calclor	8sk
Chem I	1 BARL		
Chem II	1 BARL		

REMARKS: Check Brakes, Linkages, Crown Saver, BOP's HCR, kill line valves, all guages, manifold shack, Accumulator. Remote choke.

DRILLER: Brian Cook

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/float	.85
1	STB RMR SS OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 DC OD	46.66 m
1	D.C. ID JARS OD	4.80 m
13	STB RMR 171 DC OD	120.80 m
1	X/O	.50
6	HWDP	55.18
		241.07
	STANDS DP	m
65	SINGLES DP	603.85 m
	KELLY DOWN	8.08 m
	TOTAL	862 m
	(FORCE) WT. OF STRING	58000 daN

BIT RECORD	
BIT No.	4
SIZE	222
MFG.	Hughes
TYPE	ATJ35G
JETS mm	3x11.9
SER. No.	B084X
DEPTH OUT	
DEPTH IN	589
TOTAL METRES DRILLED	273
TOTAL HRS. RUN	53.5
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD			
TIME	14:00	17:00	2300
DENSITY kg/m³	855	860	860
PRESSURE GRADIENT			
VISCOSITY	30	31	31
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %	Over	under	
Centre fuge	845	1965	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg

REMARKS: VISUALLY INSPECT BRAKE LINKAGE, REMOTE CHOKE, HCR, KILL LINE VALVES, CROWN SAVER, MAN. SHACK VALVES + GAUGES BOP DRILL + SAFETY MEETING HELD W/CREW @ 832m

DRILLER: Mark Carpenter

METRES DRILLED

FROM	TO	DR. D RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PARE'L D. COM'D. C
763	813	50		Fuel at 6:00 8024	50	16	5500	152	75	152	75	
					REDUCED PUMP SPEED		1000			152	66	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	773	1°							
	A 2m.th	47°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	0215	2.25	8	Work on wash pipe
0215	0630	4.25	2	Drill 222mm Hole Fr. 763-786
0630	0700	.50	10	Circ + Survey.
0700	0800	1.00	2	DRILL 222mm HOLE (FR. 786-790m)
0800	0815	.25	7	RIG SERVICE - FT. HCR (DRILLERS WALK AROUND)
0815	1200	3.75	2	DRILL 222mm HOLE FR. 790-813

BOILER HOURS: 12 hrs. 1+2

METRES DRILLED

FROM	TO	DR. D RM. R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PARE'L D. COM'D. C
813	862	49			50	14/15	5570	152	75	152	75	
					REDUCED PUMP SPEED		1600	152	75			RSC

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	824m	1.6		839	1.2				
	Azmith	49°		Azmith	72°				

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1300	1.00	2	DRILL 222mm HOLE (Fr. 813-819m)
1300	1315	.25	7	Rig SERVICE - FT. PIPE RAMS (DRILLERS WALK AROUND)
1315	1600	2.75	2	DRILL 222mm HOLE (FR. 819-832m)
1600	1615	.25	21	BOP DRILL - WELL SECURE IN 2 min. 30 SEC'S. (SAFETY MEETING)
1615	1645	.50	10	CIRC. + SURVEY
1645	2000	3.25	2	DRILL 222mm HOLE (FR. 832-847)
2000	2015	.25	7	Rig Service Ft Pipe Rams close 5sec (Drillers walk around)
2015	2115	1.0	2	Drill 222mm Hole (Fr 847-852)
2115	2145	.50	10	Circ + survey
2145	2200	.25	5	Circ up sample
2200	2400	2.0	2	Drill 222mm Hole (Fr 852-862)

BOILER HOURS: 12 hrs. 1+2

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek.		C-17-63-10-12G		98 01 23

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shehtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	[signature]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ X/H	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS		
CODE No. — OPERATION	FIRST TOUR	SECOND TOUR
1. RIG UP AND TEAR DOWN		
2. DRILL ACTUAL	8.25	2.75
3. REAMING		
4. CORING		
5. CONDITION MUD & CIRCULATE	2.00	1.25
6. TRIPS	.25	6
7. LUBRICATE RIG	.50	.25
8. REPAIR RIG		
9. CUT OFF DRILLING LINE		1.25
10. DEVIATION SURVEY	1.00	.50
11. WIRE LINE LOGS		
12. RUN CASING & CEMENT		
13. WAIT ON CEMENT		
14. NIPPLE UP B.O.P.		
15. TEST B.O.P.		
16. DRILL STEM TEST		
17. PLUG BACK		
18. SQUEEZE CEMENT		
19. FISHING		
20. DIR. WORK		
21.		
22.		
23.		
COMPLETION: A. PERF'R'T'N		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'N'L		
G.		
TOTALS	12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.	
HRS. W/OPR. D.P.	
HRS. WO/DP	
HRS. STANDBY	
TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
TOTAL MUD COST	

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	.25 m	BIT No.	4	TIME	02:00	06:00
1	B/S W/Float	.85	SIZE	222	DENSITY kg/m³	845	850
1	STB RMR S.S OD	2.88 m	MFG.	Hughes	PRESSURE GRADIENT		
1	D.C. ID Monel OD	9.05 m	TYPE	ATJ 35G	VISCOSITY	30	30
5	STB RMR 171 D6 OD	46.66 m	JETS mm	3x11.9	PV YP mPa•s Pa	/	/
1	D.C. ID SARS OD	4.80 m	SER. No	B084X	GEL STR. Pa	/	/
13	STB RMR 171 D6 OD	120.80 m	DEPTH OUT	916	WATER LOSS cm³		
1	X/O	.50	DEPTH IN	589	pH		
6	HWDP	55.18	TOTAL METRES DRILLED	327	SOLIDS %	under	over
		241.07	TOTAL HRS. RUN	61.75	Centre fuge	1950	845
23	STANDS D.P.	650.75 m	COND. 1/8's T/B/GAGE	5 5 WT E BT HRS.	MUD & CHEMICALS ADDED		
2	SINGLES DP	18.47 m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	5.71 m	PRESSURE DROP kPa				
	TOTAL	916.00 m					
	(FORCE) WT. OF STRING	58,000 daN					

REMARKS Change shaker screen's 3-175 while Tripping

DRILLER Brian Cecler

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	.25 m	BIT No.	5	TIME	23:00	
1	B/S W/Float	.85	SIZE	222	DENSITY kg/m³	845	
1	STB RMR S.S OD	2.88 m	MFG.	Hughes	PRESSURE GRADIENT		
1	D.C. ID Monel OD	9.05 m	TYPE	ATJ-33	VISCOSITY	31	
5	STB RMR 171 D6 OD	46.66 m	JETS mm	3x11.9	PV YP mPa•s Pa	/	/
1	D.C. ID SARS OD	4.80 m	SER. No.	H49YD	GEL STR. Pa	/	/
13	STB RMR 171 D6 OD	120.80 m	DEPTH OUT		WATER LOSS cm³		
1	X/O	.50	DEPTH IN	916	pH		
6	HWDP	55.18	TOTAL METRES DRILLED	25	SOLIDS %	OVER	UNDER
		241.07	TOTAL HRS. RUN	2.75	CENTRE FUGE	840	1590
	STANDS DP	m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
73	SINGLES DP	687.73 m	FLOW RATE m³/min	/ /	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	12.20 m	PRESSURE DROP kPa	PIPE FILL	Chemwet / Barrel		
	TOTAL	941 m	MEASURED -	6.91	HOT Line 18 sks		
	(FORCE) WT. OF STRING	59,000 daN	CALCULATED -	6.34	DIFF.	.58 m³	

REMARKS Flow as NEB Requirements
Function Blind Rams + Pipe Rams while out of hole + prior to pulling Bit #4
Visually Inspect Brake Linkage, Remote Choke, HCR
Function Crown Saver Prior to POOH.
Held Safety Meeting w/Crew

DRILLER [signature]

E.R.C.B. — OPR. — R.M.
(1) Daily Walk Around Inspection — Initial [illegible] — Initial [illegible]
(2) Detailed Inspection Weekly (using check list) — Initial [illegible] — Initial [illegible]
(3) H_2S Signs Posted (if required) — Initial [illegible] — Initial [illegible]

(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial [illegible]
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial [illegible]
(3) Mast Inspected Before Raising or Lowering — Initial [illegible]

LEGAL LAND DESCRIPTION RANGER NOTA CREEK C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	P(w)	53.3	K-55	45	590.4	5.03	589.

