



Daily Completion/Workover Report

PRESENT OPERATION: WELL SHUT IN & SECURED. MOVING OUT EQUIPMENT. LAST REPORT.

P.01

PAJAK ENGINEERING LTD.

TUBING/BOTTOM HOLE SUMMARY

Page 1 of 2

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61	RPT NO: 1
LOCATION: 300-I61-6050-12315-0	DATE: 99/02/28
STRING #: 1 OF 1	

KB ELEVATION: 262.50 m	KB to CASING FLANGE: 6.90 m	PLUG BACK DEPTH: 2640.50 mKB
	KB to TUBING TOP: 6.20 m	LATEST PB DEPTH: 2298.00 mKB

HOLE SIZE: mm	HOLE SIZE: mm	HOLE SIZE: mm
CASING O.D.: 508.0 mm	CASING O.D.: 339.7 mm	CASING O.D.: 244.0 mm
MIN. I.D.: 485.7 mm	MIN. I.D.: 315.3 mm	MIN. I.D.: 222.8 mm
WEIGHT: 139.8 kg/m	WEIGHT: 101.1 kg/m	WEIGHT: 64.73 kg/m
FROM: 6.90 mKB	FROM: 6.90 mKB	FROM: 6.90 mKB
TO: 150.80 mKB	TO: 569.60 mKB	TO: 2073.00 mKB

LINER O.D.: 177.8 mm	WEIGHT: 43.16 kg/m	FROM: 1899.00 mKB
	MIN. I.D.: 157.0 mm	TO: 2657.00 mKB

TUBING O.D.: 88.9 mm	TUBING O.D.: mm	TUBING O.D.: mm
WEIGHT: 13.84 kg/m	WEIGHT: kg/m	WEIGHT: kg/m
FROM: 6.20 mKB	FROM: mKB	FROM: mKB
TO: 2082.50 mKB	TO: mKB	TO: mKB
TYPE: J-55 EUE ST&C	TYPE:	TYPE:
MAKE: FEDMET TUBULAR	MAKE:	MAKE:

PUMP

Pump Jack: Make:		Model:		
QTY.	DESCRIPTION	O.D.	LENGTH	KB DEPTH

ROD

QTY.	DESCRIPTION	O.D.	LENGTH	KB DEPTH



PAJAK ENGINEERING LTD.

TUBING/BOTTOM HOLE SUMMARY

Page 2 of 2

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61	RPT NO: 1
LOCATION: 300-I61-6050-12315-0	DATE: 99/02/28
STRING #: 1 OF 1	

Permanent String From Top Down

QTY	ITEM	DESCRIPTION	MAX O.D.	MIN I.D.	MEASURED LENGTH	KB DEPTH
		KB to TUBING TOP				6.20
1		WIRELINE DEPTH TO TALLY DIFF.			-2.28	3.92
1		COMPRESSION 5,000 daN			-0.30	3.62
1	TBG HANGER	ABB "WP-1" EUE W/ 3" BPVT	279.4	88.9	0.24	3.86
1	NIPPLE	EUE J-55 PIN x PIN	114.3	76.0	0.17	4.03
1	JOINT	EUE J-55	114.3	76.0	9.23	13.26
2	NIPPLES	EUE J-55 (0.22 m & 0.20 m)	114.3	76.0	0.42	13.68
215	JOINTS	EUE J-55	114.3	76.0	2037.53	2051.21
1	NIPPLE	OTIS "X" EUE W/69.85 mm PROFIL	114.3	69.8	0.37	2051.58
1	JOINT	EUE J-55	114.3	76.0	9.20	2060.78
1	SEAL ASSEM	BAKER "E-22" ANCHOR SEAL ASSEM	101.6	76.0		2060.78
1	PACKER	BAKER "F-1" RET. PROD. PACKER	148.5	101.6	0.59	2061.37
1	X/O	X/O FROM PACKER TO SEAL BORE	148.5	101.6	0.17	2061.54
1	SEAL BORE	BAKER SEAL BORE EXTENSION	127.0	101.6	2.84	2064.38
1	X/O	FROM SEAL BORE TO 88.9 mm NSCT	144.7	76.0	0.17	2064.55
1	PUP JOINT	NSCT L-80	114.3	76.0	3.10	2067.65
1	NIPPLE	OTIS "X" NSCT (INCOLOGY) W/ 69.85 mm PROFILE	101.4	69.8	0.32	2067.97
1	PUP JOINT	NSCT L-80	114.3	76.0	3.10	2071.07
1	NIPPLE	OTIS "X" NSCT BOX x EUE PIN W/ 69.85 mm PROFILE	101.4	69.8	0.34	2071.41
1	PUP JOINT	EUE J-55 PERFORATED	114.3	76.0	3.09	2074.50
2	PUP JOINTS	EUE J-55 (3.08 m EACH)	114.3	76.0	6.16	2080.66
1	PUP JOINTN	69.85 mm OTIS "XN" EUE W/ 69.85 PROFILE/66.93 mm NOGO	101.4	66.9	0.41	2081.07
1	PUP JOINT	EUE J-55	114.3	76.0	1.26	2082.33
1	SEP TOOL	SEPERATION TOOL	114.3	76.0	0.52	2082.85
		PERFORATIONS: UPPER ARNICA 2311 - 2318 mKB UPPER NAHANNI 2085 - 2093 mKB ANCHOR SEAL ASSEMBLY LENGTH = 0.86 m.				
TOTAL STRING LENGTH					2076.65	

STRING WEIGHT: 33000 daN WEIGHT ON PACKER: 4000 daN WEIGHT ON HANGER: 29000 daN
 WEIGHT ON ANCHOR: 0 daN

REMARKS:

DEBRIS IN HOLE FROM BOTTOM UP: PBTD = 2640.5 mKB
 TCP CONSISTING OF 7 m OF GUNS, FIRING HEAD, PUP JOINT W/ DROP BAR, X/O,
 FLOW SUB AND BOTTOM HALF OF SEPERATION TOOL. TOTAL LENGTH = 12.3 m.
 TOP OF TCP ASSEMBLY = 2628.2 mKB.
 BAKER MODEL "S" PERMANENT BRIDGE PLUG SET @ 2306.0 mKB.
 CEMENT DUMPED ON TOP OF PLUG. CEMENT TOP @ 2298.0 mKB.
 TCP CONSISTING OF 4 m OF GUNS W/ PRESSURE ACTIVATED FIRING HEAD ON BOTTOM,
 FIRING HEAD, PUP JOINT W/ DROP BAR, X/O, FLOW SUB, AND BOTTOM HALF OF
 SEPERATION TOOL. TOTAL LENGTH = 9.2 m. TOP OF TCP ASSEMBLY = 2288.8 mKB.

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/03/01
LOCATION:	300-I61-6050-12315-0	DAY #:	22
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT DEPTH:	2298.00 mKB	AFE \$:	1371000
PBTD:	2640.50 mKB	RIG:	CENALTA WELL SERVICE
FORMATION:	UPPER NAHANNI	PERFORATIONS:	2085.0 to 2093.0 mKB
FORMATION:		PERFORATIONS:	to mKB

PRESENT OPERATION: WAITING FOR TRUCKS TO MOVE OUT EQUIPMENT

PREVIOUS DAY OPERATION: SITP:	0.0 KPa	SICP:	0.0 KPa	CODE	COMPANY	COST
1999.02.28 @ 00:00 HOURS:				-	PAJAK	1500
PUMPED 12.0m3 INHIBITED FRESH WATER DOWN				-	CENALTA WELL	8000
TUBING. DID NOT SEE ANY PRESSURE. RIGGED IN				-R	BEAVER ENT	2800
SLICKLINE. RAN AS FOLLOWS:				-R	MUSTANG RENTALS	157
#1: RIH WITH 69.85mm OD "PX" PLUG TO SET IN				-R	DESTINY RENTALS	102
69.85mm ID "X" NIPPLE @ 2071.07mKB.				-R	DUNVEGAN RNTLS	334
COULD NOT PASS THROUGH "X" NIPPLE @				-R	NEW BEGINNING	185
2051.21mKB. POOH. INSTALLED KNUCKLE				-R	TEL/FAX/TELEX	150
IN TOOL STRING ABOVE PLUG.				-R	McCLELLANDS	492
#2: RIH WITH "PX" PLUG AND SET IN "X" NIPPLE				-R	BEAVER ENT	675
@ 2071.07mKB. POOH.				-	BEMANFREE MED	400
#3: RIH AND SET PRONG IN PLUG @ 2071.07mKB.				-	NORWARD TESTERS	3744
POOH. FLUID LEVEL IS 980m FROM SURFACE.				-	S.O.S.	750
FILLED TUBING WITH 4.0m3 INHIBITED WATER.				-	BONNETS W/LINE	4369
PRESSURE TESTED PLUG TO 14.0 MPa. GOOD SOLID				-S	DOWNHOLE PLUG	4970
10 MINUTE TEST. RIGGED OUT SLICKLINE.				-	HUSKY TRANSPRT	5520
UNLATCHED SEAL ASSEMBLY FROM PRODUCTION				-	COMPASS TRNSFER	0
PACKER AND PULLED CLEAR. RIGGED UP TO				-	BAKER OIL TOOLS	5933
CIRCULATE ANNULUS OVER TO INHIBITED WATER.				-	BAKER PETROLITE	5492
ESTABLISHED CIRCULATION @ 0.40m3/MINUTE.				-		
08:00 HOURS: SHIFT CHANGE.				-		
08:00 HOURS:				-		
CONTINUED TO CIRCULATE WELL OVER TO BAKER				-		
CRW-132 @ 1.5% INHIBITED FRESH H2O TO				-		
DISPLACE THE ANNULUS WITH 68.0m3 FLUID.				-		
RELATCHED ANCHOR TYPE SEAL ASSEMBLY INTO THE				-		
PERMANENT PACKER @ 2060.78mKB. LANDED OFF				-		
TUBING HANGER, TUBING STRING IN 4000 daN				-		
COMPRESSION. BUTTONED UP WELLHEAD LAG				-		
SCREWS. PRESSURE TESTED ANNULUS AND SEAL				-		
ASSEMBLY TO 14 MPa. GOOD SOLID 10 MINUTE				-		
TEST. RIGGED DOWN ALL RELATED HANDLING				-		
EQUIPMENT AND WORKING FLOOR. STRIPPED OFF				-		
DAILY COST:						45573
PREVIOUS COST:						1145572
CUMULATIVE COST:						1191145

RESERVOIR FLUID SUMMARY			LOAD FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE	FLUID	RECOVERED	LEFT TO RECOVER
				DAILY	CUMULATIVE
WATER	0.00 m3	349.50 m3	OIL BASED	0.00 m3	0.00 m3
OIL/CONDENSATE	0.00 m3	0.00 m3	WATER BASED	65.00 m3	158.86 m3
GAS FLARED	0.00 m3	0.00 m3			
HOURS Flow/Swab	0.00 hrs	86.00 hrs			

FLUID VOLUMES		RIG HOURS	
TUBING	9.30 m3	DAILY	
ANNULUS	64.40 m3	PREVIOUS	493.00
CASING	81.70 m3	CUMULATIVE	493.00

WEATHER: SUNNY -4 C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/03/01
DAY #: 22

REMARKS

BOP STACK IN SECTIONS TO PREPARE IT FOR TRANSPORT. PUSHED SLIP HOSE DOWN THE ANNULUS TO DISPLACE THE TOP PORTION OF H2O OUT. TOPPED UP ANNULUS WITH .15m3 CLEAR DIESEL (TO ELIMINATE FREEZING). REPEATED PROCEDURE FOR THE TUBING STRING (TO ELIMINATE FREEZING). INSTALLED BACK PRESSURE VALVE IN THE TUBING HANGER, INSTALLED WELLHEAD ASSEMBLY, CLOSED AND SECURED ALL OUTLETS COMPLETE WITH CHAIN AND LOCK. RIGGED DOWN SERVICE RIG AND ALL RELATED EQUIPMENT, CLEANED LOCATION OF ALL DEBRIS. TRANSCONTINENTAL OILFIELD INDUSTRIES TRUCKS TO ARRIVE 1999.03.01 TO START LOADING EQUIPMENT AND HAUL OFF OF LOCATION. SHUT DOWN FOR NIGHT AT 19:00 HOURS 1999.02.28.

PAJAK ENGINEERING LTD.

TUBING TALLY

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61										DATE: 99/02/28			
LOCATION: 300-I61-6050-12315-0													
SUPERVISOR: WEISHAAR/KITTELSON										PHONE #: (600) 700-2629		CCARD #:	
SIZE: 88.9 mm		WEIGHT: 13.84 kg/m		THREAD: EUE		GRADE: J-55		MAKE: ST&C					

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
151	9.23		181	9.53		211	9.52		241	9.53	1	271	9.51	1
152	9.22		182	9.54		212	9.67		242	9.51	1	272	9.53	1
153	9.54		183	9.42		213	9.53		243	9.53	1	273	9.53	1
154	9.52		184	9.53		214	9.53		244	9.52	1	274	9.22	1
155	9.53		185	9.53		215	9.53		245	9.53	1	275	9.53	1
156	9.53		186	9.20		216	9.14		246	9.54	1	276	9.20	1
157	9.52		187	9.52		217	9.53		247	9.53	1	277	9.52	1
158	9.42		188	9.52		218	9.24	2	248	9.53	1	278	9.52	1
159	9.53		189	9.52		219	8.94	2	249	9.53	1	279	9.52	1
160	9.25		190	9.52		220	9.52	2	250	9.53	1	280	9.13	1
TOTAL	94.29		TOTAL	94.83		TOTAL	94.15		TOTAL	95.28		TOTAL	94.21	

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
161	9.53		191	9.62		221	9.53	1	251	9.23	1	281	9.53	1
162	9.51		192	9.20		222	9.52	1	252	9.54	1	282	9.53	1
163	9.52		193	9.51		223	9.52	1	253	9.53	1	283	9.52	1
164	9.21		194	9.52		224	9.54	1	254	9.53	1	284	9.54	1
165	9.53		195	9.53		225	9.53	1	255	9.53	1	285		
166	9.52		196	9.53		226	9.53	1	256	9.53	1	286		
167	9.52		197	9.53		227	9.52	1	257	9.24	1	287		
168	9.53		198	9.52		228	9.53	1	258	9.53	1	288		
169	9.53		199	9.52		229	9.51	1	259	9.53	1	289		
170	9.67		200	9.52		230	9.52	1	260	9.53	1	290		
TOTAL	95.07		TOTAL	95.00		TOTAL	95.25		TOTAL	94.72		TOTAL	38.12	

JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
171	9.52		201	9.22		231	9.24	1	261	9.52	1	291		
172	9.52		202	8.85		232	9.52	1	262	9.23	1	292		
173	9.53		203	9.53		233	9.53	1	263	9.52	1	293		
174	9.53		204	9.52		234	9.52	1	264	9.16	1	294		
175	9.12		205	9.53		235	8.90	1	265	9.53	1	295		
176	9.53		206	9.54		236	9.53	1	266	9.53	1	296		
177	9.52		207	9.52		237	9.55	1	267	9.53	1	297		
178	9.55		208	9.74		238	9.18	1	268	9.53	1	298		
179	9.53		209	9.52		239	8.93	1	269	8.90	1	299		
180	9.52		210	9.53		240	9.52	1	270	9.52	1	300		
TOTAL	94.87		TOTAL	94.50		TOTAL	93.42		TOTAL	93.97		TOTAL		

GROUP #	LENGTH	GROUP #	LENGTH	GROUP #	LENGTH	JTS	LENGTH	
151-160	94.29	201-210	94.50	251-260	94.72	150	1421.25	Brought Forward
161-170	95.07	211-220	94.15	261-270	93.97	134	1267.68	Page Total
171-180	94.87	221-230	95.25	271-280	94.21	284	2688.93	Total on Location
181-190	94.83	231-240	93.42	281-290	38.12	67	632.67	Total Left Out (incl. LJ)
191-200	95.00	241-250	95.28	291-300		217	2056.26	Total Perm. in Hole
				TOTAL	1267.68			

REMARKS
64 - 88.9 mm EUE TBG JTS IN NEW CONDITION TRANSFERRED TO KTS YARD IN NISKU.
3 -- 88.9 mm EUE TBG JTS IN BAD CONDITION TRANSFERRED TO KTS YARD IN NISKU.
* THE DAMAGED TBG JTS WERE SHOWING SIGNS OF CORROSION ON THE EXTERIOR OF BODY AND ARE MARKED WITH RED PAINT - INSPECTION OF THE THREE ONLY.
TBG SHIPPED VIA TRANSCONTINENTAL OILFIELD INDUSTRIES 99/03/01.

CD 00/07

* 1 = Left Out 2 = Damaged

MAR-01-1999 08:03

403 264 1584

97%

P.03

PAJAK ENGINEERING LTD.

GENERAL WELLHEAD INFORMATION

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61	RPT #: 1
LOCATION: 300-I61-6050-12315-0	DATE: 99/02/08

Casing Bowl

Make: ABB VETCO	Model:	Serial #:
Flange Size: 339.7 mm	Pressure Rating: MPa	
Surface Csg. Size: 339.7 mm	Hanger Type:	
Outlet #1: Size: 50.8 mm	Screwed ☒ Flanged ☐ Blanked ☐ Plugged ☒	
Outlet #2: Size: 50.8 mm	Screwed ☒ Flanged ☐ Blanked ☐ Plugged ☐	
Casing Vent: Installed ☒ Valve Open ☒		

Intermediate Spool

Make: ABB VETCO	Model:	Serial #:
Flange Size: Btm: 339.7 mm	Pressure Rating: MPa	Top: 279.4 mm Pressure Rating: 35.0 MPa
Hanger Type: SP2WA		
Outlet #1: Size: 50.8 mm	Screwed ☒ Flanged ☐ Blanked ☐ Plugged ☒	
Valve #1: Make: Size: mm	Serial #: Pressure Rating: MPa	Gate ☐ Ball ☐
Outlet #2: Size: 50.8 mm	Screwed ☒ Flanged ☐ Blanked ☐ Plugged ☐	
Valve #2: Make: CSG VENT	Serial #: Pressure Rating: 21.0 MPa	Gate ☐ Ball ☒
Size: 50.8 mm		

Tubing Head

Make: ABB VETCO	Model: ABB "WP-1"	Serial #: 23980-01
Flange Sz: Btm: 279.4 mm Slip On ☐	Press. Rtg.: 35.0 MPa	Top: 279.4 mm Press. Rtg.: 35.0 MPa
Hanger Type: 11" X 3.5" W/ BPVT	Size: 88.9 mm	Thread: EUE
Outlet #1: Size: 52.4 mm	Screwed ☐ Flanged ☒ Blanked ☐ Plugged ☐	
Valve #1: Make: ABB VETCO	Serial #: 23492 102	Gate ☒ Ball ☐
Size: 79.4 mm	Pressure Rating: 35.0 MPa	
Outlet #2: Size: 52.4 mm	Screwed ☐ Flanged ☒ Blanked ☐ Plugged ☐	
Valve #2: Make: ABB VETCO	Serial #: 23492 122	Gate ☒ Ball ☐
Size: 79.4 mm	Pressure Rating: 35.0 MPa	

Tubing Head Adapter

Make: ABB VETCO	Model: XP - 1
Btm Flange Size: 279.4 mm	Pressure Rating: 35.0 MPa
Top Flange Size: 79.4 mm or	mm EUE PIN UP Pressure Rating: 35.0 MPa
Tubing Suspension Thread: mm	Thread Type:
Special Prep: S/N: 23896-01	Dual Prod. ☐ Dual EFT ☐ Heater String ☐

Master Valves

Make: BARTON	Model:	Serial #: 29443-000-1
Size: 79.4 mm	Pressure Rating: 35.0 MPa	Trim: SOUR SERVICE (BTM VALVE)
Make: ABB VETCO	Model:	Serial #: 29442-000-1
Size: 79.4 mm	Pressure Rating: 35.0 MPa	Trim: SOUR SERVICE (UPPER VALVE)

Flow Tee	Size: 79.4 mm X 79.4 mm X 79.4 mm X 79.4 mm	35.0 MPa
	Lift Thread: mm	Thread Type:
Wing Valve	Make: BARTON	Model: Serial #: 24776-000-3
	Size: 79.4 mm	Pressure Rating: 35.0 MPa
Swab Valve	Make: BARTON	Model: Serial #: 24411-000-3
	Size: 79.4 mm	Pressure Rating: 35.0 MPa
Pumping	Ratigan: mm X mm MPa	
	Stuffing Box: mm X mm Type:	

Comments

2nd WING VALVE: BARTON S/N: 24016-00-3
BPV INSTALLED IN TUBING HANGER ON 99-02-28.

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/28
LOCATION:	300-I61-6050-12315-0	DAY #:	21
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2298.00 mKB	AFE \$:	1371000
PBTD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER NAHANNI	TUBING:	88.9 mm
FORMATION:		RIG:	CENALTA WELL SERVICE
		PERFORATIONS:	2085.0 to 2093.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: SETTING "PX" PLUG IN "X" NIPPLE.

PREVIOUS DAY OPERATION:	SITP:	0.0 kPa	SICP:	0.0 kPa	CODE	COMPANY	COST
1999.02.27@00:00 FLOWED BACK FRAC FLUID.					-	PAJAK	1500
FTP = 480 kPa, CHOKE = 17.46 mm.					-	CENALTA WELL	8000
WELL FLOWED BACK ANOTHER 4.55 m3 WATER AND					-R	BEAVER ENT	3800
THEN TUBING PRESSURE DROPPED TO TSTM. SHUT					-R	MUSTANG RENTALS	157
WELL IN FOR 45 MINUTES. TUBING PRESSURE CAME					-R	DESTINY RENTALS	102
UP TO 900 kPa. OPENED UP TBG AND RECOVERED					-R	DUNVEGAN RNTLS	334
1.3 m3 WATER. SHUT IN AGAIN FOR 45 MINUTES.					-R	NEW BEGINNING	185
TUBING BUILT UP TO 340 kPa. OPENED UP TBG.					-R	TEL/FAX/TELEX	150
NO FLUID RECOVERED. RIGGED UP TO SWAB.					-R	MCCLELLANDS	492
PULLED 6 SWABS. FLUID LEVEL WAS @ 254 m ON					-R	D.C ENERGY	390
1st SWAB AND KEPT DROPPING. LAST SWAB WAS					-	BEAVER ENT	2700
PULLED FROM "X" NIPPLE @ 2051.21 mKB.					-	BEMANFREE MED	400
TOTAL FLUID RECOVERED IN 6 SWABS = 3.8 m3.					-	NORWARD TESTERS	3744
TOTAL FLUID RECOVERED LAST 8 HOURS (FLOWED					-	S.O.S.	1380
AND SWABBED) = 9.65 m3. THE ONLY BURNABLE					-		
GAS NOTICED WAS ON THE 1st SWAB.					-	HUSKY TRANSPRT	4205
(08:00) SHIFT CHANGE.					-	COMPASS TRNSFER	3172
					-	BONNETS W/LINE	0
(08:00) HELD DAILY DISCUSSION AND SAFETY					-S	DOWNHOLE EQUIP	0
MEETING WITH ALL ONSITE PERSONNEL. FUNCTION					-		
TESTED ALL EMERGENCY AIR KILLS. CONTINUED					-		
TO SWAB WELL, PULLED AN ADDITIONAL 2 SWABS					-		
TO RECOVER .90 m3 FLUID. RIGGED DOWN ALL					-		
SWAB RELATED EQUIPMENT AND WORKING FLOOR.					-		
RIGGED DOWN TESTERS RELATED EQUIPMENT OFF OF					-		
WELLHEAD. REMOVED WELLHEAD ASSEMBLY.					-		
INSTALLED BOP STACK. PRESSURE TESTED PIPE					-		
RAMS AND RING GASKET TO 2 AND 21 MPa.					-		
RIGGED IN WORKING FLOOR AND ALL RELATED					-		
HANDLING EQUIPMENT. RIGGED DOWN/PUT AWAY ALL					-		
EQUIPMENT THAT IS NOT GOING TO BE USED.					-		
WAITED ON INHIBITOR AND WIRELINE TO ARRIVE.					-		
(20:00) SHIFT CHANGE.					-		
						DAILY COST:	30711
						PREVIOUS COST:	1114861
						CUMULATIVE COST:	1145572

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	80.00 m3	349.50 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/Swab	8.00 hrs	86.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	10.55 m3	93.86 m3	117.94 m3

FLUID VOLUMES	
TUBING	9.30 m3
ANNULUS	64.40 m3
CASING	81.70 m3

RIG HOURS	
DAILY	24.00
PREVIOUS	469.00
CUMULATIVE	493.00

WEATHER: CLEAR - 17* C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CO 06/07

MAR-01-1999 08:32

403 264 1584

96%

P.01

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/28
DAY #: 21

REMARKS

(20:00) HELD SAFETY MEETING WITH NIGHT CREWS. FINISHED RIGGING OUT NORWARD'S TESTING EQUIPMENT. HAULED IN FRESH WATER TO MIX WITH INHIBITOR. MIXED 1200 LITRES OF TRETOLITE CRW132F CORROSION INHIBITOR WITH 80.0m3 FRESH WATER. CONTINUED TO MIX INHIBITOR TO 24:00 HOURS 1999.02.27.

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/27
LOCATION:	300-161-6050-12315-0	DAY #:	20
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2298.00 mKB	AFE \$:	1371000
PBD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER NAHANNI	TUBING:	88.9 mm
FORMATION:		RIG:	CENALTA WELL SERVICE
		PERFORATIONS:	2085.0 to 2093.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: FLOWING BACK FRAC FLUID

PREVIOUS DAY OPERATION: SITP:	KPa	SICP:	KPa	CODE	COMPANY	COST
99.02.26@00:00 SITP:395kpa. HEATED WATER AND MONITORED TUBING PRESSURE.				-	PAJAK	1500
(07:00) MOVE IN NOWSCO'S FRAC EQUIPMENT, TSI AND SHOWER UNIT. REMOVED WELLHEAD CAP. INSTALL WELLHEAD ISOLATION TOOL.				-R	CENALTA WELL	4000
(08:00) SITP = 580 kpa. SHIFT CHANGE.				-R	BEAVER ENT	3800
				-R	MUSTANG RENTALS	157
				-R	DESTINY RENTALS	102
				-R	DUNVEGAN RNTLS	334
				-R	NEW BEGINNING	185
				-R	TEL/FAX/TELEX	150
				-R	McCLELLANDS	492
				-R	D.C ENERGY	390
				-	BEAVER ENT	300
				-	BEMANFREE MED	400
				-	NORWARD TESTERS	4774
				-	S.O.S.	1380
				-	NOWSCO WELL	88455
				-	TREE SAVERS	3595
				-	HUSKY TRANSPRT	0
				-	HUSKY TNK RNTLS	100
				-	COMPASS TRNSFER	0
				-	FIRE POWER	2010
				-	MOWHAWK PDCTS	2511
					DAILY COST:	114635
					PREVIOUS COST:	1000226
					CUMULATIVE COST:	1114861

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	0.00 m3	269.50 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/Swab	9.50 hrs	78.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	43.51 m3	83.31 m3	128.49 m3

FLUID VOLUMES	
TUBING	9.30 m3
ANNULUS	64.40 m3
CASING	81.70 m3

RIG HOURS	
DAILY	24.00
PREVIOUS	445.00
CUMULATIVE	469.00

WEATHER: OVERCAST -9* C

ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/27
DAY #: 20

REMARKS

5.0 m3 STAGES FOR A PLACEMENT OF 45.40 m3 FLUID FOLLOWED BY 10.0 m3
CROSSLINKED GELLED H2O (REPRESENTS .50 m3 O/FLUSH), STOP PUMPS @ 11:40 hrs.
ISIP - 48.7 MPa, 15 min - 41.5 MPa. * FLUID USED FOR TREATMENT = 77.4 m3 *
LET WELL SIT AN ADDITIONAL 1 hr TO ALLOW THE PRESSURE TO DECREASE TO
CREATE A SAFER WORK AREA BUT IT ONLY BLED DOWN TO 36.5 MPa. RIGGED IN AN
ADDITIONAL HAMER VALVE IN NOWSCO SURFACE LINE, OPENED WELL BACK TO THE RIG
TANK TO PUT WELLHEAD PRESSURE @ 31.5 MPa. SECURED WELLHEAD, RIGGED DOWN
TREE SAVERS ISOLATION TOOL AND ALL NOWSCO RELATED EQUIPMENT - RELEASED.
OPENED WELL BACK TO TESTERS FACILITY @ 14:30 hrs ON A 3.17 mm CHOKE TO
GET WELL FLOWING BACK @ A TARGET RATE OF 2.0 - 3.0 m3/hr.
INCREASED CHOKE SIZE TO 6.35 mm TO MAINTAIN RATE OF 3.0 m3/hr, PRESSURE @
18:00 hrs = 19.8 MPa, PRESSURE @ 18:20 hrs = 11.7 MPa (8.1 MPa DECREASE IN
20 minutes). CONTINUED TO FLOW WELL, FTP @ 20:00 hrs = 6.7 MPa.
FLUID RECOVERED DURING TOUR = 20.0 m3.

(20:00) SHIFT CHANGE.

(20:00) HELD SAFETY MEETING W/ NIGHT CREWS. FUNCTIONED TESTED H2S ALARMS.
CONTINUE FLOWING WELL BACK THROUGH TESTERS. SALINITY = TOO HIGH TO MEASURE.
FTP = 6750 kpa, CHOKE = 6.35 mm, PH = 4, RECOVERED 3.0 m3 FLUID LAST HOUR.
FLOWING TUBING PRESSURE IS SLOWLY DROPPING. INCREASING CHOKE AS FTP DROPS.

(24:00) FTP = 480 kpa, CHOKE = 17.46 mm, PH = 4, SALINITY = 278000 ppm.
RECOVERY RATE = 2.4 m3 FLUID LAST HOUR. NO BURNABLE GAS AS YET.
CONTINUED FLOWING WELL BACK TO 24:00 HOURS 1999.02.26.
TOTAL HOURS FLOWED SINCE FRAC = 9.5.
TOTAL CUMM FLUID FLOWED SINCE FRAC = 33.89 m3.
TOTAL FLUID LEFT TO RECOVER FROM FRAC = 43.51 m3.



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/26
LOCATION:	300-I61-6050-12315-0	DAY #:	19
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2298.00 mKB	AFE \$:	1371000
PBTD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER NAHANNI	TUBING:	88.9 mm
FORMATION:		RIG:	CENALTA WELL SERVICE
		PERFORATIONS:	2085.0 to 2093.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: WELL SHUT IN. TAKING BUILD UPS. WAITING FOR FRAC EQUIPMENT.

PREVIOUS DAY OPERATION: SITP:	KPa	SICP:	KPa	CODE	COMPANY	COST
1999.02.25 @ 00:00 HOURS:				-	PAJAK	1500
SITP: 700 kPa. TUBING IS SHUT IN TO MONITOR BUILD UPS. WAITING FOR FRAC EQUIPMENT.				-	CENALTA WELL	4000
08:00 HOURS: SITP: 945 kPa. SHIFT CHANGE.				-R	BEAVER ENT	3800
08:00 HOURS:				-R	MUSTANG RENTALS	157
HELD DAILY DISCUSSION AND SAFETY MEETING WITH ALL ONSITE PERSONNEL. CONTINUED TO MONITOR PRESSURE BUILD UP. PRESSURE WENT FROM 945 kPa @ 08:00 HOURS TO 1035 kPa @ 11:00 HOURS. OPENED WELL BACK TO TESTERS TO OBTAIN GAS SAMPLES FOR ANALYSIS. (SAMPLES WERE TAKEN AT HALFWAY POINT OF BLEED OFF AND AT TAIL END OF BLEED OFF, THERE WAS A SMALL AMOUNT OF BURNABLE GAS IN BLEED OFF, H2S CONCENTRATION WAS 220-350 ppm). LEFT WELL OPEN TO VENT TO TESTERS FACILITY TO ALLOW ANY FLUID TO INFLUX FROM THE PERFORATIONS SO A LIQUID SAMPLE COULD BE TAKEN IN THE SWABS TO COME. PULLED 1 SWAB FROM "X" NIPPLE @ 2051.21mKB. NO FLUID RETURNS AT TEST EQUIPMENT. CAUGHT SAMPLE AT SWAB TEE. SHUT WELL BACK IN. HAUL IN AND SET UP 2-63m3 TANKS. HAUL IN AND UNLOAD 32m3 28% HCL ACID. HAUL IN 52m3 WATER. RUN STEAM THROUGH THE HEATING COIL TO HEAT THE WATER OVERNIGHT, FOR FRAC IN THE MORNING. RIGGED OUT SWABBING EQUIPMENT. RIGGED OUT STAIRS AND FLOOR. UNBOLTED TESTERS ESD VALVE FROM WING VALVE. ABB VETCO GRAY SERVICE TRUCK CAME OUT AND REPLACED BOTH FAULTY WING VALVES WITH NEW BARTON VALVES. BOLTED ESD VALVE BACK ON.				-R	DESTINY RENTALS	102
20:00 HOURS: SHIFT CHANGE.				-R	DUNVEGAN RNTLS	334
				-R	NEW BEGINNING	185
				-R	TEL/FAX/TELEX	150
				-R	McCLELLANDS	492
				-R	D.C ENERGY	390
				-	BEAVER ENT	2355
				-	BEMANFREE MED	400
				-	NORWARD TESTERS	3774
				-	S.O.S.	830
				-	NOWSCO WELL	0
				-	TREE SAVERS	1450
				-	HUSKY TRANSPRT	4205
				-	HUSKY TNK RNTLS	100
				-	COMPASS TRNSFER	7740
				-	FIRE POWER	1650
					DAILY COST:	33614
					PREVIOUS COST:	966612
					CUMULATIVE COST:	1000226

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	60.00 m3	245.50 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/Swab	hrs	68.50 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	m3	39.80 m3	94.60 m3

FLUID VOLUMES	
TUBING	9.30 m3
ANNULUS	64.40 m3
CASING	81.70 m3

RIG HOURS	
DAILY	24.00
PREVIOUS	421.00
CUMULATIVE	445.00

WEATHER: OVERCAST -8 C

ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/26
DAY #: 19

REMARKS

20:00 HOURS:

HELD SAFETY MEETING WITH NIGHT CREWS. RIGGED IN PUMP LINES AND PRESSURE TESTED WING VALVE CONNECTIONS AND ESD CONNECTIONS TO 5.0 MPa LOW AND 24.0 MPa HIGH. GOOD SOLID TEST. FUNCTION TESTED ESD VALVE. PRESSURE TESTED ESD VALVE TO 24.0 MPa. HELD SOLID.
SITP: 395 kPa. CONTINUED TO TAKE BUILD UP TO 24:00 HOURS 1999.02.26.

CD 00/97

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/25
LOCATION:	300-161-6050-12315-0	DAY #:	18
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2298.00 mKB	AFE \$:	1371000
PBYD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER NAHANNI	TUBING:	88.9 mm
FORMATION:		RIG:	CENALTA WELL SERVICE
		PERFORATIONS:	2085.0 to 2093.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: WELL SHUT IN. TAKING BUILD UPS. WAITING FOR FRAC EQUIPMENT.

PREVIOUS DAY OPERATION: SITP: 700.0 kPa SICP: KPa	CODE	COMPANY	COST
1999.02.24 @ 00:00 HOURS:	-	PAJAK	1500
SITP: 250 kPa. WELL SHUT IN. MONITORED	-	CENALTA WELL	4000
TUBING PRESSURE BUILD UP. 06:00 HOURS:	-R	BEAVER ENT	3800
SITP: 1080 kPa. (6 HOUR 15 MINUTE BUILD UP).	-R	MUSTANG RENTALS	157
bled off tubing pressure through testers	-R	DESTINY RENTALS	102
EQUIPMENT. NO BURNABLE GAS REACHED THE FLARE	-R	DUNVEGAN RNTLS	334
STACK. H2S READING AT TAIL END OF BLEED OFF	-R	NEW BEGINNING	185
WAS 350 ppm. RIGGED UP TO SWAB. PULLED 2	-R	TEL/FAX/TELEX	150
SWABS FROM "X" NIPPLE AT 2051.21mKB.	-R	McCLELLANDS	492
FIRST SWAB: RECOVERED 0.05m3 WATER.	-R	D.C ENERGY	390
SECOND SWAB: NO FLUID RECOVERED.	-	BEAVER ENT	0
08:00 HOURS: SHIFT CHANGE.	-	BEMANFREE MED	400
08:00 HOURS: HELD DAILY DISCUSSION AND	-	NORWARD TESTERS	3774
SAFETY MEETING WITH ALL ONSITE PERSONNEL.	-	S.O.S.	830
FUNCTION TESTED ALL EMERGENCY AIR KILLS.	-	NOWSCO WELL	30490
PULLED AN ADDITIONAL 3 SWABS FROM THE "X"	-	TREE SAVERS	1450
NIPPLE AT 2051.21mKB, NO FLUID RECOVERED.	-S	ICG PROPANE	982
WELL NOT SHOWING SIGNS OF INFLUX FROM PERFS.	-		
CLOSED AND SECURED WELLHEAD AT 12:00 HOURS.	-		
(TRY AND ESTABLISH A BUILD UP TO RECOVER GAS	-		
AND H2O SAMPLE FOR ANALYSIS).	-		
SITP @ 17:00 HRS - 390 kPa.	-		
SITP @ 18:00 HRS - 440 kPa.	-		
SITP @ 19:00 HRS - 495 kPa.	-		
SITP @ 20:00 HRS - 540 kPa.	-		
20:00 HOURS: SHIFT CHANGE.	-		
20:00 HOURS:	-		
HELD SAFETY MEETING WITH NIGHT CREWS.	-		
WELL SHUT IN, TAKING BUILD UPS.	-		
SITP @ 22:00 HRS-620 kPa. 24:00 HRS-700 kPa	-		
12 HOUR PRESSURE BUILD UP ON TUBING: 700 kPa		DAILY COST:	49036
CONTINUE TO TAKE BUILD UP TO 24:00 HOURS		PREVIOUS COST:	917576
1999.02.24.		CUMULATIVE COST:	966612

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	m3	185.50 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Swab	hrs	68.50 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	m3	0.00 m3	0.00 m3
WATER BASED	0.05 m3	39.80 m3	94.60 m3

FLUID VOLUMES	
TUBING	9.30 m3
ANNULUS	64.40 m3
CASING	81.70 m3

RIG HOURS	
DAILY	24.00
PREVIOUS	397.00
CUMULATIVE	421.00

WEATHER: SNOWING -10 C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CO 06/97

FEB-25-1999 07:50

403 264 1584

96%

P.01

SWAB REPORT

Wellname: CON FOREST ET AL FLETT RAPIDS I-61

Location: 300-161-6050-12315-0

Page: 1 of 1

Date: 99/02/24

Formation: UPPER NAHANNI

Perforations:	2085.00	to	2093.00	mKB	to	mKB	to	mKB
		to		mKB	to	mKB	to	mKB

Formation:

Perforations:	to	mKB	to	mKB	to	mKB
	to	mKB	to	mKB	to	mKB

Load Fluid Type: 3% KCL H2O.

Tank Coefficient: 0.0047

[illegible]

	WATER	OIL	OTHER	TOTAL
LOAD FLUID TO RECOVER	9.60 m3	0.00 m3	0.00 m3	9.60 m3
PREVIOUS TOTAL RECOVERED	12.20 m3	0.00 m3	0.00 m3	12.20 m3
THIS REPORT RECOVERED	0.05 m3	0.00 m3	0.00 m3	0.05 m3
TOTAL TEST RECOVERED	12.25 m3	0.00 m3	0.00 m3	12.25 m3
LOAD FLUID LEFT TO RECOVER	0.00 m3	0.00 m3	0.00 m3	

SUPERVISOR:	B. WEISHAAR
PHONE #:	(600) 700-2629
CALLING CARD #:	

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/24
LOCATION:	300-I61-6050-12315-0	DAY #:	17
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2298.00 mKB	AFE \$:	1371000
PBTD:	2640.50 mKB	TUBING:	88.9 mm
FORMATION:	UPPER NAHANNI	RIG:	CENALTA WELL SERVICE
FORMATION:		PERFORATIONS:	2085.0 to 2093.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: SWABBING WELL TO EVALUATE CO2 SQUEEZE

PREVIOUS DAY OPERATION: SITP: 250.0 kPa SICP: 0.0 kPa	CODE	COMPANY	COST
1999.02.23 @ 00:00 HOURS:	-	PAJAK	1500
CONTINUED TO SWAB AND EVALUATE NEW	-	CENALTA WELL	8000
PERFORATIONS. PULLED 2 SWABS FROM "X" NIPPLE	-R	BEAVER ENT	3800
@ 2051.21mKB. RECOVERED 0.4m3 WATER. pH = 6.	-R	MUSTANG RENTALS	157
SALINITY = 108,000 AND 117,000 ppm. SHUT	-R	DESTINY RENTALS	102
TUBING IN FOR 2 HOURS (01:00-03:00 HOURS).	-R	DUNVEGAN RNTLS	334
THE PRESSURE BUILT UP TO 140 kPa. PULLED 3	-R	NEW BEGINNING	185
MORE SWABS FROM THE "X" NIPPLE. SWABS WERE	-R	TEL/FAX/TELEX	150
SPACED 2 HOURS APART. FLUID REC = NIL. SMALL	-R	MCCLELLANDS	492
AMOUNT OF GAS. 60 TO 198 ppm H2S.	-R	D.C ENERGY	390
08:00 HOURS: TUBING ON SLIGHT VACUUM.	-	BEAVER ENT	675
SHIFT CHANGE.	-	BEMANFREE MED	400
08:00 HOURS:	-	NORWARD TESTERS	4774
HELD DAILY DISCUSSION AND SAFETY MEETING	-	S.O.S.	1380
WITH ALL ONSITE PERSONNEL. CONTINUED TO SWAB	-	NOWSCO WELL	20000
WELL, PULLED A TOTAL OF 3 SWABS TO RECOVER	-	TREE SAVERS	4595
0.05m3 FLUID (pH = 6, SALINITY = 102,000-	-		
110,000 ppm). CLOSED AND SECURED WELLHEAD.	-		
RIGGED DOWN ALL RELATED SWABBING EQUIPMENT	-		
AND WORKING FLOOR. RIGGED IN TREE SAVERS	-		
WELLHEAD ISOLATION TOOL AND NOWSCO T.P.	-		
PUMPER TO REGULATIONS. HELD PRE-JOB	-		
DISCUSSION. APPLIED 14 MPa PRESSURE TO	-		
ANNULUS. SITP: 7 kPa. PRESSURE TESTED	-		
SURFACE LINE TO 50 MPa, GOOD SOLID TEST.	-		
OPENED TUBING, FILLED HOLW WITH 3.0m3 LIQUID	-		
CO2 = 1631m3 GAS. CONTINUED TO PUMP CO2 @	-		
0.70m3/MINUTE AT 10 MPa, PRESSURE INCREASED	-		
TO 45 MPa AND THE RATE DROPPED TO 0.20m3/	-		
MINUTE FOR THE REMAINDER OF THE JOB. STOPPED	-		
PUMP @ 14:00 HOURS. ISIP: 42 MPa, 15 MINUTES		DAILY COST:	46934
38 MPa. RIGGED DOWN NOWSCO RELATED EQUIPMENT		PREVIOUS COST:	870642
TREE SAVERS TO REMAIN ON WELLHEAD UNTIL		CUMULATIVE COST:	917576

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	0.00 m3	185.50 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/Swab	14.00 hrs	68.50 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	0.75 m3	39.75 m3	94.65 m3

FLUID VOLUMES		
TUBING	9.30	m3
ANNULUS	64.40	m3
CASING	81.70	m3

BIG HOURS	
DAILY	24.00
PREVIOUS	373.00
CUMULATIVE	397.00

WEATHER: OVERCAST - 6*
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/24
DAY #: 17

REMARKS

PRESSURE DECREASE. SITP AFTER 2 HOURS, 45 MINUTES WAS AT 33 MPa. OPENED TUBING UP TO ATMOSPHERE TO LOWER PRESSURE TO 28 MPa (SAFER WORKING PRESSURE) RIGGED DOWN TREE SAVERS WELLHEAD ISOLATION TOOL. REINSTALLED TOP PORTION OF WELLHEAD ASSEMBLY. OPENED WELL BACK TO TESTERS ON 6.3mm CHOKE TO BLOW DOWN THE WELL TRYING TO MAINTAIN A CONTROLLED RATE. PRESSURE DROPPED FROM 29 MPa @ 17:00 HOURS TO 6.5 MPa @ 19:30 HOURS (2.5 HOURS). ADJUSTED CHOKE SIZE TO 11.1mm TO INCREASE VOLUME AND POSSIBLE INFLUX FROM FORMATION.

20:00 HOURS: SHIFT CHANGE.

20:00 HOURS:

HELD SAFETY MEETING WITH NIGHT CREWS. CONTINUED TO FLOW BACK CO2.

FTP: 5580 kPa. CHOKE: 11.11mm. FLOW RATE: 77.56 10 3m3.

FTP AND GAS RATE IS DROPPING. NO SIGNS OF BURNABLE GAS.

22:00 HOURS:

FTP: 8 kPa. CHOKE: 50.8mm. FLOW RATE: TSTM.

NO SIGNS OF BURNABLE GAS WHILE FLOWING BACK CO2.

NO FLUID RECOVERED.

TOTAL CO2 PUMPED: 16.6m3 LIQUID (9025.42m3 GAS).

TOTAL CO2 FLOWED BACK: 8.97 10 3m3.

RIGGED IN SWABBING EQUIPMENT. PULLED SWABS FROM "X" NIPPLE @ 2051.21mKB.

1ST SWAB: RECOVERED 0.30m3 WATER. pH = 6. SAL. = 120,000 ppm. H2S = 70 ppm.

2ND SWAB WAS DRY. (RAN TANDEM SWAB CUPS). (SEE SWAB REPORT)

SHUT WELL IN. MONITORING TUBING PRESSURE BUILD UPS.

TOTAL FLUID SWABBED BACK LAST 24 HOURS: 0.75m3 WATER.

SITP: 250 kPa. WELL SHUT IN TO 24:00 HOURS 1999.02.23.

SWAB REPORT

Wellname: CDN FOREST ET AL FLETT RAPIDS I-61

Location: 300-161-6050-12315-0

Page: 1 of 1

Date: 99/02/23

Formation: UPPER NAHANNE

Perforations:	2085.00	to	2093.00	mKB	to	mKB	to	mKB
		to	mKB	to	mKB	to	mKB	

Formation:

Perforations:	to	mKB	to	mKB	to	mKB
	to	mKB	to	mKB	to	mKB

Load Fluid Type: 3% KCL H2O.

Tank Coefficient: 0.0047

[illegible]

	WATER	OIL	OTHER	TOTAL
LOAD FLUID TO RECOVER	9.60 m3	0.00 m3	0.00 m3	9.60 m3
PREVIOUS TOTAL RECOVERED	11.45 m3	0.00 m3	0.00 m3	11.45 m3
THIS REPORT RECOVERED	0.75 m3	0.00 m3	0.00 m3	0.75 m3
TOTAL TEST RECOVERED	12.20 m3	0.00 m3	0.00 m3	12.20 m3
LOAD FLUID LEFT TO RECOVER	0.00 m3	0.00 m3	0.00 m3	

SUPERVISOR:	B. WEISHAAR
PHONE #:	(600) 700-2629
CALLING CARD #:	

P.04

Field Notes



Rev	Date	Clk Tim	Tbg Pres	Csg Pres	Wht	Choke	OffT	StabC1	OffT	Temp1	Gas Rate1	Cum Gas1	Flid Gain	BSWT	H2O Gain	H2O Rate	Cum H2O	OS Gain	Oil Rate	Cum OS	pH	SALINITY
	yy/mm/dd	clock	kPa	kPa	C	mm	mm	kPa	kPa	C	10 ⁻³ m3/d	10 ⁻³ m3	m3	%	m3	m3/d	m3	m3	m3/d	m3		ppm
40	1998/02/23	09:00:00	Tbg. on vacuum.																			
40		09:28:00	Swab #9 From 2050m and no fluid recovery.																			
410		09:30:00		3900		59.80															6	192000
411				3900																		
412	1999/02/23	10:00:00		3900																		
413		10:30:00		3900																		
414		10:30:00	Tbg. on vacuum.																			
415		10:50:00	Swab #7 From 2050 and no fluid level.																			
416		10:59:00		3900		50.80							0.05	100	0.05	0.21	41.45	0.0	0.00	0.00	6	110000
417		11:00:00	Swab pulled, fluid recovered 0.45m3.																			
418		11:00:00	Rig-out swab lubricator.																			
419		12:00:00	Rig-up T.S.I.																			
420		13:00:00	Safety meeting.																			
421		13:10:00	Pressure test tree saver to 50 mpa.																			
422		13:16:00	Start pumping CO2 at 18 mpa.																			
423		13:43:00	Pumping at 0.2m3/min at 43mpa.																			
424		14:30:00	Finished pumping CO2, rig-out pumper.																			
425		15:00:00		38200	16800																	
426		15:45:00		32000	16800																	
427		16:00:00		32000	18400																	
428		16:16:00		32000	18350																	
429		16:15:00	Bleed down tubing to 30,000kpa.																			
430		16:20:00	Rig-off Tree-saver.																			
431		17:00:00	Open wing-valve and pressure up to choke.																			
432		17:00:00	Recon S.I.T.P.																			
433		17:00:00		28200	16200		0.00	0	0	0	0.000	0.000	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
434		17:00:00	Open choke to flow on a 12.70mm.																			
435		17:05:00		21100	16200		0	12.70														
436		17:10:00		19000	16200		0	12.70														
437		17:12:00	Dri-flow meter in service with a 89.85mm. orifice plate.																			
438		17:15:00		16900	16200		0	12.70	89.85	380	31	0	143.192	1.492								
439		17:24:00	Rock-choke (suspect plugging).																			
440		17:30:00		11150	16900		0	12.70	89.85	150	19	0	78.570	2.647								
441		17:38:00	Rock-choke and zero dri-flow meter. (suspect plugging).																			
442		17:45:00		9320	16900		0	12.70	89.85	135	15	10	95.862	3.405								
443		17:53:00	Dri-flow meter out of service to change orifice plate.																			
444		17:58:00	Dri-flow meter back in service with a 47.63mm orifice plate.																			

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004/006

FEB-24-1999 08:09

403 264 1584

76%

P.05

Job Number: G.P. - 99 - 21
 Customer: CANADIAN FOREST OIL
 Wellname: I- 61
 Well Location: I- 61
 Formation:

FieldNotes



Row	Date	Chk Tim	Tbg Pres	Csg Pres	Wht	Choke	Orfi	Static1	DIFI	Temp1	Gas Rate1	Cum Gas1	Flid Gain	BSWI	H2O Gain	H2O Rate	Cum H2O	Oil Gain	Oil Rate	Cum Oil	pH	SALINITY
		clock	kPa	kPa	C	mm	mm	kPa	kPa	C	10 ⁴ m3/d	10 ⁴ m3	m3	%	m3	m3/d	m3	m3	m3/d	m3		ppm
445	1999/02/23	18:00:00	8380	16800	8	6.35	47.63	50	37	10	36.118	3.941	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
446		18:00:00	No trace of fluid to surface.																			
447		18:15:00	7940	16800	7																	
448		18:18:00	Bleed off casing.																			
449		18:30:00	7520	0	8	6.35	47.63	20	23	14	25.050	4.578	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
450		18:45:00	7120	0	8																	
451		18:53:00	Rock choke.																			
452		19:00:00	6930	0	9	6.35	47.63	10	14	15	18.282	5.030	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
453		19:00:00	No signs of burnable gas.																			
454	1999/02/23	19:15:00	6720	0	10																	
455		19:30:00	6530	0	10	6.35	47.63	8	12	16	16.758	5.395	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
456		19:35:00	Increase choke to 11.11mm.																			
457		19:45:00	5830	0	11																	
458		20:00:00	5590	0	11	11.11	47.63	550	43	34	77.658	6.377	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
459		20:15:00	5080	0	11																	
460		20:15:00	Meter out of service, change orifice plate to 53.98mm.																			
461		20:20:00	Meter in service.																			
462		20:30:00	4800	0	13	11.11	53.98	130	41	27	58.822	7.777	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
463	1999/02/23	20:45:00	3120	0	12																	
464		20:55:00	Increase choke to 50.8mm.																			
465		21:00:00	720	300	10	50.80	53.98	230	28	25	57.947	8.970	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
466		21:00:00	No signs of burnable gas.																			
467		21:15:00	100	550	10																	
468		21:20:00	Meter out of service, gas rate 1stn.																			
469		21:30:00	50	700				0.00	0	0	0.000	8.970	0.00	0	0.00	0.00	41.45	0.0	0.00	0.00		
470		21:45:00	15	700																		
471	1999/02/23	22:00:00	8	700																		
472		22:00:00	Rig up to swab.																			
473		22:15:00	2	700																		
474		22:45:00	Swab #8 fluid at 1882m and pull from 2050m.																			
475		22:45:00	80	700		50.80							0.30	100	0.30	5.78	41.75	0.0	0.00	0.00	8	120000
476		23:00:00	140	700																		
477		23:45:00	Swab #9 no fluid recovered and pull from 2050m.																			
478		23:45:00	100	700		50.80							0.00	0	0.00	0.00	41.75	0.0	0.00	0.00		
479		23:45:00	H2S = 70ppm.																			
480	1999/02/24	08:08:00	280	700																		
481		08:08:00	Total cum fluid to date = 41.75 m3.																			

FEB-24-1999 08:10

403 264 1584

75%

P.06

Job Number: G.P - 98 - 21
 Customer: CANADIAN FOREST OIL
 Wellname: I-81
 Well Location: I-81
 Formation:

FieldNotes



Row	Date	Clk Tm	Tbg Pres	Csg Pres	Wht	Choke	Orif	Static	DIW1	Temp1	Gas Rate1	Cum Gas1	Fid Gain	BSWI	H2O Gain	H2O Rate	Cum H2O	Oil Gain	Oil Rate	Cum Oil	pH	SALINITY
	yy/mm/dd	clock	kPa	kPa	C	mm	mm	kPa	kPa	C	10 ⁻³ m3/d	10 ⁻³ m3	m3	%	m3	m3/d	m3	m3	m3/d	m3		ppm
482	1999/02/24	00:00:00	Total cum fluid last 24 hrs = 0.75m3																			
483		00:00:00	Total cum burnable gas = 0.0 10 ⁻³ m3																			
484		00:00:00	Total cum CO2 to date = 8.97 10 ⁻³ m3																			
485		00:30:00	430	700			0.00															
486		01:00:00	540	700																		
487		01:30:00	620	700																		
488	1999/02/24	02:00:00	700	650																		
489		02:30:00	785	600																		
490		03:00:00	820	500																		
491		03:30:00	880	500																		
492		04:00:00	825	500																		
493		04:30:00	990	500																		
494		05:00:00	1000	400																		
495		05:30:00	1050	400																		
496	1999/02/24	06:00:00	1080	300																		
497		06:00:00	Bleed off well and rig upto swab.																			

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/23
LOCATION:	300-161-6050-12315-0	DAY #:	16
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2298.00 mKB	AFE \$:	1371000
PBTD:	2640.50 mKB	RIG:	CENALTA WELL SERVICE
FORMATION:	UPPER NAHANNI	PERFORATIONS:	2085.0 to 2093.0 mKB
FORMATION:		PERFORATIONS:	to mKB

PRESENT OPERATION: SWABBING WELL TO EVALUATE NEW PERFORATIONS

PREVIOUS DAY OPERATION: SITP: 40.0 kPa SICP: 0.0 kPa	CODE	COMPANY	COST
1999.02.22 @ 00:00 HOURS:	-	PAJAK	1500
PULLED SWABS WHILE WAITING FOR PERFORATORS.	-	CENALTA WELL	8000
PULLED ANOTHER 6 SWABS. RECOVERED 1.35m3	-R	BEAVER ENT	3800
WATER. pH=6, SALINITY=102,000-104,000 PPM.	-R	MUSTANG RENTALS	157
GASSES DURING SWABS. PULLING FROM "X" NIPPLE	-R	DESTINY RENTALS	102
08:00 HOURS: SHIFT CHANGE.	-R	DUNVEGAN RNTLS	334
08:00 HOURS:	-R	NEW BEGINNING	185
HELD DAILY DISCUSSION AND SAFETY MEETING	-R	TEL/FAX/TELEX	150
WITH ALL ONSITE PERSONNEL. FUNCTION TESTED	-R	MCCLELLANDS	492
ALL EMERGENCY AIR KILLS. CONTINUED TO SWAB	-R	D.C ENERGY	390
WELL WHILE WAITING ON SCHLUMBERGER WIRELINE	-	BEAVER ENT	0
UNIT. PULLED AN ADDITIONAL 4 SWABS FROM "X"	-	BEMANFREE MED	400
PROFILE @ 2051.21mKB, RECOVERED AN	-	NORWARD TESTERS	4774
ADDITIONAL 1.85m3 FLUID FOR A TOTAL OF	-	S.O.S.	1380
11.05m3 FLUID (REFER TO SWAB REPORT).	-	NOWSCO WELL	25902
(WE WERE GETTING A SMALL AMOUNT OF GAS AFTER	-	SPLASH & DORE'	845
SWABS AND THE TUBING WAS STARTING TO BLOW	-	HUSKY TNSPRT	5562
SLIGHTLY INSTEAD OF GOING ON VACUUM, 1 HOUR	-	SCHLUMBERGER	17305
SITP-40 kPa, pH-6, SALINITY OF FLUID-103,000	-		
-114,000 PPM. RIGGED DOWN SWAB EQUIPMENT.	-		
RIGGED IN SCHLUMBERGER WIRELINE RELATED	-		
EQUIPMENT TO REGULATIONS. HELD PRE-JOB	-		
DISCUSSION. MADE UP AND RAN IN HOLE WITH PDC	-		
LOGGING TOOL TO LOCATE "X" NIPPLE ABOVE	-		
PACKER @ 2051.21mKB AND THE EXISTING	-		
PERFORATIONS @ 2087.00-2091.00mKB	-		
CORRELATING TO COMPUTALOG SECTOR BOND LOG	-		
DATED 99.02.11. HOISTED THE PDC LOGGING	-		
TOOL. MADE UP AND RAN IN HOLE WITH 54.0mm OD	-		
ENERJET STRIP GUN COMPLETE WITH 14 GRAM	-		
SUPER "DP' CHARGES, 20 SPM AND 45 DEGREE	-		
PHASING (WILL GIVE 23.0" PENETRATION, .30"	-		
ENTRANCE HOLE, HEAVIEST CHARGE AVAILABLE IN	-		
		DAILY COST:	71278
		PREVIOUS COST:	799364
		CUMULATIVE COST:	870642

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	10.50 m3	185.50 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/Swab	12.50 hrs	54.50 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	3.60 m3	39.00 m3	95.40 m3

FLUID VOLUMES	
TUBING	9.30 m3
ANNULUS	64.40 m3
CASING	81.70 m3

RIG HOURS	
DAILY	24.00
PREVIOUS	349.00
CUMULATIVE	373.00

WEATHER: CLOUDY - 5 C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 05/97

FEB-23-1999 07:51

403 264 1584

97%

P.01



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/23
DAY #: 16

REMARKS

S/GUN) TO PERFORATE THE UPPER NAHANNI DOLOMITE FROM: 2085.0-2093.0mKB.
RUN #1: 2085.00-2089.80mKB: LOGGED GUN INTO PLACE, WENT TO FIRE GUN, NO
RESPONSE (MISRUN). HOISTED PERFORATING GUN. VISUAL INSPECTION OF PERF GUN
INDICATED THAT IT WAS A FAULTY FIRING CAP. REPAIRED, RAN IN HOLE WITH SAME
TO PERFORATE SAME.
RUN #2: 2085.00-2089.80mKB: LOGGED GUN INTO PLACE, FIRED GUN, GOOD
RESPONSE. HOISTED GUN, ALL 96 SHOTS FIRED (2.80m OVERLAP ON EXISTING) MADE
UP AND RAN IN HOLE WITH SECOND GUN TO PERFORATE THE UPPER NAHANNI DOLOMITE
WITH SAME GUN CONFIGURATION AS PREVIOUS RUN.
RUN #3: 2089.00-2093.00mKB: LOGGED GUN INTO PLACE, FIRED GUN, GOOD
RESPONSE. HOISTED GUN, ALL 80 SHOTS FIRED (.80m OVERLAP ON EXISTING),
TOTAL INTERVAL SHOT = 2085.00-2093.00mKB, TOTAL NUMBER OF SHOTS = 176.
20:00 HOURS: SHIFT CHANGE.
20:00 HOURS:
HELD SAFETY MEETING WITH NIGHT CREW. RIGGED OUT SCHLUMBERGER EWL. U.
NO CHANGE IN WELLHEAD PRESSURES AFTER PERFORATING. PERFORATING DEPTHS WERE
CORRELATED TO SCHLUMBERGER PDC LOG DATED 99.02.22. RIGGED UP TO SWAB.
SITP = 40 kPa. PULLED 2 SWABS FROM NIPPLE @ 2051mKB. RECOVERED 0.40m3 WATER
pH = 6, SALINITY = 114,000 AND 110,000 PPM. H2S READING = 175 PPM.
TOTAL SWABS PULLED LAST 24 HOURS = 12.
TOTAL FLUID SWABBED OUT LAST 24 HOURS = 3.6m3 WATER.
TOTAL FLUID SWABBED OUT SINCE "EDTA" TREATMENT = 11.45m3 WATER.
SEE SWAB REPORT.
CONTINUED TO PULL SWABS TO 24:00 HOURS 1999.02.22.

CD 96/97

SWAB REPORT

Wellname: CON FOREST ET AL FLETT RAPIDS 1-61

Location: 300-161-6050-12315-0

Page: 1 of 1

Date: 99/02/22

Formation: UPPER NAHANNI

Perforations: 2085.00 to 2093.00 mKB
to mKBto mKB
to mKBto mKB
to mKB

Formation:

Perforations: to mKB
to mKBto mKB
to mKBto mKB
to mKB

Load Fluid Type: 3% KCL H2O.

Tank Coefficient: 0.0047

NO.	TIME	FLUID LEVEL m	SWAB DEPTH m	TANK GAIN cm	FLUID		OTHER %	WATER CUT %	WATER		OIL		TUBING PRESS. LPa	CASING PRESS. LPa	REMARKS
					THIS RUN m3	TEST CUM. m3			THIS RUN m3	TEST CUM. m3	THIS RUN m3	TEST CUM. m3			
1	02:05	1973	2033	53.0	0.25	8.10		100.0	0.25	8.10		0.00	0	6300	PH = 6, SALINITY = 102,000 ppm.
2	04:10	1973	2033	74.0	0.35	8.45		100.0	0.35	8.45			0	5750	PH = 6, SAL. = 104,000 ppm.
3	04:30	1973	2033	32.0	0.15	8.60		100.0	0.15	8.60			0	5900	PH = 6, SAL. = 103,000 ppm. SMALL AMOUNT OF GAS PRESENT IN ALL SWABS.
4	06:10	1983	2033	53.0	0.25	8.85		100.0	0.25	8.85			0	5600	PH = 6, SAL. = 102,000 ppm. FLUID WAS A BROWNISH COLOR - SAMPLE TAKEN.
5	06:30	1983	2033	63.0	0.30	9.15		100.0	0.30	9.15			0	5600	PH = 6, SAL. = 102,000 ppm.
6	06:45	1983	2033	10.0	0.05	9.20		100.0	0.05	9.20			0	5600	PH = 6, SAL. = 103,000 ppm. Rec 1.35 m3 in last 6 swabs. Gasses during swab.
7	09:15	1960	2050	85.0	0.40	9.60	0.0	100.0	0.40	9.60			0	7400	PH = 6, SALINITY = 103,000 ppm, SMALL AMOUNT OF GAS AFTER SWAB.
8	10:15	1930	2050	106.0	0.50	10.10	0.0	100.0	0.50	10.10			0	5600	PH = 6, SALINITY = 112,000 ppm, SMALL AMOUNT OF GAS AFTER SWAB.
9	11:15	1930	2050	106.0	0.50	10.60	0.0	100.0	0.50	10.60			0	5700	PH = 6, SALINITY = 104,000 ppm, SMALL AMOUNT OF GAS AFTER SWAB.
10	12:45	1960	2050	95.0	0.45	11.05	0.0	100.0	0.45	11.05			40	5600	SITP PRIOR TO SWAB @ 40 kpa, PH = 6, SALINITY = 114,000 ppm, TRACE OF GAS.
11	22:10	1995	2040	42.0	0.20	11.25		100.0	0.20	11.25			40	4200	1st SWAB PULLED AFTER RE-PERFORATING. PH = 6, SAL = 114,000 ppm. TRACE OF GAS
12	23:59	1995	2050	42.0	0.20	11.45		100.0	0.20	11.45			60	4400	PH = 6, SAL = 110,000 ppm. TRACE OF GAS.
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LOAD FLUID TO RECOVER
PREVIOUS TOTAL RECOVERED
THIS REPORT RECOVERED
TOTAL TEST RECOVERED
LOAD FLUID LEFT TO RECOVER

WATER	OIL	OTHER	TOTAL
9.60 m3	0.00 m3	0.00 m3	9.60 m3
7.85 m3	0.00 m3	0.00 m3	7.85 m3
3.60 m3	0.00 m3	0.00 m3	3.60 m3
11.45 m3	0.00 m3	0.00 m3	11.45 m3
0.00 m3	0.00 m3	0.00 m3	

SUPERVISOR: B. WEISHAAR
PHONE #: (600) 700-2629
CALLING CARD #:



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61			DATE:	99/02/22
LOCATION:	300-I61-6050-12315-0			DAY #:	15
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.			AFE #:	994504
TOT. DEPTH:	2298.00 mKB	CASING:	244.5 mm	AFE #:	1371000
PBTD:	2640.50 mKB	TUBING:	88.9 mm	RIG:	CENALTA WELL SERVICE
FORMATION:	UPPER NAHANNI	PERFORATIONS:	2087.0 to 2091.0 mKB		
FORMATION:		PERFORATIONS:	to mKB		

PRESENT OPERATION: SWABBING WELL WHILE WAITING FOR PERFORATORS

PREVIOUS DAY OPERATION: SITP:	O.0 KP _s	SICP:	O.0 KP _s	CODE	COMPANY	COST
1999.02.21 @ 00:00 HOURS:				-	PAJAK	1500
SITP = VACUUM.				-	CENALTA WELL	4000
WAITING ON "EDTA" CHEMICAL SOLUTION.				-R	BEAVER ENT	3800
08:00 HOURS: SITP = VACUUM. SHIFT CHANGE.				-R	MUSTANG RENTALS	157
08:00 HOURS:				-R	DESTINY RENTALS	102
HELD DAILY DISCUSSION AND SAFETY MEETING				-R	DUNVEGAN RNTLS	334
WITH ALL ONSITE PERSONNEL. FUNCTION TESTED				-R	NEW BEGINNING	185
ALL EMERGENCY AIR KILLS INCLUDING REMOTE				-R	TEL/FAX/TELEX	150
BOPs. CONTINUED TO MONITOR SHUT IN WELLHEAD				-R	McCLELLANDS	492
PRESSURES, TBG PRESSURE AFTER 22 HR SHUT IN				-R	D.C ENERGY	390
- WAS STILL ON VACUUM. OPENED WELL, RIH WITH				-	BEAVER ENT	1095
SANDLINE TO TAG FLUID LEVEL @ 750m FROM				-	BEMANFREE MED	400
SURFACE (REFER TO SWAB SHEET).				-	NORWARD TESTERS	3774
PULLED A TOTAL OF 12 SWABS TO RECOVER				-	S.O.S.	830
6.65m3 FLUID (pH - 5, SALINITY @ 90,000 -				-	NOWSCO WELL	1000
95,000 PPM). WELL STILL NOT SHOWING SIGNS				-	SPLASH & DORE'	6851
OF ANY INFLOW FROM THE FORMATION.				-	SHOOTERS H/SHOT	2800
20:00 HOURS: SHIFT CHANGE				-	HUSKY TNSPT	6565
20:00 HOURS:				-		
HELD SAFETY MEETING WITH NIGHT CREW.				-		
PULL THE OCCASIONAL SWAB TO CHECK FOR INFLOW				-		
PULLED ANOTHER 3 SWABS. RECOVERED ANOTHER				-		
1.2m3 WATER. pH = 6. SALINITY = 84,000 -				-		
112,000 PPM. SMALL AMOUNT OF GAS PRESENT				-		
WITH EACH SWAB. TOTAL FLUID RECOVERED LAST				-		
24 HOURS (15 SWABS) = 7.85m3.				-		
DOES NOT APPEAR TO BE ANY INFLOW.				-		
1999.02.21 @ 24:00 HOURS CONTINUED TO SWAB.				-		
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RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	m3	175.00 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Swab	hrs	18.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	m ³	0.00 m ³	0.00 m ³
WATER BASED	6.85 m ³	34.40 m ³	100.00 m ³

FLUID VOLUMES		
TUBING	9.30	m3
ANNULUS	64.40	m3
CASING	81.70	m3

BIG HOURS	
DAILY	24.00
PREVIOUS	325.00
CUMULATIVE	349.00

WEATHER: CLOUDY / -10 C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/21
LOCATION:	300-I61-6050-12315-0	DAY #:	14
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2298.00 mKB	AFE \$:	1371000
PBTD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER NAHANNI	TUBING:	88.9 mm
FORMATION:		RIG:	CENALTA WELL SERVICE
		PERFORATIONS:	2087.0 to 2091.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: WAITING ON "EDTA" CHEMICAL TO WORK.

PREVIOUS DAY OPERATION: SITP:	0.0 kPa	SICP:	0.0 kPa	CODE	COMPANY	COST
1999.02.20 - 00:00HRS.				-	PAJAK	1500
WAITED FOR HOTSHOT AND "EDTA" CHEMICAL.				-	CENALTA WELL	4000
RIG CREW DID RIG MAINTENANCE.				-R	BEAVER ENT	3800
SLIPPED AND CUT DRILL LINE.				-R	MUSTANG RENTALS	157
08:00HRS - SITP = 360 kPa (9 hr. BUILD UP)				-R	DESTINY RENTALS	102
SHIFT CHANGE.				-R	DUNVEGAN RNTLS	334
				-R	NEW BEGINNING	185
08:00HRS - HELD DAILY DISCUSSION AND SAFETY				-R	TEL/FAX/TELEX	150
MEETING WITH ALL ONSITE PERSONNEL. FUNCTION				-R	McCLELLANDS	492
TESTED ALL EMERGENCY AIR KILLS. PERFORMED				-R	D.C ENERGY	390
GENERAL MAINTENANCE ON RIG AND EQUIPMENT				-	BEAVER ENT	170
WHILE WAITING ON "EDTA" CHEMICAL TO ARRIVE.				-	BEMANFREE MED	400
CHEMICAL ARRIVED ON LOCATION @ 16:00 HRS.				-	NORWARD TESTERS	3774
17 HR TBG BUILDUP - 555 kPa. OPENED WELL				-	S.O.S.	830
BACK THROUGH TESTERS. PRESSURE BLED DOWN TO				-		
0 kPa AND NEVER MAINTAINED ANY BLOW - GAS IS				-	NOWSCO WELL	0
BURNABLE. RIGGED IN NOWSCO PUMPER TO REGS.				-	SPLASH & DORE'	5788
HELD PRE-JOB DISCUSSION AND SAFETY MEETING.				-		
MIXED UP 2.0 m3 "EDTA" BLEND AS PER				-		
SPECIFICATIONS. PRESSURE TESTED SURFACE LINE				-		
TO 30 MPa - GOOD SOLID TEST.				-		
OPENED TBG. PUMPED 2.0 m3 "EDTA" SOLUTION				-		
DOWN THE TBG @ 0.50 m3/min FOLLOWED BY				-		
9.4 m3 3% KCL H2O TO PLACE THE SOLUTION				-		
INTO THE PERFORATIONS. NEVER CAUGHT UP				-		
TO FLUID AND THE TBG WAS ON VACUUM				-		
WHEN FINISHED PUMPING. PRESSURE TESTED				-		
ANNULUS @ 7 MPa - GOOD SOLID TEST.				-		
* "EDTA" SOLUTION WAS PUMPED @ 17:30 hrs *				-		
WELL WILL BE SHUT IN FOR 24 hrs - TO BE				-		
OPENED UP @ 17:30 hrs 1999.02.21.				-		
20:00HRS - SHIFT CHANGE.				-		
					DAILY COST:	22072
					PREVIOUS COST:	742867
					CUMULATIVE COST:	764939

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	0.00 m3	175.00 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/Swab	0.00 hrs	18.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	0.00 m3	27.55 m3	106.85 m3

FLUID VOLUMES		RIG HOURS	
TUBING	9.30 m3	DAILY	24.00
ANNULUS	64.40 m3	PREVIOUS	301.00
CASING	81.70 m3	CUMULATIVE	325.00

WEATHER: SUNNY -10 C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 06/97



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/21
DAY #: 14

REMARKS

20:00HRS - HELD SAFETY MEETING WITH NIGHT CREW.
WAITING ON "EDTA" CHEMICAL TO SOAK.
TAKING TUBING PRESSURE BUILD UPS.
24:00HRS - SITP = VACUUM.



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-161-6050-12315-0

DATE: 99/02/20
DAY #: 13

REMARKS

THE PERFORATIONS @ .04 m³/min FOR A TOTAL OF 3.75 m³ (HOLDING 7 MPa BACK PRESSURE) 28% HCL ACID. PULLED COIL TBG UP TO PLACE JET NOZZLE @ 2086.00 mKB. CLOSED IN CHOKE IN RETURN LINE. APPLIED 14 MPa TO ANNULUS. PROCEEDED WITH ACID SQUEEZE, INTERVAL TAKING ACID @ .020 m³/min @ 17 MPa, RATE AND PRESSURE WAS INCREASED @ FINAL STAGE OF SQUEEZE TO .040 m³/min @ 27 MPa FOR A PLACEMENT OF 2.05 m³ 28% HCL ACID, FOLLOWED ACID WITH 3% KCL H₂O (OVERDISPLACED ACID BY 1.0 m³). STOPPED PUMP, PRESSURE WENT FROM 27 MPa - 12 MPa IN 10 minutes - 4.4 MPa IN 20 minutes. RIH TO POSITION NOZZLE @ 2092.00 mKB (1 m BELOW BOTTOM PERFORATION). STARTED PUMPING N₂ @ A RATE OF 30 m³/min TO UNLOAD THE WELL. HOISTED OUT WITH COILED TUBING. CLOSED AND SECURED WELLHEAD. RIGGED DOWN COIL TBG UNIT AND N₂ PUMPER. RELEASED UNIT. NOWSCO TWIN REMAINS ON LOCATION.

18:00 hrs - 19:00 hrs, SITP - 260 kPa.

NOTE: WHILE UNLOADING THE WELL WITH N₂ WE HAD A INFLUX OF GAS @ SURFACE BUT THE WELL NEVER MAINTAINED ANY SIGNIFICANT BLOW THEREAFTER AND ONLY HAD N₂ IN THE RETURNS. *WILL PERFORM "EDTA" SPOT AND SOAK WHEN MATERIAL ARRIVES*
(20:00) SHIFT CHANGE.

(20:00) HELD SAFETY MEETING WITH NIGHT CREW.

SITP @ 2200 hrs = 450 kPa.(4 hr BUILD UP).RIGGED IN SWABBING EQUIPMENT. BLED OFF TUBING PRESSURE THROUGH TESTERS - NO SUSTAINED BLOW.

