

No.

DAILY DRILLING REPORT

REPORT No.

LEASE		WELL No.		WELL NUMBER L-44		WATER DEPTH		DATE 90 01 20 Yr. Mo. Day	
OPERATOR PARAMOUNT RESOURCES				CONTRACTOR SIERRA DRILLING LTD.				RIG No. 2	
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>				SIGNATURE OF CONTRACTOR'S RIG MANAGER <i>[Signature]</i>					
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	146	4 1/2 x 14	127	1	TRI SERVICE	T-500	406
1 1/4	24.7	E	146	4 1/2 x 14	43				

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT		BIT No.				TIME			
1	RIG UP AND TEAR DOWN					SIZE				DENSITY kg/m ³			
2	DRILL ACTUAL			STB RMR	OD	m	MFG.			PRESSURE GRADIENT			
3	REAMING			D.C. ID	OD	m	TYPE			VISCOSITY			
4	CORING			STB RMR	OD	m	JETS mm			PV mPa.s	YP Pa	/	/
5	CONDITION MUD & CIRCULATE			D.C. ID	OD	m	SER No			GEL STR Pa		/	/
6	TRIPS			STB RMR	OD	m	DEPTH OUT			WATER LOSS cm ³			
7	LUBRICATE RIG						DEPTH IN			pH			
8	REPAIR RIG						TOTAL METRES DRILLED			SOLIDS %			
9	CUT OFF DRILLING LINE						TOTAL HRS. RUN						
10	DEVIATION SURVEY												
11	WIRE LINE LOGS			STANDS DP		m	COND. 1/8" T/B/GAGE			MUD & CHEMICALS ADDED			
12	RUN CASING & CEMENT			SINGLES DP		m	FLOW RATE m ³ /min			TYPE	AMT. kg	TYPE	AMT. kg
13	WAIT ON CEMENT			KELLY DOWN		m	PRESSURE DROP kPa						
14	NIPPLE UP B.O.P.			TOTAL		m							
15	TEST B.O.P.												
16	DRILL STEM TEST			(FORCE) WT. OF STRING		daN							
17	PLUG BACK			REMARKS									
18	SQUEEZE CEMENT			STUCK 1: 131 TONNES 0-1-0 CEMENT + 0.80% NFL 3 + 0.1% SRC 1200									
19	FISHING			STUCK 2: 775 TONNES 0-1-8 CEMENT + 0.75% T-11									
20	DIR. WORK												
21													

COMPLETION		No.		DRILLING ASSEMBLY (at end of hour)		BIT RECORD						MUD RECORD			
A. PERF'TN				BIT	m	BIT No.					TIME				
B. TBG TRIPS						SIZE					DENSITY kg/m ³				
C. TREATING				STB RMR	OD	m	MFG.				PRESSURE GRADIENT				
D. SWABBING				D.C. ID	OD	m	TYPE				VISCOSITY				
E. TESTING				STB RMR	OD	m	JETS mm				PV mPa.s YP Pa	/	/	/	
F. ADDIT'L				D.C. ID	OD	m	SER. No.				GEL STR. Pa	/	/	/	
G.				STB RMR	OD	m	DEPTH OUT				WATER LOSS cm ³				
TOTALS							DEPTH IN				pH				
DAY WORK TIME SUMMARY (OFFICE USE ONLY)							TOTAL METRES DRILLED				SOLIDS %				
HRS. W/ CONTR. D.P.							TOTAL HRS. RUN								
HRS. W/ OPR. D.P.															
HRS. WG/DP				STANDOS DP		m	COND. I/B's T/B/GAGE				MUD & CHEMICALS ADDED				
											TYPE	AMT. kg	TYPE	AMT. kg	
HRS. STANDBY				SINGLES DP		m	FLOW RATE m ³ /min	/	/	/					
				KELLY DOWN		m	PRESSURE DROP kPa								
				TOTAL		m									
				(FORCE) WT. OF STRING daN											
TOTAL DAY WORK				REMARKS											
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS															
TOTAL MUD COST															

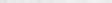
LEGEND

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.S Signs Posted (if required)	Initial _____	Initial _____	(3) Most Inspected Before Raising or Lowering: Initial _____

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			REEL No.
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB. TO CSG HD	SET AT	SIZE	No. LINES	METRES SLIPPED		
LAST CASING TUBING OR LINER	194.7		14550	23.07	1455	127	1630.45	3.7	1636.0	25.4	6		
										METRES CUT OFF	PRESENT LENGTH		
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

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

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

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
00.00	01.30	1 1/2		RIG UP CEMENTED CEMENT STAGE 1	12 HRS
01.30	03.00	1 1/2		SET PATER, OPEN DV TOOL, CIRCULATE OUT EXCESS CEMENT	
03.00	03.45	3/4		NOISE WORKING ON PUMP, READER, LEAKING VALVE ON FLOW	
03.45	06.15	2 1/2		CEMENTING STAGE 2	
06.15	12.15	6.00		WOC	
12.15	16.15	4.00		RAISE BOP, CUT OFF (WINK & WELD ON PLATE RIG OUT	
				RIG RELEASED @ 16.15 HOURS	90-01-20
					

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

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

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
16:15				MOVE B.O.P. FIVE MATTING. 3 LOADS OF THE AIR EQUIPMENT	12

MUD. PUMP. PREMIX TANK - TWO CEMENT BIN - 400 BLS
WATER TANK - MUD VAN - SURFACE CASING AND SET OF RACK
DERRICK WAS LAYING DOWN @ 15.00 HR

22:30	6:14	Moving TRUCK SHUT DOWN @ 22:30
22:30	24:00	1:42 WORK ON FLOOR ENGINE CHANGE INJECTOR TO 6

DRILLING CREW PAYROLL DATA

No.

DATE 90 01 20
 Year Month Day
 WELL NAME & No. L-44
 COMPANY PARAMOUNT
 RIG MANAGER YVON RIG No. 2

[illegible]

SECOND TOUR 12:00 TO 24:00					INJURIES	
CREW	SOC. INS. No.	NAME	HRS		YES	NO
DRILLER		G. LEBLANC	12			
DERRICKMAN		S. SEABOARD	12			
MOTORMAN		L. ...	12			

FLOORMAN	D. CARL WRIGHT 1/2
FLOORMAN	

[illegible][illegible][illegible][illegible]

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OFFICIAL DAILY DRILLING REPORT FORM



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Canada Oil and Gas
Lands Administration
JAN 31 1990
Northern

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE					
		L-44		90 01 19					
OPERATOR	CONTRACTOR		RIG No.						
PARAMOUNT RESOURCE	SIERRA DRILLING LTD.		2						
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	146	4 1/2 IN	127	1	TRI SERVICE	T-500	406
114	24.7	E	146	4 1/2 IN	43				

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	m	BIT No.		TIME			
1	RIG UP AND TEAR DOWN										
2	DRILL ACTUAL										
3	REAMING										
4	CORING										
5	CONDITION MUD & CIRCULATE	4:50	3								
6	TRIPS	6.0									
7	LUBRICATE RIG										
8	REPAIR RIG										
9	CUT OFF DRILLING LINE										
10	DEVIATION SURVEY										
11	WIRE LINE LOGS										
12	RUN CASING & CEMENT	1:50	9								
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				No.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A	PERF'T'N	B	TBG TRIPS	BIT	m	BIT No.		TIME			
C	TREATING	D	SWABBING								
E	TESTING	F	ADDIT'L								
G											
TOTALS											
DAY WORK TIME SUMMARY (OFFICE USE ONLY)											
HRS. W/CONTR. D.P.											
HRS. W/OPR. D.P.											
HRS. WQ/DP											
HRS. STANDBY											
TOTAL DAY WORK											
No. OF DAYS FROM SPUD											
CUMULATIVE ROTATING HRS											
TOTAL MUD COST											

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.
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/S Signs Posted (if required)	Initial	Initial

LEGAL LAND DESCRIPTION										WIRE LINE RECORD		REEL No.	
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG HD.	SET AT	SIZE	No LINES	METRES SLIPPED		
									25.4	6			
LAST CASING TUBING OR LINER										METRES CUT OFF		PRESENT LENGTH	
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

METRES DRILLED		DR. D RM. R CORE C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO																		
1634																			
T.D.																			

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

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
00.00	04.30	4 1/2	5						
04.30	10.30	6.0	6						
10.30	12.00	1.50	12						

METRES DRILLED		DR. D RM. R CORE C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO																		

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

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
12.00	21.00	9	12						
21.00	24.00	3	5						

METRES DRILLED		DR. D RM. R CORE C		CORE No.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		(FORCE) WT. ON BIT daN		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO																		

DRILLING CREW TAYROLL DATA

DATE	90 01 19	Year	Month	Day
WELL NAME & No.	L-44			
COMPANY	PARAMOUNT			
RIG MANAGER	YVON			
RIG No.	2			

FIRST TOUR 00:00 TO 12:00		INJURIES			
CREW	SOC. INS. No.	NAME	HRS	YES	NO
DRILLER		J. THERIAULT	12		
DERRICKMAN		C. BYMOR	12		
MOTORMAN		D. LINDSAY	12		
FLOORMAN		K. Smith	12		
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

SECOND TOUR 12:00 TO 24:00		INJURIES			
CREW	SOC. INS. No.	NAME	HRS	YES	NO
DRILLER		G. LEBLANC	12		
DERRICKMAN		S. SEABOURNE	12		
MOTORMAN		L. CHARBONNEAU	12		
FLOORMAN		D. CARTWRIGHT	12		
FLOORMAN					
LEASEMAN					
CRANE SUPT.					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

No.

DAILY DRILLING REPORT REPORT No.

LEASE		WELL NO.		WELL NUMBER		WATER DEPTH		DATE	
		1		2.44				90.01.18 Yr. Mo. Day	
OPERATOR				CONTRACTOR				RIG NO.	
PARAMOUNT RESOURCES				SIERRA DRILLING LTD.				2	
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	146	4 1/2 x 490	127	1	TRI SERVICE	T-500	406
114	24.7	E	146	4 1/2 x 490	43				

TIME DISTRIBUTION - HOURS				No.	DRILLING ASSEMBLY (at end of tour)	BIT RECORD				MUD RECORD			
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR			BIT No.				TIME			
1	RIG UP AND TEAR DOWN						SIZE			DENSITY kg/m ³			
2	DRILL ACTUAL					STB RMR OD	m	MFG.		PRESSURE GRADIENT			
3	REAMING					D.C. ID OD	m	TYPE		VISCOSITY			
4	CORING					STB RMR OD	m	JETS mm		PV mPa.s YP Pa	/	/	/
5	CONDITION MUD & CIRCULATE	1 3/4	1/2			D.C. ID OD	m	SER. No.		GEL STR. Pa	/	/	/
6	TRIPS	6 1/2	6 1/2			STB RMR OD	m	DEPTH OUT		WATER LOSS cm ³			
7	LUBRICATE RIG		1/2					DEPTH IN		pH			
8	REPAIR RIG							TOTAL METRES DRILLED		SOLIDS %			
9	CUT OFF DRILLING LINE							TOTAL HRS. RUN					
10	DEVIATION SURVEY												
11	WIRE LINE LOGS					STANDS D.P.	m	COND. 1/B's T/B/GAGE		MUD & CHEMICALS ADDED			
12	RUN CASING & CEMENT					SINGLES DP	m	FLOW RATE m ³ /min		TYPE	AMT. kg	TYPE	AMT. kg
13	WAIT ON CEMENT					KELLY DOWN	m	PRESSURE DROP kPa					
14	NIPPLE UP B.O.P.					TOTAL	m						
15	TEST B.O.P.					(FORCE) WT. OF STRING	din						
16	DRILL STEM TEST	3 1/4				REMARKS							
17	PLUG BACK												
18	SQUEEZE CEMENT												
19	FISHING												
20	DIR. WORK												
21	SAFETY MEETING	1/4											
22	STEAD STAND PIPE	1/2											
23													
						DRILLER				<i>Hille Lobner</i>			
No.		DRILLING ASSEMBLY			BIT RECORD		MUD RECORD						

COMPLETION		TWT END OF RUN		TIME					
A PERFR TN		BIT	1.50 m	BIT No.	5 RR			DENSITY	
B TBG TRIPS		2 DC	159 17.92	SIZE	222			kg/m ³	
C TREATING		STB RMR	LARS OD 4.00 m	MFG.	REED			PRESSURE GRADIENT	
D SWABBING		8 D.C ID	OD 71.68 m	TYPE	HP53			VISCOSITY	
E TESTING		STB RMR	4/0 OD .43 m	JETS mm	3 x 1/16			PV mPa.s	YP Pa
F ADDIT'L		D.C ID	BH OD 91.47 m	SER. No.	A57206			GEL STR. Pa	
G		STB RMR	OD m	DEPTH OUT	1634			WATER LOSS cm ³	
TOTALS	12 12	127 H-90 1/2	1217.76	DEPTH IN	11634			pH	
DAY WORK TIME SUMMARY OFFICE USE ONLY!		34 4 1/2 x 1/4	319.94	TOTAL METRES DRILLED	1634			SOLIDS %	
HRS. W/ CONTR. D.P.		STANDS DP	m	COND. 1/8"s T/B/GAGE				MUD & CHEMICALS ADDED	
HRS. W/O PR. D.P.		SINGLES DP	m	FLOW RATE m ³ /min				TYPE	AMT kg
HRS. WD/DP		KELLY DOWN	440 m	PRESSURE DROP kPa				TYPE	AMT kg
HRS. STANDBY		TOTAL	1634.0 m	(FORCE)					
		WT OF STRING	46,000 daN	REMARKS					
TOTAL DAY WORK									
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

LEGEND

All lengths expressed in metres to two decimal places.

flow rate = cubic metre per minute (m^3/min)
 pressure gradient = kilopascal per metre (kPa/m)
 yield point = pascal (Pa)
 plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
 gel strength = pascal (Pa)
 work completed by wire line = megajoule (MJ)
 inside diameter and outside diameter = millimetre (mm)
 pump pressure = kilopascal (kPa)

Metric expressions:

mud density = kilogram per cubic metre (kg/m³)
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weight on bit: indicator will record decanewton
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viscosity = second per litre (s/L)

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)
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)
(3) H.S. Signs Posted (if required)	Initial	Initial	(3) Mast Inspected Before Raising or Lowering

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			REEL No.
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
											25.4	6	10-36
										METRES CUT OFF	PRESENT LENGTH		
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

[illegible]

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
00:00	02:15	2 1/4	16	DEFLATE PACIFERS + WORK PIPE FREE	12
02:15	05:00	2 3/4	6	PULL D.S.T #1	
05:00	06:45	1 3/4	5	REVERSE MUD THROUGH D.S.T	
06:45	07:00	1/4	21	HOLD SAFETY MEETING W/SOS.	
07:00	07:30	1/2	22	STEAM STAND PIPE	
07:30	11:00	3 1/2	6	PULL OUT DST #1	
11:00	12:00	1	16	BREAK + SERVICE TEST TOOL + RECOVER	

METRES DRILLED		DR. D RM. P CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METE RUL COM
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
1634												
TD												
						REDUCED PUMP SPEED						

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
12.00	16.00	4.0	16	BREAK DOWN TOOL RIG OUT TESTERS	12
16.00	16.30	.50	7	RIG SERVICE V BRAKE PINS FUNCTION TEST BOP.	
16.30	17.15	.75	9	STOP 10.3 AM. DRILL LINE	
17.15	23.30	6 1/4	6	RUN IN HOLE w/ BIT - BREAK CIR @ 700 MM @ 12	
23.30	24.00	1/2	5	BREAK CIRC. & CIRC.	