WIRE LINE RECORD — REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	16.2

METRES CUT OFF 16.2 — PRESENT LENGTH

MEGAJOULES SINCE LAST CUT 139

CUMULATIVE MEGAJOULES 76667

METRES DRILLED FROM	TO	OR. D. RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR'EL P. COM'D. C.
862	916	54		Fuel at 6:00 - 3152	50	15	5530	152	75	152	75	
					REDUCED PUMP SPEED		1600	152	75			RSC

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	868	1.5		891	1.8				
	Azmith	22°		AZMITH	57°				

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0345	3.75	2	Drill 222mm Hole Fr. 862 - 882
0345	0415	.50	10	Circ + survey.
0415	0430	.25	7	Rig Service Ft Annular close 10sec (Driller's walk around)
0430	0715	2.75	2	Drill 222mm Hole Fr. 882 - 899m
0715	0730	.25	7	SERVICE RIG - FT. HCR (DRILLERS WALK AROUND)
0730	0800	.50	10	CIRC. + SURVEY
0800	0945	1.75	2	DRILL 222mm HOLE (Fr. 899m-904) [illegible] 904-916
0945	1145	2.00	5	CIRC. + CLEAN HOLE (WATER WET CUTTINGS)
1145	1200	.25	6	HOIST BIT # 4 FLOW N @ 904 LAY 1 Single down

BOILER HOURS 12 HRS 1+2

METRES DRILLED FROM	TO	OR. D. RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR'EL P. COM'D. C.
916	941	25		Shaker screens	50	8/10	5560	152	75	152	75	
			#1	140, 140, 110								
			#2	140, 140, 140.	REDUCED PUMP SPEED		1650	152	75			RSC

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	912	1.8							
	Azmith	57°							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1430	2.50	6	HOIST BIT #4 - FUNTION CROWN SAVER + PIPE RAMS
1430	1515	.75	6	CHANGE BIT - FUNCTION BLIND RAMS WHILE OUT OF HOLE
1515	1615	1.00	6	RIH w/BIT #5 (DC'S - HWDP + 1 STD. OF D.P)
1615	1730	1.25	9	SLIP + CUT DRILLING LINE (16.2m)
1730	1830	1.00	6	RIH
1830	1845	.25	5	BREAK CIRC. @ 659m
1845	1930	.75	6	FINISH RIH
1930	2015	.75	5	Circ + Cond, Add Chemwet + OM + HOT LINE
2015	2030	.25	2	Drill Fr. 916 - 920 - w 8/10 OB.
2030	2045	.25	5	Circ + check cuttings + sample
2045	2100	.25	2	Drill Fr 920-923 w/8/10 OB.
2100	2115	.25	7	Rig Serv - ft Pipe Rams close 5 sec, Drillers walk around.
2115	2145	.50	2	Drill Fr 923-927 - w 8/10 OB.
2145	2215	.50	10	Circ + survey

2215-2400

BOILER HOURS 12 HRS. 1+2.

FORM 2T6m — APPROVAL PENDING — CAODC — APPROVED — Revised December 1986 — COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		980124

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SHEHTAH DRILLING LTD.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
	Neil Speers

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	~~[illegible]~~ 156	4½XH	232	1	National	8P80	216
						2	National	8P80	216

E.R.C.B.	OPR. Initial	R.M. Initial
(1) Daily Walk Around Inspection		
(2) Detailed Inspection Weekly (using check list)		
(3) H_2S Signs Posted (if required)		

	R.M. Initial
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	
(3) Mast Inspected Before Raising or Lowering	

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT
	244.5	226	Prud	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 2109

CUMULATIVE MEGAJOULES: 78637.

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10.0	10.75
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	1.75	.50
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Clean Screens		.50
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP.
HRS. STANDBY
TOTAL DAY WORK
No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
1	BIT	.25 m
1	B/S w/ Float	.85
1	STB RMR S.S. OD	2.88 m
1	D.C. ID Monel OD	9.05 m
5	STB RMR 171 DC OD	46.66 m
1	D.C. ID Jars OD	4.80 m
13	STB RMR 171 DC OD	120.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	241.07
27	STANDS D P	762.44 m
	SINGLES DP	m
	KELLY DOWN	5.49 m
	TOTAL	1009.03
	(FORCE) WT. OF STRING	61,000 daN

BIT RECORD		
BIT No.	5	5
SIZE	222	222
MFG.	Hughes	Hughes
TYPE	ATJ-33	
JETS mm	3X11.9	
SER. No	HLAYD	
DEPTH OUT	OBD	
DEPTH IN	916	
TOTAL METRES DRILLED	93	
TOTAL HRS RUN	12.75	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	300	500	10:00
DENSITY kg/m³	845	845	850
PRESSURE GRADIENT			
VISCOSITY	31	31	31
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %	Over	under	
Centre Fuge	840	1565	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Lime	16sks	H2O	2000L
Cal. Chl	32sks		
Chem I	50L		
Chem II	50L		

REMARKS: Safety meeting held w/ Crew, Check brakes linkage, Crown saver, BOPs, Kill + HCR valves, Accumulator, manifold shack, Remote choke, All gauges.

DRILLER: Brian Cooke

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/ Float	.85
1	STB RMR S.S. OD	2.88 m
1	Monel OD	9.05 m
5	STB RMR 171 DC OD	46.66 m
1	D.C. ID Jars OD	120.80 m
13	STB RMR 171 DC OD	4.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	241.07
	STANDS DP	~~845.97~~ m
90	SINGLES DP	845.97 m
	KELLY DOWN	4.96 m
	TOTAL	1092 m
	(FORCE) WT. OF STRING	61000 daN

BIT RECORD		
BIT No.	5	
SIZE	222	
MFG.	ATJ-33	
TYPE	Hughes	
JETS mm	3X11.9	
SER. No.	HLAYD	
DEPTH OUT		
DEPTH IN	916	
TOTAL METRES DRILLED	176	
TOTAL HRS. RUN	23.50	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min	/	/
PRESSURE DROP kPa		

MUD RECORD			
TIME	1300	1700	2300
DENSITY kg/m³	855	855	855
PRESSURE GRADIENT			
VISCOSITY	30	30	30
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %	OVER	UNDED	
CENTER FUGE	845	1570	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
CHEMWAT	100L		
HOT Lime	10SKS		
HOT Lime	10SK		

REMARKS: MAKP = 5692 KPA (WT. 855) HELD SAFETY MEETING WITH CREW RE: MUD ADDITIVES. √ CROWN SAVER, MAN. SHACK VALVES, KILL LINE + HCR VALVES. FT. REMOTE CHOKE √ BRAKE LINKAGE, + ACCUMULATOR GAUGES. FT. TEST H_2S MONITOR

DRILLER: Matt Farmer

METRES DRILLED

FROM	TO	DR. D RM R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
941	1009	68		Fuelat 6:00 10890	50	2/3	7460	152	75	152	75	
					REDUCED PUMP SPEED		2200	152	75			RSC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
940	2°		959	1.8°		993	1.2°	
Azmith	47°		Azmith	58°				

BOILER HOURS: 12 hrs. 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0600	0115	1.25	2	Drill 222mm Hole Fr. 941 - 954 w/ 7/8 OB.
0115	0145	.50	10	Circ + survey - 2°
0145	0445	3.0	2	Drill 222mm Hole Fr 954 - 974 (WOB Backed off to 2000 DN)
0445	0515	.50	10	Circ + survey - 1.8°
0515	0715	2.00	2	Drill 222mm Hole Fr. 974 - 988 WOB 2-3
0715	0730	.25	7	Rig SERVICE FT. HCR (DRILLERS WALK AROUND)
0730	1030	3.00	2	DRILL 222mm HOLE (988-1001m) WOB 4-5 DeC'S
1030	1115	.75	10	CIRC. + SURVEY
1115	1200	.75	2	DRILL 222mm HOLE (Fr. 1001 - 1009) WOB 8 DEC'S