PULLED ONE SWAB FROM 2035.0 mKB. NO FLUID RECOVERED. SMALL AMOUNT OF GAS. H₂S READING WAS @ 350 ppm. START TAKING BUILD UPS AGAIN @ 23:00 HOURS. CONTINUED TAKING BUILDUPS, WAITING FOR EDTA CHEMICAL TO 24:00 1999.02.19



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/19
LOCATION:	300-161-6050-12315-0	DAY #:	12
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2298.00 mKB	AFE \$:	1371000
PBTD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER NAHANNI	TUBING:	88.9 mm
FORMATION:		RIG:	CENALTA WELL SERVICE
		PERFORATIONS:	2087.0 to 2091.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: SWABBING WELL

PREVIOUS DAY OPERATION:	SITP:	0.0 KPa	SICP:	0.0 KPa	CODE	COMPANY	COST
1999.02.18 @ 00:00 HOURS:					-	PAJAK	1500
NIPPLES ARRIVED @ 01:30 HOURS. ASSEMBLED					-	CENALTA WELL	8000
TCP. RAN IN HOLE ON WIRELINE AS FOLLOWS:					-R	BEAVER ENT	3800
PRESSURE ACTIVATED FIRING HEAD = 0.40m,					-R	MUSTANG RENTALS	157
BOTTOM SUB = 0.30m, ERHSC GUN LOADED WITH 39					-R	DESTINY RENTALS	102
GRAM DP CHARGES, 16 SPM & 60 DEGREE PHASING					-R	DUNVEGAN RNTLS	334
= 4.0m, TOP SUB = 0.30m, FIRING HEAD = 0.34m					-R	NEW BEGINNING	185
73mm EUE PUP JOINT = 3.06m, X/O 73mm EUE x					-R	TEL/FAX/TELEX	150
88.9mm EUE = 0.24m, FLOW SUB = 0.21m, SEP					-R	MCCLELLANDS	492
SUB = 0.52m, 88.9mm PUP = 1.26m, "XN" NIPPLE					-R	D.C ENERGY	390
69.85mm ID WITH 66.93mm NO-GO = 0.41m,					-	BEAVER ENT	0
2-88.9mm EUE PUP JOINTS = 3.08m EACH, 88.9mm					-	BEMANFREE MED	400
EUE PERFORATED PUP JOINT = 3.09m, 88.9mm EUE					-	NORWARD TESTERS	4774
x 88.9mm NSCT "X" NIPPLE WITH 69.85mm					-	S.O.S.	1410
PROFILE (SOUR SERVICE) = 0.34m, 88.9mm NSCT					-S	BAKER	11538
PUP JOINT = 3.10m, 88.9mm NSCT "X" WITH					-S	COMPUTALOG	13185
69.85mm PROFILE (INCOLOY) = 0.32m, 88.9mm					-S	ICG PROPANE	2070
NSCT PUP JOINT = 3.10m, X/O = 0.17m, SEAL					-	PEACE HOTSHOT	1275
BORE = 2.84m, X/O = 0.17m, BAKER F-1					-	G.B.S. TOWING	456
PERMANENT PACKER = 0.59m, (FROM BOTTOM TO					-		
CENTRE OF ELEMENT: 0.19m). FROM CENTRE OF					-		
ELEMENT TO CCL = 3.20m. RAN IN HOLE TO					-		
2105mKB. DID NOT NOTICE GOING INTO LINER TOP					-		
EXCEPT FOR CCL INDICATING SAME. LOGGED FROM					-		
2105-1985mKB. CORRELATED TO COMPUTALOG					-		
SECTOR BOND LOG DATED 99-02-11. LOGGED INTO					-		
POSITION. POSITIONED CCL @ 2057.98mKB.					-		
PACKER (CE) @ 2061.18mKB. TOP SHOT @ 2087mKB					-		
(3.2m FROM CCL TO CE, FROM CE TO TOP SHOT =					-		
25.82m). HOISTED. RIGGED OUT WIRELINE UNIT.					-		
RAN IN HOLE WITH BAKER E-22 ANCHOR SEAL					-		
ASSEMBLY = 0.86m, 1 JOINT 88.9mm EUE TUBING					-		
= 9.2m AND 88.9mm "X" NIPPLE WITH 69.85mm					-		
DAILY COST:							50218
PREVIOUS COST:							621179
CUMULATIVE COST:							671397

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	0.00 m3	175.00 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/5wab	4.00 hrs	18.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	8.40 m3	27.55 m3	97.45 m3

FLUID VOLUMES	
TUBING	9.30 m3
ANNULUS	64.40 m3
CASING	81.70 m3

RIG HOURS	
DAILY	24.00
PREVIOUS	253.00
CUMULATIVE	277.00

WEATHER: SUNNY!! -2°C

ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 16/17

FEB-19-1999 08:28

403 264 1584

96%

P.01



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/19
DAY #: 12

REMARKS

PROFILE = 0.37m. RAN IN HOLE WITH JOINTS FROM DERRICK.
08:00 HOURS: 10 JOINTS IN HOLE. SHIFT CHANGE.
08:00 HOURS:
HELD DAILY DISCUSSION AND SAFETY MEETING WITH ALL ONSITE PERSONNEL.
FUNCTION TESTED ALL EMERGENCY AIR KILLS INCLUDING REMOTE BOPs. CONTINUED TO RUN IN HOLE WITH AN ADDITIONAL 207-88.9mm TUBING JOINTS, LATCHED ANCHOR TYPE SEAL ASSEMBLY INTO PERMANENT PACKER, PRESSURE TESTED ANNULUS AND SEAL ASSEMBLY TO 14 MPa, GOOD TEST. SPACED OUT TUBING STRING FOR A TARGETED 4000 daN COMPRESSION. PULLED AND LAID OUT TOP SINGLE. MADE UP AND RAN IN HOLE WITH 2-88.9mm NIPPLES (.22m, .20m). PICKED UP AND RAN IN HOLE WITH TOP SINGLE. LATCHED ANCHOR TYPE SEAL ASSEMBLY BACK INTO PERMANENT PACKER AT 2061.18mKB. LANDED OFF TUBING HANGER, TUBING STRING IN 4000 daN COMPRESSION PRESSURE TESTED ANNULUS AND SEAL ASSEMBLY TO 14 MPa WHILE MONITORING TUBING GOOD 10 MINUTE TEST. RIGGED DOWN ALL RELATED HANDLING EQUIPMENT, BUTTONED UP WELLHEAD LAG SCREWS. RIGGED IN ALL SWAB RELATED EQUIPMENT. PULLED A TOTAL OF 9 SWABS TO RECOVER 6.40m³ 3% KCL H₂O (FLUID LEVEL @ APPROXIMATELY 1500m). RIGGED DOWN ALL RELATED SWABBING EQUIPMENT AND WORKING FLOOR. STRIPPED OFF BOP STACK AND INSTALLED WELLHEAD ASSEMBLY. RIGGED IN NORWARD PRODUCTION TESTERS ONTO WELLHEAD ASSEMBLY. PRESSURE TESTED WELLHEAD CONNECTIONS AND FLANGED TESTERS LINE @ 28 MPa, GOOD SOLID 10 MINUTE TEST. OPENED TUBING, COMPUTALOG PERSONNEL DROPPED FIRING BAR DOWN THE TUBING FROM SURFACE, TOOK 1.20 MINUTES TO FIRE GUN, GOOD RESPONSE.
ISIP: SLIGHT BLOW, 15 MINUTE - 40 kPa.
(WHILE PREPARING TO SWAB, DECIDED TO INSPECT THE ROPE SOCKET ON THE SWIVEL FOR THE SINKER BARS, THE SWIVEL WAS SHEARED AND READY TO BACK OFF THE NUBBIN WHICH WOULD ALLOW THE SINKER BARS TO FALL DOWNHOLE. RIG MANAGER TRAVELLED TO NEIGHBORING CENALTA RIG TO GET ANOTHER SWIVEL).
20:00 HOURS: SHIFT CHANGE.
20:00 HOURS:
HELD SAFETY MEETING WITH NIGHT CREW. RIGGED UP TO SWAB WHILE WAITING FOR SLICKLINE TO COME AND DROP OFF GUNS. PULLED 5 SWABS. RECOVERED A TOTAL OF 2.0m³ 100% KCL WATER. pH = 5 TO 6. SALINITY = 36000 TO 39000 ppm. FLUID @ 822m ON 1st SWAB, AND @ 1256.0m ON LAST SWAB. PULLED LAST SWAB FROM 1530mKB. SMALL AMOUNT OF GAS PRESENT. NO H₂S READINGS. CONTINUED TO SWAB TO 24:00 HOURS 1999.02.18.

NOTE:

TOP OF OTIS 69.85mm EUE "XN" NIPPLE WITH 66.93mm NO-GO = 2080.66mKB.
TOP OF OTIS 69.85mm NSCT "X" SOUR SERVICE NIPPLE @ 2071.07mKB.
TOP OF OTIS 69.85mm EUE/NSCT "X" INCOLOY NIPPLE = 2067.65mKB.
TOP OF BAKER "F-1" RETAINER PROD. PACKER (CE @ 2061.18m) = 2060.78mKB.
TOP OF OTIS 69.85mm EUE "X" NIPPLE = 2051.21mKB.



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

 NAB
 0002

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/18
LOCATION:	300-161-6050-12315-0	DAY #:	11
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT DEPTH:	2298.00 mKB	AFE I:	1371000
PSTD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER NAHANNI	TUBING:	88.9 mm
FORMATION:		RIG:	CENALTA WELL SERVICE
		PERFORATIONS:	2087.0 to 2091.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: PREPARING TCP ASSEMBLY

PREVIOUS DAY OPERATION:	SITP:	0.0 KP:	SICP:	0.0 KP:	CODE	COMPANY	COST
1999.02.17 @ 00:00 HOURS:					-	PAJAK	1500
STARTED TO REMOVE WELLHEAD. TUBING STARTED					-	CENALTA WELL	8000
TO FLOW. RECOVERED 0.6m3 WATER. TUBING DEAD.					-R	BEAVER ENT	3800
REMOVED WELLHEAD. INSTALLED AND BOLTED DOWN					-R	MUSTANG RENTALS	157
BOPs. PRESSURE TESTED PIPE RAMS AND RING					-R	DESTINY RENTALS	102
GASKET TO 1.4 AND 21.0 MPa. FOUND LEAK AT					-R	DUNVEGAN RNTLS	334
RING GASKET. TIGHTENED BOLTS AGAIN. TESTED					-R	NEW BEGINNING	185
AGAIN, OBTAINED GOOD TEST. UNSET PACKER.					-R	TEL/FAX/TELEX	150
LET RUBBERS RELAX. WELL FLOWED ANOTHER 0.5m3					-R	McCLELLANDS	492
WATER. PICKED UP 2 JOINTS TUBING. LOWERED					-R	D.C ENERGY	390
TUBING BOTTOM TO 2321mKB. CIRCULATED BOTTOMS					-	BEAVER ENT	144
UP (12.0m3) TO REMOVE ANY GAS AND/OR ACID					-	BEMANFREE MED	400
THAT MAY BE PRESENT IN WELLBORE, NONE					-	NORWARD TESTERS	3775
PRESENT. STOPPED PUMP. BLED OFF PUMP					-	S.O.S.	1410
PRESSURE. STARTED PULLING TUBING.					-S	BAKER	10000
08:00 HOURS: SHIFT CHANGE.					-S	COMPUTALOG	14800
08:00 HOURS:					-		
HELD DAILY DISCUSSION AND SAFETY MEETING					-		
WITH ALL ONSITE PERSONNEL. FUNCTION TESTED					-		
ALL EMERGENCY AIR KILLS INCLUDING REMOTE					-		
BOPs. HOISTED TUBING STRING AND BHA. LAID					-		
DOWN PACKER AND BHA. PACKER APPEARED TO BE					-		
IN GOOD CONDITION WITH THE EXCEPTION OF THE					-		
BOTTOM ELEMENT SHOWING SIGNS OF WEAR AND					-		
TEAR. RIGGED IN COMPUTALOG WIRELINE RELATED					-		
EQUIPMENT TO REGULATIONS. HELD PRE-JOB					-		
DISCUSSION WITH PERSONNEL. MADE UP AND RAN					-		
IN HOLE WITH 146.61mm GAUGE RING ASSEMBLY TO					-		
2314mKB, (TAKING WEIGHT NEVER FELT ANYTHING					-		
AT LINER TOP). HOISTED. LAID DOWN GAUGE RING					-		
ASSEMBLY. MADE UP AND RAN IN HOLE WITH					-		
177.8mm BAKER MODEL "S" PERMANENT BRIDGE					-		
PLUG TO 2315.00mKB. PULLED STRIP UP TO					-		
						DAILY COST:	45639
						PREVIOUS COST:	575540
						CUMULATIVE COST:	621179

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	0.00 m3	175.00 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/Swab	0.00 hrs	14.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	0.60 m3	19.15 m3	105.85 m3

FLUID VOLUMES	
TUBING	10.30 m3
ANNULUS	67.30 m3
CASING	81.70 m3

RIG HOURS	
DAILY	24.00
PREVIOUS	229.00
CUMULATIVE	253.00

WEATHER: OVERCAST - 10*

ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 05/91

FEB-18-1999 09:23

403 292 8145

98%

P.02

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/18
DAY #: 11

REMARKS

2214.00mKB CORRELATING TO SECTOR BOND LOG DATED 99/02/11. LOGGED PLUG INTO PLACE, SET PLUG @ 2306.00mKB. PULLED SETTING TOOL UP TO 2300.00mKB. RAN BACK DOWN TO TAG BRIDGE PLUG @ 2306.00mKB. HOISTED SETTING TOOL. FILLED HOLE WITH 4.0m3 3% KCL H2O, PRESSURE TESTED CASING, LINER AND BRIDGE PLUG TO 14 MPa, GOOD SOLID 15 MINUTE TEST. MADE UP AND RAN IN HOLE WITH DUMP BAILER TO PLACE 8 LINEAR METRES CLASS "G" CEMENT ON TOP OF BRIDGE PLUG TO PUT CEMENT TOP @ 2298.00mKB. HOISTED BAILER.

SPOKE WITH JEFF FROM SIGNATURE AIRWAYS @ 17:45 HOURS, HE INDICATED THAT THE PLANE BRINGING THE NIPPLES FROM EDMONTON WOULD ARRIVE IN FT. LIARD @ +/- 20:40 HOURS. TRAVELLED TO FT. LIARD TO RECIEVE MATERIALS.

NOTE: DURING DAILY WALK AROUND WE NOTICED THAT JOINTS #224 AND #225 IN DERRICK HAD SOME EXTERNAL CORROSION, WILL LAY OUT ON TRIP IN HOLE WITH SEAL ASSEMBLY.

20:00 HOURS: SHIFT CHANGE.

20:00 HOURS:

WAITED FOR NIPPLES TO ARRIVE. THE PLANE COULD NOT LAND AT FT. LIARD SO THE NIPPLES WERE FLOWN TO FT. NELSON. ARRANGED FOR HOT SHOT TO BRING NIPPLES FROM FT. NELSON TO LEASE. RIG CREW DOING GENERAL MAINTENANCE AND LEASE CLEAN UP WHILE WAITING. PREPARING TCP ASSEMBLY TO 24:00 HOURS 1999.02.17.

NOTE: NIPPLES SHOULD ARRIVE @ 01:30 HOURS.

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME	CDN FOREST ET AL FLETT RAPIDS I-61	DATE	99/02/17
LOCATION	300-161-6050-12315-0	DAY #	10
OBJECTIVE	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #	994504
TOT DEPTH	2660.00 mKB	CASING	244.5 mm
PSD	2640.50 mKB	TUBING	88.9 mm
FORMATION	UPPER ARNICA	PERFORATIONS	2311.0 to 2318.0 mKB
FORMATION		PERFORATIONS	to mKB

PRESENT OPERATION: REMOVE WELLHEAD. INSTALL BOPs.

PREVIOUS DAY OPERATION	SITP	0.0 kPa	SICP	0.0 kPa	CODE	COMPANY	COST
1999.02.16 @ 00:00 HOURS:					-	PAJAK	1500
RAN IN HOLE WITH COILED TUBING UNIT @ 30m/					-	CENALTA WELL	8000
MINUTE. PUMPED KCL WATER @ 35 L/MINUTE TO					-R	BEAVER ENT	3800
KEEP COIL CLEAN. PUMPED ACID INTO COIL @					-R	MUSTANG RENTALS	157
2000mKB. STOPPED COIL @ 2330mKB. CLOSED WING					-R	DESTINY RENTALS	102
VALVE. SQUEEZED 28% HCL ACID INTO UPPER					-R	DUNVEGAN RNTLS	334
ARNICA ZONE (2311-2318mKB). PUMPED 2.0m3					-R	NEW BEGINNING	185
ACID @ 0.10m3/MINUTE. CTU PRESS = 27.2 MPa,					-R	TEL/FAK/TELEX	150
ANNULUS PRESS = 21.7 MPa. STOPPED PUMP TO					-R	McCLELLANDS	492
LET PRESSURE DROP. IN 10 MINUTES PRESSURE					-R	D.C ENERGY	390
DROPPED TO 16.7 MPa. STARTED PUMPING @ 0.05					-	BEAVER ENT	1270
m3/MINUTE. HAD TO SLOW RATE DOWN TO 0.03m3/					-	BEMANFREE MED	400
MINUTE AND THEN TO 0.02m3/MINUTE. ANNULUS					-	NORWARD TESTERS	4774
PRESSURE @ 27.6 MPa. STOPPED PUMP AFTER					-	COMPASS TRANSFER	9891
SQUEEZING ANOTHER 2.5m3 ACID. LET PRESSURE					-	S.O.S.	1350
DROP TO 25.7 MPa. PUMPED AND SQUEEZED AWAY					-	NOWSCO	90055
REMAINING 0.5m3 ACID @ 0.02m3/MINUTE. PULLED					-	SPLASH/DORE	9125
COIL UP INSIDE TUBING TO 2300mKB. PUMPED					-	VAN WATERS	5521
ANOTHER 0.2m3 WATER, TO MAKE SURE ALL ACID					-	MOWHAWK PDCTS	335
IS DISPLACED INTO THE FORMATION. DROPPED					-	TREE SAVERS	4595
BACK DOWN TO 2323mKB. OPENED WING VALVE.					-		
BLED OFF TUBING PRESSURE. STARTED N2 @					-		
25 SCm/MINUTE TO GAS LIFT WELL. AFTER 10					-		
MINUTES. HOISTED @ 25m/MINUTE. REDUCED N2					-		
RATE TO 10 SCm/MINUTE WHEN COIL @ 1550mKB.					-		
SHUT DOWN N2 WHEN COIL IS @ SURFACE. CLOSED					-		
MASTER VALVE. BLED DOWN COIL TO TESTERS.					-		
TOTAL FLUID PUMPED: 5.0m3 15% HCL ACID,					-		
2.9m3 3% KCL H2O TO DISPLACE ACID AND					-		
1.0m3 NEUTRALIZING WATER. TOTAL FLUID					-		
RECOVERED: 12.25m3 WATER. RIGGED OUT					-		
COIL FROM WELLHEAD. REPLACED CAP. MONITOR					-		
WELLHEAD PRESSURE BUILD UP.					-		
DAILY COST							142426
PREVIOUS COST							433114
CUMULATIVE COST							575540

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	30.00 m3	175.00 m3
OIL/CONDENSATE	0.00 m3	0.00 m3
GAS FLARED	0.00 m3	0.00 m3
HOURS Flow/Swab	0.00 hrs	14.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	10.00 m3	18.55 m3	102.45 m3

FLUID VOLUMES	
TUBING	10.30 m3
ANNULUS	67.30 m3
CASING	88.40 m3

ING. HOURS	
DAILY	24.00
PREVIOUS	205.00
CUMULATIVE	229.00

WEATHER: SNOWING - 12 *
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 04/99

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/17
DAY #: 10

REMARKS

08:00 HOURS: SHIFT CHANGE.

08:00 HOURS:

HELD DAILY DISCUSSION AND SAFETY MEETING WITH ALL ONSITE PERSONNEL. FUNCTION TESTED ALL EMERGENCY AIR KILLS. TREE SAVERS ARRIVED ON LOCATION @ 10:30 HOURS. SITP: 510 kPa. OPENED WELL BACK TO TEST FACILITY. PRESSURE BLED DOWN TO 0 kPa AND NEVER MAINTAINED ANY BLOW. RIGGED IN TREE SAVERS WELLHEAD ISOLATION TOOL AND NOWSCO PUMPER TO REGULATIONS. HELD PRE-JOB DISCUSSION AND SAFETY MEETING WITH ALL ONSITE PERSONNEL. PRESSURE TESTED SURFACE LINES TO 65 MPa, GOOD SOLID 10 MINUTE TEST. OPENED TUBING, PUMPED 10.0m³ 28% HCL ACID DOWN THE TUBING @ .70m³/MINUTE FOLLOWED BY 12.80m³ 3% KCL H₂O (REPRESENTS 1.0m³ OVERDISPLACEMENT). SQUEEZED 10m³ 28% HCL @ 0.36m³/MINUTE @ 46 MPa, ISIP: 44 MPa, 21 MINUTE - 33 MPa. CLOSED AND SECURED WELLHEAD. RIGGED DOWN TREE SAVERS WELLHEAD ISOLATION TOOL AND ALL NOWSCO WELL SERVICE RELATED EQUIPMENT. RIGGED IN RIG PUMP AND STEEL LINE. PUMPED AN ADDITIONAL 15m³ 3% KCL H₂O DOWN THE TUBING TO DISPLACE THE ACID INTO THE ZONE @ .03m³/MINUTE @ 30 MPa. (TOOK EXTRA TIME TO PUMP KCL H₂O BECAUSE ONCE UPDATED ON PROCEDURE OF OPERATION TREE SAVERS AND NOWSCO WERE ALREADY RIGGED DOWN OFF WELLHEAD).

20:00 HOURS: SHIFT CHANGE.

20:00 HOURS:

HELD SAFETY MEETING WITH NIGHT CREW AND WIRELINE CREW. STOPPED PUMPING KCL WATER. PREPARED TO LOG PERFORATIONS. SLOWLY BLED OFF TUBING PRESSURE TO RIG TANK. RECOVERED 10.0m³ WATER BEFORE TUBING PRESSURE WAS NIL. RIGGED IN WIRELINE. RAN IN GR-CCL TOOL. LOGGED FROM 2400mKB. GAMMA RAY TOOL STOPPED WORKING. HOISTED. REPLACED TOOL. BLED OFF CASING PRESSURE TO NIL. RAN IN HOLE TO 2400mKB. LOGGED FROM 2400-2240mKB. CORRELATED TO COMPUTALOG SPECTRAL PE DENSITY COMPENSATED NEUTRON DATED 98.12.22. PULLED REPEAT PASS OVER ZONE. HOISTED. RIGGED DOWN WIRELINE. LOG INDICATED PERFORATIONS FROM 2311-2318mKB. "RA" COLLAR IS @ 2274.41mKB. STARTED TO REMOVE WELLHEAD TO 24:00 HOURS 1999.02.16.

CD 05/97

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELL NAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/16
LOCATION:	300-I61-6050-12315-0	DAY #:	9
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2660.00 mKB	CASING:	244.5 mm
ABTD:	2640.50 mKB	TUBING:	88.9 mm
FORMATION:	UPPER ARNICA	RIG:	CENALTA WELL SERVICE
FORMATION:		PERFORATIONS:	2311.0 to 2318.0 mKB
FORMATION:		PERFORATIONS:	to mKB

PRESENT OPERATION: RIH WITH COILED TUBING TO PERFORM ACID SQUEEZE

PREVIOUS DAY OPERATION:	SITP:	0.0 KPa	SICP:	0.0 KPa	CODE	COMPANY	COST
1999.02.15 @ 00:00 HOURS:					-	PAJAK	1500
SITP = 8.0 MPa, SICP = Nil.					-	CENALTA WELL	8000
RIGGED OUT STAIRS AND FLOOR. PREPARED TO RIG					-R	BEAVER ENT	3800
IN COILED TUBING UNIT.					-R	MUSTANG RENTALS	157
SITP = 3.0 MPa, SICP = Nil.					-R	DESTINY RENTALS	102
08:00 HOURS: SHIFT CHANGE					-R	DUNVEGAN RNTLS	334
08:00 HOURS:					-R	NEW BEGINNING	185
HELD DAILY DISCUSSION AND SAFETY MEETING					-R	TEL/FAX/TELEX	150
WITH ALL ONSITE PERSONNEL. FUNCTION TESTED					-R	McCLELLANDS	492
ALL EMERGENCY AIR KILLS. OPENED WELL BACK TO					-R	D.C ENERGY	390
TESTERS TO BLEED OFF 3.0 MPa PRESSURE.					-	BEAVER ENT	975
REMOVED TOP FLANGE OFF OF WELLHEAD ASSEMBLY.					-	BEMANFREE MED	400
INSTALLED ADAPTER FOR COILED TUBING. RIGGED					-	NORWARD TESTERS	4774
IN NOWSCO WELL SERVICE RELATED EQUIPMENT TO					-	COMPASS TRANSFER	0
REGULATIONS. CONDUCTED VISUAL EQUIPMENT					-	S.O.S.	1350
INSPECTION, ALL ITEMS APPEARED TO BE OK.					-	NOWSCO	0
HELD PRE-JOB DISCUSSION AND SAFETY MEETING					-	SPLASH/DORE	7144
WITH ALL ONSITE PERSONNEL REGARDING CTU JOB.					-		
PRESSURE TESTED SURFACE LINES TO 30 MPa.					-		
OPENED WELL, RAN IN HOLE WITH COILED TUBING					-		
@ 30m/MINUTE PUMPING .030m3/MINUTE 3% KCL					-		
H2O THROUGH COIL TO KEEP NOZZLE FREE. RAN IN					-		
HOLE TO PLACE COIL @ 2320mKB. PERFORMED					-		
1.1 m3 ACID WASH ON THE PERFORATIONS FROM					-		
THE BOTTOM UP, PULLED COIL UP TO 2309mKB.					-		
APPLIED 21 MPa PRESSURE ON THE ANNULUS AND					-		
PACKER. CLOSED IN RETURN LINE TO TESTERS,					-		
STARTED TO STAGE SQUEEZES TO TRY AND					-		
ESTABLISH A FEEDRATE ON THE UPPER ARNICA					-		
@ 28 MPa WORKING THE JET NOZZLE DOWNWARD IN					-		
STAGES OF 2m INCREMENTS. REPEATED THIS					-		
PROCEDURE NUMEROUS TIMES AND ONLY HAD A					-		
FEEDRATE SO SMALL THAT IN 2.15 MINUTES WE					-		
						DAILY COST:	29753
						PREVIOUS COST:	403361
						CUMULATIVE COST:	433114

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	m3	145.00 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Seab	hrs	14.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OR BASED	m3	0.00 m3	0.00 m3
WATER BASED	m3	8.55 m3	96.45 m3

FLUID VOLUMES		RIG HOURS	
TUBING	10.30 m3	DAILY	24.00
ANNULUS	67.30 m3	PREVIOUS	181.00
CASING	88.40 m3	CUMULATIVE	205.00

WEATHER: SUNNY - 15+ C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CP 01/01

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-161-6050-12315-0

DATE: 99/02/16
DAY #: 9

REMARKS

ONLY PLACED .30m3 28% HCL ACID INTO THE PERFORATIONS. DURING THE STAGES OPENED THE TUBING BACK TO THE TESTERS BLEEDING THE PRESSURE DOWN TO 14 MPa THE FIRST TIME AND 7 MPa THE SECOND TIME TO ENSURE WE HAD FRESH 28% HCL ACID AT THE NOZZLE BUT WERE STILL UNSUCCESSFUL BREAKING DOWN THE INTERVAL. SPOTTED A 3.6m3 28% HCL ACID BALANCE PLUG ACROSS THE INTERVAL (5.0m3 TOTAL). PULLED OUT OF THE HOLE WITH COIL TUBING @ 22 m/MINUTE TO SURFACE. CLOSED IN WELL, REMOVED INJECTOR HEAD, INSTALLED CAP ON BOPs. RIGGED IN NOWSCO PUMPER TO THE TUBING. PRESSURE TESTED SURFACE LINE TO 35 MPa. OPENED TUBING, PUMPED .30m3 3% KCL H2O DOWN THE TUBING, ATTEMPTED A BREAKDOWN ON THE INTERVAL @ 35 MPa, WITH 10.01 kPa/m KCL H2O = 57618 kPa @ PERFORATIONS. PRESSURE WENT FROM 35 MPa-27 MPa IN 10 MINUTES, TOOK PRESSURE BACK UP TO 35 MPa, TOOK .16m3 TO FILL. PRESSURE BLEED DOWN TO 29 MPa IN 10 MINUTES. TOOK PRESSURE BACK UP TO 35 MPa, TOOK .16m3 TO FILL. PRESSURE BLEED DOWN TO 24 MPa IN 25 MINUTES. TOOK PRESSURE BACK UP TO 35 MPa, TOOK .30m3 TO FILL. TOTAL ACID SQUEEZED DURING TOUR = .92m3 28% HCL ACID.

20:00 HOURS: SHIFT CHANGE.

20:00 HOURS:

HELD SAFETY MEETING WITH NIGHT CREW. SITP = 18 MPa. STARTED PUMPING ACID AT 170 L/MINUTE. TUBING PRESSURE INCREASED TO 35 MPa. HAD TO KEEP SLOWING THE PUMPING RATE DOWN TO HOLD THE PRESSURE FROM GOING OVER 35 MPa. SQUEEZED AWAY THE REMAINING 4.08m3 OF 28% ACID. FINAL FEED RATE WAS 0.08 m3/MINUTE, BUT THE PRESSURE WAS STILL INCREASING SLIGHTLY. STOPPED PUMP. TUBING PRESSURE DROPPED FROM 35 MPa TO 26.6 MPa IN 15 MINUTES. SECURED WELL. DRAINED LINES. RIGGED PUMP LINES FROM WELLHEAD. RIGGED COILED TUBING BACK ONTO WELLHEAD. HELD SAFETY MEETING WITH ALL LEASE PERSONNEL. WENT OVER OPERATIONS AND SAFETY CONCERNS. FILLED COIL WITH 2.6m3 3% KCL WATER. PRESSURE TESTED SURFACE LINES AND COIL TO 28 MPa. OPENED MASTER VALVES. SITP = 17 MPa. BLEED OFF PRESSURE TO RIG TANK. STARTED TO RUN IN HOLE WITH COILED TUBING @ 30m/MINUTE TO 24:00 HOURS 1999.02.15.

CD 06/97

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/15
LOCATION:	300-161-6050-12315-0	DAY #:	8
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	APP #:	994504
TOT DEPTH:	2660.00 mKB	APP #:	1371000
PTD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER ARNICA	TUBING:	88.9 mm
FORMATION:		PERFORATIONS:	2311.0 to 2318.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: PREPARE TO RIG IN COIL TUBING UNIT

PREVIOUS DAY OPERATION:	SITP:	0.0 KPa	SICP:	0.0 KPa	CODE	COMPANY	COST
1999.02.14 800:00 RIGGED OUT SLICKLINE UNIT. RIGGED OUT FLOOR AND RELATED EQUIPMENT. PREPARE TO RIG IN HALLIBURTON CTU, TO CONDUCT UNDERBALANCED FORMATION WASH. INSTALLED ADAPTOR FLANGE ON WELL HEAD. SPOT EQUIPMENT AND RIG IN 38.1 MM COILED UNIT, PUMPER, N2 UNIT, ACID TRUCK AND SHOWER UNIT. HELD SAFETY AND PROCEDURE MEETING W/ ALL LEASE PERSONNEL. PICKLE COIL W/ 0.5 M3 15% HCL ACID. RETURNS GOING TO TESTERS. PRESSURE TEST SURFACE LINES, COIL AND WELL HEAD (TO TOP MASTER VALVE) TO 21.0 MPa. OPEN MASTER VALVES AND RIH TO 2319 mKB. WASH PERFORATIONS W/ 11.0 M3 15 % HCL ACID, W/ N2 RATE OF 22 SCM / MINUTE. WASHED PERFS WITH 4 PASSES. MAXIMUM WELLHEAD PRESSURE = 3.4 MPa. SAT BELOW PERFORATIONS FOR 10 min. UNLOADED WELL WITH RETURNS TO TESTERS @ 22 SCM/min, TO START LIFTING FLUID FROM WELLBORE. (08:00) SHIFT CHANGE. (08:00) HELD DAILY DISCUSSION AND SAFETY MEETING WITH ALL ONSITE PERSONNEL. CONTINUED WITH COIL TBC ACID WASH/SQUEEZE. PULLED OUT OF THE HOLE WITH COIL TBC @ 20 m/min PUMPING N2 @ 22 SCM/min TO A DEPTH OF 980 m, DECREASED N2 RATE TO 5 SCM/min AND INCREASED REEL SPEED TO 25 m/min. DISPLACED COIL OVER WITH 1.0 m3 SODA ASH NEUTRALIZING H2O TO TESTERS. CLOSED AND SECURED WELLHEAD. RIGGED DOWN REEL UNIT AND ALL NOWSCO WELL SERVICE RELATED EQUIPMENT.					-	PAJAK	1500
					-	CENALTA WELL	8000
					-R	BEAVER ENT	3800
					-R	MUSTANG RENTALS	157
					-R	DESTINY RENTALS	102
					-R	DUNVEGAN RNTLS	334
					-R	NEW BEGINNING	185
					-R	TEL/FAX/TELEX	150
					-R	MCCLELLANDS	492
					-R	D.C ENERGY	390
					-	BEAVER ENT	840
					-	BEMANFREE MED	400
					-	NORWARD TESTERS	4775
					-	COMPASS TRNSFER	4615
					-	S.O.S.	1350
					-	NOWSCO	70530
					-	BONNETS	3413
					-		
					-		
					-		
					-		
DAILY COST:							101033
PREVIOUS COST:							302328
CUMULATIVE COST:							403361

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	m3	145.00 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Seal	hrs	14.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	m3	0.00 m3	0.00 m3
WATER BASED	m3	8.55 m3	96.45 m3

FLUID VOLUME		NO. HOURS	
TUBING	10.30 m3	DAILY	24.00
ANNULUS	67.30 m3	PREVIOUS	157.00
CASING	88.40 m3	CUMULATIVE	181.00

WEATHER: CLEAR - 18° C

ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 04/97

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/15
DAY: 8

REMARKS

RIGGED IN WORKING FLOOR AND ALL RELATED SWAB EQUIPMENT. SITP - 160 kPa. RIH WITH SANDLINE TO 2200mKB. NEVER TAGGED ANY FLUID. HOISTED AND CHECKED CUP - IN GOOD CONDITION. PULLED A TOTAL OF 6 DRY SWABS - NO INFLUX FROM ZONE.

* THROUGHOUT THE ACID WASH WITH THE ACID ON BOTTOM IT SEEMED THAT THE WELL WENT ON VACUUM BECAUSE WE NEVER HAD ANY BACK PRESSURE @ SURFACE WITH THE FLOW LINE SHUT IN. THE N2 RATE WAS INCREASED FROM 12 SCm/min TO 22 SCm/min BEFORE WE SEEN ANY PRESSURE @ SURFACE (RETURN LINE SHUT IN).

ONCE THE ACID WAS DISPLACED FROM THE COIL, DROPPED BELOW BOTTOM PERFORATION AND UNLOADED WELL TO SURFACE *

* TOTAL FLUID USED DURING TREATMENT *

= 0.50 m3 15% HCL ACID PICKLE,

= 11.0 m3 15% HCL ACID WASH,

= 1.0 m3 SODA ASH NEUTRALIZING SOLUTION FOR COIL.

TOTAL FLUID RECOVERED DURING TREATMENT = 12.28 m3 (2.18 m3 WITH A PH OF 6, 9.25 m3 WITH A PH OF 1 (ACID H2O), 0.85 m3 SODA ASH NEUTRALIZING SOLUTION).

REMOVED SWABBING TREE FROM WELLHEAD ASSEMBLY, TIED IN STEEL LINE TO TBG. FILLED TBG WITH 10.0 m3 3% H2O, ATTEMPTED TO ESTABLISH A FEEDRATE ON THE UPPER ARNICA WITH 3% KCL H2O @ 7 MPa, 14 MPa, 21 MPa, 24 MPa - THE ZONE APPEARS TO BE VERY TIGHT AND DOESN'T WANT TO TAKE ANY FLUID THEREFORE, NOT ALLOWING ANY WIDTH @ THE PERFORATIONS. SPOKE WITH BRIAN @ NOWSCO IN FT. ST. JOHN TO ESTABLISH A NEW COIL TUBING ACID JOB PROPOSAL.

(20:00) SHIFT CHANGE.

(20:00) HELD SAFETY MEETING W/ NIGHT CREW. MONITOR TUBING PRESSURE DROP.

2005 HRS = 24.0 MPa, 2020 HRS = 20.3 MPa, 2035 HRS = 18.2 MPa,

2050 HRS = 16.5 MPa, 2105 HRS = 15.3 MPa, 2125 HRS = 14.2 MPa.

2140 HRS = 13.3 MPa, 2200 HRS = 11.9 MPa, 2215 HRS = 11.1 MPa.

SHUT IN WELL. DRAIN PUMP LINES AND MONITOR TUBING PRESSURE DROP @ WELLHEAD.

DECIDE TO DO ANOTHER ACID JOB IN THE MORNING.

NIGHT CREW IS DOING GENERAL MAINTENANCE JOBS AROUND THE RIG WHILE WAITING.

SHUT IN TUBING PRESSURE HAS DROPPED FROM 24.0 MPa TO 8.0 MPa IN 4 HRS.

(24:00) SITP = 8.0 mpa. SICP = nil.

REPORT TO 24:00 HOURS 1999.02.14.

02/10/99

Location: 300-161-6050-12315-0

Perforations:	231'.00	to	2318.00	mKB			to		mKB			to		mKB
		to		mKB			to		mKB			to		mKB

Perforations	to	mKB	to	mKB	to	mKB
	to	mKB	to	mKB	to	mKB

Tank Coefficient: 0.0047

	WATER	OIL	OTHER	TOTAL
LOAD FLUID TO RECOVER	4.30 m3	0.00 m3	0.00 m3	4.30 m3
MINIMUM TOTAL RECOVERED	0.00 m3	0.00 m3	0.00 m3	0.00 m3
THIS REPORT RECOVERED	2.55 m3	0.00 m3	0.00 m3	2.55 m3
TOTAL TEST RECOVERED	2.55 m3	0.00 m3	0.00 m3	2.55 m3
LOAD FLUID LEFT TO RECOVER	1.75 m3	0.00 m3	0.00 m3	

SUPERVISOR: B. WEISMAIR
PHONE: (600) 700-2629
CALLING CARD: 2

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/14
DAY: 7

REMARKS

PROBLEM. BLED THE PRESSURE OFF INSIDE THE GREASE ZERTS BUT WERE STILL UNABLE TO OPEN THE VALVE (IT FUNCTIONED PROPERLY PRIOR TO PRESSURE TEST). UNBOLTED TOP FLANGE AND VALVE, REMOVED VALVE, REINSTALLED FLANGED TOP CAP ONTO WELLHEAD ASSEMBLY. REMOVED CAP, COMPUTALOG PERSONNEL DROPPED FIRING BAR DOWN THE TBG FROM SURFACE, TOOK 1.52 MINUTES TO FIRE PERFORATING GUN - GOOD RESPONSE. GUNS WERE FIRED @ 15:00 99.02.13. SECURED WELLHEAD. 15 AND 30 min PRESSURE READINGS WERE, SICP - 0 kpa, SITP - 0 kpa. RIGGED IN HEAT AND TARPS AROUND WELLHEAD ASSEMBLY. RIGGED IN WORKING FLOOR AND ALL RELATED SWABBING EQUIPMENT. ATTEMPTED TO SWAB WELL @ 16:00 hrs BUT HAD A BAKER PUMP PROBLEM - WOULDN'T FUNCTION TEST. REPAIRED BAKER PUMP AND PROCEEDED TO SWAB @ 17:45 hrs. * REFER TO SWAB SHEET * PULLED A TOTAL OF 5 SWABS TO RECOVER 1.55 m3 3% KCL H2O.
(20:00) SHIFT CHANGE.

(20:00) HELD SAFETY MEETING W/ NIGHT CREW. CONTINUE SWABBING. PULLED ANOTHER 4 SWABS. RECOVERED ANOTHER 1.0 m3 KCL WATER. * TOTAL SWABS PULLED = 9. TOTAL FLUID RECOVERED = 2.55 m3 100 % KCL WATER. PH = 6, SALINITY = 29000 PPM. VERY SMALL AMOUNT OF GAS. ON LAST SWAB, FLUID WAS @ 1850 m. PULLED FROM 2200 m.* CONSULT W/ CALGARY. DECIDED TO GO AHEAD AND PERFORM ACID WASH. LAID DOWN SWABBING EQUIPMENT. RIGGED IN BONNETT SLICKLINE UNIT. RAN IN HOLE WITH OTIS "B" SHIFT UP TOOL TO SEPARATION SUB @ 2306mKB. DROPPED OFF GUNS. RAN DOWN TO 2410 mKB. HOLE IS CLEAR TO THAT DEPTH. HOISTED OUT WITH SLICKLINE UNIT TO 24:00 HOURS 1999.02.13

CD 04/97

PAJAK ENGINEERING LTD.

SWAB REPORT

Well Name		CDN FOREST ET AL FLETT RAPIDS I-61		Location		300-161-6050-12315-0		Page	1 of
								Date	99/02/73
Formation:	UPPER AFRICA	Perforations:	2311.00 to 2318.00 mKB		to	mKB		to	mKB
			to		to	mKB		to	mKB
Formation:		Perforations:	to		to	mKB		to	mKB
			to		to	mKB		to	mKB

Load Fluid Type: 3% KCL H₂O.

Tank Coefficient: 0.0047

[illegible]

	WATER	OIL	OTHER	TOTAL
LOAD HAD TO RECOVER	4.30 m3	0.00 m3	0.00 m3	4.30 m3
PREVIOUS TOTAL RECOVERED	0.00 m3	0.00 m3	0.00 m3	0.00 m3
THIS REPORT RECOVERED	2.55 m3	0.00 m3	0.00 m3	2.55 m3
TOTAL TEST RECOVERED	2.55 m3	0.00 m3	0.00 m3	2.55 m3
TOTAL HAD LEFT TO RECOVER	1.75 m3	0.00 m3	0.00 m3	

SUPERVISOR: B. WEISHAAR
PHONE # (600) 700-2629
CALLING CARD #

CD 6/87

TOTAL P.09

02/16/99 TUE 09:31 FAX 403 292 8145

CANADIAN FOREST

8002

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME	CDN FOREST ET AL FLETT RAPIDS I-61	DATE	99/02/13
LOCATION	300-161-6050-12315-0	DAY #	6
OBJECTIVE	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #	994504
TOT DEPTH	2660.00 mKB	AFE #	1371000
PDTS	2640.50 mKR	RIG	CENALTA WELL SERVICE
FORMATION	UPPER ARNICA	PERFORATIONS	2311.0 to 2318.0 mKB
FORMATION		PERFORATIONS	to mKB

PRESENT OPERATION: PREPARING TO COME OFF ON/OFF TOOL AND CIRCULATE OUT SWAB CUP

PREVIOUS DAY OPERATION	SICP	0.0 KPa	SICP	0.0 KPa	CODE	COMPANY	COST
99.02.12 @ 00:00 RAN IN TCP ASSEMBLY.	-				-	PAJAK	1500
TOTAL LENGTH OF BHA = 43.69 m.	-				-	CENALTA WELL	8000
FROM RA SOURCE TO TOP SHOT = 36.59 m. RAN IN	-R				-R	BEAVER ENT	3800
REMAINING 239 JOINTS FROM DERRICK, 2263.43m.	-R				-R	MUSTANG RENTALS	157
NO TROUBLE GOING INTO LINER TOP.	-R				-R	DESTINY RENTALS	102
TBG STARTED TO HANG UP FURTHER INTO LINER.	-R				-R	DUNVEGAN RNTLS	334
SUSPECT COLLARS ARE HANGING UP ON LINER TOP.	-R				-R	NEW BEGINNING	185
INSTALLED NIPPLE, 0.19m AND DOGNUT, 0.24m.	-R				-R	TEL/FAX/TELEX	150
LANDED TUBING IN DOGNUT. RIGGED WIRELINE	-R				-R	MCCLELLANDS	492
UNIT BACK IN TO RUN POSITIONING LOG.	-R				-R	D.C ENERGY	390
99.02.12 @ 08:00 (SHIFT CHANGE)	-				-	BEAVER ENT	700
(08:00) HELD DAILY DISCUSSION AND SAFETY	-				-	BEMANFREE MED	400
MEETING WITH ALL ONSITE PERSONNEL. FUNCTION	-				-	NORWARD TESTERS	3774
TESTED ALL EMERGENCY AIR KILLS INCLUDING	-				-	BAKER OIL TOOLS	8275
REMOTE BOPs. ATTEMPTED TO RIH WITH WIRELINE	-S				-S	HALLIBURTON	1985
TO POSITION "RA" MARKER. ENCOUNTERED SOME	-S				-S	FEDMET TUBING	53140
DIFFICULTIES WITH AN ICE PLUG @ THE TBG	-				-		
HANGER. RESOLVED PROBLEM, RIH TO LOG "RA"	-				-		
MARKER. LOCATED MARKER @ 2268.20 mKB. HOISTED	-				-		
WITH WIRELINE. PULLED AND LAID OUT TUBING	-				-		
HANGER AND TOP SINGLE. MADE UP AND RIH WITH	-				-		
6.60 m OF PUPS AND NIPPLES * NEED .40 m FOR	-				-		
COMPRESSION * (1 - 3.08 m, 1 - 2.48 m,	-				-		
1 - .66 m, 2 - .19 m - ONE BELOW TBG HANGER)	-				-		
PICKED UP TOP SINGLE AND TBG HANGER, RIH AND	-				-		
LANDED OFF TBG HANGER. SPACED OUT TBG STRING	-				-		
AND SET PACKER IN 6000 daN COMPRESSION TO	-				-		
PUT "RA" MARKER @ 2274.40 mKB, CE @	-				-		
2287.50 mKB. RELANDED TBG HANGER. RIGGED IN	-				-		
COMPUTALOG RELATED EQUIPMENT. RIH TO LOG	-				-		
"RA" MARKER FOR CONFIRMATION, LOCATED "RA"	-				-		
@ 2274.41 mKB, TOP SHOT @ 2311.0 mKB.	-				-		
						DAILY COST:	83384
						PREVIOUS COST:	191118
						CUMULATIVE COST:	274502

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	m3	145.00 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Swab	7.00 hrs	7.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	0.00 m3	0.00 m3	0.00 m3
WATER BASED	8.00 m3	8.00 m3	105.00 m3

FLUID VOLUMES		RIG HOURS	
TUBING	11.90 m3	DAILY	24.00
ANNULUS	72.10 m3	PREVIOUS	109.00
CASING	88.40 m3	CUMULATIVE	133.00

WEATHER: OVERCAST- 19°C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 4477

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/13
DAY #: 6

REMARKS

HOISTED WIRELINE. RIGGED DOWN ALL RELATED EQUIPMENT. PRESSURE TESTED ANNULUS AND PACKER TO 21 MPa WHILE MONITORING TBG - GOOD SOLID 10 min TEST. RIGGED IN ALL SWAB RELATED EQUIPMENT, PULLED A TOTAL OF 12 SWABS TO RECOVER 8.0 m3 3% KCL H2O (PUTS FLUID LEVEL @ 1800 m FROM SURFACE).

* WE THEN PROCEEDED TO LAY OUT THE LUBRICATOR AND RELATED SWAB EQUIPMENT AND NOTICED THAT THE RUBBER FROM THE SWAB CUP WAS COMPLETELY GONE AND ONLY THE STEEL INSERT REMAINED. THE INSERT SHOWED NO CLEAR SIGNS OF PROPER GLUEING AS THERE WAS ONLY A VERY SMALL PORTION OF RUBBER LEFT ON THE INSERT.

(20:00) WAITING FOR BAKER REPRESENTATIVE TO ARRIVE. SHIFT CHANGE.

(20:00) HELD SAFETY MEETING W/ NIGHT CREW.

PUMP 8.0 M3 3% KCL WATER BACK INTO THE TUBING.

PREPARE TO RELEASE ON/OFF CONNECTOR FROM PACKER.

RIGGED TO CIRCULATE SWAB CUP RUBBER OUT OF THE TUBING.

BAKER REPRESENTATIVE ARRIVED ON LEASE @ 22:30 HOURS.

HELD SAFETY MEETING AND DISCUSSED PROCEDURE TO RECOVER RUBBER FROM TUBING.

PREPARE TO CIRCULATE OUT SWAB RUBBER TO 24:00 HOURS 1999.02.12.

CD 00/01

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

NEB

WELLNAME	CDN FOREST ET AL FLETT RAPIDS I-61	DATE	99/02/12
LOCATION	300-161-6050-12315-0	DAY	5
OBJECTIVE	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AGE	994504
TCP DEPTH	2660.00 mKB	AGE-1	1371000
DATE	2640.50 mKB	CASING	244.5 mm
FORMATION	UPPER ARNICA	TUBING	88.9 mm
FORMATION		PERFORATIONS	2311.0 to 2318.0 mKB
		PERFORATIONS	to mKB
		RIG	CENALTA WELL SERVICE

PRESENT OPERATION: RIH WITH TCP ASSEMBLY

PAID/EST. DAY OPERATION	WTF	0.0 KPa	SICP	0.0 KPa	CODE	COMPANY	COST
1999.02.11 @ 00:00 HOURS:					-	PAJAK	1500
198 JOINTS IN HOLE. ESTABLISH CIRCULATION					-	CENALTA WELL	8000
BEFORE GOING INTO LINER. RUN IN HOLE WITH					-R	BEAVER ENT	3800
ANOTHER 6 JOINTS. WEIGHT INDICATOR ONLY					-R	MUSTANG RENTALS	157
FLICKERED WHEN ENTERING THE LINER. WORKED					-R	DESTINY RENTALS	102
MILL AND SCRAPER UP AND DOWN THROUGH LINER					-R	DUNVEGAN RNTLS	334
TOP SEVERAL TIMES. ESTABLISHED CIRCULATION					-R	NEW BEGINNING	185
AND CIRCULATED BOTTOMS UP WHILE REMOVING THE					-R	TEL/FAX/TELEX	150
THREAD PROTECTORS FROM LAST ROW OF TUBING.					-R	MCCLELLANDS	1617
PROTECTORS ARE HARD TO GET OFF, DUE TO ICE					-R	D.C ENERGY	390
AND COLD. CONTINUED TO PICK UP, DRIFT AND					-R	CIRCLE T RENTAL	110
RUN IN HOLE WITH TUBING. TUBING STARTED TO					-	BEAVER ENT	350
HAND UP OCCASIONALLY, AFTER JOINT #231.					-	SEMANFREE MED	400
SUSPECT TUBING COLLARS ARE HANGING UP ON					-	NORWARD TESTERS	3774
LINER TOP, AS IT TAGS IN THE SAME PLACE					-	COMPUTALOG	20460
EVERYTIME. HAVE TO ROTATE THE TUBING WITH					-S	ALL CLN FLUIDS	713
THE TONGS WHEN IT HANGS UP, AND THEN THE					-	COMPASS TRANSFER	2520
TUBING DROPS. RUNNING IN SLOWLY. TAGGED					-		
PBTB WITH 4.0m IN ON JOINT #279 @ 2640.46mKB					-		
LAID DOWN TAG JOINT. RIGGED UP TO CIRCULATE					-		
HOLE OVER TO 3% KCL.					-		
08:00 HOURS:					-		
278 JOINTS IN HOLE. SHIFT CHANGE.					-		
08:00 HOURS:					-		
HELD DAILY DISCUSSION AND SAFETY MEETING					-		
WITH ALL ONSITE PERSONNEL. FUNCTION TESTED					-		
ALL EMERGENCY AIR KILLS INCLUDING REMOTE					-		
BOPs. REVERSE CIRCULATED WELL CLEAN WITH					-		
100m3 3% KCL H2O (RETURNS WERE STILL SOME					-		
WHAT DIRTY SO WE CIRCULATED LONGER). RIGGED					-		
DOWN ALL CIRCULATING RELATED EQUIPMENT.					-		
PULLED AND LAID OUT 38-88.9mm TUBING JOINTS					-		
ONTO RACKS. PULLED AND STOOD 240-88.9mm					-		
DAILY COST:							44562
PREVIOUS COST:							146556
CUMULATIVE COST:							191118

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	25.00 m3	145.00 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Swab	hrs	0.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	m3	0.00 m3	0.00 m3
WATER BASED	m3	0.00 m3	105.00 m3

FLUID VOLUMES		RIG HOURS	
TUBING	11.90 m3	DAILY	24.00
ANNULUS	72.10 m3	PREVIOUS	85.00
CASING	88.40 m3	CUMULATIVE	109.00

WEATHER: CLEAR -22 C
ROADS: SNOW COVERED

WELL SITE SUPERVISOR: WEISHAAR/KITTELSON

CD 04/77

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELL NAME: CDN FOREST ET AL PLETT RAPIDS I-61
LOCATION: 300-T61-6050-12315-0

DATE: 99/02/12
DAY: 5

REMARKS

TUBING JOINTS IN THE DERRICK. LAID OUT SCRAPER AND TAPERED MILL. FILLED HOLE WITH 5.0m³ 3% KCl H₂O. RIGGED IN COMPUTALOG WIRELINE RELATED EQUIPMENT TO REGULATIONS. HELD PRE-JOB DISCUSSION WITH CREW. MADE UP AND RAN IN HOLE WITH SECTOR BOND-CR-CCL TOOL (HIGHSPEED OVERVIEW) TO TAG PBTD @ 2640mKB. PULLED STRIP FROM PBTD-1887mKB CORRELATING TO COMPUTALOG SPECTRAL PE DENSITY COMPENSATED NEUTRON LOG DATED 98/12/22.

20:00 HOURS: SHIFT CHANGE.

20:00 HOURS:

HELD SAFETY MEETING WITH NIGHT CREW. PULLED 7.0 MPa PRESSURE PASS FROM 2400mKB TO 1875mKB. PULLED LOG FROM 1350-1145mKB, LOOKING FOR CEMENT TOP. DID NOT SEE DEFINITE CEMENT TOP. RIGGED DOWN LOGGERS. REMOVED WIRELINE FLANGE FROM BOPS.

PREPARE TCP ASSEMBLY AS FOLLOWS:

127mm x 7.0m ERHSC LOADED WITH 39 GRAM DP HIGH TEMP CHARGES, 60 DEGREE PHASING AND 17 SPM = 7.0m, BLANK GUN = 0.66m, FIRING HEAD = 0.4m, 73mm PUP = 3.1m, 73mm x 88.9mm X/O = 0.24m, FILL/FLOW SUB = 0.22m, SEP. SUB = 0.52m, 88.9mm PUP = 1.26m, OTIS X/N WITH 69.85mm ID AND 66.93mm NO-GO = 0.42m, 2-88.9mm PUP = 3.09m & 3.08m, PERFORATED 88.9mm PUP = 3.10m, "X" NIPPLE WITH 69.85mm ID = 0.38m, 2-88.9mm PUPS = 3.08 & 3.10m, 177.8mm BAKER RETRIEVABLE PACKER = 2.06m, ON/OFF WITH 69.85mm PROFILE = 0.77m, 88.9mm PUP = 1.86m, 1 JOINT 88.9mm TUBING = 9.20m, RA SUB = 0.15m (0.05m FROM SOURCE TO BOTTOM). FROM RA SOURCE TO TOP SHOT = 36.59m.

STARTED TO RUN IN HOLE WITH TCP ASSEMBLY TO 24:00 HOURS 1999.02.11.

Pressure lost liner lap to 21 mpa

CD 11/17



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61	DATE:	99/02/11
LOCATION:	300-I61-6050-12315-0	DAY #:	4
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.	AFE #:	994504
TOT. DEPTH:	2660.00 mKB	AFE #:	1371000
PSTD:	2640.50 mKB	CASING:	244.5 mm
FORMATION:	UPPER ARNICA	TUBING:	88.9 mm
FORMATION:		RIG:	CENALTA WELL SERVICE
		PERFORATIONS:	2311.0 to 2318.0 mKB
		PERFORATIONS:	to mKB

PRESENT OPERATION: RIH WITH TAPERED MILL, 177.8mm CASING SCRAPER & 88.9mm TUBING

PREVIOUS DAY OPERATION: SITP:	0.0 KPa	SICP:	0.0 KPa	CODE	COMPANY	COST
1999.02.10 @ 00:00 HOURS:				-	PAJAK	1500
TRIED UNSUCCESSFULLY TO LATCH ONTO BRIDGE				-	CENALTA WELL	8000
PLUG. TRIED CIRCULATING (REVERSE AND				-R	BEAVER ENT	3800
FORWARD). WHEN GOING ONTO THE BRIDGE PLUG,				-R	MUSTANG RENTALS	157
THE TUBING WILL "J" AS NORMAL. SET DOWN UP				-R	DESTINY RENTALS	102
TO 10,000 daN ON PLUG. HELD RIGHT HAND				-R	DUNVEGAN RNTLS	334
TORQUE. AS SOON AS TUBING WEIGHT RETURNS				-R	NEW BEGINNING	185
WHEN PULLING UP, TORQUE IS LOST. WHEN TALK-				-R	TEL/FAX/TELEX	150
ING TO THE HALLIBURTON MAN WHO SET THE PLUG,				-R	McCLELLANDS	492
HE INDICATED HE ALSO HAD TROUBLE SLIPPING				-R	D.C ENERGY	780
OFF WHEN HE PULLED TENSION INTO THE PLUG.				-R	STREPER CTCTNG	-750
02:00 HOURS:				-	BEMANFREE MED	400
STARTED TO HOIST TO CHECK OVERSHOT. SLOW				-	NORWARD TESTERS	2710
GOING, AS BLOCKS ARE DROPPING SLOWLY.				-	HALLIBURTON	2700
06:00 HOURS:				-S	ICG PROPANE	4490
OUT OF HOLE. OVERSHOT SHOWS MARKS WHERE IT				-		
ENGAGES THE LUGS ON THE RETRIEVING HEAD				-		
IT LOOKS OK.				-		
08:00 HOURS: SHIFT CHANGE				-		
08:00 HOURS:				-		
MADE UP. RAN IN HOLE WITH HALLIBURTON MODEL				-		
3-L RETRIEVING TOOL, 127-88.9mm TUBING				-		
JOINTS TO TAG BRIDGE PLUG @ 1208.62mKB.				-		
SET 4000 daN COMPRESSION ON BRIDGE PLUG.				-		
RIGGED IN ALL CIRCULATING RELATED EQUIPMENT.				-		
REVERSE CIRCULATED WELL, 3 BOTTOMS UP.				-		
CONVENTIONAL PUMPED TO TRY AND LIFT ANY SUCH				-		
DEBRIS OFF OF RETRIEVING HEAD. HALLIBURTON				-		
SERVICE REP ARRIVED ON LOCATION @ 10:45 HRS.				-		
CONTINUED TO CIRCULATE ON TOP OF BRIDGE PLUG				-		
WHILE MONITORING RETURNS, DID NOT SEE ANY				-		
SOLIDS OR DEBRIS WHILE CIRCULATING. STOPPED				-		
PUMP. ROTATED TUBING STRING WITH POWER TONGS				-		
DAILY COST:						25050
PREVIOUS COST:						121506
CUMULATIVE COST:						146556

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	m3	120.00 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Swab	hrs	0.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	m3	0.00 m3	0.00 m3
WATER BASED	m3	0.00 m3	0.00 m3

FLUID VOLUMES		RIG HOURS	
TUBING	11.90 m3	DAILY	24.00
ANNULUS	72.10 m3	PREVIOUS	61.00
CASING	88.40 m3	CUMULATIVE	85.00

WEATHER: CLEAR -32* C
ROADS: SNOW COVERED

WELL SITE SUPERVISOR: WEISHAAR/KITTELSON

CD 04/97

PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/11
DAY #: 4

REMARKS

WHILE LOWERING RETRIEVING TOOL ONTO PLUG, TUBING STRING DROPPED APPROXIMATELY .30m AND TORQUED UP. PICKED UP ON TUBING STRING TO RELEASE. DID NOT SEE ANY PRESSURE BELOW BP. LET ELEMENT RELAX. LOWERED TUBING STRING TO 1211.76mKB, OK. HOISTED 127-88.9mm TUBING JOINTS, STRING PULLING 3000 daN OVER STRING WEIGHT FOR THE FIRST 20 JOINTS. LAID OUT RETRIEVING TOOL AND BRIDGE PLUG (WE WERE UNABLE TO RELEASE RETRIEVING TOOL FROM BP DUE TO DEBRIS THAT APPEARED TO BE GRAVEL/SAND/MUD IN THE RETRIEVING TOOL BODY). MADE UP AND RAN IN HOLE WITH 1-HOMCO 153.9mm TAPERED DRIFT MILL, 1-177.8mm CASING SCRAPER, 127-88.9mm TUBING JOINTS.

20:00 HOURS:

127 JOINTS IN HOLE. RIGGING UP TO SUCK BACK. SHIFT CHANGE.

20:00 HOURS:

HELD SAFETY MEETING WITH NIGHT CREW. CONTINUED TO RUN IN HOLE WITH 88.9mm TUBING, PICKING UP FROM CATWALK AND DRIFTING TUBING. SUCKING BACK DISPLACED WATER FROM CASING. RAN ANOTHER 71 JOINTS. TUBING BOTTOM NOW AT 1880mKB. ESTABLISHED CIRCULATION. CIRCULATED BOTTOMS UP WHILE BOTTOM ROW IS TALLIED.

24:00 HOURS:

198 JOINTS NOW IN HOLE.

END OF REPORT 1999.02.10 @ 24:00 HOURS.

CD 06/97



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61			DATE:	99/02/10
LOCATION:	300-I61-6050-12315-0			DAY #:	3
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.			AFE #:	994504
TOT. DEPTH:	2660.00 mKB	CASING:	244.5 mm	AFE #:	1371000
PSTD:	2640.50 mKB	TUBING:	88.9 mm	RIG:	CENALTA WELL SERVICE
FORMATION:	UPPER ARNICA		PERFORATIONS:	2311.0 to 2318.0 mKB	
FORMATION:			PERFORATIONS:	to mKB	

PRESENT OPERATION: TRYING TO LATCH ONTO BRIDGE PLUG.

PREVIOUS DAY OPERATION: SITP:	0.0 KPa	SICP:	0.0 KPa	CODE	COMPANY	COST
1999.02.09 @ 00:00 HOURS:				-	PAJAK	1500
PRESSURE TESTED LINES, RING GASKET, BLIND RAMS, PIPE RAMS AND TIW VALVES TO 2.0 MPa LOW AND 26.0 MPa HIGH. HAD TO RE-TIGHTEN FLANGE BOLTS TO STOP LEAKS. PRESSURE TESTED ANNULAR TO 2.0 MPa LOW AND 20.0 MPa. REMOVED DOGNOT. MADE UP HALLIBURTON RETRIEVING TOOL AND XOs. TALLIED, DRIFTED, PICKED UP AND RAN IN HOLE WITH RETRIEVING TOOL AND 88.9mm TUBING TO 08:00 HOURS.				-	CENALTA WELL	8000
28 JOINTS IN HOLE. SHIFT CHANGE.				-R	BEAVER ENT	3800
08:00 HOURS:				-R	MUSTANG RENTALS	157
HELD DISCUSSION AND SAFETY MEETING WITH ALL ONSITE PERSONNEL. FUNCTION TESTED ALL EMERGENCY AIR KILLS INCLUDING REMOTE BOPs. CONTINUED TO TALLY, DRIFT AND RUN IN HOLE WITH AN ADDITIONAL 99 JOINTS 88.9mm TUBING TO TAG HALLIBURTON MODEL 3-L RETRIEVABLE BRIDGE PLUG AT 1208.62mKB. ATTEMPTED TO LATCH ONTO BRIDGE PLUG. MADE SEVERAL ATTEMPTS, ALL UNSUCCESSFUL. RIGGED IN ALL CIRCULATING RELATED EQUIPMENT. REVERSE CIRCULATED HOLE CLEAN WHILE RECIPROCATING TUBING STRING. CONTINUED TO TRY AND LATCH ONTO BRIDGE PLUG AS PER HALLIBURTON INSTRUCTIONS BUT STILL WERE UNSUCCESSFUL. RIGGED IN TO CIRCULATE TO 20:00 HOURS. CREW CHANGE.				-R	DESTINY RENTALS	102
20:00 HOURS:				-R	DUNVEGAN RNTLS	334
HELD SAFETY MEETING. CONTINUED TRYING TO LATCH ONTO BRIDGE PLUG. TRIED CIRCULATING (REVERSE AND FORWARD) TO CLEAN UP ANY DEBRIS THAT MIGHT BE AROUND BRIDGE PLUG. YOU CAN				-R	NEW BEGINNING	185
				-R	TEL/FAX/TELEX	150
				-	BEAVER ENT	225
				-R	McCLELLANDS	492
				-S	McCLELLANDS	1208
				-	BEMANFREE MED	400
				-	NORWARD TESTERS	4778
				DAILY COST:		21331
				PREVIOUS COST:		100175
				CUMULATIVE COST:		121506

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	m3	120.00 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Swab	hrs	0.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	m3	0.00 m3	0.00 m3
WATER BASED	m3	0.00 m3	0.00 m3

FLUID VOLUMES	
TUBING	11.90 m3
ANNULUS	72.10 m3
CASING	88.40 m3

RIG HOURS	
DAILY	24.00
PREVIOUS	37.00
CUMULATIVE	61.00

WEATHER: CLEAR -25 C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 06/97



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME: CDN FOREST ET AL FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0

DATE: 99/02/10
DAY #: 3

REMARKS

SEE THE TUBING "J" ONTO PLUG. PLUG IS TAGGED SAME PLACE EVERY TIME.
CONTINUE ATTEMPTS TO LATCH ONTO BRIDGE PLUG TO 24:00 HOURS 1999.02.09.

CD 06/07



PAJAK ENGINEERING LTD.

Daily Completion/Workover Report

WELLNAME:	CDN FOREST ET AL FLETT RAPIDS I-61		DATE:	99/02/09	
LOCATION:	300-I61-6050-12315-0		DAY #:	2	
OBJECTIVE:	COMPLETE THE ABOVE POTENTIAL GAS WELL.		AFE #:	994504	
TOT. DEPTH:	2660.00 mKB	CASING:	244.5 mm	AFE #:	1371000
PBTD:	2640.50 mKB	TUBING:	88.9 mm	RIG:	CENALTA WELL SERVICE
FORMATION:	UPPER ARNICA	PERFORATIONS:	2311.0 to 2318.0 mKB		
FORMATION:		PERFORATIONS:	to mKB		

PRESENT OPERATION: PRESSURE TEST - PICKING UP PIPE AND RIH TO RETRIEVE BP

PREVIOUS DAY OPERATION: SITP:	0.0 KPa	SICP:	0.0 KPa	CODE	COMPANY	COST
1999.02.08 @ 08:00 HOURS:				-	PAJAK	1500
ARRIVED ON LOCATION. HELD DAILY DISCUSSION				-	CENALTA WELL	4000
AND SAFETY MEETING WITH ALL ONSITE				-R	BEAVER ENT	3800
PERSONNEL. CONTINUED TO RIG IN SERVICE RIG.				-R	MUSTANG RENTALS	157
STOOD AND LEVELLED DERRICK, ALL LINES				-R	DESTINY RENTALS	102
APPEARED TO BE OK THIS TIME. RIGGED IN				-R	DUNVEGAN RNTLS	334
RELATED ACCUMULATOR LINES AND BOOSTER PACK.				-R	NEW BEGINNING	185
INSTALLED 279.4mm SOUR SERVICE BOP STACK				-R	TEL/FAX/TELEX	150
COMPLETE WITH 279.4mm WORKING SPOOL,				-	BEAVER ENT	340
1-52.4mm x 35 MPa CHECK VALVE AND GATE VALVE				-	MOWHAWK PDCTS	1905
(PRIMARY SIDE), 2-35 MPa GATE VALVES				-	BEMANFREE MED	800
(SECONDARY SIDE). ALL WERE INSTALLED IN				-	NORWARD TESTERS	12750
INDIVIDUAL PIECES. FUNCTION TESTED ALL				-		
COMPONENTS.				-		
NOTE: THE 1-63m3 STREEPER RENTAL TANK THAT				-		
WAS DELIVERED 1999.02.07 HAD DEVELOPED A				-		
LEAK ONCE THE FLUID HAD WARMED UP, SO IT				-		
TOOK SOME EXTRA TIME TO RESEAL THE FLANGED				-		
ENTRANCE GATE.				-		
RIGGED IN WORKING FLOOR AND ALL RELATED				-		
HANDLING EQUIPMENT.				-		
SHUT IN CASING PRESSURE @ 24:00 HOURS -				-		
SLIGHT VACUUM.				-		
20:00 HOURS CREW CHANGE - HELD SAFETY				-		
MEETING. FINISHED RIGGING UP STAIRS AND "V"				-		
DOOR. TARPED IN BOPS AND INSTALLED HEATER.				-		
REPAIRED BROKEN FITTING ON FOSTER TONGS.				-		
HAD A HARD TIME REMOVING THE BROKED PIECE				-		
FROM THE TONGS. HAD TO THAW ICE FROM				-		
WELLHEAD BEFORE THE DOGNUT COULD BE LANDED				-		
FOR THE PRESSURE TEST. REMOVED THREAD					DAILY COST:	26023
PROTECTORS FROM TOP ROW OF TUBING. READY TO					PREVIOUS COST:	74152
PRESSURE TEST AT 24:00 HOURS 1999.02.08.					CUMULATIVE COST:	100175

RESERVOIR FLUID SUMMARY		
	DAILY	NEW FLUID CUMULATIVE
WATER	m3	120.00 m3
OIL/CONDENSATE	m3	0.00 m3
GAS FLARED	m3	0.00 m3
HOURS Flow/Swab	hrs	0.00 hrs

LOAD FLUID SUMMARY			
FLUID	RECOVERED		LEFT TO RECOVER
	DAILY	CUMULATIVE	
OIL BASED	m3	0.00 m3	0.00 m3
WATER BASED	m3	0.00 m3	0.00 m3

FLUID VOLUMES		
TUBING	11.90	m3
ANNULUS	72.10	m3
CASING	88.40	m3

BIG HOURS	
DAILY	16.00
PREVIOUS	21.00
CUMULATIVE	37.00

WEATHER: SNOWING - 25*C
ROADS: SNOW COVERED

WELLSITE SUPERVISOR: WEISHAAR/KITTELSON

CD 06/97

Daily Completion/Workover Report

PRESENT OPERATION: RESTAND DERRICK, N/UP BOPs, P/TEST. RIH WITH 88.9 mm THG & O/S

WEATHER: OVERCAST -17*C
ROADS: SNOWCOVERED
WELLSITE SUPERVISOR: B.WEISHAAR

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

DATE: 99/02/07

U.W. 3001616050123150

CPA NO.:

DAY: 86

OFFICE SUPERVISOR: Mickey Sutherland

LICENCE NO.: WID#1851

CONTRACTOR: Nabors Drlg.

KB: 262.5 m KB-GL: 7.5 m

SPUD DATE: 98/11/13 @ 12:15 hrs.

RIG #: 24E

GL: 255.0 m KB-CF: 6.9 m

RIG RELEASE: 99/01/18 @ 12:00 hrs.

WELL STATUS: POTENTIAL GAS

WEATHER: Clear

TEMP: -26 °C

FINAL TD: 2660.00 m

FORMATION: Camsell

Midnight DEPTH: 2640.65 m

PROGRESS: 2640.65 m

PBDT: 2640.50 m

FORMATION: Camsell

8:00 a.m. DEPTH: 2640.65 m

8:00 a.m. OPERATION: Rigging up Cenalta service rig

AFE #: A983002

AFE AMT: \$ 5747200

DAILY COST: \$ 5088

CUMULATIVE COST: \$ 4988052

B
H
A

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

WT. ON BIT: daN

ROTARY RPM:

STRING WT.: daN

DRILL PIPE O.D.:

THREAD:

DRILL COLLARS O.D.:

THREAD:

NO. IN HOLE:

TOTAL
ROTATING
HOURS: 699.75B
I
T
S

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.					REMARKS	
					1	2	3	IN	OUT			DRL	RMD	WT daN	RPM	I	O	D	L	B		
										0					-							
										0					-							
										0					-							

LAST PIPE TALLY:

BOARD:

CORRECTION: YES [] NO []

M
U
D

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Drid. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	CI ppm	Ca ppm	ALKALINITY		° C IN/OUT
															MFI	MFO	
	/				/	/											/
	/				/	/											/
CENTRIFUGE					DESILTER			DESANDER			DEGASSER			TOTAL MUD DUMPED			
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3					

P
U
M
P

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN		DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
											0.0	0.0		0.00

SURVEYS	TIME BREAKDOWN	MUD ADDITIVES
AZIMUTH ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m	TOTAL HOURS:	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/02/06 08:00 hours. Checked camp and sleeper, serviced camp and wellsite generators. Met with Mike Gonet & Harold Pearson and checked access to Cdn. Forest K-32. Returned to I-61 location and met with Blair Wiser the completion supervisor. Brought him up to speed on service company's ongoing rentals, and operation of phone system. Turned well

over to completions.

Report and costs terminate 1999.02.06 @ 24:00 hours

Final Report.