DRILLING CREW PAYROLL DATA

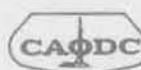
No.

DATE 90 01 13
Year Month Day
WELL NAME & No. 6-44
COMPANY PARAMOUNT
RIG MANAGER VON
RIG No. 2

FIRST TOUR 00:00 TO 12:00							INJURIES	
CREW	SOC. NS. No.			NAME	HRS.	YES	NO	
DRILLER				G. LEBLANC	12			
DERRICKMAN				S. SEABOURNE	12			
MOTORMAN				L. CHARBONNEAU	12			
FLOORMAN				D. CARTWRIGHT	12			
FLOORMAN								
FLOORMAN								
LEASEMAN								
CRANE SUPT								
MECHANIC								
WELDER								
ROUSTABOUT								
ROUSTABOUT								
TRAINEE								
DERRICKMAN (2)								
REORDER								

[illegible]

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OFFICIAL DAILY DRILLING REPORT FORM



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No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
OPERATOR	CONTRACTOR		RIG No.	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER		
D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD
114	24.7	E	146	4 1/2 X 110
114	24.7	E	146	4 1/2 X 110

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE	OPERATION	FIRST TOUR	SECOND TOUR	BIT	m	BIT No.	TIME	DENSITY	kg/m ³
1	RIG UP AND TEAR DOWN								
2	DRILL ACTUAL			STB RMR	OD	m	MFG.	PRESSURE GRADIENT	
3	REAMING			D.C. ID	OD	m	TYPE	VISCOSITY	
4	CORING			STB RMR	OD	m	JETS mm	PV mPa.s	YP Pa
5	CONDITION MUD & CIRCULATE			D.C. ID	OD	m	SEIR No.	GEL STR. Pa	
6	TRIPS			STB RMR	OD	m	DEPTH OUT	WATER LOSS cm ³	
7	LUBRICATE RIG						DEPTH IN	pH	
8	REPAIR RIG						TOTAL METRES DRILLED	SOLIDS %	
9	CUT OFF DRILLING LINE						TOTAL HRS. RUN		
10	DEVIATION SURVEY						COND. 1/8" T/B/GAGE	MUD & CHEMICALS ADDED	
11	WIRE LINE LOGS	9 1/4		STANDS DP	m			TYPE	AMT. kg
12	RUN CASING & CEMENT			SINGLES DP	DP	m	FLOW RATE m ³ /min		
13	WAIT ON CEMENT			KELLY DOWN	m		PRESSURE DROP kPa		
14	NIPPLE UP B.O.P.			TOTAL	m				
15	TEST B.O.P.			(FORCE) WT. OF STRING	daN				
16	DRILL STEM TEST	2 3/4		REMARKS					
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21	D. STRAP								
22	SAFETY MEETING								
23									

COMPLETION				No. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A	PERF. RTN	B	TBG TRIPS	BIT	m	BIT No.	TIME	DENSITY	kg/m ³
C	TREATING	D	SWABBING	STB RMR	OD	m	MFG.	PRESSURE GRADIENT	
E	TESTING	F	ADDIT'N'L	D.C. ID	OD	m	TYPE	VISCOSITY	
G				STB RMR	OD	m	JETS mm	PV mPa.s	YP Pa
				D.C. ID	OD	m	SEIR No.	GEL STR. Pa	
				STB RMR	OD	m	DEPTH OUT	WATER LOSS cm ³	
							DEPTH IN	pH	
							TOTAL METRES DRILLED	SOLIDS %	
							TOTAL HRS. RUN		
				STANDS DP	m		COND. 1/8" T/B/GAGE	MUD & CHEMICALS ADDED	
				SINGLES DP	DP	m	FLOW RATE m ³ /min	TYPE	AMT. kg
				KELLY DOWN	m		PRESSURE DROP kPa		
				TOTAL	m				
				(FORCE) WT. OF STRING	daN				
				REMARKS					
				SAFETY MEETING CALLED BY MIKE, DISCUSSED THE PROPER PROCEDURES OF H ₂ S SAFETY, DISCUSSED HOW BUDDY SYSTEM WORKS & WHERE TO MEET SHOULD ALARM SOUND. 11 PEOPLE WERE PRESENT.					
				DRILLER					

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

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. (1) Daily Walk Around Inspection (2) Detailed Inspection-Weekly (using check list) (3) H.S. Signs Posted (if required)

OPR. Initial Initial Initial

R.M. Initial 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

WIRE LINE RECORD

REEL No.

SIZE

No. LINES

METRES SLIPPED

OUTSIDE DIAMETER

INSIDE DIAMETER

MAKE

kg/m

GRADE

No. JOINTS

TOTAL LENGTH

RKS. TO CSG. HD

SET AT

25.4

6

METRES CUT OFF

PRESENT LENGTH

MEGAJOULES SINCE LAST CUT

CUMULATIVE MEGAJOULES

DRILLING CREW PAYROLL DATA

No.

DATE

Year

Month

Day

WELL NAME & No.

COMPANY

RIG MANAGER

RIG No.

FIRST TOUR 00:00 TO 12:00

INJURIES

CREW

SOC. INS. No.

NAME

HRS

YES

NO

DRILLER

G. LERLANC

12

DERRICKMAN

S. SEABOURNE

12

MOTORMAN

L. CHARBONNEAU

12

FLOORMAN

D. CARTWRIGHT

12

FLOORMAN

FLOORMAN

LEASEMAN

CRANE SUPT.

MECHANIC

WELDER

ROUSTABOUT

ROUSTABOUT

TRAINEE

DERRICKMAN (2)

No. OF DAYS

SINCE LAST LOST TIME ACCIDENT

SECOND TOUR 12:00 TO 24:00

INJURIES

CREW

SOC. INS. No.

NAME

HRS

YES

NO

DRILLER

CORY VICK

12

DERRICKMAN

DEAN KOBAY

12

MOTORMAN

JIM SHULSON

12

FLOORMAN

BRENT GREENSTEIN

12

FLOORMAN

FLOORMAN

LEASEMAN

CRANE SUPT.

MECHANIC

WELDER

ROUSTABOUT

ROUSTABOUT

TRAINEE

DERRICKMAN (2)

No. OF DAYS

SINCE LAST LOST TIME ACCIDENT

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 PAREL. P COM'D. C

REDUCED PUMP SPEED

DEPTH

DEV

DIRECTION

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

12:00 12:15 1/4 16 MAKE UP TOOLS

12:15 14:35 2 16 RUN IN w/ DST #1

14:15 14:45 1/2 21 DOUBLE STRAP PIPE

14:45 17:30 2 1/4 6 RUN IN

17:30 18:30 1 8 THAW FROST PLYG IN KELLY HOSE

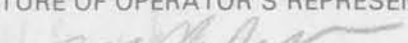
18:30 18:45 1/4 16 OPEN DST #1

18:45 19:00 1/4 22 DST #1 SAFETY MEETING

19:00 23:00 4 16 DST #1

23:00 24:00 1 6 Pull DST #1

SECOND TOUR

DAILY DRILLING REPORT					REPORT No.				
LEASE			WELL No.		WELL NUMBER				
					L-44				
					90 01 16 Yr. Mo. Day				
OPERATOR				CONTRACTOR		RIG No.			
PARAMOUNT RESOURCES				 SIERRA DRILLING LTD.		2			
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	146	1 1/2 H90	127	1	TRI SERVICE	T-500	406
114	24.7	E	146	1 1/2 X/H	43				

COMPLETION		No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
A. PERF'T'N			BIT	m	BIT No.			TIME		
B. TBG TRIPS					SIZE			DENSITY kg/m ³		
C. TREATING			STB RMR	OD	MFG.			PRESSURE GRADIENT		
D. SWABBING			D.C. ID	OD	TYPE			VISCOSITY		
E. TESTING			STB RMR	OD	JETS mm			PV: mPa's Pa	/	/
F. ADDIT'N'L			D.C. ID	OD	SER. No.			GEL STR. Pa	/	/
G.			STB RMR	OD	DEPTH OUT			WATER LOSS cm ³		
TOTALS					DEPTH IN			pH		
DAY WORK TIME SUMMARY (OFFICE USE ONLY)					TOTAL METRES DRILLED			SOLIDS %		
HRS. W/CONTR. D.P.					TOTAL HRS. RUN			MUD & CHEMICALS ADDED		
HRS. W/O PR. D.P.			STANDS DP	m	COND. 1/8"s T/B/GAGE			TYPE	AMT. kg	TYPE AMT. kg
HRS. WO'DP			SINGLES DP	m	FLOW RATE m ³ /min	/	/			
HRS. STANDBY			KELLY DOWN	m	PRESSURE DROP kPa					
			TOTAL	m						
			(FORCE) WT. OF STRING	daN						
TOTAL DAY WORK		REMARKS								
		SAFETY MEETING CALLED BY MIKE, DISCUSS THE PROPER PROCEDURES OF H ² S SAFETY & DISCUSSED HOW THE BIDDY SYSTEM WORKS + WHERE TO MEET IF ALARM SHOULD SOUND. 11 PEOPLE WERE PRESENT								
No. OF DAYS FROM SPUD										
CUMULATIVE ROTATING HRS.										
TOTAL MUD COST										
		DRILLER								



flow rate = cubic metre per minute (m^3/min)
 pressure gradient = kilopascal per metre (kPa/m)
 yield point = pascal (Pa)
 plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
 gel strength = pascal (Pa)
 work completed by wire line = megajoule (MJ)
 inside diameter and outside diameter = millimetre (mm)
 pump pressure = kilopascal (kPa)

R.M.

- (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

Initial _____
Initial _____
Initial _____

WIRE LINE RECORD

AST USING BIBING LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG WD	SET AT	SIZE	No. LINES	METRES SLIPPED
										METRES CUT OFF	PRESENT LENGTH	
										25.4	6	
										MEGAJOULES SINCE LAST CUT		
										CUMULATIVE MEGAJOULES		

No.

DATE 90 01 16

WELL NAME & No. L-44

COMPANY PARAMOUNT

RIG MANAGER Yoon.

RIG No. 2

METRES DRILLED		DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
				PIPE STRAP - 1644.33								
				PIPE TALLY - 1642.54								
				DIFF - 1.79		REDUCED PUMP SPEED						

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

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
					12

12:00	12:00	12	11	RIG UP - LOG (ON BOTTOM AT 0115)
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[illegible][illegible]

TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
					12

DATE	TO	TIME	CODE NO	DETAILS OF WORK
00	24:00	12	11	400

LOGS RUN	GR-SP- PINDER INDUCTION - 5FL	389M-1635.8M
	GR-Cal- CNL- LDT	389M-1635.8M
	GR-DRAMATIC- STC WAVEFORMS	389M-1635.4M
	GR-Cal- MICROLOG	389M-1627.7M
	CYBER LITHOLOGY	1348M-1635.8M
	SNT VELOCITY MONITOR LOG	

FIRST TOUR 00:00 TO 12:00		INJURIES
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[illegible]

No. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT _____

SECOND TOUR 12:00 TO 24:00	INJURIES
----------------------------	----------

[illegible]

No. OF DAYS	SINCE LAST LOST TIME ACCIDENT
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APPROVAL
PENDING



APPROVED
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1977 JANUARY

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
OPERATOR	CONTRACTOR	RIG No.		
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER		
D.P. SIZE	kg/m	GRADE	TOOL JOINT	TYPE THREAD
114	24.7	E	146	4 1/2 IN. 114
114	24.7	E	146	4 1/2 IN. 114

TIME DISTRIBUTION - HOURS		No. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE	OPERATION	FIRST TOUR	SECOND TOUR	BIT	SIZE	TIME	DENSITY
1	RIG UP AND TEAR DOWN			1	8.98	00:00 2:00	11.15 1120 1125
2	DRILL ACTUAL	6 1/4		1	8.98		
3	REAMING			1	8.98		
4	CORING			1	8.98		
5	CONDITION MUD & CIRCULATE	4 1/4		1	8.98		
6	TRIPS	1		1	8.98		
7	LUBRICATE RIG			1	8.98		
8	REPAIR RIG			1	8.98		
9	CUT OFF DRILLING LINE			1	8.98		
10	DEVIATION SURVEY			1	8.98		
11	WIRE LINE LOGS			1	8.98		
12	RUN CASING & CEMENT			1	8.98		
13	WAIT ON CEMENT			1	8.98		
14	NIPPLE UP B.O.P.			1	8.98		
15	TEST B.O.P.			1	8.98		
16	DRILL STEM TEST			1	8.98		
17	PLUG BACK			1	8.98		
18	SQUEEZE CEMENT			1	8.98		
19	FISHING			1	8.98		
20	DIR. WORK			1	8.98		
21				1	8.98		
22				1	8.98		
23				1	8.98		

COMPLETION		No. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A	PERF'TN	BIT	SIZE	TIME	DENSITY		
B	TBG TRIPS	1	8.98	00:00 2:00	11.15 1120 1125		
C	TREATING	1	8.98				
D	SWABBING	1	8.98				
E	TESTING	1	8.98				
F	ADDIT'L	1	8.98				
G		1	8.98				
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							
No. OF DAYS FROM SPUD							
CUMULATIVE ROTATING HRS.							
TOTAL MUD COST							

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

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)

LEGAL LAND DESCRIPTION

WIRE LINE RECORD

DRILLING CREW PAYROLL DATA

DATE 90 01 15

WELL NAME & No. L-44

COMPANY PARAMOUNT

RIG MANAGER Yvon

RIG No. 2

METRES DRILLED

FORMATION

DEVIATION RECORD

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS 12

DRILLER A. M. R. R. R.

SECOND TOUR

FORMATION

DEVIATION RECORD

TIME LOG

DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS

BOILER HOURS 12

DRILLER Cory J. J.