METRES DRILLED

FROM	TO	DR. D RM R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL.P COM'D.C
1009	1092	83			50	2/3	6350	152	75	152	75	
					REDUCED PUMP SPEED		1840	152	75			RSC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1021	1°							

BOILER HOURS: 12 hrs. 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1430	2.50	2	DRILL 222mm HOLE (Fr. 1009 - 1029m) WOB 4-6 DEC'S
1430	1445	.25	7	RIG SERVICE - FT. PIPE RAMS (DRILLERS WALK AROUND)
1445	1515	.50	10	CIRC. + SURVEY.
1515	2030	5.25	2	DRILL 222mm HOLE (FR. 1029m - 1069) WOB 5 DEC'S
2030	2045	.25	21	Clean Pump Screens
2045	2315	2.50	2	Drill 222mm Hole (Fr 1069 - 1089) WOB. 3-5 Decs
2315	2330	.25	21	Clean Pump Screens
2330	2400	.50	2	Drill 222 mm Hole (Fr 1089 - 1092) 3-5 Decs

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek		C-17-65-10-12-G		980125

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shektah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Neil Speers

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	National	8P80	216
						2	National	8P80	216

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial	Initial	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	Prud	53.3	K-55	45	580.4	5.03	589

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 2556

CUMULATIVE MEGAJOULES: 79084

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10.25	9.25
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE		
6	TRIPS		
7	LUBRICATE RIG	.50	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	1.25	1.25
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Recalibrate Set Brakes		.50
22	H2S Alarms		.25
23	Change shaker screens		.50
COMPLETION	A. PERFORATING		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.
HRS. W/OPR. D.P.
HRS. WO/DP
HRS. STANDBY
TOTAL DAY WORK
No. OF DAYS FROM SPUD
CUMULATIVE ROTATING HRS
TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/Float	.85
1	STB RMR 5/5 OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 DC OD	46.66 m
1	D.C. ID Jars OD	120.80 m
13	STB RMR 171 DC OD	4.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	241.07
22	STANDS DP	902.68 m
2	SINGLES DP	19.28 m
	KELLY DOWN	12.80 m
	TOTAL	1175.81 m
	(FORCE) WT. OF STRING	63,000 daN

BIT RECORD		
BIT No.	5	
SIZE	222	
MFG.	ATJ-33	
TYPE	Hughes	
JETS mm	3x11.9	
SER. No.	H49YD	
DEPTH OUT	OBD	
DEPTH IN	916	
TOTAL METRES DRILLED	259	
TOTAL HRS. RUN	33.75	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	02:00	06:00	09:00
DENSITY kg/m³	855	850	855
PRESSURE GRADIENT			
VISCOSITY	31	31	31
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %	OVER	UNDER	
CENTRE FUGE	845	1465	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
DIESEL	9 m³	CHEM 1	20 L
WATER	1 m³	CHEM 2	20 L
HOT LIME	10 sk	CHEM WET OH	20 L
CHEM WET OM	1 BARREL		

REMARKS: MACP # 5721 at 855 Den. Held safety meeting w/ crew on WHMIS, discussed use and hazards of chemicals mixed w/ Invert. Check Brakes, Linkages, Crownsaver, BOP's Kill, HCR valves, Accumulator, Manifold shack gauges, Remote choke.

DRILLER: Brian Eck

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/FLOAT	.85
1	STB RMR 5/5 OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 DC OD	46.66 m
1	D.C. ID JARS OD	120.80 m
13	STB RMR 171 DC OD	4.80 m
1	X/O	.50
6	HWDP	55.18
	BHA	241.07
	STANDS DP	m
184	SINGLES DP	977.43 m
	KELLY DOWN	9.50 m
	TOTAL	1228 m
	(FORCE) WT. OF STRING	67,000 daN

BIT RECORD		
BIT No.	5	
SIZE	222	
MFG.	ATJ-33	
TYPE	Hughes	
JETS mm	3x11.9	
SER. No.	H49YD	
DEPTH OUT		
DEPTH IN	916	
TOTAL METRES DRILLED	312	
TOTAL HRS. RUN	43	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	13:00	18:00	23:00
DENSITY kg/m³	855	855	855
PRESSURE GRADIENT			
VISCOSITY	31	31	31
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %	OVER	UNDER	
CENT.	845	1465	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
HOT LIME	12 sks	HOT LIME	4 sks
CHEM WET	50 L		
TOL DEFOAMER	2 PAILS		

REMARKS: MACP = 5692 KPA @ 860 WT. ✓ CROWN SAVER ✓ KILL LINE + HCR VALVES, MANIFOLD SHACK VALVES, REMOTE CHOKE. H2S ALARMS ACTIVATED. MASK UP PROCEDURES DONE. H2S CHECKED, NEG. RESULTS. FAULTY EQUIPMENT

DRILLER: [signature]

METRES DRILLED

FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PARALL. P. COMP. C.
1092	1175	83		Fine Grained Sst	50	3/5	6220	152	75	152	75	
					REDUCED PUMP SPEED		1750	152	75			RSC

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1081	1°		1145	1.6°				
Azmith	170°		AZMITH					

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0030	.50	2	Drill 222mm Hole Fr 1092 - 1095
0030	0100	.50	10	Circ + Survey
0100	0145	.75	2	Drill 222mm Hole Fr 1095 - 1099
0145	0200	.25	7	Rig Serv. Ft Annular close 10sec Drillers walk around
0200	0945	7.75	2	Drill 222mm Hole (Fr. 1099 - 1166m)
0945	1000	.25	7	SERVICE RIG - FT. PIPE RAMS (DRILLERS WALK AROUND)
1000	1045	.75	10	CIRC. + SURVEY
1045	1200	1.25	2	DRILL 222mm HOLE (Fr. 1166 - 1175m) WOB 3 DR'S

BOILER HOURS: 12 HRS 1+2

METRES DRILLED

FROM	TO	DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PARALL. P. COMP. C.
1175	1228	53			50	3/4	6590	152	77	152	77	
					REDUCED PUMP SPEED		1200			152	64	

DEVIATION RECORD

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1190m	1.5		1209	2°	357			
AZ	2							

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1615	4.25	2	DRILL 222mm HOLE (FR. 1175 - 1198m) WOB 2-6
1615	1630	.25	7	RIG SERVICE - FT. HCR (DRILLERS WALK AROUND)
1630	1700	.50	10	CIRC. + SURVEY
1700	1815	1.25	2	DRILL 222mm HOLE (FR. 1198 - 1205) WOB 2-8
1815	1845	.50	28	CHANGE SHAKER SCREENS ON SHAKER # 1 (3x140)
1845	1945	1.0	2	DRILL 222mm HOLE (FR. 1205 - 1213)
1945	2015	.50	21	Recalibrate Hook Load + Set up Brakes
2015	2200	1.75	2	Drill 222mm Hole (Fr 1213 - 1222)
2200	2215	.25	22	H2S ALARMS ACTIVATED. MASK UP PROC. FOLLOWED. Fault in equipment
2215	2300	.75	2	Drill 222mm Hole Fr (1222 - 1226)
2300	2345	.75	10	Circ + Survey
2345	2400	.25	2	Drill 222mm Hole Fr (1226 - 1228)

BOILER HOURS: 12 hrs. 1+2

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek		C-17-65-10-12G		980126

OPERATOR	CONTRACTOR	RIG No.
Ranger O.A. Ltd.	Shehtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: Neil Spears / Cole Sarandoff