SUPERVISOR: D. Solberg/M. Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

DRILLING COST REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61						AFE #: A983002		
LOCA: 300-I61-6050-12315-0						PRESENT DEPTH: 2660 m		
Description	Date	Date	Date	Date	Date	5 DAY	PREV	TOTAL
	99/02/05	99/02/06				TOTAL	TOTAL	COST
INTERMEDIATE CASING m of 244 mm							236404	236404
PRODUCTION CASING m of 178 mm							121712	121712
SURFACE CASING m of 339 mm							168758	168758
DRILLING BITS							139688	139688
DAYWORK \$ /DAY							1074847	1074847
DIRECTIONAL DRILLING							198413	198413
FUEL							193309	193309
WATER	405					405	94076	94481
ENGINEERING/DESIGN							10800	10800
LEASE AND ACCESS								
– LICENCES & PERMITS								
– SURFACE LEASE & SURVEY							13000	13000
– ROAD & LEASE PREPARATION							153550	153550
– RESTORATION & CLEAN-UP								
RIG AND CAMP MOVE							447434	447434
DRILLING FLUIDS							399681	399681
BOILER							90800	90800
COMMUNICATIONS	150	150				300	14850	15150
CAMP AND CATERING	2800	2800				5600	323200	328800
CEMENT SERVICES								
– SURFACE							24612	24612
– INTERMEDIATE							70298	70298
– PRODUCTION/LINER							41114	41114
CORING AND ANALYSIS								
EQUIPMENT RENTALS	938	938				1876	152189	154065
DRILL STEM TESTS								
LOGGING							249540	249540
SAFETY SERVICES	400	400				800	63347	64147
SPECIAL SERVICES							43408	43408
TRUCKING							105200	105200
FIELD SUPERVISION								
– FOREMAN	800	800				1600	99200	100800
– GEOLOGIST							111075	111075
– SECOND MEN								
TRAVEL/ACCOMMODATION								
OVERHEAD								
Welding/tongs/vac truck							68753	68753
Crew/all/flights/vehicle							98412	98412
Wadeco							169801	169801
DAILY COST	5493	5088				10581	4977471	4988052
ACCUMULATED COST	4982964	4988052						

Account	Comment



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-I61-6050-12315-0

AFE #: A983002

PAGE: 1/10

DATE:

2/07

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: October, 1998																DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
S	Badger Rentals	100Bbl water tank	0	85	0	98/11/01																		
S	Calmont Leasing	Eng truck rental	0	75	0	98/10/28													U	U	U	U		
S	Destiny Oilfield	400 Bbl water tank	0	34	0	98/12/21																		Dewatering tank
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16																	Fresh water
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20																	Fuel spill tank
S	Dunvegan Rentals	Mud Log shack	961	0	165	0	98/11/09																99/01/22	
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30													U	U			
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																99/01/15	
D	Faster	Hydraulic jars	10159	0	390	0																	98/12/24	
D	Faster	Roller reamer	10023	0	35	0	98/12/24																99/01/15	
D	Faster	Roller reamer	10020	0	35	0	98/12/24																99/01/15	
D	Faster	Shock sub	10676	0	185	0	98/12/24																99/01/15	
D	Faster	Shock sub	10572	0	255	0																	98/12/24	
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																	
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																	
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																	
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																	
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																	
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																98/11/19	Transcontinental
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																98/11/19	Transcontinental
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																98/11/19	Transcontinental
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																	244.5 mm casing
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																	
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																	
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27												U	U	U	U	U	
S	New Beginning	2 Ash Bins		0	60	0	98/10/27												U	U	U	U	U	
S	New Beginning	2 Incinerators		0	110	0	98/10/27												U	U	U	U	U	
S	New Beginning	2 Rig mats		0	60	0	98/10/27												U	U	U	U	U	
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																	
S	New Beginning	Fuel storage tank		0	34	0	98/11/13																	
S	New Beginning	Rig phones		0	50	0	98/11/14																99/01/19	
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09																99/01/18	
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11																99/01/17	
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																99/01/21	Dewatering tank
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																99/01/17	
O	Weatherford	Fishing tools		0	63	63	98/11/26																	
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																99/01/15	
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																99/01/15	



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

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DATE

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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																Dewatering tank	
Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16																Fresh water	
Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20																Fuel spill tank	
Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09									U	U	U	U	U	U	99/01/22		
Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Faster	Hydraulic jars	10708	0	380	0	98/12/24															99/01/15		
Faster	Hydraulic jars	10159	0	390	0																98/12/24		
Faster	Roller reamer	10023	0	35	0	98/12/24															99/01/15		
Faster	Roller reamer	10020	0	35	0	98/12/24															99/01/15		
Faster	Shock sub	10676	0	185	0	98/12/24															99/01/15		
Faster	Shock sub	10572	0	255	0																98/12/24		
Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																	
Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																	
Faster Oilfield	NBR	10053	0	45	0	98/11/10																	
Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																	
Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																	
Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10															98/11/19	Transcontinental	
Faster Oilfield	X/O Sub	45	0	26	0	98/11/10															98/11/19	Transcontinental	
Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10															98/11/19	Transcontinental	
Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																244.5 mm casing	
Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																	
Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																	
New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	20 3X12 Planks		0	400	0	98/11/09																	
New Beginning	Fuel storage tank		0	34	0	98/11/13																	
New Beginning	Rig phones		0	50	0	98/11/14															99/01/19		
New Beginning Serv.	2" Flight pump		0	17	0	98/11/09									U	U	U	U	U	U	99/01/18		
Pason Systems Corp.	Pvt.		0	150	0	98/11/11															99/01/17		
Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21															99/01/21	Dewatering tank	
Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13															99/01/17		
Weatherford	Fishing tools		0	63	63	98/11/26																	
Whipstock	Monel / short	45-022	0	50	0	98/12/24															99/01/15		
Whipstock	Monel/single shot	15-068	0	260	0	98/12/24															99/01/15		



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

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DATE: 2/07

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998																	DATE OFF LEASE	REMARKS		
			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																					Dewatering tank
Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16					U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water
Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank
Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/22	
Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Faster	Hydraulic jars	10708	0	380	0	98/12/24																				99/01/15	
Faster	Hydraulic jars	10159	0	390	0																					98/12/24	
Faster	Roller reamer	10023	0	35	0	98/12/24																				99/01/15	
Faster	Roller reamer	10020	0	35	0	98/12/24																				99/01/15	
Faster	Shock sub	10676	0	185	0	98/12/24																				99/01/15	
Faster	Shock sub	10572	0	255	0																					98/12/24	
Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																	U	U	U		
Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10							U	U	U	U	U	U	U	U	U	U	U	U	U		
Faster Oilfield	NBR	10053	0	45	0	98/11/10																	U	U	U		
Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																	U	U	U		
Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																	U	U	U		
Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10	U	U	U	U	U															98/11/19	Transcontinental
Faster Oilfield	X/O Sub	45	0	26	0	98/11/10	U	U	U	U	U															98/11/19	Transcontinental
Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10	U	U	U	U	U															98/11/19	Transcontinental
Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																					244.5 mm casing
Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																					
Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																					
New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	20 3X12 Planks		0	400	0	98/11/09																					
New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/19	
New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/18	
Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/17	
Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																				99/01/21	Dewatering tank
Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																				99/01/17	
Weatherford	Fishing tools		0	63	63	98/11/26																	U	U	U	U	
Whipstock	Monel / short	45-022	0	50	0	98/12/24																				99/01/15	
Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																				99/01/15	



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 4/10

DATE: 2/07

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998																DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
D Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19													U	U	U	U		



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-I61-6050-12315-0

AFE #: A983002

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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: December, 1998															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																	
Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank	
Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water	
Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank	
Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/22		
Faster	Hydraulic jars	10708	0	380	0	98/12/24															99/01/15		
Faster	Hydraulic jars	10159	0	390	0									U	U	U	U	U	U	U	98/12/24		
Faster	Roller reamer	10023	0	35	0	98/12/24															99/01/15		
Faster	Roller reamer	10020	0	35	0	98/12/24															99/01/15		
Faster	Shock sub	10676	0	185	0	98/12/24															99/01/15		
Faster	Shock sub	10572	0	255	0			U	U	U	U	U				U	U	U	U	U	98/12/24		
Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10	U	U	U	U	U	U											
Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10	U	U	U	U	U	U											
Faster Oilfield	NBR	10053	0	45	0	98/11/10	U	U	U	U	U	U											
Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10	U																
Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10	U	U	U	U	U	U											
Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10															98/11/19	Transcontinental	
Faster Oilfield	X/O Sub	45	0	26	0	98/11/10															98/11/19	Transcontinental	
Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10															98/11/19	Transcontinental	
Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16													U	U	U	U	
Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16														U	U	U	U
Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																	
New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	20 3X12 Planks		0	400	0	98/11/09																	
New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/19		
New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/18		
Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/17		
Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21															99/01/21	Dewatering tank	
Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13															99/01/17		
Weatherford	Fishing tools		0	63	63	98/11/26	U	S	S	S	S	S	S	S	S	S	S	S	S	S			
Whipstock	Monel / short	45-022	0	50	0	98/12/24															99/01/15		
Whipstock	Monel/single shot	15-068	0	260	0	98/12/24															99/01/15		



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

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	SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: December, 1998																								DATE OFF LEASE	REMARKS
				MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Destiny Oilfield	400 BbL water tank		0	34	0	98/12/21							U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank				
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water				
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank				
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/22					
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																					99/01/15					
D	Faster	Hydraulic jars	10159	0	390	0		U	U	U	U	U	U	U	U	U													98/12/24				
D	Faster	Roller reamer	10023	0	35	0	98/12/24																						99/01/15				
D	Faster	Roller reamer	10020	0	35	0	98/12/24																						99/01/15				
D	Faster	Shock sub	10676	0	185	0	98/12/24																						99/01/15				
D	Faster	Shock sub	10572	0	255	0		U	U	U	U																		98/12/24				
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																										
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																										
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10						U	U																			
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																										
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																										
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																						98/11/19	Transcontinental			
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																						98/11/19	Transcontinental			
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																						98/11/19	Transcontinental			
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16	U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		244.5 mm casing				
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16	U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S						
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																										
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																										
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		99/01/19				
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		99/01/18				
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		99/01/17				
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																					99/01/21	Dewatering tank				
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																					99/01/17					
O	Weatherford	Fishing tools		0	63	63	98/11/26	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S						
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																					99/01/15					
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																					99/01/15					



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: December, 1998															DATE OFF LEASE	REMARKS	
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19	U	U	U	U	U	U												



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: January, 1999															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Destiny Oilfield	400 BbL water tank		0	34	0	98/12/21	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank	
Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water	
Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank	
Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/22		
Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Faster	Hydraulic jars	10708	0	380	0	98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/15		
Faster	Hydraulic jars	10159	0	390	0																98/12/24		
Faster	Roller reamer	10023	0	35	0	98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/15		
Faster	Roller reamer	10020	0	35	0	98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/15		
Faster	Shock sub	10676	0	185	0	98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/15		
Faster	Shock sub	10572	0	255	0																98/12/24		
Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																	
Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																	
Faster Oilfield	NBR	10053	0	45	0	98/11/10																	
Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																	
Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																	
Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10															98/11/19	Transcontinental	
Faster Oilfield	X/O Sub	45	0	26	0	98/11/10															98/11/19	Transcontinental	
Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10															98/11/19	Transcontinental	
Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																244.5 mm casing	
Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																	
Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																	
New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	20 3X12 Planks		0	400	0	98/11/09																	
New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/19		
New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/18		
Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/17		
Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/21	Dewatering tank	
Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13															99/01/17		
Weatherford	Fishing tools		0	63	63	98/11/26	S	S	S														
Whipstock	Monel / short	45-022	0	50	0	98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/15		
Whipstock	Monel/single shot	15-068	0	260	0	98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/15		



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	SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: January, 1999																								DATE OFF LEASE	REMARKS
				MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank				
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water				
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank				
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U														99/01/22					
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																					99/01/15					
D	Faster	Hydraulic jars	10159	0	390	0																						98/12/24					
D	Faster	Roller reamer	10023	0	35	0	98/12/24																					99/01/15					
D	Faster	Roller reamer	10020	0	35	0	98/12/24																					99/01/15					
D	Faster	Shock sub	10676	0	185	0	98/12/24																					99/01/15					
D	Faster	Shock sub	10572	0	255	0																						98/12/24					
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																										
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																										
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																										
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																										
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																										
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																					98/11/19	Transcontinental				
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																					98/11/19	Transcontinental				
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																					98/11/19	Transcontinental				
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																						244.5 mm casing				
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																										
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19				U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																										
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U																	99/01/19					
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U																		99/01/18					
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U																			99/01/17					
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21	U	U	U	U	U	U															99/01/21	Dewatering tank				
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																					99/01/17					
O	Weatherford	Fishing tools		0	63	63	98/11/26																										
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																					99/01/15					
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																					99/01/15					



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-I61-6050-12315-0

AFE #: A983002

PAGE: 10/10

DATE: /07

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: February, 1999															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
S	Badger Rentals	100Bbl water tank	0	85	0	98/11/01	U	U	U	U	U	U											
S	Calmont Leasing	Eng truck rental	0	75	0	98/10/28	U	U	U	U	U	U											
S	Destiny Oilfield	400 Bbl water tank	0	34	0	98/12/21	U	U	U	U	U	U											
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U										Dewatering tank
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U										Fresh water
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09															99/01/22	Fuel spill tank
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U										
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24															99/01/15	
D	Faster	Hydraulic jars	10159	0	390	0																98/12/24	
D	Faster	Roller reamer	10023	0	35	0	98/12/24															99/01/15	
D	Faster	Roller reamer	10020	0	35	0	98/12/24															99/01/15	
D	Faster	Shock sub	10676	0	185	0	98/12/24															99/01/15	
D	Faster	Shock sub	10572	0	255	0																98/12/24	
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10															98/11/19	Transcontinental
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10															98/11/19	Transcontinental
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10															98/11/19	Transcontinental
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																244.5 mm casing
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19	U	U	U	U	U	U										
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U										
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U										
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U										
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U										
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U										
S	New Beginning	Rig phones		0	50	0	98/11/14															99/01/19	
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09															99/01/18	
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11															99/01/17	
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21															99/01/21	Dewatering tank
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13															99/01/17	
O	Weatherford	Fishing tools		0	63	63	98/11/26																
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24															99/01/15	
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24															99/01/15	



DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-I61-6050-12315-0

AFE #: A983002

PAGE: 11/10

DATE:

:/07

Total cost, surface:	112407
down-hole:	39499
other:	2394
all:	154300

DRILLING RENTAL EQUIPMENT SUMMARY - Surface/Downhole sequence

Date: 99/02/07, 06:25

CDN. FORE al FLETT RAPIDS I-61
300-I61-6050-12315-0

SURF D HOLE	ITEM	SUPPLIER	SERIAL #	DAILY COST	STANDBY COST	MIN COST	DATE RECEIVED-TICKET	DATE RETURNED-TICKET	DAYS USED	TO CO
S	1 Garbage Bin	New Beginning		70	0	0	98/10/27 4610		103	
S	100Bbl water tank	Badger Rentals		85	0	0	98/11/01 5992		98	
S	2 Ash Bins	New Beginning		60	0	0	98/10/27 4610		103	
S	2 Incinerators	New Beginning		110	0	0	98/10/27 4610		103	1
S	2 Rig mats	New Beginning		60	0	0	98/10/27 4610		103	
S	2" Flight pump	New Beginning Serv.		17	0	0	98/11/09 63321	99/01/18	71	
S	20 3X12 Planks	New Beginning		400	0	0	98/11/09 63321		1	
S	400 Bbl water tank	Destiny Oilfield		34	0	0	98/12/21 25982		48	
S	400 Bbl water tank	Streepier Contracting	501	26	0	0	98/12/21 25982	99/01/21 0576	32	
S	400Bbl water tank	Destiny Oilfield	404	34	0	0	98/11/16 0301		79	
S	42kw Genset&fuel tank	Mustang Rentals		157	0	0	99/01/19		19	
S	400Bbl water tank	Destiny Oilfield		34	0	0	98/11/20 0302		83	
S	9 5/8 350 t elevators	Lory Oilfield Rentals	L-1808	190	150	950	98/12/16 15272		5	
S	9 5/8 350 t spider	Lory Oilfield Rentals	L-1807	190	150	950	98/12/16 15272		5	
S	Eng truck rental	Calmont Leasing		75	0	0	98/10/28		102	
S	Fuel storage tank	New Beginning		34	0	0	98/11/13 3601		85	
S	Mud log shack	Dunvegan Rentals	961	165	0	0	98/11/09 63321	99/01/22	75	1
S	Pvt.	Pason Systems Corp.		150	0	0	98/11/11 5824	99/01/17 6256	67	1
S	Rig phones	New Beginning		50	0	0	98/11/14	99/01/19	67	
S	Wellsite shack	Dunvegan rentals	984	185	0	0	98/10/30 63317		100	1
O	Fishing tools	Weatherford		63	63	0	98/11/26 15228		5	
D	3PT roller reamer	Faster Oilfield	10050	45	0	0	98/11/10 15210		9	
D	88.9mm Dp&tools	Weatherford		1654	0	0	99/01/13 15374	99/01/17 16766	1	
D	Hydraulic jars	Faster	10159	390	0	0		98/12/24 15292	17	
D	Hydraulic jars	Faster	10708	380	0	0	98/12/24 15272	99/01/15 15374	16	
D	Hydraulic jars	Faster Oilfield	10158	390	0	0	98/11/10 15210		15	
D	Monel / short	Whipstock	45-022	50	0	0	98/12/24 15272	99/01/15 15374	13	
D	Monel/single shot	Whipstock	15-068	260	0	0	98/12/24 15272	99/01/15 15374	13	
D	Monel/single shot	Whipstock Systems	17-004	450	0	0	98/11/19 15212		10	
D	NBR	Faster Oilfield	10053	45	0	0	98/11/10 15210		11	
D	Roller reamer	Faster	10020	35	0	0	98/12/24 15272	99/01/15 15374	13	
D	Roller reamer	Faster	10023	35	0	0	98/12/24 15272	99/01/15 15374	13	
D	Shock sub	Faster	10676	185	0	0	98/12/24 15272	99/01/15 15374	13	
D	Shock sub	Faster	10572	255	0	0		98/12/24 15292	15	
D	Shock Tool	Faster Oilfield	10573	255	0	0	98/11/10 15210		4	
D	Stabilizer	Faster Oilfield	10304	75	0	0	98/11/10 15210		9	
D	Stabilizer	Faster Oilfield	2565	150	0	0	98/11/10 15187	98/11/19 15210	5	
D	X/O Sub	Faster Oilfield	45	26	0	0	98/11/10 15187	98/11/19 15210	5	
D	X/O Sub	Faster Oilfield	4157	28	0	0	98/11/10 15187	98/11/19 15210	5	

Total cost, surface: 11
down-hole: 3
other:
all: 15



SERVICE ORDER RECORD

W	ME	CDN. FOREST et al FLETT RAPIDS I-61	DATE	99/01/21
L	N	300-I61-6050-12315-0		

NUMBER	DATE	COMPANY	AMOUNT	SERVICE
137734	99/01/21	SWANBERG TRUCKING	25035.00	TEAR OUT NABORS 24E
0576	99/01/21	SOUCIE TRANSPORT	1872.50	HAUL 400 BBL TANK
9901207	99/01/21	PREMIUM INSPECTION	20362.82	INSP/DRILL PIPE
122418	99/01/24	MULLEN TRUCKING	190000.00	BACKHAUL NABOR'S 24E
5762	99/01/27	H L POWELL	12500.00	TRANS/MUD TO RACKSITE
7619	99/01/27	BADGER RENTALS	6625.00	MUD BLG RNT&DEMABILIZ
16778	99/01/27	TRANSCONTINENTAL	3780.00	DEMOB/ MUD BLDG
7620	99/01/27	BADGER RENTALS	2799.45	100 BBL WTR/TNK RENT
30167	99/01/28	FORMULA TRANSPORT	1150.00	HAUL 4 MUD BLDG MATS
126529	99/01/28	FT.LIARD FUEL CENTRE	384.31	FUEL
6275	99/01/28	BEAVER ENT. LTD.	127.50	DELIVER FUEL
1509	99/01/29	DUNVEGAN RENTALS	10020.55	WELLSITE RENTALS
1554	99/01/29	NEW BEGINNING	12364.92	RENTALS
20049	99/01/29	MUSTANG RENTALS	2326.74	42KW GEN SET RENTAL
246655	99/01/31	BEMANFREE INDUSTRIAL	13589.00	FIRST AID SERVICES
2783637	99/01/31	ICG PROPANE	1880.71	PROPANE DELIVERY
1081	99/02/01	DESTINY RENTALS	3554.54	(3) TANK RENTALS
126588	99/02/04	FT.LIARD FUEL CENTRE	783.00	FUEL
6513	99/02/04	BEAVER ENT. LTD.	170.00	DELIVER FUEL
4983	99/02/05	BEAVER ENT. LTD.	405.00	DELIVER FRESH WATER

Each service order issued for this well must be recorded on this table

DAILY DRILLING REPORT

WFO NAME: CDN. FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/02/06	
U. 300I616050123150		CPA NO.:		DAY: 85	
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851			
CONTRACTOR: Nabors Drlg.		KB: 262.5 m KB-GL: 7.5 m		SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		RIG RELEASE: 99/01/18 @ 12:00 hrs.	
WELL STATUS: POTENTIAL GAS					
WEATHER: Light flurries		TEMP: -17 °C		FINAL TD: 2660.00 m FORMATION: Camsell	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		PBDT: 2640.50 m FORMATION: Camsell	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Oversee operations. Prepare to move in service rig.			

APE #: A983002 APE AMT: \$ 5747200 DAILY COST: \$ 5493 CUMULATIVE COST: \$ 4982964

B
H
A

LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:						TOTAL ROTATING HOURS: 699.75
WT. ON BIT: daN ROTARY RPM: STRING WT.: daN						
DRILL PIPE O.D.: THREAD: DRILL COLLARS O.D.: THREAD: NO. IN HOLE:						

B
I
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S

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT							REMARKS	
					1	2	3	IN	OUT			DRL	RMD	WT daN	RPM	I	O	D	L	B	G	O	R	
										0				-										
										0				-										
										0				-										

LAST PIPE TALLY:

BOARD:

CORRECTION: YES [] NO []

M
U
D

Viscosity Sec/L	DENSITY IN/OUT	pH	WT cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Dried Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	CI ppm	Ca ppm	ALKALINITY		°C	
	/				/	/										MFI	MFO	IN/OUT
	/				/	/												/
	/				/	/												/
CENTRIFUGE			DESILTER			DESANDER			DEGASSER			TOTAL MUD DUMPED						
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3						

P
U
M
P

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
											0.0	0.0		0.00

SURVEYS	TIME BREAKDOWN	MUD ADDITIVES
AZIMUTH ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m ° @ m	TOTAL HOURS:	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

99/02/05 08:00 hours. Checked camp and sleeper, serviced camp and wellsite generators. Two service rig tower light systems arrived on location @ 11:00 hours. Took rental truck to Ft. Liard for fuel, also took medic in for supplies. Talked to Blair Wiser, he said service rig would be leaving Ft. Nelson Saturday morning and Blair would arrive on

location 14:00 -15:00 hours, 1999.02.06.
This report to 24:00 hours 1999.02.05.

SUPERVISOR: D. Solberg/M. Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

NAME: CDN FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/02/05	
3001616050123150		CPA NO.:		DAY: 84	
OFFICE SUPERVISOR: Micokey Sutherland		LICENCE NO.:		WDM1851	
CONTRACTOR: Nabors Drlg.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.	
				WELL STATUS: POTENTIAL GAS	
WEATHER: Overcast		TEMP: -28 °C		FINAL TD: 2660.00 m	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		FORMATION: Camsell	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Oversee operations. Prepare for Service Rig arrival.		PBDT: 2640.50 m	
				FORMATION: Camsell	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 6041 CUMULATIVE COST: \$ 4977471

B
H
A

					TOTAL ROTATING HOURS: 699.75	
LENGTH:	0.00 m	WT. BELOW JARS:	daN	JAR HRS:	JAR SERIAL #:	
WT. ON BIT:	daN	ROTARY RPM:	STRING WT.:		daN	
DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:		NO. IN HOLE:	

BITS

BIT NO	SIZE mm	NAME	SERIAL #	TYPE	ROCKS - mm			DEPTH		MTES	MTES PER HOUR	HOURS ON BIT		MT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			ORE	IND	FT/LN	RPM	1	2	3	4	5	6	7	8
										0					-								
										0					-								
										0					-								

LAST PIPE TALLY:

BOARD:

CORRECTION: YES [] NO []

Flowrate Sec/L	DESOLTER IN/OUT	pH	SR mg/lb/dry	FC mm	PV/VP	GELS O/W	Tot. Sol. kg/m3	Diss. Sol. kg/m3	SRSD kg/m3	PERCENTAGE kg/m3	LOW kg/m3	SR %	C ppm	C ppm	ALUMINUM MFI	MPS	*2 ML/HR
	/				/	/											/
	/				/	/											/
CENTRIFUGE					DESOLTER			DESOLTER			DESOLTER			TOTAL IN/OUT DESOLTER			
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	TOTAL					m3

MUD PUMP

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m³/MIN	MODEL	LINER mm	STROKE mm	SPM	m³/MIN	MPa	DP m³/MIN	DC m³/MIN	VELOCITY m/sec	WSP
											0.0	0.0		0.00

SURVEYS	TIME BREAKDOWN	MUD ADDITIVES
AZIMUTH		
• 0		
• 0		
• 0		
• 0		
• 0		
• 0		
• 0		
• 0		
• 0		
• 0		
• 0		
TOTAL HOURS:		

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.02.04 @ 00:00-24:00 Hours:

Checked camp and sleeper, serviced camp and wellsite generators. Had fuel delivered for generators and 500 gallon storage tank. Prepared all items for service rig arrival.

SUPERVISOR: D. Solberg/M. Rogerson PHONE #: (600) 700-2629 CALLING CARD#:
CD 06/97

PAJAK ENGINEERING LTD.

DRILLING COST REPORT

WELL NAME: CDW. FOREST et al FLETT RAPIDS 1-61						WFE #: A983002		
LOCATION: 300-161-6050-12315-0						PRESENT DEPTH: 2660 m		
Description	Date	Date	Date	Date	Date	5 DAY TOTAL	PREV. TOTAL	TOTAL COST
	99/01/31	99/02/01	99/02/02	99/02/03	99/02/04			
INTERMEDIATE CASING m of 244 mm							236404	236404
PRODUCTION CASING m of 178 mm							121712	121712
SURFACE CASING m of 339 mm							168758	168758
DRILLING BITS							139688	139688
DAYWORK \$ /DAY							1074847	1074847
DIRECTIONAL DRILLING							198413	198413
FUEL	1738				953	2711	190598	193309
WATER		350				350	93726	94076
ENGINEERING/DESIGN							10800	10800
LEASE AND ACCESS								
- LICENCES & PERMITS								
- SURFACE LEASE & SURVEY							13000	13000
- ROAD & LEASE PREPARATION							153550	153550
- RESTORATION & CLEAN-UP								
RIG AND CAMP MOVE							447434	447434
DRILLING FLUIDS							399681	399681
BOILER							90800	90800
COMMUNICATIONS	150	150	150	150	150	750	14100	14850
CAMP AND CATERING	2800	2800	2800	2800	2800	14000	309200	323200
CEMENT SERVICES								
- SURFACE							24612	24612
- INTERMEDIATE							70298	70298
- PRODUCTION/LINER							41114	41114
CORING AND ANALYSIS								
EQUIPMENT RENTALS	938	938	938	938	938	4690	147499	152189
DRILL STEM TESTS								
LOGGING							249540	249540
SAFETY SERVICES	400	400	400	400	400	2000	61347	63347
SPECIAL SERVICES							43408	43408
TRUCKING							105200	105200
FIELD SUPERVISION								
- FOREMAN	800	800	800	800	800	4000	95200	99200
- GEOLOGIST							111075	111075
- SECOND MEN								
TRAVEL/ACCOMMODATION								
OVERHEAD								
Welding/tongs/vac truck							68753	68753
Crew/all/flights/vehicle							98412	98412
Wadeco							169801	169801
DAILY COST	6846	5438	5088	5088	6041	28501	4948970	4977471
ACCUMULATED COST	4955816	4961254	4966342	4971430	4977471			

Account	Comment

SUPERVISOR: D. Solberg/M. Rogerson

PHONE #: (600) 700-2629

CCARD #:

PAJAK ENGINEERING LTD.

SERVICE ORDER RECORD

NAME	CDN. FOREST et al FLETT RAPIDS I-61	DATE	99/01/21
LOCATION	300-161-6050-12315-0		

NUMBER	DATE	COMPANY	\$ AMOUNT	SERVICE
137734	99/01/21	SWANBERG TRUCKING	25035.00	TEAR OUT NABORS 24E
0576	99/01/21	SOUCIE TRANSPORT	1872.50	HAUL 400 BBL TANK
9901207	99/01/21	PREMIUM INSPECTION	20362.82	INSP/DRILL PIPE
122418	99/01/24	MULLEN TRUCKING	190000.00	BACKHAUL NABOR'S 24E
5762	99/01/27	H L POWELL	12500.00	TRANS/MUD TO RACKSITE
7619	99/01/27	BADGER RENTALS	6625.00	MUD BLG RNT&DEMOLIZ
16778	99/01/27	TRANSCONTINENTAL	3780.00	DEMOL/ MUD BLDG
7620	99/01/27	BADGER RENTALS	2799.45	100 BBL WTR/TNK RENT
30167	99/01/28	FORMULA TRANSPORT	1150.00	HAUL 4 MUD BLDG MATS
126529	99/01/28	FT.LIARD FUEL CENTRE	384.31	FUEL
6275	99/01/28	BEAVER ENT. LTD.	127.50	DELIVER FUEL
1509	99/01/29	DUNVEGAN RENTALS	10020.55	WELLSITE RENTALS
1554	99/01/29	NEW BEGINNING	12364.92	RENTALS
20049	99/01/29	MUSTANG RENTALS	2326.74	42KW GEN SET RENTAL
246655	99/01/31	BEMANFREE INDUSTRIAL	13589.00	FIRST AID SERVICES
2783637	99/01/31	ICG PROPANE	1880.71	PROPANE DELIVERY
1081	99/02/01	DESTINY RENTALS	3554.54	(3) TANK RENTALS
126588	99/02/04	FT.LIARD FUEL CENTRE	783.00	FUEL
6513	99/02/04	BEAVER ENT. LTD.	170.00	DELIVER FUEL

Each service order issued for this well must be recorded on this table

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDM FOREST et al FLETT RAPIDS 1-61		LOCATION: 300-161-6050-12315-0		DATE: 99/02/04	
I.L.: 3001616050123150		CPA NO.:		DAY: 83	
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851			
CONTRACTOR: Nabors Drig.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.	
				WELL STATUS: POTENTIAL GAS	
WEATHER: Light flurries		TEMP: -20 °C		FINAL TD: 2660.00 m	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		FORMATION: Cansell	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Oversee operations. Wait on Service Rig to arrive.		PBDT: 2640.50 m	
				FORMATION: Cansell	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 5088 CUMULATIVE COST: \$ 4971430

B
H
A

										TOTAL ROTATING HOURS: 699.75	
LENGTH: 0.00 m		WT. BELOW JARS: daN		JAR HRS:		JAR SERIAL #:					
WT. ON BIT: daN		ROTARY RPM:		STRING WT.: daN							
DRILL PIPE O.D.:		THREAD:		DRILL COLLARS O.D.:		THREAD:				NO. IN HOLE:	

BITS

ENT. NO.	SIZE INCH	MAKE	SERIAL #	TYPE	NOZZLES OR			DEPTH		MTS	MTS PER HOUR	HOURS ON BIT		BY		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL	RND	WT/LB	RPM	F	G	D	I	S	G	O	R
										0					-								
										0					-								
										0					-								

LAST PIPE TALLY:

BOARD:

CORRECTION: YES [] NO []

**M
U
D**

Viscosity Sec/CL	DENSITY HR/OUT	PH	WFL cc/20min	FC mm	PV/TP	GELS O/10	TH. SOL kg/m3	DIL. SOL kg/m3	SAND kg/m3	BENTONITE kg/m3	LCR kg/m3	OR %	CI ppm	CS ppm	ALKALINITY		°C	
																NFI	NFO	IN/OUT
	/				/	/												/
	/				/	/												/
CENTRIFUGE					DESLYER			DESLANDER			DESLASER			TOTAL MUD DUMPED				
HR IN		kg/m3	OUT		kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	m3			

**P
U
M
P**

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINEAR mm	STROKE mm	SPM	m/min	MODEL	LINEAR cm	STROKE mm	SPM	m/min		° m/min	DC m/min	VELOCITY m/sec	HP
											0.0	0.0		0.00

[illegible]

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.02.03 @ 08:00 Hours:

checked camp and sleeper, serviced camp and wellsite generators. Wait on arrival of service rig. Inspected all fuel lines, fuel pumps and sewer lines to make sure everything is operational.

SUPERVISOR: D.Solberg/M.Rogerson **PHONE #:** (600) 700-2629 **CALLING CARD#:**
CD 94/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

L NAME: CDN. FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/02/03	
I.: 3001616050123150		CPA NO.:		DAY: 82	
OFFICE SUPERVISOR: Mickey Sutherland				LICENCE NO.: WID#1851	
CONTRACTOR: Nabors Drlg.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.	
				WELL STATUS: POTENTIAL GAS	
WEATHER: Overcast		TEMP: -23 °C		FINAL TD: 2660.00 m FORMATION: Camsell	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		PBDT: 2640.50 m FORMATION: Camsell	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Oversee operations. Wait on Service Rig arrival.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 5088 CUMULATIVE COST: \$ 4966342

B H A					TOTAL ROTATING HOURS: 699.75	
	LENGTH: 0.00 m	WT. BELOW JARS: dn	JAR HRS:	JAR SERIAL #:		
	WT. ON BIT: dn	ROTARY RPM:	STRING WT.: dn			
	DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:	

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		RPM		CUTTING STRUCT					REMARKS
					1	2	3	IN	OUT			DRL	RWD	MT/MIN	RPM	T	O	D	L	B	
										0					-						
										0					-						
										0					-						

LAST PIPE TALLY:						BOARD:		CORRECTION: YES [] NO []								
VIScosity Sec/L	DENSITY IN/OUT	pH	WT. cc/98wts	FC mm	PY/PV	GELS O/U	Tot. Sol. kg/m ³	DryL Sol. kg/m ³	SAND kg/m ³	BENTONITE kg/m ³	LCM kg/m ³	OE %	CI ppm	Ce ppm	ALKALINITY API WFO	P.C IN/OUT
/	/				/	/										/
/	/				/	/										/
CENTRIFUGE				DESILTER				DEASDER				DEGASER				TOTAL MUD DUMPED
HR IN	kg/m ³	OUT	kg/m ³	HR OUT	kg/m ³	HR OUT	kg/m ³	HR OUT	kg/m ³	HR OUT	kg/m ³	m ³				

PUMP NO. 1	TYPE				PUMP NO. 2	TYPE				PRESSURE PSI	ANGULAR VELOCITY		JET	
	MODEL	LINER INCH	STROKE INCH	RPM		MODEL	LINER INCH	STROKE INCH	RPM		OP RPM	DC RPM	VELOCITY FT/SEC	HP
											0.0	0.0		0.00

[illegible]

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
1999.02.02 @ 08:00 Hours. One side of the holding pit. When leaving for supper the

Checked over camp. Serviced camp and wellsite generators. A Beaver Enterprise 95 cat with ripper was brought out to I-61 location @ 10:30 hours and prepared lease for the arrival of service rig. The lease required ice build ups to be levelled, ruts filled in and putting up a small berm on

one side of the holding pit. When leaving for supper the cat operator was observed fueling up the equipment. When returning from supper the cat had been loaded on hi-boy trailer. When the driver was questioned that the job had not been completed, he said he was hauling the cat out because it was broken down. Asked what was wrong with the

SUPERVISOR: D. Solberg/M. Rogerson **PHONE #:** (600) 700-2629 **CALLING CARD#:**



PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61		DATE: 99/02/03
LOCATION: 300-I61-6050-12315-0	U.W.I.: 300I616050123150	
DAY: 82	DEPTH: 2640.65 m	PROGRESS: 2640.65 m CPA NO.:
WEATHER: Overcast		TEMP: -23 °c
8:00 a.m. OPERATION: Oversee operations. Wait on Service Rig arrival.		

DRILLING & GEOLOGICAL REMARKS (Cont'd)

cat, he replied it had a bent blade tilting arm. When the arm was checked by myself it looked to be not too much wrong with it. Shut down for night at 18:00 hours 1999.02.02.

REPORTED BY: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

CD 01/97

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS I-61		LOCATION: 300-I61-6050-12315-0		DATE: 99/02/01	
U.W. 300I616050123150		CPA NO.:		DAY: 80	
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: WID#1851		
CONTRACTOR: Nabors Drlg.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.	
			WELL STATUS: POTENTIAL GAS		
WEATHER: Overcast		TEMP: -23 °C		FINAL TD: 2660.00 m	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		FORMATION: Camsell	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Oversee operations. Wait on Service Rig arrival.		PBDT: 2640.50 m	
				FORMATION: Camsell	

AFE #: A983002 **AFE AMT:** \$ 5747200 **DAILY COST:** \$ 6846 **CUMULATIVE COST:** \$ 4955816

					TOTAL ROTATING HOURS: 699.75	
LENGTH:	0.00 m	WT. BELOW JARS:	daN	JAR HRS:	JAR SERIAL #:	
WT. ON BIT:	daN	ROTARY RPM:		STRING WT.:	daN	
DRILL PIPE O.D.:		THREAD:		DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:

[illegible]

LAST PIPE TALLY:

BOARD:

CORRECTION: YES [] NO []

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Dried. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI MFO	° C IN/OUT
	/				/	/										/
	/				/	/										/
CENTRIFUGE				DESILTER				DESANDER				DEGASSER				TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3		

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANNULAR VELOCITY		JET	
TYPE:					TYPE:									
MODEL	LINER mm	STROKE mm	SPM	m ³ /MIN	MODEL	LINER mm	STROKE mm	SPM	m ³ /MIN	MPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
											0.0	0.0		0.00

SURVEYS		TIME BREAKDOWN	MUD ADDITIVES
	AZIMUTH		
• 10	m		
• 10	m		
• 10	m		
• 10	m		
• 10	m		
• 10	m		
• 10	m		
• 10	m		
• 10	m		
• 10	m		
• 10	m		
		TOTAL HOURS:	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
1999-01-31 @ 08:00 Hours. I was out and filled camp, sleeper and wellsite units. Prepared

Checked out camp and sleeper to see if everything was in good working order including sewer drains. Serviced camp and wellsite generators. Harold Pearson with construction was out to check location and it was decided to get a small cat out to level the pad for the Service Rig. Propane truck

was out and filled camp, sleeper and wellsite units. Prepare all items for arrival of Service Rig and crews.

SUPERVISOR: D. Solberg/M. Rogerson PHONE #: (600) 700-2629 CALLING CARD#:



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 1 / 9

DATE: 99/02/01

	SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: October, 1998																								DATE OFF LEASE	REMARKS
				MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01																										
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28													U	U	U	U										
S	Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																										Dewatering tank
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16																										Fresh water
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20																										Fuel spill tank
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09																										99/01/22
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30															U	U										
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																										99/01/15
D	Faster	Hydraulic jars	10159	0	390	0																											98/12/24
D	Faster	Roller reamer	10023	0	35	0	98/12/24																										99/01/15
D	Faster	Roller reamer	10020	0	35	0	98/12/24																										99/01/15
D	Faster	Shock sub	10676	0	185	0	98/12/24																										99/01/15
D	Faster	Shock sub	10572	0	255	0																											98/12/24
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																										
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																										
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																										
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																										
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																										
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																										98/11/19
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																										98/11/19
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																										98/11/19
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																										244.5 mm casing
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																										
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																										
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27													U	U	U	U	U									
S	New Beginning	2 Ash Bins		0	60	0	98/10/27													U	U	U	U	U									
S	New Beginning	2 Incinerators		0	110	0	98/10/27													U	U	U	U	U									
S	New Beginning	2 Rig mats		0	60	0	98/10/27													U	U	U	U	U									
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																										
S	New Beginning	Fuel storage tank		0	34	0	98/11/13																										
S	New Beginning	Rig phones		0	50	0	98/11/14																										99/01/19
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09																										99/01/18
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11																										99/01/17
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																										99/01/21
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																										99/01/17
O	Weatherford	Fishing tools		0	63	63	98/11/26																										
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																										99/01/15
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																										99/01/15



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 2/ 9

DATE

2/01

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																	
Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16																Dewatering tank	
Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20																Fresh water	
Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09									U	U	U	U	U	U	U	Fuel spill tank	
Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Faster	Hydraulic jars	10708	0	380	0	98/12/24																99/01/22	
Faster	Hydraulic jars	10159	0	390	0																	99/01/15	
Faster	Roller reamer	10023	0	35	0	98/12/24																98/12/24	
Faster	Roller reamer	10020	0	35	0	98/12/24																99/01/15	
Faster	Shock sub	10676	0	185	0	98/12/24																99/01/15	
Faster	Shock sub	10572	0	255	0																	98/12/24	
Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																	
Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																	
Faster Oilfield	NBR	10053	0	45	0	98/11/10																	
Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																	
Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																	
Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																98/11/19	
Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																98/11/19	
Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																98/11/19	
Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																Transcontinental	
Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																Transcontinental	
Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																Transcontinental	
New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		244.5 mm casing	
New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	20 3X12 Planks		0	400	0	98/11/09													U				
New Beginning	Fuel storage tank		0	34	0	98/11/13														U	U		
New Beginning	Rig phones		0	50	0	98/11/14														U	U		
New Beginning Serv.	2" Flight pump		0	17	0	98/11/09									U	U	U	U	U	U	U	99/01/19	
Pason Systems Corp.	Pvt.		0	150	0	98/11/11												U	U	U	U	99/01/18	
Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																99/01/17	
Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																99/01/21	
Weatherford	Fishing tools		0	63	63	98/11/26																Dewatering tank	
Whipstock	Monel / short	45-022	0	50	0	98/12/24																99/01/17	
Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																99/01/15	



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-I61-6050-12315-0

AFE #: A983002

PAGE: 3 / 9

DATE

2/01

	SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998																								DATE OFF LEASE	REMARKS
				MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31										
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Destiny Oilfield	400 BbL water tank		0	34	0	98/12/21																										
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16					U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U					Dewatering tank	
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U					Fresh water	
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		99/01/22			Fuel spill tank	
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																						99/01/15				
D	Faster	Hydraulic jars	10159	0	390	0																							98/12/24				
D	Faster	Roller reamer	10023	0	35	0	98/12/24																						99/01/15				
D	Faster	Roller reamer	10020	0	35	0	98/12/24																						99/01/15				
D	Faster	Shock sub	10676	0	185	0	98/12/24																						99/01/15				
D	Faster	Shock sub	10572	0	255	0																							98/12/24				
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																			U	U	U					
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10								U	U	U	U	U	U	U	U	U	U	U	U	U						
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																			U	U	U					
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																			U	U	U					
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																			U	U	U					
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10	U	U	U	U	U																	98/11/19			Transcontinental	
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10	U	U	U	U	U																	98/11/19			Transcontinental	
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10	U	U	U	U	U																	98/11/19			Transcontinental	
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																									244.5 mm casing	
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																										
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																										
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																										
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		99/01/19				
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		99/01/18				
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		99/01/17				
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																						99/01/21			Dewatering tank	
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																						99/01/17				
O	Weatherford	Fishing tools		0	63	63	98/11/26																		U	U	U	U					
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																						99/01/15				
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																						99/01/15				



DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

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	SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: December, 1998															DATE OFF LEASE	REMARKS
				MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																Dewatering tank	
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water	
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank	
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/22		
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24															99/01/15		
D	Faster	Hydraulic jars	10159	0	390	0								U	U	U	U	U	U	U	U	98/12/24		
D	Faster	Roller reamer	10023	0	35	0	98/12/24															99/01/15		
D	Faster	Roller reamer	10020	0	35	0	98/12/24															99/01/15		
D	Faster	Shock sub	10676	0	185	0	98/12/24															99/01/15		
D	Faster	Shock sub	10572	0	255	0		U	U	U	U	U				U	U	U	U	U	U	98/12/24		
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10	U	U	U	U	U	U											
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10	U	U	U	U	U	U											
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10	U	U	U	U	U	U											
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10	U																
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10	U	U	U	U	U	U											
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10															98/11/19	Transcontinental	
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10															98/11/19	Transcontinental	
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10															98/11/19	Transcontinental	
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16												U	U	U	U	244.5 mm casing	
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16												U	U	U	U		
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																	
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																	
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/19		
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/18		
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/17		
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21															99/01/21	Dewatering tank	
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13															99/01/17		
O	Weatherford	Fishing tools		0	63	63	98/11/26	U	S	S	S	S	S	S	S	S	S	S	S	S	S			
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24															99/01/15		
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24															99/01/15		



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			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21							U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank
Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water
Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank
Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/22	
Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
Faster	Hydraulic jars	10708	0	380	0	98/12/24																					99/01/15		
Faster	Hydraulic jars	10159	0	390	0		U	U	U	U	U	U	U	U	U													98/12/24	
Faster	Roller reamer	10023	0	35	0	98/12/24																						99/01/15	
Faster	Roller reamer	10020	0	35	0	98/12/24																						99/01/15	
Faster	Shock sub	10676	0	185	0	98/12/24																						99/01/15	
Faster	Shock sub	10572	0	255	0		U	U	U	U																		98/12/24	
Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																							
Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																							
Faster Oilfield	NBR	10053	0	45	0	98/11/10						U	U																
Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																							
Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																							
Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																						98/11/19	Transcontinental
Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																						98/11/19	Transcontinental
Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																						98/11/19	Transcontinental
Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16	U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		244.5 mm casing
Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16	U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																							
New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	20 3X12 Planks		0	400	0	98/11/09																							
New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/19	
New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/18	
Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/17	
Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21							U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/21	Dewatering tank
Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																							



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			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
D Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19	U	U	U	U	U	U											



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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: January, 1999															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
S	Badger Rentals	100Bbl water tank	0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	Calmont Leasing	Eng truck rental	0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	Destiny Oilfield	400 Bbl water tank	0	34	0	98/12/21	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/22	
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/15	
D	Faster	Hydraulic jars	10159	0	390	0																98/12/24	
D	Faster	Roller reamer	10023	0	35	0	98/12/24	U	U	U	U	U	U	U	U	U						99/01/15	
D	Faster	Roller reamer	10020	0	35	0	98/12/24	U	U	U	U	U	U	U	U	U						99/01/15	
D	Faster	Shock sub	10676	0	185	0	98/12/24	U	U	U	U	U	U	U	U	U						99/01/15	
D	Faster	Shock sub	10572	0	255	0																98/12/24	
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10															98/11/19	Transcontinental
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10															98/11/19	Transcontinental
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10															98/11/19	Transcontinental
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																244.5 mm casing
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19																
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/19	
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/18	
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/17	
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21	U	U	U	U	U	U	U	U	U	U	U	U	U	U	99/01/21	Dewatering tank
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13															99/01/17	
O	Weatherford	Fishing tools		0	63	63	98/11/26	S	S	S													
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24	U	U	U	U	U	U	U	U	U						99/01/15	
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24	U	U	U	U	U	U	U	U	U						99/01/15	



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			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	Destiny Oilfield	400 BbL water tank		0	34	0	98/12/21	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U														99/01/22		
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																					99/01/15		
D	Faster	Hydraulic jars	10159	0	390	0																						98/12/24		
D	Faster	Roller reamer	10023	0	35	0	98/12/24																					99/01/15		
D	Faster	Roller reamer	10020	0	35	0	98/12/24																					99/01/15		
D	Faster	Shock sub	10676	0	185	0	98/12/24																					99/01/15		
D	Faster	Shock sub	10572	0	255	0																						98/12/24		
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																							
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																							
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																							
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																							
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																							
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																					98/11/19	Transcontinental	
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																					98/11/19	Transcontinental	
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																					98/11/19	Transcontinental	
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																						244.5 mm casing	
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																							
S	Mustang Rentals	42kw Genset&fuel tank		0	157	0	99/01/19				U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																							
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U																	99/01/19		
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U																		99/01/18		
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U																			99/01/17		
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21	U	U	U	U	U	U															99/01/21	Dewatering tank	
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																					99/01/17		
O	Weatherford	Fishing tools		0	63	63	98/11/26																							
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																					99/01/15		
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																					99/01/15		



DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-I61-6050-12315-0

AFE #: A983002

PAGE: 10/ 9

DATE: 2/01

Total cost, surface:	106779
down-hole:	39499
other:	2394
all:	148672

DRILLING RENTAL EQUIPMENT SUMMARY - Surface/Downhole sequence

Date: 99/02/01, 06:31

CDN. FOR al FLETT RAPIDS I-61
300-I61-6050-12315-0

SURF				DAILY STANDBY MIN			DATE		DATE	DAYS	TO
DHOLE	ITEM	SUPPLIER	SERIAL #	COST	COST	COST	RECEIVED-TICKET		RETURNED-TICKET	USED	CO
S	1 Garbage Bin	New Beginning		70	0	0	98/10/27 4610			97	
S	100Bbl water tank	Badger Rentals		85	0	0	98/11/01 5992			92	
S	2 Ash Bins	New Beginning		60	0	0	98/10/27 4610			97	
S	2 Incinerators	New Beginning		110	0	0	98/10/27 4610			97	1
S	2 Rig mats	New Beginning		60	0	0	98/10/27 4610			97	
S	2" Flight pump	New Beginning Serv.		17	0	0	98/11/09 63321	99/01/18		71	
S	20 3X12 Planks	New Beginning		400	0	0	98/11/09 63321			1	
S	400 Bbl water tank	Destiny Oilfield		34	0	0	98/12/21 25982			42	
S	400 Bbl water tank	Streeper Contracting	501	26	0	0	98/12/21 25982	99/01/21 0576		32	
S	400Bbl water tank	Destiny Oilfield	404	34	0	0	98/11/16 0301			73	
S	42kw Genset&fuel tank	Mustang Rentals		157	0	0	99/01/19			13	
S	400Bbl water tank	Destiny Oilfield		34	0	0	98/11/20 0302			77	
S	9 5/8 350 t elevators	Lory Oilfield Rentals	L-1808	190	150	950	98/12/16 15272			5	
S	9 5/8 350 t spider	Lory Oilfield Rentals	L-1807	190	150	950	98/12/16 15272			5	
S	Eng truck rental	Calmont Leasing		75	0	0	98/10/28			96	
S	Fuel storage tank	New Beginning		34	0	0	98/11/13 3601			79	
S	Mud log shack	Dunvegan Rentals	961	165	0	0	98/11/09 63321	99/01/22		75	1
S	Pvt.	Pason Systems Corp.		150	0	0	98/11/11 5824	99/01/17 6256		67	1
S	Rig phones	New Beginning		50	0	0	98/11/14	99/01/19		67	
S	Wellsite shack	Dunvegan rentals	984	185	0	0	98/10/30 63317			94	1
O	Fishing tools	Weatherford		63	63	0	98/11/26 15228			5	
D	3PT roller reamer	Faster Oilfield	10050	45	0	0	98/11/10 15210			9	
D	88.9mm Dp&tools	Weatherford		1654	0	0	99/01/13 15374	99/01/17 16766		1	
D	Hydraulic jars	Faster	10159	390	0	0		98/12/24 15292		17	
D	Hydraulic jars	Faster	10708	380	0	0	98/12/24 15272	99/01/15 15374		16	
D	Hydraulic jars	Faster Oilfield	10158	390	0	0	98/11/10 15210			15	
D	Monel / short	Whipstock	45-022	50	0	0	98/12/24 15272	99/01/15 15374		13	
D	Monel/single shot	Whipstock	15-068	260	0	0	98/12/24 15272	99/01/15 15374		13	
D	Monel/single shot	Whipstock Systems	17-004	450	0	0	98/11/19 15212			10	
D	NBR	Faster Oilfield	10053	45	0	0	98/11/10 15210			11	
D	Roller reamer	Faster	10020	35	0	0	98/12/24 15272	99/01/15 15374		13	
D	Roller reamer	Faster	10023	35	0	0	98/12/24 15272	99/01/15 15374		13	
D	Shock sub	Faster	10676	185	0	0	98/12/24 15272	99/01/15 15374		13	
D	Shock sub	Faster	10572	255	0	0		98/12/24 15292		15	
D	Shock Tool	Faster Oilfield	10573	255	0	0	98/11/10 15210			4	
D	Stabilizer	Faster Oilfield	10304	75	0	0	98/11/10 15210			9	
D	Stabilizer	Faster Oilfield	2565	150	0	0	98/11/10 15187	98/11/19 15210		5	
D	X/O Sub	Faster Oilfield	45	26	0	0	98/11/10 15187	98/11/19 15210		5	
D	X/O Sub	Faster Oilfield	4157	28	0	0	98/11/10 15187	98/11/19 15210		5	

Total cost, surface: 10
down-hole: 3
other:
all: 14

WE' NAME: CDN. FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/31	
U. 3001616050123150		CPA NO.:		DAY: 79	
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851			
CONTRACTOR: Nabors Drlg.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.	
		WELL STATUS: POTENTIAL GAS			
WEATHER: Clear		TEMP: -32 °C	FINAL TD: 2660.00 m	FORMATION: Camsell	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m	PBTD: 2640.50 m	FORMATION: Camsell	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Prepare for service rig arrival.			

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LENGTH:	0.00 m	WT. BELOW JARS:	daN	JAR HRS:	JAR SERIAL #:	HOURS:
WT. ON BIT:	daN	ROTARY RPM:		STRING WT.:	daN	
DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:			NO. IN HOLE:

BITS

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRL.	RMD	WTdaN	RPM	I	O	D	L	B	G	O	R
										0				—									
										0				—									
										0				—									

**M
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Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Dried Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI MFO	° C IN/OUT
	/				/	/										/
	/				/	/										/
CENTRIFUGE				DESILTER				DESANDER				DEGASSER				TOTAL MUD DUMPED
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3		

PUMP

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m ³ /MIN	MODEL	LINER mm	STROKE mm	SPM	m ³ /MIN		DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
											0.0	0.0		0.00

SURVEYS		TIME BREAKDOWN	MUD ADDITIVES
	AZIMUTH		
• 10	3		
• 10	3		
• 10	3		
• 10	3		
• 10	3		
• 10	3		
• 10	3		
• 10	3		
• 10	3		
• 10	3		
		TOTAL HOURS:	

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

TOTAL HOURS:

CD 06/97

DRILLING COST REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61						AFE #: A983002		
LOCAT: 300-161-6050-12315-0						PRESENT DEPTH: 2660 m		
Description	Date	Date	Date	Date	Date	5 DAY TOTAL	PREV. TOTAL	TOTAL COST
	99/01/26	99/01/27	99/01/28	99/01/29	99/01/30			
INTERMEDIATE CASING m of 244 mm							236404	236404
PRODUCTION CASING m of 178 mm							121712	121712
SURFACE CASING m of 339 mm							168758	168758
DRILLING BITS							139688	139688
DAYWORK \$ /DAY							1074847	1074847
DIRECTIONAL DRILLING							198413	198413
FUEL			512			512	190086	190598
WATER		420				420	93306	93726
ENGINEERING/DESIGN							10800	10800
LEASE AND ACCESS								
- LICENCES & PERMITS								
- SURFACE LEASE & SURVEY							13000	13000
- ROAD & LEASE PREPARATION							153550	153550
- RESTORATION & CLEAN-UP								
RIG AND CAMP MOVE							447434	447434
DRILLING FLUIDS		20513	1150			21663	378018	399681
BOILER							90800	90800
COMMUNICATIONS	150	150	150	150	150	750	13350	14100
CAMP AND CATERING	2800	2800	2800	2800	2800	14000	295200	309200
CEMENT SERVICES								
- SURFACE							24612	24612
- INTERMEDIATE							70298	70298
- PRODUCTION/LINER							41114	41114
CORING AND ANALYSIS								
EQUIPMENT RENTALS	938	938	938	938	938	4690	142809	147499
DRILL STEM TESTS								
LOGGING							249540	249540
SAFETY SERVICES	400	400	400	400	400	2000	59347	61347
SPECIAL SERVICES							43408	43408
TRUCKING							105200	105200
FIELD SUPERVISION								
- FOREMAN	800	800	800	800	800	4000	91200	95200
- GEOLOGIST							111075	111075
- SECOND MEN								
TRAVEL/ACCOMMODATION								
OVERHEAD								
Welding/tongs/vac truck							68753	68753
Crew/all/flights/vehicle							98412	98412
Wadeco							169801	169801
DAILY COST	5088	26021	6750	5088	5088	48035	4900935	4948970
ACCUMULATED COST	4906023	4932044	4938794	4943882	4948970			

Account	Comment
	99/01/27 Drilling Fluids costs :Demobilize mud storage building (\$5,955),Transfer chemicals to rack site (\$11,683)& building rent for Jan. 26 & 27.(\$330), chemicals (\$2545).

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

DATE: 99/01/30

U. 3001616050123150

CPA NO.:

DAY: 78

OF. SUPERVISOR: Mickey Sutherland

CONTRACTOR: Nabors Drlg.

RIG #: 24E

KB: 262.5 m

KB-GL: 7.5 m

LICENCE NO.: WID#1851

SPUD DATE: 98/11/13 @ 12:15 hrs.

GL: 255.0 m

KB-CF: 6.9 m

RIG RELEASE: 99/01/18 @ 12:00 hrs.

WELL STATUS: POTENTIAL GAS

WEATHER: Light flurries

TEMP: -24 °C

FINAL TD: 2660.00 m

FORMATION: Camsell

Midnight DEPTH: 2640.65 m

PROGRESS: 2640.65 m

PBDT: 2640.50 m

FORMATION: Camsell

8:00 a.m. DEPTH: 2640.65 m

8:00 a.m. OPERATION: Prepare location for service rig arrival.

AFE #: A983002

AFE AMT: \$ 5747200

DAILY COST: \$

5088

CUMULATIVE COST: \$ 4943882

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LENGTH: 0.00 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

WT. ON BIT: daN

ROTARY RPM:

STRING WT.: daN

DRILL PIPE O.D.:

THREAD:

DRILL COLLARS O.D.:

THREAD:

NO. IN HOLE:

TOTAL
ROTATING
HOURS: 699.75B
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BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT.					REMARKS			
					1	2	3	IN	OUT			DRL	RMD	WTdaN	RPM	I	O	D	L	B	G	O	R	
										0					—									
										0					—									
										0					—									

LAST PIPE TALLY:

BOARD:

CORRECTION: YES [] NO []

M
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Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Drid. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MFI	MFO	°C IN/OUT
	/				/	/											/
	/				/	/											/
CENTRIFUGE				DESILTER			DESANDER			DEGASSER			TOTAL MUD DUMPED				
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3		HR OUT	kg/m3		HR OUT	kg/m3		m3				

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PUMP NO. 1					PUMP NO. 2					PRESSURE		ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	kPa		DP m/MIN	DC m/MIN	VELOCITY m/sec	HHP
												0.0	0.0		0.00

SURVEYS	TIME BREAKDOWN	MUD ADDITIVES
AZIMUTH • @ m • @ m • @ m • @ m • @ m • @ m • @ m • @ m • @ m • @ m	TOTAL HOURS:	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.29 00:00 Hrs. Drove rental truck to Ft. Liard for service job. Came back to location and unfrozen frozen sewer lines on Beaver camp. Serviced both rental generators. Contacted Brian Given, Nabors's 24E rig manager concerning Badger's 100 foot extension cord which he returned to Ft. St. John from Grande Prairie with CFL Transport. This cord was

packed up and inadvertently moved with the rig.

Made arrangements to prepare all items on location and camp for service rig arrival. Shut down @ 18:00 hours 1999.01.29.

SUPERVISOR: D. Solberg/M. Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:



SERVICE ORDER RECORD

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61		DATE: 99/01/21
LC	JN: 300-I61-6050-12315-0	

NUMBER	DATE	COMPANY	AMOUNT	SERVICE
137734	99/01/21	SWANBERG TRUCKING	25035.00	TEAR OUT NABORS 24E
0576	99/01/21	SOUCIE TRANSPORT	1872.50	HAUL 400 BBL TANK
9901207	99/01/21	PREMIUM INSPECTION	20362.82	INSP/DRILL PIPE
122418	99/01/24	MULLEN TRUCKING	190000.00	BACKHAUL NABOR'S 24E
5762	99/01/27	H L POWELL	12500.00	TRANS/MUD TO RACKSITE
7619	99/01/27	BADGER RENTALS	6625.00	MUD BLG RNT&DEMOBILIZ
16778	99/01/27	TRANSCONTINENTAL	3780.00	DEMOB/ MUD BLDG
7620	99/01/27	BADGER RENTALS	2799.45	100 BBL WTR/TNK RENT
30167	99/01/28	FORMULA TRANSPORT	1150.00	HAUL 4 MUD BLDG MATS
126529	99/01/28	FT.LIARD FUEL CENTRE	384.31	FUEL
6275	99/01/28	BEAVER ENT. LTD.	127.50	DELIVER FUEL
1509	99/01/29	DUNVEGAN RENTALS	10020.55	WELLSITE RENTALS
1554	99/01/29	NEW BEGINNING	12364.92	RENTALS
20049	99/01/29	MUSTANG RENTALS	2326.74	42KW GEN SET RENTAL

Each service order issued for this well must be recorded on this table

PAJAK ENGINEERING LTD.



DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS 1-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/29	
W.L.: 3001616050123150		CPA NO.:		DAY: 77	
OFFICE SUPERVISOR: Mickey Sutherland			LICENCE NO.: WID#1851		
CONTRACTOR: Nabors Drlg.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.	
			WELL STATUS: POTENTIAL GAS		
WEATHER: Light flurries		TEMP: -22 °C		FINAL TD: 2660.00 m	
Midnight DEPTH: 2640.65 m		PROGRESS: 0.00 m		FORMATION: CAMSELL	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Prepare camp and wellsite for service rig.		PBDT: 2640.65 m	
				FORMATION: CAMSELL	

AFE #: A983002 **AFE AMT:** \$ 5747200 **DAILY COST:** \$ 6750 **CUMULATIVE COST:** \$ 4938794

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					TOTAL ROTATING HOURS: 699.75	
LENGTH:	0.00 m	WT. BELOW JARS:	daN	JAR HRS:	JAR SERIAL #:	
WT. ON BIT:	daN	ROTARY RPM:		STRING WT.:	daN	
DRILL PIPE O.D.:		THREAD:		DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:

BITS

[illegible]

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES [] NO [X]

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Viscosity Cst/L	DENSITY IN/OUT	pH	WL cc/30min	PC mm	PV/TP	GELS O/S	Tot. Sol kg/m3	Dye. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	Oil %	Cl ppm	Ca ppm	ALKALINITY MFI MFO	°C IN/OUT
	/				/	/										/
	/				/	/										/
CENTRIFUGE					DESLTER		DESANDER		DEGASER		TOTAL MUD DUMPED					
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3				

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PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINE IN.	STROKE IN.	SPM	cc/MIN	MODEL	LINE IN.	STROKE IN.	SPM	cc/MIN	PSI	DP in/MIN	DC cc/REV	VELOCITY m/sec.	WHP
Emsco	140	254			Emsco	140	254				0.0	0.0		0.00

SURVEYS	TIME BREAKDOWN	MUD ADDITIVES
AZIMUTH		TRUCKING 1150
• •		
	TOTAL HOURS:	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.28 @ 08:00 Hours.

Formula Transport were in at 10:30 hours and hauled mud storage building rental mats back to Ft. Nelson. Checked and serviced both rental generators. Mullen Trucking were in at 16:30 hours and picked up the last remaining Nabors 24F load. Last load left at 18:00 hours 1999.07.28.

Made arrangements to level lease and have all items ready for service rig arrival.

SUPERVISOR: D. Solberg/M. Rogerson **PHONE #:** (600) 700-2629 **CALLING CARD #:**



PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/28	
W.I.: 3001616050123150		CPA NO.:		DAY: 76	
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: W10#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drlg.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: 99/01/18 @ 12:00 hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS: POTENTIAL GAS	
WEATHER: Light flurries		TEMP: -22 °C		FINAL TD: 2660.00 m	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		FORMATION: CANSELL	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Finish lease clean up. Wait on service rig.		FORMATION: CANSELL	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 26021 CUMULATIVE COST: \$ 4932044

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LENGTH: 0.00 m				WT. BELOW JARS: daN				JAR HRS:				JAR SERIAL #:			
WT. ON BIT: daN				ROTARY RPM:				STRING WT.: daN							
DRILL PIPE O.D.:				THREAD:				DRILL COLLARS O.D.:				THREAD:			
												NO. IN HOLE:			

 TOTAL
ROTATING
HOURS: 699.75
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BIT NO.	SIZE INCH	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS		
					1	2	3	IN	OUT		DR	RND	WTA	RPM	I	O	D	L	B	G		O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES ☐ NO ☒M
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Viscosity Stc/K	DENSITY HR/OUT	pH	WT. cc/30min	FC min	PV/YP	GELS 0/30	Ten. Sol kg/m3	D44 Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	DE %	CI ppm	Ca ppm	ALKALINITY MFI MFO	°C HR/OUT	
/	/				/	/										/	
/	/				/	/										/	
CENTRIFUGE					DESLTER			DESLANDER			DEGASSEN			TOTAL MUD DUMPED			
HR IN		kg/m3		OUT		kg/m3		HR OUT		kg/m3		HR OUT		kg/m3		m3	

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PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	ml/MIN	MODEL	LINER mm	STROKE mm	SPM	ml/MIN	MPa	DP m/MIN	DC m/MIN	VELOCITY m/sec	HP
Emsco	140	254			Emsco	140	254				0.0	0.0		0.00

SURVEYS		TIME BREAKDOWN		MUD ADDITIVES	
AZIMUTH				Bldg.rent 1	
• @	m			Alcower110	
• @	m			Alka a110	
• @	m			Barite	
• @	m			Chemcide	
• @	m			Desco	
• @	m			Gel Net	
• @	m			Lignite	
• @	m			Percol728	
• @	m			Pot Sulfat	
• @	m			Sawdust	
• @	m			Soda Ash	
		TOTAL HOURS:			

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.27 @ 08:00 Hours. Demobilized Badger mud storage building and returned it to Ft. St. John with Transcontinental. Formula Trucking will be out and haul the four sections of matting from mud storage building January 28, 1999. Shut down at 22:30 hours 1999.01.27.

Note #1: HL Powell received \$162 of fuel on Cdn Forest

Note #2: Correction to mud inventory after sack count. See attached inventory.

SUPERVISOR: D.Solberg/M.Rogerson	PHONE #: (600) 700-2629	CALLING CARD #:
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CD 01/97



PAJAK ENGINEERING LTD.

M U D A D D I T I V E S I N V E N T O R Y

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

RIG: 24E

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

Wed Jan 27 13:27:20 1999

MUD ADDITIVE	SACKS REC'D	SACKS USED	INVENT ADJUST	ON HAND	KG PER SACK	KG TOT WEIGHT
Alcomer110	180	118	-2	60	25.0	1500
Alka a110	40	3	-2	35	25.0	875
Alka n100	24	1	0	23	25.0	575
Barite	4074	3029	37	1082	40.0	43280
Bicarb	25	2	0	23	22.7	522
Bldg.rent	120	76	0	44	0.0	0
Caustic	70	43	0	27	22.7	613
Chemcide	84	56	-1	27	22.7	613
Corinox	185	149	0	36	18.9	680
Defoam Sil	40	9	0	31	22.7	704
Desco	240	11	-4	225	11.3	2542
Drispac re	160	82	0	78	22.7	1771
Envirofloc	80	7	0	73	36.3	2650
Gel	280	280	0	0	40.0	0
Gel Nat	800	481	-4	315	40.0	12600
Kelzan	55	17	0	38	25.0	950
Lignite	164	78	-1	85	22.7	1930
Lime	274	135	0	139	20.0	2780
Mud Flo II	17	0	0	17	0.9	15
Pallets	283	283	0	0	22.7	0
Percol728	156	60	-4	92	25.0	2300
Percol787	16	0	0	16	25.0	400
Pot Sulfat	4200	2682	-3	1515	25.0	37875
Prima Seal	100	0	0	100	18.1	1810
Sawdust	600	200	45	445	18.1	8055
Shrinkwrap	160	160	0	0	0.0	0
Sod Sulf	178	138	0	40	22.7	908
Soda Ash	120	15	-6	99	25.0	2475
Starpac	250	137	0	113	22.7	2565
Sulph acid	110	81	0	29	25.0	725
Trucking	27631	27631	0	0	0.0	0
Zinc carb	40	0	0	40	25.0	1000
	40756	35964	55	4847		

EXTRA MUD COSTS \$2545.36



PAJAK ENGINEERING LTD.

M U D A D D I T I V E S I N V E N T O R Y

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

APE: A983002

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

RIG: 24E

Wed Jan 27 13:27:20 1999

MUD ADDITIVE	SACKS REC'D	SACKS USED	INVENT ADJUST	ON HAND	KG PER SACK	KG TOT WEIGHT
Alcomer110	180	118	-2	60	25.0	1500
Alka a110	40	3	-2	35	25.0	875
Alka n100	24	1	0	23	25.0	575
Barite	4074	3029	37	1082	40.0	43280
Bicarb	25	2	0	23	22.7	522
Bldg.rent	120	76	0	44	0.0	0
Caustic	70	43	0	27	22.7	613
Chemcide	84	56	-1	27	22.7	613
Corinox	185	149	0	36	18.9	680
Defoam Sil	40	9	0	31	22.7	704
Desco	240	11	-4	225	11.3	2542
Drispac re	160	82	0	78	22.7	1771
Envirofloc	80	7	0	73	36.3	2650
Gel	280	280	0	0	40.0	0
Gel Nat	800	481	-4	315	40.0	12600
Kelzan	55	17	0	38	25.0	950
Lignite	164	78	-1	85	22.7	1930
Lime	274	135	0	139	20.0	2780
Mud Flo 11	17	0	0	17	0.9	15
Pallets	283	283	0	0	22.7	0
Percol728	156	60	-4	92	25.0	2300
Percol787	16	0	0	16	25.0	400
Pot Sulfat	4200	2682	-3	1515	25.0	37875
Prima Seal	100	0	0	100	18.1	1810
Sawdust	600	200	45	445	18.1	8055
Shrinkwrap	160	160	0	0	0.0	0
Sod Sulf	178	138	0	40	22.7	908
Soda Ash	120	15	-6	99	25.0	2475
Starpac	250	137	0	113	22.7	2565
Sulph acid	110	81	0	29	25.0	725
Trucking	27631	27631	0	0	0.0	0
Zinc carb	40	0	0	40	25.0	1000
	40756	35964	55	4847		

EXTRA MUD COSTS \$2545.36

DAILY DRILLING REPORT

P.02

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

NAME: CDN FOREST et al FLETT RAPIDS I-61 DATE: 99/01/27
LOCATION: 300-161-6050-12315-0 U.W.I.: 300I616050123150
DAY: 75 DEPTH: 2640.65 m PROGRESS: 2640.65 m CPA NO.:
WEATHER: Snowing TEMP: -15 °C
9:00 a.m. OPERATION: Disassemble mud storage building and return to Ft.St.John.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Ongoing services & rentals:

Camp & sleeper	\$2800/day
Medical services	\$ 400/day
3 400 BBL tanks @ \$34/day	\$ 102/day
1 200 BBL fuel tank	\$ 34/day
2 ash bins	\$ 60/day
2 incinerators	\$ 110/day
1 garbage bin	\$ 70/day
2 rig mats	\$ 60/day
1 100 BBL water tank	\$ 85/day
1 42kw gen set & fuel tank	\$ 157/day
Communication	\$ 150/day
1 well site	\$ 185/day
Total	\$4213/day

REPORTED BY: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

CD 96/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/26	
W.I.: 3001616050123150		CPA NO.:		DAY: 74	
OFFICE SUPERVISOR: Micky Sutherland		LICENCE NO.: WID#1851			
CONTRACTOR: Nabors Drlg.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.	
		WELL STATUS: POTENTIAL GAS			
WEATHER: Clear		TEMP: -20 °C	FINAL TD: 2660.00 m	FORMATION: CANSELL	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m	PSTD: 2640.65 m	FORMATION: CANSELL	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Transfer mud chemicals from I-61 to rack site.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 6051 CUMULATIVE COST: \$ 4900935

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					TOTAL ROTATING HOURS: 699.75	
LENGTH: 0.00 m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:			
WT. ON BIT: daN	ROTARY RPM:	STRING WT.: daN				
DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:		

BITS

[illegible]

LAST PIPE TALLY: 2661.51 BOARD: 2660.00 CORRECTION: YES [] NO [X]

Velocity Sec./ft.	DENSITY lb/cu ft	pH	WL cu ft/min	PC min	Fe/TP	GELS O/lb	TM. Sol kg/m3	SOL. Sol kg/m3	SAND kg/m3	CEMENTITE kg/m3	LEAD kg/m3	GR %	CL ppm	Co ppm	ALKALINITY MPS MPO	*C IN/OUT
	/				/	/										/
	/				/	/										/
CENTRIFUGE					DESILTER			DEASER			DEASER			TOTAL AND DUMPS		
HR IN	kg/m3	OUT	kg/m3		HR OUT	kg/m3		HR OUT	kg/m3		HR OUT	kg/m3			m3	

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PUMP NO. 1					PUMP NO. 2					PRESSURE		ANGULAR VELOCITY		JET	
TYPE: P-1000					TYPE: P-1000										
MODEL	LINEAR mm	STROKE mm	SPM	ml/MIN	MODEL	LINEAR mm	STROKE mm	SPM	ml/MIN	MPa	DP m/MIN	OC m/MIN	VELOCITY m/sec	HP	
Emeco	140	254			Emeco	140	254				0.0	0.0		0.00	

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MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
1999-01-25 @ 08:00 Hours. Ft. Liard River. Shut down operations at 18:30 hours

HL Powell arrived on I-61 location at 12:30 hours. Loaded 2 hiboys with mud chemicals, took inventory of unused chemicals and shrinkwrapped all exposed mud and chemicals. Mud transfer trucks left old location at 16:30 hours to stock pile mud chemicals at rack site on the other side of

Ft. Liard River. Shut down operations at 18:30 hours
1999.01.25.

SUPERVISOR: D. Solberg/M. Rogerson PHONE #: (600) 700-2629 CALLING CARD#:

● PAJAK ENGINEERING LTD.

DRILLING COST REPORT

WELL NAME: CON. FOREST et al FLETT RAPIDS I-61						AFE #:		A983002	
LOCATION: 300-161-6050-12315-0						PRESENT DEPTH:		2660 m	
Description		Date	Date	Date	Date	Date	5 DAY TOTAL	PREV TOTAL	TOTAL COST
		99/01/21	99/01/22	99/01/23	99/01/24	99/01/25			
INTERMEDIATE CASING	m of 244 mm							236404	236404
PRODUCTION CASING	m of 178 mm							121712	121712
SURFACE CASING	m of 339 mm							168758	168758
DRILLING BITS								139688	139688
DAYWORK	\$ /DAY	7996	4041	4041	4041		20119	1054728	1074847
DIRECTIONAL DRILLING								198413	198413
FUEL								190086	190086
WATER			548			548	1096	92210	93306
ENGINEERING/DESIGN								10800	10800
LEASE AND ACCESS									
- LICENCES & PERMITS									
- SURFACE LEASE & SURVEY								13000	13000
- ROAD & LEASE PREPARATION								153550	153550
- RESTORATION & CLEAN-UP									
RIG AND CAMP MOVE		25035		190000			215035	232399	447434
DRILLING FLUIDS		165	165	165	165	165	825	377193	378018
BOILER								90800	90800
COMMUNICATIONS		150	150	150	150	150	750	12600	13350
CAMP AND CATERING		3300	2800	2800	2800	2800	14500	280700	295200
CEMENT SERVICES									
- SURFACE								24612	24612
- INTERMEDIATE								70298	70298
- PRODUCTION/LINER								41114	41114
CORING AND ANALYSIS									
EQUIPMENT RENTALS		1129	1103	938	938	938	5046	137763	142809
DRILL STEM TESTS									
LOGGING								249540	249540
SAFETY SERVICES		400	400	400	400	400	2000	57347	59347
SPECIAL SERVICES		19031					19031	24377	43408
TRUCKING		1750					1750	103450	105200
FIELD SUPERVISION									
- FOREMAN		800	800	800	800	800	4000	87200	91200
- GEOLOGIST								111075	111075
- SECOND MEN									
TRAVEL/ACCOMMODATION									
OVERHEAD									
Welding/tongs/vac truck								68753	68753
crew/all/flights/vehicle		5830	304	304	304	250	6992	91420	98412
Wadeco								169801	169801
DAILY COST		65586	10311	199598	9598	6051	291144	4609791	4900935
ACCUMULATED COST		4675377	4685688	4885286	4894884	4900935			

Account	Comment
	99/01/21 : Special Services -Premium Oilfield Inspection Services \$19030.64.

SUPERVISOR: D. Solberg/M. Rogerson

PHONE #: (600) 700-2629

CCARD #:

JAN-26-1999 08:41

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TOTAL P.05
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PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CON. FOREST at el FLETT RAPIDS I-61 A: 3001616050123150		LOCATION: 300-161-6050-12315-0 CPA NO.:		DATE: 99/01/25 DAY: 73	
OFFICE SUPERVISOR: Hickey Sutherland CONTRACTOR: Nabors DrLg. RIG #: 24E		KB: 262.5 m KB-GL: 7.5 m GL: 255.0 m KB-CF: 6.9 m		LICENCE NO.: WDM1851 SPUD DATE: 98/11/13 @ 12:15 hrs. RIG RELEASE: 99/01/18 @ 12:00 hrs. WELL STATUS: POTENTIAL GAS	
WEATHER: Overcast Midnight DEPTH: 2640.65 m 8:00 a.m. DEPTH: 2640.65 m		TEMP: -15 °C PROGRESS: 2640.65 m 8:00 a.m. OPERATION: Haul mud and chemicals to rack site with HL Powell Trucking.		FINAL TD: 2660.00 m FORMATION: CARBELL PBTD: 2640.65 m FORMATION: CARBELL	

APE #: 4983002 **APE AMT:** \$ 5747200 **DAILY COST:** \$ 9596 **CUMULATIVE COST:** \$ 4576884

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										TOTAL ROTATING HOURS: 699.75	
LENGTH: 0.00 m		WT. BELOW JARS: 44N		JAR HRS:		JAR SERIAL #:					
WT. ON BIT: 44N		ROTARY RPM:		STRING WT.: 44N							
DRILL PIPE O.D.:		THREAD:		DRILL COLLARS O.D.:		THREAD:		NO. IN HOLE:			

BITS

PT	SEC	EAGE	GALLERY	TYPE	SPACING IN					SP	WELL	IN THE	BENDING CORRECTION		CORRECTION		CORRECTION FACTOR								REMARK
					1	2	3	4	5				6	7	8	9	10	11	12	13	14	15	16	17	
4B	215.9	RBI	BP753B	C45LRE	8.7	8.7	8.7	2571	2660	69		3.0	29.75			16-17	55	4	4	BT	A	E	I	NO	LOG
5BRB	215.9	Reed	TC1097	NP11	9.5	9.5	9.5	2660			0		0.00			—		2	2	WT	A				
7L	256.0	Reed	LJ6381	SHP43H	0.0	0.0	0.0	1899			-189				2.50	1-2	2	2	NO	A					

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES ☒ NO ☐

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PUMP

TYPE T-1000					TYPE T-1000					TYPE T-1000				
MODEL	MIN. SIZE	STROKE IN.	SPR.	MAX. IN.	MODEL	MIN. SIZE	STROKE IN.	SPR.	MAX. IN.	MODEL	MIN. SIZE	STROKE IN.	SPR.	MAX. IN.
3000	140	254			3000	140	254			3000	0.0	0.0	0.0	0.00

[illegible]**AND COMMENTS:**

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Coring, Drill Stem Tests, Logging, Alterations, etc. Expansion of Observations to be inserted later.)
1999.07.24 @ 08:00 Hours. push there would be a truck in to pick up one of

Held prejob safety meeting with Roberts and Mullin personnel.

Loaded out Nabors 24E and backhauled to Grande Prairie.

SHUT down for day at 19:00 hours 1999.01.24.

NOTE #7: There are four loads remaining (2 pipe racks, 1 junk rack, and the spare boiler,) according to the truck

push there would be a truck in to pick up one of the pipe tube today and the rest would be picked up Tuesday afternoon January 26, 1999.

82: Arrangements were made with Mullen Trucking to backhaul Madeco centrifuge and Nabors drill collars when they have a full load going towards Nisku.

SUPERVISOR: D. Solberg/N. Rogerson

PHONE #: (600) 700-2629

CALLING CARD:

CD 0507

DAILY DRILLING REPORT

WELL NAME: CON. FORGET et al FLETT SAFES I-61		LOCATION: 300-161-6050-72315-0		DATE: 99/01/24	
I: 3002616050123150		CPA NO.:		DAY: 72	
ACE SUPERVISOR: Nickey Sutherland		LICENCE NO.: WID1851			
CONTRACTOR: Nabors Drig.		KB: 262.5 m KB-GL: 7.3 m		SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		RIG RELEASE: 99/01/18 @ 12:00 hrs.	
				WELL STATUS: POTENTIAL GAS	
WEATHER: Clear		TEMP: -14 °C		FINAL TD: 2660.00 m FORMATION: CANSELL	
Midnight DEPTH: 2660.65 m		PROGRESS: 0.00 m		PSTD: 2660.65 m FORMATION: CANSELL	
8:00 a.m. DEPTH: 2660.65 m		8:00 a.m. OPERATION: Backhaul Nabors's 24E to Grande Prairie with Rullen Trucking.			

APE #: A963002 **APE AMT:** 8 5747200 **DAILY COST:** 8 199598 **CUMULATIVE COST:** 8 485286

B H A											TOTAL ROTATING HOURS: 699.75	
	LENGTH: 0.00 m		WT. BELOW JARS:		JARS: 42N		JARS HRS:		JARS SERIAL #:			
	WT. ON BIT: 42N		ROTARY RPM:		STRING WT.: 42N							
	DRILL PIPE O.D.:		THREAD:		DRILL COLLARS O.D.:		THREAD:				NO. IN HOLE:	

BITS	TIME	DATE	SIGNAL	TYPE	POSITION			DEPTH		WIND	WAVE	MOON		SEA	CLOUD			VIS	REMARK
					1	2	3	IN	OUT			UP	DOWN		1	2	3		
	0.0				0.0	0.0	0.0	0	0	0		0.00		0-0	0				
0	0.0				0.0	0.0	0.0	0		0		0.00		-					
	0.0				0.0	0.0	0.0	0		0			0.00	0-0					

LAST PIPE TALLY: 2667.51

BOARD: 2660.00

CORRECTION: YES ☐ NO ☒[illegible]

PUMP	TYPE P-1000				TYPE P-1000				TYPE P-1000				TYPE P-1000		
	MODEL	INCH	STROKE	SPM	INCH	STROKE	SPM	INCH	STROKE	SPM	INCH	STROKE	SPM	INCH	STROKE
Esco	140	254			Esco	140	254			3400	0.0	0.0			0.00

[illegible]

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Corrosion, Drill Stem Tests, Logging, Abandonment Plug, etc. Sequence of Operations to be inserted below.)

99/01/23 08:00 hours. Held prejob safety meeting with Nabors and Mullen personnel. Loaded trucks and backhauled Nabors 24E to Grande Prairie. 14 loads were taken out today with approximately 20 loads remaining. Probably 6 more suck on loads and 12 loads of tubular goods.

Shut down for the day at 19:00 hours 1979.01.23.