No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
OPERATOR	CONTRACTOR	RIG No.		
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER			
D.P. SIZE	kg/m	GRADE	TOOL JT O.D.	TYPE THREAD
114	24.7	E	146	HX H90 127
114	24.7	E	146	HX H90 43

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE	OPERATION	FIRST TOUR	SECOND TOUR	BIT	SIZE	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY
1	RIG UP AND TEAR DOWN			STB RMDC	8.98	1200	1120		
2	DRILL ACTUAL	1 1/2		D.C. ID SHOCK	4.12				
3	REAMING			STB RMDC	9.32				
4	CORING			D.C. ID JARS	4.00				
5	CONDITION MUD & CIRCULATE	1/4		STB RMDC	170.33				
6	TRIPS	2 3/4		STB RMDC	198.26				
7	LUBRICATE RIG	1/4							
8	REPAIR RIG	3/4							
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	FUNCTION ROP	1/4							
22									
23									

COMPLETION				No. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A	PERF'RT'N	B	TBG TRIPS	BIT	SIZE	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY
1				STB RMDC	8.98	1400	1115		
2				D.C. ID SHOCK	4.12				
3				STB RMDC	9.32				
4				D.C. ID JARS	4.00				
5				STB RMDC	170.33				
6				STB RMDC	198.26				
7									
8									
9									
10									
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22									
23									

FORM 2T6m	APPROVAL PENDING	APPROVED	Revised December 1986
OFFICIAL DAILY DRILLING REPORT FORM			

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.
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.	DPR	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using check list)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial

LEGAL LAND DESCRIPTION										WIRE LINE RECORD									
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG HD	SET AT	SIZE	No. LINES	METRES SLIPPED	METRES CUT OFF	PRESENT LENGTH	MEGAJOULES SINCE LAST CUT	CUMULATIVE MEGAJOULES				
									25.4	6									

DRILLING CREW PAYROLL DATA				No.
DATE	Year	Month	Day	
WELL NAME & No.	L-44			
COMPANY	PARAMOUNT			
RIG MANAGER	Yvon			

METRES DRILLED										FORMATION									
FROM	TO	DR. D. RM-R	CORE No.	FORMATION	ROTARY RPM	IFORCEI WT. ON BIT daN	PUMP PRESS	PUMP No.	PUMP No.	PUMP No.	METHOD RUN	ROTARY RPM	IFORCEI WT. ON BIT daN	PUMP PRESS	PUMP No.	PUMP No.	PUMP No.	METHOD RUN	
1568	1573	5			62	4000	1200	40	62										

METRES DRILLED										FORMATION									
FROM	TO	DR. D. RM-R	CORE No.	FORMATION	ROTARY RPM	IFORCEI WT. ON BIT daN	PUMP PRESS	PUMP No.	PUMP No.	PUMP No.	METHOD RUN	ROTARY RPM	IFORCEI WT. ON BIT daN	PUMP PRESS	PUMP No.	PUMP No.	PUMP No.	METHOD RUN	
1573	1613				60	4000	1200	40	62										

FIRST TOUR 00:00 TO 12:00										INJURIES		
CREW	SCC. INS. No.	NAME	HRS	YES	NO							
DRILLER		L. BLANC	12									
DERRICKMAN		S. SCABOURENE	12									
MOTORMAN		L. CHARBONNEAU	12									
FLOORMAN		D. CARTWRIGHT	12									
FLOORMAN												
FLOORMAN												
LEASEMAN												
CRANE SUPT												
MECHANIC												
WELDER												
ROUSTABOUT												
ROUSTABOUT												
TRAINEE												
DERRICKMAN (2)												

SECOND TOUR 12:00 TO 24:00										INJURIES		
CREW	SCC. INS. No.	NAME	HRS	YES	NO							
DRILLER		CORV. VICK	12									
DERRICKMAN		DEAN KOSLY	12									
MOTORMAN		JIM SHALSON	12									
FLOORMAN		BRENT GREENSTEIN	12									
FLOORMAN												
FLOORMAN												
LEASEMAN												
CRANE SUPT												
MECHANIC												
WELDER												
ROUSTABOUT												
ROUSTABOUT												
TRAINEE												
DERRICKMAN (2)												

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE						
		L-44		90 01 13						
OPERATOR	CONTRACTOR		RIG No.							
PARAMOUNT RESOURCES	STERRA DRILLING LTD.		2							
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	146	4 1/2 H90	127	1	TRI-SERVICE	T-500	406
114		24.7	E	146	4 1/2 XH	43				

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	SIZE	BIT No.	SIZE	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY
1	RIG UP AND TEAR DOWN			548	1.00	#3	222	00:00	2.00	4.00	1100
2	DRILL ACTUAL	11	10:4	1	STB RMR	DC	OD	8.98	m	MFG	REED
3	REAMING			D.C.	146	OD	4.12	m	TYPE	HPS2A	44
4	CORING			1	STB RMR	DC	OD	9.32	m	JETS	3/11.1
5	CONDITION MUD & CIRCULATE			D.C.	146	OD	4.00	m	SER. No.	H57066	41
6	TRIPS	1/4	1/4	19	STB RMR	DC	OD	170.33	m	DEPTH OUT	IN
7	LUBRICATE RIG	1/4	1/4					198.26	m	DEPTH IN	1263
8	REPAIR RIG			127	H90	DR	127.76	m	TOTAL METRES DRILLED	285	1100
9	CUT OFF DRILLING LINE							4.00	m	TOTAL HRS. RUN	64 1/2
10	DEVIATION SURVEY	1/4									
11	WIRE LINE LOGS	1/4									
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	D.R. WORK										
21	WIRELINE PUMP	1/4									
22											
23											

COMPLETION				No.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A	PERF. T.N.	B	T.B.G. TRIPS	BIT	SIZE	BIT No.	SIZE	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY
1				548	1.00	#3	222	14:00	16:00	1100	115
2				1	STB RMR	DC	OD	8.98	m	MFG	REED
3				D.C.	146	OD	4.12	m	TYPE	HPS2A	40
4				1	STB RMR	DC	OD	9.32	m	JETS	3/11.1
5				D.C.	146	OD	4.00	m	SER. No.	H57066	41
6				19	STB RMR	DC	OD	170.33	m	DEPTH OUT	1568
7								198.26	m	DEPTH IN	1263
8				127	H90	DR	127.76	m	TOTAL METRES DRILLED	395	1100
9								4.00	m	TOTAL HRS. RUN	74 3/4
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											

TOTAL DAY WORK		Held Safety Meeting with crew concerning proper use and handling of caustic soda.	
No. of days from start		20th H=115, V=40, W=6, PH=11	
CUMULATIVE ROTATING HRS		27th H=120, V=42, W=6, PH=11	
TOTAL MUD COST		DRILLER	

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

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.S. Signs Posted (if required)	Initial	Initial

LEGAL LAND DESCRIPTION										WIRE LINE RECORD		REEL No.	
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG HD	SET AT	SIZE	No. LINES	METRES SLIPPED		
LAST CASING TUBING OR LINER									25.4	6			
									METRES CUT OFF	PRESENT LENGTH			
									MEGAJOULES SINCE LAST CUT				
									CUMULATIVE MEGAJOULES				

METRES DRILLED		FORMATION		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE C	CORE No.	(SHOW CORE RECOVERY)				LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PAREL. P. COM. D. C.	
1529	1548	39			70	1400	2500	140	62				

DEVIATION RECORD		DEPTH		DEV		DIRECTION		DEPTH		DEV		DIRECTION	
		1529	2°										

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
00:00	00:15	25	7			RIG SERVICE		12	
00:15	05:15	5	2			DRILL			
05:15	05:45	50	10			SURVEY			
05:45	07:30	1 3/4	2			DRILL			
07:30	07:45	1/4	21			BLEED CLEAN PUMP SCREEN - BLEED OFF			
07:45	12:00	4 1/4	2			DRILL			

METRES DRILLED		FORMATION		ROTARY RPM		PUMP PRESS		PUMP No. 1		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE C	CORE No.	(SHOW CORE RECOVERY)				LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PAREL. P. COM. D. C.	
1548	1568				50	1400	2500	140	62				

DEVIATION RECORD		DEPTH		DEV		DIRECTION		DEPTH		DEV		DIRECTION	

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
13:00	14:15	2 1/4	2			DRILL		12	
14:15	14:30	1/4	7			RIG SERVICE: FUNCTION H.C.R. W/REMOTE			
14:30	22:30	8	2			DRILL			
22:30	24:00	1 1/2	6			TRIP FOR BIT			

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
13:00	14:15	2 1/4	2			DRILL		12	
14:15	14:30	1/4	7			RIG SERVICE: FUNCTION H.C.R. W/REMOTE			
14:30	22:30	8	2			DRILL			
22:30	24:00	1 1/2	6			TRIP FOR BIT			

DRILLING CREWPAYROLL DATA

DATE		90 01 13		WELL NAME & No.		L-44		COMPANY		PARAMOUNT		RIG MANAGER		Yoon		RIG No.		2	
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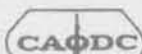
FIRST TOUR 00:00 TO 12:00										INJURIES		
CREW	SOC. INS. No.	NAME		HRS	YES	NO						
DRILLER		A. LEBLANC		12								
DERRICKMAN		S. SEABOURGE		12								
MOTORMAN		L. CHARBONNEAU		12								
FLOORMAN		D. CARTWRIGHT		12								
FLOORMAN												
FLOORMAN												
LEASEMAN												
CRANE SUPT												
MECHANIC												
WELDER												
ROUSTABOUT												
ROUSTABOUT												
TRAINEE												
DERRICKMAN (2)												

SECOND TOUR 12:00 TO 24:00										INJURIES		
CREW	SOC. INS. No.	NAME		HRS	YES	NO						
DRILLER		COAY JICK		12								
DERRICKMAN		DEAN KOBT		12								
MOTORMAN		JIM SHULTSON		12								
FLOORMAN		BRENT GREENSTEIN		12								
FLOORMAN												
FLOORMAN												
LEASEMAN												
CRANE SUPT												
MECHANIC												
WELDER												
ROUSTABOUT												
ROUSTABOUT												
TRAINEE												
DERRICKMAN (2)												

FORM 276m



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OFFICIAL DAILY DRILLING REPORT FORM



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No.

DAILY DRILLING REPORT REPORT No.

LEASE				WELL No.		WELL NUMBER L-44		WATER DEPTH		DATE 90. 11. 12 Yr. Mo. Day	
OPERATOR PARAMOUNT RESOURCES						CONTRACTOR  SIERRA DRILLING LTD.				RIG No. 2	
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	1416	4 1/2 X 90	127	1	TRI-SERVICE		T-500	406
114		24.7	E	1416	4 1/2 X 90	43					

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR			BIT		BIT No.				TIME			
1.	RIG UP AND TEAR DOWN					T SUB L.O.D.	m	#3				200	500	8.30	
2.	DRILL ACTUAL	10 1/4	10 1/2			X/O 49		SIZE	222			DENSITY kg/m ³	1110	1125	1110
3.	REAMING					STB RMDC OD	8.98 m	MFG	REED			PRESSURE GRADIENT			
4.	CORING					D.C. ID SHOCKER	4.12 m	TYPE	HPS2A			VISCOSITY	45	41	41
5.	CONDITION MUD & CIRCULATE					STB RMR DC OD	9.32 m	JETS mm	3 11/16			PV mPa.s	/	/	/
6.	TRIPS		50			D.C. ID JARS	4.00 m	SER. No.	H37066			GEL STR. Pa	/	/	/
7.	LUBRICATE RIG	3/4				STB RMR D.C. OD	170.33 m	DEPTH OUT	IN			WATER LOSS cm ³	8	7.5	5
8.	REPAIR RIG		1				198.26	DEPTH IN	1263			pH	10	10	9.5
9.	CUT OFF DRILLING LINE					127 H90 OF	127.76	TOTAL METRES DRILLED	206			SOLIDS %		OF	UF
10.	DEVIATION SURVEY	1/2				X/O .43		TOTAL HRS. RUN	4.3			DESANDER	1110	1740	
11.	WIRE LINE LOGS					STANDS DP	m	COND. 1/8's T/B/GAGE				MUD & CHEMICALS ADDED			
12.	RUN CASING & CEMENT					5 V.H. DP SINGLES DP	48.15 m	FLOW RATE m ³ /min	/	/	/	TYPE	AMT. kg	TYPE	AMT. kg
13.	WAIT ON CEMENT					Kelly Down	4.40 m	PRESSURE DROP kPa				PERTEX	20SX		
14.	NIPPLE UP B.O.P.					8 TOTAL	1469.00 m					AUSTIC	43X		
15.	TEST B.O.P.					(FORCE) WT. OF STRING	53,000 daN					SODAASH	10SX		
16.	DRILL STEM TEST					REMARKS	10.30		11.45						
17.	PLUG BACK					WEIGHT	1110		1110						
18.	SQUEEZE CEMENT					VIS	41		44						
19.	FISHING					PH	10		10.5						
20.	DIR. WORK					LOSS	4.4		4.4						
21.	CLEAN APPROVAL	Y2													
22.															

DRILLER: [Signature]

COMPLETION		No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD			
A. PERF'T'N B. TBG TRIPS C. TREATING D. SWABBING E. TESTING F. ADDIT'N'L G.		BIT	1.00 m	BIT No.	#3	TIME	13.00	15.00	16.00
			.49	SIZE	222	DENSITY kg/m ³	1110	1110	1110
		STB RMP	8.98 m	MFG.	REED	PRESSURE GRADIENT			
		D.C.	4.12 m	TYPE	HP52A	VISCOSITY	55	50	53
		STB RMP	9.32 m	JETS mm	3X111	PV mPa.s	/	/	/
		D.C.	4.00 m	SER. No.	H57066	GEL STR Pa	/	/	/
TOTALS	12 12	STB RMP	170.33 m	DEPTH OUT	IN	WATER LOSS cm ³	5	6.5	6.5
DAY WORK TIME SUMMARY (OFFICE USE ONLY)			198.26	DEPTH IN	1263	pH	11	11	11
HRS. W/CONTR. D.P.		127 H 40 DR	1217.76	TOTAL METRES DRILLED	246	SOLIDS %		OF	4F
HRS. W/OPR. D.P.		%	.43	TOTAL HRS. RUN	53 1/2		DESAND PR.	1110	1240
HRS. WO/DP		10 STANDS DR/H	92.55 m	COND. 1/8" s T/B/GAGE		MUD & CHEMICALS ADDED			
HRS. STANDBY		SINGLES	DP	m		TYPE	AMT. kg	TYPE	AMT. kg
						FLOW RATE m ³ /min	7		
		KELLY DOWN		m		PRESSURE DROP kPa	9		
		TOTAL	1509 m				19		
		(FORCE) WT. OF STRING	53000 daN				CAUTION	12	
TOTAL DAY WORK		REMARKS							
		DUMPED SHAKER TANK @ 13:15, 18:15							
		18:00 W= 1100, Vis= 55, PH= 11, WL= 6.5							
		20:00 - W= 1100, Vis= 44, PH= 11, WL= 7							
		22:00 - W= 1105, Vis= 43, PH= 11, WL= 6.5							
No. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS									
TOTAL MUD COST									

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 (m^3/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
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.S.	OPR	R.M.	R.M.
(1) Daily Walk Around Inspection	Initial <u> </u>	Initial <u> </u>	(1) Rig Site Health and Safety Meeting (one meeting/crew/month) Initial <u> </u>
(2) Detailed Inspection-Weekly (using check list)	Initial <u> </u>	Initial <u> </u>	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) Initial <u> </u>
(3) H/S Signs Posted (if required)	Initial <u> </u>	Initial <u> </u>	(3) Mast Inspected Before Raising or Lowering Initial <u> </u>

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			REEL No.
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
											25.4	6	
										METRES CUT OFF		PRESENT LENGTH	
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

METRES DRILLED		DR. D. RM. R. CORE. C.	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No.		METHOD RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
1410	1469	59			70	14000	3500	140	62			
					REDUCED PUMP SPEED							

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1445	2°							

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
00:00	00:45	.75	2	DRILL	12
00:45	01:15	.50	7	RIG SERVICE	
01:15	06:15	5	2	DRILL	
06:15	06:45	.50	10	SURVEY @ 1445m	
06:45	08:00	1 1/4	2	DRILL	
08:00	08:25	1/2	21	CLEAN MUD PUMP	
08:30	08:45	1/4	2	DRILL	
08:45	09:00	1/4	7	RIG SERVICE + FUNCTION PIPE Rm w/ REMOVAL	
09:00	12:00	3	2	DRILL	

METRES DRILLED		OR D RM-B CORE C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	[FORCE] WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No.		METHOD RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
1469	1509				70	1400	520	140	62			SEL S PARCEL P COM D.C
					REDUCED							

[illegible]

TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
12.00	20:15	8.25	2	DRILL	12
20:15	20:45	.50	6	PULL 5 STANDS	
20:45	21:45	1	8	REPAIR STUFFING BOX ON SUMP SIDE OF PUMP	
21:45	24:00	2.25	2	DRILL	

DRILLING CREW PAYROLL DATA

No.