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	National	8P80	216
						2	National	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	2.75	2.5
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	8.50	9.25
6	TRIPS		
7	LUBRICATE RIG	.25	.25
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	Change screens	.50	
22			
23			
COMPLETION A	PERF'R'T'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.25	m
1	B/S w/Float	.85	
1	STB RMR 8/3 OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR 171 DC OD	46.66	m
1	D.C. ID JARS OD	120.80	m
13	STB RMR 171 DC OD	4.80	m
1	X/O	.50	
6	HWDP	55.18	
	BHA	241.07	
35	STANDS DP	986.65	m
	SINGLES DP		m
	KELLY DOWN	12.80	m
	TOTAL	1240.52	m

(FORCE) WT. OF STRING 67,000 daN

BIT RECORD

BIT No.	5
SIZE	222
MFG.	ATJ-33
TYPE	HUGHES
JETS mm	3X11.9
SER. No.	H49YD
DEPTH OUT	OBC
DEPTH IN	916
TOTAL METRES DRILLED	324
TOTAL HRS. RUN	45.75
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	02:00	06:00	10:00
DENSITY kg/m³	845	845	900
PRESSURE GRADIENT			
VISCOSITY	31	31	37
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %	Over	Under	
	850	1435	

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
OMV 100	60 SX	CHEM 2	85 L
HOT LIME	70 SX		
CALCIUM CHLORIDE	60 SX	WATER	10 M³
CHEM 1	85 L		

REMARKS MACP-5721 U 855 DEN. Check Brakes, linkages, Crown Saver BOP's, K.Ill + HCR valves, Accumulator, Manifold shut valves, All Guages Remote Choke Safety meeting held w/crew on H2S, Scott air pacs + dragger H2S sniffers.

DRILLER Brian Beck

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.25	m
1	B/S w/FLOAT	.85	
1	STB RMR 8.5 OD	2.88	m
1	D.C. ID MONEL OD	46.66	m
5	STB RMR 171 DC OD	120.80	m
1	D.C. ID JARS OD	9.05	m
13	STB RMR 171 DC OD	4.80	m
1	X/O	.50	
6	HWDP	55.18	
	BHA	241.07	
	STANDS DP		m
106	SINGLES DP	995.86	m
	KELLY DOWN	12.07	m
	TOTAL	1249	m

(FORCE) WT. OF STRING 67,000 daN

BIT RECORD

BIT No.	5
SIZE	222
MFG.	ATJ-33
TYPE	HUGHES
JETS mm	3x11.9
SER. No.	H49YD
DEPTH OUT	
DEPTH IN	916
TOTAL METRES DRILLED	333
TOTAL HRS. RUN	48.25
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD

TIME	13:00	18:00	22:00
DENSITY kg/m³	900	950	980
PRESSURE GRADIENT			
VISCOSITY	38	45	40
PV mPa*s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
CMV 100	40	CHEM WET on	1 BARREL
CALCIUM	30	CHEM WET on	245 L
HOT LIME			
BARITE	3243		

REMARKS MACP-

√ BRAKE LINKAGE, MAN. SHACK VALVES, HCR + KILL LINE VALVES, REMOTE CHOKE, √ CROWN SAVER. HELD SAFETY MEETING w/ CREW (SCOTT PACS)

DRILLER Mark Grouper

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H_2S Signs Posted (if required)	Initial [illegible]	Initial

a)

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial [illegible]
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial [illegible]
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT
	244.5	226	Pwj	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT: 2810

CUMULATIVE MEGAJOULES: 79338

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
1228	1240	12		Fuel at 6:00 6878			7100	152	75	152	75	Chimo
							7600	152	75	152	75	MAN. Sh.
					REDUCED PUMP SPEED		2200	152	75			Chimo RC
							2500	152	75			Man. Sh. F

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS 12 hrs. 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0145	1.75	2	Drill 222 mm Hole Fr. 1228 - 1236
0145	0215	.50	21	Change Shaker Screens #1 #2 - 50 X 140 X 140
0215	0315	1.0	2	Drill 222 mm Hole Fr 1236 - 1240
0315	0330	.25	7	Rig serv. Ft Annular close 10 sec Driller's walk around
0330	12:00	8.50	5	Tempt to make conn. to tite. Break off and circ + cond.

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
1240	1249	9		Shaker screens	Circ.		3600	152	90	~~152~~		Chimo
				#1 50 X 80 X 80	Circ.		3900	152	90			Man. Sh.
				#2 50 X 140 X 140	REDUCED PUMP SPEED		1100	152	45			Chimo
							1300	152	45			Man. Sh.

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
				2°				

BOILER HOURS 12 hrs. 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	14:15	2.25	5	Circ. + Cond. Invert (Work Pipe)
14:15	15:15	1.00	2	Drill 222 mm Hole (Fr. 1240 - 1243 m) WOB 3-5
15:15	15:30	.25	5	Circ. + Cond. Hole
15:30	16:00	.50	2	Drill 222 mm Hole Fr. 1243 - 1245 WOB 3-5
16:00	16:30	.50	5	Circ + Cond. Hole (mix)
16:30	17:00	.50	2	Drill 222 mm Hole Fr. 1245 - 1247 WOB 3-5
17:00	17:15	.25	7	Rig Service - Ft. HCR (Drillers Walk Around)
17:15	17:45	.50	2	Drill 222 mm Hole (Fr. 1247 - 1249 m) WOB 3-5
17:45	2400	6.25	5	Circ. + Cond. Mud (Mix Barite)

OFFICIAL DAILY DRILLING REPORT FORM

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek		C-17-65-10-12G		980127

OPERATOR	CONTRACTOR	RIG No.
Ranger Oil Ltd.	Shahtah Drilling Ltd.	IE

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Dale Bassendall

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½ XH	232	1	National	8P80	216
						2	National	8P80	216

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial [illegible]	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	Prad	53.3	K-55	45	590.4	5.03	589

WIRE LINE RECORD REEL No.

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	2.75	
3	REAMING	.25	
4	CORING		
5	CONDITION MUD & CIRCULATE	11.25	11.25
6	TRIPS	.50	
7	LUBRICATE RIG	.25	.50
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	SAFETY MTG		.25
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.25	m
1	B/S w/Float	.85	
1	STB RMR S.S. OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR 171 OD	120.80	m
1	D.C. ID JARS OD	9.05	m
1.3	STB RMR 171 OD	4.80	m
1	X/O	.50	
6	HWDP	55.18	
	BHA.	241.07	
35	STANDS D.P	986.65	m
1	SINGLES DP	9.21	m
	KELLY DOWN	12.80	m
	TOTAL	1249.73	
	(FORCE) WT OF STRING	67,000	daN

BIT RECORD

BIT No.	5	
SIZE	222	
MFG.	ATJ-33	
TYPE	HUGHES	
JETS mm	3x11.9	
SER. No.	H49940	
DEPTH OUT	OBC	
DEPTH IN	916	
TOTAL METRES DRILLED	333	
TOTAL HRS RUN	48.25	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		305K

MUD RECORD

TIME	100	0600	1000
DENSITY kg/m³	1000	1060	1080
PRESSURE GRADIENT			
VISCOSITY	43	43	45
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Chem I Lol	145L	Barite	250 sx
Chem II Lol	145L	Chem Wet	100L
Lime	[illegible]	KCL	154K
OMO 100	105L	OMV 100	153K

REMARKS Shaker screens #1-50x80x80 #2-140,140,140
Check Brakes, Linkages, Crown saver, Manifold [illegible], BOP's
HCR + Kill valves, Accumulator, all gauges, Remote choke.