SUPERVISOR: D. Solberg/N. Ragsdale PHONE #: (609) 700-2629 CALLING CARD#:

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST ET AL FLETT RAPIDS 3-41 3001616050123150		LOCATION: 300-161-6050-12315-0		DATE: 99/01/23	
OFFICE SUPERVISOR: Mickey Sutherland		CPA NO.:		DAY: 71	
CONTRACTOR: Nabors Drilling		LICENCE NO.: WIDF1831		SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG # 24E		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: 99/01/18 @ 12:00 hrs.	
		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS: POTENTIAL GAS	
WEATHER: Clear		TEMP: -30 °C		FINAL TD: 2660.00 m	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		FORMATION: CANSELL	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Backhaul Nabors 24E to Grande Prairie with Hullen Trucking.		FORMATION: CANSELL	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 10311 CUMULATIVE COST: \$ 4685688

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				TOTAL HOURS: 699.75
LENGTH: 0.00 m	WT. BELOW JARS: 4m	JAR MRS:	JAR SERIAL #:	
WT. ON BIT:	ROTARY RPM:	STRING WT.:		
DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:	NO. IN HOLE:

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BIT NO.	SIZE mm	WGT kg	WGT lb	WGT LOSS				WGT kg	WGT lb	WGT kg	WGT lb	WGT kg	WGT lb	WGT kg	WGT lb	WGT kg	WGT lb	WGT kg	WGT lb
				1	2	3	4												
	0.0			0.0	0.0	0.0	0	0	0	0	0.00		0-0	0					
0	0.0			0.0	0.0	0.0	0		0	0.00									
	0.0			0.0	0.0	0.0	0		0	0.00	0-0								

LAST PIPE TALLY: 2661.51 BOARD: 2660.00 CORRECTION: YES [] NO [X]

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MUD NO.	SOLIDS kg/m3	pH	WE kg/m3	FC mm	CUTS		TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	TSS kg/m3	T
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TYPE - 100					TYPE - 100					PRESSURE			VELOCITY		DET	
MODEL	SIZE	STROKE	SPR	WGT	MODEL	SIZE	STROKE	SPR	WGT	IN	PSI	PSI	VELOCITY	WGT		
	mm	mm				mm	mm						mm/sec	mm		
Esco	140	254			Esco	140	254			3400	0.0	0.0		0.00		

SURVEYS	TIME BREAKDOWN	MUD ADDITION
AZIMUTH @ m @ m @ m @ m @ m @ m @ m @ m @ m	RIG MOVE 10.75 SAFETY RTG 0.25 TOTAL HOURS: 11.00	Bldg. rent 1

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Logging, Coring, Drift Stop Tests, Logging, Abandonment Plug, etc. Sequence of Operations to be indicated below.)

99/01/22 08:00 hours. Held prejob safety meeting with Nabors & Hullen personnel. Loaded out Nabors 24E with Hullen Trucking to be backhauled to Grande Prairie. Total of 25 loads were taken. Cooper Barging Service hauled 5 loads of Vadeco equipment and 1 wellsite unit to racksite. Shut down at 19:00 hours 1999.01.22.

SUPERVISOR: D. Solberg/N. Rogers	PHONE #: (403) 700-2629	CALLING CARD #:
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PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

NAME: CON FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/22	
: 3001616050123150		CPA NO.:		DAY: 70	
OFFICE SUPERVISOR: Kiekey Sutherland		LICENCE NO.: W18#1851			
CONTRACTOR: Nabors Drlg.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 253.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.	
				WELL STATUS: POTENTIAL GAS	
WEATHER: Clear		TEMP: -34 °C		FINAL TD: 2660.00 m	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		FORMATION: CANSSELL	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Wait on Mullen backhaul trucks.		PSTD: 2640.65 m	
				FORMATION: CANSSELL	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 65586 CUMULATIVE COST: \$ 4675377

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					TOTAL ROTATING HOURS: 699.75		
LENGTH: 0.00 m		WT. BELOW JARS: daN		JAR HRS:		JAR SERIAL #:	
WT. ON BIT: daN		ROTARY RPM:		STRING WT.: daN			
DRILL PIPE O.D.:		THREAD:		DRILL COLLARS O.D.:		THREAD:	
						NO. IN HOLE:	

BITS

BIT NO.	SIZE MM	NAME	SERIAL #	TYPE	NOZZLES MM			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		EYE		CUTTING STRUCT						REMARKS	
					1	2	3	IN	OUT			DRILL	ROAD	WFLAN	WFLM	1	0	0	1	2	3	4	5
										0					-								
										0					-								
										0					-								
										0					-								

LAST PIPE TALLY: 2661.51	BOARD: 2660.00	CORRECTION: YES ☐ NO ☒
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Viscosity Cst/L	DENSITY kg/m ³	pH	SL cc/100ml	FC mm	PV/TP	GELS G/10	Ten. Sol kg/m ³	Def. Sol kg/m ³	SAND kg/m ³	BENTONITE kg/m ³	LOH kg/m ³	ML %	C ppm	Ca ppm	ALUMINUM mg/l	Fe mg/l	°C IN/OUT
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
CENTRIFUG				DEWATER			DEWATER			DEWATER			DEWATER			TOTAL MUD QUIPED	
HR IN	kg/m ³	OUT	kg/m ³	HR OUT	kg/m ³		HR OUT	kg/m ³		HR OUT	kg/m ³		HR OUT	kg/m ³		m ³	

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PUMP

PUMP NO. 1	TYPE F-1000				PUMP NO. 2	TYPE F-1000				PRESSURE	ANGULAR VELOCITY		JET		
	MODEL	LINER mm	STROKE mm	SPM		ml/min	MODEL	LINER mm	STROKE mm		SPM	ml/min	MPa	OP G/PM	OC G/PM
Emeco	140	254			Emeco	140	254					0.0	0.0		0.00

SURVEYS		TIME BREAKDOWN		MUD ADDITIVES	
	AZIMUTH	DRILLING	SURVEYING	Blkg.rent	1
•	"	RIG SERV	SAFETY HTG 0.25		
•	"	TRIPPING	WHL TOOLS		
•	"	CIRCULATE	PRESS TEST		
•	"	RIG UP/DN 9.75	W/N.U. BOP		
•	"	CLN TO BTH	BOP DRILL		
•	"	SLIP & CUT	LOGGING		
•	"	REAMING	PRESS TEST		
•	"	RUN CSG	DRLE OUT		
		TOTAL HOURS: 10.00			

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, DWS Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
 1999-01-21 @ 08:00 Hours. [Note #1: Made arrangements for Backhoe Rentals to come for

Held prejob safety meeting with Swanberg and Nabors personnel. Disassembled derrick, stacked mating and prepared rig to be backhauled to Grande Prairie with Mullen Trucking. Cleaned up all garbage on lease. Shut down @ 18:00 hours 1999.01.21.

Note #1: Made arrangements for Badger Rentals to come for mud storage building Wednesday January 27, 1999.
#2: Drill pipe inspection completed 1999.01.21 @ 18:00 hours, cost - \$20,362.82.
#3: Tore out equipment. Finished job 1999.01.21 @ 16:00 hours, cost - \$25,035.00.

SUPERVISOR: D. Solberg/M. Rogerson **PHONE #:** (609) 700-2629 **CALLING CARD#:**



PAJAK ENGINEERING LTD.

SERVICE ORDER RECORD

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61 DATE: 98/12/26
 LOCATION: 300-I61-6050-12315-0

NUMBER	DATE	COMPANY	\$ AMOUNT	SERVICE
60797	98/12/26	IMPORT TOOL CORP	16418.65	RUN 244.5MM STAGETOOL
6012	98/12/25	RAY'S LAY DOWN SERV	6259.50	RUN 244.5MM CSG
6011	98/12/25	RAY'S POWER TONG LTD.	6172.18	RUN 244.5MM CSG
6010	98/12/25	RAY'S POWER TONG LTD.	7793.93	RUN 244.5MM CSG
66868	98/12/25	COMPUTALOG	12785.85	LOG Cased HOLE
15292	98/12/22	TRANSCONTINENTAL	4381.00	DELIVER 165MM TOOLS
65619	98/12/25	SANJEL	53878.80	CEMENT 244.5MM CSG.
3427	98/12/26	ABB VETCO GRAY	2704.00	INSTAL INT DLRG SPOOL
132955	98/12/26	GEORGE JOORS WELDING	256.80	CUT 244.5 MM CSG
2680	98/12/28	BATEMAN INSP LTD.	2469.56	INSPECT BHA
1559	98/12/27	INLAND PRESSURE TEST	5189.50	PRES TEST 244.5/CSG
1071	98/11/30	Destiny	1238.00	Rental, 2 400 bbl. ta
156717	98/12/11	Frontier Supply.	132.00	Recycle protectors.
1956	98/12/31	Beaver Enterprises	8395.00	Haul rig water.
1957	98/12/31	Beaver Enterprises	1200.00	Haul rig water.
02739361	98/12/31	ICG Propane	1603.02	Propane for camp, sha
246654	99/01/01	Bemanfree Ind.	13000.00	First aid services.
20366	99/01/02	Computalog.	81005.26	Open hole logging.
B/L15332	99/01/03	Transcontinental	4881.50	Haul liner.
649816	99/01/05	Fort Nelson Beverage	540.00	Hotshot survey bbl.
1522	99/01/04	New Beginnings	12350.50	Rentals
1453	99/01/04	Dunvegan Rentals	10850.00	Wellsite rentals
461356	99/01/06	Frontier Supply.	466.20	Recycle protectors
24986	99/01/05	J&L Supply	43263.00	4 bits
1077	98/12/31	Destiny	2482.00	Tank rentals
2697375	99/01/08	ICG Propane	1014.30	Propane
2815	99/01/04	Beaver Enter.	390.00	Haul D8
2816	99/01/09	Beaver Enter.	565.00	Return D8 & pilot car
15358	99/01/09	Transcontinental	3330.00	Haul liner
15286	98/12/19	Transcontinental	4381.00	Haul 244.5 mm csg.
1055767	99/01/09	Schlumberger	123848.74	Open hole logging.
0038	99/01/13	HALLMARK TECHNICAL	5756.60	INSP/178 MM LINER
61252	99/01/14	IMPORT TOOL	35664.65	SET 178 MM LINER
65644	99/01/14	SANJEL	41114.28	CEMENT 178 MM LINER
5864	99/01/14	BEAVER ENTERPRISES	1445.00	VAC TRK CEMENT JOB
1958	99/01/13	BEAVER ENTERPRISES	7800.00	HAUL RIG WATER
24460	99/01/14	SOS OILFIELD SAFETY	24607.50	H2S SERVICE
15374	99/01/13	TRANSCONTINENTAL	3809.50	HAUL 89MM DRILL PIPE
6203	99/01/13	RAY'S POWER TONGS	2710.60	RUN 178MM LINER
118275	99/01/15	SECURITY DBS	9885.00	215.9 MM BIT
85876	99/01/16	HALLIBURTON	5464.00	SET 244.5 MM BRIDGE
2692	99/01/16	BATEMAN INSP LTD	2516.64	INSP/ BHA
5473	99/01/17	RAY'S TONG LTD	12807.90	LAY DOWN TRUCK
6256	99/01/17	PASON SYSTEMS CORP	395.00	TEAR OUT PASON
3438	99/01/17	ABB VETCO GRAY	2608.00	INST/TUBING HEAD
16766	99/01/17	TRANSCONTINENTAL	3033.40	BACKHAUL 89MM DP
5799	99/01/18	BEAVER ENT LTD.	1955.00	CLN MUD TANKS
1959	99/01/19	BEAVER ENT LTD.	3600.00	HAUL RIG WATER
6259	99/01/20	BEAVER ENT LTD.	340.00	SUCK OUT RIG FUEL TNK
8178	99/01/21	ROCKBIT INDUSTRIES	11539.00	215.9 MM DRILL BIT
3379	99/01/21	ROCKBIT INDUSTRIES	2500.00	156 MM DRILL BIT

Each service order issued for this well must be recorded on this table

CO W/W

JAN-22-1999 08:20

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B I T R E C O R D

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

SPUD DATE: 98/11/13

LOCATION: 300-161-6050-12315-0

CONTRACTOR: Nabors Drig.

RIG: 24E

Fri Jan 22 06:31:11 1999

RUN	BIT#	SIZE (mm)	TYPE	MAKE	SERIAL NUMBER	NOZZLE SIZE(mm)			DEPTH		ON BIT		REAMING		I-O-G-L	B-G-O-R	R O P			W O B			R P N			AVG MUD DEN
						#1/4	#2/5	#3/6	IN	OUT	DRILL+CORE (m)	(hr)	(m)	(hr)			MIN (m/hr)	MAX (m/hr)	AVG (m/hr)	MIN daN	MAX daN	AVG daN	MIN	MAX	AVG	
1	1A	444.5	MS13GJ	Reed	R02671	15.9	15.9	15.9	0	151	140	33.50	0	0.00	4-4-WT-A	E-1 -NO-TD	4.2	6.4	5.3	1000	3000	2000	110	120	115	1037
2	2A	660.4	B4	Sec	RC665	15.9	19.0	19.0	27	151	0	0.00	109	20.75	5-4-WT-A	E-1 -NO-TD	5.0	5.2	5.1	1000	3000	2000	50	60	55	1042
3	1B	444.5	XG3	HU	D77BU	19.0	19.0	19.0																		
3	1B	444.5	XG3	HU	D77BU	17.5	17.5	17.5	151	440	289	61.25	0	0.00	4-4-WT-A	E-1 -NO-PR	4.7	6.6	5.7	3000	12000	7500	48	110	79	1066
4	2BRR	444.5	MS13GJ	REED	R02671	15.9	15.9	15.9	440	569	129	43.25	0	0.00	5-5-WT-A	E-1 -NO-PR	2.2	3.0	2.6	3000	7000	5000	100	110	105	1074
5	1	311.0	F 1	SMITH	LK0668	15.9	11.9	11.9	569	592	23	6.75	0	0.00	1-1-NO-A	E-1 -NO-BHA	3.4	3.6	3.5	5000	7000	6000	75	80	77	1033
6	2RR1	311.0	F 1	SMITH	LK0668	11.9	11.9	11.9	592	892	300	56.25	0	0.00	3-5-BT-G	4-1 -NO-PR	5.3	7.1	6.2	7000	12000	9500	70	90	80	1054
7	3	311.0	C 2	RBI	LH1521	11.9	11.9	11.9	892	1385	383	89.00	0	0.00	2-2-WT-A	E-1 -NO-BHA	4.3	6.2	5.2	9000	15000	12000	70	85	77	1079
8	4	311.0	C2	RBI	LH1400	14.3	15.9	15.9	1385	1418	33	10.50	0	0.00	2-2-WT-A	E-1 -NO-BHA	3.1	3.3	3.2	10000	15000	12500	75	75	75	1083
9	5RR4	311.0	C2	RBI	LH1400	14.3	15.9	15.9	1418	1573	155	48.50	0	0.00	3-3-WT-A	E-3 -No-BHA	3.2	3.3	3.2	10000	19000	14500	75	95	85	1089
10	6	311.0	ATM228	HU	H10BT	14.3	14.3	15.9	1573	1872	299	85.75	0	0.00	3-3-WT-A	E-2 -No-BHA	3.1	3.5	3.3	10000	16000	13000	70	110	90	1107
11	7	311.0	EMP51H	REED	BM1481	14.3	14.3	15.9	1872	2073	201	67.50	0	0.00	4-8-BT-G	F-2 -BT-TD	3.0	3.6	3.3	14000	18000	16000	70	110	90	1128
12	8RR	311.0	C2	RBI	LH1400	15.9	15.9	15.9	2073	2073	0	0.00	15	0.75	4-4-WT-A	E-3 -NO-BHA	0.0	0.0	0.0	1000	3000	2000	0	0	0	
13	9RR	311.0	C2	RBI	LH1400	15.9	15.9	15.9	2073	2073	0	0.00	0	0.00	4-4-WT-A	E-3 -WT-LOG	0.0	0.0	0.0	1000	3000	2000	0	0	0	
14	1B	215.9	HP-11	REED	TC1097	7.9	7.9	7.9	2073	2083	10	2.50	0	0.00	2-2-WT-A	E-1 -NO-BHA	4.0	4.0	4.0	6000	10000	8000	60	75	67	1068
15	2B	215.9	G884F	SEC	680230	7.9	7.9	7.9	2083	2395	312	77.25	0	0.00	7-8-BT-A	F-7 -RB-Log	3.4	4.4	3.9	12000	16000	14000	60	70	65	1100
16	3B	215.9	F3P	smith	LS0830	8.7	8.7	8.7	2395	2571	176	57.75	18	2.50	8-8-BT-A	E-1 -LT-PR	3.0	4.6	3.8	16000	17000	16500	60	65	62	1148
17	4B	215.9	C45LRG	RBI	BP7538	8.7	8.7	8.7	2571	2660	89	29.75	0	0.00	4-4-BT-A	E-1 -NO-LOG	3.0	3.2	3.1	16000	17000	16500	55	60	57	1152
18	5BRR	215.9	HP11	Reed	TC1097	9.5	9.5	9.5	2660		0	0.00	0	0.00	- - -	- - -	0.0	0.0	0.0	0	0	0	0	0	0	0
18	5Brr	215.9	HP11	Reed	TC1097	9.5	9.5	9.5	2660		0	0.00	0	0.00	2-2-WT-A	- - -	0.0	0.0	0.0	0	0	0	0	0	0	0
19	1L	156.0	EMP43H	Reed	LJ4381	0.0	0.0	0.0	1899		0	0.00	41	2.50	2-2-NO-A	- - -	7.8	7.8	7.8	1000	2000	1500	50	60	55	

JAN-22-1999

08:14

FROM

P.O.JAK ENGINEERING LTD.

TO

NEB

P.06

MATERIAL TRANSFER

M.T. NO. 14-0019

TRANSFERRED FROM: CND FOREST et al FLETT RAPIDS I-61 AFE #/PROJECT #: A983002

DATE: 99/01/21

TRANSFERRED TO: J & L Supply

AFE #/PROJECT #: A983002

USED FOR: Bits to drill hole

REFERENCE
300-161-6050-12315-0

*Condition: A - New B - Good Used C - Used Requires Repair D - Usable for Other Function E - Junk

OFFICE USE ONLY						OFFICE USE ONLY					
Class/Cat.	Sub-F.	Sequence	G.L. Acct.	S.L. Acct.	Acct. Activity	Quantity	MATERIAL (Include Serial No. Where Possible)	Cond.	%	Price-CMV	Amount
						2.00	215.9 mm Sec GS84F drill bit ser #680230 215.9 mm STC F3P drill bit ser# LS0830	E			
						2.00	311 mm RBI C2 drill bit ser # LH 1521 311 mm RBI C2 drill bit ser # LH 1400	E			
						2.00	311 mm EHP51H drill bit ser # BW1481 215.9 mm C45LRG drill bit ser # BP753B	E			
						2.00	311 mm F 1 drill bit ser # LK0668 215.9 mm drill bit ser # TC1097 Hold in stock @ J&L Supply Ft. Nelson.	B			
TOTAL										\$	

Delivered by: Garth Wood

Received by: Garth Wood

Approved by:

PAJAK ENGINEERING LTD.

MATERIAL TRANSFER

M.T. NO. 14-0020

TRANSFERRED FROM: CND FOREST et al FLETT RAPIDS I-61 AFE #/PROJECT #: A983002

DATE: 99/01/18

TRANSFERRED TO: Weatherford Ft.St. John

AFE #/PROJECT #: A983002

USED FOR: 156mm bit to clean to top of latch down sub in 178mm liner.

REFERENCE
300-I61-6050-12315-0

* Condition: A - New B - Good Used C - Used Requires Repair D - Usable for Other Function E - Junk

OFFICE USE ONLY						OFFICE USE ONLY					
Class/Cat.	Sub-F.	Sequence	G.L. Acct.	S.L. Acct.	Acct. Activity	Quantity	MATERIAL (Include Serial No. Where Possible)	Cond *	%	Price-CMV	Amount
						1.00	156 mm EHP43H drill bit ser # LJ4381 Mistakingly placed in 89mm/Dp carrying basket, will be held in stock @ Weatherford Ft.St. John.	B			
TOTAL										\$	

Delivered by: Transcontinental

Received by:

Approved by:



CUSTOMER NABORS WORK ORDER NUMBER 9906204 DATE JAN 20, 1999
 FIG NUMBER 24 LOCATION FORWARD LSD J-61

220 LENGTHS 5 O.D. DRILL PIPE WEIGHT 19.92 GRADE E-75 TOOL JOINTS 44

TYPE OF INSPECTION _____

SUMMARY OF TUBE RESULTS

	Class of Pipe	Identified By Colour Code	No. of Punch Marks Pin Upset	Reason for Down Grading						
				Pin	Field	Shop	Crack	Corrosion	Other	Other
<u>216</u> - Lengths	P	Double White	1							
<u>2</u> - Lengths	#2	1 - Yellow	2	2						
- Lengths	#3	1 - Orange	3							
<u>2</u> - Lengths	#4	1 - Red	4						2	

Note: Green paint band next to tube classification bands indicates Ultrasonic End Area Inspection has been done.

White Paint Band in Centre - Band 58 Premium 58 Yellow 0 Orange 0 Red 0

Average Hard Band Condition Good

Average Internal Coating Condition Good

H2S Spot Check Positive _____ Negative X

SUMMARY OF TOOL JOINT RESULTS

Colour Code	Reason for Downgrade	Repair Practices	Pin				Box			
			P	T	G	R	P	T	G	R
Green	Damaged Seal	Field Replace	6				26	1		1
Double Green	Badly Dam. Seal or Damaged Threads	Machine Shop Repair								
Blue	Undersize O.D.	Machine Shop Repair								
Red	Cracked	Scrap								
Yellow	Improper Bevel	Field Bevel								

COMMENTS

30 PLUGGED (ORANGE IN THE MIDDLE)

INSPECTED BY JASON OCHITWA

FOIA #18

PAGE 01

0838105 DUG SLEERS

4808319040

05:02 5567/12/10



CUSTOMER: NABR'S Drilling WORK ORDER NUMBER 9901207 DATE JAN 21, 1999
 FIG NUMBER 24 LOCATION FURT LARD L.S.D. I-61

200 LENGTHS 47.0 2205 HC 50
 O.D. DRILL PIPE WEIGHT 19.50 GRADE E-75 TOOL JOINTS 4

TYPE OF INSPECTION TANKWELL E.M.T. BLACK LIGHT END AREA, ROADS TOOL JOINT
203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220

SUMMARY OF TUBE RESULTS

	Class of Pipe	Identified By Colour Code	No. of Punch Marks Pin Upset	Reason for Down Grading						
				Pin	Pin	Pin	Pin	Pin	Pin	Pin
<u>216</u> - Lengths	P	Double White	1							
<u>2</u> - Lengths	#2	1 - Yellow	2							
- Lengths	#3	1 - Orange	3							
<u>2</u> - Lengths	#4	1 - Red	4							

Note: Green paint band next to tube classification bands indicates Ultrasonic End Area Inspection has been done.

White Paint Band in Centre - Bent 56 Premium 56 Yellow 0 Orange 0 Red 0

Average Hard Band Condition Good

Average Internal Coating Condition Poor

H2S Spot Check Positive _____ Negative X

SUMMARY OF TOOL JOINT RESULTS

Colour Code	Reason for Downgrade	Repair Procedure	Pin				Box			
			P	Y	O	R	P	Y	O	R
Green	Damaged Seal	Field Reface	6				25	1		1
Double Green	Badly Dam. Seal or Damaged Threads	Machine Shop Reface								
Blue	Undersize O.D.	Machine Shop Reface								
Red	Cracked	Scrap								
Yellow	Improper Bevel	Field Bevel								

COMMENTS 30 LENGTHS RUGGED WITH CRACK, IDENTIFIED WITH ORANGE BAND IN THE CENTRE OF TUBE

INSPECTED BY JASON OCHSINA

POLR #13

PAGE 01

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CUSTOMER: NAGORS DALLING WORK ORDER NUMBER 9906203 DATE JAN 21, 1999.

RIG NUMBER 24 LOCATION East 1440 L.S.D. J-61

43 LENGTHS 5 in. O.D. DRILL PIPE WEIGHT 25.60 lbm GRADE E-YS TOOL JOINTS 9/16

TYPE OF INSPECTION TRUCK-WEAR E.C.T., BACK LOGS END AREA, 25000 TUBES, JOINT D.S.,
J.O's, BOWLS, LENGTHS, FLATROASTS AND SEALS MANDRILL.

SUMMARY OF TUBE RESULTS

	Class of Pipe	Identified By Colour Code	No. of Punch Marks Pin Upset	Reason for Down Grading						
				Pipe	Pipe at Joint	SE	Joint	Seal	Cracked	Other
<u>43</u> - Lengths	P	Double Weld	1							
- Lengths	#2	1 - Yellow	2							
- Lengths	#3	1 - Orange	3							
- Lengths	#4	1 - Red	4							

Note: Green paint band next to tube classification bands indicates Ultrasonic End Area inspection has been done.

White Paint Band in Centre - Bent 0 Premium 0 Yellow 0 Orange 0 Red 0

Average Hard Band Condition Good

Average Internal Coating Condition Good

H2S Spot Check Positive 0 Negative 0

SUMMARY OF TOOL JOINT RESULTS

Colour Code	Reason for Downgrade	Repair Procedure	Pin				Box			
			S	Y	O	R	F	Y	O	R
Green	Damaged Seal	Field Release	<u>3</u>				<u>4</u>			
Dark Green	Badly Dam. Seal or Damaged Threads	Machine Shop Repair								
Blue	Undersize O.D.	Machine Shop Repair								
Red	Cracked	Scrap								
Yellow	Improper Bevel	Field Bevel								

COMMENTS ** BLUE BAND ON OPJET IDENTIFIES SMALL O.D. (FROM HUNG 3000)

- 8 BAYS

"NAA SEALS"

- 8 BAYS

INSPECTED BY JASON OCHTUNA

MDLS #13

PAGE 20

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TOTAL P.11

JAN-22-1999 08:23

403 264 1584

93%

P.11



CUSTOMER: NABORS DRILLING WORK ORDER NUMBER 9901207 DATE JAN 21, 1999

RIG NUMBER 24 LOCATION FORT HARRIS L.S.D. T-61

12 LENGTHS 49.0 ft. O.D. DRILL PIPE WEIGHT 25.13 lb/ft GRADE E-45 TOOL JOINTS 4/16

TYPE OF INSPECTION TRANSVERSE END, BACK LIGHT END AREA, RECORD TOOL JOINTS, O.D. T.O's, BOWS, LENGTHS, SUBSIDIARIES AND SERIAL NUMBERS.

SUMMARY OF TUBE RESULTS

	Class of Pipe	Identified By Colour Code	No. of Punch Marks Pin Upset	Reason for Down Grading						
				Bent	Cracked	Corrosion	Distorted	Flare	Other	Color
<u>12</u> - Lengths	P	Double White	1							
- Lengths	#2	1 - Yellow	2							
- Lengths	#3	1 - Orange	3							
- Lengths	#4	1 - Red	4							

Note: Green paint band next to tube classification bands indicates Ultrasonic End Area Inspection has been done.

White Paint Band in Centre - Bent 0 Premium 0 Yellow 0 Orange 0 Red 0

Average Hard Band Condition Good

Average Internal Coating Condition Good

H2S Spot Check Positive 0 Negative X

SUMMARY OF TOOL JOINT RESULTS

Colour Code	Reason for Downgrade	Repair Procedure	Pin				Box			
			P	Y	O	R	P	Y	O	R
Green	Damaged Seal	Field Reface					4			
Double Green	Badly Dam. Seal or Damaged Threads	Machine Shop Repair								
Blue	Undersize O.D.	Machine Shop Repair								
Red	Cracked	Scrap								
Yellow	Improper Bevel	Field Bevel								

COMMENTS "NT" SERIES

INSPECTED BY JASON OENSTWA

POLIS #13

PAGE 03

DOUG SULLERS

4038315040

EE:GT 666T/12/10 19:33

JAN-22-1999 08:24

403 264 1584

93%

P.01



CUSTOMER Nabors Drilling
LOCATION Fort Lard I-61

WORK ORDER No. 9301207
RIG No. 24
DATE Jan 21/99

TOOL JOINT SEAL REFACING SERVICE

PIPE SIZE CONNECTION 5" D.P. 4" 4 1/2 IF conn. BEVEL DIAMETER 6 1/4 $\pm 1/64$

9 Pin Ends Retaced 33 Box Ends Retaced

 Pin Ends Bevelled Box Ends Bevelled

Summary of Refactoring:

PIN ENDS
 _____ 9 _____ Good
 _____ No Gauge

BOX ENDS
33 Good
No Gauge

NOTE: The Tool Joint that would not guage to standoff requirements were identified by two (2) green bands around tool joint. These joints require machine shop repair.

COMMENTS:

Inspected By: Chris Yank



CUSTOMER Nabors Drilling
LOCATION Fort Liard I-61

WORK ORDER No. 9901207
RIG No. 24
DATE Jan 8/1999

TOOL JOINT SEAL REFACING SERVICE

PIPE SIZE CONNECTION 6 3/4 D.C. 4W 5 H90 LPM. BEVEL DIAMETER 6 1/2 ± 1/16

 Pin Ends Refaced
 Pin Ends Bevelled

 Box Ends Refaced
 Box Ends Bevelled

Summary of Refacing:

PIN ENDS

 Good
 No Gauge

BOX ENDS

 Good
 No Gauge

NOTE: The Tool Joint that would not gauge to standoff requirements were identified by two (2) green bands around tool joint. These joints require machine shop repair.

COMMENTS:

Inspected By: Chris Young



OILFIELD INSPECTION SERVICES LTD.
BOX 1000 • MEDLEY, ALBERTA T9E 0A2 • (403) 264-1584



M

CUSTOMER Nabors Drilling
LOCATION Fort Liard I-61

WORK ORDER No. 9901207RIG No. 24DATE Jan 31

TOOL JOINT SEAL REFACING SERVICE

PIPE SIZE CONNECTION 5" HWY 4w 4 1/2 IF conn. BEVEL DIAMETER 6 1/4 $\pm 1/16$

_____ Pin Ends Refaced

3 Box Ends Refaced

_____ Pin Ends Bevelled

_____ Box Ends Bevelled

Summary of Refacing:

PIN ENDS

_____ Good

_____ No Gauge

BOX ENDS

3 Good

_____ No Gauge

NOTE: The Tool Joint that would not gauge to standoff requirements were identified by two (2) green bands around tool joint. These joints require machine shop repair.

COMMENTS:

Inspected By: Chris Young

P.O.I.S. M.

CA 1000

JAN-22-1999 08:26

CUSTOMER NAME

403 264 1584

INSPECTION DATE

93%

TOTAL P.04

P.04



PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0	DATE: 99/01/19
: 3001616050123150		CPA NO.:	DAY: 69
ICE SUPERVISOR: Nickey Sutherland		LICENCE NO.: WID#1851	
CONTRACTOR: Nabors Drig.	KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.
RIG #: 24E	GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: 99/01/18 @ 12:00 hrs.
WEATHER: Snowing		TEMP: -12 °C	WELL STATUS: POTENTIAL GAS
Midnight DEPTH: 2640.65 m	PROGRESS: 2640.65 m	FINAL TD: 2660.00 m	FORMATION: CANSLL
8:00 a.m. DEPTH: 2640.65 m	8:00 a.m. OPERATION: Taking down prefabs. Removing top drive w/ bed truck & crane	PBTD: 2640.65 m	FORMATION: CANSLL

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 22448 CUMULATIVE COST: \$ 4572294

B
H
A

LENGTH: 0.00 m	WT. BELOW JARS: daN	JAR HRS:	JAR SERIAL #:
WT. ON BIT: daN	ROTARY RPM:	STRING WT.: daN	
DRILL PIPE O.D.:	THREAD:	DRILL COLLARS O.D.:	THREAD:

 TOTAL
ROTATING
HOURS: 699.75
B
I
T
S

BIT NO	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS		
					1	2	3	IN	OUT		DRL	RND	WT&N	RPM	I	O	D	L	B	S		O	R
										0				-									
										0				-									
										0				-									

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES [] NO [X]

M
U
D

Viscosity Sec/L	DENSITY HR/OUT	pH	WE cc/30min	FC mm	FV/YP	GELS O/18	Tot. Sol. kg/m3	Dry. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OR %	CI ppm	Cu ppm	ALKALINITY MPi	MPi	°C IN/OUT
	/				/	/											/
	/				/	/											/
CENTRIFUGE			DESILTER			DESANDER			DECKSSER			TOTAL MUD DUMPED					
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3					

P
U
M
P

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	GPM	m3/MIN	MODEL	LINER mm	STROKE mm	GPM	m3/MIN	MPa	SP m/REV	OC m/REV	VELOCITY m/sec.	RHP
Emsco	140	254			Emsco	140	254			3400	0.0	0.0		0.00

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES		
AZIMUTH			DRILLING	SURVEYING				
• @	m		RIG SERV	SAFETY MTG				
• @	m		TRIPPING	HNDL TOOLS				
• @	m		CIRCULATE	PRESS TEST				
• @	m		RIG UP/DN 24.00	W/N.U. BOP				
• @	m		CLN TO BTM	BOP DRILL				
• @	m		SLIP & CUT	LOGGING				
• @	m		REAMING	PRESS TEST				
• @	m		RUN CSG	DRLG OUT				
• @	m		TOTAL HOURS: 24.00					

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.18 @ 00:00 Hours.

Tore out rig and cleaned it up. Cleaned mud tanks. Pulled liners and lubricated pump bodies. Rigged down top drive to 23:59 hours 1999.01.18.

Note #1: Rig Released 1999.01.18 @ 12:00 hours.

#2: Will lay down top drive and derrick 1999.01.19.

SUPERVISOR: D. Solberg/H. Rogerson	PHONE #: (600) 700-2629	CALLING CARD #:
------------------------------------	-------------------------	-----------------

CD 06/97

PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

W. L. NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

RIG: 24E

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

Tue Jan 19 06:33:33 1999

Target not specified.

#	DEPTH (m)	DRIFT(m)	TRUE BEARING V. SECT.		--DEFLECTION (m)--				TRUE DEPTH (m)	DLS (d/30m)
			(deg)	(m)	N+	S-	E+	W-		
1	30.00	0.25								
2	39.00	0.50								
3	49.00	0.75								
4	58.00	0.75								
5	68.00	0.75								
6	76.00	0.50								
7	86.00	0.25								
8	93.00	0.88								
9	104.00	0.50								
10	112.00	0.13								
11	122.00	0.50								
12	132.00	0.13								
13	142.00	0.13								
14	150.00	0.13								
15	61.00	0.50								
16	85.00	0.50								
17	114.00	0.13								
18	143.00	0.13								
20	158.00	0.50								
20	168.00	0.50								
21	178.00	0.50								
22	187.00	0.50								
23	197.00	0.00								
24	216.00	0.13								
25	236.00	0.75								
26	245.00	0.75								
27	255.00	0.13								
28	265.00	0.00								
29	284.00	0.75								
30	295.00	0.50								
31	304.00	0.38								
32	323.00	0.25								
33	342.00	1.00								
34	352.00	0.13								
35	372.00	0.50								
36	383.00	0.13								
37	400.00	0.50								
38	420.00	1.00								
39	429.00	0.50								
40	439.00	0.88								
41	450.00	0.88								
42	460.00	1.00								



PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

RIG: 24E

LOCATION: 300-161-6050-12315-0

CONTRACTOR: Nabors Drlg.

Tue Jan 19 06:33:34 1999

Target not specified.

#	DEPTH (m)	TRUE BEARING DRIFT(m)	V. SECT. (deg)	(m)	DEFLECTION (m)-				TRUE DEPTH (m)	DLS (d/30m)
					N+	S-	E+	W-		
43	470.00	0.88								
44	479.00	0.88								
45	490.00	0.75								
46	498.00	0.75								
47	508.00	0.75								
48	518.00	0.50								
49	527.00	0.13								
50	546.00	0.88								
51	557.00	0.50								
52	566.00	0.13								
53	588.00	0.75	355.00	3.85	3.83	-0.34			587.98	0.038
54	599.00	0.50	7.00	3.97	3.95	-0.34			598.98	0.766
55	618.00	0.25	2.00	4.09	4.08	-0.32			617.98	0.398
56	667.00	0.25	39.00	4.27	4.27	-0.25			666.98	0.097
57	714.00	1.00	32.00	4.69	4.69	0.03			713.98	0.480
58	724.00	1.00	322.00	4.84	4.84	0.02			723.98	3.441
59	743.00	1.00	17.00	5.13	5.13	-0.03			742.97	1.458
60	764.00	1.25	347.00	5.52	5.52	-0.03			763.97	0.901
61	783.00	1.25	335.00	5.92	5.91	-0.16			782.97	0.413
62	792.00	1.25	7.00	6.10	6.10	-0.19			791.96	2.297
63	802.00	1.25	352.00	6.32	6.32	-0.20			801.96	0.979
64	821.00	1.50	337.00	6.76	6.75	-0.32			820.96	0.689
65	839.00	1.50	7.00	7.21	7.20	-0.39			838.95	1.294
66	866.00	1.25	4.00	7.85	7.85	-0.32			865.94	0.289
67	893.00	1.00	0.00	8.38	8.38	-0.30			892.94	0.291
68	940.00	1.00	37.00	9.11	9.11	-0.05			939.93	0.405
69	992.00	1.00	339.00	9.90	9.90	0.06			991.92	0.559
70	1049.00	3.00	17.00	11.79	11.79	0.31			1048.89	1.208
71	1067.00	3.25	15.00	12.75	12.73	0.58			1066.86	0.455
72	1087.00	3.13	21.00	13.82	13.79	0.93			1086.83	0.532
73	1102.00	3.25	29.00	14.60	14.55	1.28			1101.81	0.921
74	1126.00	3.00	37.00	15.77	15.64	1.99			1125.77	0.628
75	1146.00	2.75	39.00	16.64	16.43	2.60			1145.75	0.404
76	1175.00	2.10	35.00	17.73	17.41	3.35			1174.72	0.694
77	1211.00	1.60	49.00	18.73	18.28	4.10			1210.70	0.559
78	1233.00	1.50	59.00	19.18	18.63	4.58			1232.69	0.393
79	1281.00	1.50	132.00	19.36	18.53	5.59			1280.68	1.115
80	1320.00	1.40	112.00	19.12	18.01	6.41			1319.67	0.395
81	1367.80	1.50	131.00	18.90	17.38	7.42			1367.45	0.307
82	1371.20	1.50	14.30	18.93	17.40	7.47			1370.85	22.533
83	1380.90	1.30	122.60	19.04	17.46	7.59			1380.55	7.028
84	1390.70	1.00	119.10	19.01	17.36	7.76			1390.35	0.943



PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

RIG: 24E

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

Tue Jan 19 06:33:36 1999

Target not specified.

#	DEPTH (m)	TRUE BEARING DRIFT(m)	V.SECT. (deg)	(m)	DEFLECTION (m)-				TRUE DEPTH (m)	DLS (d/30m)
					N+	S-	E+	W-		
85	1400.30	0.90	120.50	19.00	17.28		7.90		1399.95	0.321
86	1409.90	0.80	103.80	19.00	17.23		8.03		1409.55	0.831
87	1419.70	1.20	48.20	19.11	17.28		8.17		1419.35	3.054
88	1429.50	2.10	18.00	19.38	17.52		8.30		1429.14	3.742
89	1439.10	3.50	3.90	19.83	17.98		8.38		1438.73	4.844
90	1448.80	5.10	357.90	20.49	18.70		8.38		1448.40	5.134
91	1458.40	6.60	355.30	21.37	19.68		8.32		1457.95	4.759
92	1468.10	7.80	354.50	22.45	20.89		8.21		1467.58	3.724
93	1477.90	8.70	354.30	23.71	22.29		8.07		1477.27	2.756
94	1487.70	9.60	354.00	25.12	23.84		7.92		1486.95	2.759
95	1497.40	10.40	353.10	26.66	25.51		7.73		1496.50	2.521
96	1507.00	11.30	351.00	28.31	27.30		7.47		1505.93	3.071
97	1516.80	12.00	350.80	30.12	29.26		7.16		1515.53	2.146
98	1526.60	12.50	350.50	32.04	31.31		6.82		1525.11	1.543
99	1536.20	13.10	350.80	34.03	33.41		6.48		1534.47	1.886
100	1546.00	13.40	351.20	36.15	35.63		6.13		1544.01	0.960
101	1555.60	14.20	350.30	38.32	37.89		5.76		1553.33	2.588
102	1568.40	15.30	349.70	41.42	41.09		5.19		1565.71	2.603
103	1578.20	16.20	349.30	43.96	43.71		4.71		1575.14	2.775
104	1597.50	17.60	349.60	49.36	49.23		3.68		1593.61	2.180
105	1607.20	18.10	348.70	52.24	52.15		3.12		1602.84	1.766
106	1616.90	18.50	348.90	55.19	55.13		2.53		1612.05	1.252
107	1626.60	19.00	348.50	58.22	58.19		1.92		1621.23	1.597
108	1636.40	19.50	348.70	61.37	61.36		1.28		1630.48	1.544
109	1646.00	20.00	349.10	64.54	64.54		0.65		1639.52	1.619
110	1655.60	20.60	349.30	67.81	67.81		0.03		1648.52	1.887
111	1665.20	21.20	349.40	71.18	71.18		-0.60		1657.49	1.878
112	1674.80	21.20	349.80	74.60	74.59		-1.23		1666.44	0.452
113	1684.50	21.10	350.30	78.06	78.04		-1.83		1675.49	0.638
114	1694.20	21.00	350.40	81.51	81.47		-2.42		1684.54	0.329
115	1703.80	21.10	349.80	84.93	84.87		-3.01		1693.50	0.742
116	1713.00	21.30	349.10	88.22	88.14		-3.62		1702.08	1.052
117	1722.80	21.40	348.70	91.74	91.64		-4.31		1711.21	0.541
118	1732.50	21.30	348.90	95.24	95.11		-4.99		1720.24	0.383
119	1751.90	21.10	348.10	102.18	101.98		-6.39		1738.33	0.544
120	1761.60	21.00	347.70	105.63	105.39		-7.12		1747.38	0.541
121	1771.30	20.90	348.10	109.06	108.78		-7.85		1756.44	0.540
122	1780.90	20.70	348.50	112.44	112.12		-8.54		1765.41	0.767
123	1790.60	20.50	348.20	115.83	115.46		-9.23		1774.49	0.699
124	1800.10	20.40	347.80	119.12	118.71		-9.92		1783.39	0.543
125	1809.90	20.20	347.20	122.49	122.03		-10.65		1792.59	0.884
126	1819.60	20.30	347.40	125.82	125.30		-11.39		1801.69	0.376



PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

RIG: 24E

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

Tue Jan 19 06:33:37 1999

Target not specified.

#	DEPTH (m)	TRUE BEARING V. SECT. DRIFT(m) (deg) (m)	--DEFLECTION (m)-- N+ S- E+ W-	TRUE DEPTH (m)	DLS (d/30m)
127	1829.30	20.20 346.90 129.15	128.58 -12.14	1810.79	0.618
128	1839.00	20.00 346.90 132.45	131.82 -12.90	1819.90	0.619
129	1848.70	19.90 348.00 135.74	135.05 -13.61	1829.01	1.201
130	1858.30	20.20 348.00 139.01	138.27 -14.30	1838.03	0.938
131	1868.30	20.40 348.70 142.46	141.67 -15.00	1847.41	0.944
132	1877.30	20.10 348.90 145.56	144.73 -15.60	1855.85	1.026
133	1887.10	20.00 347.70 148.91	148.02 -16.29	1865.06	1.296
134	1896.60	20.00 345.50 152.13	151.18 -17.04	1873.99	2.376
135	1895.00	20.00 345.50 151.59	150.65 -16.90	1872.48	0.000
136	1907.00	19.80 344.50 155.63	154.59 -17.96	1883.77	0.987
137	1916.00	19.80 343.60 158.64	157.52 -18.80	1892.24	1.016
138	1925.70	19.80 342.80 161.88	160.67 -19.75	1901.36	0.838
139	1934.43	19.90 342.80 164.79	163.50 -20.62	1909.57	0.344
140	1945.00	19.80 342.50 168.33	166.92 -21.69	1919.52	0.405
141	1954.80	19.90 342.30 171.60	170.10 -22.70	1928.73	0.370
142	1964.50	19.90 341.70 174.85	173.24 -23.72	1937.85	0.632
143	1973.12	19.90 340.90 177.74	176.02 -24.66	1945.96	0.948
144	1982.63	19.90 340.60 180.91	179.07 -25.73	1954.90	0.322
145	1992.65	19.60 341.20 184.24	182.27 -26.83	1964.33	1.084
146	2003.50	19.30 341.20 187.79	185.69 -28.00	1974.56	0.829
147	2013.20	19.30 341.20 190.95	188.73 -29.03	1983.72	0.000
148	2022.90	18.90 341.10 194.07	191.73 -30.06	1992.88	1.241
149	2031.53	18.50 341.40 196.80	194.35 -30.95	2001.06	1.430
150	2042.20	18.30 341.20 200.12	197.54 -32.03	2011.18	0.590
151	2051.30	18.10 341.40 202.92	200.23 -32.94	2019.83	0.691
152	2055.60	18.00 341.90 204.24	201.50 -33.36	2023.92	1.286
153	2073.60	17.20 343.50 209.63	206.69 -34.98	2041.07	1.558
154	2080.00	16.50 343.00 211.47	208.47 -35.51	2047.20	3.351
155	2091.00	15.50 343.00 214.48	211.37 -36.40	2057.77	2.727
156	2130.00	13.10 347.00 224.07	220.66 -38.92	2095.56	1.995
157	2160.00	12.00 349.00 230.58	227.03 -40.28	2124.84	1.183
158	2207.00	9.75 353.00 239.44	235.78 -41.69	2171.00	1.514
159	2246.00	7.88 357.00 245.39	241.73 -42.24	2209.54	1.513
160	2284.00	6.75 359.00 250.19	246.56 -42.41	2247.23	0.914
161	2320.00	5.25 6.00 253.86	250.32 -42.28	2283.03	1.389
162	2359.00	5.25 20.00 257.14	253.77 -41.48	2321.87	0.983
165	2399.00	5.00 41.00 259.86	256.80 -39.71	2361.71	1.411
166	2436.00	4.50 40.00 261.86	259.13 -37.72	2398.58	0.411
167	2478.00	4.00			
168	2513.00	4.00			
169	2522.00	3.50 47.00 265.65	263.51 -33.63	2484.37	0.388
170	2561.00	2.75 46.00 266.91	264.97 -32.09	2523.31	0.578



PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

RIG: 24E

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

Tue Jan 19 06:33:39 1999

Target not specified.

#	DEPTH (m)	TRUE BEARING DRIFT(m)	V.SECT. (deg)	--DEFLECTION (m)--				TRUE DEPTH (m)	DLS (d/30m)
				N+	S-	E+	W-		
171	2600.00	2.75	26.00	268.26	266.46	-31.00	2562.27	0.734	
172	2648.00	1.50	44.00	269.63	267.95	-30.06	2610.24	0.876	

BIT RECORD

WELL NAME: CON. FOREST et al FLETT RAPIDS I-61 AFE: A983002 SPUD DATE: 98/11/13
 LOCATION: 300-161-6050-12315-0 CONTRACTOR: Nabors Drlg. RIG: 24E

Tue Jan 19 06:40:13 1999

RUN	BIT#	SIZE (mm)	TYPE	MAKE	SERIAL NUMBER	NOZZLE SIZE(mm)			--DEPTH--		--- O N B I T ---		I-O-G-L	B-G-O-R	R O P			W O B			-- R P M --			AVG MUD DEN		
						#1/4	#2/5	#3/6	IN	OUT	DRILL+CORE (m) (hr)	REAMING (m) (hr)			MIN (m/hr)	MAX (m/hr)	AVG (m/hr)	MIN daN	MAX daN	AVG daN	MIN	MAX	AVG			
1	1A	444.5	MS13GJ	Reed	R02671	15.9	15.9	15.9	0	151	140	33.50	0	0.00	4-4-WT-A	E-I -NO-TD	4.2	6.4	5.3	1000	3000	2000	110	120	115	1037
2	2A	660.4	94	Sec	RC665	19.0	19.0	19.0	27	151	0	0.00	109	20.75	5-4-WT-A	E-I -NO-TD	5.0	5.2	5.1	1000	3000	2000	50	60	55	1042
3	1B	444.5	X83	HW	D77BU	17.5	17.5	17.5	151	440	289	61.25	0	0.00	4-4-WT-A	E-I -NO-PR	4.7	6.6	5.7	3000	12000	7500	48	110	79	1066
4	2BRR	444.5	MS13GJ	REED	R02671	15.9	15.9	15.9	440	569	129	43.25	0	0.00	5-5-WT-A	E-I -NO-PR	2.2	3.0	2.6	3000	7000	5000	100	110	105	1074
5	1	311.0	F 1	SMITH	LK0668	11.9	11.9	11.9	569	592	23	6.75	0	0.00	1-1-NO-A	E-I -NO-BHA	3.4	3.6	3.5	5000	7000	6000	75	80	77	1053
6	2RR1	311.0	F 1	SMITH	LK0668	11.9	11.9	11.9	592	892	300	56.25	0	0.00	3-5-BT-G	4-I -NO-PR	5.3	7.1	6.2	7000	12000	9500	70	90	80	1054
7	3	311.0	C 2	RBI	LH1521	11.9	11.9	11.9	892	1385	383	89.00	0	0.00	2-2-WT-A	E-I -NO-BHA	4.3	6.2	5.2	9000	15000	12000	70	85	77	1079
8	4	311.0	C2	RBI	LH1400	14.3	15.9	15.9	1385	1418	33	10.50	0	0.00	2-2-WT-A	E-I -NO-BHA	3.1	3.3	3.2	10000	15000	12500	75	75	75	1083
9	5RR4	311.0	C2	RBI	LH1400	14.3	15.9	15.9	1418	1573	155	48.50	0	0.00	3-3-WT-A	E-3 -No-BHA	3.2	3.3	3.2	10000	19000	14500	75	95	85	1089
10	6	311.0	ATM22G	HW	H108T	14.3	14.3	15.9	1573	1872	299	85.75	0	0.00	3-3-WT-A	E-2 -No-BHA	3.1	3.5	3.3	10000	16000	13000	70	110	90	1107
11	7	311.0	EHP51H	REED	BM1481	14.3	14.3	15.9	1872	2073	201	67.50	0	0.00	4-8-BT-G	F-2 -BT-TD	3.0	3.6	3.3	14000	18000	16000	70	110	90	1205
12	8RR	311.0	C2	RBI	LH1400	15.9	15.9	15.9	2073	2073	0	0.00	15	0.75	4-4-WT-A	E-3 -NO-BHA	0.0	0.0	0.0	1000	3000	2000	0	0	0	
13	9RR	311.0	C2	RBI	LH1400	15.9	15.9	15.9	2073	2073	0	0.00	0	0.00	4-4-WT-A	E-3 -WT-LOG	0.0	0.0	0.0	1000	3000	2000	0	0	0	
14	1B	215.9	HP-11	REED	TC1097	7.9	7.9	7.9	2073	2083	10	2.50	0	0.00	2-2-WT-A	E-1 -NO-BHA	4.0	4.0	4.0	6000	10000	8000	60	75	67	1068
15	2B	215.9	GS84F	SEC	680230	7.9	7.9	7.9	2083	2395	312	77.25	0	0.00	7-8-BT-A	F-7 -RG-Log	3.4	4.4	3.9	12000	16000	14000	60	70	65	1100
16	3B	215.9	F3P	Smith	LS0830	8.7	8.7	8.7	2395	2571	176	57.75	18	2.50	8-8-BT-A	E-I -LT-PR	3.0	4.6	3.8	16000	17000	16500	60	65	62	1148
17	4B	215.9	C45LRG	RBI	BP7538	8.7	8.7	8.7	2571	2660	89	29.75	0	0.00	4-4-BT-A	E-I -NO-LOG	3.0	3.2	3.1	16000	17000	16500	55	60	57	1152
18	5BRR	215.9	HP11	Reed	TC1097	9.5	9.5	9.5	2660		0	0.00	0	0.00	- - -	- - -	0.0	0.0	0.0	0	0	0	0	0	0	
18	5Brr	215.9	HP11	Reed	TC1097	9.5	9.5	9.5	2660		0	0.00	0	0.00	2-2-WT-A	- - -	0.0	0.0	0.0	0	0	0	0	0	0	
19	1L	156.0	EHP43H	Reed	LJ4381	0.0	0.0	0.0	1899		0	0.00	41	2.50	2-2-NO-A	- - -	7.8	7.8	7.8	1000	2000	1500	50	60	55	

JAN-19-1999 08:31

403 264 1584

93%

TOTAL P.10
P.10

JAN-19-1999

08:26

FROM PAJAK ENGINEERING LTD.

TO

NEB

P.10

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS I-61 3001616050123150		LOCATION: 300-161-6050-12315-0 CPA NO.:		DATE: 99/01/20 DAY: 68	
SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drig.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: 99/01/18 @ 12:00 hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS: POTENTIAL GAS	
WEATHER: Overcast		TEMP: -19 °C		FINAL TD: 2660.00 m FORMATION: CANCELL	
Midnight DEPTH: 2640.65 m		PROGRESS: 0.00 m		PSTD: 2640.65 m FORMATION: CANCELL	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Demobilize Nabors Rig #24E.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 19395 CUMULATIVE COST: \$ 4591689

B
H
A

LENGTH: 0.00 m		WT. BELOW JARS: 44N		JAR HRS:		JAR SERIAL #:		TOTAL ROTATING HOURS: 699.75
WT. ON BIT: 44N		ROTARY RPM:		STRING WT.: 44N				
DRILL PIPE O.D.:		THREAD:		DRILL COLLARS O.D.:		THREAD:		
								NO. IN HOLE:

B
I
T
S

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTR PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT						REMARKS				
					1	2	3	IN	OUT		DR	SD	WTR	RPM	I	O	D	L	B	S		G	R		
										0				-											
										0				-											
										0				-											

 LAST PIPE TALLY: 2661.51 BOARD: 2660.00 CORRECTION: YES ☐ NO ☒
M
U
D

Viscosity Cp/L	DENSITY IN/OUT	pH	WL cc/30min	FC min	FW/PP	GELS 0.5%	Tm. Sol. kg/m3	D/d. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OL %	CL ppm	Ca ppm	ALKALINITY MFI MFO	°C IN/OUT	
	/				/	/										/	
	/				/	/										/	
CENTRIFUGE				DESKTER				DESKTER				DESKTER				TOTAL MUD DUMPED	
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3				

P
U
M
P

PUMP NO. 1					PUMP NO. 2					PRESSURE		ANGULAR VELOCITY		JET	
MODEL	LINER	STROKE	SPM	WTR/HR	MODEL	LINER	STROKE	SPM	WTR/HR	MPa	OP m/HR	BC m/HR	VELOCITY m/sec	HRP	
Emsco	140	254			Emsco	140	254			3400	0.0	0.0		0.00	

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES		
AZIMUTH			DRILLING	SURVEYING				
• @	m		RIG SERV	SAFETY MTG	0.50			
• @	m		TRIPPING	WDL TOOLS				
• @	m		CIRCULATE	PRESS TEST				
• @	m		RIG UP/DN	W/N.U. BOP				
• @	m		CLN TO BTH	BOP DRILL				
• @	m		SLIP & CUT	LOGGING				
• @	m		REARING	PRESS TEST				
• @	m		RUN CSG	DRLG OUT				
• @	m		TOTAL HOURS: 22.00					

MUD COMMENTS:

 DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
 1999.01.19 @ 00:00 Hours.

Rigged out floor and sub prefabs, 400 barrel tanks, cement bins, Wadeco equipment and top drive. Rigged up and lowered derrick @ 16:30 hours 1999.01.19. Rigged out mud tanks, boiler, water and steam lines to 22:00 hours 1999.01.19.

Note #1: Held daily meeting with both crews:

Topics: (a) Rig move. (b) Lowering derrick.

#2: Arranged for truck push, second crane and second bed truck with crown bunk to demobilize rig and prepare rig components for suck on loads for Wednesday morning 1999.01.20.

SUPERVISOR: D. Solberg/M. Rogerson PHONE #: (600) 700-2629 CALLING CARD#:

CD 06/97



PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME:	CDN FOREST et al FLETT RAPIDS I-61	DATE:	99/01/20
LOCATION:	300-I61-6050-12315-0	U.W.I.:	300I616050123150
DAY:	68	DEPTH:	2640.65 m
PROGRESS:	0.00 m	CPA NO.:	
WEATHER:	Overcast	TEMP:	-19 °C
8:00 a.m. OPERATION: Demobilize Nabors Rig #24E.			

DRILLING & GEOLOGICAL REMARKS (Cont'd)

- Note #3: Boiler down @ 12:00 hours 1999.01.19.
- #4: Premium pipe inspection: Refaced HWDP seals, 100 of 270 joints checked all premium pipe (no defects). 8 joints required refacing.
- #5: 42 KW genset to run wellsite units for service rig arrived on location 13:30 hours 1999.01.19.

REPORTED BY: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

CD 06/97



PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

RIG: 24E

Wed Jan 20 06:33:31 1999

Target not specified.

#	DEPTH (m)	TRUE BEARING V. SECT. DRIFT(m) (deg)	--DEFLECTION (m)--				TRUE DEPTH (m)	DLS (d/30m)
			N+	S-	E+	W-		
1	30.00	0.25						
2	39.00	0.50						
3	49.00	0.75						
4	58.00	0.75						
5	68.00	0.75						
6	76.00	0.50						
7	86.00	0.25						
8	93.00	0.88						
9	104.00	0.50						
10	112.00	0.13						
11	122.00	0.50						
12	132.00	0.13						
13	142.00	0.13						
14	150.00	0.13						
15	61.00	0.50						
16	85.00	0.50						
17	114.00	0.13						
18	143.00	0.13						
20	158.00	0.50						
20	168.00	0.50						
21	178.00	0.50						
22	187.00	0.50						
23	197.00	0.00						
24	216.00	0.13						
25	236.00	0.75						
26	245.00	0.75						
27	255.00	0.13						
28	265.00	0.00						
29	284.00	0.75						
30	295.00	0.50						
31	304.00	0.38						
32	323.00	0.25						
33	342.00	1.00						
34	352.00	0.13						
35	372.00	0.50						
36	383.00	0.13						
37	400.00	0.50						
38	420.00	1.00						
39	429.00	0.50						
40	439.00	0.88						
41	450.00	0.88						
42	460.00	1.00						



PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

RIG: 24E

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

Wed Jan 20 06:33:32 1999

Target not specified.

#	DEPTH (m)	TRUE BEARING V. SECT. DRIFT(m)	(deg)	(m)	--DEFLECTION (m)--				TRUE DEPTH (m)	DLS (d/30m)
					N+	S-	E+	W-		
43	470.00	0.88								
44	479.00	0.88								
45	490.00	0.75								
46	498.00	0.75								
47	508.00	0.75								
48	518.00	0.50								
49	527.00	0.13								
50	546.00	0.88								
51	557.00	0.50								
52	566.00	0.13								
53	588.00	0.75	355.00	3.85	3.83		-0.34		587.98	0.038
54	599.00	0.50	7.00	3.97	3.95		-0.34		598.98	0.766
55	618.00	0.25	2.00	4.09	4.08		-0.32		617.98	0.398
56	667.00	0.25	39.00	4.27	4.27		-0.25		666.98	0.097
57	714.00	1.00	32.00	4.69	4.69		0.03		713.98	0.480
58	724.00	1.00	322.00	4.84	4.84		0.02		723.98	3.441
59	743.00	1.00	17.00	5.13	5.13		-0.03		742.97	1.458
60	764.00	1.25	347.00	5.52	5.52		-0.03		763.97	0.901
61	783.00	1.25	335.00	5.92	5.91		-0.16		782.97	0.413
62	792.00	1.25	7.00	6.10	6.10		-0.19		791.96	2.297
63	802.00	1.25	352.00	6.32	6.32		-0.20		801.96	0.979
64	821.00	1.50	337.00	6.76	6.75		-0.32		820.96	0.689
65	839.00	1.50	7.00	7.21	7.20		-0.39		838.95	1.294
66	866.00	1.25	4.00	7.85	7.85		-0.32		865.94	0.289
67	893.00	1.00	0.00	8.38	8.38		-0.30		892.94	0.291
68	940.00	1.00	37.00	9.11	9.11		-0.05		939.93	0.405
69	992.00	1.00	339.00	9.90	9.90		0.06		991.92	0.559
70	1049.00	3.00	17.00	11.79	11.79		0.31		1048.89	1.208
71	1067.00	3.25	15.00	12.75	12.73		0.58		1066.86	0.455
72	1087.00	3.13	21.00	13.82	13.79		0.93		1086.83	0.532
73	1102.00	3.25	29.00	14.60	14.55		1.28		1101.81	0.921
74	1126.00	3.00	37.00	15.77	15.64		1.99		1125.77	0.628
75	1146.00	2.75	39.00	16.64	16.43		2.60		1145.75	0.404
76	1175.00	2.10	35.00	17.73	17.41		3.35		1174.72	0.694
77	1211.00	1.60	49.00	18.73	18.28		4.10		1210.70	0.559
78	1233.00	1.50	59.00	19.18	18.63		4.58		1232.69	0.393
79	1281.00	1.50	132.00	19.36	18.53		5.59		1280.68	1.115
80	1320.00	1.40	112.00	19.12	18.01		6.41		1319.67	0.395
81	1367.80	1.50	131.00	18.90	17.38		7.42		1367.45	0.307
82	1371.20	1.50	14.30	18.93	17.40		7.47		1370.85	22.533
83	1380.90	1.30	122.60	19.04	17.46		7.59		1380.55	7.028
84	1390.70	1.00	119.10	19.01	17.36		7.76		1390.35	0.943



PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

RIG: 24E

Wed Jan 20 06:33:33 1999

Target not specified.

#	DEPTH (m)	TRUE BEARING V. SECT. DRIFT(m)	(deg)	(m)	--DEFLECTION (m)--				TRUE DEPTH (m)	DLS (d/30m)
					N+	S-	E+	W-		
85	1400.30	0.90	120.50	19.00	17.28		7.90		1399.95	0.321
86	1409.90	0.80	103.80	19.00	17.23		8.03		1409.55	0.831
87	1419.70	1.20	48.20	19.11	17.28		8.17		1419.35	3.054
88	1429.50	2.10	18.00	19.38	17.52		8.30		1429.14	3.742
89	1439.10	3.50	3.90	19.83	17.98		8.38		1438.73	4.844
90	1448.80	5.10	357.90	20.49	18.70		8.38		1448.40	5.134
91	1458.40	6.60	355.30	21.37	19.68		8.32		1457.95	4.759
92	1468.10	7.80	354.50	22.45	20.89		8.21		1467.58	3.724
93	1477.90	8.70	354.30	23.71	22.29		8.07		1477.27	2.756
94	1487.70	9.60	354.00	25.12	23.84		7.92		1486.95	2.759
95	1497.40	10.40	353.10	26.66	25.51		7.73		1496.50	2.521
96	1507.00	11.30	351.00	28.31	27.30		7.47		1505.93	3.071
97	1516.80	12.00	350.80	30.12	29.26		7.16		1515.53	2.146
98	1526.60	12.50	350.50	32.04	31.31		6.82		1525.11	1.543
99	1536.20	13.10	350.80	34.03	33.41		6.48		1534.47	1.886
100	1546.00	13.40	351.20	36.15	35.63		6.13		1544.01	0.960
101	1555.60	14.20	350.30	38.32	37.89		5.76		1553.33	2.588
102	1568.40	15.30	349.70	41.42	41.09		5.19		1565.71	2.603
103	1578.20	16.20	349.30	43.96	43.71		4.71		1575.14	2.775
104	1597.50	17.60	349.60	49.36	49.23		3.68		1593.61	2.180
105	1607.20	18.10	348.70	52.24	52.15		3.12		1602.84	1.766
106	1616.90	18.50	348.90	55.19	55.13		2.53		1612.05	1.252
107	1626.60	19.00	348.50	58.22	58.19		1.92		1621.23	1.597
108	1636.40	19.50	348.70	61.37	61.36		1.28		1630.48	1.544
109	1646.00	20.00	349.10	64.54	64.54		0.65		1639.52	1.619
110	1655.60	20.60	349.30	67.81	67.81		0.03		1648.52	1.887
111	1665.20	21.20	349.40	71.18	71.18		-0.60		1657.49	1.878
112	1674.80	21.20	349.80	74.60	74.59		-1.23		1666.44	0.452
113	1684.50	21.10	350.30	78.06	78.04		-1.83		1675.49	0.638
114	1694.20	21.00	350.40	81.51	81.47		-2.42		1684.54	0.329
115	1703.80	21.10	349.80	84.93	84.87		-3.01		1693.50	0.742
116	1713.00	21.30	349.10	88.22	88.14		-3.62		1702.08	1.052
117	1722.80	21.40	348.70	91.74	91.64		-4.31		1711.21	0.541
118	1732.50	21.30	348.90	95.24	95.11		-4.99		1720.24	0.383
119	1751.90	21.10	348.10	102.18	101.98		-6.39		1738.33	0.544
120	1761.60	21.00	347.70	105.63	105.39		-7.12		1747.38	0.541
121	1771.30	20.90	348.10	109.06	108.78		-7.85		1756.44	0.540
122	1780.90	20.70	348.50	112.44	112.12		-8.54		1765.41	0.767
123	1790.60	20.50	348.20	115.83	115.46		-9.23		1774.49	0.699
124	1800.10	20.40	347.80	119.12	118.71		-9.92		1783.39	0.543
125	1809.90	20.20	347.20	122.49	122.03		-10.65		1792.59	0.884
126	1819.60	20.30	347.40	125.82	125.30		-11.39		1801.69	0.376

PAJAK ENGINEERING LTD.

SURVEY RECORD (Minimum curvature method)

W. NAME: CDN. FOREST et al FLETT RAPIDS I-61

AFE: A983002

RIG: 24E

LOCATION: 300-I61-6050-12315-0

CONTRACTOR: Nabors Drlg.

Wed Jan 20 06:33:35 1999

Target not specified.

#	DEPTH (m)	TRUE BEARING V. SECT.			--DEFLECTION (m)--				TRUE DEPTH (m)	DLS (d/30m)
		DRIFT(m)	(deg)	(m)	N+	S-	E+	W-		
127	1829.30	20.20	346.90	129.15	128.58	-12.14			1810.79	0.618
128	1839.00	20.00	346.90	132.45	131.82	-12.90			1819.90	0.619
129	1848.70	19.90	348.00	135.74	135.05	-13.61			1829.01	1.201
130	1858.30	20.20	348.00	139.01	138.27	-14.30			1838.03	0.938
131	1868.30	20.40	348.70	142.46	141.67	-15.00			1847.41	0.944
132	1877.30	20.10	348.90	145.56	144.73	-15.60			1855.85	1.026
133	1887.10	20.00	347.70	148.91	148.02	-16.29			1865.06	1.296
134	1896.60	20.00	345.50	152.13	151.18	-17.04			1873.99	2.376
135	1895.00	20.00	345.50	151.59	150.65	-16.90			1872.48	0.000
136	1907.00	19.80	344.50	155.63	154.59	-17.96			1883.77	0.987
137	1916.00	19.80	343.60	158.64	157.52	-18.80			1892.24	1.016
138	1925.70	19.80	342.80	161.88	160.67	-19.75			1901.36	0.838
139	1934.43	19.90	342.80	164.79	163.50	-20.62			1909.57	0.344
140	1945.00	19.80	342.50	168.33	166.92	-21.69			1919.52	0.405
141	1954.80	19.90	342.30	171.60	170.10	-22.70			1928.73	0.370
142	1964.50	19.90	341.70	174.85	173.24	-23.72			1937.85	0.632
143	1973.12	19.90	340.90	177.74	176.02	-24.66			1945.96	0.948
144	1982.63	19.90	340.60	180.91	179.07	-25.73			1954.90	0.322
145	1992.65	19.60	341.20	184.24	182.27	-26.83			1964.33	1.084
146	2003.50	19.30	341.20	187.79	185.69	-28.00			1974.56	0.829
147	2013.20	19.30	341.20	190.95	188.73	-29.03			1983.72	0.000
148	2022.90	18.90	341.10	194.07	191.73	-30.06			1992.88	1.241
149	2031.53	18.50	341.40	196.80	194.35	-30.95			2001.06	1.430
150	2042.20	18.30	341.20	200.12	197.54	-32.03			2011.18	0.590
151	2051.30	18.10	341.40	202.92	200.23	-32.94			2019.83	0.691
152	2055.60	18.00	341.90	204.24	201.50	-33.36			2023.92	1.286
153	2073.60	17.20	343.50	209.63	206.69	-34.98			2041.07	1.558
154	2080.00	16.50	343.00	211.47	208.47	-35.51			2047.20	3.351
155	2091.00	15.50	343.00	214.48	211.37	-36.40			2057.77	2.727
156	2130.00	13.10	347.00	224.07	220.66	-38.92			2095.56	1.995
157	2160.00	12.00	349.00	230.58	227.03	-40.28			2124.84	1.183
158	2207.00	9.75	353.00	239.44	235.78	-41.69			2171.00	1.514
159	2246.00	7.88	357.00	245.39	241.73	-42.24			2209.54	1.513
160	2284.00	6.75	359.00	250.19	246.56	-42.41			2247.23	0.914
161	2320.00	5.25	6.00	253.86	250.32	-42.28			2283.03	1.389
162	2359.00	5.25	20.00	257.14	253.77	-41.48			2321.87	0.983
165	2399.00	5.00	41.00	259.86	256.80	-39.71			2361.71	1.411
166	2436.00	4.50	40.00	261.86	259.13	-37.72			2398.58	0.411
167	2478.00	4.00								
168	2513.00	4.00								
169	2522.00	3.50	47.00	265.65	263.51	-33.63			2484.37	0.388
170	2561.00	2.75	46.00	266.91	264.97	-32.09			2523.31	0.578



PAJAK ENGINEERING LTD.

S U R V E Y R E C O R D (Minimum curvature method)

NAME: CDN. FOREST et al FLETT RAPIDS I-61	AFE: A983002
LOCATION: 300-I61-6050-12315-0	RIG: 24E
CONTRACTOR: Nabors Drlg.	

Wed Jan 20 06:33:36 1999

Target not specified.

#	DEPTH (m)	DRIFT(m)	TRUE BEARING V. SECT.		--DEFLECTION (m)--				TRUE DEPTH (m)	DLS (d/30m)
			(deg)	(m)	N+	S-	E+	W-		
171	2600.00	2.75	26.00	268.26	266.46	-31.00	2562.27	0.734		
172	2648.00	1.50	44.00	269.63	267.95	-30.06	2610.24	0.876		

JAN-20-1999 08:26

403 264 1584

93%

TOTAL P.11
P.11

B I T R E C O R D

WELL NAME: CON. FOREST et al FLETT RAPIDS I-61

AFE: A983002

SPUD DATE: 98/11/13

LOCATION: 300-161-6050-12315-0

CONTRACTOR: Nabors Drilg.

RIG: 24E

Wed Jan 20 06:53:27 1999

RUN	BIT#	SIZE (mm)	TYPE	MAKE	SERIAL NUMBER	NOZZLE SIZE(mm)			DEPTH--		DRILL+CORE		REAMING		I-O-G-L		R O P			W O B			R P M			AVG MUD DEN
						#1/4	#2/5	#3/6	IN	OUT	(m)	(hr)	(m)	(hr)			MIN (m/hr)	MAX (m/hr)	AVG (m/hr)	MIN daN	MAX daN	AVG daN	MIN	MAX	AVG	
1	1A	444.5	H5136J	Reed	R02671	15.9	15.9	15.9	0	151	140	33.50	0	0.00	4-4-WT-A	E-1 -NO-TB	4.2	6.4	5.3	1000	3000	2000	110	120	115	1037
2	2A	660.4	94	Sec	RC665	15.9	19.0	19.0	27	151	0	0.00	109	20.75	5-4-WT-A	E-1 -NO-TB	5.0	5.2	5.1	1000	3000	2000	50	60	55	1042
3	1B	444.5	X83	HM	D77BU	19.0	19.0	19.0																		
3	1B	444.5	X83	HM	D77BU	17.5	17.5	17.5	151	440	289	61.25	0	0.00	4-4-WT-A	E-1 -NO-PR	4.7	6.6	5.7	3000	12000	7500	48	110	79	1066
4	2BRR	444.5	H5136J	REED	R02671	15.9	15.9	15.9	440	569	129	43.25	0	0.00	5-3-WT-A	E-1 -NO-PR	2.2	3.0	2.6	3000	7000	5000	100	110	105	1074
5	1	311.0	F 1	SMITH	LK0668	15.9	11.9	11.9	569	592	23	6.75	0	0.00	1-1-NO-A	E-1 -NO-BHA	3.4	3.6	3.5	5000	7000	6000	75	80	77	1053
6	2RR1	311.0	F 1	SMITH	LK0668	11.9	11.9	11.9	592	892	300	56.25	0	0.00	3-3-BT-B	4-1 -NO-PR	5.3	7.1	6.2	7000	12000	9500	70	90	80	1054
7	3	311.0	C 2	RBI	LH1521	11.9	11.9	11.9	892	1385	383	89.00	0	0.00	2-2-WT-A	E-1 -NO-BHA	4.3	6.2	5.2	9000	15000	12000	70	85	77	1079
8	4	311.0	C2	RBI	LH1400	14.3	15.9	15.9	1385	1418	33	10.50	0	0.00	2-2-WT-A	E-1 -NO-BHA	3.1	3.3	3.2	10000	15000	12500	75	75	75	1083
9	5RR4	311.0	C2	RBI	LH1400	14.3	15.9	15.9	1418	1573	155	48.50	0	0.00	3-3-WT-A	E-3 -NO-BHA	3.2	3.3	3.2	10000	19000	14500	75	95	85	1089
10	6	311.0	ATW226	HM	H10BT	14.3	14.3	15.9	1573	1872	299	85.75	0	0.00	3-3-WT-A	E-2 -NO-BHA	3.1	3.5	3.3	10000	16000	13000	70	110	90	1107
11	7	311.0	BHP51H	REED	BW1481	14.3	14.3	15.9	1872	2073	201	67.50	0	0.00	4-8-BT-G	F-2 -BT-TD	3.0	3.6	3.3	14000	18000	16000	70	110	90	1205
12	8RR	311.0	C2	RBI	LH1400	15.9	15.9	15.9	2073	2073	0	0.00	15	0.75	4-4-WT-A	E-3 -NO-BHA	0.0	0.0	0.0	1000	3000	2000	0	0	0	
13	9RR	311.0	C2	RBI	LH1400	15.9	15.9	15.9	2073	2073	0	0.00	0	0.00	4-4-WT-A	E-3 -WT-LOG	0.0	0.0	0.0	1000	3000	2000	0	0	0	
14	18	215.9	HP-11	REED	TC1097	7.9	7.9	7.9	2073	2083	10	2.50	0	0.00	2-2-WT-A	E-1 -NO-BHA	4.0	4.0	4.0	6000	10000	8000	60	75	67	1068
15	28	215.9	6884F	SEC	680230	7.9	7.9	7.9	2083	2395	312	77.25	0	0.00	7-8-BT-A	F-7 -RG-Log	3.4	4.4	3.9	12000	16000	14000	60	70	65	1103
16	38	215.9	F3P	Smith	LS0830	8.7	8.7	8.7	2395	2571	176	57.75	18	2.50	8-8-BT-A	E-1 -LT-PR	3.0	4.6	3.8	16000	17000	16500	60	65	62	1148
17	48	215.9	C45LRS	RBI	BP753B	8.7	8.7	8.7	2571	2660	89	29.75	0	0.00	4-4-BT-A	E-1 -NO-LOG	3.0	3.2	3.1	16000	17000	16500	55	60	57	1152
18	58RR	215.9	HP11	Reed	TC1097	9.5	9.5	9.5	2660		0	0.00	0	0.00	- - -	- - -	0.0	0.0	0.0	0	0	0	0	0	0	0
18	58RR	215.9	HP11	Reed	TC1097	9.5	9.5	9.5	2660		0	0.00	0	0.00	2-2-WT-A	- - -	0.0	0.0	0.0	0	0	0	0	0	0	0
19	1L	156.0	ENP43H	Reed	LJ4381	0.0	0.0	0.0	1899		0	0.00	41	2.50	2-2-NO-A	- - -	7.8	7.8	7.8	1000	2000	1500	50	60	55	

JAN-20-1999 08:20

FROM PAJAK ENGINEERING LTD.

TO

NEB P.11



DAILY DRILLING REPORT

WELL NAME: CON FOREST et al FLETT RAPIDS 1-61 W.I.: 3001616050123150		LOCATION: 300-161-6050-12315-0 CPA NO.:		DATE: 99/01/18 DAY: 67	
OFFICE SUPERVISOR: Nickey Sutherland CONTRACTOR: Nabors Drlg. RIG #: 24E		KB: 262.5 m KB-GL: 7.5 m GL: 255.0 m KB-CF: 6.9 m		LICENCE NO.: WIDP1851 SPUD DATE: 98/11/13 @ 12:15 hrs. RIG RELEASE: @ : hrs. WELL STATUS:	
WEATHER: Light Flurries Midnight DEPTH: 2640.65 m 8:00 a.m. DEPTH: 2640.65 m		TEMP: -12 °C PROGRESS: 0.00 m 8:00 a.m. OPERATION: Tear out & clean mud tanks.		FINAL TD: 2660.00 m PSTD: 2640.65 m FORMATION: CANSSELL FORMATION: CANSSELL	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 79968 CUMULATIVE COST: \$ 4549846

B
H
A

1 155.6mm bit		1 122mm bitsub		80 89mm dp		1 x/o	
LENGTH: 763.58 m		WT. BELOW JARS: daN		JAR HRS:		JAR SERIAL #:	
WT. ON BIT: 2000 daN		ROTARY RPM:		STRING WT.: 81000 daN			
DRILL PIPE O.D.: 89		THREAD: 88.9 mm IF		DRILL COLLARS O.D.:		THREAD:	
127		114 mm IF					

TOTAL ROTATING HOURS:	699.75
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B
I
T
S

BIT NO.	SIZE mm	NAME	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTBS	MTBS PER HOUR	ROUNDS ON BIT		BIT		CUTTING STRUCT					REMARKS			
					1	2	3	IN	OUT			DIL.	RND	WYDIL	RPM	I	O	D	L	S	C	O	R	
										0				-										
										0				-										
1L	156.0	Reed	LJ4381	ENP43H	0.0	0.0	0.0	1899	2640	741	7.8	5.25		1-2		2	2	NO	A	E	I	NO	TD	

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES ☐ NO ☒

M
U
D

Viscosity Sec/l	DENSITY kg/OUT	pH	WL cc/100ml	FE mm	FW/TP	GELS 0/10	Tot. Sol kg/m3	DYS. Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCR kg/m3	CL %	CL ppm	CL ppm	ALKALINITY MFI	MFI	°C IN/OUT
60	1180/1160	9.5	8.4	0.5	21/ 8.0	3.0/6.0	100.00		10.00	100		6000.	1300	40	0.4	2.0	58/ 59
	/				/	/											/
CENTRIFUGE					OPERATOR			DEMANDER			DEMANDER			TOTAL MUD DUMPED			
NR IN		kg/m3		OUT		kg/m3		NR OUT		kg/m3		NR OUT		kg/m3		m3	

P
U
M
P

PUMP NO. 1					PUMP NO. 2					PRESSURE		ANGULAR VELOCITY		JET	
TYPE F-1000					TYPE F-1000										
MODEL	LINER mm	STROKE mm	SPM	ml/min	MODEL	LINER mm	STROKE mm	SPM	ml/min	MPa	OP m/min	DC m/min	VELOCITY m/sec.	RHP	
Ensco	140	254			Ensco	140	254			3400	0.0	0.0		0.00	

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES		
AZIMUTH			DRILLING			Barite 175		
• @	m		SURVEYING			Sod Sulf 5		
• @	m		RIG SERV			SAFETY MTG 0.25		
• @	m		TRIPPING 7.00			HNDL TOOLS 1.00		
• @	m		CIRCULATE			PRESS TEST		
• @	m		RIG UP/DN 5.00			W/W.U. BOP 10.75		
• @	m		CLN TO BTH			BOP DRILL		
• @	m		SLIP & CUT			LOGGING		
• @	m		REAMING			PRESS TEST		
• @	m		RUN CSG			DRLG OUT		
• @	m		TOTAL HOURS: 24.00					
• @	m					Caustic 7		

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Coring, Corroding, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.17 @ 00:00 hours.