DATE 90 01 12
Year Month Day

WELL NAME & No. L-44

COMPANY PARAMOUNT

RIG MANAGER Yvon

RIG No. 2

[illegible][illegible]

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Revised December 1986

OFFICIAL DAILY DRILLING REPORT FORM



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No.

DAILY DRILLING REPORT REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
	1	L-44		96 01 13
OPERATOR	CONTRACTOR		RIG No.	
PARAMOUNT RESOURCES	STERRA DRILLING LTD.		2	
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	146	4 1/2 X 90	127	1	TRI SERVICE	T-500	406
114	24.7	E	146	4 1/2 X 8	43				

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT No.	SIZE	TIME	DENSITY	TIME	TIME	TIME	TIME
1	RIG UP AND TEAR DOWN			508	1.00 m	03:00	06:00	10:00			
2	DRILL ACTUAL	10:25	11:25	10	.49	11:30	11:30	11:30			
3	REAMING			STB RMR	DC OD	8.98 m	MFG.	REED			
4	CORING			D.C. ID	SHCK OD	4.12 m	TYPE	HP52A			
5	CONDITION MUD & CIRCULATE			STB RMR	DC OD	9.32 m	JETS mm	3x11.1			
6	TRIPS	25		D.C. ID	HP5 OD	4.00 m	SER. No.	H570610			
7	LUBRICATE RIG		25	STB RMR	DC OD	170.83 m	DEPTH OUT	RUN			
8	REPAIR RIG	75				198.26	DEPTH IN	1263			
9	CUT OFF DRILLING LINE						TOTAL METRES DRILLED	100			
10	DEVIATION SURVEY	75	50				TOTAL HRS. RUN	21:50			
11	WIRE LINE LOGS			STANDS D.P.	1164.76 m	COND. 1/8" T/B/GAGE					
12	RUN CASING & CEMENT			SINGLES DP		FLOW RATE m ³ /min					
13	WAIT ON CEMENT			KELLY DOWN		PRESSURE DROP kPa					
14	NIPPLE UP B.O.P.			TOTAL	1367.78 m						
15	TEST B.O.P.										
16	DRILL STEM TEST										
17	PLUG BACK										
18	SQUEEZE CEMENT										
19	FISHING										
20	DIR. WORK										
21											
22											
23											

COMPLETION				No.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A	PERF'TN	B	TBG. TRIPS	BIT No.	SIZE	TIME	DENSITY	TIME	TIME	TIME	TIME
1				508	1.00 m	25:00	1830	21:00			
2				10	.49	11:30	11:30	11:30			
3				STB RMR	DC OD	8.98 m	MFG.	REED			
4				D.C. ID	SHCK OD	4.12 m	TYPE	HP52A			
5				STB RMR	DC OD	9.32 m	JETS mm	3x11.1			
6				D.C. ID	HP5 OD	4.00 m	SER. No.	H570610			
7				STB RMR	DC OD	170.83 m	DEPTH OUT	RUN			
8						198.26	DEPTH IN	1263			
9							TOTAL METRES DRILLED	147			
10							TOTAL HRS. RUN	32:75			
11				STANDS D.P.	1217.76 m	COND. 1/8" T/B/GAGE					
12				SINGLES DP		FLOW RATE m ³ /min					
13				KELLY DOWN		PRESSURE DROP kPa					
14				TOTAL	1416.02 m						
15											
16											
17											
18											
19											
20											
21											
22											
23											

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1977 JANUARY

LEGEND

Metric expressions:

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)

LEGAL LAND DESCRIPTION

WIRE LINE RECORD

DRILLING CREW/PAYROLL DATA

DATE 90 01 13

WELL NAME & No. L-44

COMPANY PARAMOUNT

RIG MANAGER YOUNG

RIG No. 2

FIRST TOUR 00:00 TO 12:00

CREW

DRILLER

DERRICKMAN

MOTORMAN

FLOORMAN

FLOORMAN

FLOORMAN

LEASEMAN

CRANE SUPT

MECHANIC

WELDER

ROUSTABOUT

ROUSTABOUT

TRAINEE

DERRICKMAN (2)

SECOND TOUR 12:00 TO 24:00

CREW

DRILLER

DERRICKMAN

MOTORMAN

FLOORMAN

FLOORMAN

FLOORMAN

LEASEMAN

CRANE SUPT

MECHANIC

WELDER

ROUSTABOUT

ROUSTABOUT

TRAINEE

DERRICKMAN (2)

No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
	1	L-44		90.01.10
OPERATOR	CONTRACTOR		RIG No.	
PARAMOUNT RESOURCES	STERRA DRILLING LTD.		2	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER		
M. D. D. D.		M. D. D. D.		
D.P. SIZE	kg/m	GRADE	TOOL JOINT	STRING No.
114	24.7	E	146	41/2 H 90 127
114	24.7	E	146	41/2 XH 43
PUMP No.	PUMP MANUFACTURER	TYPE	STROKE LENGTH	
1	TRI SERVICE	T-500	406	

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT No.	SIZE	TIME	DENSITY	TIME	DENSITY
1	RIG UP AND TEAR DOWN			1	4.9		222		
2	DRILL ACTUAL	1.50	10.75	1	8.98		REED		
3	REAMING	3.75		1	4.12		HP529		
4	CORING			1	9.32		JETS		
5	CONDITION MUD & CIRCULATE	1.25		1	4.00		HP529		
6	TRIPS	6.0		19	170.33		DEPTH OUT		
7	LUBRICATE RIG	.25		19	178.26		DEPTH IN		
8	REPAIR RIG								
9	CUT OFF DRILLING LINE								
10	DEVIATION SURVEY	.25	.40						
11	WIRE LINE LOGS								
12	RUNCASING & 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									

REMARKS	
JETS PLUGGED W/ HARD PLASTIC	
NOW RECOGNIZABLE	
DRILLER	
C. J. J.	

COMPLETION				No. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A	PERF'TN	B	TBG TRIPS	BIT No.	SIZE	TIME	DENSITY	TIME	DENSITY
1		1		1	4.9		222		
2		1		1	8.98		REED		
3		1		1	4.12		HP529		
4		1		1	9.32		JETS		
5		1		1	4.00		HP529		
6		19		19	170.33		DEPTH OUT		
7		19		19	178.26		DEPTH IN		
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									

TOTAL DAY WORK	
No. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS	
TOTAL MUD COST	
DRILLER	
C. J. J.	

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

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

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT	SIZE	No. LINES	METRES SLIPPED		
									25.4	6			
METRES CUT OFF										PRESENT LENGTH			
MEGAJOULES SINCE LAST CUT													
CUMULATIVE MEGAJOULES													

METRES DRILLED		FORMATION		ROTARY		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C.	Core No.	ISHOW CORE RECOVERY	RPM	WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min
1263	1273										

DEVIATION RECORD		DEPTH		DEV		DIRECTION		DEPTH		DEV		DIRECTION	
		1263		4°									

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
00:00	03:00	3.0	6	Hoist For PLUGGED JETS					12
03:00	06:00	3	6	R.H.					
06:00	09:45	3.75	3	REAM FROM 918m TO BOTTOM					
09:45	10:15	250	5	CIRC + CONDITION HOLE					
10:15	10:30	25	10	SURVEY @ 1263					
10:30	11:00	50	2	DRILL					
11:00	12:00	1	5	CIRC + CONDITION MUD					

REMARKS	

METRES DRILLED		FORMATION		ROTARY		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D. RM. R. CORE. C.	Core No.	ISHOW CORE RECOVERY	RPM	WT. ON BIT daN	PUMP PRESS	LINE SIZE	STROKES per min	LINE SIZE	STROKES per min
1273	1319	46		CONTROL DRILLED	80	1000	8500	140	66		

DEVIATION RECORD		DEPTH		DEV		DIRECTION		DEPTH		DEV		DIRECTION	
		1282		5°		1200		40					

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO								
12:00	12:15	25	7	RIG SERVICE					12
12:15	15:45	3.50	2	DRILL					
15:45	16:15	50	10	SURVEY @ 1282 + BLOW KELLY WITH STEAM					
16:15	18:45	2.50	2	DRILL					
18:45	19:15	.50	10	SURVEY @ 1301 + BLOW KELLY WITH STEAM					
19:15	24:00	4.75	2	DRILL					

REMARKS	

DRILLING CREW PAYROLL DATA				No.	
DATE	Year	Month	Day		
90	01	10			
WELL NAME & No.	L-44				
COMPANY	PARAMOUNT				
RIG MANAGER	YOUNG				
RIG No.	2				

FIRST TOUR 00:00 TO 12:00				INJURIES	
CREW	SOC. INI. No.	NAME	HRS	YES	NO
DRILLER		CORY JACK	12		
DERRICKMAN		DEAN KOBLY	12		
MOTORMAN		SIM SHULSON	13		
FLOORMAN		BRENT GREENSTEIN	12		
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

SECOND TOUR 12:00 TO 24:00				INJURIES	
CREW	SOC. INS. No.	NAME	HRS	YES	NO
DRILLER		J. THERIAULT	12		
DERRICKMAN		C. BYNGEN	12		
MOTORMAN		D. LINDSAY	12		
FLOORMAN		K. Smith	12		
FLOORMAN					
FLOORMAN					
LEASEMAN					
CRANE SUPT					
MECHANIC					
WELDER					
ROUSTABOUT					
ROUSTABOUT					
TRAINEE					
DERRICKMAN (2)					

FORM 276m



APPROVAL PENDING

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OFFICIAL DAILY DRILLING REPORT FORM



APPROVAL PENDING

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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE
	1	L-44		90 01 09
OPERATOR		CONTRACTOR	RIG No.	
PARAMOUNT RESOURCES		SIERRA DRILLING LTD.	2	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S RIG MANAGER		
D.P. SIZE		kg/m	GRADE	TOOL JT O.D.
114		24.7	E	146
114		24.7	E	146
TYPE THREAD		STRING No.	PUMP No.	PUMP MANUFACTURER
4 1/2 H-90		127	1	TRI SERVICE
4 1/2 X H		43		T-500
STROKE LENGTH		406		

TIME DISTRIBUTION - HOURS		No.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE No.		OPERATION		FIRST TOUR		SECOND TOUR		TIME	
1 RIG UP AND TEAR DOWN								DENSITY	
2 DRILL ACTUAL								PRESSURE GRADIENT	
3 REAMING				5.25				VISCOSITY	
4 CORING								PV mPa*s	
5 CONDITION MUD & CIRCULATE		2.25						GEL STR. Pa	
6 TRIPS		3.0		6.0				WATER LOSS cm ³	
7 LUBRICATE RIG				-50				pH	
8 REPAIR RIG								SOLIDS %	
9 CUT OFF DRILLING LINE								TOTAL METRES DRILLED	
10 DEVIATION SURVEY								TOTAL HRS RUN	
11 WIRE LINE LOGS								COND. 1/8" T/B GAGE	
12 RUN CASING & CEMENT								FLOW RATE m ³ /min	
13 WAIT ON CEMENT								PRESSURE DROP kPa	
14 NIPPLE UP B.O.P.								TOTAL	
15 TEST B.O.P.								(FORCE) WT. OF STRING daN	
16 DRILL STEM TEST								REMARKS	
17 PLUG BACK								HOLE VERY WASHED. 110 m ³ T ₈₀ PUMPED TO GAIN RETURNS.	
18 SQUEEZE CEMENT									
19 FISHING									
20 DIR. WORK									
21 MIX MUD		4.25							
22 ROTARY		2.50							
23 H ₂ S		.25							

COMPLETION		No.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A. PERF'T'N				BIT #548		1.00 m		TIME	
B. TBG TRIPS				49		SIZE		2000 2200	
C. TREATING				1 STB RMR		8.98 m		DENSITY	
D. SWABBING				D.C. ID SHOCK		4.12 m		PRESSURE GRADIENT	
E. TESTING				1 STB RMR		9.32 m		VISCOSITY	
F. ADDIT'L				D.C. ID SHOCK		4.00 m		42 46	
G.				1 STB RMR		170.33 m		PV mPa*s	
TOTALS		12 12		H STB RMR		170.33 m		GEL STR. Pa	
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				H STB RMR		170.33 m		WATER LOSS cm ³	
HRS. W/ CONTR. O.P.				H STB RMR		170.33 m		pH	
HRS. W/ OPR. O.P.				H STB RMR		170.33 m		SOLIDS %	
HRS. WO/DP				H STB RMR		170.33 m		COND. 1/8" T/B GAGE	
HRS. STANDBY				H STB RMR		170.33 m		FLOW RATE m ³ /min	
TOTAL DAY WORK				H STB RMR		170.33 m		PRESSURE DROP kPa	
No. OF DAYS FROM SPUD				H STB RMR		170.33 m		TOTAL	
CUMULATIVE ROTATING HRS				H STB RMR		170.33 m		(FORCE) WT. OF STRING daN	
TOTAL MUD COST				H STB RMR		170.33 m		REMARKS	

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

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.S. Signs Posted (if required)	Initial	Initial

LEGAL LAND DESCRIPTION		WIRE LINE RECORD	
OUTSIDE DIAMETER		SIZE	
INSIDE DIAMETER		No. LINES	
MAKE		METRES CUT OFF	
kg/m		PRESENT LENGTH	
GRADE		MEGAJOULES SINCE LAST CUT	
No. JOINTS		CUMULATIVE MEGAJOULES	
TOTAL LENGTH			
RKB. TO CSG. HD			
SET AT			

METRES DRILLED		FORMATION	
FROM	TO	(SHOW CORE RECOVERY)	
1263			

DEVIATION RECORD		DEPTH		DEV.		DIRECTION	

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO						
00:01	00:45	.75		21		MIX MUD	
00:45	01:15	.50		5		Pump 30m ³ IN HOLE (NO RETURNS)	
01:15	04:45	3.30		21		MIX MUD LCM	
04:45	05:00	.25		5		BREAK CIR. 5m ³ pumped RETURNS to SURFACE	
05:00	06:30	1.50		5		CIR. to CLEAR LCM OUT OF MUD	
06:30	09:30	3		6		Hoist to CHANGE BIT + REMOVE ROTARY HEAD @ 1263m	
09:30	12:00	2.50		22		REMOVE ROTARY HEAD + RIG UP FLOW LINE	

METRES DRILLED		FORMATION	
FROM	TO	(SHOW CORE RECOVERY)	
1263			

DEVIATION RECORD		DEPTH		DEV.		DIRECTION	

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	
FROM	TO						
12:00	12:15	.25		7		RIG SERVICE + FUNCTION TEST BOP STACK.	
12:15	16:15	4		6		RUN IN + BREAK CIR. EVERY 20 JOINTS	
16:15	20:00	3.75		3		REAM FROM 841m TO	
20:00	20:15	.25		7		RIG SERVICE	
20:15	21:00	.75		3		REAM	
21:00	21:15	.25		23		H ₂ S ALERT CLEARED Floor TESTED OK (CELLAR)	
21:15	22:00	.75		3		REAM	
22:00	24:00	2.0		6		Hoist FOR PLUGGED JETS	

METRES DRILLED		FORMATION	
FROM	TO	(SHOW CORE RECOVERY)	
1263			

DRILLING CREW PAYROLL DATA

DATE	90 01 09
WELL NAME & No.	L-44
COMPANY	PARAMOUNT
RIG MANAGER	YUON

FIRST TOUR 00:00 TO 12:00		INJURIES	
CREW	SOC. INS. No.	NAME	HRS
DRILLER		CORY VICK	12
DERRICKMAN		DEAN KOBLY	12
MOTORMAN		JIM SHULSON	12
FLOORMAN		BRENT GREENSTEIN	12
FLOORMAN			
FLOORMAN			
LEASEMAN			
CRANE SUPT			
MECHANIC			
WELDER			
ROUSTABOUT			
ROUSTABOUT			
TRAINEE			
DERRICKMAN (2)			

SECOND TOUR 12:00 TO 24:00		INJURIES	
CREW	SOC. INS. No.	NAME	HRS
DRILLER		J. THERIAULT	12
DERRICKMAN		C. BYRNOEN	12
MOTORMAN		D. UNDSAY	12
FLOORMAN		K. Smith	12
FLOORMAN			
FLOORMAN			
LEASEMAN			
CRANE SUPT			
MECHANIC			
WELDER			
ROUSTABOUT			
ROUSTABOUT			
TRAINEE			
DERRICKMAN (2)			

OFFICIAL DAILY DRILLING REPORT FORM

No.