DRILLER Brian Eccles

SECOND TOUR

DRILLING ASSEMBLY (at end of tour)

No.			
	BIT	.25	m
1	B/S w/Float	.85	
1	STB RMR S.S. OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR 171 OD	120.80	m
1	D.C. ID JARS OD	4.80	m
13	STB RMR 171 OD	48.66	m
1	X/O	.50	
6	HWDP	55.18	
	BHA	241.07	
35	STANDS DP	986.65	m
1	SINGLES DP	9.21	m
	KELLY DOWN	12.80	m
	TOTAL	1249.73	m
	(FORCE) WT OF STRING	67,000	daN

BIT RECORD

BIT No.	5	
SIZE	222	
MFG.	ATJ-33	
TYPE	HUGHES	
JETS mm	3x11.9	
SER. No.	H49940	
DEPTH OUT	OBC	
DEPTH IN	916	
TOTAL METRES DRILLED	333	
TOTAL HRS. RUN	48.25	
COND. 1/8's T/B/GAGE		
FLOW RATE m³/min		
PRESSURE DROP kPa		

MUD RECORD

TIME	1300	1800	2300
DENSITY kg/m³	1105	1125	
PRESSURE GRADIENT			
VISCOSITY	47	48	
PV YP mPa•s Pa	/	/	/
GEL STR Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
Barite	75 sx		
Chem. wet	100L		

REMARKS CHECK BRAKE LINKAGE, ACCUMULATOR, REMOTE CHOKE
√ HCR & KILL LINE VALVES, MAN. SHACK VALVES, BOP'S.
TEST H_2S MONITOR, √ CROWN SAVER.
MACP 4247 kPa w/ DENSITY OF 1110 kg/m³
FT ANNULAR & PIPE RAMS

DRILLER [illegible]

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
1249				Fuel at 6:00	circ.		6000	152	60	152	60	Chino
				4012	circ.		6300	152	60	152	60	Mans
					REDUCED PUMP SPEED		1800	152	60			RSC
							2100	152	60			RSC

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
0000	0145	1.75	5	Circ + COND. INVERT. MIX Barite
0145	0200	.25	3	Break o/f sgl. DP. Remote 1240. (13m. OPF. 11)
0200	0215	.25	5	Circ + COND (change screen on #2 shaker 50 to 14
0215	0230	.25	7	Rig Service (Ft HCR) (Ft Remote choke) (Drillers walk about
0230	1030	8.00	5	Circ + cond Invert
1030	1045	.25	7	RIG SERVICE - FT. PIPE RAMS (DRILLERS WALK AROUND)
1045	1200	1.25	5	CIRC. + COND INVERT

BOILER HOURS 112 HRS 1 + 2

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR.EL.P COM.D.C
1249					CIRC.		6650	152	124	152		
					REDUCED PUMP SPEED		1670	152	56			Chino

DEVIATION RECORD

DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
1200	1345	1.75	5	CIRC. + CONDITION INVERT
1345	1400	1.25	7	SERVICE RIG + FT. HCR 1240 (DRILLERS WALK AROUND)
1400	1500	1.0	5	CIRC. + CONDITION INVERT
1500	1515	.25	27	SAFETY MTG w/ CREW & CONSULTANT RE: WELL STATUS SHUT-IN & EMER. PROC.
1515	1900	3.75	5	CIRC. & COND. INVERT MUD
1900	1915	.25	7	RIG SERV. (FT. HYDRIL & PIPE RAMS) DUMP SAND TRAP (DRILLERS WALK AROUND)
1915	2400	4.75	5	CIRC & COND. INVERT MUD

BOILER HOURS 12 + HRS 1 + 2

OFFICIAL DAILY DRILLING REPORT FORM

No. 181

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
Ranger Nota Creek		C-17-65-10-12G		98 01 28

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Dale Bazanduff

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	156	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

E.R.C.B. (1) Daily Walk Around Inspection — OPR. Initial ___ R.M. Initial ___
(2) Detailed Inspection Weekly (using check list) — Initial ___ Initial ___
(3) H_2S Signs Posted (if required) — Initial ___ Initial ___
(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — R.M. Initial ___
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial ___
(3) Mast Inspected Before Raising or Lowering — Initial ___

LEGAL LAND DESCRIPTION RANGER NOTA CREEK C-17

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	PRUD	53	K.55	45	590.4	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	11.75	11.25
6	TRIPS		
7	LUBRICATE RIG	.25	
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	SAFETY MTG		.25
22	B.O.P DRILL		.25
23			
COMPLETION A	PERF'R'T'N		
B	TBG TRIPS		
C	TREATING		
D	SWABBING		
E	TESTING		
F	ADDIT'N'L		
G			
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P. | HRS. W/OPR. D.P. | HRS. WO/DP | HRS. STANDBY | TOTAL DAY WORK

No. OF DAYS FROM SPUD | CUMULATIVE ROTATING HRS | TOTAL MUD COST

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.25	m
1	B/S w/FLOAT	.85	
1	STB RMR 55 OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR 171 DCS OD	120.80	m
1	D.C. ID JARS OD	4.80	m
13	STB RMR 171 DCS OD	46.66	m
1	X/O	.50	
6	HWDP	55.18	
	BHA	241.07	
35	STANDS DP	986.65	m
1	SINGLES DP	9.21	m
	KELLY DOWN	12.80	m
	TOTAL	1249.73	m
	(FORCE) WT. OF STRING	67,000	daN

BIT RECORD		
BIT No.	5	
SIZE	222	
MFG.	ATJ-33	
TYPE	HUGHES	
JETS mm	3x11.9	
SER. No.	H4940	
DEPTH OUT	OBC	
DEPTH IN	916	
TOTAL METRES DRILLED	333	
TOTAL HRS. RUN	48.25	
COND. 1/8's T/B/GAGE		
FLOW RATE m^3/min		
PRESSURE DROP kPa		

MUD RECORD			
TIME	02:00	06:00	11:30
DENSITY kg/m^3	1080	1090	1080
PRESSURE GRADIENT			
VISCOSITY	47	44	49
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm^3			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
WATER	8 m^3	CHEM WT	320 l
HOT LINE	66 SKS		
CHEM C	200 l	BARITE	75 SK
CHEM DI	20 l	OMV-110	16 SKS

REMARKS MACP = 4363 kPa W/DENSITY @ 1090 kg/m^3
CHECK BRAKE LINKAGE, CROWN SAVER, REMOTE CHOKE
√ HCR + KILL LINE. √ MANSHACK VALVES, BOP'S

DRILLER Mark Grayson

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		
	BIT	.25	m
1	B/S w/FLOAT	.85	
1	STB RMR 55 OD	2.88	m
1	D.C. ID MONEL OD	9.05	m
5	STB RMR 171 DCS OD	120.80	m
1	D.C. ID JARS OD	4.80	m
13	STB RMR 171 DCS OD	46.66	m
1	X/O	.50	
6	HWDP	55.18	
	BHA	241.07	
	STANDS DP	986.65	m
	SINGLES DP	9.21	m
	KELLY DOWN	12.80	m
	TOTAL	1249.73	m
	(FORCE) WT. OF STRING	67,000	daN

BIT RECORD		
BIT No.	5	
SIZE	222	
MFG.	HUGHES	
TYPE	~~ATJ-33~~	
JETS mm	3x11.9	
SER. No.	H4940	
DEPTH OUT	OBC	
DEPTH IN	916	
TOTAL METRES DRILLED	333	
TOTAL HRS. RUN	48.25	
COND. 1/8's T/B/GAGE		
FLOW RATE m^3/min	/	/
PRESSURE DROP kPa		

MUD RECORD			
TIME	15:45	19:00	23:00
DENSITY kg/m^3	1080	1080	1090
PRESSURE GRADIENT			
VISCOSITY	52	53	47
PV mPa•s / YP Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm^3			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED

TYPE	AMT. kg	TYPE	AMT. kg
HOT LINE	16 SX		
CHEM I	100 l		
CHEM II	100 l		
CHEM WET	100 l		

REMARKS ✓ BRAKES, LINKAGE, CROWN SAVER, REMOTE CHK, HCR + KILL LINE ✓ MAN. FOLD VALVES + B.O.P.
- TIE IN DOWELL PUMPER TO PUMP #2 + CIRC. MUD TANKS TO SHEAR MUD, * HELD SFTY MTG w/ COMPANY SAFETY MAN + PUSH

DRILLER [signature]

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR'EL P. COM'D. C.
1249				FUEL @ 06:00 10603	22	—	6800	152	125	152	115	
					REDUCED PUMP SPEED							