Laid down 127mm drill pipe. Nippled down BOP stack and cleaned mud tanks. Installed 346mm x 279mm 35 MPa tubing head and top section. Pressure tested to 21 MPa for 15 minutes, held OK. Tore out rig and cleaned mud tanks to 23:59 hours 1999.01.17.

Note #1: #2 boiler shut down @ 12:00 hours 1999.01.17.

#2: Earliest opportunity to get crane and bed truck to take down top drive is Tuesday 1999.01.19.

#3: Held daily meeting with crews.

Topic: Rigging out laydown machine.

#4: See attached wellhead diagram (3 pages).

SUPERVISOR: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

CD 01/97

MATERIAL TRANSFER

M.T. NO. 14-0018

TRANSFERRED FROM: CDN FOREST et al FLETT RAPIDS I-61

AFE #/PROJECT #: A983002

DATE: 99/01/17

TRANSFERRED TO: Vetco Gray Ft.St. John

AFE #/PROJECT #: A983002

USED FOR: 339.7mm casing

REFERENCE
300-I61-6050-12315-0

* Condition: A - New B - Good Used C - Used Requires Repair D - Usable for Other Function E - Junk

OFFICE USE ONLY									OFFICE USE ONLY		
Class/Cat.	Sub-F.	Sequence	G.L. Acct.	S.L. Acct.	Acct. Activity	Quantity	MATERIAL (Include Serial No. Where Possible)	Cond *	%	Price-CMV	Amount
						1.00	339.7 mm test plug	A			
						1.00	339.7 wear bushing	B			
						1.00	346 mm Drilling spool ser# 23840-01 Hold in stock in Ft.St.John	B			

Delivered by: Vetco Gray

Received by: Russ Gardner

Approved by:

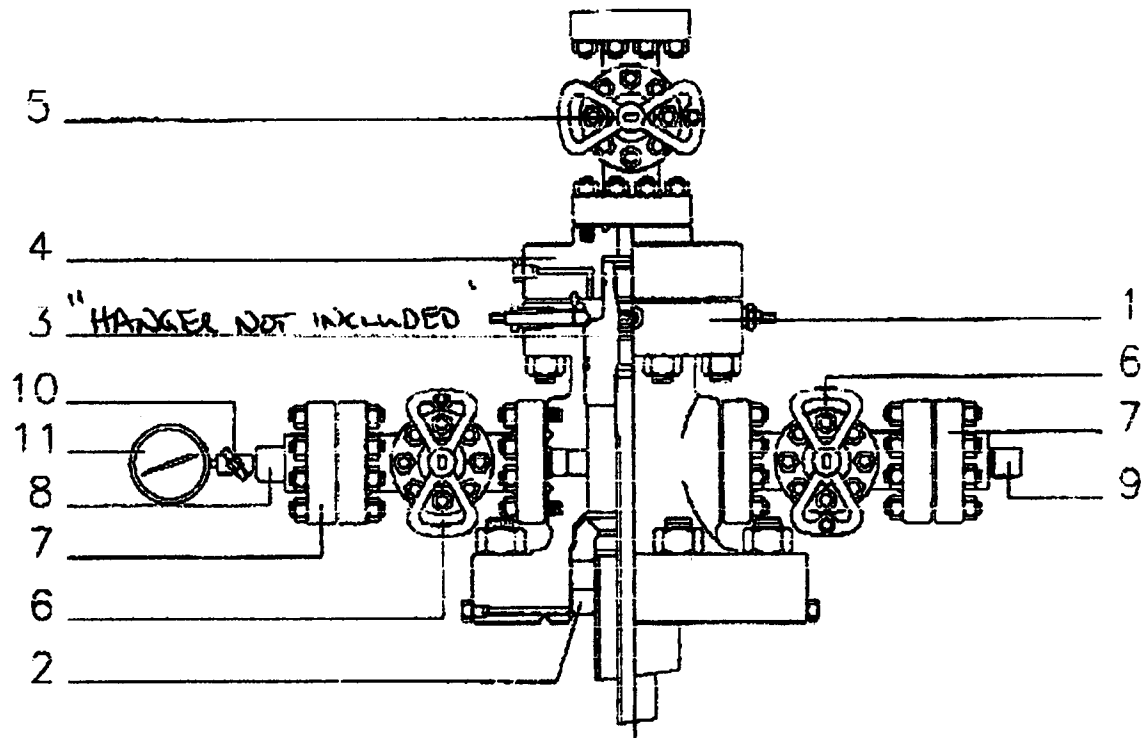
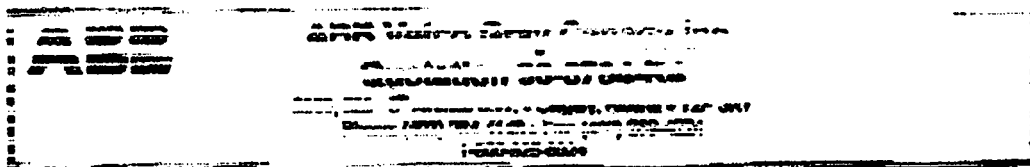


ABB
ABB Vetco Gray Canada Inc.

Quotation 98-6764-R2
For: Canadian Forest Oil Ltd.
Re: Fort Liard Field Rapids #1-61

*** TOTAL PAGE.04 ***



Date: December 16, 1998

To: Canadian Forest Oil Ltd. / Pajak Eng.

Reference: Fort Liard Fleet Rapids #1-61

Attention: Mr. Keith Hynes / Mr. Larry Thorhaug

Delivery: 3 weeks x plant

F.O.B. Point: Edmonton, Alberta

Payment Terms: Net 30 Days

Quotation Validity: 90 Days

Account Representative: Mr. Bill Rattigson

Per Standard ABB Valve Seal Company Terms And Conditions Attached

Item	Qty	Description	Unit	Total
1.	1	ABB VG-OF tubing head: 13 5/8" 5000# x 11" 5000# c/w 2-2 1/16" 5000# SSO, L, DD, PR-1, PSL-3	6630.00	6630.00
2.	1	ABB GRF secondary seal: 13 5/8" x 9 5/8" c/w snap ring, L, DD, PR-1, PSL-2, c/w HSN rubber	845.00	845.00
* 3.	1	ABB XP-1 tubing hanger: 11" x 3 1/2" Premium thread, extended neck up c/w 3" B.P.V threads, L, DD, PR-1, PSL-3	1222.00	1222.00

HAXIEE NOT INCLUDED.

Quotation 88-5754-R4

Page 2

Item	Qty.	Description	Unit	Total
4.	1	ABB XP-1 adapter flange: 11" 5000# x 3 1/8" 5000# SSU c/w seal pocket & test ports PSL-3,L, DD, PR-1,	2400.00	2400.00
5.	1	ABB VGC gate valve: 3 1/8" 5000# flanged, full opening, PSL-3,L-U, EE, PR-1,	5450.00	5450.00
6.	2	ABB VGC gate valve: 2 1/16" 5000# flanged, full opening, PSL-2,L,DD, PR-1	2607.01	5214.02
7.	2	Companion flange: 2 1/16" 5000# x 2" LP, PSL-2,L, DD, PR-1,	131.67	263.34
8.	1	Bull plug: 2" LP XXH c/w 1/2" NPT tap	27.55	27.55
9.	1	Bull plug: 2" LP XXH solid	23.75	23.75
10.	1	Needle valve: 1/2" NPT straight sour trim	128.25	128.25
11.	1	Pressure gauge: 0-5000# PSI sour trim	101.65	101.65
12.	4	R-24 stainless steel ring gasket	46.55	186.20
13.	1	R-35 stainless steel ring gasket	68.40	68.40
14.	1	R-54 stainless steel ring gasket	234.65	234.65
15.	1	BX-160 stainless steel ring gasket	368.60	368.60
16.	2	L7 studs c/w 2- 2H nuts: 7/8" x 6" long, set of 8	40.85	81.70
17.	1	L7 studs c/w 2- 2H nuts: 1 7/8" x 13 1/2" long, set of 12	644.10	644.10
18.	1	L7 studs c/w 2- 2H nuts: 1 5/8" x 12 1/2" long, set of 16	582.35	582.35
GRAND TOTAL				\$24,471.56



PAJAK ENGINEERING LTD.

M U D A D D I T I V E S I N V E N T O R Y

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

APB: A983002

RIG: 24E

LOCATION: 300-161-6050-12315-0

CONTRACTOR: Nabors Drlg.

Sun Jan 17 18:02:08 1999

MUD ADDITIVE	SACKS REC'D	SACKS USED	INVENT ADJUST	ON HAND	KG PER SACK	KG TOT WEIGHT
Alcomer110	180	118	0	62	25.0	1550
Alka a110	40	3	0	37	25.0	925
Alka n100	24	1	0	23	25.0	575
Barite	4074	3029	0	1045	40.0	41800
Bicarb	25	2	0	23	22.7	522
Bldg.rent	120	66	0	54	0.0	0
Caustic	70	43	0	27	22.7	613
Chemcide	84	56	0	28	22.7	636
Corinox	185	149	0	36	18.9	680
Defoam Sil	40	9	0	31	22.7	704
Desco	240	11	0	229	11.3	2588
Drispac re	160	82	0	78	22.7	1771
Envirofloc	80	7	0	73	36.3	2650
Gel	280	280	0	0	40.0	0
Gel Nat	800	481	0	319	40.0	12760
Kelzan	55	17	0	38	25.0	950
Lignite	164	78	0	86	22.7	1952
Lime	274	135	0	139	20.0	2780
Mud Flo II	17	0	0	17	0.9	15
Pallets	283	283	0	0	22.7	0
Percol728	156	60	0	96	25.0	2400
Percol787	16	0	0	16	25.0	400
Pot Sulfat	4200	2682	0	1518	25.0	37950
Prima Seal	100	0	0	100	18.1	1810
Sawdust	600	200	0	400	18.1	7240
Shrinkwrap	160	160	0	0	0.0	0
Sod Sulf	178	138	0	40	22.7	908
Soda Ash	120	15	0	105	25.0	2625
Starpac	250	137	0	113	22.7	2565
Sulph acid	110	81	0	29	25.0	725
Trucking	27631	27631	0	0	0.0	0
Zinc carb	40	0	0	40	25.0	1000
	40756	35954	0	4802		

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/17	
W.I.: 3001616050123150		CPA NO.:		DAY: 66	
OFFICE SUPERVISOR: Nickey Sutherland		LICENCE NO.: W10M1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drlg.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Overcast		TEMP: -9 °C		FINAL TD: 2660.00 m	
Midnight DEPTH: 2640.65 m		PROGRESS: 2640.65 m		FORMATION: Camsell	
8:00 a.m. DEPTH: 2640.65 m		8:00 a.m. OPERATION: Nipple down BOP stack		FORMATION: Camsell	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 38864 CUMULATIVE COST: \$ 4469878

1 155.6mm bit 1 122mm bit sub 80 89mm dp 1 x/o

LENGTH: 763.58 m WT. BELOW JARS: 44N JAR HRS: JAR SERIAL #:

WT. ON BIT: 2000 daN ROTARY RPM: 50 STRING WT.: 81000 daN

DRILL PIPE O.D.: 89 THREAD: 88.9 mm IF DRILL COLLARS O.D.: THREAD: NO. IN HOLE: 127 114 mm IF

TOTAL ROTATING HOURS: 699.75

BIT NO.

SIZE mm	HOUSE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS PER HOUR	BOSSES ON BIT		BIT	GETTING STUCK								REMARKS			
				1	2	3	IN	OUT		DR	RRD		BTMR	RPM	I	O	D	L	B	C	O	N		
48	215.9	RBI	BP7538	C45LR8	8.7	8.7	8.7	2571	2660	89	3.0	29.75		16-17	55	4	4	BT	A	E	I	NO	LOG	
58rr	215.9	Reed	TC1097	HP11	9.5	9.5	9.5	2660		0		0.00		-		2	2	WT	A					
1L	155.6	Reed	LJ4381	ENP43H	0.0	0.0	0.0	1899	2640	741	7.8	5.25	0.00	1-2	50	2	2	NO	A	E	I	NO	TD	

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES ☐ NO ☒

MUD

Viscosity Cp/ft	DENSITY lb/OUT	Wt lb	Wt cc/ft/min	PC mm	PV/VP	GELS O/S	TAP. SOL kg/m3	DIN. SOL kg/m3	SAND kg/m3	SILT/CLAY kg/m3	LVR kg/m3	CL %	CI %	CI %	ALKALINITY		°C
															API	MFO	lb/OUT
60	1180/1160	9.5	8.4	0.5	21/ 8.0	3.0/6.0	100.00		10.00	100		6000	1300	40	0.4	2.0	58/ 59
	/				/	/											/
CENTRIFUGE					DESHALER			DEWAXER			DEWAXER			TOTAL MUD DUMPED			
HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3					

P

U

M

P

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINEAR mm	STROKE mm	SPM	ml/MIN	MODEL	LINEAR mm	STROKE mm	SPM	ml/MIN		OP rpm	OC rpm	VELOCITY m/sec.	HHP
Emeco	140	254	80	0.94	Emeco	140	254			3400	39.3	25.7	73.4	55.12

SURVEYS		TIME BREAKDOWN		MUD ADDITIVES	
AZIMUTH		DRILLING	SURVEYING	Barite	
• @	m	RIG SERV	0.50	Safety NTG	0.50
• @	m	TRIPPING	14.25	Handl Tools	0.50
• @	m	CIRCULATE	2.75	Press Test	
• @	m	CEMENTING		Repairs	
• @	m	CLN to BTH		BOP Drill	
• @	m	SLIP & CUT		Logging	
• @	m	REAMING		Press Test	0.25
• @	m	RUN CSG		DRLG OUT	5.25
• @	m	TOTAL HOURS: 24.00		Sulph acid	
• @	m			Caustic	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.16 00:00 Hrs. Ran in bit # 1L to 1899 mKB. Brake circulation. Drilled 2 m cement on liner top. Washed cement stringers to 2245mKB. Drilled cement from 2599 mKB to top of latch down sub at 2640.65 mKB. Displaced hole to stripped potassium water, 85.6 m3. Tripped out bit # 1L. Laid down 89 mm drill pipe string. Made up Halliburton retrievable bridge plug and tripped into 1210 mKB. Set 244.5 mm model 3L RBP at 1209 mKB with 10,000 daN compression. Pull tested to 10000 daN, OK. Pressure tested annulus to 7000 kPa for 15 minutes, held ok. Laid down 127 mm drill pipe to 23:59 hours 1999.01.16.

SUPERVISOR: D. Solberg/N. Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

NAME: CDN. FOREST et al FLETT RAPIDS I-61
LOCATION: 300-I61-6050-12315-0 U.W.I.: 300I616050123150

DATE: 99/01/17

DAY: 66 DEPTH: 2640.65 m PROGRESS: 2640.65 m CPA NO.:

WEATHER: Overcast

TEMP: -9 °C

8:00 a.m. OPERATION: Nipple down BOP stack

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note #1 : Service rig will have to have a x/o from the pipe thread connection to overshoot box which is 4 1/2" IF, for RBP retrieval.

#2 : Should have all mud stripped by 08:00 hours 99/01/17.

#3 : BHA inspection : DC's- 1 cracked pin, 1 cracked elevator zip.
HWDP- 1 cracked box, 3 seals.

#4 : Held daily meeting with both crews. Topics: A) Housekeeping.
B) Laying down drillpipe.

REPORTED BY: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

CD 01/17

JAN-18-1999 09:15

403 264 1584

93%

P.10

PAJAK ENGINEERING LTD.

DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

APE #: A983002

PAGE: 1 / 7

DATE: 99/01/17

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: October, 1998																															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31																	
S	Badger Rentals		0	85	0	98/11/01																																	
S	Calmont Leasing		0	75	0	98/10/28														U	U	U	U																
S	Destiny Oilfield		0	34	0	98/12/21																																	
S	Destiny Oilfield	400 Bbl water tank	404	0	34	0	98/11/16																											Dewatering tank					
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/16																											Fresh water					
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20																											Fuel spill tank					
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09																																
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30														U	U																	
D	Fester	Hydraulic jars	10708	0	380	0	98/12/24																																
D	Fester	Hydraulic jars	10159	0	390	0																												98/12/24					
D	Fester	Roller reamer	10023	0	35	0	98/12/24																																
D	Fester	Roller reamer	10020	0	35	0	98/12/24																																
D	Fester	Shock sub	10572	0	255	0																												98/12/24					
D	Fester	Shock sub	10676	0	185	0	98/12/24																																
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																																
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																																
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																																
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																																
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																											98/11/19					
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																																
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																											98/11/19					
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																											98/11/19					
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																											Transcontinental					
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																											244.5 mm casing					
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27													U	U	U	U	U															
S	New Beginning	2 Ash Bins		0	60	0	98/10/27													U	U	U	U	U															
S	New Beginning	2 Incinerators		0	110	0	98/10/27													U	U	U	U	U															
S	New Beginning	2 Rig mats		0	60	0	98/10/27													U	U	U	U	U															
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																																
S	New Beginning	Fuel storage tank		0	34	0	98/11/13																																
S	New Beginning	Rig phones		0	50	0	98/11/14																																
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09																																
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11																																
S	Stresper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																											Dewatering tank					
D	Weatherford	88.9mm SpBtools		0	1654	0	99/01/13																																
D	Weatherford	Fishing tools		0	63	63	98/11/26																																
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																																
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																																
D	Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19																																

CD 04/17

JAN-18-1999

09:09

FROM

PAJAK ENGINEERING LTD.

TO

NEB

P.10

JAN-18-1999 09:15

403 264 1584

93%

P.11

PAJAK ENGINEERING LTD.

DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 2/7

DATE: 99/01/17

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
S	Badger Rentals	1008bl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																Dewatering tank
S	Destiny Oilfield	4008bl water tank	404	0	34	0	98/11/16																Fresh water
S	Destiny Oilfield	4008bl water tank		0	34	0	98/11/20																Fuel spill tank
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09								U	U	U	U	U	U	U		
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																
D	Faster	Hydraulic jars	10159	0	390	0																98/12/24	
D	Faster	Roller reamer	10023	0	35	0	98/12/24																
D	Faster	Roller reamer	10020	0	35	0	98/12/24																
D	Faster	Shock sub	10572	0	255	0																98/12/24	
D	Faster	Shock sub	10676	0	185	0	98/12/24																
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10															98/11/19	Transcontinental
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10															98/11/19	Transcontinental
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10															98/11/19	Transcontinental
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																244.5 mm casing
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																
S	New Beginning	Fuel storage tank		0	34	0	98/11/13																
S	New Beginning	Rig phones		0	50	0	98/11/14																
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09								U	U	U	U	U	U	U		
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11																
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																Dewatering tank
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																
D	Weatherford	Fishing tools		0	63	63	98/11/26																
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																
D	Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19																

CD 06/97

JAN-18-1999

09:10

FROM

PAJAK ENGINEERING LTD.

TO

NEB P.11

JAN-18-1999

09:16

403 264 1584

93%

P.12



PAJAK ENGINEERING LTD.

DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CON. FOREST et al FLETT RAPIDS 1-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 3 / 7

DATE: 99/01/17

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998																										DATE OFF LEASE	REMARKS
			MIN	DLV	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31												
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																											
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16					U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank		
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water	
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank	
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																											
D	Faster	Hydraulic jars	10159	0	390	0																											98/12/24	
D	Faster	Roller reamer	10023	0	35	0	98/12/24																											
D	Faster	Roller reamer	10020	0	35	0	98/12/24																											
D	Faster	Shock sub	10572	0	255	0																											98/12/24	
D	Faster	Shock sub	10676	0	185	0	98/12/24																											
D	Faster Oilfield	3PT roller reamer	10050	0	43	0	98/11/10																											
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10								U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
D	Faster Oilfield	NER	10053	0	45	0	98/11/10																											
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																											
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10	U	U	U	U	U	U																				98/11/19	
D	Faster Oilfield	Stabilizer	10804	0	75	0	98/11/10																											
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10	U	U	U	U	U	U																				98/11/19	
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10	U	U	U	U	U	U																				98/11/19	
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																											
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																										244.5 mm casing	
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																											
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S	Streepor Contracting	400 Bbl water tank	501	0	26	0	98/12/21																										Dewatering tank	
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																											
D	Weatherford	Fishing tools		0	63	63	98/11/26																											
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																											
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																											
D	Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19																											

CD #6/97

JAN-18-1999

09:11

FROM PAJAK ENGINEERING LTD.

TO

NEB P.12

JAN-18-1999 09:17

403 264 1584

93%

P.13

PAJAK ENGINEERING LTD.

DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CON. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6030-12315-0

AFE #: A983002

PAGE: 4 / 7

DATE: 99/01/17

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: December, 1998															DATE OFF LEASE	REMARKS
			MIN	DLV	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21															Dewatering tank	
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water	
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank	
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U			
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																
D	Faster	Hydraulic jars	10159	0	390	0								U	U	U	U	U	U	U	98/12/24		
D	Faster	Roller reamer	10023	0	35	0	98/12/24																
D	Faster	Roller reamer	10020	0	35	0	98/12/24																
D	Faster	Shock sub	10572	0	255	0		U	U	U	U	U				U	U	U	U	U	98/12/24		
D	Faster	Shock sub	10676	0	185	0	98/12/24																
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10	U	U	U	U	U	U										
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10	U	U	U	U	U	U										
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10	U	U	U	U	U	U										
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10	U															
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10														98/11/19	Transcontinental	
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10	U	U	U	U	U	U										
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10														98/11/19	Transcontinental	
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10														98/11/19	Transcontinental	
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16											U	U	U	U	244.5 mm casing	
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16											U	U	U	U		
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21															Dewatering tank	
D	Weatherford	88.9mm Dr&tools		0	1654	0	99/01/13																
D	Weatherford	Fishing tools		0	63	63	98/11/26	U	S	S	S	S	S	S	S	S	S	S	S	S			
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																
D	Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19	U	U	U	U	U	U										

CD 04/99

JAN-18-1999 09:11

FROM PAJAK ENGINEERING LTD.

TO

NEB

P.13

JAN-18-1999

09:17

403 264 1584

93%

P.14

PAJAK ENGINEERING LTD.

DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CON. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 5/ 7

DATE: 99/01/17

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: December, 1998																												DATE OFF LEASE	REMARKS
			MIN	DLY	STGY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31														
S	Badger Rentals			0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U							
S	Caleont Leasing			0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Destiny Oilfield			0	34	0	98/12/21							U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank					
S	Destiny Oilfield		404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water				
S	Destiny Oilfield			0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank				
S	Dunvegan Rentals		961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Dunvegan rentals		984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
0	Faster		10708	0	380	0	98/12/24																													
0	Faster		10159	0	390	0		U	U	U	U	U	U	U	U	U	U														98/12/24					
0	Faster		10023	0	35	0	98/12/24																													
0	Faster		10020	0	35	0	98/12/24																													
0	Faster		10572	0	255	0		U	U	U	U																					98/12/24				
0	Faster		10676	0	185	0	98/12/24																													
0	Faster Oilfield		10050	0	45	0	98/11/10																													
0	Faster Oilfield		10158	0	390	0	98/11/10																													
0	Faster Oilfield		10053	0	45	0	98/11/10						U	U																						
0	Faster Oilfield		10573	0	255	0	98/11/10																													
0	Faster Oilfield		2565	0	150	0	98/11/10																									98/11/19				
0	Faster Oilfield		10304	0	75	0	98/11/10																													
0	Faster Oilfield		45	0	26	0	98/11/10																									98/11/19				
0	Faster Oilfield		4157	0	28	0	98/11/10																									98/11/19				
S	Lory Oilfield Rentals		L-1808	950	190	150	98/12/16	U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S							
S	Lory Oilfield Rentals		L-1807	950	190	150	98/12/16	U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			244.5 mm casing			
S	New Beginning			0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning			0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning			0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning			0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning			0	400	0	98/11/09																													
S	New Beginning			0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning			0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	New Beginning Serv.			0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Pason Systems Corp.			0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U						
S	Streeper Contracting		501	0	26	0	98/12/21																									Dewatering tank				
0	Weatherford			0	1654	0	99/01/13																													
0	Weatherford			0	63	63	98/11/26	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S							
0	Whipstock		45-022	0	50	0	98/12/24																													
0	Whipstock		15-068	0	260	0	98/12/24																													
0	Whipstock Systems		17-004	0	450	0	98/11/19																													

CD 00/17

JAN-18-1999

09:12

FROM

PAJAK ENGINEERING LTD.

TO

NEB

P.14

JAN-18-1999

09:18

403 264 1584

93%

P.15

PAJAK ENGINEERING LTD.

DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CON. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 6 / 7

DATE: 99/01/17

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: January, 1999														DATE OFF LEASE	REMARKS
			MIN	DLV	STGY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
S Badger Rentals	1008bl water tank		0	85		0 98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S Calmont Leasing	Eng truck rental		0	75		0 98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S Destiny Oilfield	400 Bbl water tank		0	34		0 98/12/21	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S Destiny Oilfield	4008bl water tank	404	0	34		0 98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank
S Destiny Oilfield	4008bl water tank		0	34		0 98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water
S Dunvegan Rentals	Mud log shack	961	0	165		0 98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank
S Dunvegan rentals	Wellsite shack	984	0	185		0 98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D Faster	Hydraulic jars	10708	0	380		0 98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D Faster	Hydraulic jars	10159	0	390		0															98/12/24	
D Faster	Roller reamer	10023	0	35		0 98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D Faster	Roller reamer	10020	0	35		0 98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D Faster	Shock sub	10572	0	255		0															98/12/24	
D Faster	Shock sub	10676	0	185		0 98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D Faster Oilfield	3PT roller reamer	10050	0	45		0 98/11/10																
D Faster Oilfield	Hydraulic jars	10158	0	390		0 98/11/10																
D Faster Oilfield	NBR	10053	0	45		0 98/11/10																
D Faster Oilfield	Shock Tool	10573	0	255		0 98/11/10																
D Faster Oilfield	Stabilizer	2565	0	150		0 98/11/10															98/11/19	Transcontinental
D Faster Oilfield	Stabilizer	10304	0	75		0 98/11/10																
D Faster Oilfield	X/O Sub	45	0	26		0 98/11/10															98/11/19	Transcontinental
D Faster Oilfield	X/O Sub	4157	0	28		0 98/11/10															98/11/19	Transcontinental
S Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																244.5 mm casing
S Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																
S New Beginning	1 Garbage Bin		0	70		0 98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S New Beginning	2 Ash Bins		0	60		0 98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S New Beginning	2 Incinerators		0	110		0 98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S New Beginning	2 Rig mats		0	60		0 98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S New Beginning	20 3X12 Planks		0	400		0 98/11/09																
S New Beginning	Fuel storage tank		0	34		0 98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S New Beginning	Rig phones		0	50		0 98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S New Beginning Serv.	2" Flight pump		0	17		0 98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S Pason Systems Corp.	Pvt.		0	150		0 98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
S Streeper Contracting	400 Bbl water tank	501	0	26		0 98/12/21	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank
D Weatherford	88.9mm Op&tools		0	1654		0 99/01/13																
O Weatherford	Fishing tools		0	63	63	98/11/26	S	S	S													
D Whipstock	Monel / short	45-022	0	50		0 98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D Whipstock	Monel/single shot	15-068	0	260		0 98/12/24	U	U	U	U	U	U	U	U	U	U	U	U	U	U		
D Whipstock Systems	Monel/single shot	17-004	0	450		0 98/11/19																

CD 04/17

JAN-18-1999

09:13

FROM

PAJAK ENGINEERING LTD.

TO

NEB

P.15

JAN-18-1999 09:19

403 264 1584

93%

P.16

PAJAK ENGINEERING LTD.

DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CON. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 7 / 7

DATE: 99/01/17

	SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: January, 1999												DATE OFF LEASE	REMARKS																
				MIN	DLV	STBY		16	17	18	19	20	21	22	23	24	25	26	27			28	29	30	31												
S	Badger Rentals	1008bl water tank		0	85	0	98/11/01	U																													
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U																													
S	Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21	U																													
S	Destiny Oilfield	4008bl water tank	404	0	34	0	98/11/16	U																												Dewatering tank	
S	Destiny Oilfield	4008bl water tank		0	34	0	98/11/20	U																												Fresh water	
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U																												Fuel spill tank	
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U																													
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																														
D	Faster	Hydraulic jars	10159	0	390	0																														98/12/24	
D	Faster	Roller reamer	10023	0	35	0	98/12/24																														
D	Faster	Roller reamer	10020	0	35	0	98/12/24																														
D	Faster	Shock sub	10572	0	255	0																														98/12/24	
D	Faster	Shock sub	10676	0	185	0	98/12/24																														
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																														
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																														
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																														
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																														
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																													98/11/19 Transcontinental	
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																														
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																													98/11/19 Transcontinental	
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																													98/11/19 Transcontinental	
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																													244.5 mm casing	
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																														
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27	U																													
S	New Beginning	2 Ash Bins		0	60	0	98/10/27	U																													
S	New Beginning	2 Incinerators		0	110	0	98/10/27	U																													
S	New Beginning	2 Rig mats		0	60	0	98/10/27	U																													
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																														
S	New Beginning	Fuel storage tank		0	34	0	98/11/13	U																													
S	New Beginning	Rig phones		0	50	0	98/11/14	U																													
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U																													
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U																													
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21	U																												Dewatering tank	
D	Weatherford	88.9mm Dp&tools		0	1654	0	99/01/13																														
D	Weatherford	Fishing tools		0	63	63	98/11/26																														
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																														
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																														
D	Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19																														

CD 04/97

JAN-18-1999 09:14 FROM PAJAK ENGINEERING LTD. TO NEB P.16

WELLNAME: CON. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 8/ 7

DATE: 99/01/17

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: February, 2000																DATE OFF LEASE	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

Total cost, surface:	91569
down-hole:	39499
other:	2394
all:	133462

JAN-18-1999 09:14 FROM PAJAK ENGINEERING LTD. TO NEB P.17

JAN-18-1999 09:19

403 264 1584

93%

P. 17

CD 06/97

DRILLING RENTAL EQUIPMENT SUMMARY - Surface/Downhole sequence

Date: 99/01/17, 06:25

CDN. ST et al FLETT RAPIDS I-61
300-161-6050-12315-0

SURF				DAILY	STANDBY	MIN	DATE		DATE	DAYS	T
PHOLE	ITEM	SUPPLIER	SERIAL #	COST	COST	COST	RECEIVED-TICKET		RETURNED-TICKET	USED	C
S	1 Garbage Bin	New Beginning		70	0	0	98/10/27 4610			82	
S	100Bbl water tank	Badger Rentals		85	0	0	98/11/01 5992			77	
S	2 Ash Bins	New Beginning		60	0	0	98/10/27 4610			82	
S	2 Incinerators	New Beginning		110	0	0	98/10/27 4610			82	
S	2 Rig mats	New Beginning		60	0	0	98/10/27 4610			82	
S	2" Flight pump	New Beginning Serv.		17	0	0	98/11/09 63321			69	
S	20 3X12 Planks	New Beginning		400	0	0	98/11/09 63321			1	
S	400 Bbl water tank	Destiny Oilfield		34	0	0	98/12/21 25982			27	
S	400 Bbl water tank	Streesper Contracting	501	26	0	0	98/12/21 25982			27	
S	400Bbl water tank	Destiny Oilfield	404	34	0	0	98/11/16 0301			58	
S	400Bbl water tank	Destiny Oilfield		34	0	0	98/11/20 0302			62	
S	9 5/8 350 t elevators	Lory Oilfield Rentals	L-1808	190	150	950	98/12/16 15272			5	
S	9 5/8 350 t spider	Lory Oilfield Rentals	L-1807	190	150	950	98/12/16 15272			5	
S	Eng truck rental	Calmont Leasing		75	0	0	98/10/28			81	
S	Fuel storage tank	New Beginning		34	0	0	98/11/13 3601			64	
S	Mud log shack	Dunvegan Rentals	961	165	0	0	98/11/09 63321			69	
S	Pvt.	Pason Systems Corp.		150	0	0	98/11/11 5824			66	
S	Rig phones	New Beginning		50	0	0	98/11/14			64	
S	Wellsite shack	Dunvegan rentals	984	185	0	0	98/10/30 63317			79	
O	Fishing tools	Weatherford		63	63	0	98/11/26 15228			5	
D	3PT roller reamer	Faster Oilfield	10050	45	0	0	98/11/10 15210			9	
D	88.9mm Dp&tools	Weatherford		1654	0	0	99/01/13 15374			1	
D	Hydraulic jars	Faster	10708	380	0	0	98/12/24 15272			16	
D	Hydraulic jars	Faster	10159	390	0	0		98/12/24 15292		17	
D	Hydraulic jars	Faster Oilfield	10158	390	0	0	98/11/10 15210			13	
D	Monel / short	Whipstock	45-022	50	0	0	98/12/24 15272			13	
D	Monel/single shot	Whipstock	15-068	260	0	0	98/12/24 15272			13	
D	Monel/single shot	Whipstock Systems	17-004	450	0	0	98/11/19 15212			10	
D	NBR	Faster Oilfield	10053	45	0	0	98/11/10 15210			11	
D	Roller reamer	Faster	10020	35	0	0	98/12/24 15272			13	
D	Roller reamer	Faster	10023	35	0	0	98/12/24 15272			13	
D	Shock sub	Faster	10676	185	0	0	98/12/24 15272			13	
D	Shock sub	Faster	10572	255	0	0		98/12/24 15292		15	
D	Shock Tool	Faster Oilfield	10573	255	0	0	98/11/10 15210			4	
D	Stabilizer	Faster Oilfield	10304	75	0	0	98/11/10 15210			9	
D	stabilizer	Faster Oilfield	2565	150	0	0	98/11/10 15187		98/11/19 15210	5	
D	X/O Sub	Faster Oilfield	4157	28	0	0	98/11/10 15187		98/11/19 15210	5	
D	X/O Sub	Faster Oilfield	45	26	0	0	98/11/10 15187		98/11/19 15210	5	

Total cost, surface: 5
down-hole: 3
other:
all: 13

NEB

P.02

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

DATE: 99/01/16

LOCATION: 300-161-6050-12315-0

U.W.I.: 3001616050123150

DAY: 64

DEPTH: 1899.00 m

PROGRESS: 1899.00 m

CPA NO.:

WEATHER: Overcast

TEMP: -9 °C

8:00 a.m. OPERATION: Drill out cement to top of latch down sub at 2640.65mKB.

DRILLING & GEOLOGICAL REMARKS (Contd)

Note# 1: Lost 3.5 hours waiting on rental drill pipe slips.

Note# 2: Drilled 2 m cement inside liner top. Cleaned cement stringers to 2599 mKB. Tagged hard cement @ 2599 mKB. Drilled out cement from 2599 mKB to latch down sub at 2640.65 mKB.

REPORTED BY: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

CQ 04/97

PAJAK ENGINEERING LTD.

DRILLING COST REPORT

CON. FOREST et al FLETT RAPIDS 1-61							A963002	
300-161-0050-12315-0							2660 m	
Description	99/01/11	99/01/12	99/01/13	99/01/14	99/01/15	TOTAL	PREV TOTAL	TOTAL COST
INTERMEDIATE CASING m of 264 mm							236404	236404
PRODUCTION CASING 754 m of 178 mm				94632		94632		94632
SURFACE CASING m of 339 mm							168758	168758
DRILLING BITS					2500	2500	137188	139688
DAYWORK /DAY	14176	14176	14176	14176	14176	70880	924434	995314
DIRECTIONAL DRILLING							198413	198413
FUEL			5995			5995	183751	189746
WATER	1148	680	1140	895	1150	4893	83821	88714
ENGINEERING/DESIGN							10800	10800
LEASE AND ACCESS								
- LICENCES & PERMITS								
- SURFACE LEASE & SURVEY							13000	13000
- ROAD & LEASE PREPARATION							153550	153550
- RESTORATION & CLEAN-UP								
RIG AND CAMP MOVE							232399	232399
DRILLING FLUIDS	165	2362	165	663	2407	5762	350023	355785
ADHES	1440	1440	1440	1440	1440	7200	79520	86720
COMMUNICATIONS	150	150	150	150	150	750	11100	11850
CAMP AND CATERING	3300	3300	3600	3300	3300	16800	246900	263700
CEMENT SERVICES								
- SURFACE							24612	24612
- INTERMEDIATE							70298	70298
- PRODUCTION/INFR				61116		41114		61114
CORING AND ANALYSIS								
EQUIPMENT RENTALS	1189	1569	1569	1189	2843	8359	123679	132038
DRILL STEM TESTS								
LOGGING		123849				123849	125691	249340
SAFETY SERVICES	1715	1715	1715	1715	400	7260	48087	55347
SPECIAL SERVICES				5757		5757	10244	16001
TRUCKING			3810			3810	96607	100417
FIELD SUPERVISION								
- FOREMAN	800	800	1600	1600	800	5600	77600	83200
- GEOLOGIST	1695	1695	895	895		5180	105895	111075
- SECOND MEN								
TRAVEL/ACCOMMODATION								
OVERHEAD								
Welding/tongs/vac truck			2711	1445		4156	50672	54828
craw/all/flights/vehicle	430	430	9830	430	430	7350	81720	89270
Wedges	2310	2310	2310	2310	2310	11550	152251	163801
DAILY COST	28518	154396	47106	171671	31906	433597	3997617	4431014
ACCUMULATED COST	4025935	4180331	4227437	4399108	4431014			

99/01/14 special services: Hallmark Technical Services 85756.60.

SUPERVISOR: S. Solberg/N. Rogerson

PHONE #: (600) 700-2629

CCARD #:

TOTAL P.14

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDH. FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/16	
: 3001616050123150		CPA NO.:		DAY: 64	
CE SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drig.		KB: 262.9 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Overcast		TEMP: -9 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 1899.00 m		PROGRESS: 1899.00 m		PSTD: m FORMATION:	
8:00 a.m. DEPTH: 2623.00 m		8:00 a.m. OPERATION: Drill out cement to top of latch down sub at 2640.65mKB.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 31906 CUMULATIVE COST: \$ 4431014

1 155.6mm bit 1 122mm bitsub 80 89mm dp 1 x/o

TOTAL ROTATING HOURS: 699.75

LENGTH: 763.58 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: 68000 daN

DRILL PIPE O.D.: 89 THREAD: 88.9 mm IF DRILL COLLARS O.D.: THREAD: NO. IN HOLE:

127 114 mm IF

BIT S

BIT NO.	SIZE mm	NAME	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTR PER HOUR	HOURS ON BIT	BIT		CUTTING STRUCT						REMARKS			
					1	2	3	IN	OUT			WT48	RPM	1	2	3	4	5	6		7	8	9
4B	215.9	RBI	BP753B	C4SLRG	8.7	8.7	8.7	2571	2660	89	3.0	29.75		16-17	55	4	4	BT	A	E	I	NO	LOG
5Brr	215.9	Reed	TC1097	HP11	9.5	9.5	9.5	2660		0		0.00		-		2	2	WT	A				
1L	155.6	Reed	LJ4381	EHP43H	0.0	0.0	0.0	1899		-189				-									

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES [] NO [X]

MUD

Viscosity Sec/L	DENSITY HR/OUT	pH	WL cc/30min	FC mm	FT/TF	GELS 0/18	Tot. Sol kg/m3	Drift. Sol kg/m3	SAND kg/m3	DETRITUS kg/m3	LCM kg/m3	DL %	Cl ppm	Ca ppm	ALKALINITY MFI MPO	°C IN/OUT	
60	1180/1160	9.5	8.4	0.5	21/ 8.0	3.0/6.0	100.00		10.00	100		6000.	1300	40	0.4 2.0	58/ 59	
	/				/	/										/	
CENTRIFUGE				DESLTER				DESANDER				DEWASER				TOTAL MUD DUMPED	
HR IN		kg/m3		OUT		kg/m3		HR OUT		kg/m3		HR OUT		kg/m3		m3	

P
U
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PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m ³ /MIN	MODEL	LINER mm	STROKE mm	SPM	m ³ /MIN	PSI	DP m/REV	DC m/REV	VELOCITY m/sec	WHP
Ensco	140	254	100	1.17	Ensco	140	254			4000	48.9	32.0	91.3	106.30

SURVEYS		TIME BREAKDOWN		MUD ADDITIVES	
AZIMUTH		DRILLING	SURVEYING	Barite	25
• @ m		RIG SERV 0.50	SAFETY MTG 0.50	Sod Sulf	
• @ m		TRIPPING 11.50	HANDL TOOLS	Defoam Sil	2
• @ m		CIRCULATE 1.75	PRESS TEST	Bldg.rent	1
• @ m		CEMENTING	REPAIRS	Chemcide	
• @ m		CLN TO BTN	BOP DRILL	Alka 6110	2
• @ m		SLIP & CUT	LOGGING	Percol 728	1
• @ m		REAMING	W.O.C.	Envirofloc	3
• @ m		RUN CSG	DRLG OUT 6.25	Lignite	
• @ m			W.O.SLIPS 3.50	Corinox	
• @ m			TOTAL HOURS: 26.00	Sulph acid	2
• @ m				Caustic	

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.15200:00 Hrs. Tripped in 215.9mm bit to 1733mKB.

Broke circulation. Drilled soft cement from 1733 mKB to

1767 mKB. Drilled harder cement from 1767 mKB to 1772 mKB.

Drilled hard cement from 1772 mKB to 1899 mKB, top of liner

lap. Circulated bottoms up and tripped out with bit #5BRR.

Rigged up to pick up 88.9 mm drill pipe and found rental

slips were dressed for 101.6 mm drill pipe. Contacted Weatherford Ft.St.John and they flew a set off slips to Ft.Liard airport. Laid down 168mm drill collars and HW/DP. Rigged up and picked up 88.9 mm drill pipe to 23:59 hours 1999.01.15.

Held daily meetings with crews.Topic: Picking up drillpipe.

SUPERVISOR: D.Solberg/H.Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

NAME: CDN. FOREST et al FLETT RAPIDS I-61

DATE: 99/01/16

.TION: 300-I61-6050-12315-0

U.W.I.: 300I616050123150

DAY: 64

DEPTH: 1899.00 m

PROGRESS: 1899.00 m

CPA NO.:

WEATHER: Overcast

TEMP: -9 °C

8:00 a.m. OPERATION: Drill out cement to top of latch down sub at 2640.65mKB.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

Note# 1: Lost 3.5 hours waiting on rental drill pipe slips.

Note# 2: Drilled 2 m cement inside liner top. Cleaned cement stringers to 2599 mKB. Tagged hard cement @ 2599 mKB. Drilled out cement from 2599 mKB to latch down sub at 2640.65 mKB.

REPORTED BY: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

CD 00/07

PAJAK ENGINEERING LTD.

DRILLING COST REPORT

WELL NAME						CDN. FOREST et al FLETT RAPIDS I-61		APE #		A983002					
LOG #						300-161-6050-12315-0		PRESENT DEPTH		2660 m					
Description						Date	Date	Date	Date	Date	5 DAY	PREV.	TOTAL		
						99/01/11	99/01/12	99/01/13	99/01/14	99/01/15	TOTAL	TOTAL	COST		
INTERMEDIATE CASING						m of 244 mm						236404	236404		
PRODUCTION CASING						754 m of 178 mm			94632		94632		94632		
SURFACE CASING						m of 339 mm						168758	168758		
DRILLING BITS										2500	2500	137188	139688		
DAYWORK						\$ /DAY		14176	14176	14176	14176	14176	70880	924434	995314
DIRECTIONAL DRILLING												198413	198413		
FUEL								5995			5995	183751	189746		
WATER						1148	600	1140	855	1150	4893	83821	88714		
ENGINEERING/DESIGN												10800	10800		
LEASE AND ACCESS															
- LICENCES & PERMITS															
- SURFACE LEASE & SURVEY												13000	13000		
- ROAD & LEASE PREPARATION												153550	153550		
- RESTORATION & CLEAN-UP															
RIG AND CAMP MOVE												232399	232399		
DRILLING FLUIDS						165	2362	165	663	2407	5762	350023	355785		
BOILER						1440	1440	1440	1440	1440	7200	79520	86720		
COMMUNICATIONS						150	150	150	150	150	750	11100	11850		
CAMP AND CATERING						3300	3300	3600	3300	3300	16800	246900	263700		
CEMENT SERVICES															
- SURFACE												24612	24612		
- INTERMEDIATE												70298	70298		
- PRODUCTION/LINER									41114		41114		41114		
CORING AND ANALYSIS															
EQUIPMENT RENTALS						1189	1569	1569	1189	2843	8359	123679	132038		
DRILL STEM TESTS															
LOGGING							123849				123849	125691	249540		
SAFETY SERVICES						1715	1715	1715	1715	400	7260	48087	55347		
SPECIAL SERVICES									5757		5757	10244	16001		
TRUCKING								3810			3810	96607	100417		
FIELD SUPERVISION															
- FOREMAN						800	800	1600	1600	800	5600	77600	83200		
- GEOLOGIST						1695	1695	895	895		5180	105895	111075		
- SECOND MEN															
TRAVEL/ACCOMMODATION															
OVERHEAD															
Welding/tongs/vac truck								2711	1445		4156	50672	54828		
Crew/all/flights/vehicle						430	430	5830	430	430	7550	81720	89270		
Wadeco						2310	2310	2310	2310	2310	11550	152231	163801		
DAILY COST						28518	154396	47106	171671	31906	433597	3997417	4431014		
ACCUMULATED COST						4025935	4180331	4227437	4399108	4431014					

Account	Comment
	99/01/14 Special services: Hallmark Technical Services \$5756.60.

SUPERVISOR: D. Solberg/N. Rogerson

PHONE #: (600) 700-2629

CCARD #:

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS I-61 : 3001616050123150		LOCATION: 300-161-6050-12315-0 CPA NO.:		DATE: 99/01/15 DAY: 63	
JE SUPERVISOR: Nickey Sutherland		LICENCE NO.: W10#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drilg.		KB: 262.5 m KB-CL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Clear		TEMP: -5 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 2659.00 m		PROGRESS: 2659.00 m		PSTD: m FORMATION:	
8:00 a.m. DEPTH: 2659.00 m		8:00 a.m. OPERATION: Circulating hole clean after cleaning to top of liner.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 171671 CUMULATIVE COST: \$ 4399108

1 215.9mm bit 1 172mm bit sub 6 168mm DC 1 X/O sub 9 HW/DP

TOTAL
ROTATING
HOURS: 699.75

LENGTH: 140.38 m WT. BELOW JARS: daN JAR HRS: JAR SERIAL #:

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: 68000 daN

DRILL PIPE O.D.: 127 THREAD: 114 IF DRILL COLLARS O.D.: 168 THREAD: 127mmH-90 NO. IN HOLE: 6

BIT NO.	SIZE	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRE	MTRE PER HOUR	HOURS ON BIT		BIT	CUTTING STRUCT										REMARKS
					1	2	3	IN	OUT			DRL	RND		1	2	3	4	5	6	7	8	9	10	
38	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395	2571	176	3.0	57.75	2.50	16-17	60	8	8	BT	A	E	I	LT	PR		
48	215.9	RBI	BP753B	C4SLRG	8.7	8.7	8.7	2571	2660	89	3.0	29.75		16-17	55	4	4	BT	A	E	I	NO	LOG		
58RR	215.9	Reed	TC1097	HP11	9.5	9.5	9.5	2660				0.00		-		2	2	WT	A						

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES [] NO [X]

MUD	Viscosity Sec/L	DENSITY kg/OUT	pH	WL cc/stroke	FC mm	PV/YP	GELS D/LB	Tm. Sol kg/ml	Dm. Sol kg/ml	SAND kg/ml	BENTONITE kg/ml	LCM kg/ml	OR %	Cl ppm	Cr ppm	ALKALINITY		°C				
																API	MFO	IN/OUT				
	60	1180/1160	9.5	8.4	0.5	21/ 8.0	3.0/6.0	100.00		10.00	100		6000.	1300	40	0.4	2.0	58/ 59				
	/					/	/											/				
	CENTRIFUGE					DESLTER					DESLTER					DESLTER					TOTAL MUD SHIPPED	
	HR IN	kg/ml	OUT	kg/ml		HR OUT	kg/ml			HR OUT	kg/ml			HR OUT	kg/ml			ml				

PUMP

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINEAR mm	STROKE mm	GPM	m ³ /MIN	MODEL	LINEAR mm	STROKE mm	GPM	m ³ /MIN		MPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.
Emeco	140	254	80	0.94	Emeco	140	254			750	39.3	65.1	73.4	55.12

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES		
AZIMUTH			DRILLING			Barite		
• @	m		RIG SERV	0.25	SURVEYING	Sod Sulf		
• @	m		TRIPPING	6.75	SAFETY MTE	0.75	Defoam Sil	2
• @	m		CIRCULATE	9.25	HNDL TOOLS		Bldg.rent	1
• @	m		CENENTING	2.50	PRESS TEST		Chemcide	
• @	m		CLN TO BTM		REPAIRS		Drispec re	
• @	m		SLIP & CUT		BOP DRILL		Starpac	
• @	m		REANING		LOGGING		Gel Mat	
• @	m		RUN CSG	2.50	W.O.C.	2.00	Lignite	4
• @	m						Corinox	
• @	m						Kelzan	
• @	m						Caustic	
			TOTAL HOURS: 24.00					

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
1999.01.14 @ 00:00 Hours.

Ran 10 joints 177.8mm, 43.16 kg/m³, L-80 Buttress casing and
and 50 joints 177.8mm, 43.16 kg/m³, L-80 NSCC casing. 60
joints total. Total length of casing and accessories 761.22m
Landed float shoe at 2659mKB, float collar at 2647.71mKB,
latch down sub at 2640.65mKB, top of marker joint at 2547mKB

and top of liner hanger at 1899mKB. Circulated and
conditioned hole prior to cementing. Hung liner off with
Import tool representative. Held prejob safety meeting with
Sanjel, Import and Nabors personnel. Pressure tested surface
lines to 21,000 kPa. Pumped 2m³ water, 3m³ Visweep with
density of 1200 kg/m³, 31 tonnes Thermal 40 + .7% CFR, + .7%

SUPERVISOR: D. Solberg/M. Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

CD 04/97

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

NAME: CDN FOREST et al FLETT RAPIDS I-61

DATE: 99/01/15

ATION: 300-I61-6050-12315-0

U.W.I.: 300I616050123150

DAY: 63

DEPTH: 2659.00 m

PROGRESS: 2659.00 m

CPA NO.:

WEATHER: Clear

TEMP: -5 °C

8:00 a.m. OPERATION: Circulating hole clean after cleaning to top of liner.

DRILLING & GEOLOGICAL REMARKS (Cont'd)

CFL-2, 10 L/m³ FA-1, .1% LTR, density of 1885 kg/m³. Displaced hole with 1m³ water, 12.8m³ mud, 1.5m³ water followed by 16.6m³ mud. Bumped plug at 6500 kPa over circulating pressure. Float held. Released from hanger. Hoisted 7 stands of drill pipe, 5 wet and 2 dry. Reverse circulated. Received 4m³ contaminated cement at surface. Circulated and conditioned hole. Tripped out of hole with Import Tool liner setting tool. Made up bottom hole assembly and tripped bit #5BRR to 1600mKB. Broke circulation and circulated. Waited on cement to 23:59 hours 1999.01.14.

Note #1: Held daily meeting with both crews.

Topics: (a) Cementing. (b) Fall arrest.

#2: Cemented off both attempted water wells.

#3: See attached Import diagram.

REPORTED BY: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

CD 4/97

PAJAK ENGINEERING LTD.

CEMENTING REPORT

WELL NAME: CON FOREST et al FLETT RAPIDS I-61 LOCATION: 300-161-6050-12315-0 SUPERVISOR: D. Solberg/H. Rogerson PHONE #: (600) 700-2629 CALLING CARD #:	DATE: 99/01/16 AFE #: A983002 CEMENT JOB ID (**): P STRING IDENTIFIER (*): L	RPT #: 4 DFS: (*) STRING IDENTIFIERS C = Conductor S = Surface I = Intermediate P = Production L = Liner (**) JOB IDENTIFIERS P = Primary S = Squeeze
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Summary					ANNULAR VOLUME (m3)	
		CEMENT INTERVAL			CALIPER GAUGE SLURRY (actual)	
1st STAGE	2067.6	m KB	1335.4	m KB		
2nd STAGE	1335.4	m KB	500.0	m KB		
3rd STAGE		m KB		m KB		

Job Details	Comments
HOLE SIZE: 215.90 mm CASING O.D.: 177.80 mm SHOE DEPTH: 2659.00 m KB MAX. RECORDED BHT: 135 deg C JOB TYPE (**): 1 PROPOSED CEMENT TOP: 1900.00 m KB MAXIMUM DEVIATION: 18.10 deg @ 2051.00 m KB (***) JOB TYPES 1 = Conventional 2 = Foam	

Mud Data (prior to cementing)	Plug Type	Pipe Movement		
TYPE: Gel polymer DENSITY: 1160.00 kg/m3 VISCOSITY: 60.00 sec/l YIELD POINT: 8.00 Pa WATER LOSS: 8.40 ml/30 min P. V. 21.00 mPa - sec GELS 3.00 / 6.00 Pa	TOP: BOTTOM: OTHER: Cement Head TYPE:	WHILE: TYPE STROKE (m) RATE (stts/min)	CONDITIONING 	CEMENTING
Mix Water		Stage Tools		
400 BBL Fresh water tank		TYPE DEPTH (m KB)		

Services & Equipment	
CEMENT COMPANY: Sanjel REPRESENTATIVE: Richard Harsen	EQUIPMENT: twin + single

STAGE ONE

A. Cement Blend Description				PREFLUSH	
	CEMENT TYPE	ADDITIVES		TYPE	VOL (m3)
SCAVENGER				water	2.00
FILL				Viscweep/1200 kg/m3	3.00
TAIL	Thermal 40	.7% CFR + .7% CFL-2 + .1% LTR + 10 L/m3 FA-1			
OTHER					

B. Cement Data										MIX WATER	
	CEMENTED INTERVAL (m) to (m)	ANNULAR VOLUME (m3)	EXCESS USED (%)	SLURRY VOLUME (m3)	BULK WEIGHT (tonnes)	YIELD (m3/t)	SLURRY DENSITY (kg/m3)	THICK TIME (mins)		RATIO (m3/t)	TEMP (deg C)
SCAVENGER	-										
FILL	-										
TAIL	2660.0 - 1900.0	17.40	30	22.62	31.00	0.730	1885.00	317		0.440	135.00
OTHER	-										

CD 06/97

Page 1 of 2



PAJAK ENGINEERING LTD.

CEMENTING REPORT

J. NAME: CDN FOREST et al FLETT RAPIDS I-61		DATE: 99/01/14	RPT #: 4	(*) STRING IDENTIFIERS C = Conductor S = Surface I = Intermediate P = Production L = Liner
LOCATION: 300-161-6050-12315-0		AFE #: A983002	DFS:	
SUPERVISOR: D. Solberg/N. Rogerson		CEMENT JOB ID (**): P		(**) JOB IDENTIFIERS P = Primary S = Squeeze
PHONE #: (600) 700-2629		CALLING CARD #:		
		STRING IDENTIFIER (*): L		

C. Record of Operations							
OPERATION DESCRIPTION	START TIME (day / hr:min)	FINISH TIME (day / hr:min)	ELAPSED TIME	VOLUME (m3)	RATE (m3/min)	PRESSURE (kPa)	
						MAX.	MIN.
MUD CONDITIONING	/ :	/ :					
POOH W/ DRILL PIPE	/ :	/ :					
RIH W/ CASING	13 / 06 : 15	14 / 02 : 00	19.75				
CIRCULATION	14 / 02 : 00	14 / 07 : 00	5.00	95.0	0.9	2200	2150
CEMENTING - PREFLUSH	14 / 08 : 34	14 / 08 : 38	0.07	5.0	1.0	5000	
- SCAVENGER	/ :	/ :					
- FILL	/ :	/ :					
- TAIL	14 / 08 : 42	14 / 09 : 15	0.55	23.2	0.9	4000	
- OTHER	/ :	/ :					
RLSE TOP PLUG & PO LINES	14 / 09 : 16	/ :	14.73				
DISPLACEMENT	14 / 09 : 18	14 / 09 : 55	0.62	32.0	1.1	13000	2000
BUMP PLUG & BLEED OFF	14 / 09 : 56	/ :	14.07			19500	
CEMENT RETURNS	TYPE: Contaminated		VOLUME: 4.00 m3				
FLOAT HELD	YES ☒ NO ☐						

STAGE TWO

A. Cement Blend Description			PREFLUSH	
	CEMENT TYPE	ADDITIVES	TYPE	VOL (m3)
SCAVENGER				
FILL				
TAIL				
OTHER				

B. Cement Data									
	CEMENTED INTERVAL (m) to (m)	ANNULAR VOLUME (m3)	EXCESS USED (%)	SLURRY VOLUME (m3)	BULK WEIGHT (tonnes)	YIELD (m3/t)	SLURRY DENSITY (kg/m3)	THICK TIME (mins)	MIX WATER RATIO (m3/t) TEMP (deg C)
SCAVENGER	-								
FILL	-								
TAIL	-								
OTHER	-								

C. Record of Operations							
OPERATION DESCRIPTION	START TIME (day / hr:min)	FINISH TIME (day / hr:min)	ELAPSED TIME	VOLUME (m3)	RATE (m3/min)	PRESSURE (kPa)	
						MAX.	MIN.
MUD CONDITIONING	/ :	/ :					
POOH W/ DRILL PIPE	/ :	/ :					
RIH W/ CASING	/ :	/ :					
CIRCULATION	/ :	/ :					
CEMENTING - PREFLUSH	/ :	/ :					
- SCAVENGER	/ :	/ :					
- FILL	/ :	/ :					
- TAIL	/ :	/ :					
- OTHER	/ :	/ :					
RLSE TOP PLUG & PO LINES	/ :	/ :					
DISPLACEMENT	/ :	/ :					
BUMP PLUG & BLEED OFF	/ :	/ :					
CEMENT RETURNS	TYPE:		VOLUME: m3				
FLOAT HELD	YES ☐ NO ☐						

CD 06/97

Page 2 of 2



PAJAK ENGINEERING LTD.

CASING SUMMARY REPORT

NAME: CDN FOREST et al FLETT RAPIDS I-61		DATE: 99/01/13
LOCATION: 300-I61-6050-12315-0		GL ELEVATION: 254.99 m
		K.B. ELEVATION: 262.49 m
SURFACE () INTERMEDIATE () PRODUCTION (X)		K.B. TO GROUND: 7.50 m

SIZE: 177.80 mm	WEIGHT: 43 kg/m	GRADE: L80
MAKE: Nippon	THREAD: NSCC	CONDITION: new
FLOAT/GUIDE SHOE - MAKE: Import		FLOAT COLLAR - MAKE: Import
HANGER - TYPE:		
RAN: 60 jts. 177.80 mm OD CASING SET @ 2659.00 m (by pipe tally)		

Casing String Details

ITEM	LENGTH (m)	DEPTH LANDED (mKB)	ITEM	LENGTH (m)	DEPTH LANDED (mKB)
Float shoe	0.54	2659.00	Tie back	2.29	1901.17
Float collar	0.45	2647.71			
Latch down sub	0.60	2640.65			
Hanger	1.80	1902.97			

CASING BOWL

SIZE: 340 x 346 mm
SERIAL #: 23673-01
TYPE: Ralza
API: 35000 kPa

CENTRALIZERS

NO.: 20
INTERVALS: 2655.00 - 1900.00
MAKE: Davis
TYPE: Latch on

CASING HANGER

SIZE: 340 x 244 mm
MAKE: Rector
TYPE: Spzwa
API: 35000 kPa

SCRATCHERS

NO.:
INTERVALS: -
MAKE:
TYPE:

RECIPROCATED/ROTATE CASING IN	0.00 m/rpm	STROKES/RPM	0 mins. PRIOR TO CEMENTING
RECIPROCATED/ROTATE CASING IN	0.00 m/rpm	STROKES/RPM	0 mins. WHILE CEMENTING
SURPLUS: 3 jts., 39.80m.			

REMARKS: (Circ. pressures, mud properties, additional equip., etc.)

Circulated at .934m³/min with a pump pressure of 2200 kPa and a string weight of 80,000 daN lowering density to 1160 kg/m³, viscosity to 60 s/l and yp to 8.

SUPERVISOR: D.Solberg/M.Rogerson PHONE #: (600) 700-2629 CCARD #:

PAJAK ENGINEERING LTD.

CASING TALLY

WELLNAME: CDN FOREST et al FLETT RAPIDS I-61										DATE: 99/01/13				
LOCATION: 300-161-6050-12315-0														
SUPERVISOR: D.Solberg/M.Rogerson										PHONE #: (600) 700-2629		CCARD #:		
SIZE: 177.80mm		WEIGHT: 43 kg/m		THREAD: NSCC		GRADE: L80		MAKE: Nippon						
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
1	10.75		31	13.39		61	13.31	1	91			121		
2	6.61		32	13.30		62	13.19	1	92			122		
3	13.73		33	13.21		63	13.30	1	93			123		
4	13.67		34	13.28		64			94			124		
5	11.79		35	13.15		65			95			125		
6	13.48		36	13.31		66			96			126		
7	13.73		37	13.23		67			97			127		
8	13.02		38	13.29		68			98			128		
9	13.57		39	13.26		69			99			129		
10	6.46		40	13.11		70			100			130		
TOTAL	116.81		TOTAL	132.53		TOTAL	39.80		TOTAL			TOTAL		
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
11	11.38		41	13.26		71			101			131		
12	11.71		42	13.13		72			102			132		
13	11.73		43	13.22		73			103			133		
14	12.09		44	13.15		74			104			134		
15	12.03		45	13.15		75			105			135		
16	11.70		46	13.26		76			106			136		
17	11.88		47	12.96		77			107			137		
18	10.94		48	10.39		78			108			138		
19	11.53		49	12.13		79			109			139		
20	11.74		50	13.22		80			110			140		
TOTAL	116.73		TOTAL	127.87		TOTAL			TOTAL			TOTAL		
JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*	JT. #	LENGTH	*
21	11.86		51	13.31		81			111			141		
22	12.03		52	13.27		82			112			142		
23	12.08		53	13.30		83			113			143		
24	13.25		54	13.09		84			114			144		
25	13.24		55	13.04		85			115			145		
26	13.26		56	13.29		86			116			146		
27	13.24		57	12.85		87			117			147		
28	13.27		58	13.25		88			118			148		
29	13.28		59	13.21		89			119			149		
30	13.10		60	13.28		90			120			150		
TOTAL	128.61		TOTAL	131.89		TOTAL			TOTAL			TOTAL		
GROUP #	LENGTH	GROUP #	LENGTH	GROUP #	LENGTH	JTS.	LENGTH							
1- 10	116.81	51- 60	131.89	101-110		63	794.24	Brought Forward						
11- 20	116.73	61- 70	39.80	111-120		63	794.24	Page Total						
21- 30	128.61	71- 80		121-130		3	39.80	Total on Location						
31- 40	132.53	81- 90		131-140		60	754.44	Total Left Out (incl. LI)						
41- 50	127.87	91-100		141-150				Total Perm. in Hole						
TOTAL					794.24									

REMARKS
3 jts., 177.8mm, 43.16 kg/m, L-80, NSCC, 39.80m returned to PeBen, Nisku via Transcontinental on 1999.01.14, shipped by M. Rogerson.

CD M/M

* 1 = Left Out 2 = Damaged

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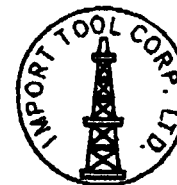


PROPOSED LINER COMPLETION

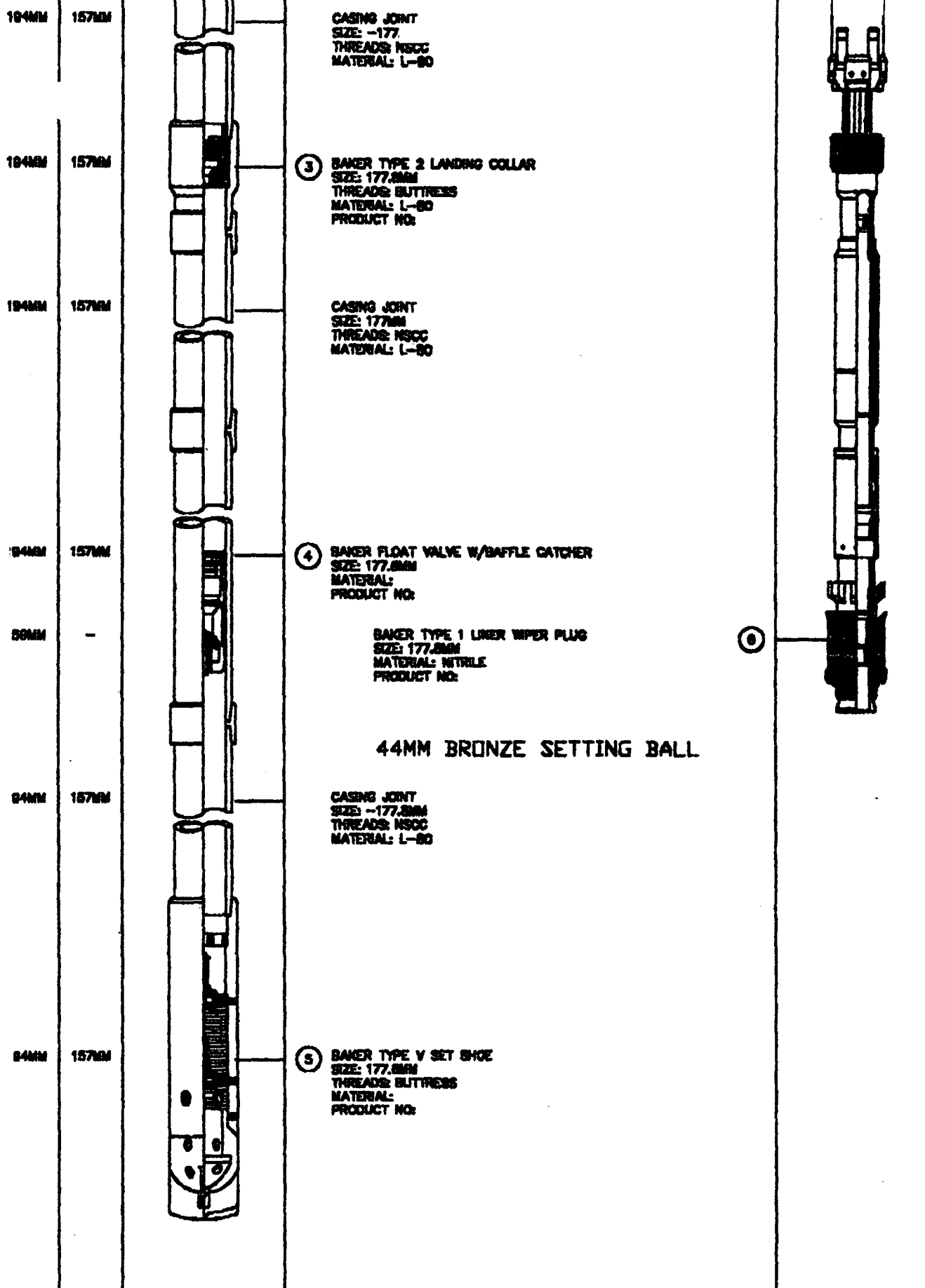
CUSTOMER: PAJACK ENGINEERING, CDN. FOREST FLETT RAPIDS

DATE: JANUARY 7, 1999

DRAWN BY: BOB KILBACH



MAX. OD	MIN. ID	LINER SCHEMATIC	DESCRIPTION	SETTING ACCESSORIES
			BAKER LAKE CHARLES PLUG DROPPING MANIFOLD SIZE: - THREADS: 114MM IF MATERIAL: 4140 HT PRODUCT NO: BAKER PUMP DOWN PLUG SIZE: 114MM MATERIAL: NITRILE PRODUCT NO: ① BAKER RH LINER SETTING SLEEVE - 1.63M TYPE 3 EXT. SIZE: 177.8MM THREADS: BRD LT&C BOX FLOAT NUT: MATERIAL: L-80 PRODUCT NO: BAKER FLAG SUB SIZE: - THREADS: 114MM IF MATERIAL: 4140 HT PRODUCT NO:	
108MM	100MM			
12MM	157MM		② BAKER "HMC" LINER HANGER SIZE: 177.8MM THREADS: SFL PIN X BUTTRESS CASING RANGE: 244MM MATERIAL: L-80 PRODUCT NO:	
14MM	157MM		BAKER ROTATING "2RH" LINER SETTING TOOL w/STANDARD TORQUE CONTROL RING SIZE: 177.8MM THREADS: 4-1/2" IF MODIFIED BOX X 2-7/8" ELB BRD BOX FLOAT NUT:	



PAJAK

TRT. # 61252
Date JAN 15-14 '99

WILLIAMS

Tensile Test				
Max Load	FL-Lbs	DP		FL-Lbs
Max Surface	FL-Lbs	Actual		FL-Lbs

Run V² zone, 15' Mer, Bed. Flat collar, 15' Liner, factor landing collar + 8873 Liner
Thread locked with 10 JTS bolters + hanger. Run island DP to inside. stopped at
1045, coming shoe - circ bolters up. Run into open hole to TD, circ 4 hrs. Retel 1 in
at Bottom, drop ball set hanger with 11 mps, checked off. OK pressure to 1740, shear
out OK. Circ with R. g. pickup head, put 10,000 lb on tool + rotate off. OK



PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

L NAME: CON FOREST et al FLETT RAPIDS I-61 A: 3001616050123150		LOCATION: 300-161-6050-12315-0 CPA NO.:		DATE: 99/01/14 DAY: 62	
OFFICE SUPERVISOR: Nickey Sutherland CONTRACTOR: Nabors Drlg. RIG #: 24E		KB: 262.5 m KB-GL: 7.5 m GL: 255.0 m KB-CF: 6.9 m		LICENCE NO.: WID#1851 SPUD DATE: 98/11/13 @ 12:15 hrs. RIG RELEASE: @ : hrs. WELL STATUS:	
WEATHER: clear Midnight DEPTH: 2660.00 m 8:00 a.m. DEPTH: 2660.00 m		TEMP: -17 °C PROGRESS: 0.00 m 8:00 a.m. OPERATION: Cementing 177.8mm Liner with Sanjel Cementers.		FINAL TD: m FORMATION: PBTD: m FORMATION:	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 47106 CUMULATIVE COST: \$ 4227437

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1 215.9mm bit	1 172mm bitsub	3 168mm DC	1 jar
12 168mm DC	1 X/O sub	9 HW/DP	
LENGTH: 228.37 m WT. BELOW JARS: 8000 daN JAR HRS: 168.2 JAR SERIAL #: 10708			
WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: 77000 daN			
DRILL PIPE O.D.: 127 THREAD: 114 IF DRILL COLLARS O.D.: 168 THREAD: 127mm-90 NO. IN HOLE: 18			

TOTAL ROTATING HOURS:	699.75
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BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	ROZERS mm			DEPTH		MTBS	MTBS PER HOUR	ROZERS ON BIT		BIT	CUTTING STRUCT								REMARKS
					1	2	3	IN	OUT			DEL	END		1	2	3	4	5	6	7	8	
3B	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2393	2371	176	3.0	57.75	2.50	16-17	60	8	8	BT	A	E	I	LT	PR
4B	215.9	RBI	BP753B	C4SLRB	8.7	8.7	8.7	2371	2660	89	3.0	29.75		16-17	55	4	4	BT	A	E	I	NO	LOG
5BR	215.9	Reed	TC1097	HP11	9.5	9.5	9.5	2660		0		0.00	-		2	2	VT	A	E	I	NO	TD	

LAST PIPE TALLY: 2661.51 BOARD: 2660.00 CORRECTION: YES [] NO [X]

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Flowrate Sec/L	DENSITY IN/OUT	psi	Wt cc/Whale	FC mm	PV/VP	GELS O/W	TOL Sol kg/m3	DIN Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCH kg/m3	OR %	CI mm	Cs mm	ASPHALTITY MP1 MP2	°C IN/OUT	
75	1180/1180	9.5	8.4	0.5	26/ 15.5	6.0/12.	100.00		10.00	90		6000.	1300	40	0.4 2.0	58/ 59	
/					/	/										/	
CENTRIFUGE				GENTLER				DESANDER				DEWAXER				TOTAL MUD DUMPED	
HR IN		kg/m3	OUT		kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	m3		

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PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINE	STROKE	SPM	m3/MIN	MODEL	LINE	STROKE	SPM	m3/MIN	MPa	DP m/REV	DC m/REV	VELOCITY m/sec	HP
Ensco	140	254	40	0.47	Ensco	140	254			700	19.6	32.6	36.7	6.95

SURVEYS			TIME BREAKDOWN				MUD ADDITIVES	
AZIMUTH			DRILLING	SURVEYING		Barite		
• @	m		RIG SERV	0.25	SAFETY MTG	0.25	Sod Sulf	
• @	m		TRIPPING	4.00	HWDL TOOLS	2.25	Deform Sil	
• @	m		CIRCULATE	1.75	PRESS TEST		Bldg.rent	
• @	m		CEMENTING		REPAIRS		1	
• @	m		CLN TO BTN		SOP DRILL		Chemcide	
• @	m		SLIP & CUT		LOGGING		Drispac re	
• @	m		REAMING				Starpac	
• @	m		RUN CSG	15.50			Gel Nat	
• @	m						Lignite	
• @	m						Corinax	
• @	m						Kelzan	
• @	m						Caustic	
			TOTAL HOURS: 24.00					

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
 1999.01.13 @ 00:00 Hours
 Tripped bit #68. Rigged to run 177.8mm Liner. Held prejob safety meeting prior to running 177.8mm Liner. Ran 60 joints 177.8mm, 43.16 kg/m, NT80SS Nippon casing. Total length 761.22m. Circulated bottoms at 790mKB. Tripped in Liner to 2066mKB. Broke circulation and circulated bottoms up.
 Tripping in Liner from 2066mKB to 2243mKB to 23:59 hours 1999.01.13.
 Note #1: Held daily meeting with both crews.
 Topic: Handling casing and equipment.
 #2: First 10 joints were 177.8mm, 43.16 kg/m, L80 buttress casing.