LEASE		WELL No.		WELL NUMBER		WATER DEPTH		DATE											
		1		L-44				90 01 08											
OPERATOR		CONTRACTOR		RIG No.															
PARAMOUNT RESOURCES		STERRA DRILLING LTD.		2															
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		247		E		146		4 1/2 X 70		127		1		TRI SERVICE		T-500		406	
114		247		E		146		4 1/2 X 70		43									

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY				BIT RECORD				MUD RECORD			
				(at end of tour)											
CODE No. OPERATION FIRST TOUR SECOND TOUR				BIT No. 1.00 m				BIT No. 2				TIME			
1. RIG UP AND TEAR DOWN				x/0 .49				SIZE 222				DENSITY kg/m³			
2. DRILL ACTUAL 10.45 3.5				1 STB RMR DC OD 8.98 m				MFG. REED				PRESSURE GRADIENT			
3. REAMING				D.C. ID 4.12 m				TYPE HP51A				VISCOSITY			
4. CORING				1 STB RMR DC OD 9.32 m				JETS mm OPEN				PV mPa.s YP Pa			
5. CONDITION MUD & CIRCULATE .25 4.75				D.C. ID 4.00 m				SER. No. 028562				GEL STR. Pa			
6. TRIPS 1.0 2.50				19 STB RMR DC OD 170.33 m				DEPTH OUT RUN				WATER LOSS cm³			
7. LUBRICATE RIG .25 .25								DEPTH IN 1120				pH			
8. REPAIR RIG								TOTAL METRES DRILLED 124				SOLIDS %			
9. CUT OFF DRILLING LINE								TOTAL HRS. RUN 10							
10. DEVIATION SURVEY .50 .50															
11. WIRE LINE LOGS				STANDS D.P. m				COND. 1/8" T/B/GAGE 0 B				MUD & CHEMICALS ADDED			
12. RUN CASING & CEMENT				SINGLES D.P. 1045.85 m				FLOW RATE m³/min				TYPE AMT. kg			
13. WAIT ON CEMENT				KELLY DOWN 1045.85 m				PRESSURE DROP kPa							
14. NIPPLE UP B.O.P.				TOTAL 1244.11 m											
15. TEST B.O.P.															
16. DRILL STEM TEST				(FORCE) WT. OF STRING 55000 daN											
17. PLUG BACK															
18. SQUEEZE CEMENT															
19. FISHING															
20. DIR. WORK															
21. RUN MUD .50															
22.															
23.															

COMPLETION				No. DRILLING ASSEMBLY				BIT RECORD				MUD RECORD			
				(at end of tour)											
A. PERF. T.N.				BIT No. 1.00 m				BIT No. 2				TIME			
B. TBG TRIPS				x/0 .49				SIZE 222				DENSITY kg/m³			
C. TREATING				1 STB RMR DC OD 8.98 m				MFG. REED				PRESSURE GRADIENT			
D. SWABBING				D.C. ID 4.12 m				TYPE HP51A				VISCOSITY			
E. TESTING				1 STB RMR DC OD 9.32 m				JETS mm OPEN				PV mPa.s YP Pa			
F. ADDIT'L				D.C. ID 4.00 m				SER. No. 028562				GEL STR. Pa			
G.				19 STB RMR DC OD 170.33 m				DEPTH OUT R263				WATER LOSS cm³			
TOTALS 12 12								DEPTH IN 1120				pH			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)								TOTAL METRES DRILLED 143				SOLIDS %			
HRS. W/CONTR. D.P.								TOTAL HRS. RUN 13.5							
HRS. W/OPR. D.P.								COND. 1/8" T/B/GAGE 23 I				MUD & CHEMICALS ADDED			
HRS. W/D.P.								STANDS D.P. m				TYPE AMT. kg			
HRS. STANDBY								SINGLES D.P. 1065.19 m				FLOW RATE m³/min			
								KELLY DOWN m				PRESSURE DROP kPa			
								TOTAL 1263.43 m							
								(FORCE) WT. OF STRING 55000 daN							
TOTAL DAY WORK															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS.															
TOTAL MUD COST															

FORM 276m	APPROVAL PENDING	APPROVED	Copyright 1977 JANUARY	Revised December 1986
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LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.
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.		O.P.R.		R.M.	
(1) Daily Walk Around Inspection		Initial		Initial	
(2) Detailed Inspection-Weekly (using check list)		Initial		Initial	
(3) H&S Signs Posted (if required)		Initial		Initial	
(1) Rig Site Health and Safety Meeting (one meeting/crew/month)		Initial		Initial	
(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)		Initial		Initial	
(3) Mast Inspected Before Raising or Lowering		Initial		Initial	

LEGAL LAND DESCRIPTION										WIRE LINE RECORD									
										REEL No.									
										No. LINES									
										METRES SLIPPED									
										SIZE									
										No. CUT OFF									
										PRESENT LENGTH									
										MEGAJOULES SINCE LAST CUT									
										CUMULATIVE MEGAJOULES									

METRES DRILLED										FORMATION									
										(SHOW CORE RECOVERY)									
FROM TO										ROTARY RPM									
1120 1197 77										80 600 2050									
1197 1244 47										100 2000									
										REDUCED PUMP SPEED									

DEVIATION RECORD										DEPTH									
										DEV. 4 1/2°									
										DIRECTION									
										DEPTH									
										DEV.									
										DIRECTION									

TIME LOG										ELAPSED TIME									
FROM TO										CODE No.									
0001 0015 .25										7 RIG SERVICE V BRAKE PINS									
0015 0445 4.50										2 DRILL 222 mm HOLE									
0445 0515 .50										6 TRIP FOR FLOAT SUB									
0515 0545 .50										10 SURVEY @ 1197 (Bore RAN two)									
0545 11:15 5.50										2 DRG.									
11:15 11:45 .50										6 TRIP FOR FLOAT SUB									
11:45 12:00 .25										3 CIRC + CONDITION HOLE									

METRES DRILLED										FORMATION									
										(SHOW CORE RECOVERY)									
FROM TO										ROTARY RPM									
1244 1263 19										90 2000 3000									
										REDUCED PUMP SPEED									

DEVIATION RECORD										DEPTH									
										DEV. 4 1/2°									
										DIRECTION									
										DEPTH									
										DEV.									
										DIRECTION									

TIME LOG										ELAPSED TIME									
FROM TO										CODE No.									
12:00 12:15 .25										7 RIG SERVICE + FUNCTION TEST HYDRAULIC + HCR.									
12:15 12:45 .50										10 SURVEY @ 1244									
12:45 19:00 6.25										2/5 DRILL (3.5) TRY TO CIR HOLE NOT UNLOADING HOIST									
										SINGLES & WORK PIPE (2.75)									
1900 1930 .50										6 HOIST 20 SINGLES TO DISPLACE HOLE W/MUD 1263mm.									
1930 1945 .25										5 Pump 8 m³ IN HOLE									
1945 2045 1.0										6 HOIST 36 SINGLES (350mm.)									
2045 2145 .50										5 Pump 14 m³ IN HOLE									
2145 2215 1.0										6 HOIST 36 SINGLES (350mm.)									
2215 2230 1.25										5 Pump 50 m³ IN HOLE TRY TO GET MUD TO SURFACE									
2230 2400 .50										21 MUD MUD									

SECOND TOUR										No. OF DAYS									
										SINCE LAST LOST TIME ACCIDENT									

DRILLING CREW PAYROLL DATA										No.									
DATE 90 01 08																			
WELL NAME & No. L-44																			
COMPANY PARAMOUNT																			
RIG MANAGER YOUNG										RIG No. 2									

FIRST TOUR 00:00 TO 12:00										INJURIES									
CREW										SOC. INS. No.									
NAME										HRS									
YES										NO									
DRILLER										CORY VICK 12									
DERRICKMAN										DEAN KOBLY 12									
MOTORMAN										JIM SHULSON 12									
FLOORMAN										BRENT GREENSTEIN 12									
FLOORMAN																			
FLOORMAN																			
LEASEMAN																			
CRANE SUPT																			
MECHANIC																			
WELDER																			
ROUSTABOUT																			
ROUSTABOUT																			
TRAINEE																			
DERRICKMAN (2)																			

SECOND TOUR 12:00 TO 24:00										INJURIES									
CREW										SOC. INS. No.									
NAME										HRS									
YES										NO									
DRILLER										A. THERIAULT 12									
DERRICKMAN										C. BYRON 12									
MOTORMAN										D. LINDSAY 12									
FLOORMAN										K. Smith 12									
FLOORMAN																			
LEASEMAN																			
CRANE SUPT																			
MECHANIC																			
WELDER																			
ROUSTABOUT																			
ROUSTABOUT																			
TRAINEE																			
DERRICKMAN (2)																			

No. OF DAYS										SINCE LAST LOST TIME ACCIDENT									
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OFFICIAL DAILY DRILLING REPORT FORM



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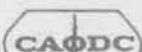


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No.

DAILY DRILLING REPORT REPORT No.

LEASE				WELL No. 1		WELL NUMBER L-44		WATER DEPTH		DATE 900107 Yr. Mo. Day	
OPERATOR PARAMOUNT RESOURCES						CONTRACTOR STIERA DRILLING LTD.				RIG No. 2	
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	146	4 1/2" X 90	127	1	TRI SERVICE		T-500		406
114	24.7	E	146	4 1/2" X H	43						

TIME DISTRIBUTION - HOURS				No.	DRILLING APPLICABILITY (at end of tour)	BIT RECORD						MUD RECORD			
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR		BIT	<i>D SUB</i>	<i>1.00 m</i>	BIT No.	<i>2</i>			TIME			
1	RIG UP AND TEAR DOWN					<i>X/O</i>	<i>.49</i>	SIZE	<i>222</i>			DENSITY kg/m ³			
2	DRILL ACTUAL				STB RMR	<i>SHOCK</i>	<i>OD 4.12 m</i>	MFG	<i>REED</i>			PRESSURE GRADIENT			
3	REAMING		<i>11.5</i>		1	D C ID	<i>59 mm OD 8-98 m</i>	TYPE	<i>HPSIA</i>			VISCOSITY			
4	CORING				STB RMR	<i>LARS</i>	<i>OD 4.00 m</i>	JETS mm	<i>OPEN</i>			PV mPa.s	YP Pa	/	/
5	CONDITION MUD & CIRCULATE	<i>.50</i>			20	D C ID	<i>157 mm OD 179-65 m</i>	SER. No.	<i>028562</i>			GEL STR Pa		/	/
6	TRIPS	<i>4.0</i>			STB RMR		<i>OD m</i>	DEPTH OUT				WATER LOSS cm ³			
7	LUBRICATE RIG		<i>.25</i>			<i>RHA</i>	<i>198-26</i>	DEPTH IN	<i>1120</i>			pH			
8	REPAIR RIG							TOTAL METRES DRILLED				SOLIDS %			
9	CUT OFF DRILLING LINE							TOTAL HRS RUN							
10	DEVIATION SURVEY		<i>.25</i>					COND: 1/B's T/B/GAGE				MUD & CHEMICALS ADDED			
11	WIRE LINE LOGS					STANDS D P	<i>m</i>	FLOW RATE m ³ /min				TYPE	AMT. kg	TYPE	AMT. kg
12	RUN CASING & CEMENT					SINGLES DP	<i>614.32 m</i>	PRESSURE DROP kPa				<i>GEL 145x</i>			
13	WAIT ON CEMENT					KELLY DOWN	<i>m</i>					<i>BALITE 40 ST</i>			
14	NIPPLE UP B.O.P.					TOTAL	<i>812-98 m</i>					<i>DRIS Pac 1 st</i>			
15	TEST B.O.P.					(FORCE) WT. OF STRING	<i>45000 daN</i>								
16	DRILL STEM TEST				REMARKS										
17	PLUG BACK														
18	SQUEEZE CEMENT														
19	FISHING														
20	DIR. WORK														
21	<i>WO COMP. 75</i>														

DRILLER *Conrad*

COMPLETION		No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD						MUD RECORD			
A PERF RT'N		BIT		100 m	BIT No.	2				TIME					
B TBG TRIPS		X10	.49		SIZE	222				DENSITY					
C TREATING		STB RMR DC OD	8.98 m	MFG.	REED					PRESSURE GRADIENT					
D SWABBING		O.C. ID SHOCK OD	4.12 m	TYPE	HPSIA					VISCOSITY					
E TESTING		STB RMR DC OD	7.32 m	JETS mm	0 PEU					PV mPa's YP Pa	/	/	/		
F ADDIT'L		O.C. ID HRS OD	4.00 m	SER. No.	02882					GEL STR. Pa	/	/	/		
G		STB RMR DC OD	170.37 m	DEPTH OUT	RUN					WATER LOSS cm ³					
TOTALS	12 12	19 BHA	178.26	DEPTH IN	1120					pH					
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				TOTAL METRES DRILLED	0					SOLIDS %					
HRS W/CONTR. D.P.				TOTAL HRS RUN	0										
HRS W/OPR. D.P.															
HRS WO/D.P.		STANDS DP	m	COND. 1/8" T/B/GAGE						MUD & CHEMICALS ADDED					
HRS STANDBY		96 SINGLES DP	m	FLOW RATE m ³ /min	/					TYPE	AMT. kg	TYPE	AMT. kg		
		KELLY DOWN	m	PRESSURE DROP kPa											
		TOTAL	1120.28 m												
		(FORCE) WT. OF STRING	51,000 lbs												
		REMARKS													
TOTAL DAY WORK															
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS															
TOTAL MUD COST															

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 <i>[Signature]</i>	Initial <i>[Signature]</i>	(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/S Signs Posted (if required)	Initial _____	Initial _____	(3) Mast Inspected Before Raising or Lowering	Initial _____

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			REEL No.
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD.	SET AT	SIZE	No. LINES	METRES SLIPPED	
											25.4	60	
											METRES CUT OFF		PRESENT LENGTH
											MEGAJOULES SINCE LAST CUT		
											CUMULATIVE MEGAJOULES		

METRES DRILLED		DR. D RM-R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METH RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
1120					120							
						REDUCED PUMP SPEED						

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

[illegible]

METRES DRILLED		DR. D RM R CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METH RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
1120												
						REDUCED PUMP SPEED						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	1120	2°							

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
12:00	12:15	25	7	RIG SERVICE	12
12:15	23:45	11:5	3	REAM BACK TO BOTTOM FROM 212m	
23:45	2400	.25	10	SURVEY @ 1120	

DRILLING CREW PAYROLL DATA

No.