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	04:00	4.00	5	CIRC. + COND. INVERT
04:00	04:15	.25	7	SERVICE - RIG FT. HCR
04:15	12:00	7.75	5	CIRC. + COND. INVERT

BOILER HOURS 12 1+2

METRES DRILLED

FROM	TO	DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S. PAR'EL P. COM'D. C.
1249					22	—	6700	152	125	152		
					REDUCED PUMP SPEED			152				

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:00	1.0	5	CIRC. + COND. INVERT MUD
13:00	13:15	.25	7	RIG SERV. (FT PIPE RAMS CLOSE 7 SEC.) DRILLERS WALK AROUND
13:15	14:00	.75	5	CIRC + COND. INVERT.
14:00	14:15	.25	21	~~CIRC + SHEAR MUD w/ DOWELL~~ SAFETY MTG w/ DOWELL
14:15	14:30	.25	22	B.O.P DRILL w/ CREW WELL SECURE 1 min 45 sec.
14:30	24:00	9.50	5	CIRC. + SHEAR MUD w/ DOWELL
				(HELD FIRE DRILL @ CAMP, ✓ FIRE ALARMS, DISCUSED EVACUATION PROCEDURE WITH CAMP PATRONS.) @ 20:00 hrs.

BOILER HOURS 12 hrs. 1+2

FORM 2T6m — APPROVAL PENDING — CAODC — APPROVED Revised December 1986 — COPYRIGHT 1977 JANUARY

OFFICIAL DAILY DRILLING REPORT FORM

No. 184

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G	176 M.	98 01 29

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD.	SHEHTAH DRILLING LTD.	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	Dale Bracondell

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	158	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL		5.50
3	REAMING	2.00	
4	CORING		
5	CONDITION MUD & CIRCULATE	9.75	5.75
6	TRIPS		
7	LUBRICATE RIG	.25	.50
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY		
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	✓ P.P. ON #2		.25
22			
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G.		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD		
	BIT	.25 m	BIT No.	5	TIME	02:00	06:00
1	B/S w/FLOAT	.85	SIZE	222	DENSITY kg/m³		
1	STB RMR S.S OD	2.88 m	MFG	HUGHES	PRESSURE GRADIENT		
1	D.C. MONEL OD	9.05 m	TYPE	ATJ-33	VISCOSITY		
5	STB RMR 171 DC OD	120.80 m	JETS mm	3x11.9	PV YP mPa*s Pa	/	/
1	D.C. JARS OD	4.80 m	SER. No.	H4940	GEL STR. Pa	/	/
13	STB RMR 171 DC OD	46.66 m	DEPTH OUT	OBC	WATER LOSS cm³		
1	X/O	.50	DEPTH IN	916	pH		
6	HWDP	55.18	TOTAL METRES DRILLED	333	SOLIDS %		
	BHA	241.07	TOTAL HRS RUN	48.25			
35	STANDS D.P.	986.65 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED		
1	SINGLES DP	9.21 m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE / AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa		CHEM I	1 bbl	
	TOTAL	1249.73 m			CHEM II	1 bbl	
	(FORCE) WT. OF STRING	67,000 daN			CHEM WAT	1 bbl	
					OMV-HD	15 sx	

REMARKS ✓ CROWN SAVER, MAN. SHACK VALVES, KILL LINE * HCR VALVES. ✓ BRAKE LINKAGE, ACCUMULATOR GAUGES HELD SAFETY MEETING w/ COMPANY SAFETY MAN + TOOLPUSH CHANGED SHAKER SCREENS ON SHAKER #1 (3x84) * MACP 4305 KPA w/DENSITY 1100

DRILLER [illegible]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.25 m	BIT No.	5	TIME	1200	1700	2300
1	B/S w/FLOAT	.85	SIZE	222	DENSITY kg/m³	1125	1175	1180
1	STB RMR S.S OD	2.88 m	MFG.	HUGHES	PRESSURE GRADIENT			
1	D.C. MONEL OD	9.05 m	TYPE	ATJ-33	VISCOSITY	61	63	60
5	D.C. ID 171 OD	120.80 m	JETS mm	3x11.9	PV YP mPa*s Pa	/	/	/
1	STB RMR JARS OD	4.80 m	SER. No.	H4940	GEL STR. Pa	/	/	/
13	D.C. ID 171 OD	46.66 m	DEPTH OUT	OBD	WATER LOSS cm³			
1	STB RMR X/O OD	.50 m	DEPTH IN	916	pH			
6	HWDP	55.18	TOTAL METRES DRILLED	349	SOLIDS %			
	BHA	241.07	TOTAL HRS. RUN	53.75				
36	STANDS DP	1014.73 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	9.20 m	PRESSURE DROP kPa		Barite	150 sx		
	TOTAL	1265.00 m			Chem I	80 L		
	(FORCE) WT. OF STRING	67,000 daN			Chem II	80 L		
					OMC	15 sx		

REMARKS ✓ BRAKES + LINKAGE, ✓ CROWN SAVER ✓ MAN. VALVES + GAUGES, HCR + KILL VALVES, B.OPS + REMOTE CHOKE ACCUM. GAUGES. - TEAR OUT DOWELL @ 17:15 * MACP 3843 KPA w/DENSITY = 1180

DRILLER [illegible]

E.R.C.B.	OPR.	R.M.		R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial [illegible]	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) H_2S Signs Posted (if required)	Initial [illegible]	Initial	(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT
	244.5	226	PRUD	53.3	K-55	45	590.04	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR'D RM'R CORE'C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL'S PAR'EL'P COM'D'C
1249				FUEL @ 06:00 (8311)	21	—	6900	152	12.5	152		
					REDUCED PUMP SPEED		2200	152	60			CHimo

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	05:15	5.25	5	CIRC. + SHEER MUD w/ DOWELL
05:15	05:30	.25	7	SERVICE RIG - FT. HCR (DRILLERS WALK AROUND)
05:30	06:30	1.00	5	CIRC. + SHEER MUD w/ DOWELL
06:30	08:30	2.00	3	REAM FILL (FR. 1240 - 1249 m)
08:30	12:00	3.50	5	CIRC. + COND INVERT (CONT. WORK PIPE + REAM FILL) (- CONT. SHEAR MUD w/DOWELL)

BOILER HOURS 12 hrs. 1 + 2

METRES DRILLED FROM	TO	DR'D RM'R CORE'C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL'S PAR'EL'P COM'D'C
1249	1265	16			55	3/4	5200	152	100	152		P
				NORMIX HOPPER			5100			152	80	
					REDUCED PUMP SPEED		2330	152	60			Remote Choke

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	14:15	2.25	5	CIRC + COND. INVERT (REAM FILL + SHEAR MUD w/ DOWELL)
14:15	14:30	.25	7	RIG SERV. (FT. HCR + HYDRIL) DRILLERS WALK AROUND
14:30	18:00	3.50	5	CIRC + COND. INVERT (cont. REAM FILL + SHEAR MUD w/ DOWELL
18:00	21:30	3.50	2	DRILL 222 mm HOLE (FR. 1249 - 1259 m) WOB 3-4
21:30	21:45	.25	7	SERVICE RIG - FT. PIPE RAMS (DRILLERS WALK AROUND)
21:45	22:00	.25	21	✓ PRESURE ON PUMP #2 (SHEAR MUD w/ NORMIX HOPPER)
22:00	24:00	2.00	2	DRILL 222 mm HOLE (FR. 1259 m - 1265) WOB 3-4

BOILER HOURS 12 HRS 1 + 2

OFFICIAL DAILY DRILLING REPORT FORM

No. 181

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER "NOTA CREEK"		C-17-65-10-12G		98 01 30

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SHENTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[illegible]	[illegible]

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
X14	24.7	E	15¼	4½xH	232	1	NATIONAL	8P80	316
						2	NATIONAL	8P80	316