SUPERVISOR: D.Solberg/N.Rogerson	PHONE #: (600) 700-2629	CALLING CARD#:
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**DYNAMIC DRILLING FLUIDS
INTERNATIONAL LTD.**

DRILLING MUD REPORT

Date 99-01-14 Check No. 63

OPERATOR: <u>CANADIAN FOREST OIL LTD</u>				CONTRACTOR: <u>NABORS DRILL</u>				RIG NO.: <u>24</u>			
REPORT FOR: <u>MURRAY ROBERTSON/DARK SOLIDERS</u>				REPORT FOR: <u>BRIAN GIVAN</u>				SPUD DATE: <u>98-11-13</u>			
WELL NAME: <u>CAN FOREST et al FLETT RAPIDS</u>				LOCATION: <u>T-61</u>				DAYS FROM SPUD: <u>62</u>			
BIT DATA			DRILL STRING			CASING			MUD VOLUME (m³)		
SIZE (mm)	TYPE:	D.P. SIZE	mm	LENGTH	m	SLURF	mm	AT	mm	IN HOLE:	
DEPTH IN:	m/R.P.M.		mm	LENGTH	m	INT	mm	AT	mm	IN TANKS:	
W.O.B. (daN) (FORCE)		D.C. SIZE	mm	LENGTH	m	BIT:	mm	AT	m	TOTAL:	
NOZZLE SIZE (mm)			mm	LENGTH	m	LINER:	mm	AT	m	IN STORAGE:	
PUMP AND CIRCULATION DATA						EQUIPMENT					
PUMP	#1	#2	ANGULAR VELOCITY			SOLIDS CONTROL	OVERFLOW	UNDERFLOW	UNDERFLOW	HOURS	REMOVED
MODEL	F-1000		D.P. & HOLE				DEBS	DEBS	RATE	Run	Lph
LINER (mm)	140		D.P. & CSG.								
STROKE (mm)	254		D.C. (mm)								
STROKE/min	80		D.C. (mm)								
L/STROKE	11.68		CIRCULATION TIMES			CURRENT OPERATION AND REMARKS:					
L/min	934		BOTTOMS UP: (min)			CR. LINE - CONDITIONS MUD					
m³/min	.934		MUD CYCLE			To Cement.					
STANDPIPE PRESSURE (kPa) (MPa)						2170					
SAMPLE FROM FLOWLINE L TANK				MUD PROPERTIES		RECOMMENDED TREATMENT:					
FLOWLINE TEMP		TIME		21.00/04:15		Mix - 4 SRS HIGHRE AT 3000/10					
DEPTH (m)		2660		86 60		- Run 40 bit/min WATER.					
FUNNEL VISCOSITY (SAU) @ °C		1180 1160		30 21		- 2 DEFORMER AT 60 min/10					
DENSITY (kg/m³)		2.0 2.1		8.5 3.6		04:30 MUD REMOVED FOR					
PLASTIC VISCOSITY (mPa.s) at °C		2.0 2.1		8.5 3.6		Cementing work.					
YIELD POINT (Pa)		2.0 2.1		8.5 3.6		Thank you men					
GEL STRENGTH (Pa) 10s/10 min		2.0 2.1		8.5 3.6		10					
pH STRIP (METER)		2.0 2.1		8.5 3.6		10					
FILTRATE (cm³/30 min at 700 kPa) °C		2.0 2.1		8.5 3.6		10					
CAKE THICKNESS (mm)		2.0 2.1		8.5 3.6		10					
SAND CONTENT (Vol. Fraction) @ SAND		2.0 2.1		8.5 3.6		10					
SOLIDS CONTENT (Vol. Fraction) @ SOLIDS		2.0 2.1		8.5 3.6		10					
M.B.T. (Bent. Equip.) (kg/m³)		2.0 2.1		8.5 3.6		10					
OIL CONTENT (Vol. Fraction) @ 600/100		2.0 2.1		8.5 3.6		10					
ALKALINITY FILTRATE (METER)		2.0 2.1		8.5 3.6		10					
CALCIUM (mg/L)		2.0 2.1		8.5 3.6		10					
CHLORIDES (mg/L)		2.0 2.1		8.5 3.6		10					
POLYMER (kg/m³)		2.0 2.1		8.5 3.6		10					
K ⁺ ion		2.0 2.1		8.5 3.6		10					
SULFITE		2.0 2.1		8.5 3.6		10					
WAREHOUSE						MUD ENGINEER					
F. Wilson - 745-4773						554-4773					

DYNAMIC DRILLING FLUIDS INTERNATIONAL LTD. shall not be liable for any damage resulting from the furnishing of this report and oral suggestions and it is to be held harmless.

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/13	
N.W.I.: 3001616050123150		CPA NO.:		DAY: 61	
OFFICE SUPERVISOR: Nickey Sutherland		LICENCE NO.: WID#1851			
CONTRACTOR: Nabors Drlg.		KB: 262.5 m	KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.	
RIG #: 24E		GL: 255.0 m	KB-CF: 6.9 m	RIG RELEASE: @ : hrs.	
WEATHER: Clear		TEMP: -24 °C		WELL STATUS:	
Midnight DEPTH: 2660.00 m		PROGRESS: 0.00 m		FINAL TD: m FORMATION:	
8:00 a.m. DEPTH: 2660.00 m		8:00 a.m. OPERATION: Running 177.8mm production liner.		PSTD: m FORMATION:	

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 154396 CUMULATIVE COST: \$ 4180331

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1 215.9mm bit		1 172mm bitsub		3 168mm DC		1 jar	
12 168mm DC		1 X/O sub		9 HW/DP			
LENGTH: 228.37 m		WT. BELOW JARS: 8000 daN		JAR HRS: 168.2		JAR SERIAL #: 10708	
WT. ON BIT: 0 daN		ROTARY RPM:		STRING WT.: 107000 daN			
DRILL PIPE O.D.: 127		THREAD: 114 IF		DRILL COLLARS O.D.: 168		THREAD: 127mmH-90	
						NO. IN HOLE: 18	

TOTAL
ROTATING
HOURS: 699.75B
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BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRE	MTRE PER HOUR	HOURS ON BIT		BIT	CUTTING STRUCT								REMARKS	
					1	2	3	IN	OUT			ONL	ROD		MTASH	RPM	I	O	D	L	B	C		O
3B	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395	2571	176	3.0	57.75	2.50	16-17	60	8	8	BT	A	E	I	LT	PR	
4B	215.9	RBI	BP753B	C45LR6	8.7	8.7	8.7	2571	2660	89	3.0	29.75		16-17	55	4	4	BT	A	E	I	NO	LOG	
5BRR	215.9	Reed	TC1097	HP11	9.5	9.5	9.5	2660		0		0.00		-										

LAST PIPE TALLY: 2661.51 BOARD: 2660.00 CORRECTION: YES [] NO [X]

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VIScosity Sec/L	DENSITY IN/OUT	pH	WL cc/30sec	PC mm	PV/YP	GELS O/15	Tst. Sol kg/m3	DNS Sol kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY MP1 MP2	°C IN/OUT
75	1180/1180	9.5	8.4	0.5	26/ 15.5	6.0/12.	100.00		10.00	90		6000.	1300	40	0.4 2.0	58/ 59
CENTRIFUGE			DESILTER			DESANDER			DEASSER			TOTAL MUD DUMPED				
0 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3				

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PUMP NO. 1 TYPE F-1000					PUMP NO. 2 TYPE F-1000					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MPa	OP m3/HR	DC m3/HR	VELOCITY m/sec	RHP
Emsco	140	254	40	0.47	Emsco	140	254	40	0.47	6000	39.3	65.1	73.4	55.60

SURVEYS			TIME BREAKDOWN				MUD ADDITIVES	
AZIMUTH			DRILLING	SURVEYING		Barite	80	
• @	m		RIG SERV	0.25	SAFETY MTG	0.25	Sod Sulf	2
• @	m		TRIPPING	11.00	HWDL TOOLS	1.25	Defoam Sil	
• @	m		CIRCULATE	7.25	PRESS TEST		Bldg.rent	1
• @	m		CEMENTING		REPAIRS		Chemcide	
• @	m		CLN TO BTM		BOP DRILL		Drispec re	
• @	m		SLIP & CUT		LOGGING	4.00	Sterpac	
• @	m		REANING				Gel Nat	
• @	m						Lignite	
• @	m						Corinox	2
• @	m						Kelzan	
• @	m						Caustic	2
			TOTAL HOURS: 24.00					

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tools, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.12 @ 00:00 Hours

Pulled out MDT tool to 2030mKB. Pulled out wireline. Laid down SE sub and sheaves. Hoisted and laid down MDT tools. Laid down monels, 3 point roller reamers and shock sub. Ran in hole with bit. Circulated and conditioned hole for liner. Hoisted to run liner to 24:00 hours 1999.01.12.

Note #1: Held daily meeting with both crews.

Topic: Pinch points.

#2: Top of top element on MDT tool separated resulting in failure of tests.

SUPERVISOR: D.Solberg/M.Rogerson	PHONE #: (600) 700-2629	CALLING CARD#:
CD 6/17		



**DYNAMIC DRILLING FLUIDS
INTERNATIONAL LTD.**

DRILLING MUD REPORT

Date 99-01-12 Check No. 62

OPERATOR: CANADIAN FOREST OIL LTD		CONTRACTOR: WABORS DRUG		RIG NO: 24	
REPORT FOR: MURRAY ROBERTSON		REPORT FOR: BROWN BROWN		SPUD DATE: 98-11-13	
WELL NAME: CAN FOREST et al FURIE RADIUS		LOCATION: I-61		DAYS FROM SPUD: 60	
BIT DATA		DRILL STRING		CASING	
SIZE (mm): 115.7	TYPE: HP11	D.P. SIZE: 127 mm	LENGTH: 2523 m	SURF: 337 mm AT 568 m	IN HOLE: 93
DEPTH IN: 2660 m	R.P.M.: -	mm LENGTH: -	m	INT: 244.5 mm AT 2068 m	IN TANKS: 88
W.O.B. (dwt) (FORCE): -	D.C. SIZE: 168 mm	LENGTH: 137 m	INT: - mm AT - m	TOTAL: 181	
NOZZLE SIZE (mm): 319.5	mm LENGTH: -	m	LINE: - mm AT - m	IN STORAGE: -	
PUMP AND CIRCULATION DATA				EQUIPMENT	
PUMP	#1	#2	ANNULAR VELOCITY	SOLIDS CONTROL	OTHER EQUIPMENT
MODEL: F-1000			D.P. & HOLE: - m/min		
LINER (mm): 140			D.P. & CSG: - m/min		
STROKE (mm): 254			D.C. (mm): - m/min		
STROKE/min: 80			D.C. (mm): - m/min		
L/STROKE: 11.68			CIRCULATION TIME: -	CURRENT OPERATION AND REMARKS:	
L/min: 934			BOTTOMS UP: (min): 22	HOLD MUD LOG TOOLS - R.I.H.	
m³/min: .934			MUD CYCLE: 194	CIR. PRIOR TO RUNNING LINER	
STANDPIPE PRESSURE @ (kPa) U (MPa)					
SAMPLE FROM ☒ FLOWLINE ☐ TANK		MUD PROPERTIES		RECOMMENDED TREATMENT: WHILE CIRCULATING	
FLOWLINE TEMP: 59°C / 59°C		TEMP: 11.00		① RAISE pH TO 10.0 WITH CAUSTIC SODA.	
DEPTH (m): 2660		DENSITY (g/cm³): 1.180		② ADD 2 CORINOX / 2 SODIUM SULFIDE	
FUNNEL VISCOSITY (cP) @ 25 °C		YIELD POINT (Pa): 2.6		③ RUN SHIT / MAIN WATER.	
DENSITY (g/cm³): 1.180		GEL STRENGTH (Pa) 10s/10 min: 15.2		THANKS MURRAY	
PLASTIC VISCOSITY (mPa.s) at 25 °C		GEL STRENGTH (Pa) 10s/10 min: 6.12			
YIELD POINT (Pa): 2.6		pH ☐ STRIP METER: 9.5			
GEL STRENGTH (Pa) 10s/10 min: 15.2		FILTRATE (cm³/30 min at 700 kPa) 2.9			
pH ☐ STRIP METER: 9.5		CAKE THICKNESS (mm): 1.5			
FILTRATE (cm³/30 min at 700 kPa) 2.9		SAND CONTENT (Vol. Fraction) @ SAND: 1.00			
CAKE THICKNESS (mm): 1.5		SOLIDS CONTENT (Vol. Fraction) @ SOLIDS: 1.0			
SAND CONTENT (Vol. Fraction) @ SAND: 1.00		M.B.T. (Bent. Equiv.) (kg/m³): 90			
SOLIDS CONTENT (Vol. Fraction) @ SOLIDS: 1.0		OIL CONTENT (Vol. Fraction) 600/300			
M.B.T. (Bent. Equiv.) (kg/m³): 90		ALKALINITY FILTRATE pH @ 100 mL: 9.2			
OIL CONTENT (Vol. Fraction) 600/300		CALCIUM (mg/L): 90			
ALKALINITY FILTRATE pH @ 100 mL: 9.2		CHLORIDES (mg/L): 1300			
CALCIUM (mg/L): 90		POLYMER (kg/m³): 1.4			
CHLORIDES (mg/L): 1300		K⁺ Ion: 6000			
POLYMER (kg/m³): 1.4		SULFIDE: 100			
K⁺ Ion: 6000				WHILE CIRCULATING LINED	
SULFIDE: 100				① + SQUARE SECTION TANK WITH MINIMUM VOLUME +	
				ADD 4 LITERS AT 30 MIN/SEC + WATER AT 40 LIT/MIN FOR 2H	
WAREHOUSE		MUD ENGINEER			
FT. WILSON - PHONE: 785-4222		ED SANDERSON - XT6-4153		554-1177	

DYNAMIC DRILLING FILLS INTERNATIONAL LTD. shall not be liable for any damage resulting from the furnishing of this report and oral suggestions and it is to

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CON FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/12	
U.W.I.: 3001616050123150		CPA NO.:		DAY: 60	
OFFICE SUPERVISOR: Nickey Sutherland		LICENCE NO.: WID#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drlg.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Clear		TEMP: -34 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 2660.00 m		PROGRESS: 0.00 m		PBDT: m FORMATION:	
8:00 a.m. DEPTH: 2660.00 m		8:00 a.m. OPERATION: Pulling out of hole with MDT tools.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 28518 CUMULATIVE COST: \$ 4025935

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1 215.9mm bit		1 172mm bit sub		3 168mm DC		1 jar	
12 168mm DC		1 X/O sub		9 HM/DP			
LENGTH: 228.37 m		WT. BELOW JARS: 8000 daN		JAR HRS: 168.2		JAR SERIAL #: 10708	

TOTAL ROTATING HOURS: 699.75

WT. ON BIT: 0 daN ROTARY RPM: STRING WT.: 107000 daN
 DRILL PIPE O.D.: 127 THREAD: 114 IF DRILL COLLARS O.D.: 168 THREAD: 127mm-90 NO. IN HOLE: 18

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BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		WTR	WTR PER HOUR	HOURS ON BIT		BIT	CUTTING STRUCT				REMARKS				
					1	2	3	IN	OUT			DEL	END		WTR/R	RPM	I	O		D	L	B	E
38	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395	2571	176	3.0	57.75	2.50	16-17	60	8	8	BT	A	E	I	LT	PR
48	215.9	RBI	BP7538	C45LRG	8.7	8.7	8.7	2571	2660	89	3.0	29.75		16-17	55	4	4	BT	A	E	I	NO	LOG
58rr	215.9	Reed	TC1097	HP11	9.3	9.3	9.3	2660		0		0.00		-									

LAST PIPE TALLY: 2661.51 BOARD: 2660.00 CORRECTION: YES [] NO [X]

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Viscosity Sec/L	DENSITY M/OUT	pH	Wt cc/Min	PC mm	PV/VP	GELS 0/18	Tot. Sol. M/m3	D/L Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	CM %	Cl ppm	Ca ppm	ALKALINITY MPP	MPO	°C IN/OUT
85	1170/1170	10.0	7.4	0.5	29/ 17.5	12./15	100.00		10.00	100		8000.	1400	60	0.6	2.2	48/ 51
	/				/	/											/
CENTRIFUGE				DECATER				DEBANDER				DECAUSER				TOTAL MUD DUMPED	
0 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3	

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PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINEAR mm	STROKE mm	SPM	W/HR	MODEL	LINEAR mm	STROKE mm	SPM	W/HR	MP	DP M/HR	DC M/HR	VELOCITY m/sec	HHP
Emeco	140	254	80	0.94	Emeco	140	254			2700	39.3	65.1	73.4	55.12

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES		
AZIMUTH			DRILLING	SURVEYING		Barite		
• @	m		RIG SERV	SAFETY HTG	0.50	Sod Sulf		
• @	m		TRIPPING	HNDL TOOLS		Defoam Sil		
• @	m		CIRCULATE	PRESS TEST		Bldg.rent	1	
• @	m		CEMENTING	REPAIRS		Chemoide		
• @	m		CLN TO BTH	BOP DRILL		Driscap re		
• @	m		SLIP & CUT	LOGGING	9.50	Starpac		
• @	m		REAMING			Gel Net		
• @	m					Lignite		
• @	m					Corinox		
• @	m					Kelzan		
• @	m					Cavetic		
			TOTAL HOURS: 24.00					

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.11 @ 00:00 Hours

Logged with Schlumberger. Made up and ran in hole with Schlumberger MDT tool. Spliced wet connect. Checked tools. Picked up 21 singles. Ran in to intermediate shoe. Wet connected and circulated bottoms up. Ran in to 2565.8mKB. Inflated and tested with MDT tool. Lost packer seat. Could

not get packers to reinflate. Hoisted out of hole to 24:00 hours 1999.01.11.

Note: Held daily meeting with both crews.

Topic: MDT testing.

SUPERVISOR: D.Solberg/W.Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

CD M/RT

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 12, 1999
REPORT TO: Gary Winter

WELL REPORT NO. 60
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-800-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS I-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 60

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2660 (2622.2 TVD) m K.B.

FORMATION: Camseil Fm.

24 HOUR PROGRESS: 0 m

AVERAGE DRILLING RATE: NA

00:00 HOUR STATUS: Pump pill prior to POOH / Schlumberger MDT.

05:00 HOUR DEPTH: 2660 (2622.2 TVD) m

FORMATION: Camseil Fm.

CURRENT DRILLING RATE: NA.

05:00 HOUR STATUS: POOH / Schlumberger MDT.

WEATHER: Snow, calm, with a daytime High of - 27 degrees C. , & an overnight Low of - 31 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Rig up - R/H / Schlumberger MDT. Set packers at first test point 2565.8 (2528.1) m, problems with line tension - variable formation pressure readings of 26,168 kpa. Started water sample - lost packer seal & sample most probably contaminated with drilling fluid. Attempted retest at same interval, could not get packers inflated - suspect packer element failure. Abandon testing. POOH.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: POOH / Schlumberger MDT.

SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES: Density: 1170 kg/m³ Viscosity: 85 s/L Water Loss: 7.4 cm³/30 min
pH: 10.0 F.C.: .5 mm Temp: 51 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2069.5	2037.5	- 1775.0	+ 199
Intermediate Casing	- 1975	2067.7	2035.3	- 1772.8	+ 202
NAHANNI DOL.		2208.6	2172.6	- 1910.3	
HEADLESS	- 2148	2239	2202.6	- 1940.1	+ 208
LANDRY LST.		2290.7	2253.9	- 1991.4	
ARNICA	- 2182	2310	2273.1	- 2010.6	+ 171
L. DEV. SOMBRE	- 2425	2448	2410.6	- 2148.1	+ 277
CAMSELL	- 2460	2486	2448.5	- 2185.0	+ 275
FTD		2660	2622.2	- 2359.7	
Cumulative Well Cost To Date:	\$		(99/01/12)		
	\$ 3,997,417		(99/01/11)		

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS 1-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/11	
W.I.: 3001616050123150		CPA NO.:		DAY: 59	
OFFICE SUPERVISOR: Nickey Sutherland		LICENCE NO.: VID#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drig.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Snow		TEMP: -32 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 2660.00 m		PROGRESS: 0.00 m		PBTD: m FORMATION:	
8:00 a.m. DEPTH: 2660.00 m		8:00 a.m. OPERATION: Running in hole with Schlumberger MDT tools on drill pipe.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 37412 CUMULATIVE COST: \$ 3997417

1 215.9mm bit	1 172mm bitsub	3 168mm DC	1 jar	TOTAL ROTATING HOURS: 699.75
12 168mm DC	1 X/O sub	9 HV/DP		
LENGTH: 228.37 m	WT. BELOW JARS: 8000 daN	JAR HRS: 168.2	JAR SERIAL #: 10708	
WT. ON BIT: 0 daN	ROTARY RPM:	STRING WT.: 107000 daN		
DRILL PIPE O.D.: 127	THREAD: 114 IF	DRILL COLLARS O.D.: 168	THREAD: 127mmH-90	NO. IN HOLE: 18

BIT S

BIT NO	SIZE mm	NAME	SERIAL #	TYPE	NOZZLES mm			DEPTH		WTR	MTR PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT										REMARKS
					1	2	3	IN	OUT			DRL	END	WT&N	RPM	I	O	D	L	B	G	O	R			
3B	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395	2571	176	3.0	57.75	2.50	16-17	60	8	8	BT	A	E	I	LT	PR			
4B	215.9	RBI	BP7538	C4SLRG	8.7	8.7	8.7	2571	2660	89	3.0	29.75		16-17	55	4	4	BT	A	E	I	NO	LOG			
5BRR	215.9	Reed	TC1097	HP11	9.5	9.5	9.5	2660		0		0.00		-												

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES [] NO [X]

MUD

VISCOSITY Pa/s	DENSITY kg/OUT	pH	WT m/100ml	PC mm	PV/VP	GELS 0/10	Tot. Sol kg/m3	DRG. Sol kg/m3	SAND kg/m3	DETONITE kg/m3	LOSS kg/m3	DR %	CI mm	C ₂ mm	ALUMINUM mm	MFO mm	W/OUT	°C
85	1160/1160	10.0	7.4	0.5	28/ 16.5	6.0/14.	100.00		10.00	90		8000.	1250	40	0.8	2.0	52/ 52	
	/				/	/											/	
CENTRIFUGE					DEBITER				DEMANDER		DEMANDER			TOTAL MUD DUMPED				
0 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3							

PUMP NO. 1					PUMP NO. 2					PRESSURE		ANGULAR VELOCITY		JET	
MODEL	LINEAR mm	STROKE mm	SPM	m ³ /MIN	MODEL	LINEAR mm	STROKE mm	SPM	m ³ /MIN	PSI	DP m/FEET	DC m/MIN	VELOCITY m/sec	HP	
Emeco	140	254	80	0.94	Emeco	140	254			5400	39.3	65.1	73.4	54.65	

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES		
AZIMUTH			DRILLING	SURVEYING		Barite	40	
• @	m		RIG SERV	SAFETY HTS		Sod Sulf		
• @	m		TRIPPING 5.50	HWDL TOOLS		Defoam Sil		
• @	m		CIRCULATE 0.50	PRESS TEST		Bldg.rent	1	
• @	m		CEMENTING	REPAIRS		Chemcide		
• @	m		CLN TO BTN	BOP DRILL		Driscap re		
• @	m		SLIP & CUT	LOGGING 18.00		Starpac		
• @	m		REAMING			Gel Net		
• @	m					Lignite		
• @	m					Corinox		
• @	m					Kelzan		
• @	m					Caustic		
			TOTAL HOURS: 24.00					

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.10 @ 00:00 Hours

Circulated and conditioned hole for logging. Hoisted out of hole. Conducted required flow checks. Rigged to and logged with Schlumberger.

Log #1: DIL/CNL/LDT/GR, 2660-2067mKB.

Log #2: DSI/NGT, 2660-2067mKB.

Log #3: FRI/NGT, 2660-2300mKB.

Logged to 24:00 hours 1999.01.10.

SUPERVISOR: D.Solberg/N.Rogerson	PHONE #: (600) 700-2629	CALLING CARD#:
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PAJAK ENGINEERING LTD.

DRILLING COST REPORT

NAME: CDN. FOREST et al FLETT RAPIDS I-61						AFE #: A983002		
LOCATION: 300-161-6050-12315-0						PRESENT DEPTH: 2660 m		
Description	Date	Date	Date	Date	Date	5 DAY	PREV.	TOTAL
	99/01/06	99/01/07	99/01/08	99/01/09	99/01/10	TOTAL	TOTAL	COST
INTERMEDIATE CASING m of 244 mm							236404	236404
PRODUCTION CASING m of mm								
SURFACE CASING m of 339 mm							168758	168758
DRILLING BITS		9890				9890	127298	137188
DAYWORK \$ /DAY	14176	14176	14176	14176	14176	70880	853554	924434
DIRECTIONAL DRILLING							198413	198413
FUEL	4757		1014	6073		11844	171907	183751
WATER	600	600	1147	600	1148	4095	79726	83821
ENGINEERING/DESIGN							10800	10800
LEASE AND ACCESS								
- LICENCES & PERMITS								
- SURFACE LEASE & SURVEY							13000	13000
- ROAD & LEASE PREPARATION							153550	153550
- RESTORATION & CLEAN-UP								
RIG AND CAMP MOVE							232399	232399
DRILLING FLUIDS	1784	3141	3594	3959	968	13446	336577	390023
BOILER	1440	1440	1440	1440	1440	7200	72320	79520
COMMUNICATIONS	150	150	150	150	150	750	10350	11100
CAMP AND CATERING	3600	3300	3300	3300	3300	16800	230100	246900
CEMENT SERVICES								
- SURFACE							24612	24612
- INTERMEDIATE							70298	70298
- PRODUCTION/LINER								
CORING AND ANALYSIS								
EQUIPMENT RENTALS	2134	2134	2134	2134	1569	10105	113574	123679
DRILL STEM TESTS								
LOGGING							125691	125691
SAFETY SERVICES	1715	1715	1715	1715	1715	8575	39512	48087
SPECIAL SERVICES							10244	10244
TRUCKING				955	7711	8666	87941	96607
FIELD SUPERVISION								
- FOREMAN	800	800	800	800	800	4000	73600	77600
- GEOLOGIST	1695	1695	1695	1695	1695	8475	97420	105895
- SECOND MEN								
TRAVEL/ACCOMMODATION								
OVERHEAD								
Welding/tongs/vac truck							50672	50672
Crew/all/flights/vehicle	5830	430	430	430	430	7550	74170	81720
Wadeco	2560	2560	2560	2310	2310	12300	139951	152251
DAILY COST	41241	42031	34155	39737	37412	194576	3802841	3997417
ACCUMULATED COST	3844082	3886113	3920268	3960005	3997417			

Account	Comment

SUPERVISOR: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CCARD #:

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

DATE: 99/01/10

W.L.: 3001616050123150

CPA NO.:

DAY: 58

OFFICE SUPERVISOR: Nickey Sutherland

LICENCE NO.: WID#1851

CONTRACTOR: Nabors Drlg.

KB: 262.5 m KB-GL: 7.5 m

SPUD DATE: 98/11/13 @ 12:15 hrs.

RIG #: 24E

GL: 255.0 m KB-CF: 6.9 m

RIG RELEASE: @ : hrs.

WELL STATUS:

WEATHER: Snow

TEMP: -24 °C

FINAL TD: m

FORMATION:

Midnight DEPTH: 2660.00 m

PROGRESS: 0.00 m

PSTD: m

FORMATION:

8:00 a.m. DEPTH: 2660.00 m

8:00 a.m. OPERATION: Logging.

AFE #: A983002

AFE AMT: \$ 5747200

DAILY COST: \$ 39737

CUMULATIVE COST: \$ 3960005

1 215.9mm bit 1 172mm bit sub

3 168mm DC 1 jar

12 168mm DC 1 X/O sub 9 HW/DP

TOTAL
ROTATING
HOURS: 699.75

LENGTH: 228.37 m WT. BELOW JARS: 8000 daN JAR HRS: 168.2 JAR SERIAL #: 10708

WT. ON BIT: 16000 daN

ROTARY RPM: 60

STRING WT.: 107000 daN

DRILL PIPE O.D.: 127 THREAD: 114 IF

DRILL COLLARS O.D.: 168 THREAD: 127mmH-90

NO. IN HOLE: 18

BITS

BIT NO.	SIZE mm	MARK	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT	CUTTING STRUCT										REMARKS	
					1	2	3	IN	OUT			DIRL	RECD		WT&H	RPM	F	O	D	L	B	G	O	R		
38	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395	2571	176	3.0	57.75	2.50	16-17	60	8	8	BT	A	E	I	LT	PR			
48	215.9	RBI	BP7538	CA5LRG	8.7	8.7	8.7	2571	2660	89	3.0	29.75		16-17	55	4	4	BT	A	E	I	NO	LOG			
58rr	215.9	Reed	TC1097	HP11	9.5	9.5	9.5	2660		0		0.00		-												

LAST PIPE TALLY: 2661.51

BOARD: 2660.00

CORRECTION: YES [] NO [X]

MUD	Viscosity cP/L	DENSITY kg/OUT	pH	WL m/20min	PC mm	PV/TP	GELS O/TT	Tm. Sol kg/m3	DHS Sol kg/m3	SAND kg/m3	SILT/CLAY kg/m3	LOSS kg/m3	CL %	C ppm	Ca ppm	ALKALINITY		°C	
																MP	MPO	IN/OUT	
	85	1160/1160	10.0	7.4	0.5	28/ 16.5	6.0/14.	100.00		10.00		90		8000.	1250	40	0.8	2.0	52/ 52
	/					/	/												/
	CENTRIFUGE					DESLTER			DESLANDER			DESLANDER			TOTAL MUD DUMPED				
	0 HR IN		kg/m3	OUT	kg/m3	NR OUT		kg/m3	NR OUT		kg/m3	NR OUT		kg/m3	m3				

PUMP NO. 1	TYPE: F-1000				PUMP NO. 2	TYPE: F-1000				PRESSURE	MIXED LINE VELOCITY		JET
	MODEL	LINE	STROKE	SPM		MODEL	LINE	STROKE	SPM		OP m/min	OC m/min	
Enasco	140	254	80	0.94	Enasco	140	254			5400	39.3	65.1	73.4 54.65

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES	
AZIMUTH			DRILLING	SURVEYING	0.75	Barite	135
• @	m		RIG SERV	0.50	SAFETY MTR	Sod Sulf	
• @	m		TRIPPING	10.75	HWDL TOOLS	Defoam sil	1
• @	m		CIRCULATE	5.50	PRESS TEST	Bldg.rent	1
• @	m		CEMENTING		REPAIRS	Chemcide	
• @	m		CLN TO BTH		BOP DRILL	Driscac re	
• @	m		SLIP & CUT		LOGGING	Starpec	
• @	m		REAMING			Gel Mat	9
• @	m					Lignite	
• @	m					Corinax	
• @	m					Kelzan	1
• @	m					Caustic	
			TOTAL HOURS: 24.00				

MUD COMMENTS:

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.09 @ 00:00 Hours. Circulated and conditioned mud.

Surveyed. Held rig service and safety meeting. Strapped out of hole. Riggged up Schlumberger. Ran in to 2510mKB. Logging tool became stuck. Worked free. Pulled out of hole. Caliper cylinder and arms missing. Laid down remaining tool. Ran in hole with 215.9mm bit. Did not feel anything until 0.3m from

bottom, 2659.7mKB. Tagged junk on bottom. Circulate and condition hole and mud to 24:00 hours 1999.01.09.

Note: Held daily meetings with both crews. Topics: (A) Hazards while logging. (B) Fall arrest.

SUPERVISOR: D.Solberg/W.Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

CD 01/01



DRILLING MUD REPORT

Date 99-01-09 Check No. 60

OPERATOR: Canadian Forest Oil (U)		CONTRACTOR: NARON DRILL		RIG NO: 24	
REPORT FOR: MURPHY ROBERTSON		REPORT FOR: BRIMM GINCO		SPUD DATE: 98-11-13	
WELL NAME: CDN Forest et al FLEET MARIDS		LOCATION: T-61		DAYS FROM SPUD: 87	
BIT DATA		DRILL STRING		CASING	
SIZE (mm): 24.91	TYPE: HDD	D.P. SIZE: 127	mm LENGTH: 2472	SURF: 239	mm AT: 568
DEPTH IN: 2660	R.P.M.: —	mm LENGTH: m		INT: 244.2	mm AT: 2068
W.O.B. (dIN) (POHCE): —		D.C. SIZE: 146	mm LENGTH: 137	INT: mm	AT: m
NOZZLE SIZE (mm): 319.5		244	mm LENGTH: 278	LINER: mm	AT: m
PUMP AND CIRCULATION DATA			MUD VOLUME (m³)		
PUMP #1	#2	ANNULAR VELOCITY		SOLIDS CONTROL	IN HOLE: 93
MODEL: F-1000		D.P. & HOLE: 37 m/min			IN TANKS: 87
LINER (mm): 140		D.P. & CSG: 36 m/min			TOTAL: 180
STROKE (mm): 254		D.C. (mm) mm: 64.7 m/min			
STROKE/min: 80		D.C. (mm) mm: 56.5 m/min			
L/STROKE: 11.68		CIRCULATION TIMES		EQUIPMENT	
L/min: 934		BOTTOMS UP: (min) 72		SHOVEL (LOW 75-80) higher	SHOVEL (LOW 75-80) higher
m³/min: 934		MUD CYCLE: 192		SHOVEL (LOW 75-80) higher	SHOVEL (LOW 75-80) higher
STANDPIPE PRESSURE ☒ (kPa) ☐ (MPa): 5400		CURRENT OPERATION AND REMARKS: R.I.H. - 600' 1			
SAMPLE FROM ☒ FLOWLINE ☐ TANK		OIL - LOT: CNL - (BRIDGE) OFF 2510			
FLOWLINE TEMP: 52°C TIME: 21:00		PALEO) VP - COULDN'T GET DRUCK TO			
DEPTH (m): 2660		2510 - (4444) VP, R.I.H. BELOW			
FUNNEL VISCOSITY (BL) at °C : 25		2510 - P.O.D.H. - Part of Tool Pipe			
DENSITY (kg/m³): 1120		RECOMMENDED TREATMENT:			
PLASTIC VISCOSITY (mPa.s) at °C : 28		MUD IN GOOD SHAPE FOR			
YIELD POINT (Pa): 1160		LOGGING			
GEL STRENGTH (Pa) 10s/10 min: 6114		THANK YOU MR.			
pH ☐ STRIP (HYMETER): 10.0		Ed.			
FILTRATE (cm³/30 min at 700 kPa): 24					
CAKE THICKNESS (mm): 12					
SAND CONTENT (Vol. Fraction) @ SAND: 001					
SOLIDS CONTENT (Vol. Fraction) @ SOLIDS: 10					
M.B.T. (Dist. Equiv.) (kg/m³): 90					
OIL CONTENT (Vol. Fraction): 500/1000					
ALKALINITY FILTRATE pH (LAMB): 10.0					
CALCIUM (mg/L): 40					
CHLORIDES (mg/L): 1250					
POLYMER (kg/m³): 1.3					
K ⁺ Ion: 8000					
SULFATE: 350					
WAREHOUSE: FT. NASSON - RIVIERA - 785-4222		MUD ENGINEER: 554-9773			
		KE. SANDERSON 416-4653			

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS 1-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/09	
W.L.: 3001616050123150		CPA NO.:		DAY: 57	
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drig.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Overcast		TEMP: -26 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 2660.00 m		PROGRESS: 31.00 m		PBTD: m FORMATION:	
8:00 a.m. DEPTH: 2660.00 m		8:00 a.m. OPERATION: Pulling out to log.			

AFE #: A983002		AFE AMT: \$ 5747200		DAILY COST: \$ 34155		CUMULATIVE COST: \$ 3920268	
1 215.9mm bit	1 172mm bitsub	1 monel DC	1 monel DC	1 shock sub			
1 R 3	1 168mm DC	1 R 3	1 168mm DC	1 jar			
14 168mm DC	1 X/O sub	9 HW/DP					
LENGTH: 256.40 m		WT. BELOW JARS: 8000 daN		JAR HRS: 168.2		JAR SERIAL #: 10708	
WT. ON BIT: 16000 daN		ROTARY RPM: 60		STRING WT.: 107000 daN			
DRILL PIPE O.D.: 127		THREAD: 114 IF		DRILL COLLARS O.D.: 168		THREAD: 127mmH-90	
						NO. IN HOLE: 18	

TOTAL ROTATING HOURS: 699.75

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	ROTTLES mm			DEPTH IN	DEPTH OUT	WTR PER HOUR	WTR PER HOUR	HOURS ON BIT	BIT	CUTTING STRUCT	REMARKS
					1	2	3								
2B	215.9	SEC	680230	GS84F	7.9	7.9	7.9	2083	2395	312	4.0	77.25	12-16	60	7 8 BT A F 7 RG Log
3B	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395	2571	176	3.0	57.75	16-17	60	8 8 BT A E I LT PR
4B	215.9	RBI	BP7538	C45LHG	8.7	8.7	8.7	2571		89	3.0	29.75	16-17	55	

LAST PIPE TALLY: 2396.70					BOARD: 2395.70					CORRECTION: YES ☐ NO ☒											
Viscosity Sec/L	DENSITY lb/OUT	pH	WL cu/Metric	FE mm	PV/VP	GELS O/YE	Tot. Sol kg/m3	Diss. Sol kg/m3	SAND kg/m3	SILT/CLAY kg/m3	LOH kg/m3	OE %	Cl ppm	Ca ppm	ALKALINITY MPH	°C IN/OUT					
62	1160/1160	10.2	8.0	0.5	25/ 13.5	5.0/12.	100.00		20.00	90		8000.	1400	40	0.9 2.0	61/ 63					
/					/											/					
CENTRIFUGE					DEBITER			DESANDER				DESANDER			TOTAL MUD DUMPED						
24 HR IN		kg/m3	OUT	kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	m3				

PUMP

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINE mm	STROKE mm	SPM	m ³ /MIN	MODEL	LINE mm	STROKE mm	SPM	m ³ /MIN		MPa	DP m ³ /MIN	DC m ³ /MIN	VELOCITY m/sec
Emeco	140	254	80	0.94	Emeco	140	254			6500	39.3	65.1	87.5	77.70

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES	
		AZIMUTH	DRILLING	11.50	SURVEYING		Barite
1.50 ° @	2648.00 m	44.00	RIG SERV	0.50	SAFETY HTG	0.25	Sod Sulf 5
• @	m		TRIPPING	5.75	MNDL TOOLS		Soda Ash
• @	m		CIRCULATE	6.00	PRESS TEST		Bldg.rent 1
• @	m		CEMENTING		REPAIRS		Chemcide 2
• @	m		CLN TO BTH		BOP DRILL		Drispec re 1
• @	m		SLIP & CUT		LOGGING		Starpec 2
• @	m		REAMING				Gel Mat 20
• @	m						Lignite 2
• @	m						Corinox 5
• @	m						Kelzan 1
• @	m						Caustic 2
			TOTAL HOURS: 24.00				

MUD COMMENTS: Running barite recovery sys. while drig.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.0800:00 hours. Drilled 215.9mm hole, with rig services, safety meetings and circulating samples from 2629-2660mKB. Made 2 wiper trips to 2063mKB. Monitored bottoms up gas. Wiper tripping to 24:00 hours 1999.01.08.

Note(1)

23X trip gas peak after 1st wiper trip, 8X after 2nd wiper

trip. Raised density to 1160kg/m3 after 2nd wiper trip.

Hole good on wiper trips, flow checks good.

Note(2)

Held daily meeting with both crews. Topics: (A) Housekeeping.

(B) Tripping pinch points.

SUPERVISOR: D. Solberg/R. Rogerson	PHONE #: (600) 700-2629	CALLING CARD #:
------------------------------------	-------------------------	-----------------

CD 66/11

DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD.	DATE: Jan 09/99
WELL NAME: Cdn Forest at al Flett Rapids	DAY #: 50
LOCATION: 1-61-60-80-123-15	REPORT #: 43
CONTRACTOR: HABORS Rig#24	TIME: 00:00
REPORTED BY: Adrian Pristolnicu	DEPTH: 2660 m
Victor Matusovsky	PROGRESS: 35 m
OPERATION : Drilling	1% = 100m = 10000ppm

BACKGROUND GAS:

DEPTH (m) INTERVAL	TOTAL (%) HYDROCARB	C1 (%)	C2 (%)	C3 (%)	C4+C5 (%)	CO2 (%)
2625 - 2660	0.23 - 0.06	0.23 - 0.06	tr	0	0	.03

PRODUCED GAS: (Trip Gas, Connection Gas, etc.)

TYPE	DEPTH (m)	TOTAL (%)	BACKGROUND (%)	PUMPS OFF TIME
Connection Gas	2631	0.26	0.12	3min
Pump-off Gas	2643	0.26	0.11	4min
Pump-off Gas	2649	0.68	0.06	5min

GAS SHOWS: (max/loc. background)

DEPTH (m) INTERVAL	MAXIMUM HYDR. (%)	C1 (%)	C2 (%)	C3 (%)	IC4+MC4 (%)	ICS+MC5 (%)

COMMENTS -

VERSION INFORMATION

VER. 2.0: CWLS LOG ASCII STANDARD -VERSION 2.0
 AP. NO: ONE LINE PER DEPTH STEP

NOTE: This file conforms to the LAS 2.0 standard and may contain entries in the header and data sections that are not compatible with previous versions of LAS software.

WELL INFORMATION BLOCK

WEM.UNIT	DATA	DESCRIPTION OF MNEMONIC
TRT.M	2625.0000	:START DEPTH
TOP.M	2660.0000	:STOP DEPTH
TEP.M	0.0000	:STEP LENGTH
ULL.	-999.2500	:NULL VALUE
OMP.	Canadian Forest Ltd.	:COMPANY
ELL.	Cdn Fr et al Flett Rapids	:WELL
LD .	<NOT AVAILABLE>	:FIELD
OC .	I-61-60-50-123-15	:LOCATION
RVC.		:SERVICE COMPANY
ATE.	07-JAN-1999	:LOG DATE
WI .	<NOT AVAILABLE>	:UNIQUE WELL ID

CURVE INFORMATION

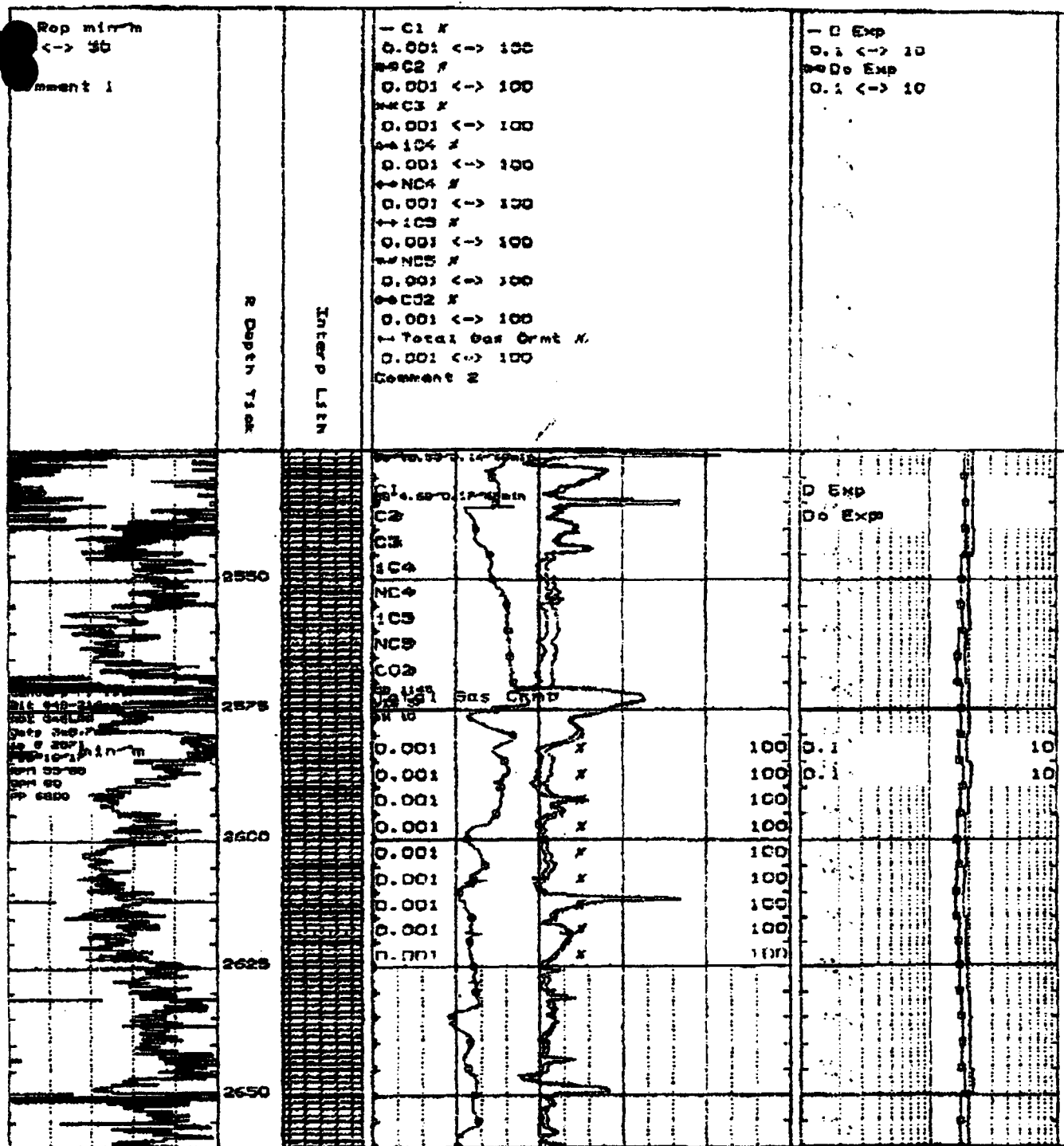
WEM.UNIT	API CODE	CURVE DESCRIPTION
MEA.M		: 1 BL Hole Depth
X .		: 2 DO D Exp
KC .		: 3 DP Dc Exp

OTHER DATA

roduced by QLOG (c)1991-1999 Datalog Technology Inc.

LOG/LAS \$Revision: 2.5 \$

DMEA	DX	DXC
2625.000	1.9400	1.6900
2630.000	1.9600	1.7000
2635.000	2.0100	1.7500
2640.000	2.0500	1.7800
2645.000	2.0100	1.7500
2650.000	2.1500	1.8700
2655.000	1.9700	1.7200
2660.000	1.8912	1.6415



100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

Hydrocarbon zone

Gas zone

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000

100 200 300 400 500 6

DYNAMIC DRILLING FLUIDS
INTERNATIONAL LTD.

DRILLING MUD REPORT

Date 99-01-09 Check No. 59

OPERATOR: MURRAY ROGERSON		CONTRACTOR: WAZOES DRIG		RIG NO.: 24	
REPORT FOR: MURRAY ROGERSON		REPORT FOR: RAY CHANDONNET		SPUD DATE: 98-11-13	
WELL NAME: CDW Forest et al Flett Kanna J-61		LOCATION: Kanna J-61		DAYS FROM SPUD: 57	
BIT DATA		DRILL STRING		CASING	
SIZE (mm) 215.9 TYPE: RB1		D.P. SIZE 127 mm LENGTH 1404 m		SUM: 229 mm AT 568 m IN HOLE: 93	
DEPTH IN: 2571 m R.P.M. 5640		mm LENGTH m		IN: 24.5 mm AT 2068 m IN TANKS: 87	
W.O.B. (daN) (FORCE) 1617000		D.C. SIZE 168 mm LENGTH 144 m		INT: mm AT m TOTAL: 181	
NOZZLE SIZE (mm) 31x7		388 mm LENGTH 256 m		LINER: mm AT m IN STORAGE:	
PUMP AND CIRCULATION DATA					
PUMP	#1	#2	ANNULAR VELOCITY	SOLIDS CONTROL	EQUIPMENT
MODEL	F-1000		D.P. & HOLE 39 m/min		UNDERFLOW
LINER (mm)	140		D.P. & CSG 36 m/min		UNDERFLOW
STROKE (mm)	254		D.C. 64 mm 647 m/min		UNDERFLOW
STROKE/min	80		D.C. 636 mm 564 m/min		UNDERFLOW
L/STROKE	11.68		CIRCULATION TIMES	CURRENT OPERATION AND REMARKS:	
L/min	934		ROTTOMS UP: (min) 72	WIAK TRIP 2660-2060m	
m/min	734		MUD CYCLE 193	NO. FIL. P.O.D.H TO LOG.	
STANDPIPE PRESSURE $\square$ (kPa) $\square$ (MPa)					
SAMPLE FROM FLOWLINE & TANK		MUD PROPERTIES		RECOMMENDED TREATMENT	
FLOWLINE TEMP TIME		25.00		WHILE CIRCULATING	
DEPTH (m)		2660		MAINTAIN	
FUNNEL VISCOSITY (cSt) at $^{\circ}\text{C}$		62		① pH AT 10.5 WITH CHARGE	
DENSITY (kg/m ³)		1160		② FLUID LOSS AT 6.8 cc/30 min	
PLASTIC VISCOSITY (mPa.s) at $^{\circ}\text{C}$		25		WITH DRIPPING/STRAIGHT LIGNING	
YIELD POINT (Pa)		12.5		1:2:2	
GEL STRENGTH (Pa) 10s/10 min		5/12		③ VISCOSITY AT 60-65 sec/1 min	
pH (STRIP & METER)		10.1		WITH GEL/KELZIM IN A	
FILTRATE (cm ³ /min at 700 kPa)		50		20:1 RATIO.	
CAKE THICKNESS (mm)		5		④ WEIGHT AT 1160 kg/m ³ WITH	
SAND CONTENT (Vol. Fraction) @ SAND		0.02		LAI CONTRIFUGO	
SOLIDS CONTENT (Vol. Fraction) @ SOLIDS		10		(L) BAKING IF REQUIRED	
M.S.T. (Bent. Equiv.) (kg/m ³)		90		THANKS E.L.	
OIL CONTENT (Vol. Fraction) @ 300		7.62			
ALKALINITY FILTRATE (pH) @ 25		9.50			
CALCIUM (mg/L)		40			
CHLORIDES (mg/L)		1400			
POLYMER (kg/m ³)		1.4			
K ⁺ Ion		2000			
SULFATE		300			
WAREHOUSE					
F.T. N-1500 - BUREAU - 275-4222					
MUD ENGINEER					
ED SOUTERARW - 275-4623					

DYNAMIC DRILLING FLUIDS INTERNATIONAL LTD. shall not be liable for any damage, loss or injury to persons or property arising from the use of the information contained herein.

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 09, 1999
REPORT TO: Gary Winter

WELL REPORT NO. 57
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-600-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS I-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 57

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2660 (2622.2 TVD) m K.B.

FORMATION: Camsell Fm.

24 HOUR PROGRESS: 31 m

AVERAGE DRILLING RATE: 2.5 m/hr.

00:00 HOUR STATUS: Circulate & condition for logging.

05:00 HOUR DEPTH: 2660 (2622.2 TVD) m

FORMATION: Camsell Fm.

CURRENT DRILLING RATE: NA.

05:00 HOUR STATUS: POOH for logging.

WEATHER: Clear, calm, with a daytime High of - 23 degrees C., & an overnight Low of - 27 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Drilled 216mm hole to FTD 2660 m @ 11:50 hrs (99/01/08). Circulated & conditioned hole. Wiper tripped, Circulated & conditioned hole (twice). POOH.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: POOH Log / Schlumberger.

SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES: Density: 1145 kg/m³ Viscosity: 61 cP Water Loss: 8.2 cm³/30 min
pH: 10.2 F.C.: .5 mm Temp: 63 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2069.5	2037.5	- 1775.0	+ 199
Intermediate Casing	- 1975	2067.7	2035.3	- 1772.8	+ 202
NAHANNI DOL.		2208.6	2172.6	- 1910.3	
HEADLESS	- 2148	2239	2202.6	- 1940.1	+ 208
LANDRY LST.		2290.7	2253.9	- 1991.4	
ARNICA	- 2182	2310	2273.1	- 2010.6	+ 171
L. DEV. SOMBRE	- 2425	2448	2410.6	- 2148.1	+ 277
CAMSELL	- 2460	2486	2448.5	- 2185.0	+ 275
FTD		2660	2622.2	- 2359.7	
Cumulative Well Cost To Date:		\$ 3,920,268	(99/01/09)		
		\$ 3,886,113	(99/01/08)		

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 10, 1999
REPORT TO: Gary Winter

WELL REPORT NO. 58
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-600-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS 1-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 58

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2660 (2622.2 TVD) m K.B.

FORMATION: Camsell Fm.

24 HOUR PROGRESS: 0 m

AVERAGE DRILLING RATE: NA

00:00 HOUR STATUS: Clean out trip - Circulate & condition for logging.

05:00 HOUR DEPTH: 2660 (2622.2 TVD) m

FORMATION: Camsell Fm.

CURRENT DRILLING RATE: NA.

05:00 HOUR STATUS: POOH for logging (after clean out).

WEATHER: Snow flurries, with a daytime High of - 23 degrees C. , & an overnight Low of - 24 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: POOH. RIH / Schlumberger DLL / CNL log, bridged at 2510m (temporarily stuck), pulled free, POOH / damaged calliper (left parts in hole). RIH / pipe for clean out. Condition hole.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: Condition hole. POOH Log / Schlumberger.

SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES: Density: 1160 kg/m³ Viscosity: 85 s/L Water Loss: 7.4 cm³/30 min
pH: 10.0 F.C.: .5 mm Temp: 52 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2069.5	2037.5	- 1775.0	+199
Intermediate Casing	- 1975	2067.7	2035.3	- 1772.8	+ 202
NAHANNI DOL.		2208.6	2172.6	- 1910.3	
HEADLESS	- 2148	2239	2202.6	- 1940.1	+ 208
LANDRY LST.		2290.7	2253.9	- 1991.4	
ARNICA	- 2182	2310	2273.1	- 2010.6	+ 171
L. DEV. SOMBRE	- 2425	2448	2410.6	- 2148.1	+ 277
CAMSELL	- 2460	2486	2448.5	- 2185.0	+ 275
FTD		2660	2622.2	- 2359.7	
Cumulative Well Cost To Date:		\$ 3,960,205	(99/01/10)		
		\$ 3,920,268	(99/01/09)		

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 11, 1999
REPORT TO: Gary Winter

WELL REPORT NO. 59
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-800-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS 1-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 59

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2660 (2622.2 TVD) m K.B.

FORMATION: Camsell Fm.

24 HOUR PROGRESS: 0 m

AVERAGE DRILLING RATE: NA

00:00 HOUR STATUS: Rig out Schlumberger wireline.

05:00 HOUR DEPTH: 2660 (2622.2 TVD) m

FORMATION: Camsell Fm.

CURRENT DRILLING RATE: NA.

05:00 HOUR STATUS: Rig up MDT.

WEATHER: Snow, calm, with a daytime High of - 20 degrees C. , & an overnight Low of - 31 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Condition & circulate. POOH. LOG with Schlumberger DLL / CNL - DSI / GR, FMI / GR (problem with signal first attempt). Rig out Schlumberger wireline.

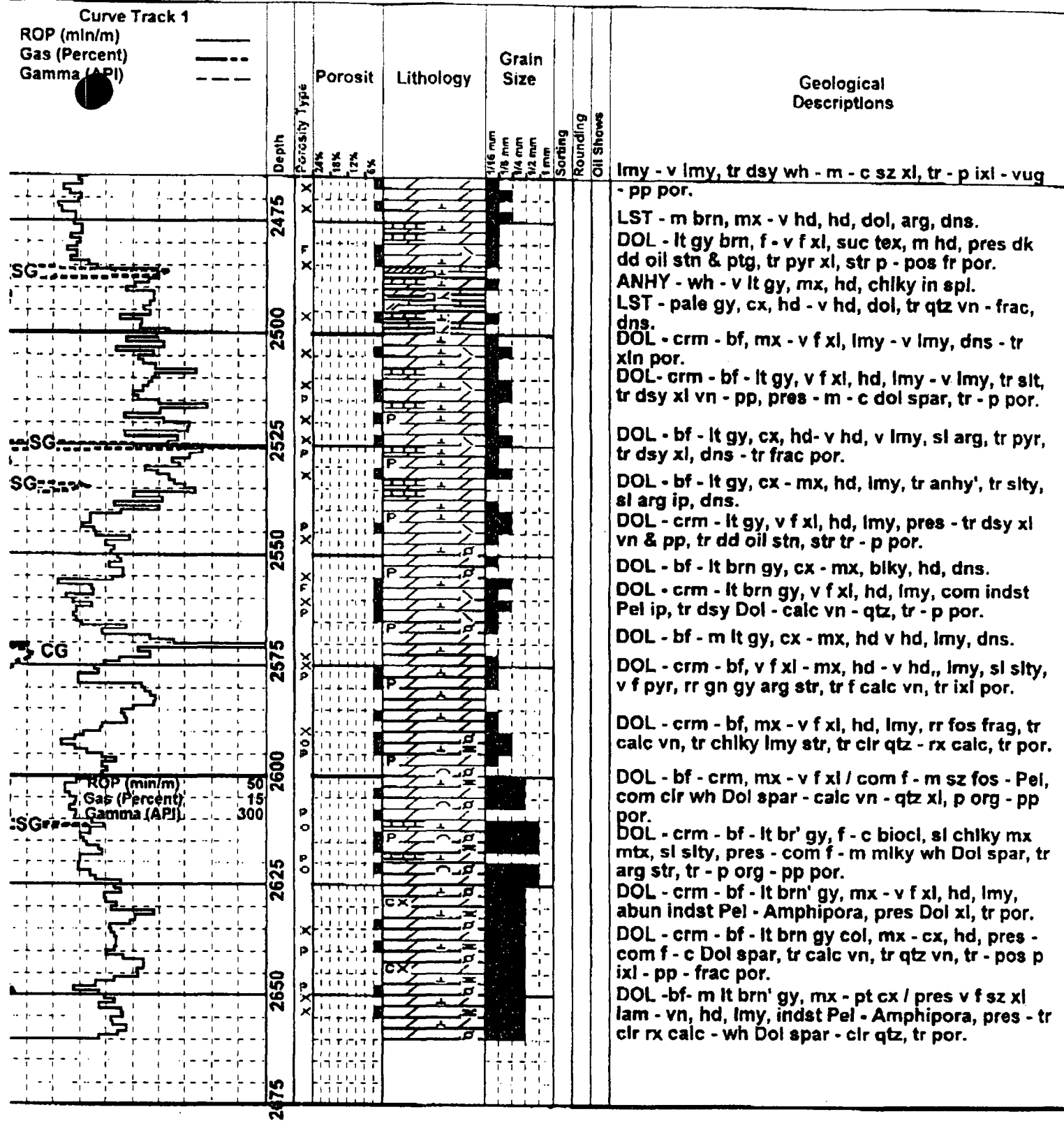
FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: Pick up & run in MDT / Schlumberger.

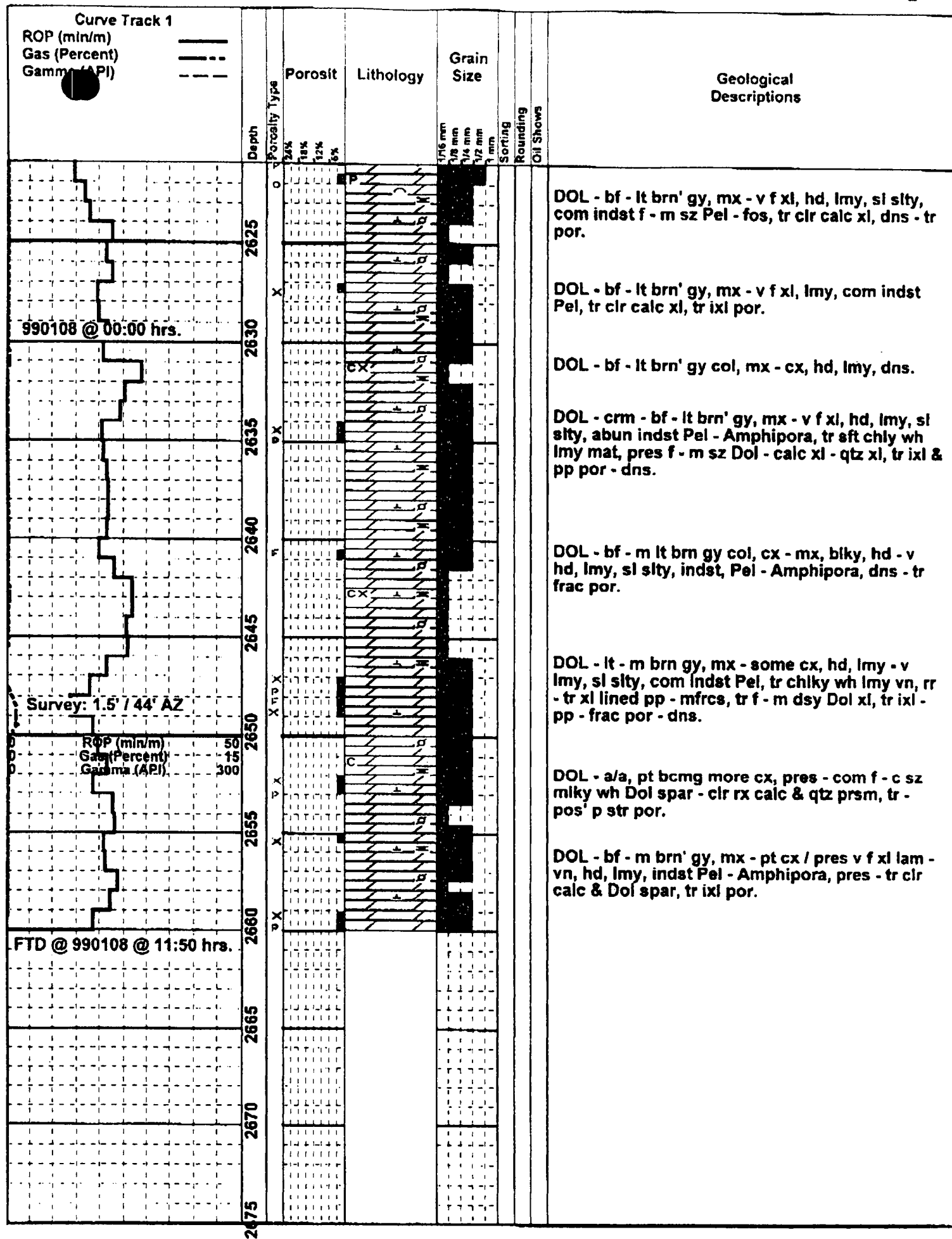
SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES:	Density: 1160 kg/m ³	Viscosity: 85 s/L	Water Loss: 7.4 cm ³ /30 min
	pH: 10.0	F.C.: .5 mm	Temp: 52 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2069.5	2037.5	- 1775.0	+ 199
Intermediate Casing	- 1975	2067.7	2035.3	- 1772.8	+ 202
NAHANNI DOL.		2208.6	2172.6	- 1910.3	
HEADLESS	- 2148	2239	2202.6	- 1940.1	+ 208
LANDRY LST.		2290.7	2253.9	- 1991.4	
ARNICA	- 2182	2310	2273.1	- 2010.6	+ 171
L. DEV. SOMBRE	- 2425	2448	2410.6	- 2148.1	+ 277
CAMSELL	- 2460	2486	2448.5	- 2185.0	+ 275
FTD		2660	2622.2	- 2359.7	
Cumulative Well Cost To Date:	\$ 3,997,417	(99/01/11)			
	\$ 3,960,205	(99/01/10)			





#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	SubSea Meters	North Meters	East Meters	Section Meters	Dogleg /30m	BldRate /30m	Tmrate /30m	Comment
106.00	2359.00	5.25	20.00	2321.89	-2059.40	249.48	-41.40	252.64	0.98	0.00	10.77	
107.00	2399.00	5.00	41.00	2361.73	-2099.24	252.52	-39.63	255.24	1.41	0.19	15.75	
108.00	2436.00	4.50	40.00	2398.60	-2136.11	254.85	-37.64	257.11	0.41	0.41	0.81	
109.00	2475.00	4.00	40.00	2437.50	-2175.01	257.06	-35.78	258.88	0.38	0.38	0.00	
110.00	2513.00	4.00	40.00	2475.41	-2212.92	259.09	-34.08	260.52	0.00	0.00	0.00	
111.00	2522.00	3.50	47.00	2484.39	-2221.90	259.52	-33.68	260.85	2.26	1.67	23.33	
112.00	2561.00	2.75	46.00	2523.33	-2260.84	260.98	-32.13	261.96	0.58	0.58	0.77	
113.00	2600.00	2.75	28.00	2562.28	-2299.79	262.46	-31.02	263.17	0.66	0.00	13.85	
114.00	2648.00	1.50	44.00	2610.25	-2347.76	263.93	-30.04	264.41	0.86	0.78	10.00	
Ext	2660.00	1.19	48.00	2622.25	-2359.76	264.12	-29.84	264.56	0.82	0.78	10.00	

DATALOG MORNINE REPORT

OPERATOR: CANADIAN FOREST LTD. DATE: Jan 08/99
WELL NAME: Cdn Forest et al Flatt Rapids DAY #: 49
LOCATION: 1-61-60-50-123-15 REPORT #: 42
CONTRACTOR: HADORS Rig#24 TIME: 00:00
REPORTED BY: Adrian Pistolnicu DEPTH: 2625 m
Victor Matusovsky PROGRESS: 54 m
OPERATION : Drilling 14=100m=10000ppm

BACKGROUND GAS:

DEPTH (m) INTERVAL	TOTAL(%) HYDROCARB	C1 (%)	C2 (%)	C3 (%)	C4+C5 (%)	CO2 (%)
2571 - 2625	0.89 - 0.09	0.89 -0.09	tr	0	0	.03

PRODUCED GAS: (Trip Gas, Connection Gas, etc.)

TYPE	DEPTH (m)	(%)	(%)	TIME
		TOTAL	BACKGROUND	PUMPS OFF
Trip Gas	2571	19.75	/ 0.85	/ 500min
Recircled TG	2573	1.81	/ 0.78	/ --min
Connection Gas	2592	0.36	/ 0.11	/ 10min
Survey Gas	2611	4.93	/ 0.14	/ 45min

GAS SHOWS: (max/loc. background)

DEPTH (m) INTERVAL	MAXIMUM HYDR. (%)	C1 (%)	C2 (%)	C3 (%)	IC4+HC4 (%)	IC5+HC5 (%)

:COMMENTS -

VERSION INFORMATION

ERS. 2.0: CWL2 LOG ASCII STANDARD -VERSION 2.0
LAP. NO: ONE LINE PER DEPTH STEP

NOTE: This file conforms to the LAS 2.0 standard and may contain entries in the header and data sections that are not compatible with previous versions of LAS software.

WELL INFORMATION BLOCK

WELL UNIT	DATA	DESCRIPTION OF WELL UNIT
TRT.M	2570.0000	:START DEPTH
TOP.M	2625.0000	:STOP DEPTH
TRP.M	0.0000	:STEP LENGTH
ULL.	-999.2500	:NULL VALUE
OMP.	Canadian Forest Ltd.	:COMPANY
ELL.	Cdn Fr et al Flett Rapids	:WELL
LD.	<NOT AVAILABLE>	:FIELD
OC.	I-61-60-50-123-15	:LOCATION
EVC.		:SERVICE COMPANY
ATE.	04-JAN-1999	:LOG DATE
WI.	<NOT AVAILABLE>	:UNIQUE WELL ID

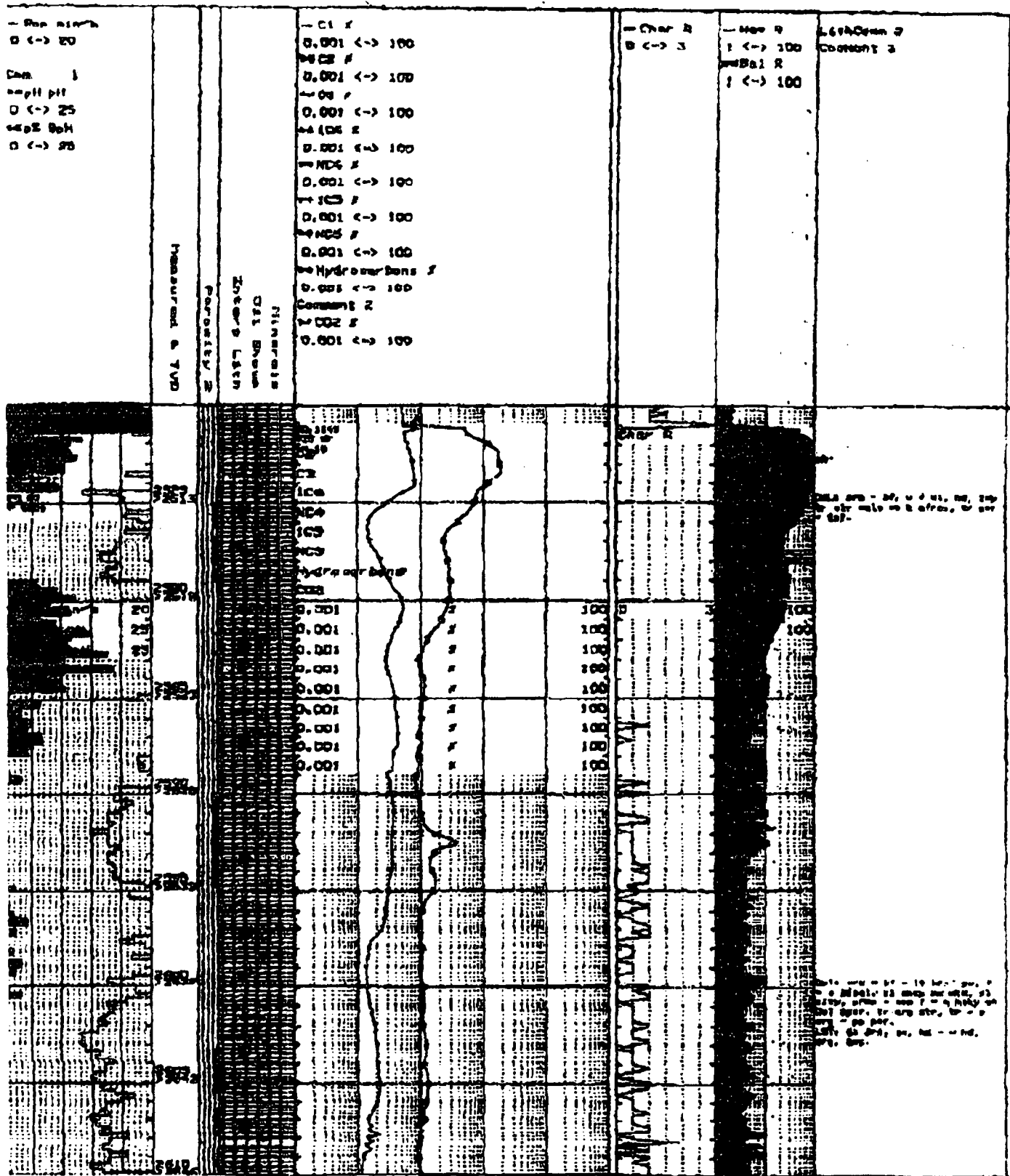
CURVE INFORMATION

WELL UNIT	API CODE	CURVE DESCRIPTION
REA.M	:	1 BL Hole Depth
X.	:	2 DO D Exp
XC.	:	3 DP Dc Exp

OTHER DATA

Reduced by QLOG (c)1991-1999 Datalog Technology Inc.
LOG/LAS \$Revision: 2.5 \$

DREA	DX	DXC
2570.000	1.9000	1.6500
2575.000	2.0600	1.8000
2580.000	2.0300	1.7700
2585.000	1.9700	1.7200
2590.000	2.0900	1.8200
2595.000	2.0100	1.7500
2600.000	1.8800	1.6300
2605.000	1.9400	1.6900
2610.000	1.8500	1.6200
2615.000	1.8400	1.6000
2620.000	1.9400	1.6900
2625.000	1.9400	1.6900



[illegible]

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 08, 1999
REPORT TO: Gary Winter

WELL REPORT NO. 56
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-600-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS I-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 56

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2629 (2591.3 TVD) m K.B.

FORMATION: Camsell Fm.

24 HOUR PROGRESS: 58 m

AVERAGE DRILLING RATE: 3.0 m/hr.

00:00 HOUR STATUS: Drilling 216mm hole.

05:00 HOUR DEPTH: 2641 (2603.2 TVD) m

FORMATION: Camsell Fm.

CURRENT DRILLING RATE: 2.75 m/hr.

05:00 HOUR STATUS: Drilling 216mm hole.

WEATHER: Clear, calm, with a daytime High of - 29 degrees C. , & an overnight Low of - 33 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Drilled 216mm hole.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: Drill 216mm hole. Condition hole for logging. POOH. Log / Schlumberger.

SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES:

Density: 1140 kg/m3
pH: 10.3

Viscosity: 57 s/L
F.C.: .5 mm

Water Loss: 8.6 cm3/30 min
Temp: 63 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2069.5	2037.5	- 1775.0	+199
Intermediate Casing	- 1975	2067.7	2035.3	- 1772.8	+ 202
NAHANNI DOL.		2208.6	2172.6	- 1910.3	
HEADLESS	- 2148	2239	2202.6	- 1940.1	+ 208
LANDRY LST.		2290.7	2253.9	- 1991.4	
ARNICA	- 2182	2310	2273.1	- 2010.6	+ 171
L. DEV. SOMBRE	- 2425	2448	2410.6	- 2148.1	+ 277
CAMSELL	- 2460	2486	2448.5	- 2185.0	+ 275
ROOT RIVER	- 2560				
THRUST FAULT	- 2624				
SIL/ORD. MOUNT KINDLE	- 2690				
ORD. LITTLE DOCTOR	- 2860				
Cumulative Well Cost To Date:		\$ 3,886,113	(99/01/08)		
		\$ 3,844,082	(99/01/07)		

DATALOG MORNIN REPORT

OPERATOR: CANADIAN FOREST LTD.
 WELL NAME: Cdn Forest et al Flett Rapids
 LOCATION: 1-61-60-50-123-15
 CONTRACTOR: NABORS Rig #24
 REPORTED BY : Adrian Pristolnicu & Victor Matusovsky
 OPERATION: Drilling

DATE: Jan 08/99
 DAY # 49
 REPORT # 42
 TIME: 00:00
 DEPTH: 2625 m
 PROGRESS: 54m

BACKGROUND GAS:

DEPTH - INTERVAL (m)	TOTAL % HYDRO.	C1 (%)	C2 (%)	C3 (%)	C4 + C5 (%)	CO2 (%)
2571 - 2625	0.89 - 0.09	0.89 - 0.09	tr	0	0	0.02

PRODUCED GAS: (Trip Gas, Connection Gas, etc...) (%)

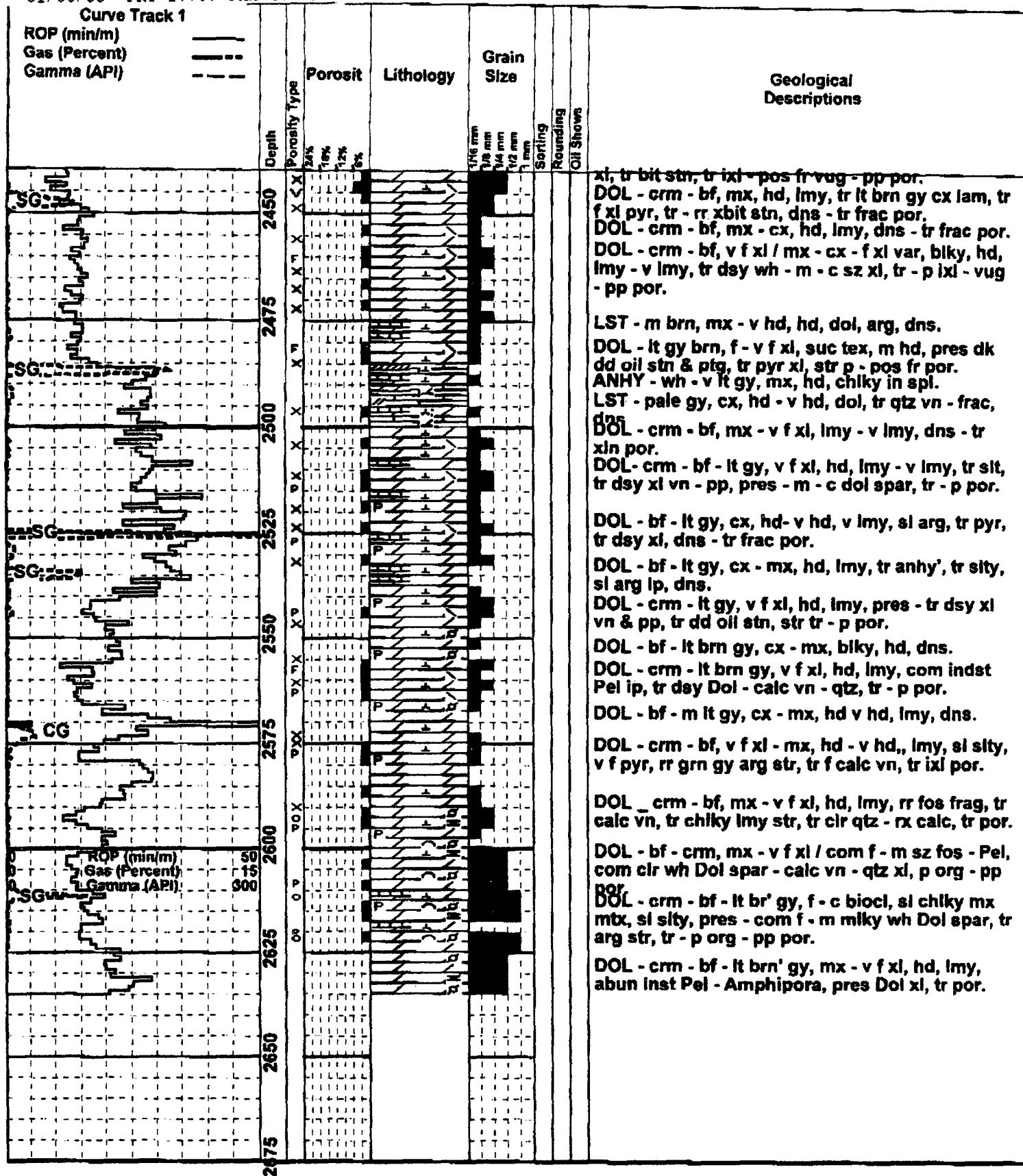
TYPE	Depth (m)	Total Gas / Backgr. / Time pumps off		
Trip Gas	2571	19.75	0.85	500 min
Recicled Trip Gas	2573	1.81	0.78	0 min
Connection Gas	2592	0.36	0.11	10 min
Survey Gas	2611	4.93	0.14	46 min

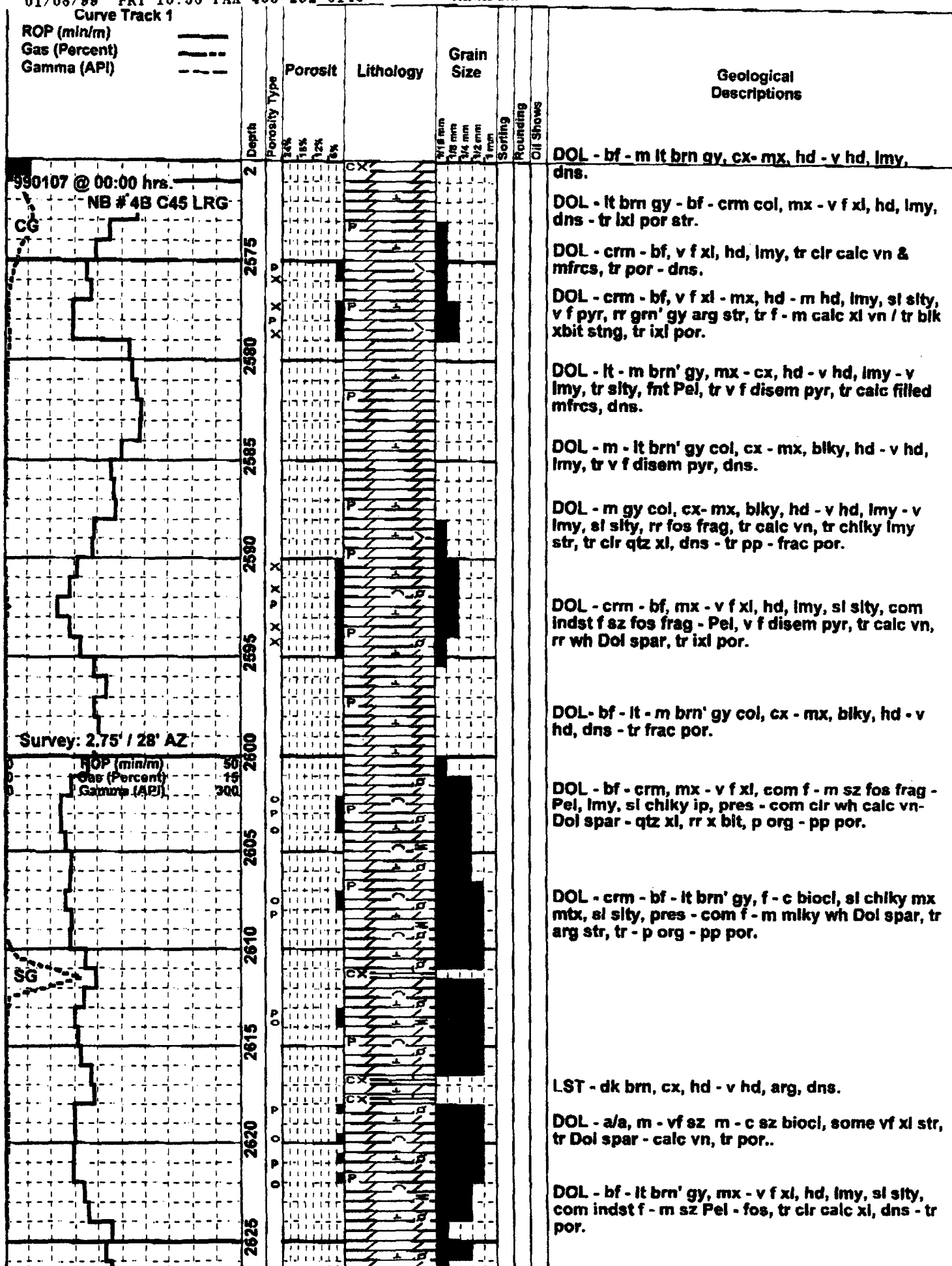
GAS SHOWS: (max/loc.background)

DEPTH - INTERVAL (m)	TOTAL (%) HYDRO.	C1 (%)	C2 (%)	C3 (%)	IC4 + NC4 (%)	IC5 + NC5 (%)

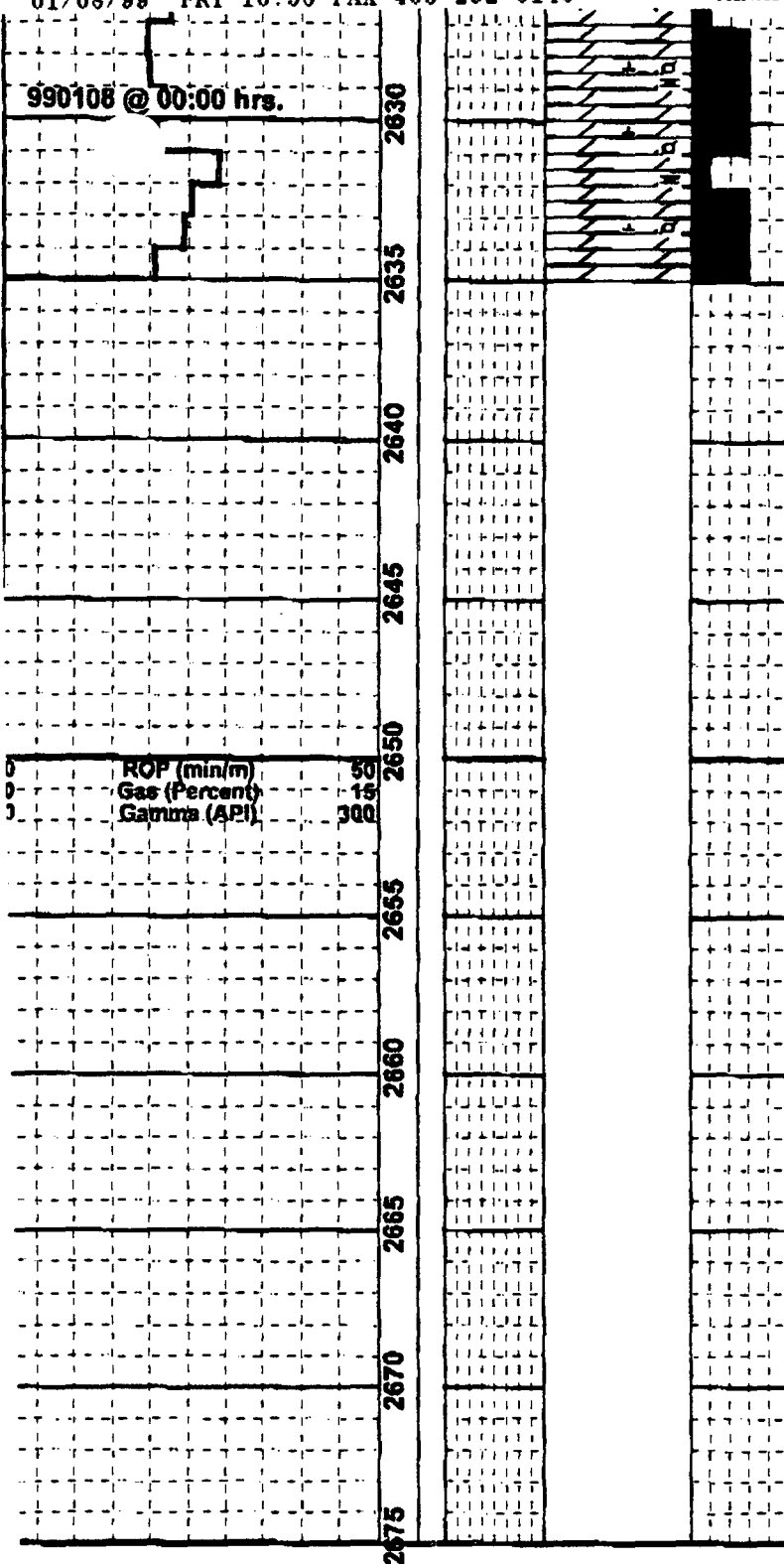
COMMENTS :

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	SubSea Meters	North Meters	East Meters	Section Meters	Dogleg /30m	BldRate /30m	Tnnrate /30m	Comment
99.00	2091.00	15.50	343.00	2057.79	-1795.30	207.09	-36.32	210.11	2.73	2.73	0.00	
100.00	2130.00	13.10	347.00	2095.58	-1833.09	216.38	-38.84	219.72	2.00	1.85	3.08	
101.00	2160.00	12.00	349.00	2124.87	-1862.38	222.75	-40.20	226.24	1.18	1.10	2.00	
102.00	2207.00	9.75	353.00	2171.02	-1908.53	231.50	-41.62	235.09	1.51	1.44	2.55	
103.00	2246.00	7.88	357.00	2209.56	-1947.07	237.45	-42.16	241.02	1.52	1.44	3.08	
104.00	2284.00	6.75	359.00	2247.25	-1984.76	242.28	-42.33	245.79	0.91	0.89	1.58	
105.00	2320.00	5.25	6.00	2283.05	-2020.56	246.03	-42.20	249.43	1.39	1.25	5.83	
106.00	2359.00	5.25	20.00	2321.89	-2059.40	249.48	-41.40	252.64	0.98	0.00	10.77	
107.00	2399.00	5.00	41.00	2361.73	-2099.24	252.52	-39.63	255.24	1.41	0.19	15.75	
108.00	2436.00	4.50	40.00	2398.60	-2136.11	254.85	-37.64	257.11	0.41	0.41	0.81	
109.00	2475.00	4.00	40.00	2437.50	-2175.01	257.06	-35.78	258.88	0.38	0.38	0.00	
110.00	2513.00	4.00	40.00	2475.41	-2212.92	259.09	-34.08	260.52	0.00	0.00	0.00	
111.00	2522.00	3.50	47.00	2484.39	-2221.90	259.52	-33.68	260.85	2.26	1.67	23.33	
112.00	2561.00	2.75	46.00	2523.33	-2260.84	260.98	-32.13	261.96	0.58	0.58	0.77	
113.00	2600.00	2.75	28.00	2562.28	-2299.79	262.46	-31.02	263.17	0.66	0.00	13.85	
Ext	2629.00	2.75	14.62	2591.25	-2328.76	263.75	-30.52	264.33	0.66	0.00	13.84	
Ext	2641.00	2.75	9.08	2603.24	-2340.75	264.31	-30.40	264.85	0.66	0.00	13.85	





990108 @ 00:00 hrs.



DOL - bf - lt brn' gy, mx - v f xl, lmy, com indist
Pel, tr clr calc xl, tr ixl por.

DOL - crm - bf - lt brn' gy, mx - v f xl, hd, lmy, sl
sity, abund indst Pel - Amphipora, pres f - m sz
Dol - calc xl - qtz xl, tr ixl - pp por - dns.

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

L NAME: CON FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0	DATE: 99/01/07
I.: 3001616050123150		CPA NO.:	DAY: 55
OFFICE SUPERVISOR: Micky Sutherland		LICENCE NO.: WID#1851	
CONTRACTOR: Nabors Drig.		KB: 262.5 m KB-GL: 7.5 m	SPUD DATE: 98/11/13 @ 12:15 hrs.
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m	RIG RELEASE: @ : hrs.
WEATHER: Clear		TEMP: -31 °C	WELL STATUS:
Midnight DEPTH: 2571.00 m		PROGRESS: 33.00 m	FORMATION:
8:00 a.m. DEPTH: 2575.00 m		8:00 a.m. OPERATION: Drilling 215.9mm hole @ 2m/hour.	FORMATION:

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 41241 CUMULATIVE COST: \$ 3844082

1 215.9mm bit 1 172mm bit/sub 1 monel DC 1 monel DC 1 shock sub
 1 R 3 1 168mm DC 1 R 3 1 168mm DC 1 jar
 14 168mm DC 1 X/O sub 9 HW/DP

LENGTH: 256.40 m WT. BELOW JARS: 8000 daN JAR HRS: 138.5 JAR SERIAL #: 10708

WT. ON BIT: 16000 daN ROTARY RPM: 60 STRING WT.: 106000 daN

DRILL PIPE O.D.: 127 THREAD: 114 IF DRILL COLLARS O.D.: 168 THREAD: 127mm-90 NO. IN HOLE: 18

TOTAL ROTATING HOURS: 670.00

BIT
T
S

BIT NO.	SIZE mm	WELL	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTR	WTR PER HOUR	HOURS ON BIT		BT		CUTTING STRUCT								REMARKS
					1	2	3	IN	OUT			DRL	RND	WT&R	SPM	I	O	D	L	S	B	O	R	
2B	215.9	SEC	680230	GSB4F	7.9	7.9	7.9	2083	2395	312	4.0	77.25		12-16	60	7	8	BT	A	F	7	RG	Log	
3B	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395	2571	176	3.0	57.75	2.50	16-17	60	8	8	BT	A	E	I	LT	PR	
4B	215.9	RBI	BP7538	C4SLRG	8.7	8.7	8.7	2571		0				-										

LAST PIPE TALLY: 2396.70

BOARD: 2395.70

CORRECTION: YES [] NO [X]

Viscosity	DENSITY	PH	Wt	PC	PV/YP	GELS	Tv. Sol	DR. Sol	SAND	SEWTON/FT	LCR	DE	G	C	ALKALINITY	°C
Sec/A	HR/OUT		oz/100lb	mm		O/W	kg/m3	kg/m3	kg/m3	kg/m3	kg/m3	%	ppm	ppm	HR1	HR2
63	1145/1145	9.7	8.0	0.5	22/ 15.0	5.0/	100.00	90.00	30.00	80		6000	1200	40	0.4	1.6
	/				/	/										
CENTRIFUGE			DEBITER			DEBITER			DEBITER			DEBITER			TOTAL MUD DUMPED	
24 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANGULAR VELOCITY		JET	
MODEL	LINE	STROKE	SPM	m3/HR	MODEL	LINE	STROKE	SPM	m3/HR		OP	DC	VELOCITY	HP
mm	mm	mm			mm	mm	mm			MPa	°/MIN	°/MIN	m/sec.	
Emeco	140	254	80	0.94	Emeco	140	254			6500	39.3	65.1	87.5	76.70

SURVEYS				TIME BREAKDOWN				MUD ADDITIVES	
AZIMUTH				DRILLING	11.50	SURVEYING	0.75	Barite	54
2.75 °	@	2561.00 m	46.00	RIG SERV	0.50	SAFETY MTG	0.50	Sod Sulf	2
•	@	m		TRIPPING	8.75	HWDL TOOLS		Soda Ash	
•	@	m		CIRCULATE	1.25	PRESS TEST		Bldg. rent	1
•	@	m		CEMENTING		REPAIRS		Chemcide	
•	@	m		CLN TO BTM		ROP DRILL		Driscap re	
•	@	m		SLIP & CUT	0.75	LOGGING		Starpac	
•	@	m		REAMING				Gel Hat	
•	@	m						Lignite	
•	@	m						Corinox	2
•	@	m						Kelzen	
•	@	m						Caustic	1
				TOTAL HOURS: 24.00					

MUD COMMENTS: Running barite recovery sys.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
 1999.01.06 @ 00:00 Hours

Drilled 215.9mm hole with circulating bottoms up, rig services, survey and safety meetings from 2538-2571mKB.
 Hoisted out bit #38. Ran in with bit #48. Slipped and cut drilling line. Broke circulation and circulated bottoms up at 951mKB. Continued to trip in hole to 24:00 hours

1999.01.06.

Note #1: Hole good on trip.

Note #2: Held daily meeting with both crews:

Topics: (a) Fire drill procedures.

(b) Slip and cut hazards.

SUPERVISOR: D. Solberg/M. Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

CD 08/97

DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD.	DATE: Jan 07/99
WELL NAME: Cdn Forest et al Flett Rapids	DAY #: 48
LOCATION: 1-61-60-50-123-15	REPORT #: 41
CONTRACTOR: NABORE Rig#24	TIME: 00:00
REPORTED BY: Adrian Pristolnicu	DEPTH: 2571 m
Victor Natusovsky	PROGRESS: 36 m
OPERATION : Drilling	10=100u=10000ppm

BACKGROUND GAS:

DEPTH (m) INTERVAL	TOTAL(%) HYDROCARB	C1 (%)	C2 (%)	C3 (%)	C4+C5 (%)	CO2 (%)
2535 - 2571	0.89 - 0.09	0.89 -0.09	tr	0	0	.03

PRODUCED GAS: (Trip Gas, Connection Gas, etc.)

TYPE	DEPTH (m)	TOTAL / BACKGROUND / PUMPS OFF	TIME
Connectio Gas	2544	0.42 / 0.14 /	3min

GAS SHOWS: (max/loc.background)

DEPTH (m) INTERVAL	MAXIMUM HYDR. (%)	C1 (%)	C2 (%)	C3 (%)	IC4+NC4 (%)	IC5+NC5 (%)

COMMENTS -

VERSION INFORMATION

VER.

2.0: CWLS LOG ASCII STANDARD -VERSION 2.0

NO: ONE LINE PER DEPTH STEP

NOTE: This file conforms to the LAS 2.0 standard and may contain entries in the header and data sections that are not compatible with previous versions of LAS software.

WELL INFORMATION BLOCK

WELL UNIT	DATA	DESCRIPTION OF MNEMONIC
TRT.M	2535.0000	:START DEPTH
TOP.M	2571.0000	:STOP DEPTH
TEP.M	0.0000	:STEP LENGTH
NULL.	-999.2500	:NULL VALUE
COMP.	Canadian Forest Ltd.	:COMPANY
WELL.	Cdn Fr et al Plett Rapids	:WELL
LD.	<NOT AVAILABLE>	:FIELD
LOC.	I-61-60-50-123-15	:LOCATION
SVC.		:SERVICE COMPANY
DATE.	05-JAN-1999	:LOG DATE
WI.	<NOT AVAILABLE>	:UNIQUE WELL ID

CURVE INFORMATION

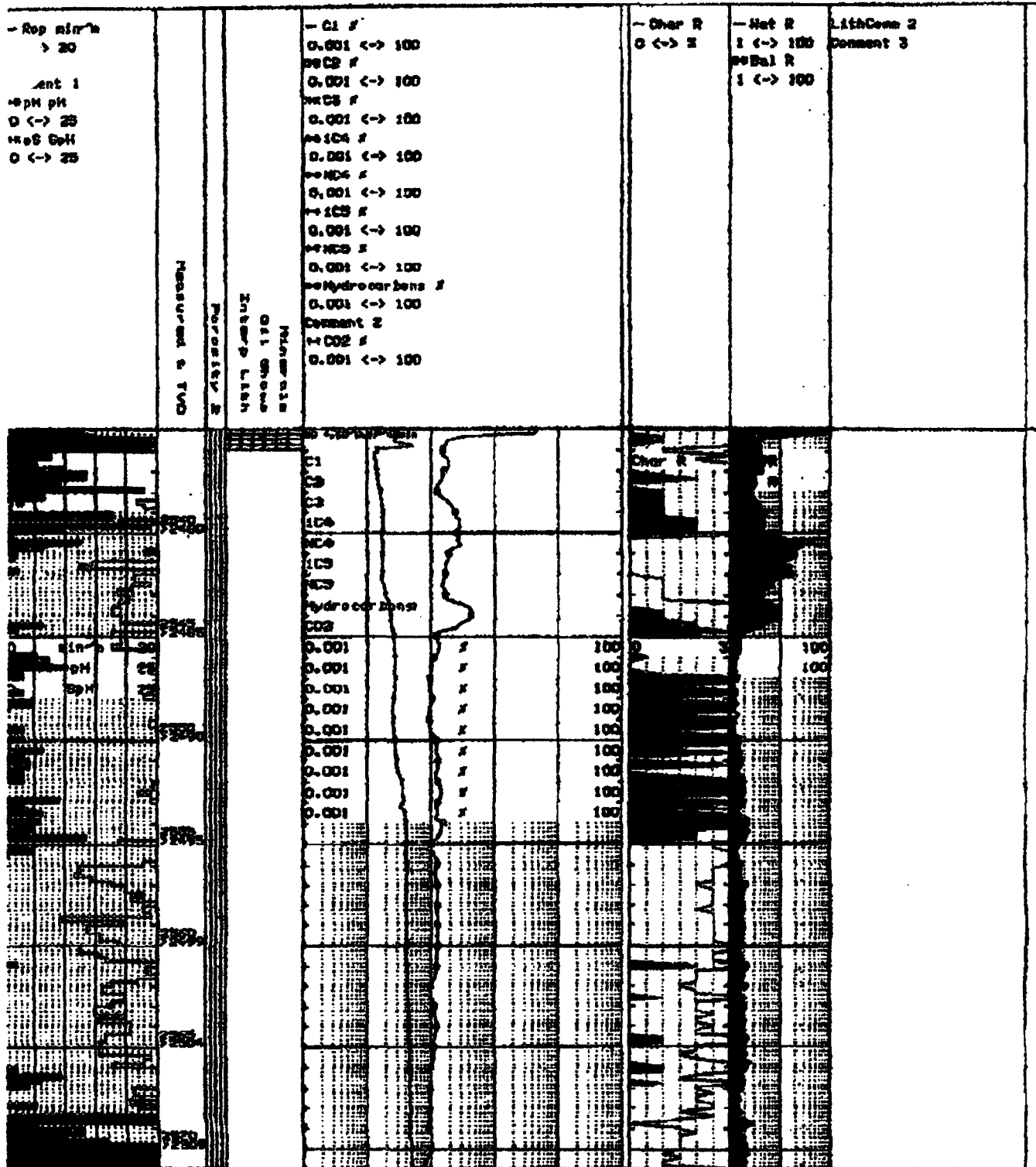
WELL UNIT	API CODE	CURVE DESCRIPTION
NEA.M		: 1 NL Hole Depth
EX.		: 2 DO D Exp
XC.		: 3 DP Dc Exp

OTHER DATA

Produced by QLOG (c)1991-1999 Datalog Technology Inc.

QLOG/LAS \$Revision: 2.5 \$

WELL UNIT	DX	DXC
2535.000	2.2100	1.9200
2540.000	2.2000	1.9100
2545.000	2.2200	1.9300
2550.000	2.0400	1.7800
2555.000	2.0200	1.7600
2560.000	2.0500	1.7900
2565.000	1.9100	1.6700
2570.000	1.9000	1.6500
2571.000	2.0600	1.8000



P.09



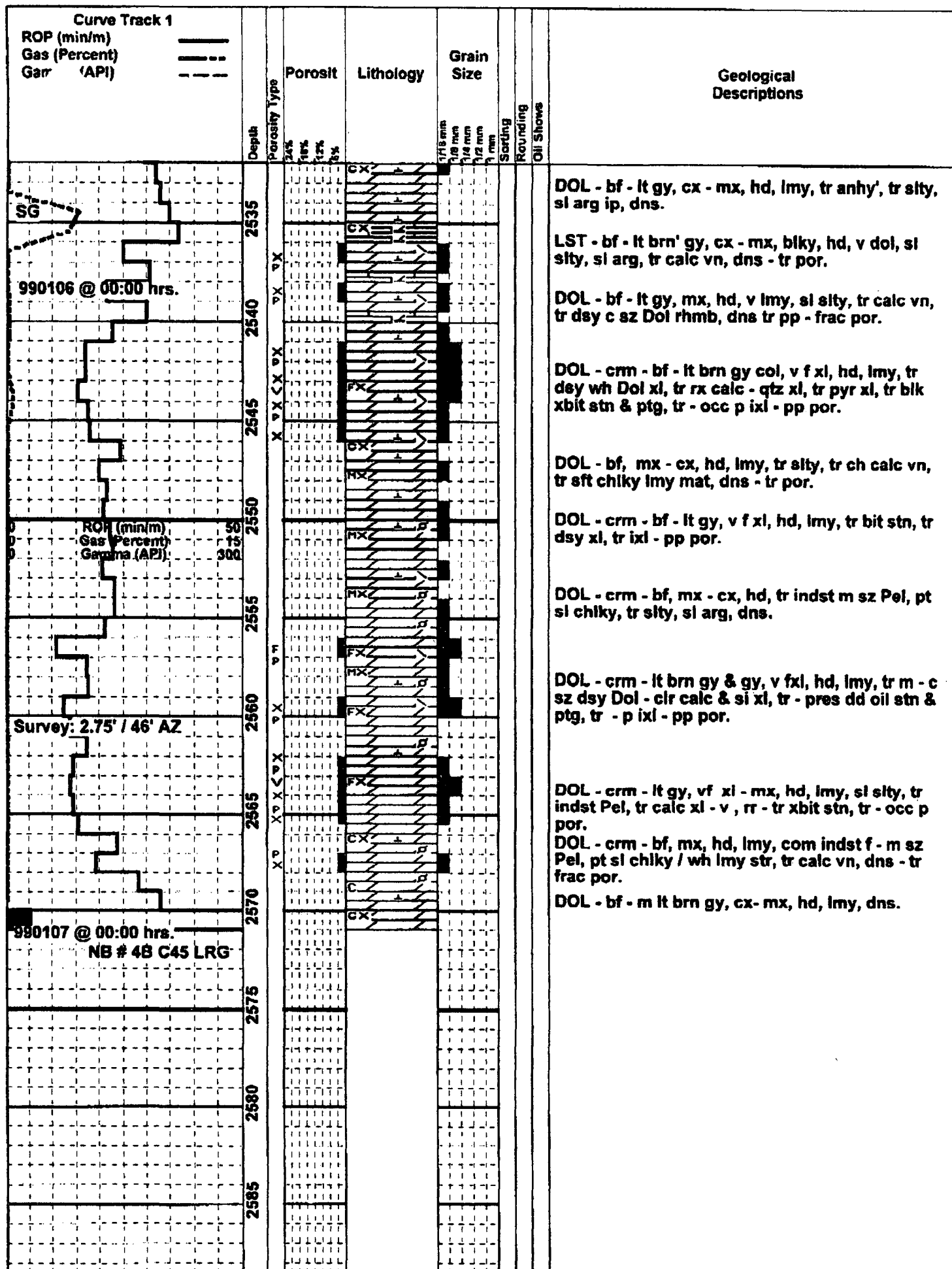
DYNAMIC DRILLING FLUIDS
INTERNATIONAL LTD.

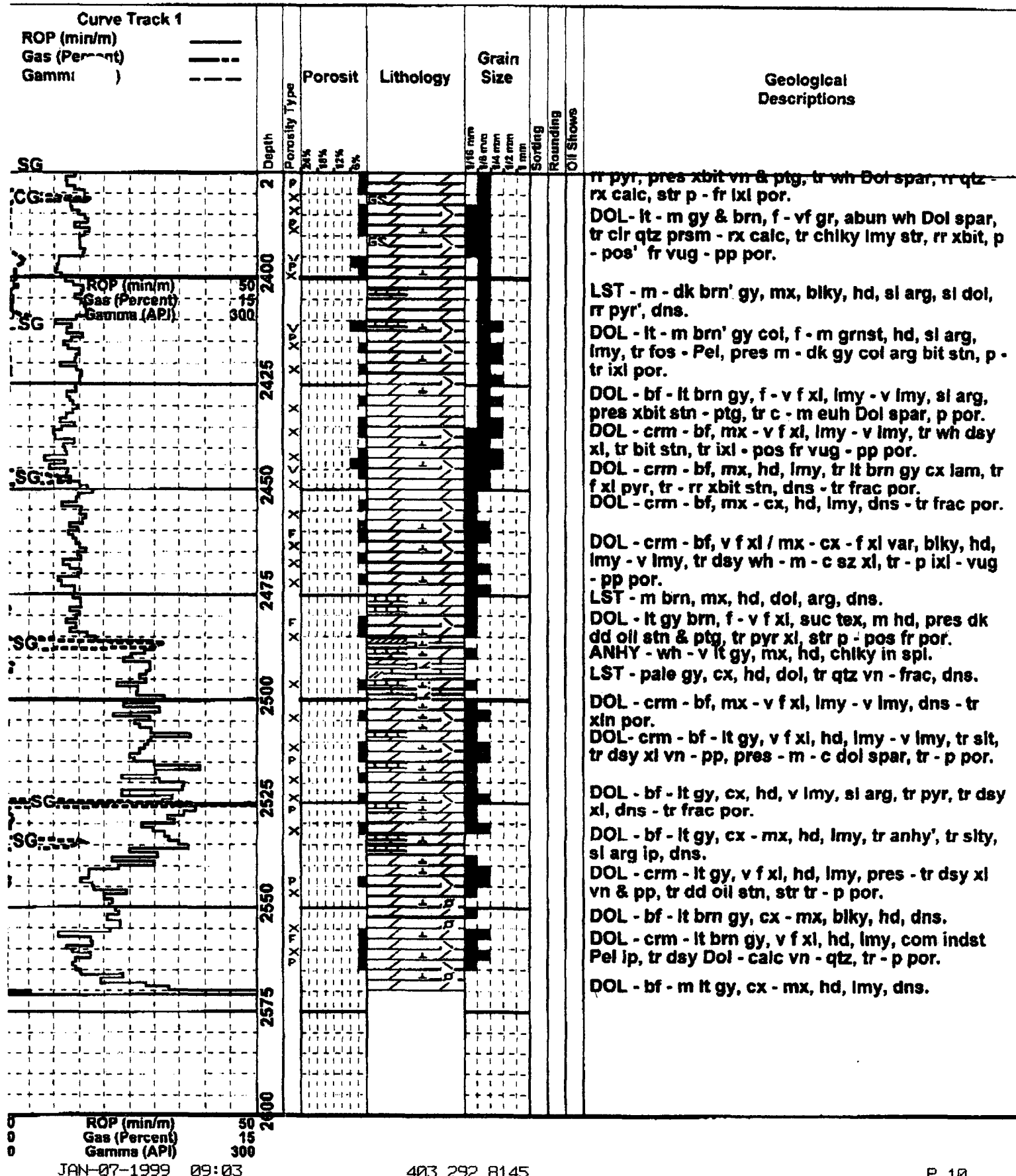
DRILLING MUD REPORT

Date 99-01-06 Check No. 58

OPERATOR: CANADIAN FOREST OIL LTD		CONTRACTOR: NADORS DRLC		RIG NO.: 24	
REPORT FOR: MURRAY ROBERTSON		REPORT FOR: RAY CHANDONNET		SPUD DATE: 98-11-13	
WELL NAME: CDN Forest et al Flt. Rows		LOCATION: I-61		DAYS FROM SPUD: 54	
BIT DATA		DRILL STRING		CASING	
SIZE (mm) 115.9 TYPE F-30 D.P. SIZE 177 mm LENGTH 2314 m		SURF 139 mm AT 548 m		IN HOLE: 90	
DEPTH IN 2395 m R.P.M. 60		mm LENGTH 20		IN TANKS: 93	
W.O.B. (kN) (FORCE) 17000 D.C. SIZE 160 mm LENGTH 145 m		INT: mm AT m		TOTAL: 183	
NO77.5 SIZE (mm) 310.2 310.2 mm LENGTH 256 m		LINE: mm AT m		IN STORAGE:	
PUMP AND CIRCULATION DATA					
PUMP	#1	#2	ANNULAR VELOCITY	SOLIDS CONTROL	EQUIPMENT
MODEL	F-1000		D.P. & HOLE 37 m/min		
LINE (mm)	140		D.P. & CSG. 36 m/min		
STROKE (mm)	254		D.C. (mm) 167 m/min		
STROKE/min	90		D.C. (mm) 52.5 m/min		
1/STROKE	11.68		CIRCULATION TIMES	CURRENT OPERATION AND REMARKS:	
L/min	934		BOTTOMS UP: (min) 70		
m/min	934		MUD CYCLE 800		
STANDPIPE PRESSURE (kPa) (MPa) 6200					
SAMPLE FROM FLOWLINE (1) TANK			RECOMMENDED TREATMENT: MAINTAIN		
FLOWLINE TEMP 68°C / 61°C			① pH AT 10.5 WITH CAUSTIC SODA		
DEPTH (m) 2570			② FLOW LOSS AT 6-8 cc/30min WITH DRUMS / ALGATE / STAMPAC 1223		
FUNNEL VISCOSITY (cP) @ °C 63			③ Viscosity AT 55 sec/LIT WITH CEL / KOLZON 2051		
DENSITY (kg/m³) 1145			(RANGE V. FOR LOGGING WITH CEL / KOLZON 2051)		
PLASTIC VISCOSITY (mPa.s) @ °C 22			④ Weight AT 1140 kg/m³ WITH CEL / KOLZON 2051		
YIELD POINT (Pa) 15			⑤ Weight AT 10.6 LIT/min		
GEL STRENGTH (Pa) 10/10 min 57			⑥ Centrifuge in Barite Rec.		
pH / STRIP METER 9.7			Per 8 or 12 hr TOUR ADD.		
FILTRATE (cm³/30 min at 700 kPa) °C 20			⑦ Chemicals		
CAKE THICKNESS (mm) 5			⑧ 2 Carbox / 2 Sodium Sulfate		
SAND CONTENT (Vol. Fraction) @ SAND 0.05			THROUGH INTERIOR ALL PHASE		
SOLIDS CONTENT (Percent) SOLIDS 10.2			DISTR.		
M.B.T. (Bar. Equiv.) (g/m³) 70			Do Not mix any more PACIFIC T-15		
OIL CONTENT (Vol. Fraction) 0.002					
ALKALINITY FILTRATE P1 (g/m³) 3.6					
CALCIUM (mg/L) 90					
CHLORIDES (mg/L) 1800					
POLYMER (g/m³) 1.3					
K ⁺ Ion 6000					
SULFITE 200					
Low Gravity Solids 130					
High Gravity Solids 115					
Drilled Solids 70					
Bentonite 56					
WAREHOUSE			MUD (100-43-766) 54-4773		
ET. Wilson - Power - 765-4222			ED SORCERED 254-4663 (Bentonite)		

TYRAN, CHALLER, DUNN, INTERNATIONAL, LTD. shall not be held responsible for any errors or omissions in this report and shall not be held responsible for any loss or damage resulting from the use of this report.





DATALOG MORNIN REPORT

OPERATOR: CANADIAN FOREST LTD.
 WELL NAME: Cdn Forest et al Flett Rapids
 LOCATION: 1-61-60-50-123-15
 CONTRACTOR: NABORS Rig #24
 REPORTED BY : Adrian Pristolnicu & Victor Matusovsky
 OPERATION: Drilling

DATE: Jan 07/99
 DAY # 48
 REPORT # 41
 TIME: 00:00
 DEPTH: 2571 m
 PROGRESS: 36m

BACKGROUND GAS:

DEPTH - INTERVAL (m)	TOTAL % HYDRO.	C1 (%)	C2 (%)	C3 (%)	C4 + C5 (%)	CO2 (%)
2535 - 2571	0.89 - 0.09	0.89 - 0.09	tr	0	0	0.03

PRODUCED GAS: (Trip Gas, Connection Gas, etc...) (%)

TYPE	Depth (m)	Total Gas / Backgr. / Time pumps off		
Connection Gas	2544	0.42	0.14	3 min

GAS SHOWS: (max/loc.background)

DEPTH - INTERVAL (m)	TOTAL (%) HYDRO.	C1 (%)	C2 (%)	C3 (%)	IC4 + NC4 (%)	IC5 + NC5 (%)

COMMENTS :

#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	SubSea Meters	North Meters	East Meters	Section Meters	Dogleg /30m	BldRate /30m	Trnrate /30m	Comment
	106.00	2359.00	5.25	20.00	2321.89	-2059.40	249.48	-41.40	252.64	0.98	0.00	10.77
	107.00	2399.00	5.00	41.00	2361.73	-2099.24	252.52	-39.63	255.24	1.41	0.19	15.75
	108.00	2436.00	4.50	40.00	2398.60	-2136.11	254.85	-37.64	257.11	0.41	0.41	0.81
	109.00	2475.00	4.00	40.00	2437.50	-2175.01	257.06	-35.78	258.88	0.38	0.38	0.00
	110.00	2513.00	4.00	40.00	2475.41	-2212.92	259.09	-34.08	260.52	0.00	0.00	0.00
	111.00	2522.00	3.50	47.00	2484.39	-2221.90	259.52	-33.68	260.85	2.26	1.67	23.33
	112.00	2561.00	2.75	46.00	2523.33	-2260.84	260.98	-32.13	261.96	0.58	0.58	0.77
Ext	2571.00	2.56	45.74	2533.32	-2270.83	261.31	-31.80	262.21	0.58	0.58	0.78	



PAJAK ENGINEERING LTD.

DRILLING COST REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS 1-61						AFE # A983002			
LOCATION: 300-161-6050-12315-0						PRESENT DEPTH: 2537 m			
Description		Date	Date	Date	Date	Date	5 DAY	PREV.	TOTAL
		99/01/01	99/01/02	99/01/03	99/01/04	99/01/05	TOTAL	TOTAL	COST
INTERMEDIATE CASING	m of 244 mm							236404	236404
PRODUCTION CASING	m of mm								
SURFACE CASING	m of 339 mm							168758	168758
DRILLING BITS						10750	10750	116548	127298
DAYWORK	\$/DAY	14176	14176	14176	14176	14176	70880	782674	853354
DIRECTIONAL DRILLING								198413	198413
FUEL					5881		5881	166026	171907
WATER		1148	600	1148	600	1148	4644	75082	79726
ENGINEERING/DESIGN								10800	10800
LEASE AND ACCESS									
- LICENCES & PERMITS									
- SURFACE LEASE & SURVEY								13000	13000
- ROAD & LEASE PREPARATION								153350	153350
- RESTORATION & CLEAN-UP									
RIG AND CAMP MOVE								232399	232399
DRILLING FLUIDS		4033	8056	165	2084	2134	16472	320105	336577
BOILER		1440	1440	1440	1440	1440	7200	65120	72320
COMMUNICATIONS		150	150	150	150	150	750	9600	10350
CAMP AND CATERING		3300	3300	3300	3300	3300	16500	213600	230100
CEMENT SERVICES									
- SURFACE								24612	24612
- INTERMEDIATE								70298	70298
- PRODUCTION/LINER									
CORING AND ANALYSIS									
EQUIPMENT RENTALS		2197	2197	2197	2084	2134	10809	102765	113574
DRILL STEM TESTS									
LOGGING				81005			81005	44686	125691
SAFETY SERVICES		1820	1715	1715	1715	1715	8680	30832	39912
SPECIAL SERVICES								10244	10244
TRUCKING					4882	540	5422	82519	87941
FIELD SUPERVISION									
- FOREMAN		800	800	800	800	800	4000	69600	73600
- GEOLOGIST		1695	1695	1695	1695	1695	8475	88943	97420
- SECOND MEN									
TRAVEL/ACCOMMODATION									
OVERHEAD									
Welding/tongs/vac truck								50672	50672
Crew/all/flights/vehicle		430	430	430	430	430	2150	72020	74170
Wadeco		2560	2310	2560	2560	2560	12550	127401	139951
DAILY COST		33749	36869	110781	41797	42972	266168	3536673	3802841
ACCUMULATED COST		3570422	3607291	5718072	3759869	3802841			

Account	Comment

SUPERVISOR: D. Solberg/M. Rogerson

PHONE #: (600) 700-2629

CCARD #:

Jan. 05 1999 11:05PM P01



**DYNAMIC DRILLING FLUIDS
INTERNATIONAL LTD.**

DRILLING MUD REPORT

Date 99-01-05 Check No. 57

OPERATOR: Canadian Forest Oil Ltd		CONTRACTOR: WABORS DRILG		FIG NO.: 24	
REPORT FOR: MURRAY ROBERTSON		REPORT FOR: RAY CHANDONNET		SPUD DATE: 98-11-13	
WELL NAME: CAN FOREST et al FLEET RAPIDS		LOCATION: I-61		DAYS FROM SPUD: 53	

BIT DATA		DRILL STRING		CASING		MUD VOLUME (m³)	
SIZE (mm): 215.9	TYPE: F-30	D.P. SIZE: 127	LENGTH: 2264	SUFF: 339	mm AT: 568	IN HOLE: 88	
DEPTH IN: 2995	m R.P.M.: 60	mm LENGTH: 141		INT: 244.5	mm AT: 2068	IN TANKS: 91	
W.O.B. (kN) (FORCE): 167000		D.C. SIZE: 141		mm LENGTH: 141		TOTAL: 179	
NOZZLE SIZE (mm): 5/16		P.H.A. mm LENGTH: 256		LINER: mm AT		IN STORAGE:	

PUMP AND CIRCULATION DATA				EQUIPMENT			
PUMP	#1	#2	ANNULAR VELOCITY	SOLIDS CONTROL	CHRYSLER CRY TUBES (gpm)	CHRYSLER CRY TUBES (gpm)	CHRYSLER CRY TUBES (gpm)
MODEL	E-1000		D.P. & HOLE: 39 m/min	2513A	40		
LINER (mm)	190		D.P. & CSG: 36 m/min				
STROKE (mm)	254		D.C. (D.H. mm) 14.7 m/min				
STROKE/min	80		D.C. (CSG mm) 56.8 m/min	CURRENT OPERATION AND REMARKS:			
L/STROKE	11.68		CIRCULATION TIMES	DRILG ATTEND.			
L/min	934		BOTTOMS LIP: (min) 70				
m/min	934		MUD CYCLE 192				

STANDPIPE PRESSURE (kPa) (psi) 6300		RECOMMENDED MUD PROPERTIES:	
SAMPLE FROM () FLOWLINE () TANK	TEMP: 60°C 57°F	① pH AT 10cm WITH CATIONIC SOAP.	
FLOWLINE TEMP	DEPTH (m) 3500	② FLUID LOSS AT 6-8 cc/30min WITH DRISMAC/STAMPAC/LIGNITE 1:2:2	
DEPTH (m)	FUNNEL VISCOSITY (cP) at °C 37	③ VISCOSITY AT 50-5 SEC/LIT WITH GUL/KERAM IN A 200/100	
FUNNEL VISCOSITY (cP) at °C	DENSITY (kg/m³) 1195	④ WEIGHT AT 1140 kg/m³ WITH (a) DILUTION AT 9.10 LIT/MIN.	
DENSITY (kg/m³)	PLASTIC VISCOSITY (mPa.s) at °C 30	⑤ PER 12 HR TOUR MIX (a) 1 CHINA 5.10 / 12 HR 1 PA.C.	
PLASTIC VISCOSITY (mPa.s) at °C	YIELD POINT (Pa) 11	(b) 2 CORINEX / 2 SUTEX THROUGH INJECTION 30L UNDER DIRECT/PA	
YIELD POINT (Pa)	GEL STRENGTH (Pa) 10s/10 min 418		
GEL STRENGTH (Pa) 10s/10 min	pH () STRIP METER 10.0		
pH () STRIP METER	FILTRATE (cm³/30 min at 700 kPa) °C 7.6		
FILTRATE (cm³/30 min at 700 kPa) °C	CAKE THICKNESS (mm) 5		
CAKE THICKNESS (mm)	SAND CONTENT (Vol. Fraction) @ SAND 0.02		
SAND CONTENT (Vol. Fraction) @ SAND	SOLIDS CONTENT (Vol. Fraction) @ SOLIDS 0.08		
SOLIDS CONTENT (Vol. Fraction) @ SOLIDS	M.B.T. (Bent. Equiv.) (kg/m³) 50		
M.B.T. (Bent. Equiv.) (kg/m³)	OIL CONTENT (Vol. Fraction) 0.001300		
OIL CONTENT (Vol. Fraction)	ALKALINITY FILTRATE pH (LPH) 5.6		
ALKALINITY FILTRATE pH (LPH)	CALCIUM (mg/L) 90		
CALCIUM (mg/L)	CHLORIDES (mg/L) 1200		
CHLORIDES (mg/L)	POLYMER (kg/m³) 1.4		
POLYMER (kg/m³)	K+ ion 1000		
K+ ion	SULFATE 180		
SULFATE			

THANKS E.D.

WAREHOUSE	MUD ENGINEER
FT. WILSON - POU'EN - 785-4222	554-9775
	EJ SOROCKEN - 536-4653

SYNOPSIS OF THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. IT IS THE POLICY OF THE NATIONAL ARCHIVES TO MAKE AVAILABLE TO THE PUBLIC INFORMATION CONTAINED HEREIN TO THE MAXIMUM EXTENT PRACTICABLE. IT IS THE POLICY OF THE NATIONAL ARCHIVES TO MAKE AVAILABLE TO THE PUBLIC INFORMATION CONTAINED HEREIN TO THE MAXIMUM EXTENT PRACTICABLE. IT IS THE POLICY OF THE NATIONAL ARCHIVES TO MAKE AVAILABLE TO THE PUBLIC INFORMATION CONTAINED HEREIN TO THE MAXIMUM EXTENT PRACTICABLE.

DATALOG MORNIN REPORT

OPERATOR: CANADIAN FOREST LTD.

WELL NAME: Cdn Forest et al Flett Rapids

LOCATION: 1-61-60-50-123-15

CONTRACTOR: NABORS Rig #24

REPORTED BY : Adrian Pristolnicu & Victor Matusovsky

OPERATION: Drilling

DATE: Jan 06/99

DAY # 47

REPORT # 40

TIME: 00:00

DEPTH: 2535 m

PROGRESS: 42m

BACKGROUND GAS:

DEPTH - INTERVAL (m)	TOTAL % HYDRO.	C1 (%)	C2 (%)	C3 (%)	C4 + C5 (%)	CO2 (%)
2493 - 2535	0.89 - 0.30	0.89 - 0.30	tr	0	0	0.04

PRODUCED GAS: (Trip Gas, Connection Gas, etc...) (%)

TYPE	Depth (m)	Total Gas / Backgr. / Time pumps off		
Recicled Survey Gas	2492	0.54	0.1	0 min
Connection Gas	2506	0.34	0.18	3 min
Survey Gas	2526	15.58	0.14	46 min
Survey Gas	2535	4.68	0.17	45 min

GAS SHOWS: (max/loc.background)

DEPTH - INTERVAL (m)	TOTAL (%) HYDRO.	C1 (%)	C2 (%)	C3 (%)	IC4 + NC4 (%)	IC5 + NC5 (%)

COMMENTS :

VERSION INFORMATION

ERS. 2.0: CWLS LOG ASCII STANDARD -VERSION 2.0
REP. NO: ONE LINE PER DEPTH STEP

NOTE: This file conforms to the LAS 2.0 standard and may contain entries in the header and data sections that are not compatible with previous versions of LAS software.

WELL INFORMATION BLOCK

WELL UNIT	DATA	DESCRIPTION OF MNEMONIC
TRT.M	2490.0000	:START DEPTH
TOP.M	2535.0000	:STOP DEPTH
TEP.M	0.0000	:STEP LENGTH
NULL.	-999.2500	:NULL VALUE
COMP.	Canadian Forest Ltd.	:COMPANY
WELL.	Cdn Fr et al Flett Rapids	:WELL
LD.	<NOT AVAILABLE>	:FIELD
LOC.	1-61-60-50-123-15	:LOCATION
SVC.		:SERVICE COMPANY
DATE.	04-JAN-1999	:LOG DATE
WI.	<NOT AVAILABLE>	:UNIQUE WELL ID

CURVE INFORMATION

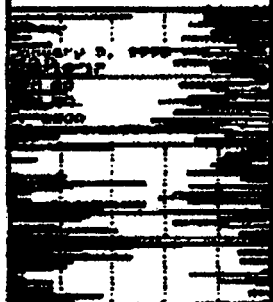
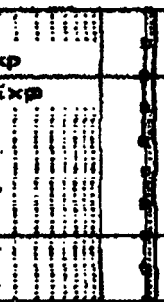
WELL UNIT	API CODE	CURVE DESCRIPTION
MEA.M		: 1 BL Hole Depth
IX.		: 2 DO D Exp
XC.		: 3 DP Dc Exp

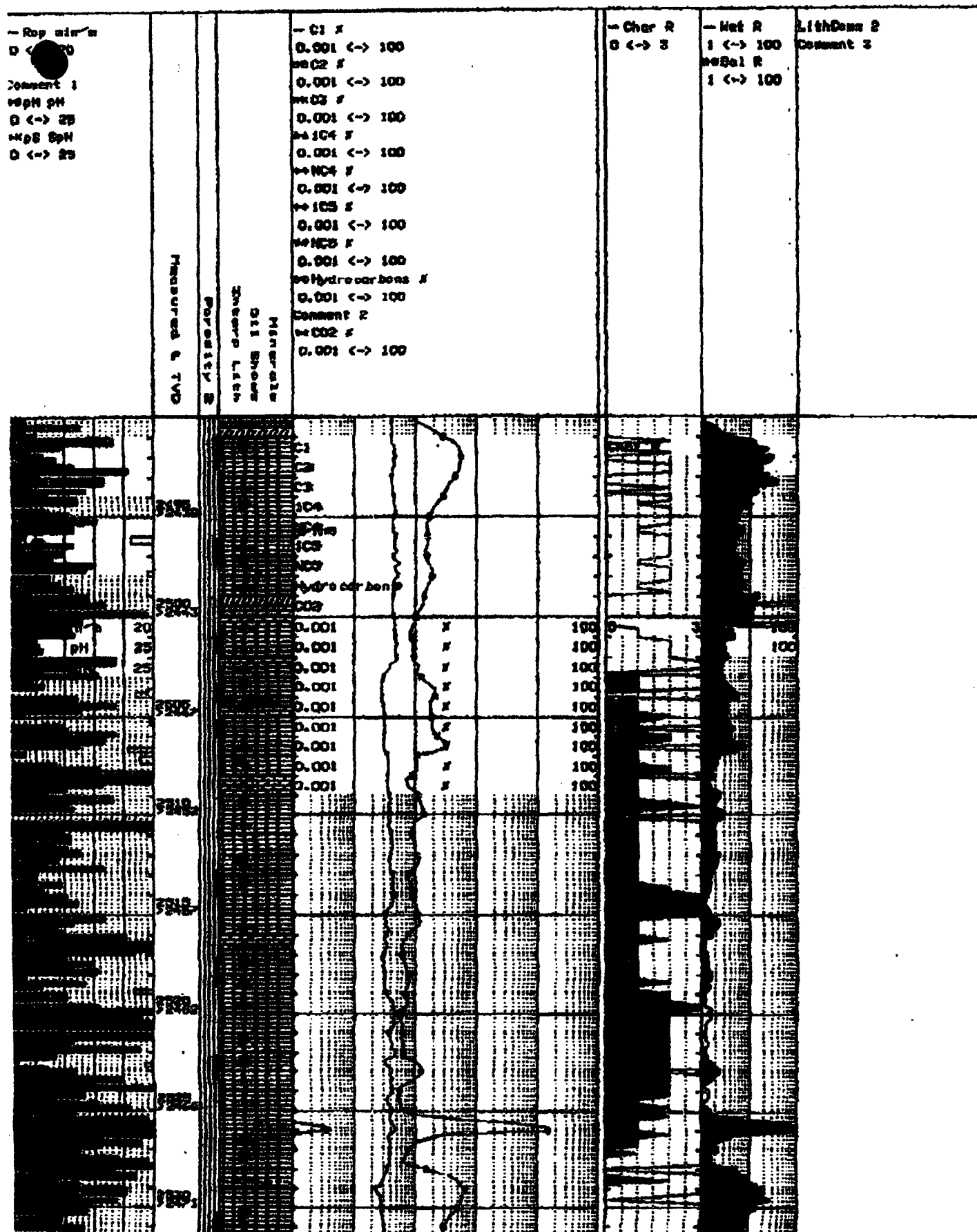
OTHER DATA

roduced by QLOG (c)1991-1999 Datalog Technology Inc.

LOG/LAS \$Revision: 2.5 \$

INMEA	DX	DXC
2490.000	1.9100	1.6700
2495.000	2.1500	1.8600
2500.000	2.1300	1.8700
2505.000	2.1300	1.8600
2510.000	2.1500	1.8700
2515.000	2.1900	1.9000
2520.000	2.1600	1.8800
2525.000	2.1900	1.9000
2530.000	2.1800	1.8900
2535.000	2.2100	1.9200

- Rep min 0.1 <-> 30 Comment 1	Depth Time	USL L 130	- C1 # 0.001 <-> 100 - C2 # 0.001 <-> 100 - C3 # 0.001 <-> 100 - C4 # 0.001 <-> 100 - NC4 # 0.001 <-> 100 - C5 # 0.001 <-> 100 - NC5 # 0.001 <-> 100 - C6 # 0.001 <-> 100 - Total Res Cmt # 0.001 <-> 100 Comment 2	- D Exp 0.1 <-> 10 - D6 Exp 0.1 <-> 10
	2600 2525		C1 1100 C2 C3 C4 NC4 C5 NC5 C6 	D Exp D6 Exp 



JAN-06-1999

09:06

FROM PAJAK ENGINEERING LTD.

TO

NEB

P.09

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 06, 1999
REPORT TO: Gary Winter

WELL REPORT NO. 54
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-600-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS 1-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 54

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2538 (2500.4 TVD) m K.B.

FORMATION: Camsell Fm.

24 HOUR PROGRESS: 43 m

AVERAGE DRILLING RATE: 2.0 m/hr.

00:00 HOUR STATUS: Drilling 216mm hole.

05:00 HOUR DEPTH: 2551 (2513.4 TVD) m

FORMATION: Camsell Fm.

CURRENT DRILLING RATE: 2.75 m/hr.

05:00 HOUR STATUS: Drilling 216mm hole.

WEATHER: Light wind, snow, a daytime High of - 25 degrees C., & an overnight Low of - 29 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Drilled 216mm hole.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: Drill ahead 216mm hole.

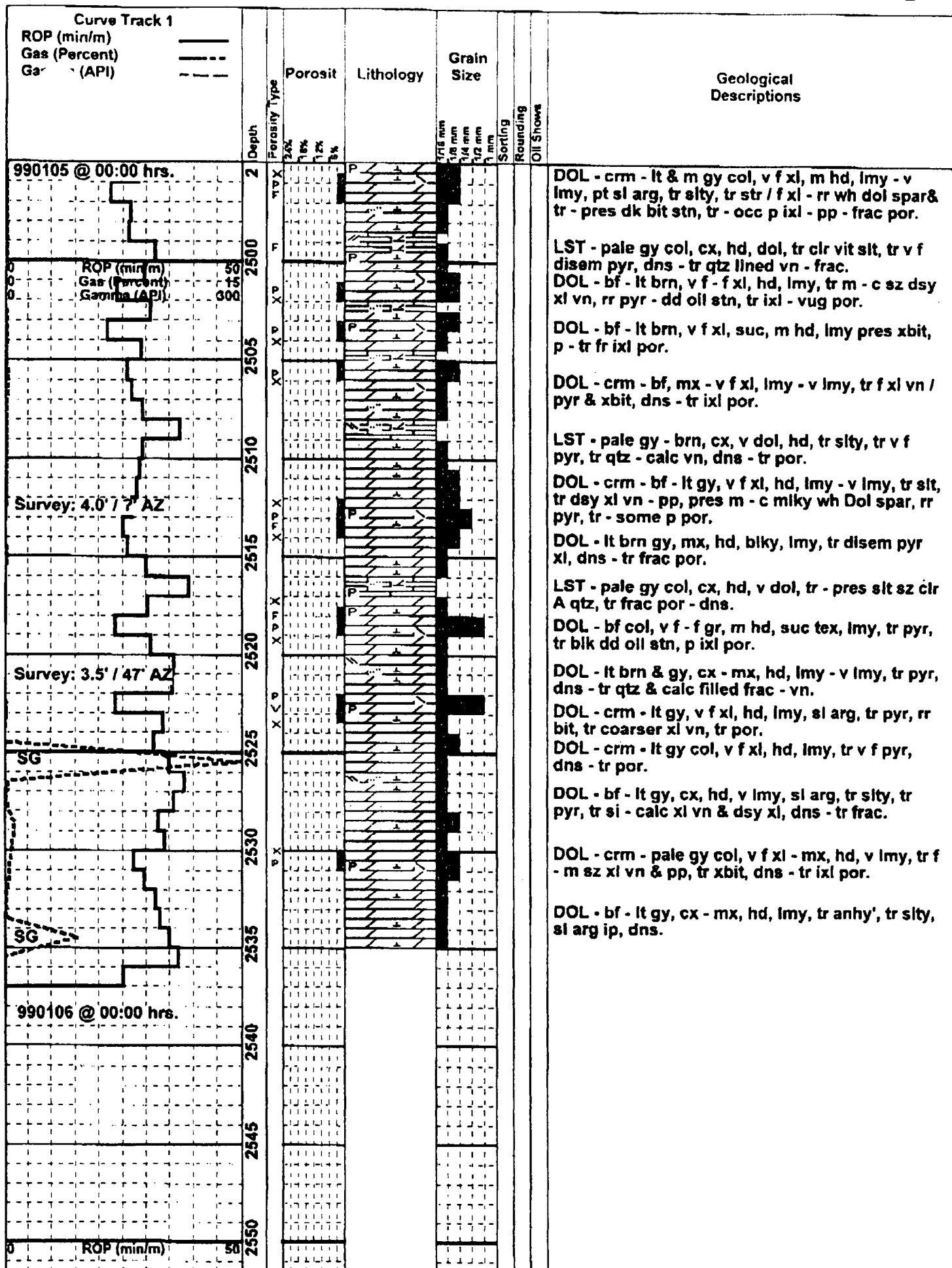
SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES: Density: 1150 kg/m³ Viscosity: 50 s/L Water Loss: 6.8 cm³/30 min
pH: 10.5 F.C.: .5 mm Temp: 57 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2069.5	2037.5	- 1775.0	+199
Intermediate Casing	- 1975	2067.7	2035.3	-1772.8	+ 202
NAHANNI DOL.		2208.6	2172.6	- 1910.3	
HEADLESS	- 2148	2239	2202.6	- 1940.1	+ 208
LANDRY LST.		2290.7	2253.9	- 1991.4	
ARNICA	- 2182	2310	2273.1	- 2010.6	+ 171
L. DEV. SOMBRE	- 2425	2448	2410.6	- 2148.1	+ 277
CAMSELL	-2460	2486	2448.5	- 2185.0	+ 275
ROOT RIVER	- 2560				
THRUST FAULT	- 2624				
SIL./ORD. MOUNT KINDLE	- 2690				
ORD. LITTLE DOCTOR	- 2860				
FRANKLIN MTN.	- 2880				
CAMBRIAN SS.	- 2890				

CUMULATIVE Well Cost To Date: \$ 3,802,841 (99/01/06)
\$ 3,759,869 (99/01/05)



#	Depth Meters	Inc Degrees	Azimuth Degrees	TVD Meters	SubSea Meters	North Meters	East Meters	Section Meters	Dogleg /30m	BldRate /30m	Trnrate /30m	Comment
JAN-06-1999	96.00	2051.30	18.10	341.10	2019.83	-1757.34	196.03	-32.83	198.57	0.67	0.66	0.33
	97.00	2055.60	18.00	341.90	2023.92	-1761.43	197.29	-33.25	199.89	1.86	0.70	5.58
Int		2069.50	17.14	342.50	2037.17	-1774.68	201.29	-34.53	204.07	--	--	
	99.00	2080.00	16.50	343.00	2047.22	-1784.73	204.19	-35.43	207.09	1.89	1.84	1.35
	100.00	2091.00	15.50	343.00	2057.79	-1795.30	207.09	-36.32	210.11	2.73	2.73	0.00
	101.00	2130.00	13.10	347.00	2095.58	-1833.09	216.38	-38.84	219.72	2.00	1.85	3.08
	102.00	2160.00	12.00	349.00	2124.87	-1862.38	222.75	-40.20	226.24	1.18	1.10	2.00
	103.00	2207.00	9.75	353.00	2171.02	-1908.53	231.50	-41.62	235.09	1.51	1.44	2.55
Int		2208.60	9.67	353.13	2172.60	-1910.11	231.77	-41.65	235.36	--	--	
Int		2239.00	8.21	356.15	2202.63	-1940.14	236.47	-42.10	240.05	--	--	
	106.00	2246.00	7.88	357.00	2209.56	-1947.07	237.45	-42.16	241.02	1.52	1.44	3.08
	107.00	2284.00	6.75	359.00	2247.25	-1984.76	242.28	-42.33	245.79	0.91	0.89	1.58
Int		2290.70	6.46	0.06	2253.90	-1991.41	243.05	-42.34	246.54	--	--	
Int		2310.00	5.66	3.69	2273.10	-2010.61	245.09	-42.28	248.52	--	--	
	110.00	2320.00	5.25	6.00	2283.05	-2020.56	246.03	-42.20	249.43	1.39	1.25	5.83
	111.00	2359.00	5.25	20.00	2321.89	-2059.40	249.48	-41.40	252.64	0.98	0.00	10.77
	112.00	2399.00	5.00	41.00	2361.73	-2099.24	252.52	-39.63	255.24	1.41	0.19	15.75
	113.00	2436.00	4.50	40.00	2398.60	-2136.11	254.85	-37.64	257.11	0.41	0.41	0.81
Int		2448.00	4.35	40.00	2410.57	-2148.08	255.56	-37.05	257.67	--	--	
	115.00	2475.00	4.00	40.00	2437.50	-2175.01	257.06	-35.78	258.88	0.38	0.38	0.00
	116.00	2513.00	4.00	40.00	2475.41	-2212.92	259.09	-34.08	260.52	0.00	0.00	0.00
	117.00	2522.00	3.50	47.00	2484.39	-2221.90	259.52	-33.68	260.85	2.26	1.67	23.33
Ext		2538.00	2.61	59.44	2500.36	-2237.87	260.04	-33.00	261.22	2.07	1.67	23.32

JAN-06-1999 10:06

403 292 8145

P.15

DAILY DRILLING REPORT

NAME: CDN FOREST et al FLETT RAPIDS 3-61		LOCATION: 300-361-6050-12315-0		DATE: 99/01/05	
U.W.I.: 3001616050123150		CPA NO.:		DAY: 53	
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: WIDM1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drig.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Snow		TEMP: -17 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 2495.00 m		PROGRESS: 84.00 m		PSTD: m FORMATION:	
8:00 a.m. DEPTH: 2508.00 m		8:00 a.m. OPERATION: Drilling 215.9m hole @ 2m/hour.			

AFE #: A983002		AFE AMT: \$ 5747200		DAILY COST: \$ 41797		CUMULATIVE COST: \$ 3759869	
1 215.9m bit	1 172mm bitsub	1 monel DC	1 monel DC	1 shock sub			
1 R J	1 168mm DC	1 R 3	1 168mm DC	1 jar			
14 168mm DC	1 X/O sub	9 HU/DP					
LENGTH: 256.40 m		WT. BELOW JARS: 8000 kgN		JAR HRS: 105.2		JAR SERIAL #: 10708	
WT. ON BIT: 16000 kgN		ROTARY RPM: 60		STRING WT.: 102000 kgN			
DRILL PIPE O.D.: 127		THREAD: 114 IF		DRILL COLLARS O.D.: 168		THREAD: 127mm-90	
						NO. IN HOLE: 18	

TOTAL
ROTATING
HOURS: 636.75

BITS

BIT NO.	SIZE mm	NAME	WELL #	TYPE	ROTARY RPM			DEPTH		MTR HOUR	MTR FEET	WELL O.D.		BIT NO.	CUTTING SURFACE		REMARKS	
					1	2	3	IN	OUT			IN	OUT		IN	OUT		
1B	215.9	REED	TC1097	HP-11	7.9	7.9	7.9	2073	2083	10	4.0	2.50		6-10	60	2 2	WT A E 1	NO BHA
2B	215.9	SEC	680230	GS84F	7.9	7.9	7.9	2083	2395	312	4.0	77.25		12-16	60	7 8	BT A F 7	NG Log
3B	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395		100	4.1	24.50	2.50	16-17	60			

LAST PIPE TALLY: 2396.70 BOARD: 2395.70 CORRECTION: YES [] NO [X]

DEPTH	DENSITY	PH	W	FC	PP/PP	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS	GRS
32	1150/1150	10.0	7.2	0.5	19/ 11.5	3.0/7.0	80.00		10.00	55		6000.	1200	40	0.5	1.5	54/ 57		
52 HR IN kg/m3 OUT kg/m3 HR OUT kg/m3 HR OUT kg/m3 HR OUT kg/m3																			

TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE	TYPE
Emco	140	254	R1	0.94	Ranco	140	254			6600	39.3	65.1	87.5	77.07					

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES		
	AZIMUTH		DRILLING	21.00	SURVEYING	2.00	Barite	
5.00 "	@ 2399.00 m	41.00	RIG SERV	0.50	SAFETY NTB	0.50	Sod Sulf	5
6.50 "	@ 2436.00 m	40.00	TRIPPING		WHL TOOLS		Soda Ash	
4.00 "	@ 2478.00 m		CIRCULATE		PRESS TEST		Bldg. rent	1
.	@ m		CEMENTING		REPAIRS		Chemcide	2
.	@ m		CLN TO BTH		ROP DRILL		Drispac re	2
.	@ m		SLIP & CUT		LOGGING		starpac	4
.	@ m		REAMING				sol Nat	
.	@ m						Lignite	
.	@ m						Corinox	5
.	@ m						Kelzan	
.	@ m						Cauatic	4
			TOTAL HOURS: 24.00					

MUD COMMENTS: Running barite recovery cys.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)
 1999.01.04 @ 00:00 Hours
 Drilled 215.9m hole with rig services, safety meetings and surveys as required from 2411mKB to 2495mKB at 24:00 hours
 1999.01.04.
 Note #1: Held daily meeting with both crews.
 Topic: Running surveys.

Note #2: Directional survey barrel got pulled too fast and too high on survey at 2436mKB. The barrel was damaged, waiting on new barrel from Edmonton. The survey at 2478mKB is Tetco Drift Indicator.
 (No Azimuth)

SUPERVISOR: D. Solberg/M. Rogerson	PHONE #: (600) 700-2529	CALLING CARD#:
------------------------------------	-------------------------	----------------

TOP	2493.0000	:STOP DEPTH :
TSP.N	0.0000	:STEP LENGTH
ULL.	-999.2500	:NULL VALUE
OMP.	Canadian Forest Ltd.	:COMPANY
ELL.	Cdn Fr et al Flett Rapids	:WELL
LD	<NOT AVAILABLE>	:FIELD
DC	I-61-60-80-123-15	:LOCATION
EVC.		:SERVICE COMPANY
ATE.	03-JAN-1999	:LOG DATE
WI	<NOT AVAILABLE>	:UNIQUE WELL ID

CURVE INFORMATION

MEM.UNIT	API CODE	CURVE DESCRIPTION
----------	----------	-------------------

MEA.N	:	1 BL Hole Depth
X	:	2 DO D Exp
XC	:	3 DP Dc Exp

OTHER DATA

roduced by QLOG (c)1991-1999 Datalog Technology Inc.
LOG/LAS Revision: 2.5 8

MEAN	DX	DXC
2410.000	1.8900	1.6400
2415.000	1.9200	1.6800
2420.000	1.9500	1.6090
2425.000	1.8700	1.6200
2430.000	1.9100	1.6700
2435.000	1.8800	1.6500
2440.000	1.8600	1.6200
2445.000	1.7800	1.5600
2450.000	1.7700	1.5500
2455.000	1.8700	1.6400
2460.000	1.8900	1.6500
2465.000	1.9000	1.6700
2470.000	1.8800	1.6500
2475.000	1.9200	1.6800
2480.000	1.8700	1.6300
2485.000	1.8400	1.6100
2490.000	1.9100	1.6700
2493.000	2.1500	1.8800

JAN-05-1999 07:22 FROM PAJAK ENGINEERING LTD. TO
FROM : R. Rogerson PHONE NO. : 6022513

CDN FOREST P.02
Jan. 05 1999 05:17PM FB1

DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD. DATE: Jan 05/99
WELL NAME: Cdn Forest at al Platt Rapids DAY #: 46
LOCATION: 1-61-60-50-123-15 REPORT #: 39
CONTRACTOR: NABORS Sig#24 TIME: 00:00
REPORTED BY: Adrian Prietolnicu DEPTH: 2493 m
Victor Natusovsky PROGRESS: 83 m
OPERATION : Drilling 10=100m=10000ppm

BACKGROUND GAS:

DEPTH (m) INTERVAL	TOTAL(%) HYDROCARB	C1 (%)	C2 (%)	C3 (%)	C4+C5 (%)	CO2 (%)
2410 - 2493	0.89 - 0.30	0.89 -0.30	tr	0	0	.04

PRODUCED GAS: (Frip Gas, Connection Gas, etc.)

TYPE	DEPTH (m)	(%) TOTAL	(%) BACKGROUND	TIME PUMPS OFF
Survey Gas	2411	2.32 /	0.36 /	40min
Connection Gas	2439	0.23 /	0.09 /	4min
Survey Gas	2448	4.10 /	0.78 /	42min
Connection Gas	2457	0.21 /	0.08 /	3min
Survey gas	2457	9.68 /	0.06 /	44min

GAS SHOWS: (max/log.background)

DEPTH (m) INTERVAL	MAXIMUM HYDR.(%)	C1 (%)	C2 (%)	C3 (%)	IC4+HC4 (%)	IC5+HC5 (%)
2478	0.33/0.08	0.32/0.08	tr	tr	0	0

COMMENTS -
-

JAN-05-1999 07:23
FROM : M. Rogerson

FROM PAJAK ENGINEERING LTD.
PHONE NO. : 662

TO

CDN FOREST P.04
Jan. 05 1999 05:19AM P04

Core	Depth	Interval	Porosity	Permeability	Core	Depth	Interval	Porosity	Permeability
1	0	100	0.001	100	1	0	100	0.001	100
2	100	200	0.001	100	2	100	200	0.001	100
3	200	300	0.001	100	3	200	300	0.001	100
4	300	400	0.001	100	4	300	400	0.001	100
5	400	500	0.001	100	5	400	500	0.001	100
6	500	600	0.001	100	6	500	600	0.001	100
7	600	700	0.001	100	7	600	700	0.001	100
8	700	800	0.001	100	8	700	800	0.001	100
9	800	900	0.001	100	9	800	900	0.001	100
10	900	1000	0.001	100	10	900	1000	0.001	100

01/05/99 TUE 09:15 FAX 403 292 8145

CANADIAN FOREST

007

JAN-05-1999 07:24 FROM PAJAK ENGINEERING LTD.

TO

CDN FOREST

P.05





**DYNAMIC DRILLING FLUIDS
 INTERNATIONAL LTD.**

DRILLING MUD REPORT

DATE 99-01-03 CHECK NO. 55

OPERATOR: Canadian Forest Oil Ltd		CONTRACTOR: NABORS DALL		RIG NO.: 241	
REPORT FOR: MURRAY ROGERSON		REPORT DATE: RAY CHANDONNET		SPUD DATE: 98-11-13	
WELL NAME: 001 Forest at Fort Evans		LOCATION: T-61		DAYS FROM SPUD: 51	
BIT DATA		DRILL STRING		CASING	
SIZE (mm): 215.7	TYPE: F-3P	D.P. SIZE (mm): 21	LENGTH (m): 2140	SLURRY (mm AT): 339	IN HOLE: 89
DEPTH (m): 329.5	R.P.M.: 60	mm LENGTH:	m	INT. (mm AT): 306.2	IN TANK: 96
W.O.B. (kN) (FORCE): 16/17000	D.C. SIZE (mm): 14.5	mm LENGTH:	m	INT. (mm AT):	TOTAL: 180
NOZZLE SIZE (mm): 31.7	mm LENGTH:	m	LINER (mm AT):	m	IN STORAGE: 10
PUMP AND CIRCULATION DATA			EQUIPMENT		
PUMP	#1	#2	ANGULAR VELOCITY	ROLES CONTROL	OVERFLOW (mm AT)
MODEL:	F-1000		D.P. & HOLE (mm/min): 37		
LINER (mm):	140		D.P. & CSO (mm/min): 36		
STROKE (mm):	252		D.C. (mm/min): 64.7		
STROKE/Min:	80		D.C. (mm/min): 56.5		
L/STROKE:	11.69		CIRCULATION TIMES:	CURRENT OPERATION AND REMARKS:	
L/min:	0.34		BOTTOMS UP (min): 61	LOG #1, 2, 3 - TO BOTTOM AND	
m/min:	0.34		MUD CYCLE: 192	FILL - R.T.H. AND DRILL	
STANDPIPE PRESSURE (kPa) (MPa): 6700					
SAMPLE FROM UPFLOWLINE (TANK)			RECOMMENDED TREATMENT:		
FLOWLINE TEMP: 49°C 47°C			WATER DRUG MANTON		
DEPTH (m): 329.5			PH AT 10.5 WITH CAUSTIC		
FURNEL VISCOSITY (mPa.s) @ °C: 63			SODAS		
DENSITY (kg/m³): 1150			2. FAVID LOSS AT 6-8cc/30min		
PLASTIC VISCOSITY (mPa.s) @ °C: 35			WITH DRIPPER/STORMING LIGNITE		
YIELD POINT (Pa): 12.5			IN A LEAKY RATIO		
GEL STRENGTH (Pa) 10%/10 min: 51			3. VISCOSITY AT 50-55 sec/LIT		
ON STRIP (METER): 9.2			WITH PREMIX		
FILTRATE (cc/30 min at 700 kPa): 6.0			4. WEIGHT AT 1140 kg/m³ WITH		
CAKE THICKNESS (mm): 1.5			(a) CENTRIFUGE ON WHITE RICE		
SAND CONTENT (Vol. Fraction) @ SAND: 0.01			W/ POTASSIUM WATER AT 10 g/min		
SOLIDS CONTENT (Vol. Fraction) @ SOLIDS: 0.05			(c) BRINE IS UNRESCUED		
M.B.T. (B.M.T. Equiv.) (kg/m³): 10			FOR 12 HR. TDR ADD.		
OIL CONTENT (Vol. Fraction): 0.00/100			1. CHEMICALS / 12 HR.		
ALKALINITY FILTRATE (pH) (mL): 10.5			2. GRINDER / 2 SISTER / 12 HR.		
CALCIUM (ppm): 60					
CHLORIDES (ppm): 1000					
POLYMER (g/m³): 1.4					
K ⁺ (ppm): 1000					
SULFATE: 40					
MAINTAIN PREMIX AT 250 VIS WITH					
GEL					
WAREHOUSE			FIELD ENGINEER		
F.T. NELSON - PAVAN - 785-422			S.S. 4-9713		
			K.D. SODERGRAN - 256-4653		

THANK YOU FOR DRILLING FLUIDS INTERNATIONAL LTD. PHONE NO. : 6622513 FAX NO. : 6622514
 175 RJ

DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD.

WELL NAME: Cdn Forest et al Flett Rapids

LOCATION: 1-61-60-50-123-15

CONTRACTOR: NABORS Rig #24

REPORTED BY : Adrian Pistolnicu & Victor Matusovsky

OPERATION: Drilling

DATE: Jan 04/99

DAY # 45

REPORT # 38

TIME: 00:00

DEPTH: 2410 m

PROGRESS: 15m

BACKGROUND GAS:

DEPTH - INTERVAL (m)	TOTAL % HYDRO.	C1 (%)	C2 (%)	C3 (%)	C4 + C5 (%)	CO2 (%)
2395 - 2410	0.89 - 0.30	0.89 - 0.30	tr	0	0	0.04

PRODUCED GAS: (Trip Gas, Connection Gas, etc...) (%)

TYPE	Depth (m)	Total Gas / Backgr. / Time pumps off
Trip Gas	2368	19 0.28 1320 min

GAS SHOWS: (max/loc.background)

DEPTH - INTERVAL (m)	TOTAL (%) HYDRO.	C1 (%)	C2 (%)	C3 (%)	IC4 + NC4 (%)	IC5 + NC5 (%)

COMMENTS :

DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD.
 WELL NAME: Cdn Forest et al Flett Rapids
 LOCATION: 1-61-60-50-123-15
 CONTRACTOR: NABORS Rig #24
 REPORTED BY : Adrian Pistolnicu & Victor Matusovsky
 OPERATION: Drilling

DATE: Jan 01/99
 DAY # 42
 REPORT # 36
 TIME: 00:00
 DEPTH: 2320 m
 PROGRESS: 98m

BACKGROUND GAS:

DEPTH - INTERVAL (m)	TOTAL % HYDRO.	C1 (%)	C2 (%)	C3 (%)	C4 + C5 (%)	CO2 (%)
2222 - 2320	0.79 - 0.10	0.78 - 0.10	tr	0	0	0.02

PRODUCED GAS: (Trip Gas, Connection Gas, etc...) (%)

TYPE	Depth (m)	Total Gas / Backgr. / Time pumps off		
Connection Gas	2237	6.68	1.21	5 min
Survey Gas	2257	12.42	1.49	40 min
Connection Gas	2275	12.85	0.8	5 min
Survey Gas	2200	17.32	0.22	5 min
Survey Gas	2118	20.04	1.21	40 min
				min

GAS SHOWS: (max/loc.background)

DEPTH - INTERVAL (m)	TOTAL (%) HYDRO.	C1 (%)	C2 (%)	C3 (%)	IC4 + NC4 (%)	IC5 + NC5 (%)
2222.0 - 2226.2	11.89 - 4.65	11.89 - 4.6	tr	0	0	0
2228.8 - 2230.0	8.20 - 0.79	8.20 - 0.79	tr	0	0	0
2231.2 - 2232.0	13.20 - 3.46	13.2 - 3.46	tr	0	0	0
2233.2 - 2234.4	9.88 - 1.55	9.88 - 1.55	tr	0	0	0

COMMENTS:

REF.	NAME OR PROJECT	DETAILS OF MEETINGS - AGREEMENTS -	ISSUES	TIME HRS. MIN.
41			DEC. 22 - 31/98	
42	<u>TO: Dave Anderson</u>			
43				
44		Biggery 16-28-50-8W5	PIPE LINE CONST.	
45				
46		ROW CLEARING To TOTAL = 30' D (EST.)		
47		FALL & SKID TREES		
48		STUMP & PILE		
49		BURN BRUSH PILES		
50		GRADE R.O.W.		
51				
52		SHUT DOWN JAN 1-2-3/99		
53		STARTED UP JAN 4/99 DOING SAME AS		
54		ABOVE		
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ALLS
[Signature]

Date

VERSION INFORMATION

2.0: LAS LOG ASCII STANDARD -VERSION 2.0
 NO: ONE LINE PER DEPTH STEP

NOTE: This file conforms to the LAS 2.0 standard and may contain entries in the header and data sections that are not compatible with previous versions of LAS software.

WELL INFORMATION BLOCK

WELL UNIT	DATA	DESCRIPTION OF MEMORIC
TRF.M	2320.0000	:START DEPTH
TOP.M	2395.0000	:STOP DEPTH
TRF.M	0.0000	:STEP LENGTH
NULL.	-999.2500	:NULL VALUE
COMP.	Canadian Forest Ltd.	:COMPANY
WELL.	Cdn Forest at Al Flett Rapids	:WELL
LD.	<NOT AVAILABLE>	:FIELD
LOC.	1-61-60-50-123-13	:LOCATION
SVC.		:SERVICE COMPANY
DATE.	31-DEC-1998	:LOG DATE
WI.	<NOT AVAILABLE>	:UNIQUE WELL ID

CURVE INFORMATION

WELL UNIT	API CODE	CURVE DESCRIPTION
WKA.M		: 1 BL Hole Depth
W.		: 2 DO D Exp
W.C.		: 3 DP Ds Exp

OTHER DATA

Produced by QLOG (c)1991-1999 Datalog Technology Inc.