DATE 70 01 07
Year Month Day
WELL NAME & No. L-44
COMPANY PARAMOUNT
RIG MANAGER WOOD RIG No. 2

[illegible]

SECOND TOUR 12:00 TO 24:00					INJURIES	
CREW	SOC INS. No.	NAME	HRS	YES	NO	
DRILLER		J. Theriault	12			
DERRICKMAN		C. Bymoen	12			
MOTORMAN						

MOTORMAN			D. GORDON	12
FLOORMAN			H. Smith	12
FLOORMAN				
FLOORMAN				
LEASEMAN				
CRANE SUPT				
MECHANIC				
WELDER				
ROUSTABOUT				
ROUSTABOUT				
TRAINEE				
DERRICKMAN (2)				
No. OF DAYS.		SINCE LAST LOST TIME ACCIDENT		



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No.

DAILY DRILLING REPORT

REPORT No.

LEASE	WELL No.	WELL NUMBER	WATER DEPTH	DATE					
	1	L-44		90 01 05 Yr. Mo. Day					
OPERATOR PARAMOUNT RESOURCE		CONTRACTOR STERRA DRILLING LTD.	RIG No. 2						
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	247	E	146	4 1/2 x 40	123	1	TRI SERVICE	T-500	406
114	24.7	E	146	4 1/2 x 40	43				

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR	BIT	SIZE	BIT No.	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY	SOLIDS %
1	RIG UP AND TEAR DOWN			8:30 B	70						
2	DRILL ACTUAL	10	6:25	STB RMR	40 OD	16	MFG	REED			
3	REAMING		1:35	D.C. ID	159 OD	188.63	TYPE	HP51A			
4	CORING			STB RMR	40 OD	50	JETS	mm	OPEN		
5	CONDITION MUD & CIRCULATE			D.C. ID	159 OD	190.29	SER. No.	L44512			
6	TRIPS	1.25	2.0	STB RMR	40 OD		DEPTH OUT	RUN			
7	LUBRICATE RIG	.50					DEPTH IN	391			
8	REPAIR RIG						TOTAL METRES DRILLED	585			
9	CUT OFF DRILLING LINE						TOTAL HRS. RUN	2534			
10	DEVIATION SURVEY	.25	.25				COND. 1/8" T/B/GAGE	0.8			
11	WIRE LINE LOGS			STANDS D.P.			TYPE	AMT. kg	TYPE	AMT. kg	
12	RUN CASING & CEMENT			SINGLES	DP	726.03	FLOW RATE	m ³ /min			
13	WAIT ON CEMENT			KELLY DOWN			PRESSURE DROP	kPa			
14	NIPPLE UP B.O.P.			TOTAL		976.32					
15	TEST B.O.P.			(FORCE) WT. OF STRING		46000	daN				
16	DRILL STEM TEST			REMARKS							
17	PLUG BACK			- DEPTH @ 07:00 891m.							
18	SQUEEZE CEMENT			- 73 SINGLES							
19	FISHING			- 40,000 daN.							
20	DIR. WORK			DRILLER Cory Jick							
21	WOC comp	1.75									
22											
23											

COMPLETION				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD		MUD RECORD	
A	PERF'TN	B	TBG TRIPS	BIT	SIZE	BIT No.	TIME	DENSITY	PRESSURE GRADIENT	VISCOSITY	SOLIDS %
C	TREATING			DA 348	70						
D	SWABBING			STB RMR	40 OD	16	MFG	REED			
E	TESTING			D.C. ID	159 OD	188.63	TYPE	HP51A			
F	ADDIT'L			STB RMR	40 OD	50	JETS	mm	OPEN		
G				D.C. ID	159 OD	190.29	SER. No.	L44512			
TOTALS	12	12		STB RMR	40 OD		DEPTH OUT	RUN			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)							DEPTH IN	391			
HRS W/CONTR. D.P.							TOTAL METRES DRILLED	729			
HRS W/OPR. D.P.							TOTAL HRS. RUN	32			
HRS WD/DP							COND. 1/8" T/B/GAGE	0.8			
HRS STANDBY							TYPE	AMT. kg	TYPE	AMT. kg	
							SINGLES	DP	930.54	FLOW RATE	m ³ /min
							KELLY DOWN			PRESSURE DROP	kPa
							TOTAL	1120.83			
							(FORCE) WT. OF STRING	49,000	daN		
TOTAL DAY WORK							REMARKS				
							FIRE EXTINGUISHER CHECK BY DARREN WILSON				
							SLIP & CUT 30 MM. DRILL LINE				
							DRILLER DE TO SH				

LEGEND

Metric expressions:

All lengths expressed in metres to two decimal places.

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/S Signs Posted (if required)	Initial	Initial

LEGAL LAND DESCRIPTION										WIRE LINE RECORD		REEL No.	
OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG HD	SET AT	SIZE	No. LINES	METRES SLIPPED		
									29.4	6	30		
LAST CASING TUBING OR LINER										METRES CUT OFF		PRESENT LENGTH	
										30			
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D RM-R CORE-C	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PANEL. P. COM'D. C		
756	976			80	1300	1200							
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
		823		1/2°				976		34			

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO	TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS				
00:01	03:15	3.25	2	DRILL	12				
03:15	04:00	.75	6	TRIP FOR FLOAT SUB					
04:00	04:15	.25	10	SURVEY @ 823m					
04:15	07:15	3	2	DRILL					
07:15	07:45	.50	7	RIG SERVICE + BOP DRILL					
07:45	11:30	3.75	2	DRILL					
11:30	12:00	2.50	6	TRIP FOR FLOAT SUB TIGHT HOLE PULL TO FREE POINT					
13:00	14:45	1.75	3	REAM + CIRC BACK TO BOTTOM					
14:45	15:00	.25	10	SURVEY @ 976					
15:00			2	DRILL					

METRES DRILLED		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		PUMP PRESS		PUMP No.		PUMP No.		METHOD RUN	
FROM	TO	DR. D RM-R CORE-C	CORE No.	ROTARY RPM	WT. ON BIT daN	PUMP PRESS	LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	SGL. S. PANEL. P. COM'D. C		
976	1120			70	1200	1400							
DEVIATION RECORD		DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
		976		3/4									

TIME LOG		ELAPSED TIME		CODE No.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS		BOILER HOURS	
FROM	TO	TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS				
12:00	13:00	1.00	6	TRIP FOR FLOAT SUB TIGHT HOLE PULL TO FREE POINT					
13:00	14:45	1.75	3	REAM + CIRC BACK TO BOTTOM					
14:45	15:00	.25	10	SURVEY @ 976					
15:00	21:15	6.15	2	DRILL					
21:15	22:15	1.00	6	TRIP FOR FLOAT SUB					
22:15			8	CIR. HOLE CLEAN - TRY TOO COMPRESSURE DOWN					
24:00		1.75	21	BULKY WAIT ON NEW ONE					
				HOLD TO 700 MM. 43 SINGLES					

DRILLING CREW PAYROLL DATA

DATE		90 01 05		No.	
Year		Month		Day	
WELL NAME & No.		L-44			
COMPANY		PARAMOUNT			
RIG MANAGER		YUON		RIG No. 2	

FIRST TOUR 00:00 TO 12:00						INJURIES	
CREW	SOC. INS. No.	NAME	HRS	YES	NO		
DRILLER		CORY JICK	12				
DERRICKMAN		DEAN KOBLY	12				
MOTORMAN		JIM SHULSON	12				
FLOORMAN		BRENT GREENSTEIN	12				
FLOORMAN							
FLOORMAN							
LEASEMAN							
CRANE SUPT.							
MECHANIC							
WELDER							
ROUSTABOUT							
ROUSTABOUT							
TRAINEE							
DERRICKMAN (2)							

SECOND TOUR 12:00 TO 24:00						INJURIES	
CREW	SOC. INS. No.	NAME	HRS	YES	NO		
DRILLER		J. Theriault	12				
DERRICKMAN		C. Bymoen	12				
MOTORMAN		D. LINDSAY	12				
FLOORMAN		K. Smith	12				
FLOORMAN							
LEASEMAN							
CRANE SUPT.							
MECHANIC							
WELDER							
ROUSTABOUT							
ROUSTABOUT							
TRAINEE							
DERRICKMAN (2)							

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OFFICIAL DAILY DRILLING REPORT FORM

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No.

DAILY DRILLING REPORT REPORT No.

LEASE				WELL No. 1		WELL NUMBER L-44		WATER DEPTH		DATE 90 01 04 Yr. Mo. Day	
OPERATOR PARAMOUNT RESOURCE						CONTRACTOR SIERRA DRILLING LTD. RIG No. 2					
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>						SIGNATURE OF CONTRACTOR'S RIG MANAGER <i>[Signature]</i>					
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	146	4 1/2" 90	127	1	TRI-SERVICE		T-500	406
114		24.7	E	146	4 1/2" 90	43					

TIME DISTRIBUTION - HOURS				No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD				
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR		BIT	.30m	BIT No.	1			TIME				
1.	RIG UP AND TEAR DOWN				Bit SUB	.70	SIZE	222			DENSITY kg/m ³				
2.	DRILL ACTUAL	4.75	11		STB RMR	X6 OD .16 m	MFG.	REED			PRESSURE GRADIENT				
3.	REAMING				21 D.C. ID 159mm OD 188.63m		TYPE	HP51A			VISCOSITY				
4.	CORING				STB RMR	OD .50 m	JETS mm	OPEN			PV mPa.s YP Pa	/	/	/	
5.	CONDITION MUD & CIRCULATE				D.C. ID	OD	SER. No.	L44512			GEL STR. Pa	AP	/	/	
6.	TRIPS		.50		STB RMR	OD	DEPTH OUT	RUN			WATER LOSS cm ³				
7.	LUBRICATE RIG	.25					DEPTH IN	391			pH				
8.	REPAIR RIG						TOTAL METRES DRILLED	134			SOLIDS %				
9.	CUT OFF DRILLING LINE						TOTAL HRS. RUN	4.75							
10.	DEVIATION SURVEY		.50		STANDS DP	m COND. 1/8's T/B/GAGE	0 B				MUD & CHEMICALS ADDED				
11.	WIRE LINE LOGS				SINGLES DP	335.50m	FLOW RATE m ³ /min	/	/		TYPE	AMT. kg	TYPE	AMT. kg	
12.	RUNCASING & CEMENT				KELLY DOWN	m	PRESSURE DROP kPa								
13.	WAIT ON CEMENT				TOTAL	525.2m									
14.	NIPPLE UP B.O.P.				(FORCE) WT OF STRING	33,000 daN									
15.	TEST B.O.P.				REMARKS										
16.	DRILL STEM TEST				7.00 DEPTH 409m.										
17.	PLUG BACK														
18.	SQUEEZE CEMENT														
19.	FISHING														
20.	DIR. WORK				HELD BOP DRILL w/CREW										
21.	Flow Hole 6.75				DRILLER HALL LEBLANC										
22.	Bop Drill 2.5														
23.															
COMPLETION	A. PERF'T'N				No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
	B. TBG TRIPS				BIT	.30m	BIT No.	1			TIME				
	C. TREATING				Bit SUB	.70	SIZE	222			DENSITY kg/m ³				
	D. SWABBING				STB RMR	X6 OD .16 m	MFG.	REED			PRESSURE GRADIENT				
	E. TESTING				21 D.C. ID 159mm OD 188.63m		TYPE	HP51A			VISCOSITY				
	F. ADDIT'N'L				STB RMR	FLAT END .50m	JETS mm	OPEN			PV mPa.s YP Pa	/	/	/	
	G.				D.C. ID	OD 190.27	SER. No.	L44512			GEL STR. Pa	AP	/	/	
					STB RMR	OD	DEPTH OUT	IN			WATER LOSS cm ³				
							DEPTH IN	391			pH				
							TOTAL METRES DRILLED	365			SOLIDS %				
TOTALS		12					TOTAL HRS. RUN	15.75							
DAY WORK TIME SUMMARY (OFFICE USE ONLY)					STANDS DP	m COND. 1/8's T/B/GAGE	0 B				MUD & CHEMICALS ADDED				
HRS. W/ CONTR. D.P.				59 SINGLES DP	566.16m	FLOW RATE m ³ /min	/	/		14 Gel					
HRS. W/ OPR. D.P.				KELLY DOWN	m	PRESSURE DROP kPa				42 Dark					
HRS. WO/DP				TOTAL	756.45m										
HRS. STANDBY				(FORCE) WT. OF STRING	40,000 daN										
TOTAL DAY WORK					REMARKS										
					38,000										
No. OF DAYS FROM SPUD															
CUMULATIVE ROTATING HRS															
TOTAL MUD COST															
					DRILL										

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 (m^3/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
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)
(2) Detailed Inspection-Weekly (using check list)	Initial _____	Initial _____	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month)
(3) H/S Signs Posted (if required)	Initial _____	Initial _____	(3) Mast Inspected Before Raising or Lowering

LEGAL LAND DESCRIPTION										WIRE LINE RECORD					
										REEL No.					
										SIZE		No. LINES		METRES SLIPPED	
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD	SET AT	25.4	6	88			
										METRES CUT OFF		PRESENT LENGTH			
										MEGAJOULES SINCE LAST CUT					
										CUMULATIVE MEGAJOULES					

METRES DRILLED		DR. D. -AM-B. CORE-G	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS. psi	PUMP No.		PUMP No.		METHOD RUN
FROM	TO							LINE SIZE	STROKES per min	LINE SIZE	STROKES per min	
391	525	134			110	1000	150					
						REDUCED PUMP SPEED	600 kpa					

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

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
					12

00.00	0645	6 ^{3/4}	21	DR BLOW AIR DRY HOLE
06.45	0800	1.25	2	DRILL 222 mm HOLE W/AIR
08.00	0830	.50	7/2	RIG SERVICE (.25) BOP DRILL 1.25)
08.30	1200	3.50	2	DRILL

METRES DRILLED		GR-D RM-P CORE: C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	AIR PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN
FROM	TO							LINEAR SIZE	STROKES per min.	LINEAR SIZE	STROKES per min.	
525	756	231			80	12000	1000 KPA					
						REDUCED PUMP SPEED						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	563	1°		679	1½°				

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
					12

12:00	14:00	2	2	DRILL (100) SURVEY (568) (128)
14:00	14:15	.25	10	SURVEY
14:15	20:15	6	2	DRILL
20:15	21:00	.75	6/10	TRIP FOR FLOAT SUB + SURVEY (679) (.25)
21:00	24:00	3.0	2	DRILL

DRILLING CREW PAYROLL DATA

No.