TIME DISTRIBUTION - HOURS		
CODE No. OPERATION	FIRST TOUR	SECOND TOUR
1. RIG UP AND TEAR DOWN		
2. DRILL ACTUAL	10.5	11.25
3. REAMING		
4. CORING		
5. CONDITION MUD & CIRCULATE	.25	
6. TRIPS		
7. LUBRICATE RIG	.25	.50
8. REPAIR RIG		
9. CUT OFF DRILLING LINE		
10. DEVIATION SURVEY		.25
11. WIRE LINE LOGS		
12. RUN CASING & CEMENT		
13. WAIT ON CEMENT		
14. NIPPLE UP B.O.P.		
15. TEST B.O.P.		
16. DRILL STEM TEST		
17. PLUG BACK		
18. SQUEEZE CEMENT		
19. FISHING		
20. DIR. WORK		
21. WORK TIGHT CONN	1.0	
22.		
23.		
COMPLETION: A. PERF'R'T'N		
B. TBG TRIPS		
C. TREATING		
D. SWABBING		
E. TESTING		
F. ADDIT'N'L		
G.		
TOTALS	12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD	38	
CUMULATIVE ROTATING HRS		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.25 m	BIT No.	5	TIME	02:00	06:00	12:00
1	B/S W/FLOAT	.85	SIZE	222	DENSITY kg/m³	1185	1185	1190
1	STB RMR S.S OD	2.88 m	MFG.	HUGHES	PRESSURE GRADIENT			
1	D.C. ID MONEL OD	9.05 m	TYPE	ATJ-33	VISCOSITY	63	76	72
5	STB RMR 171 DX OD	120.80 m	JETS mm	3x11.9	PV mPa•s / YP Pa	/	/	/
1	D.C. ID JARS OD	4.80 m	SER. No	H4940	GEL STR. Pa	/	/	/
13	STB RMR 171 DX OD	46.66 m	DEPTH OUT	OBD	WATER LOSS cm³			
1	X/O	.50	DEPTH IN	916	pH			
6	HWDP	55.18	TOTAL METRES DRILLED	380	SOLIDS %			
	BHA	241.07	TOTAL HRS RUN	64.25				
37	STANDS D.P.	1042.80 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa		OMNI-100	20 SKS		
	TOTAL	1296.67 m			BARITE	60 SKS		
	(FORCE) WT. OF STRING	66,000 daN			CHEM I	80 L		
					CHEM II	80 L		

REMARKS NEW KILL LINE HOSE INSTALLED. CERT. # LIOYDS (SVG/P95/015) MACP=3785 KPA W/DENSITY 1190 kg/m³ (CERT. DATE JAN. 26/98) ✓ CROWN SAVER, MAN. SHACK GAUGES + VALVES, HCR + KILL LINE ✓ ACCUMULATOR GAUGES, REMOTE CHOKE. CHANGE SHAKER SCREENS #2 (3x84)

DRILLER [illegible]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
	BIT	.25 m	BIT No.	5	TIME	14:00	20:00	23:00
1	B/S W/FLOAT	.85	SIZE	222	DENSITY kg/m³		1185	1200
1	STB RMR SS OD	2.88 m	MFG.	HUGHES	PRESSURE GRADIENT			
1	D.C. ID MONEL OD	9.05 m	TYPE	ATJ-33	VISCOSITY		70	65
5	STB RMR 171 DX OD	120.80 m	JETS mm	3x11.9	PV mPa•s / YP Pa	/	/	/
1	D.C. ID JARS OD	4.80 m	SER. No	H4940	GEL STR. Pa	/	/	/
13	STB RMR 171 DX OD	46.66 m	DEPTH OUT	OBD	WATER LOSS cm³			
1	X/O	.50	DEPTH IN	916	pH			
6	HWDP	55.18	TOTAL METRES DRILLED	409	SOLIDS %			
	BHA	241.07	TOTAL HRS RUN	75.50				
38	STANDS DP	1071.64 m	COND. 1/8's T/B/GAGE		MUD & CHEMICALS ADDED			
	SINGLES DP	m	FLOW RATE m³/min	/	TYPE	AMT. kg	TYPE	AMT. kg
	KELLY DOWN	12.80 m	PRESSURE DROP kPa		Barite	97 SK	Chem II	90 L
	TOTAL	1325.51 m			HOT LIME	18 SK		
	(FORCE) WT. OF STRING	66000 daN			Calcium Chloride	18 SK		
					(Chem I	90 L)		

REMARKS ~~[illegible]~~ HOSE ✓ BRAKES + LINKAGE, ✓ CROWN SAVER, ✓ MAN. VALVES + GAUGES, HCR + KILL VALVES ✓ ACCUM. GAUGES + REMOTE CHOKE. D/A SAFETY INSPECTION OF MAST ALL OK

DRILLER [illegible]

E.R.C.B.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial [illegible]	Initial [illegible]
(2) Detailed Inspection Weekly (using check list)	Initial [illegible]	Initial
(3) H_2S Signs Posted (if required)	Initial	Initial

	R.M.
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)	Initial
(3) Mast Inspected Before Raising or Lowering	Initial

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	PRUD	53.3	K-55	45	590.04	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

METRES DRILLED FROM	TO	DR. D RM.R CORE C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1265	1296	31		FUEL @ 06:00 10317	55	3-4	5550	152	100	152		
				NORMIX HOPPER			5100			152	90	
					REDUCED PUMP SPEED		2500	152	60	152		

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

BOILER HOURS 12 hrs. 1+2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	05:30	5.50	2	DRILL 222 mm HOLE (FR. 1265-1281) WOB 2-3 DAN
05:30	05:45	.25	7	RIG SERVICE - FT. HCR + HYDRIL - DRILLERS WALK AROUND
05:45	07:45	2.00	2	DRILL 222 mm HOLE (FR. 1281-1287 m) WOB 3-4 DAN
07:45	08:15	.50	21	WORK TIGHT CONNECTION
08:15	11:15	3.00	2	DRILL 222 mm HOLE (FR. 1287 - 1296 m)
11:15	11:45	.50	21	WORK TIGHT CONNECTION
11:45	12:00	.25	5	CIRC. + CLEAN HOLE

METRES DRILLED FROM	TO	DR. D RM.R CORE C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D. C
1296	1325	29			70	3/4	5800	152	100	152		C
					NORMIX HOPPER		5000 kPa	152	90			
					REDUCED PUMP SPEED		1900	152	50			

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	1287	2.7°	OB 325 CORR. 357						

BOILER HOURS 12 1 + 2

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	12:15	.25	7	RIG SERV. (FT. PIPE RAMS CLOSE 7 sec.) DRILLERS WALKAROUND
12:15	12:30	.25	10	SURVEY
12:30	20:45	8.25	2	DRILL 222 mm HOLE (FR. 1296 - 1315 m)
20:45	21:00	.25	7	RIG SERVICE FT. HCR (DRILLERS WALK AROUND)
21:00	24:00	3.00	2	DRILL 222 mm HOLE (FR 1315 - 1325 m)

OFFICIAL DAILY DRILLING REPORT FORM

No. 181

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE (Yr. Mo. Day)
RANGER NOTA CREEK		C-17-65-10-12G		98 01 31

OPERATOR	CONTRACTOR	RIG No.
RANGER OIL LTD	SHENTAH DRILLING LTD	1E

SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER
[signature]	Dale Sarandall

D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD	STRING No.	PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
114	24.7	E	158	4½XH	232	1	NATIONAL	8P80	216
						2	NATIONAL	8P80	216

E.R.C.B. — OPR. — R.M.
(1) Daily Walk Around Inspection — Initial [OPR] Initial [R.M.]
(2) Detailed Inspection-Weekly (using check list) — Initial [OPR] Initial [R.M.]
(3) H_2S Signs Posted (if required) — Initial [OPR] Initial [R.M.]
(1) Rig Site Health and Safety Meeting (one meeting/crew/month) — Initial [R.M.]
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) — Initial [R.M.]
(3) Mast Inspected Before Raising or Lowering — Initial [R.M.]