DATE 90 01 04
 Year Month Day
 WELL NAME & No. L-44
 COMPANY PARAMOUNT
 RIG MANAGER YUON

FIRST TOUR 00:00 TO 12:00					INJURIES	
CREW	S/C	INS. No.	NAME	HRS	YES	NO
DRILLER			G. LEBLANC	12		
DERRICKMAN			S. SEABOURNE	12		
MOTORMAN			L. CHARBONNEAU	12		
LOORMAN			D. DARTWRIGHT	12		
LOORMAN						
LOORMAN						
EASEMAN						
IRANE SUPT.						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

to. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT _____

[illegible]

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OFFICIAL DAILY DRILLING REPORT FORM



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No.

DAILY DRILLING REPORT

REPORT No.

LEASE			WELL No.		WELL NUMBER		WATER DEPTH		DATE		
			1		L-444				90.01.03 Yr. Mo. Day		
OPERATOR					CONTRACTOR					RIG No.	
PARAMOUNT RESOURCE					 SIERRA DRILLING LTD.					2	
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
1 1/4	24.7	E	4 1/2 H70	14C	127	1	TRI-SERVICE		T-500		406
1 1/4	24.7	E	4 1/2 H70	14C	43						

TIME DISTRIBUTION - HOURS				No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR			BIT No.				TIME			
1	RIG UP AND TEAR DOWN					SIZE				DENSITY kg/m ³			
2	DRILL ACTUAL					STB RMR	OD	m	MFG.		PRESSURE GRADIENT		
3	REAMING					D.C. ID	OD	m	TYPE		VISCOSITY		
4	CORING					STB RMR	OD	m	JETS mm		PV mPa.s	YP Pa	
5	CONDITION MUD & CIRCULATE		1/4			D.C. ID	OD	m	SER No.		GEL STR Pa		
6	TRIPS		1 1/4			STB RMR	OD	m	DEPTH OUT		WATER LOSS cm ³		
7	LUBRICATE RIG								DEPTH IN		pH		
8	REPAIR RIG	9 1/2	4						TOTAL METRES DRILLED		SOLIDS %		
9	CUT OFF DRILLING LINE								TOTAL HRS RUN				
10	DEVIATION SURVEY					STANDS D.P.		m	COND. T/B's T/B-GAGE		MUD & CHEMICALS ADDED		
11	WIRE LINE LOGS										TYPE	AMT. kg	
12	RUN CASING & CEMENT					SINGLES DP		m	FLOW RATE m ³ /min				
13	WAIT ON CEMENT					KELLY DOWN		m	PRESSURE DROP kPa				
14	NIPPLE UP B.O.P.					TOTAL		m					
15	TEST B.O.P.	2 1/2	1/2			(FORCE) WT. OF STRING		daN					
16	DRILL STEM TEST					REMARKS							
17	PLUG BACK												
18	SQUEEZE CEMENT												
19	FISHING												
20	DIR. WORK												
21	DRILL SHOE		3 1/4										
DRILLER <i>H. M. [Signature]</i>													

COMPLETION		No.	DRILLING ASSEMBLY (at end of tour)	BIT RECORD				MUD RECORD			
A. PERF'RTN		BIT	BT .30 m	BIT No	1			TIME			
B. TBG TRIPS			BT SUB .70	SIZE	222			DENSITY			
C. TREATING		STB	RMR 4/10 OD .16 m	MFG.	REED			PRESSURE			
D. SWABBING		21	D.C. ID 159 OD 188.63 m	TYPE	HP51A			GRADIENT			
E. TESTING		STB	RMR 214 OD 189.79 m	JETS	mm	OPEN		VISCOSITY			
F. ADDIT'L		D.C.	ID OD m	SER. No				PV	YP		
G.		STB	RMR OD m	DEPTH OUT				GEL STR.			
TOTALS	12 12			DEPTH IN	391			Pa			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				TOTAL METRES DRILLED				SOLIDS %			
HRS. W/CONTR. D.P.				TOTAL HRS. RUN							
HRS. W/OPR. D.P.				COND. 1/8's T/B/GAGE				MUD & CHEMICALS ADDED			
HRS. WO/DP				FLOW RATE m ³ /min				TYPE	AMT. kg	TYPE	AMT. kg
HRS. STANDBY				PRESSURE DROP kPa							
(FORCE) WT. OF STRING			daN								
REMARKS											
TOTAL DAY WORK											
No. OF DAYS FROM SPUD											
CUMULATIVE ROTATING HRS.											
TOTAL MUD COST											
DRILLER											

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m^3)
 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 (m^3/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
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 <u> </u>	Initial <u> </u>	(1) Rig Site Health and Safety Meeting (one meeting/crew/month) Initial <u> </u>
(2) Detailed Inspection-Weekly (using check list)	Initial <u> </u>	Initial <u> </u>	(2) C.A.O.D.C. Rig Safety Inspection Check List (one/rig/month) Initial <u> </u>
(3) H/S Signs Posted (if required)	Initial <u> </u>	Initial <u> </u>	(3) Mast Inspected Before Raising or Lowering Initial <u> </u>

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			REEL No.
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG. HD	SET AT	SIZE	No. LINES	METRES SLIPPED	
											1254	6	
										METRES CUT OFF		PRESENT LENGTH	
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

METRES DRILLED		DR. D RM-R CORE C	CORE No	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
391												
						REDUCED PUMP SPEED						

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

[illegible]

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

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

TIME LOG			ELAPSED TIME		CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO						
12.00	16.00	4.	8		REPAIR VALVES IN MANGIFOLD PRESS TEST		12
16.00	16.45	75	6		RUN IN HOLE W/BIT		
16.45	20.00	3 1/4	21		DRILL SHOE TAGED CEMENT @ 358mm. DRILL		
20.00	20.15	1/4	5		CIRC		
20.15	20.45	1/2	15		LEAK OFF TEST		
20.45	21.15	1/2	6		P.O.O.H. To BLOW OUT WATER		
21.15	22.00	3/4	22		DEICE AIR MANGIFOLD & BLOW OUT WATER		
22.00	22.15	1/4	6		RUN IN HOLE		
22.15	24.00	1 3/4	22		BLOW OUT HOLE DRY		

DRILLING CREW PAYROLL DATA

No.

DATE 70 01 03
Year Month Day
WELL NAME & No. L-44
COMPANY PARADYUNT
RIG MANAGER YVON RIG No. 2

[illegible]

SECOND TOUR 12:00 TO 24:00					INJURIES	
CREW	SOC. INS. No.	NAME	HRS	YES	NO	
DRILLER		J. THERIAULT	12			
DERRICKMAN		C. BYMOEN	12			
MOTORMAN		D. WOOD	12			

[illegible]

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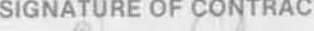


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No.

DAILY DRILLING REPORT

REPORT No.

LEASE				WELL No.		WELL NUMBER		WATER DEPTH		DATE	
				1		2.44				80 d 22 Yr. Mo. Day	
OPERATOR						CONTRACTOR				RIG No.	
PARAMOUNT Resources						 SIERRA DRILLING LTD.				2.	
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
1 1/4		24.7	E	1 1/4	4 1/2 X 70	127	1	T&I SERVICE		7.500	406
1 1/4		24.7	F	1 1/4	4 1/2 XH	43					

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR			BIT	m	BIT No.			TIME				
1	RIG UP AND TEAR DOWN		3					SIZE			DENSITY kg/m ³				
2	DRILL ACTUAL					STB RMR	OD	m	IMFG		PRESSURE GRADIENT				
3	REAMING					D.C. ID	OD	m	TYPE		VISCOSITY				
4	CORING					STB RMR	OD	m	JETS mm		PV mPa.s	YP Pa	/	/	
5	CONDITION MUD & CIRCULATE					D.C. ID	OD	m	SER. No.		GEL STR. Pa		/	/	
6	TRIPS		1 1/2			STB RMR	OD	m	DEPTH OUT		WATER LOSS cm ³				
7	LUBRICATE RIG								DEPTH IN		pH				
8	REPAIR RIG								TOTAL METRES DRILLED		SOLIDS %				
9	CUT-OFF DRILLING LINE								TOTAL HRS. RUN						
10	DEVIATION SURVEY					STANDS DP	m	COND. 1/8" S T/B/GAGE			MUD & CHEMICALS ADDED				
11	WIRE LINE LOGS										TYPE	AMT. kg	TYPE	AMT. kg	
12	RUN CASING & CEMENT					SINGLES DP	m	FLOW RATE m ³ /min							
13	WAIT ON CEMENT					KELLY DOWN	m	PRESSURE DROP kPa							
14	NIPPLE UP B.O.P.		12			TOTAL	m								
15	TEST B.O.P.		3 1/2			(FORCE) WT. OF STRING	daN								
16	DRILL STEM TEST					REMARKS	DWAYNE CARTWRIGHT HIT HIS FINGER WITH A HAMMER.								
17	PLUG BACK														
18	SQUEEZE CEMENT														
19	FISHING														
20	DIR. WORK														
21															

FIRST TOUR

DRILLER *J. M. L. L. L.*

COMPLETION		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
A. PERF'RTN		BIT	m	BIT No.				TIME			
B. TBG TRIPS				SIZE				DENSITY kg/m ³			
C. TREATING		STB RMR OD	m	RMFG				PRESSURE GRADIENT			
D. SWABBING		D.C. ID	m	TYPE				VISCOSITY			
E. TESTING		STB RMR OD	m	JETS mm				PV mPa*s	YP Pa	/	/
F. ADDIT'L		D.C. ID	m	SER. No.				GEL STR. Pa	/	/	/
G.		STB RMR OD	m	DEPTH OUT				WATER LOSS cm ³			
TOTALS				DEPTH IN				pH			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				TOTAL METRES DRILLED				SOLIDS %			
HRS. W/CONTR. D.P.				TOTAL HRS. RUN				MUD & CHEMICALS ADDED			
HRS. W/OPR. D.P.								TYPE	AMT. kg	TYPE	AMT. kg
HRS. WO/DP				STANDS DP	m	COND. 1/8's T.B/GAGE					
HRS. STANDBY				SINGLES DP	m	I/FLOW RATE um ³ /min	/	/	/	BARITE 121	CAUSTIC 1
				KELLY DOWN	m	IPRESSURE IDROP kPa				GEL 53	
				TOTAL	m					DISPER 3	
				FORCE/ WT. OF STRING	daN					FOUR 1	
TOTAL DAY WORK		REMARKS Rig up Onshore P.W.T									
No. OF DAYS FROM SPUD											
CUMULATIVE ROTATING HRS.											
TOTAL MUD COST											

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 (m^3/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
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/S Signs Posted (if required)	Initial _____	Initial _____	(3) Mast Inspected Before Raising or Lowering Initial _____

LEGAL LAND DESCRIPTION									WIRE LINE RECORD						REEL No.
	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No JOINTS	TOTAL LENGTH	RKB TO CSG HD.	SET AT	SIZE 23-4	No LINES 6	METRES SKIPPED			
LAST CASING TUBING OR LINER	244.5	270.45	HPCO	8.6	J55"	30	2655	3.70	289.2			METRES CUT OFF			
												PRESENT LENGTH			
	MEGAJOULES SINCE LAST CUT														
	CUMULATIVE MEGAJOULES														

[illegible]

METRES DRILLED		DR. D. RM. R. CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No.		PLUMP No.		METHOD RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
391												
					REDUCED PUMP SPEED							
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS							
FROM	TO											
12.00				PRES TEST BLIND RAM. H.C.R. AND MANIFOLD HORN VALVE								
13.00	13.00	1	15	To - 1400 To 7000 KPA OF.								
13.00	14.00	1	15	PRES TEST MANIFOLD ORDER PARTS FOR VALVES.								
14.00	17.00	3	14	RIG UP FLOW LINE AND AIR DRILLER AIR LINE								
17.00	18.30	1 1/2	6	RUN IN WITH B.T. #1 + MAKE UP 15 HPA								
18.30				CHANGE VALVE AROUND ON CASING BOWL AND PRES TEST								
				FOR LOW AND HYDRILL TO 1400 TO 7000 KPA								
				FIX LEAK BETWEEN HYDRILL + BLIND RAM								
	24.00	5 1/2	15	BLEED HYDRILL PRESSURE LINE								

DRILLING CREW PAYROLL DATA

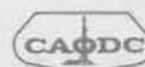
No.

DATE 90 01 12
Year Month Day
WELL NAME & No. 2-44
COMPANY PARAMOUNT
RIG MANAGER YUON RIG No. 2

FIRST TOUR 00:00 TO 12:00						INJURIES	
CREW/	SOC. INS. No.	NAME	HRS		YES	NO	
DRILLER		GILLES, LEBLANC	12			☒	
DERRICKMAN		STUBS. SEABURN	12			☒	
MOTORMAN		LUC. CHARBONNEAU	12			☒	
FLOORMAN		DAVIDE CARLBERG	12		☒		
FLOORMAN							
FLOORMAN							
LEASEMAN							
CRANE SUPT							
MECHANIC							
WELDER							
ROUSTABOUT							
ROUSTABOUT							
TRAINEE							
DERRICKMAN (2)							
No. OF DAYS	SINCE LAST LOST TIME ACCIDENT						

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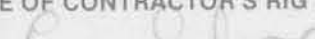


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No.

DAILY DRILLING REPORT					REPORT No.		
LEASE			WELL No.	WELL NUMBER		WATER DEPTH	DATE Yr. Mo. Day
			1	L-44			9 01 01
OPERATOR				CONTRACTOR		RIG No.	
PARAMOUNT RESOURCE				 SIERRA DRILLING LTD.		2	
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.	STROKE LENGTH
114	24.7	E	146	4 1/2 H-70		1	406
						PUMP MANUFACTURER	TYPE
						TRI-SERVICE	T-500

TIME DISTRIBUTION - HOURS				No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD				
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR			BIT		BIT No.				TIME				
1	RIG UP AND TEAR DOWN							SIZE				DENSITY kg/m ³				
2	DRILL ACTUAL					STB RMR	OD	m	MFG.			PRESSURE GRADIENT				
3	REAMING					D.C. ID	OD	m	TYPE			VISCOSITY				
4	CORING					STB RMR	OD	m	JETS mm			PV mPa.s	YP Pa	/	/	/
5	CONDITION MUD & CIRCULATE					D.C. ID	OD	m	SER. No.			GEL STR. Pa	/	/	/	/
6	TRIPS					STB RMR	OD	m	DEPTH OUT			WATER LOSS cm ³				
7	LUBRICATE RIG								DEPTH IN			pH				
8	REPAIR RIG								TOTAL METRES DRILLED			SOLIDS %				
9	CUT OFF DRILLING LINE								TOTAL HRS RUN							
10	DEVIATION SURVEY															
11	WIRE LINE LOGS					STANDS D.P.		m	COND. 1/8" T/B/GAGE			MUD & CHEMICALS ADDED				
12	RUN CASING & CEMENT	2				SINGLES D.P.		m	FLOW RATE m ³ /min	/	/	TYPE	AMT. kg	TYPE	AMT. kg	
13	WAIT ON CEMENT	2				KELLY DOWN		m	PRESSURE DROP kPa			Ca ²⁺	60	NaCl	4	
14	NIPPLE UP B.O.P.		7 1/2			TOTAL		m				107	37			
15	TEST B.O.P.											1				
16	DRILL STEM TEST					(FORCE) WT. OF STRING		daN				1				
17	PLUG BACK					REMARKS										
18	SQUEEZE CEMENT															
19	FISHING															
20	DIR. WORK															
21	DIS. CEMENT	2	1													
DRILLER <i>J. L. L. L.</i>																

COMPLETION		No. DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD				
A. PERF. RTN B. TBG TRIPS C. TREATING D. SWABBING E. TESTING F. ADDIT'N L G.				BIT		m	BIT No.		TIME			
							SIZE		DENSITY kg/m ³			
		STB RMR	OD	m	MFG		PRESSURE GRADIENT					
		D.C. ID	OD	m	TYPE		VISCOSITY					
		STB RMR	OD	m	JETS mm		PV mPa.s	YP Pa	/	/	/	/
		D.C. ID	OD	m	SER. No		GEL STR. Pa		/	/	/	/
	STB RMR	OD	m	DEPTH OUT		WATER LOSS cm ³						
TOTALS		12	12				DEPTH IN		pH			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)							TOTAL METRES DRILLED		SOLIDS %			
HRS. W/CONTR. D.P.							TOTAL HRS. RUN		MUD & CHEMICALS ADDED			
HRS. W/OPR. D.P.									TYPE	AMT. kg	TYPE	AMT. kg
HRS. WO/DP				STANDS DP		m	COND. 1/8" S T.B/GAGE					
HRS. STANDBY				SINGLES DP		m	FLOW RATE m ³ /min	/	/			
				KELLY DOWN		m	PRESSURE DROP kPa					
				TOTAL		m						
				(FORCE) WT. OF STRING		daN						
REMARKS												
TOTAL DAY WORK												
No. OF DAYS FROM SPUD												
CUMULATIVE ROTATING HRS.												
TOTAL MUD COST												

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 (m^3/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
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 <i>[Signature]</i>	Initial <i>[Signature]</i>	(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/S Signs Posted (if required)	Initial _____	Initial _____	(3) Mass Inspected Before Raising or Lowering Initial _____

LEGAL LAND DESCRIPTION										WIRE LINE RECORD			
										REEL No			
										SIZE	No. LINES	METRES SLIPPED	
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG HD.	SET AT	25.4	6		
										METRES CUT OFF	PRESENT LENGTH		
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

METRES DRILLED		DR. D HM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No.		PUMP No.		METHOD RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
391												
						REDUCED PUMP SPEED						

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

[illegible][illegible]

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION

[illegible]

DRILLING CREW PAYROLL DATA

No.

DATE 90 01 01
Yr. Month Day

WELL NAME & No. L-44

COMPANY PARAMOUNT

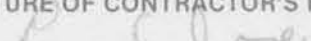
RIG MANAGER YUON

RIG No. 2

[illegible][illegible]

No.

DAILY DRILLING REPORT REPORT No.

LEASE			WELL No.		WELL NUMBER		WATER DEPTH		DATE		
			1		L-44				87 12 31 Yr. Mo. Day		
OPERATOR					CONTRACTOR					RIG No.	
PARAMOUNT RESOURCE					 SIERRA DRILLING LTD.					2	
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	146	4 1/2 H-8		1	TRI-SERVICE		T-500	406

TIME DISTRIBUTION - HOURS				No.	DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
CODE No.	OPERATION	FIRST TOUR	SECOND TOUR		BIT	m	BIT No.				TIME			
1	RIG UP AND TEAR DOWN						SIZE				DENSITY kg/m ³	1280		
2	DRILL ACTUAL				STB RMR	OD	m	MFG			PRESSURE GRADIENT			
3	REAMING				D.C. ID	OD	m	TYPE			VISCOSITY	79		
4	CORING				STB RMR	OD	m	JETS mm			PV mPa.s	/	/	/
5	CONDITION MUD & CIRCULATE	.50	4		D.C. ID	OD	m	SER. No.			GEL STR. Pa	/	/	/
6	TRIPS	3-25	2		STB RMR	OD	m	DEPTH OUT			WATER LOSS cm ³			
7	LUBRICATE RIG	.25						DEPTH IN			pH	10		
8	REPAIR RIG							TOTAL METRES DRILLED			SOLIDS %			
9	CUT OFF DRILLING LINE							TOTAL HRS RUN			MUD & CHEMICALS ADDED			
10	DEVIATION SURVEY				STANDS D.P.	m	COND. T/B GAGE				TYPE	AMT. kg	TYPE	AMT. kg
11	WIRE LINE LOGS				SINGLES DP	m	FLOW RATE m ³ /min	/	/	/				
12	RUN CASING & CEMENT	8-0	6		KELLY DOWN	m	PRESSURE DROP kPa							
13	WAIT ON CEMENT				TOTAL	m								
14	NIPPLE UP B.O.P.				(FORCE) WT. OF STRING	daN								
15	TEST B.O.P.				REMARKS									
16	DRILL STEM TEST													
17	PLUG BACK													
18	SQUEEZE CEMENT													
19	FISHING													
20	DIR. WORK													
21														

DRILLER *Hish Lohman*

COMPLETION		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
23	A. PERF. ITN	BIT	30 m	BIT No.	3A	TIME	1500				
	B. TBG TRIPS	BTSUB	79	SIZE	311	DENSITY kg/m³	1280				
	C. TREATING	STB RMR	4/6 OD .16 m	MIFG	REED	PRESSURE GRADIENT					
	D. SWABBING	D.C. ID	139 OD 188.63 m	TYPE	5113	VISCOSITY	90				
	E. TESTING	STB RMR	4/6 OD .20 m	JETS mm	3K127	PV mPa.s	YP Pa	/	/	/	
	F. ADDIT'L	D.C. ID	OD m	SER. No.	BTS900	GEL STR. Pa	/	/	/	/	
G.	STB RMR	OD m	DEPTH OUT	391	WATER LOSS cm³						
TOTALS				DEPTH IN	391	pH	10				
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				TOTAL METRES DRILLED	0	SOLIDS %					
HRS. W/ CONTR. D.P.				TOTAL HRS. RUN	0	MUD & CHEMICALS ADDED					
HRS. W/ OPR. D.P.				STANDOS DP	m	COND. 1/8's T/B/GAGE	21 I				
HRS. WO/DP				SINGLES DP	DP	FLOW RATE m³/min	/	/	6E2	29 SK	
HRS. STANDBY				KELLY DOWN	8-90 m	PRESSURE DROPP kPa			CRUSTIC	1 SK	
				TOTAL	391.00 m						
		(FORCE) WT. OF STRING	26,000 daN								
TOTAL DAY WORK		REMARKS									
No. OF DAYS FROM SPUD											
CUMULATIVE ROTATING HRS											
TOTAL MUD COST											

LEGEND

All lengths expressed in metres to two decimal places.

flow rate = cubic metre per minute (m^3/min)
pressure gradient = kilopascal per metre (kPa/m)
yield point = pascal (Pa)
plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
gel strength = pascal (Pa)
work completed by wire line = megajoule (MJ)
inside diameter and outside diameter = millimetre (mm)
pump pressure = kilopascal (kPa)

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)

E.R.C.B.

- (1) Daily Walk Around Inspection
- (2) Detailed Inspection-Weekly (using check list)
- (3) H₂S Signs Posted (if required)

OPR

Initial 5

R.M.

al _____
al _____
al _____

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	SIZE 25.4	No. LINES 6	METRES SLIPPED
										METRES CUT OFF		PRESENT LENGTH
										MEGAJOULES SINCE LAST CUT		
										CUMULATIVE MEGAJOULES		

DRILLING CREW PAYROLL DATA

No.

DATE 89 12 31

Year Month Day
WELL NAME & No 6-14

COMPANY PARAMOUNT

RIG MANAGER YvonRIG No. 2

METRES DRILLED		DR. D RM. R CORE. C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No.		PUMP No.		METHOD RUN
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
391												
						REDUCED PUMP SPEED						

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

TIME LOG		ELAPSED TIME	CODE No	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
00.00	01.15	1 1/4	12	RUN CSG.	12 From 7
01.15	02.00	1 3/4	12	BRIDGE OFF TRY GET CSG. DOWN	
02.00	08.00	5.0	12	PULL OUT CSG.	
08.00	08.15	.25	7	RIG SERVICE V BRAKE PINS	
08.15	11.30	3.25	6	RIG TO & R/H (REAM FR. 90m. to 230m)	
11.30	12.00	.50	5	CIR TO CLEAN HOLE & CONDITION MUD.	

METRES DRILLED		DR. D. RM. P. CORE C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No.		METHOD RUN
FROM	TO							LINER SIZE	STROKES per min.	LINER SIZE	STROKES per min.	
391							700	140	65			
TD												
						REDUCED PUMP SPEED						

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

TIME LOG		ELAPSED TIME	CODE No.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS	BOILER HOURS
FROM	TO				
1200	1500	3.0	5	CIR - COND. MND	12
1500	1700	2.0	6	HOIST TO RUN CSG	
1700	23.00	6	12	R16 TO 7 RMD CSG.	
23.00	24.00	1	5	CIR. CSG.	

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OFFICIAL DAILY DRILLING REPORT FORM



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No.

DAILY DRILLING REPORT

REPORT No.

LEASE			WELL No.		WELL NUMBER		WATER DEPTH		DATE		
			1		L-44				8/12/30 Yr. Mo. Day		
OPERATOR					CONTRACTOR					RIG No.	
PARAMOUNT RESOURCE					 SIERRA DRILLING LTD.					2	
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	146	4X H-90		1	TRI-SERVICE		T-500	406	

[illegible]

COMPLETION		No.		DRILLING ASSEMBLY (at end of tour)		BIT RECORD				MUD RECORD			
A. PERFORATION		BIT		30	m	BIT No.	3A			TIME	1600	T	
B. TBG TRIPS				Bit SUB	.79	SIZE	3 1/2			DENSITY kg/m ³	1260	R	
C. TREATING		STB RMR	x/6 OD	.16	m	MFG	REED			PRESSURE GRADIENT			
D. SWABBING		D.C. ID	57mm OD	88.63	m	TYPE	S 11J			VISCOSITY	54	P	
E. TESTING		STB RMR	x/6 OD	.20	m	JETS	mm	3	127	PV mPa.s	/	/	/
F. ADDITION		D.C. ID	OD		m	SER. No.		BT5900		GEL STR. Pa	/	/	/
G.		STB RMR	OD		m	DEPTH OUT		391		WATER LOSS cm ³			
TOTALS	12 12					DEPTH IN		392		pH	10		
DAY WORK TIME SUMMARY (OFFICE USE ONLY)						TOTAL METRES DRILLED		19		SOLIDS %			
HRS. W/CONTR. D.P.						TOTAL HRS. RUN		.75					
HRS. W/DPR. D.P.		STANDS DP	m			COND. 1/8's T/B/GAGE	2	1	I	MUD & CHEMICALS ADDED			
HRS. WO/DP										TYPE	AMT. kg	TYPE	AMT. kg
HRS. STANDBY		20	SINGLES DP	189.68	m	FLOW RATE m ³ /min	/	/		GEL	18		
			KELLY DOWN	8.90	m	PRESSURE DROP kPa				CAUTION	1		
			TOTAL	391.00	m								
		(FORCE) WT. OF STRING		26.000	dan								
TOTAL DAY WORK		REMARKS											
No. OF DAYS FROM SPUD													
CUMULATIVE ROTATING HRS.													
TOTAL MUD COST		2890.9											

LEGEND

All lengths expressed in metres to two decimal places.

Metric expressions:

mud density = kilogram per cubic metre (kg/m^3)
 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 (m^3/min)
 pressure gradient = kilopascal per metre (kPa/m)
 yield point = pascal (Pa)
 plastic viscosity = millipascal second ($\text{mPa}\cdot\text{s}$)
 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.	E.R.C.B.	OPR	R.M.
(1) Daily Walk Around Inspection	Initial <u>HL</u>	Initial _____	(1) Rig Site Health and Safety Meeting (one meeting/crew/month)	Initial _____	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 _____	Initial _____
(3) H ₂ S Signs Posted (if required)	Initial _____	Initial _____	(3) Mast Inspected Before Raising or Lowering	Initial _____	Initial _____

LEGAL LAND DESCRIPTION										WIRE LINE RECORD		REEL No.	
LAST CASING TUBING OR LINER	OUTSIDE DIAMETER	INSIDE DIAMETER	MAKE	kg/m	GRADE	No. JOINTS	TOTAL LENGTH	RKB. TO CSG. HD	SET AT	SIZE	No. LINES	METRES SLIPPED	
											25.4	6	
										METRES CUT OFF		PRESENT LENGTH	
										MEGAJOULES SINCE LAST CUT			
										CUMULATIVE MEGAJOULES			

METRES DRILLED		DR. D RM-R CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS.	PUMP No. 1		PUMP No.		METH. RUN
FROM	TO						LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
228	372		BIT #2	120	1400	7.00	140	65			
					REDUCED PUMP SPEED						

DEVIATION RECORD	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	238	1°		266	¼°		305	1°	

[illegible]

METRES DRILLED		DR. D. AM-B. CORE-C	CORE No.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	(FORCE) WT. ON BIT daN	PUMP PRESS	PUMP No. 1		PUMP No.		METHOD RUI
FROM	TO							LINER SIZE	STROKES per min	LINER SIZE	STROKES per min	
372	391	19			120	1400	6000	140	65			S
	TD											
						REDUCED PUMP SPEED						

DEVIATION RECORD	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION	DEPTH	DEV	DIRECTION
	382	10							

[illegible]

DRILLING CREW PAYROLL DATA

No.

DATE 27 12 30
Year Month Day
WELL NAME & No. L-44
COMPANY PARAMOUNT
RIG MANAGER YVON
RIG No. 2

FIRST TOUR 00:00 TO 12:00					INJURIES	
CREW	SOC. INS. No.	NAME	HRS		YES	NO
DRILLER		G. LEBLANC	12			✓
DERRICKMAN		S. SEABOURNE	12			✓
MOTORMAN		L. CHARBONNEAU	12			✓
FLOORMAN		D. CARTWRIGHT	12			✓
FLOORMAN						
FLOORMAN						
LEASEMAN						
CRANE SUPT						
MECHANIC						
WELDER						
ROUSTABOUT						
ROUSTABOUT						
TRAINEE						
DERRICKMAN (2)						

No. OF DAYS		SINCE LAST LOST TIME ACCIDENT		SECOND TOUR 12:00 TO 24:00		INJURIES	
CREW	SOC. INS. No.	NAME	HRS	YES	NO	YES	NO
DRILLER		J. THERIAULT	12				
DERRICKMAN		C. Brynson	12				
MOTORMAN		D. Lindsay	12				
FLOORMAN		K. Smith	12				
FLOORMAN							
FLOORMAN							
LEASEMAN							
CRANE SUPT							
MECHANIC							
WELDER							
ROUSTABOUT							
ROUSTABOUT							
TRAINEE							
DERRICKMAN (2)							



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