LEGAL LAND DESCRIPTION

LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT
	244.5	226	FRUD	53.3	K55	45	590.04	5.03	589

WIRE LINE RECORD REEL No. 3

SIZE	No. LINES	METRES SLIPPED
28.6	8	

METRES CUT OFF | PRESENT LENGTH
MEGAJOULES SINCE LAST CUT
CUMULATIVE MEGAJOULES

TIME DISTRIBUTION - HOURS

CODE No.	OPERATION	FIRST TOUR	SECOND TOUR
1	RIG UP AND TEAR DOWN		
2	DRILL ACTUAL	10.75	6.25
3	REAMING		
4	CORING		
5	CONDITION MUD & CIRCULATE	.50	1.00
6	TRIPS		1.50
7	LUBRICATE RIG	.25	.75
8	REPAIR RIG		
9	CUT OFF DRILLING LINE		
10	DEVIATION SURVEY	.50	.75
11	WIRE LINE LOGS		
12	RUN CASING & CEMENT		
13	WAIT ON CEMENT		
14	NIPPLE UP B.O.P.		
15	TEST B.O.P.		
16	DRILL STEM TEST		
17	PLUG BACK		
18	SQUEEZE CEMENT		
19	FISHING		
20	DIR. WORK		
21	CHANGE SHKR SCREEN		.75
22	WORK TIGHT CONN.		
23			
COMPLETION	A. PERF'R'T'N		
	B. TBG TRIPS		
	C. TREATING		
	D. SWABBING		
	E. TESTING		
	F. ADDIT'N'L		
	G		
TOTALS		12	12

DAY WORK TIME SUMMARY (OFFICE USE ONLY)

HRS. W/CONTR. D.P.		
HRS. W/OPR. D.P.		
HRS. WO/DP		
HRS. STANDBY		
TOTAL DAY WORK		
No. OF DAYS FROM SPUD		
CUMULATIVE ROTATING HRS.		
TOTAL MUD COST		

FIRST TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/FLOAT	.85
1	STB RMR 5.5 OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 DC OD	120.80 m
1	D.C. ID JARS OD	4.80 m
13	STB RMR 171 DC OD	46.66 m
1	X/O	.50
6	HWDP	55.18
	BHA	241.07
39	STANDS D.P.	1097.70
1	SINGLES D.P.	9.73 m
	KELLY DOWN	7.20 m
	TOTAL	1357.70
	(FORCE) WT. OF STRING	67,000 daN

BIT RECORD	
BIT No.	5
SIZE	222
MFG.	HUGHES
TYPE	ATJ-33
JETS mm	3x11.9
SER. No.	H4940
DEPTH OUT	OBD
DEPTH IN	916
TOTAL METRES DRILLED	441
TOTAL HRS. RUN	86.25
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD			
TIME	02:00	06:00	11:30
DENSITY kg/m³	1215	1220	1220
PRESSURE GRADIENT			
VISCOSITY	70	71	83
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
CACL	40SKS	OMV+HV	10SKS
HOT LIME	20SKS		
CHEM I	50l		
CHEM II	50l		

REMARKS MAC P= 3727 KPA W/DENSITY 1200 Kg/m³
✓ MAN. SHACK VALVES + GAUGES, HCR + KILL LINE VALVES.
✓ ACCUMULATOR GAUGES + REMOTE CHOKE.
HELD SAFETY MEETING W/CREW RE: STEAMING MUD HOSE

DRILLER [signature]

SECOND TOUR

No.	DRILLING ASSEMBLY (at end of tour)	
	BIT	.25 m
1	B/S w/FLOAT	.85
1	STB RMR 5.5 OD	2.88 m
1	D.C. ID MONEL OD	9.05 m
5	STB RMR 171 DC OD	120.80 m
1	D.C. ID JARS OD	4.80 m
13	STB RMR 171 DC OD	46.66 m
1	X/O	.50
6	HWDP	55.18
	BHA	241.07
40	STANDS DP	1128.30 m
1	SINGLES DP	9.24 m
	KELLY DOWN	4.50 m
	TOTAL	1383.11 m
	(FORCE) WT. OF STRING	67,000 daN

BIT RECORD	
BIT No.	5
SIZE	222
MFG.	HUGHES
TYPE	ATJ-33
JETS mm	3x11.9
SER. No.	H4940
DEPTH OUT	1383
DEPTH IN	916
TOTAL METRES DRILLED	467
TOTAL HRS. RUN	
COND. 1/8's T/B/GAGE	
FLOW RATE m³/min	
PRESSURE DROP kPa	

MUD RECORD			
TIME	17:30		
DENSITY kg/m³	1205		
PRESSURE GRADIENT			
VISCOSITY	71		
PV YP mPa•s Pa	/	/	/
GEL STR. Pa	/	/	/
WATER LOSS cm³			
pH			
SOLIDS %			

MUD & CHEMICALS ADDED			
TYPE	AMT. kg	TYPE	AMT. kg
(Chem II)	135 L		
(Chem III)	135 L		
(Chem I)			

REMARKS ✓ BRAKES + LINKAGE, ✓ CROWN SAVER, MAN VALVES & GAUGES HCR + KILL LINE VALVES, ✓ ACCUM. GAUGES + REMOTE CHOKE
(* CHANGE SCREENS ON SHKR #1 - 3x50)

*SAFETY TOPIC - WORKING FROM HEIGHTS

DRILLER [signature]

METRES DRILLED

FROM	TO	DR. D / RM. R / CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1325	1357	32		FUEL @ 06:00 / 10 3/7	75	2-3	6200	151	100			
				NORMIX HOPPER				151	80			
					REDUCED PUMP SPEED		2200			152	55	

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1345.36	2.9°	OB 345 AZ						
			CORR 17 AZ						

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
00:00	03:00	3.00	2	DRILL 222mm HOLE Fr. 1325-1334
03:00	03:15	.25	7	SERVICE RIG - FT HCR + HYDRIL (DRILLERS WALK AROUND)
03:15	11:00	7.75	2	DRILL 222 mm HOLE Fr. 1334-1357m
11:00	11:30	.50	5	CIRC. + CLEAN HOLE
11:30	12:00	.50	10	SURVEY

BOILER HOURS 12 hrs. 1+2

METRES DRILLED

FROM	TO	DR. D / RM. R / CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1 LINER SIZE	PUMP No. 1 STROKES per min	PUMP No. 2 LINER SIZE	PUMP No. 2 STROKES per min	METHOD RUN SGL. S PAR'EL P COM'D C
1357	1383	26						152		152		
				NORMIX HOPPER			950 psi			152	85	
					REDUCED PUMP SPEED		2750	152	55			@ Remote Choke

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG FROM	TO	ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
12:00	13:15	1.25	2	DRILL 222 mm HOLE (FR 1357 - 1363m)
13:15	13:30	.25	7	RIG SERV. (FT. PIPE RAMS CLOSE 7 sec) DRILLER'S WALKAROUND
13:30	16:00	2.50	2	DRILL 222 mm HOLE (FR. 1363 - 1371m)
16:00	16:45	.75	21	CHANGE SHAKER SCREENS ON SHKR #1 + JET IN NORMIX HOPPER
16:45	19:00	2.25	2	DRILL 222 mm HOLE (FR. 1371 - 1383)
19:00	20:00	1.00	22	WORK TIGHT CONNECTION TIGHT 1376-1378
20:00	20:15	.25	2	DRILL 222mm HOLE (Fr 1383-1383)
20:15	21:15	1.00	5	CIRC + COND HOLE - CATCH BTM HOLE SAMPLE
21:15	21:45	.50	7	RIG SERVICE - FT. HYDRIL, SET BRAKES UP + INSPECT (SAFETY MEETING)
21:45	22:30	.75	10	SURVEY BTM. HOLE
22:30	24:00	1.50	6	POOH FLOW CHK PUMP PILL CONTINUE OUT OF HOLE

BOILER HOURS 12 hrs. 1+2

OFFICIAL DAILY DRILLING REPORT FORM

1831

Dec 14/97 - Jan 31/98