QLOG/LAS \$Revision: 2.5 \$

WKA	DX	DXC
2320.000	1.8000	1.6300
2325.000	1.7100	1.5500
2330.000	1.8800	1.5200
2335.000	1.7500	1.5800
2340.000	1.8100	1.6400
2345.000	1.6800	1.5200
2350.000	1.7800	1.6100
2355.000	1.7800	1.6100
2360.000	1.7800	1.6100
2365.000	1.7300	1.5700
2370.000	1.7900	1.6200
2375.000	1.8400	1.6600
2380.000	1.8200	1.6500
2385.000	1.8600	1.6900
2390.000	1.8600	1.6600
2395.000	1.8800	1.7100

	Depth	Inc	Azimuth	TVD	SubSea	North	East	Section	Dogleg	BldRate	Trnrate	Comment
	Meters	Degrees	Degrees	Meters	Meters	Meters	Meters	Meters	/30m	/30m	/30m	
	0.00	0.00	0.00	0.00	262.49	0.00	0.00	0.00	0.00	0.00	0.00	
	1.00	569.60	0.00	0.00	569.60	-307.11	0.00	0.00	0.00	0.00	0.00	
	2.00	588.00	0.75	355.00	588.00	-325.51	0.12	-0.01	0.12	1.22	1.22	8.15
	3.00	599.00	0.50	7.00	599.00	-336.51	0.24	-0.01	0.24	0.77	0.68	32.73
	4.00	618.00	0.25	2.00	618.00	-355.51	0.36	0.00	0.35	0.40	0.39	7.89
	5.00	667.00	0.25	39.00	667.00	-404.51	0.55	0.07	0.53	0.10	0.00	22.65
	6.00	714.00	1.00	32.00	713.99	-451.50	0.98	0.35	0.89	0.48	0.48	4.47
	7.00	724.00	1.00	332.00	723.99	-461.50	1.13	0.36	1.03	3.00	0.00	180.00
	8.00	743.00	1.25	347.00	742.99	-480.50	1.48	0.23	1.40	0.61	0.39	23.68
	9.00	764.00	1.25	347.00	763.98	-501.49	1.93	0.13	1.86	0.00	0.00	0.00
	10.00	783.00	1.25	335.00	782.98	-520.49	2.32	0.00	2.27	0.41	0.00	18.95
	11.00	792.00	1.25	7.00	791.98	-529.49	2.50	-0.03	2.45	2.30	0.00	106.67
	12.00	802.00	1.25	352.00	801.98	-539.49	2.72	-0.03	2.67	0.98	0.00	45.00
	13.00	821.00	1.50	337.00	820.97	-558.48	3.15	-0.16	3.12	0.69	0.39	23.68
	14.00	839.00	1.50	7.00	838.96	-576.47	3.60	-0.22	3.57	1.29	0.00	50.00
	15.00	866.00	1.25	4.00	865.96	-603.47	4.25	-0.16	4.19	0.29	0.28	3.33
	16.00	893.00	1.00	0.00	892.95	-630.46	4.78	-0.14	4.70	0.29	0.28	4.44
	17.00	940.00	1.00	37.00	939.94	-677.45	5.52	0.11	5.37	0.41	0.00	23.62
	18.00	992.00	1.00	339.00	991.94	-729.45	6.30	0.22	6.12	0.56	0.00	33.46
	19.00	1049.00	3.00	17.00	1048.90	-786.41	8.19	0.48	7.91	1.21	1.05	20.00
	20.00	1067.00	3.25	15.00	1066.88	-804.39	9.14	0.75	8.78	0.45	0.42	3.33
	21.00	1087.00	3.13	21.00	1086.84	-824.35	10.19	1.09	9.74	0.53	0.19	9.00
	22.00	1102.00	3.25	29.00	1101.82	-839.33	10.95	1.44	10.41	0.92	0.25	16.00
	23.00	1126.00	3.00	37.00	1125.79	-863.30	12.04	2.15	11.33	0.63	0.31	10.00
	24.00	1146.00	2.75	39.00	1145.76	-883.27	12.83	2.76	11.98	0.40	0.38	3.00
	25.00	1175.00	2.10	35.00	1174.73	-912.24	13.81	3.51	12.78	0.69	0.67	4.14
	26.00	1211.00	1.60	49.00	1210.72	-948.23	14.68	4.27	13.47	0.56	0.42	11.67
	27.00	1233.00	1.50	59.00	1232.71	-970.22	15.03	4.74	13.71	0.39	0.14	13.64
	28.00	1281.00	1.50	132.00	1280.70	-1018.21	14.93	5.75	13.41	1.12	0.00	45.63
	29.00	1367.80	1.50	131.80	1367.47	-1104.98	13.41	7.44	11.57	0.00	0.00	0.07
	30.00	1380.90	1.30	122.60	1380.56	-1118.07	13.22	7.69	11.33	0.69	0.46	21.07
	31.00	1390.70	1.00	119.10	1390.36	-1127.87	13.12	7.86	11.20	0.94	0.92	10.71
	32.00	1400.30	0.90	120.50	1399.96	-1137.47	13.04	8.00	11.09	0.32	0.31	4.37

JAN-05-1999 08:33

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JAN-05-1999 08:33

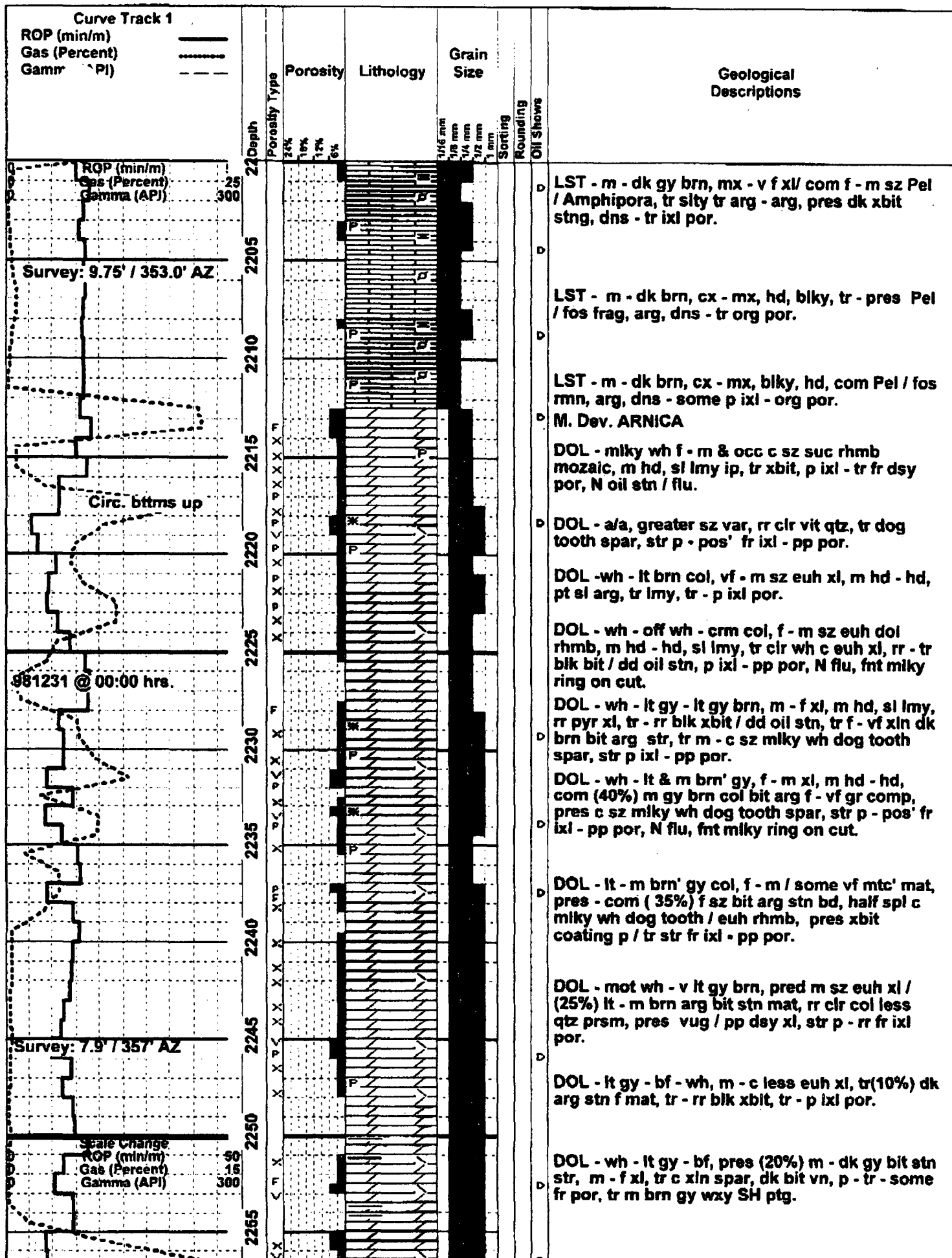
403 292 8145

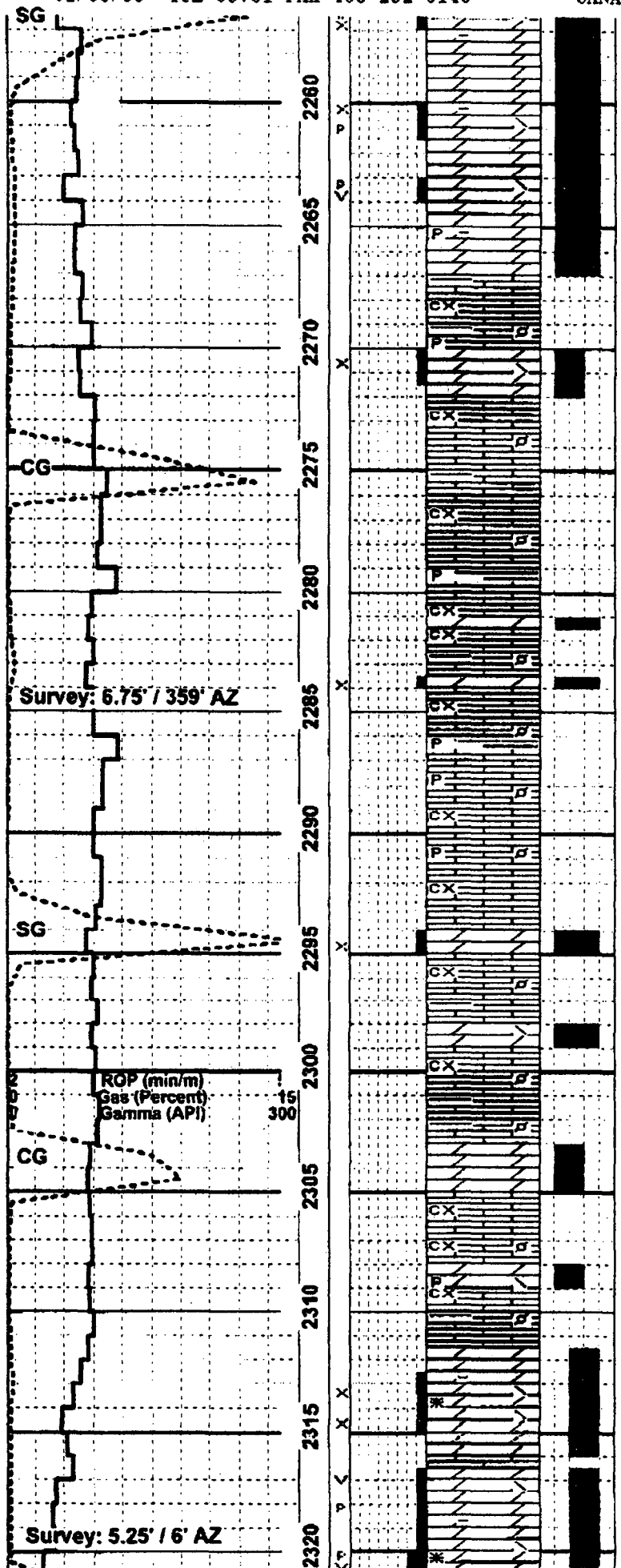
33.00	1409.09	0.80	103.80	1408.75	-1146.26	12.99	8.12	11.02	0.91	0.34	57.00
34.00	1419.70	1.20	48.20	1419.36	-1156.87	13.05	8.27	11.04	2.82	1.13	157.21
35.00	1429.50	2.10	18.00	1429.15	-1166.66	13.29	8.41	11.25	3.74	2.76	92.45
36.00	1439.10	3.50	3.90	1438.74	-1176.25	13.75	8.48	11.68	4.84	4.38	44.06
37.00	1448.80	5.10	357.90	1448.41	-1185.92	14.47	8.48	12.39	5.13	4.95	18.56
38.00	1458.40	6.60	355.30	1457.96	-1195.47	15.45	8.42	13.36	4.76	4.69	8.13
39.00	1468.10	7.80	354.50	1467.59	-1205.10	16.66	8.31	14.57	3.72	3.71	2.47
40.00	1477.90	8.70	354.30	1477.28	-1214.79	18.06	8.18	15.96	2.76	2.76	0.61
41.00	1487.70	9.60	354.00	1486.96	-1224.47	19.61	8.02	17.51	2.76	2.76	0.92
42.00	1497.40	10.40	353.10	1496.51	-1234.02	21.28	7.83	19.19	2.52	2.47	2.78
43.00	1507.00	11.30	351.00	1505.94	-1243.45	23.07	7.58	20.99	3.07	2.81	6.56
44.00	1516.80	12.00	350.80	1515.54	-1253.05	25.03	7.26	22.97	2.15	2.14	0.61
45.00	1526.60	12.50	350.50	1525.12	-1262.63	27.08	6.93	25.05	1.54	1.53	0.92
46.00	1536.20	13.10	350.80	1534.48	-1271.99	29.18	6.58	27.17	1.89	1.88	0.94
47.00	1546.00	13.40	351.20	1544.02	-1281.53	31.39	6.23	29.41	0.96	0.92	1.22
48.00	1555.60	14.20	350.30	1553.34	-1290.85	33.65	5.86	31.70	2.59	2.50	2.81
49.00	1568.40	15.30	349.70	1565.72	-1303.23	36.86	5.29	34.96	2.60	2.58	1.41
50.00	1578.20	16.20	349.30	1575.15	-1312.66	39.48	4.81	37.62	2.78	2.76	1.22
51.00	1587.90	17.00	349.20	1584.44	-1321.95	42.20	4.29	40.39	2.48	2.47	0.31
52.00	1597.50	17.60	349.60	1593.61	-1331.12	45.01	3.77	43.24	1.91	1.88	1.25
53.00	1607.20	18.10	348.70	1602.84	-1340.35	47.93	3.21	46.21	1.77	1.55	2.78
54.00	1616.90	18.50	348.90	1612.05	-1349.56	50.91	2.62	49.26	1.25	1.24	0.62
55.00	1626.60	19.00	348.50	1621.24	-1358.75	53.97	2.01	52.38	1.60	1.55	1.24
56.00	1636.40	19.50	348.70	1630.49	-1368.00	57.14	1.37	55.61	1.54	1.53	0.61
57.00	1646.00	20.00	349.10	1639.53	-1377.04	60.32	0.74	58.85	1.62	1.56	1.25
58.00	1655.60	20.60	349.30	1648.53	-1386.04	63.59	0.12	62.18	1.89	1.88	0.62
59.00	1665.20	21.20	349.40	1657.50	-1395.01	66.96	-0.51	65.60	1.88	1.88	0.31
60.00	1674.80	21.20	350.30	1666.45	-1403.96	70.38	-1.13	69.07	1.02	0.00	2.81
61.00	1684.50	21.10	350.30	1675.49	-1413.00	73.83	-1.72	72.57	0.31	0.31	0.00
62.00	1694.20	21.00	350.40	1684.55	-1422.06	77.26	-2.30	76.05	0.33	0.31	0.31
63.00	1703.80	21.10	349.80	1693.51	-1431.02	80.66	-2.89	79.50	0.74	0.31	1.88
64.00	1713.00	21.30	349.10	1702.08	-1439.59	83.93	-3.50	82.82	1.05	0.65	2.28
65.00	1722.80	21.40	348.70	1711.21	-1448.72	87.43	-4.19	86.39	0.54	0.31	1.22
66.00	1732.50	21.30	348.90	1720.25	-1457.76	90.89	-4.88	89.92	0.38	0.31	0.62
67.00	1751.90	21.10	348.10	1738.33	-1475.84	97.77	-6.27	96.94	0.54	0.31	1.24

P.09

JAN-05-1999	08:34	403 292 8145	68.00	1761.60	21.00	347.70	1747.39	-1484.90	101.18	-7.00	100.42	0.54	0.31	1.24
			69.00	1771.30	20.90	348.10	1756.44	-1493.95	104.57	-7.73	103.89	0.54	0.31	1.24
			70.00	1780.90	20.70	348.50	1765.42	-1502.93	107.91	-8.42	107.30	0.77	0.62	1.25
			71.00	1790.60	20.50	348.20	1774.50	-1512.01	111.25	-9.11	110.71	0.70	0.62	0.93
			72.00	1800.10	20.40	347.80	1783.40	-1520.91	114.49	-9.80	114.03	0.54	0.32	1.26
			73.00	1809.90	20.20	347.20	1792.59	-1530.10	117.81	-10.54	117.43	0.88	0.61	1.84
			74.00	1819.60	20.30	347.40	1801.69	-1539.20	121.09	-11.28	120.79	0.38	0.31	0.62
			75.00	1829.30	20.20	346.90	1810.79	-1548.30	124.36	-12.02	124.14	0.62	0.31	1.55
			76.00	1839.00	20.00	346.90	1819.90	-1557.41	127.61	-12.78	127.48	0.62	0.62	0.00
			77.00	1848.70	19.90	348.00	1829.02	-1566.53	130.84	-13.50	130.79	1.20	0.31	3.40
			78.00	1858.30	20.20	348.00	1838.04	-1575.55	134.06	-14.18	134.08	0.94	0.94	0.00
			79.00	1868.30	20.40	348.70	1847.42	-1584.93	137.46	-14.88	137.55	0.94	0.60	2.10
			80.00	1877.30	20.10	348.90	1855.86	-1593.37	140.51	-15.49	140.66	1.03	1.00	0.67
			81.00	1887.10	20.00	347.70	1865.07	-1602.58	143.80	-16.17	144.02	1.30	0.31	3.67
			82.00	1896.60	20.00	345.50	1873.99	-1611.50	146.96	-16.92	147.27	2.38	0.00	6.95
			83.00	1906.30	19.80	344.50	1883.11	-1620.62	150.15	-17.78	150.57	1.22	0.62	3.09
			84.00	1916.00	19.80	343.60	1892.24	-1629.75	153.31	-18.68	153.84	0.94	0.00	2.78
			85.00	1925.70	19.80	342.80	1901.37	-1638.88	156.46	-19.63	157.12	0.84	0.00	2.47
			86.00	1945.20	19.80	342.50	1919.71	-1657.22	162.76	-21.60	163.69	0.16	0.00	0.46
			87.00	1954.80	19.90	342.50	1928.74	-1666.25	165.87	-22.58	166.94	0.31	0.31	0.00
			88.00	1974.30	19.90	340.90	1947.08	-1684.59	172.17	-24.66	173.54	0.84	0.00	2.46
			89.00	1983.90	19.90	340.60	1956.11	-1693.62	175.26	-25.74	176.78	0.32	0.00	0.94
			90.00	1993.70	19.60	341.20	1965.33	-1702.84	178.38	-26.82	180.06	1.11	0.92	1.84
			91.00	2003.50	19.30	341.20	1974.57	-1712.08	181.47	-27.87	183.30	0.92	0.92	0.00
			92.00	2013.20	19.30	341.20	1983.72	-1721.23	184.51	-28.91	186.49	0.00	0.00	0.00
			93.00	2022.90	18.90	341.10	1992.89	-1730.40	187.51	-29.93	189.64	1.24	1.24	0.31
			94.00	2034.50	18.50	341.40	2003.88	-1741.39	191.03	-31.13	193.33	1.06	1.03	0.78
			95.00	2042.20	18.30	341.20	2011.18	-1748.69	193.34	-31.91	195.75	0.82	0.78	0.78
			96.00	2051.30	18.10	341.10	2019.83	-1757.34	196.03	-32.83	198.57	0.67	0.66	0.33
			97.00	2055.60	18.00	341.90	2023.92	-1761.43	197.29	-33.25	199.89	1.86	0.70	5.58
			98.00	2080.00	16.50	343.00	2047.22	-1784.73	204.19	-35.43	207.09	1.89	1.84	1.35
			99.00	2091.00	15.50	343.00	2057.79	-1795.30	207.09	-36.32	210.11	2.73	2.73	0.00
			100.00	2130.00	13.10	347.00	2095.58	-1833.09	216.38	-38.84	219.72	2.00	1.85	3.08
			101.00	2160.00	12.00	349.00	2124.87	-1862.38	222.75	-40.20	226.24	1.18	1.10	2.00
			102.00	2207.00	9.75	353.00	2171.02	-1908.53	231.50	-41.62	235.09	1.51	1.44	2.55

JAN-05-1999 08:34	103.00	2246.00	7.88	357.00	2209.56	-1947.07	237.45	-42.16	241.02	1.52	1.44	3.08
	104.00	2284.00	6.75	359.00	2247.25	-1984.76	242.28	-42.33	245.79	0.91	0.89	1.58
	105.00	2320.00	5.25	6.00	2283.05	-2020.56	246.03	-42.20	249.43	1.39	1.25	5.83
	106.00	2359.00	5.25	20.00	2321.89	-2059.40	249.48	-41.40	252.64	0.98	0.00	10.77
	107.00	2399.00	5.00	41.00	2361.73	-2099.24	252.52	-39.63	255.24	1.41	0.19	15.75
Ext		2411.00	4.93	47.30	2373.69	-2111.20	253.26	-38.91	255.82	1.37	0.19	15.75
Ext		2429.00	4.81	56.75	2391.62	-2129.13	254.20	-37.71	256.49	1.35	0.19	15.75





DOL - wh, pres lt - m brn gy arg strn str, pred m / some c euh xl, m hd, sl lmy, rr - tr chiky why lmy str, tr - pres dsy xl vug / pp lining, p - rr fr ixl - pp - vug por.

DOL - a/a, pred m sz milky wh xl, pt sl suc tex, rr - tr blk xbit along xl margins, tr - p ixl por.

LST - m brn - tan, cx, blk, hd, dns.

SH - m gy col, sfis, sl wxy.

DOL - lt brn gy, f - m xl, tr dsy xl, p - tr por.

LST - m brn - tan col, cx, hd, blk, sl dol, sl arg, tr str / fos frag - pel, dns.

LST - tan - lt brn, cx, blk, hd, some chiky fos' str, dns.

SH - lt gy gn col, sfis, m hd - m sft, wxy lstr, pyr'

DOL - wh - lt brn, f - m / some c xl, tr xbit coating, tr ixl por.

LST - crm - lt - m gy brn col, cx - mx / some chiky fos' bd, hd, sl arg, sl dol, dns - rr mfrs.

SH - lt gn gy - gy gn, m sft, wxy, num pyr xl.

LST - lt - m gy brn & gy, mx - cx, hd, tr chiky str, tr arg - arg, sl slty, sl dol, tr pyr xl, tr Pel / Pel ghst, dns.

DOL - a/a, f - c euh wh xl.

LST - a/a, lt - m brn, cx, tr gn' Sh clst.

DOL - wh - crm - bf, pred m sz xl, m hd, sl lmy, tr ib vf - f xl suc str / com lmy blk arg bit strn, tr xbit, tr ixl por.

SH - pale gy gn, sft, wxy, pyr'.

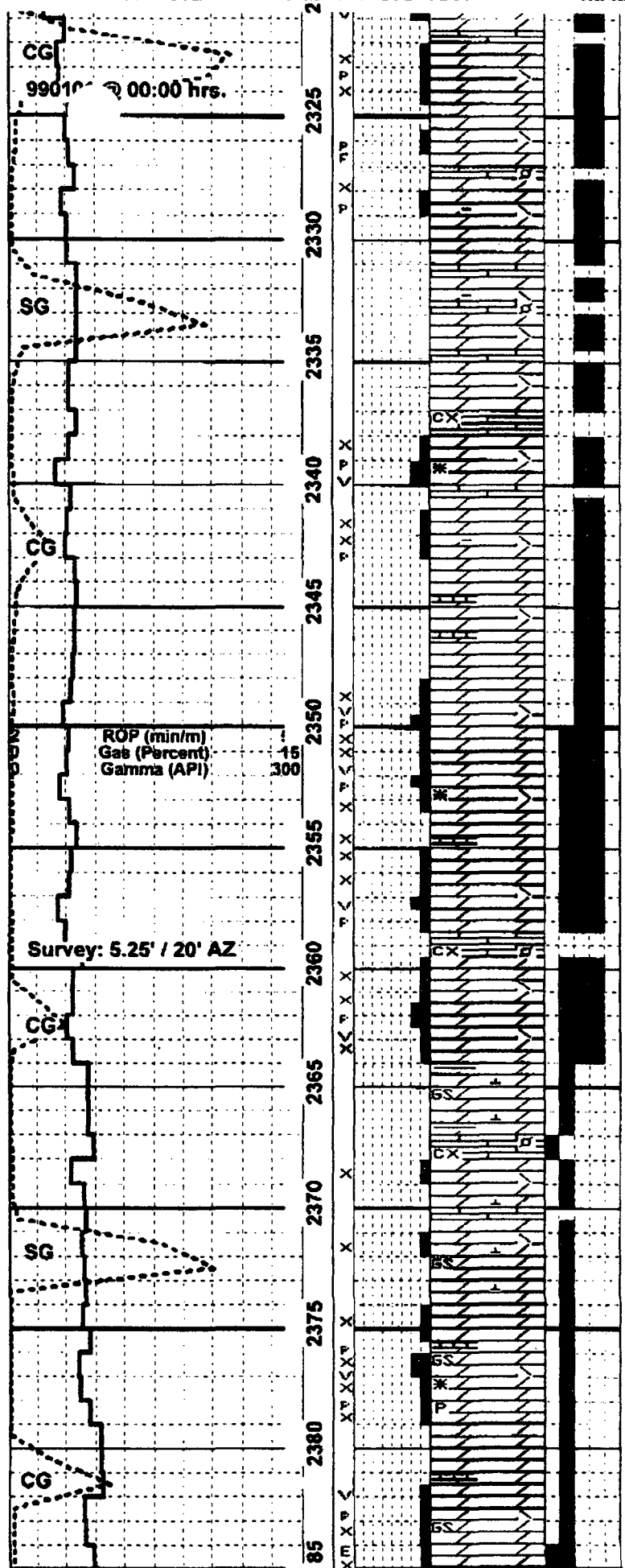
DOL - wh - bf, f - m xl, m hd, pt lmy, tr ixl por.

LST - a/a, crm - bf - tan col.

LST - lt - m brn, cx blk, hd, sl arg, tr chiky Pel / fos bd, arg str / tr pyr & bit, dns.

DOL - wh - lt brn, m - c xl, tr - pres dk gy - blk col arg bit coat along xl margins & veins, rr clr qtz / calc xl, tr pyr sphal min', dns - tr ixl por, tr p pp - vug por, gn' Sh clst.

DOL - wh / pres (20%) dk gy - blk arg bit vein, m - c xl, sl lmy, tr dsy pp / vug xl lining, p - tr fr ix - pp - vug por.



LST - a/a, lt gy brn, cx.

DOL - a/a, tr - pres dk arg stn.

LST - lt - m gy brn col, cx / tr chiky Pel / Pel
ghst, hd, dol, sl arg, dns.

DOL - wh - some bf - lt brn gy sl lmy arg vn, m -
c xl, hd, sl lmy, rr pyr / sphal min', tr (10%) blk
xbit vn / ptg, tr calc xl - qtz prsm, some dsy dog
tooth xl, str p pos' fr lxl - pp por.

DOL - wh, f - c xl, m hd, sl lmy, pres (25%) lt - m
brn arg bit stn vug lining / vn, tr qtz prsm - calc
xl - dsy rhmb, p tr fr lxl por, N flu / cut.

LST - m - dk brn, cx / fos - pel ip, arg, dol, dns.

DOL - a/a, pres - com (30%) dk brn gy col, mx,
hd, abun arg bit stng, tr dsy xl, p lxl - vug - pp
por.

SH - m gy - blk, sfis, m hd, sl calc.

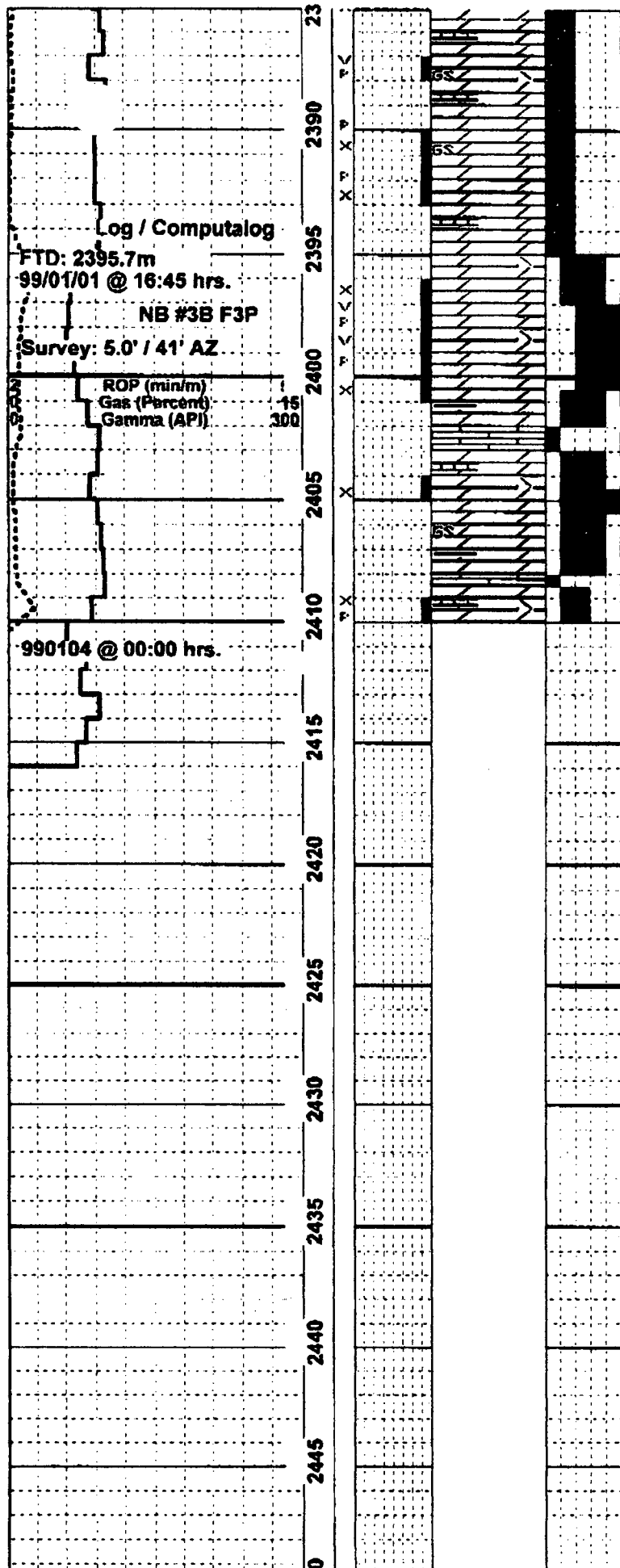
DOL - bf col, f gr, suc tex, hd, sl calc - calc, tr
sity - sity, tr pp vug dsy xl lining, rr bit stng, p -
str por.

LST - dk brn, mx - cx, hd, arg, tr pyr', dns.

DOL - a/a, more wh dsy c xl tr xbit stn, p por.

DOL - lt - m gy & brn, pred f gr, suc tex, hd, lmy,
rr pyr, pres xbit vn & ptg, tr wh Dol spar, rr qtz
prsm - calc rx, str p - rr to fr lxl por.

DOL - a/a, most f gr, abun milky wh m - c sz Dol
spar, p vug - pp por.



DOL - lt - m gy & brn, f - vf gr, sl suc, hd, lmy, com wh m - c Dol spar, p por, tr LST strgr.

DOL - lt - m gy & brn, f - vf gr, abun wh Dol spar, tr clr qtz & rx calc, tr chiky lmy str, rr xbit, p pos' fr vug - pp por.

DOL - wh / m gy col arg bit stn str, f - m gr, hd, rr cir vit qtz - rx calc, tr - p ixl - pp por.

DOL - wh - lt gy col, m - c xl, hd, sl lmy, pres m - dk gy arg bit discol on dsy xl, p vug - pp por
LST - m - dk brn' gy col, mx, blk, hd, sl arg, sl dol, rr pyr', dns.

DOL - lt - m lt brn' gy col, f - m grst, hd, sl arg, lmy, tr fos - Pel, pres (20%) m - dk gy col arg bit stng, p - tr ixl por.



DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD.
 WELL NAME: Cdn Forest et al Flett Rapids
 LOCATION: 1-61-60-50-123-15
 CONTRACTOR: NABORS Rig #24
 REPORTED BY : Adrian Pristolnicu & Victor Matusovsky
 OPERATION: Drilling

DATE: Jan 02/99
 DAY # 43
 REPORT # 37
 TIME: 00:00
 DEPTH: 2395 m
 PROGRESS: 75m

BACKGROUND GAS:

DEPTH - INTERVAL (m)	TOTAL % HYDRO.	C1 (%)	C2 (%)	C3 (%)	C4 + C5 (%)	CO2 (%)
2320 - 2395	0.79 - 0.10	0.78 - 0.10	tr	0	0	0.02

PRODUCED GAS: (Trip Gas, Connection Gas, etc...) (%)

TYPE	Depth (m)	Total Gas / Backgr. / Time pumps off		
Connection Gas	2324	11.44	0.28	5 min
Survey Gas	2333	10.14	0.27	40 min
Connection Gas	2343	2.18	0.26	3 min
Connection Gas	2362	3.11	0.2	4 min
Survey Gas	2372	10.56	0.18	45 min
Connection Gas	2382	5.32	0.15	5 min
Wiper - Trip Gas	2395	32.87	0.2	150 min

GAS SHOWS: (max/loc.background)

DEPTH - INTERVAL (m)	TOTAL (%) HYDRO.	C1 (%)	C2 (%)	C3 (%)	IC4 + NC4 (%)	IC5 + NC5 (%)

COMMENTS:

JAN-05-1999 08:37

403 292 8145

P.17

DAILY DRILLING REPORT

WELL NAME: CDN FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

DATE: 99/01/04

U.W. 001616050123150

CPA NO.:

DAY: 52

OFFICE SUPERVISOR: Mickey Sutherland

CONTRACTOR: Nabors Drlg.

RIG #: 24E

KB: 262.5 m KB-GL: 7.5 m

GL: 255.0 m KB-CF: 6.9 m

LICENCE NO.: WID#1851

SPUD DATE: 98/11/13 @ 12:15 hrs.

RIG RELEASE: @ : hrs.

WELL STATUS:

WEATHER: Snow

TEMP: -19 °C

FINAL TD: m

FORMATION:

Midnight DEPTH: 2411.00 m

PROGRESS: 16.00 m

PBTD: m

FORMATION:

8:00 a.m. DEPTH: 2434.00 m

8:00 a.m. OPERATION: Drilling 215.9mm hole @ 4.3m/hour.

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 110781 CUMULATIVE COST: \$ 3718072

1 215.9mm bit	1 172mm bitsub	1 monel DC	1 monel DC	1 shock sub
1 R 3	1 168mm DC	1 R 3	1 168mm DC	1 jar
14 168mm DC	1 X/O sub	9 HW/DP		

TOTAL ROTATING HOURS: 615.75

LENGTH: 256.40 m WT. BELOW JARS: 8000 daN JAR HRS: 84.2 JAR SERIAL #: 10708

WT. ON BIT: 16000 daN

ROTARY RPM: 60

STRING WT.: 100000 daN

DRILL PIPE O.D.: 127 THREAD: 114 IF

DRILL COLLARS O.D.: 168 THREAD: 127mmH-90

NO. IN HOLE: 18

B
H
A

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT								REMARKS	
					1	2	3	IN	OUT			DRL	RMD	WTdaN	RPM	I	O	D	L	B	G	O	R		
1B	215.9	REED	TC1097	HP-11	7.9	7.9	7.9	2073	2083	10	4.0	2.50		6-10	60	2	2	WT	A	E	1	NO	BHA		
2B	215.9	SEC	680230	GS84F	7.9	7.9	7.9	2083	2395	312	4.0	77.25		12-16	60	7	8	BT	A	F	7	RG	Log		
3B	215.9	Smith	LS0830	F3P	8.7	8.7	8.7	2395		16	4.6	3.50	2.50	16-17	60										

LAST PIPE TALLY: 2396.70

BOARD: 2395.70

CORRECTION: YES [] NO [X]

M
U
D

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Dried. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	CI ppm	Ca ppm	ALKALINITY		°C IN/OUT
															MFI	MFO	
63	1150/1150	9.3	6.0	0.5	25/ 16.5	5.0/12.	80.00		10.00	70		10000	1000	60	0.2	1.3	47/ 49
	/				/	/											/
CENTRIFUGE				DESILTER				DESANDER				DEGASSER				TOTAL MUD DUMPED	
4 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3	

P
U
M
P

PUMP NO. 1					PUMP NO. 2					PRESSURE		ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	IPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP	
Emsco	140	254	80	0.94	Emsco	140	254			6700	39.3	65.1	87.5	77.03	

SURVEYS			TIME BREAKDOWN			MUD ADDITIVES		
AZIMUTH			DRILLING	3.50	SURVEYING	Barite		
° @ m			RIG SERV	0.50	SAFETY MTG	Sod Sulf		
° @ m			TRIPPING	4.50	HNDL TOOLS	Soda Ash		
° @ m			CIRCULATE	1.75	PRESS TEST	Bldg.rent	1	
° @ m			CEMENTING		REPAIRS	Chemcide		
° @ m			CLN TO BTM		BOP DRILL	Driscac re		
° @ m			SLIP & CUT		LOGGING	Starpac		
° @ m			REAMING	2.50		Gel Nat		
° @ m						Lignite		
° @ m						Corinox		
° @ m						Kelzan		
° @ m						Caustic		
			TOTAL HOURS: 24.00					

MUD COMMENTS: Running barite recovery system.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.03 @ 00:00 Hours.

Logged with Computalog. Log run #2: EMI from 2395-2067mKB.

Log run #3: DLL/MSFL/GR from 2395-2066mKB. Ran in hole.

Circulated at 900 and 1800mKB. Washed and reamed to bottom.

Drilled 215.9mm hole from 2395mKB with rig services and

safety meetings as required to 24:00 hours 1999.01.03.

Note #1: Held daily meeting with both crews.

Topics: (a) Monitoring trip tank while logging.

(b) Loader safety.

#2: Had 18m under gauge hole to ream from under gauge bit.

SUPERVISOR: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD#:

DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD.	DATE: Jan 04/99
WELL NAME: Cdn Forest et al Flett Rapids	DAY #: 45
LOCATION: 1-61-60-50-123-15	REPORT #: 38
CONTRACTOR: NABORS Rig#24	TIME: 00:00
REPORTED BY: Adrian Pristolnicu	DEPTH: 2410 m
Victor Matusovsky	PROGRESS: 15 m
OPERATION : Drilling	1%=100u=10000ppm

BACKGROUND GAS:

DEPTH (m) INTERVAL	TOTAL(%) HYDROCARB	C1 (%)	C2 (%)	C3 (%)	C4+C5 (%)	CO2 (%)
2395 - 2410	0.89 - 0.30	0.89- .30	tr	0	0	.04

PRODUCED GAS: (Trip Gas, Connection Gas, etc.)

TYPE	DEPTH (m)	(%) TOTAL	(%) BACKGROUND	TIME PUMPS OFF
Trip Gas	2368	19.00 /	0.28	/ 1320min

GAS SHOWS: (max/log.background)

DEPTH (m) INTERVAL	MAXIMUM HYDR. (%)	C1 (%)	C2 (%)	C3 (%)	IC4+NC4 (%)	IC5+NC5 (%)

COMMENTS -

VERSION INFORMATION

VERS. 2.0: CWLS LOG ASCII STANDARD -VERSION 2.0
 IRA NO: ONE LINE PER DEPTH STEP

NOTE: This file conforms to the LAS 2.0 standard and may contain entries in the header and data sections that are not compatible with previous versions of LAS software.

WELL INFORMATION BLOCK

WELL UNIT	DATA	DESCRIPTION OF MNEMONIC
STRT.M	2395.0000	: START DEPTH
STOP.M	2410.0000	: STOP DEPTH
STEP.M	0.0000	: STEP LENGTH
NULL.	-999.2500	: NULL VALUE
COMP.	Canadian Forest Ltd.	: COMPANY
WELL.	Cdn Fr et al Flett Rapids	: WELL
FIELD.	<NOT AVAILABLE>	: FIELD
LOC.	I-61-60-50-123-15	: LOCATION
SVC.		: SERVICE COMPANY
DATE.	01-JAN-1999	: LOG DATE
WI.	<NOT AVAILABLE>	: UNIQUE WELL ID

CURVE INFORMATION

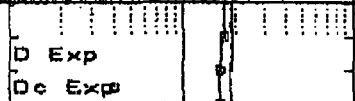
WELL UNIT	API CODE	CURVE DESCRIPTION
MEAS.M		: 1 BL Hole Depth
DX		: 2 DO D Exp
DXC		: 3 DP Dc Exp

OTHER DATA

Produced by QLOG (c)1991-1999 Datalog Technology Inc.

QLOG/LAS \$Revision: 2.5 \$

DMEA	DX	DXC
2395.000	1.8800	1.7100
2400.000	1.9000	1.7300
2405.000	1.9200	1.6600
2410.000	1.8900	1.6400

- Rep min/m 0 30 Comment 1	R Depth Tick	Interp Lith	- C1 x 0.001 <-> 100 - C2 x 0.001 <-> 100 - C3 x 0.001 <-> 100 - C4 x 0.001 <-> 100 - NC4 x 0.001 <-> 100 - 125 x 0.001 <-> 100 - NC5 x 0.001 <-> 100 - C02 x 0.001 <-> 100 - Total Bas Crmt x 0.001 <-> 100 Comment 2	- D Exp 0.1 <-> 10 - Dc Exp 0.1 <-> 10
			Note 12.87 10.20 15min 	

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 04, 1999
REPORT TO: James Taylor

WELL REPORT NO. 52
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-600-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS 1-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 52

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2411 (2373.7 TVD) m K.B.

FORMATION: ARNICA Dolomite

24 HOUR PROGRESS: 16 m

AVERAGE DRILLING RATE: 4.5 m/hr.

00:00 HOUR STATUS: Drilling 216mm hole.

05:00 HOUR DEPTH: 2429 (2391.6 TVD) m

FORMATION: ARNICA Dolomite

CURRENT DRILLING RATE: 4.5 m/hr.

05:00 HOUR STATUS: Drilling 216mm hole.

WEATHER: Windy, swirling snow, a daytime High of - 20 degrees C., & an overnight Low of - 21 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Logged / Computalog. R/H / bit to 2343, ream undergauge hole. Drill ahead 216mm hole.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: Drill ahead 216mm hole.

SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES: Density: 1150 kg/m³ Viscosity: 63 s/L Water Loss: 6.0 cm³/30 min
pH: 9.3 F.C.: .5 mm Temp: 47 deg C.

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAILANNI	- 1974	2068	2035.7	-1773.2	+ 201
Intermediate Casing	- 1975	2067.7	2035.3	-1772.8	+ 202
HEADLESS	- 2148	2177	2141.5	- 1879.0	+ 269
ARNICA	- 2182	2213	2176.9	- 1914.4	+ 268
L. DEV. SOMBRE	- 2425				
CAMSELL	-2460				
ROOT RIVER	- 2560				
THRUST FAULT	- 2624				
SIL/ORD. MOUNT KINDIE	- 2690				
ORD. LITTLE DOCTOR	- 2860				
FRANKLIN MTN.	- 2880				
CAMBRIAN SS.	- 2890				

CUMULATIVE Well Cost To Date: \$ 3,718,072 (99/01/04)
\$ 3,607,291 (99/01/03)

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 03, 1999
REPORT TO: James Taylor

WELL REPORT NO. 51
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-800-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS 1-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 51

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL.)

00:00 HOUR DEPTH: 2395.7 (2358.4 TVD) m K.B.

FORMATION: ARNICA Dolomite

24 HOUR PROGRESS: NA

AVERAGE DRILLING RATE: NA

00:00 HOUR STATUS: Log / Computalog - EMI.

05:00 HOUR DEPTH: 2395.7 (2358.4 TVD) m

FORMATION: ARNICA Dolomite

CURRENT DRILLING RATE: NA

05:00 HOUR STATUS: Log / Computalog - DLL.

WEATHER: Cloudy, snow flurries, with a daytime High of - 17 degrees C. , & an overnight Low of - 21 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Wiper tripped, circulated & conditioned hole. Logged / Computalog.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: Log with Computalog. WOO.

SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES: Density: 1110 kg/m3 Viscosity: 55 s/L Water Loss: 8.0 cm3/30 min
pH: 10.0 F.C.: .5 mm Temp: 53 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2068	2035.7	-1773.2	+ 201
Intermediate Casing	- 1975	2067.7	2035.3	-1772.8	+ 202
HEADLESS	- 2148	2177	2141.5	- 1879.0	+ 269
ARNICA	- 2182	2213	2176.9	- 1914.4	+ 268
L. DEV. SOMBRE	- 2425				
CAMSEIL	-2460				
ROOT RIVER	- 2560				
THRUST FAULT	- 2624				
SIL/ORD. MOUNT KINDLE	- 2690				
ORD. LITTLE DOCTOR	- 2860				
FRANKLIN MTN.	- 2880				
CAMBRIAN SS.	- 2890				

CUMULATIVE Well Cost To Date: \$ 3,607,291 (99/01/03)
\$ 3,570,422 (99/01/02)

DAILY DRILLING REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/02	
U.I. 3001616050123150		CPA NO.:		DAY: 50	
OF. SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drlg.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Clear		TEMP: -33 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 2395.00 m		PROGRESS: 71.00 m		PBTD: m FORMATION:	
8:00 a.m. DEPTH: 2395.00 m		8:00 a.m. OPERATION: Circulate and condition hole for logging.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 33749 CUMULATIVE COST: \$ 3570422

1 215.9mm bit	1 172mm bitsub	1 monel DC	1 monel DC	1 shock sub
1 R 3	1 168mm DC	1 R 3	1 168mm DC	1 jar
14 168mm DC	1 X/O sub	9 HW/DP		
LENGTH: 256.40 m WT. BELOW JARS: 8000 daN JAR HRS: 78.2 JAR SERIAL #: 10708				

TOTAL ROTATING HOURS: 612.25

WT. ON BIT: 16000 daN ROTARY RPM: 60 STRING WT.: 100000 daN
 DRILL PIPE O.D.: 127 THREAD: 114 IF DRILL COLLARS O.D.: 168 THREAD: 127mmH-90 NO. IN HOLE: 18

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT					REMARKS			
					1	2	3	IN	OUT			DRL.	RMD	WTdaN	RPM	I	O	D	L	B			G	O
9RR	311.0	RBI	LH1400	C2	15.9	15.9	15.9	2073	2073	0					1-3		4	4	WT	A	E	3	WT	LOG
1B	215.9	REED	TC1097	HP-11	7.9	7.9	7.9	2073	2083	10	4.0	2.50			6-10	60	2	2	WT	A	E	1	NO	BHA
2B	215.9	SEC	680230	GS84F	7.9	7.9	7.9	2083		312	4.0	77.25			12-16	60								

LAST PIPE TALLY: 1856.06

BOARD: 1855.17

CORRECTION: YES [X] NO []

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP		GELS O/10	Tot. Sol. kg/m3	Drid. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY		°C IN/OUT
																MFI	MFO	
45	1105/1105	10.5	7.0	0.5	15/	6.0	3.0/4.0	60.00	127.00	20.00	60		8000.	1000	40	0.5	1.3	50/ 55
	/				/		/											/
CENTRIFUGE					DESILTER				DESANDER			DEGASSER				TOTAL MUD DUMPED		
38	HR IN	kg/m3	OUT	kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	HR OUT		kg/m3	m3				

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MPa	DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	140	254	80	0.94	Emsco	140	254			7400	39.3	65.1	106.1	108.87

SURVEYS			TIME BREAKDOWN				MUD ADDITIVES	
AZIMUTH			DRILLING	15.00	SURVEYING	1.50	Trucking	
5.25 ° @ 2320.00 m	6.00		RIG SERV	0.25	SAFETY MTG	0.25	Sod Sulf	3
5.25 ° @ 2359.00 m	20.00		TRIPPING	2.00	HNDL TOOLS		Soda Ash	
° @ m			CIRCULATE	5.00	PRESS TEST		Bldg.rent	
° @ m			CEMENTING		REPAIRS		Chemcide	1
° @ m			CLN TO BTM		BOP DRILL		Drispac re	2
° @ m			SLIP & CUT		LOGGING		Starpac	4
° @ m			REAMING				Gel Nat	20
° @ m							Lignite	3
° @ m							Corinox	3
° @ m							Kelzan	2
° @ m							Caustic	2
			TOTAL HOURS: 24.00					

MUD COMMENTS: Ran barite recovery system till 1900 hr.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1999.01.01 @ 00:00 Hours. Drilled 215.9mm hole from 2324mKB kg/m3 to 24:00 hours 1999.01.01.
 with directional surveys, rig services, safety meetings as required, to 2395mKB. Circulated and conditioned hole for logging. Pulled a 12 stand wiper trip. Hole was good on the wiper trip, .5m fill. 32.87% gas on bottoms up after the wiper trip. Mixed barite to increase mud density to 1100

SUPERVISOR: D.Solberg/M.Rogerson

PHONE #: (600) 700-2629

CALLING CARD #:

DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD.	DATE: Jan 02/99
WELL NAME: Cdn Forest et al Flett Rapids	DAY #: 43
LOCATION: 1-61-60-50-123-15	REPORT #: 37
CONTRACTOR: NABORS Rig#24	TIME: 00:00
REPORTED BY: Adrian Pristolnicu	DEPTH: 2395 m
Victor Matusovsky	PROGRESS: 75 m
OPERATION : Drilling	1%=100u=10000ppm

BACKGROUND GAS:

DEPTH (m) INTERVAL	TOTAL(%) HYDROCARB	C1 (%)	C2 (%)	C3 (%)	C4+C5 (%)	CO2 (%)
2320 - 2395	0.79 - 0.10	0.78- .10	tr	0	0	.03

PRODUCED GAS: (Trip Gas, Connection Gas, etc.)

TYPE	DEPTH (m)	(%) TOTAL	(%) BACKGROUND	TIME PUMPS OFF
Connection Gas	2324	11.44 /	0.28 /	5 min
Survey Gas	2333	10.14 /	0.27 /	40 min
Connection Gas	2343	2.18 /	0.26 /	3 min
Connection Gas	2362	3.11 /	0.20 /	4 min
Survey Gas	2372	10.56 /	0.18 /	40 min
Connection Gas	2382	5.32 /	0.15 /	5 min
Wiper-Trip Gas	2395	32.87 /	0.20 /	150min

GAS SHOWS: (max/loc.background)

DEPTH (m) INTERVAL	MAXIMUM HYDR. (%)	C1 (%)	C2 (%)	C3 (%)	IC4+NC4 (%)	IC5+NC5 (%)

COMMENTS -

REF.	NAME OR PROJECT	DETAILS OF MEETINGS - AGREEMENTS - DECISIONS	TIME DATE
41			
42			
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100			

TO: DAVE ANDERSON

Dec. 22 - 31/98

BIG RIVER 16-28-50-9WS PILE LINE CONST.

ROW CLEARING TO TOTAL = 30' (EST.)

FALL & SKID TREES

STUMP & PILE

BURN BRUSH PILES

GRADE R.O.W.

SHUT DOWN JAN 1-2-3/99

STARTED UP JAN 4/99 DOING SAME AS

PREVIOUS

ALLS

Joe

Date

VERSION INFORMATION

VERS: 2.0: CWLS LOG ASCII STANDARD -VERSION 2.0
 MAP: NO: ONE LINE PER DEPTH STEP

NO This file conforms to the LAS 2.0 standard and may contain entries in the header and data sections that are not compatible with previous versions of LAS software.

WELL INFORMATION BLOCK

WELL UNIT	DATA	DESCRIPTION OF MNEMONIC
STRT.M	2320.0000	: START DEPTH
STOP.M	2395.0000	: STOP DEPTH
STEP.M	0.0000	: STEP LENGTH
NULL.	-999.2500	: NULL VALUE
COMP.	Canadian Forest Ltd.	: COMPANY
WELL.	Cdn Forest et al Flett Rapids	: WELL
FIELD.	<NOT AVAILABLE>	: FIELD
LOC.	1-61-60-50-123-15	: LOCATION
SERV.		: SERVICE COMPANY
DATE.	31-DEC-1998	: LOG DATE
WID.	<NOT AVAILABLE>	: UNIQUE WELL ID

CURVE INFORMATION

WELL UNIT	API CODE	CURVE DESCRIPTION
DMEA.M		: 1 BL Hole Depth
DX .		: 2 DO D Exp
DXC .		: 3 DP Dc Exp

OTHER DATA

Produced by QLOG (c)1991-1999 Datalog Technology Inc.

QLOG/LAS \$Revision: 2.5 \$

DMEA	DX	DXC
2320.000	1.8000	1.6300
2325.000	1.7100	1.5500
2330.000	1.6800	1.5200
2335.000	1.7500	1.5800
2340.000	1.8100	1.5400
2345.000	1.6800	1.5200
2350.000	1.7800	1.6100
2355.000	1.7800	1.6100
2360.000	1.7800	1.6100
2365.000	1.7300	1.5700
2370.000	1.7900	1.6200
2375.000	1.8400	1.6600
2380.000	1.8200	1.6500
2385.000	1.8600	1.6900
2390.000	1.8400	1.6600
2395.000	1.8800	1.7100

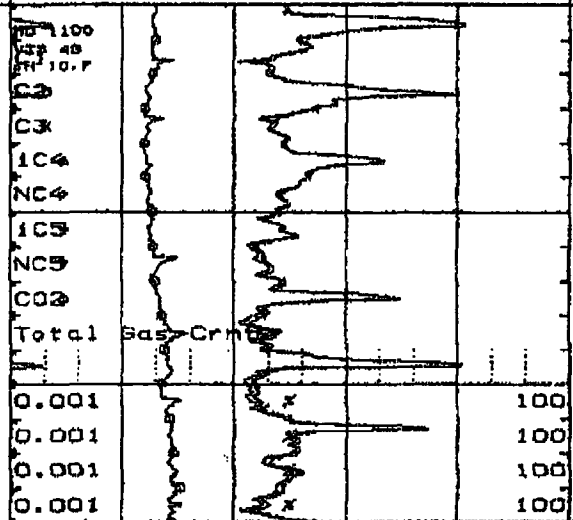
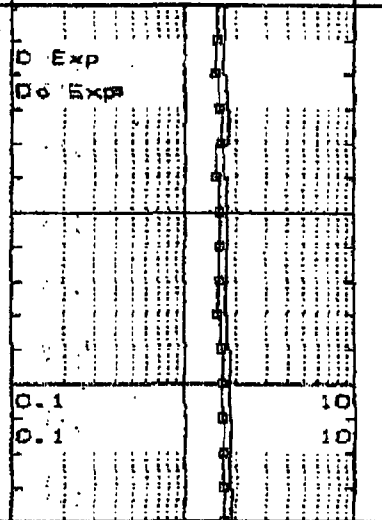


**DYNAMIC DRILLING FLUIDS
INTERNATIONAL LTD.**

DRILLING MUD REPORT

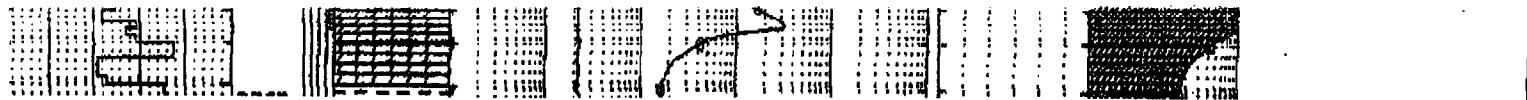
Date 99-01-01 Check No. 503

OPERATOR: <u>CANADIAN FOREST OIL LTD</u>		CONTRACTOR: <u>NABORS DRILL</u>		RIG NO: <u>241</u>	
REPORT FOR: <u>MURRAY ROGERSON</u>		REPORT FOR: <u>RAY CHANDONNET</u>		SPUD DATE: <u>98-11-13</u>	
WELL NAME: <u>CDN FOREST OIL FLEET RIGS</u>		LOCATION: <u>I-61</u>		DAYS FROM SPUD: <u>49</u>	
BIT DATA		DRILL STRING		CASING	
SIZE (mm): <u>215.9</u>	TYPE: <u>SGP4F</u>	D.P. SIZE: <u>127</u> mm	LENGTH: <u>137</u> m	SURF: <u>339</u> mm AT <u>568</u> m	IN HOLE: <u>83</u>
DFPTH IN: <u>20.23</u> m	R.P.M: <u>55/40</u>	mm LENGTH: <u>137</u> m		INT: <u>244.8</u> mm AT <u>206.8</u> m	IN TANKS: <u>83</u>
W.O.B. (daN) (FORCE): <u>16/17000</u>	D.C. SIZE: <u>168</u> mm	LENGTH: <u>137</u> m		INT: <u>mm</u> AT <u>mm</u> m	TOTAL: <u>166</u>
NOZZLE SIZE (mm): <u>3/7.9</u>	BHA: <u>mm</u> LENGTH: <u>256</u> m			LINER: <u>mm</u> AT <u>mm</u> m	IN STORAGE:
PUMP AND CIRCULATION DATA			EQUIPMENT		
PUMP	#1	#2	ANNULAR VELOCITY	SOLIDS CONTROL	FLOWLINE
MODEL	<u>F-1000</u>		D.P. & HOLE: <u>39</u> m/min		LINEAR FLOW: <u>1200</u> kg/m ³
LINER (mm)	<u>140</u>		D.P. & CSG: <u>36</u> m/min		LINEAR FLOW: <u>1200</u> kg/m ³
STROKE (mm)	<u>254</u>		D.C. (0.4 mm): <u>64.7</u> m/min		LINEAR FLOW: <u>1200</u> kg/m ³
STROKE/min	<u>80</u>		D.C. (0.5 mm): <u>51.5</u> m/min		LINEAR FLOW: <u>1200</u> kg/m ³
L/STROKE	<u>11.69</u>		CIRCULATION TIMES	CURRENT OPERATION AND REMARKS:	
L/min	<u>934</u>		BOTTOMS UP: (min) <u>66</u>	<u>DRILL MUD</u>	
m ³ /min	<u>934</u>		MUD CYCLE: <u>177</u>		
STANDPIPE PRESSURE (kPa) □ (MPa) <u>7500</u>					
SAMPLE FROM FLOWLINE □ TANK			RECOMMENDED TREATMENT: <u>WHILE DRILL MAINTAIN</u>		
FLOWLINE TEMP: <u>55°C / 50°C</u>			MUD PROPERTIES		
DEPTH (m): <u>2332</u>			① pH AT 10.5 WITH CALCIUM/LIME IN A 1:1 RATIO.		
FUNNEL VISCOSITY (cP) at °C: <u>45</u>			② FLUID LOSS AT 6-8cc/30min WITH DRILLPAC/STARPAC IN A 1:2 RATIO.		
DENSITY (kg/m ³): <u>1105</u>			③ VISCOSITY AT 48-50 sec/LIT WITH PREMIX.		
PLASTIC VISCOSITY (mPa.s) at °C: <u>15</u>			④ WEIGHT AT 1100 kg/m ³ WITH		
YIELD POINT (Pa): <u>6</u>			(a) CENTRIFUGE ON BARITE RECD.		
GEL STRENGTH (Pa) 10s/10 min: <u>314</u>			(b) POTASSIUM WATER AT 10 LIT/min		
pH □ STRIP □ METER: <u>10.5</u>			(c) BARITE AS REQUIRED.		
FILTRATE (cm ³ /30 min at 700 kPa): <u>7</u>			NOTE - Dewater only upon DRILL		
CAKE THICKNESS (mm): <u>.5</u>			ENGINEER'S REQUEST.		
SAND CONTENT (Vol. Fraction) □ SAND: <u>.001</u>			ADD DAILY. ① 1 CHEMICIDE/12 HRS		
SOLIDS CONTENT (Vol. Fraction) □ SOLIDS: <u>.06</u>			② 1 CORNOX/1 SULTEX/12 HRS.		
M.B.T. (Bent. Equiv.) (kg/m ³): <u>60</u>			③ 10 GEL/1 KENZAN To ACTIVE		
OIL CONTENT (Vol. Fraction): <u>100/3000</u>			SYSTEM 124 HRS. THANK YOU.		
ALKALINITY FILTRATE pH: <u>5.43</u>			TKS		
CALCIUM (mg/L): <u>40</u>					
CHLORIDES (mg/L): <u>1000</u>					
POLYMER (kg/m ³): <u>1.5</u>					
K ⁺ Ion: <u>2000</u>					
SULFITE: <u>200</u>					
LOW GRAVITY SOLIDS: <u>170</u>					
DRILLED SOLIDS: <u>127</u>					
BENTONITE: <u>93</u>					
WAREHOUSE			MUD ENGINEER		
<u>FT. NELSON - PHONE 785-4222</u>			<u>554-4773</u>		
			<u>ED SODERBERG - 4653</u>		

- Rep min/m 0.1 -> 30 Cor. at 1	R Depth Tick	Interp Litch	- C1 X 0.001 <-> 100 - C2 X 0.001 <-> 100 - C3 X 0.001 <-> 100 - C4 X 0.001 <-> 100 - NC4 X 0.001 <-> 100 - C5 X 0.001 <-> 100 - NC5 X 0.001 <-> 100 - C02 X 0.001 <-> 100 - Total Gas Crmt X 0.001 <-> 100 Comment 2	- D Exp 0.1 <-> 10 - D0 Exp 0.1 <-> 10
January 02 1999 05:02 AM 6602513 0.1 -> 30 0.1 -> 30	2350			

- Rep min 0 <-> 2r				- C1 % 0.001 <-> 100 - C2 % 0.001 <-> 100 - C3 % 0.001 <-> 100 - C4 % 0.001 <-> 100 - NC4 % 0.001 <-> 100 - C5 % 0.001 <-> 100 - NC5 % 0.001 <-> 100 - Hydrocarbons % 0.001 <-> 100 Comment 2 - CO2 % 0.001 <-> 100	- Char R 0 <-> 3	- Wet R 1 <-> 100 - Bul R 1 <-> 100	LithComm 2 Comment 3
Comment 1 repH pH 0 <-> 25 repS SpH 0 <-> 25	Measured & Tvd	Porosity 2	Minerals Oil Shows Interp Lith				

200 100 50 25 12.5 6.25 3.125 1.5625 0.78125 0.390625 0.1953125 0.09765625 0.048828125 0.0244140625 0.01220703125 0.006103515625 0.0030517578125 0.00152587890625 0.000762939453125 0.0003814697265625 0.00019073486328125 0.000095367431640625 0.0000476837158203125 0.00002384185791015625 0.000011920928955078125 0.0000059604644775390625 0.00000298023223876953125 0.000001490116119384765625 0.0000007450580596923828125 0.00000037252902984619140625 0.000000186264514923095703125 0.0000000931322574615478515625 0.00000004656612873077392578125 0.000000023283064365386962890625 0.0000000116415321826934814453125 0.00000000582076609134674072265625 0.000000002910383045673370361328125 0.0000000014551915228366851806640625 0.00000000072759576141834259033203125 0.000000000363797880709171295166015625 0.0000000001818989403545856475830078125 0.00000000009094947017729282379150390625 0.000000000045474735088646411895751953125 0.0000000000227373675443232059478759765625 0.00000000001136868377216160297393798828125 0.000000000005684341886080801486968994140625 0.000000000002842170943040400743484497072265625 0.0000000000014210854715202003717422485361328125 0.00000000000071054273576010018587112426806640625 0.000000000000355271367880050092935562134033203125 0.0000000000001776356839400250464677810670166015625 0.00000000000008881784197001252323389053350830078125 0.000000000000044408920985006261616945266754150390625 0.0000000000000222044604925031308084726333770751953125 0.00000000000001110223024625156540423631668853798828125 0.000000000000005551115123125782702118158334429497072265625 0.0000000000000027755575615628913510590791672147485361328125 0.00000000000000138777878078144567552953958360737426806640625 0.000000000000000693889390390722837764769791803687134033203125 0.0000000000000003469446951953614188823848959018435670166015625 0.00000000000000017347234759768070944119244795092178350830078125 0.000000000000000086736173798840354720596223975460891754150390625 0.000000000000000043368086899420177360298111987730445877072265625 0.0000000000000000216840434497100886801490559938672229385361328125 0.00000000000000001084202172485504434007452799693361146926806640625 0.000000000000000005421010862427522170037263998466805734634033203125 0.0000000000000000027105054312137610850186319992334028673170166015625 0.00000000000000000135525271560688054250931599961670143365850830078125 0.000000000000000000677626357803440271254657999808350716829254150390625 0.000000000000000000338813178901720135627328999904175358414627072265625 0.0000000000000000001694065894508600678136644999520876792073135361328125 0.00000000000000000008470329472543003390683224997604383960365676806640625 0.000000000000000000042351647362715016953416124988021919801828384033203125 0.0000000000000000000211758236813575084767080624940109599009141920166015625 0.00000000000000000001058791184067875423835403124700547995045709600830078125 0.000000000000000000005293955920339377119177015623502739975228548004150390625 0.0000000000000000000026469779601696885595885078117513699876142740020751953125 0.000000000000000000001323488980084844277794253905875684993807137001037598828125 0.0000000000000000000006617444900424221388971269529378424969035685005187994150390625 0.0000000000000000000003308722450212	Char R		DOL: wh - prsr (2307) dk gy - blk hrs vein, m - o xl, sl imp tr dwp pp - mg xl ldnng, p - tr fr ls - ss - wd par. LST: sl - m gy brn col, ex - tr chiky Pul - Pul phst, hd, dol, sl arg, dnc.	
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RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-161-6050-12315-0

AFE #: A983002

PAGE: 1/ 6

DATE: J1/02

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: October, 1998																DATE OFF LEASE	REMARKS					
			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
S	Badger Rentals	100Bbl water tank		0	85	0	98/11/01																						
S	Calmont Leasing	Eng truck rental		0	75	0	98/10/28													U	U	U	U						
S	Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																						Dewatering tank
S	Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16																						Fresh water
S	Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20																						Fuel spill tank
S	Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09																						
S	Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30															U	U						
D	Faster	Hydraulic jars	10708	0	380	0	98/12/24																						
D	Faster	Hydraulic jars	10159	0	390	0																							98/12/24
D	Faster	Roller reamer	10020	0	35	0	98/12/24																						
D	Faster	Roller reamer	10023	0	35	0	98/12/24																						
D	Faster	Shock sub	10572	0	255	0																							98/12/24
D	Faster	Shock sub	10676	0	185	0	98/12/24																						
D	Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																						
D	Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																						
D	Faster Oilfield	NBR	10053	0	45	0	98/11/10																						
D	Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																						
D	Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																						
D	Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																						98/11/19
D	Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																						98/11/19
D	Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																						98/11/19
S	Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																						
S	Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																						
S	New Beginning	1 Garbage Bin		0	70	0	98/10/27													U	U	U	U	U					
S	New Beginning	2 Ash Bins		0	60	0	98/10/27													U	U	U	U	U					
S	New Beginning	2 Incinerators		0	110	0	98/10/27													U	U	U	U	U					
S	New Beginning	2 Rig mats		0	60	0	98/10/27													U	U	U	U	U					
S	New Beginning	20 3X12 Planks		0	400	0	98/11/09																						
S	New Beginning	Fuel storage tank		0	34	0	98/11/13																						
S	New Beginning	Rig phones		0	50	0	98/11/14																						
S	New Beginning Serv.	2" Flight pump		0	17	0	98/11/09																						
S	Pason Systems Corp.	Pvt.		0	150	0	98/11/11																						
S	Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																						Dewatering tank
O	Weatherford	Fishing tools		0	63	63	98/11/26																						
D	Whipstock	Monel / short	45-022	0	50	0	98/12/24																						
D	Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																						
D	Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19																						



RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-I61-6050-12315-0

AFE #: A983002

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DATE: J1/02

SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
S	Badger Rentals		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Calmont Leasing		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Destiny Oilfield		0	34	0	98/12/21																Dewatering tank	
S	Destiny Oilfield	404	0	34	0	98/11/16																Fresh water	
S	Destiny Oilfield		0	34	0	98/11/20																Fuel spill tank	
S	Dunvegan Rentals	961	0	165	0	98/11/09								U	U	U	U	U	U	U			
S	Dunvegan rentals	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
D	Faster	10708	0	380	0	98/12/24																	
D	Faster	10159	0	390	0																	98/12/24	
D	Faster	10020	0	35	0	98/12/24																	
D	Faster	10023	0	35	0	98/12/24																	
D	Faster	10572	0	255	0																	98/12/24	
D	Faster	10676	0	185	0	98/12/24																	
D	Faster Oilfield	10050	0	45	0	98/11/10																	
D	Faster Oilfield	10158	0	390	0	98/11/10																	
D	Faster Oilfield	10053	0	45	0	98/11/10																	
D	Faster Oilfield	10573	0	255	0	98/11/10																	
D	Faster Oilfield	10304	0	75	0	98/11/10																	
D	Faster Oilfield	2565	0	150	0	98/11/10																98/11/19	
D	Faster Oilfield	45	0	26	0	98/11/10																98/11/19	
D	Faster Oilfield	4157	0	28	0	98/11/10																98/11/19	
S	Lory Oilfield Rentals	L-1808	950	190	150	98/12/16																Transcontinental	
S	Lory Oilfield Rentals	L-1807	950	190	150	98/12/16																98/11/19	
S	New Beginning		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Transcontinental	
S	New Beginning		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U		244.5 mm casing	
S	New Beginning		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning		0	400	0	98/11/09																	
S	New Beginning		0	34	0	98/11/13																	
S	New Beginning		0	50	0	98/11/14																	
S	New Beginning Serv.		0	17	0	98/11/09								U	U	U	U	U	U	U			
S	Pason Systems Corp.		0	150	0	98/11/11																	
S	Streeper Contracting	501	0	26	0	98/12/21																Dewatering tank	
O	Weatherford		0	63	63	98/11/26																	
D	Whipstock	45-022	0	50	0	98/12/24																	
D	Whipstock	15-068	0	260	0	98/12/24																	
D	Whipstock Systems	17-004	0	450	0	98/11/19																	



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WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: November, 1998																										DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31												
Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																										Dewatering tank		
Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16					U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water		
Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank		
Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Faster	Hydraulic jars	10708	0	380	0	98/12/24																												
Faster	Hydraulic jars	10159	0	390	0																											98/12/24		
Faster	Roller reamer	10020	0	35	0	98/12/24																												
Faster	Roller reamer	10023	0	35	0	98/12/24																												
Faster	Shock sub	10572	0	255	0																											98/12/24		
Faster	Shock sub	10676	0	185	0	98/12/24																												
Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																												
Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10								U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Faster Oilfield	NBR	10053	0	45	0	98/11/10																												
Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																												
Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																												
Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10	U	U	U	U	U	U																				98/11/19		
Faster Oilfield	X/O Sub	45	0	26	0	98/11/10	U	U	U	U	U	U																				98/11/19		
Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10	U	U	U	U	U	U																				98/11/19		
Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																												
Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																												
New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	20 3X12 Planks		0	400	0	98/11/09																												
New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																										Dewatering tank		
Weatherford	Fishing tools		0	63	63	98/11/26																												
Whipstock	Monel / short	45-022	0	50	0	98/12/24																												
Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																												
Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19																												



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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: December, 1998															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21																Dewatering tank	
Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water	
Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank	
Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Faster	Hydraulic jars	10708	0	380	0	98/12/24																	
Faster	Hydraulic jars	10159	0	390	0									U	U	U	U	U	U	U	98/12/24		
Faster	Roller reamer	10020	0	35	0	98/12/24																	
Faster	Roller reamer	10023	0	35	0	98/12/24																	
Faster	Shock sub	10572	0	255	0		U	U	U	U	U				U	U	U	U	U	U	98/12/24		
Faster	Shock sub	10676	0	185	0	98/12/24																	
Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10	U	U	U	U	U	U											
Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10	U	U	U	U	U	U											
Faster Oilfield	NBR	10053	0	45	0	98/11/10	U	U	U	U	U	U											
Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10	U																
Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10	U	U	U	U	U	U											
Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10															98/11/19	Transcontinental	
Faster Oilfield	X/O Sub	45	0	26	0	98/11/10															98/11/19	Transcontinental	
Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10															98/11/19	Transcontinental	
Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16												U	U	U	U	244.5 mm casing	
Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16													U	U	U	U	
New Beginning	1 Garbage Bin		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Ash Bins		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Incinerators		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	2 Rig mats		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	20 3X12 Planks		0	400	0	98/11/09																	
New Beginning	Fuel storage tank		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning	Rig phones		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21																Dewatering tank	
Weatherford	Fishing tools		0	63	63	98/11/26	U	S	S	S	S	S	S	S	S	S	S	S	S	S			
Whipstock	Monel / short	45-022	0	50	0	98/12/24																	
Whipstock	Monel/single shot	15-068	0	260	0	98/12/24																	
Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19	U	U	U	U	U	U											



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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: December, 1998																					DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
S	Badger Rentals		0	85	0	98/11/01	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Calmont Leasing		0	75	0	98/10/28	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Destiny Oilfield		0	34	0	98/12/21							U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank	
S	Destiny Oilfield	404	0	34	0	98/11/16	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fresh water	
S	Destiny Oilfield		0	34	0	98/11/20	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U		Fuel spill tank	
S	Dunvegan Rentals	961	0	165	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Dunvegan rentals	984	0	185	0	98/10/30	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
D	Faster	10708	0	380	0	98/12/24																							
D	Faster	10159	0	390	0		U	U	U	U	U	U	U	U	U												98/12/24		
D	Faster	10020	0	35	0	98/12/24																							
D	Faster	10023	0	35	0	98/12/24																							
D	Faster	10572	0	255	0		U	U	U	U																		98/12/24	
D	Faster	10676	0	185	0	98/12/24																							
D	Faster Oilfield	10050	0	45	0	98/11/10																							
D	Faster Oilfield	10158	0	390	0	98/11/10																							
D	Faster Oilfield	10053	0	45	0	98/11/10					U	U																	
D	Faster Oilfield	10573	0	255	0	98/11/10																							
D	Faster Oilfield	10304	0	75	0	98/11/10																							
D	Faster Oilfield	2565	0	150	0	98/11/10																					98/11/19	Transcontinental	
D	Faster Oilfield	45	0	26	0	98/11/10																					98/11/19	Transcontinental	
D	Faster Oilfield	4157	0	28	0	98/11/10																					98/11/19	Transcontinental	
S	Lory Oilfield Rentals	L-1808	950	190	150	98/12/16	U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		244.5 mm casing	
S	Lory Oilfield Rentals	L-1807	950	190	150	98/12/16	U	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
S	New Beginning		0	70	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning		0	110	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning		0	60	0	98/10/27	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning		0	400	0	98/11/09																							
S	New Beginning		0	34	0	98/11/13	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning		0	50	0	98/11/14	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	New Beginning Serv.		0	17	0	98/11/09	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Pason Systems Corp.		0	150	0	98/11/11	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U			
S	Streeper Contracting	501	0	26	0	98/12/21							U	U	U	U	U	U	U	U	U	U	U	U	U	U		Dewatering tank	
O	Weatherford		0	63	63	98/11/26	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S			
D	Whipstock	45-022	0	50	0	98/12/24																							
D	Whipstock	15-068	0	260	0	98/12/24																							
D	Whipstock Systems	17-004	0	450	0	98/11/19																							



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SUPPLIER	RENTAL ITEM	SERIAL NO.	COST			DATE ON LEASE	MONTH: January, 1999															DATE OFF LEASE	REMARKS
			MIN	DLY	STBY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
S Badger Rentals	100Bbl water tank		0	85	0	98/11/01	U																
S Calmont Leasing	Eng truck rental		0	75	0	98/10/28	U																
S Destiny Oilfield	400 Bbl water tank		0	34	0	98/12/21	U																Dewatering tank
S Destiny Oilfield	400Bbl water tank	404	0	34	0	98/11/16	U																Fresh water
S Destiny Oilfield	400Bbl water tank		0	34	0	98/11/20	U																Fuel spill tank
S Dunvegan Rentals	Mud log shack	961	0	165	0	98/11/09	U																
S Dunvegan rentals	Wellsite shack	984	0	185	0	98/10/30	U																
D Faster	Hydraulic jars	10708	0	380	0	98/12/24	U																
D Faster	Hydraulic jars	10159	0	390	0																	98/12/24	
D Faster	Roller reamer	10020	0	35	0	98/12/24	U																
D Faster	Roller reamer	10023	0	35	0	98/12/24	U																
D Faster	Shock sub	10572	0	255	0																	98/12/24	
D Faster	Shock sub	10676	0	185	0	98/12/24	U																
D Faster Oilfield	3PT roller reamer	10050	0	45	0	98/11/10																	
D Faster Oilfield	Hydraulic jars	10158	0	390	0	98/11/10																	
D Faster Oilfield	NBR	10053	0	45	0	98/11/10																	
D Faster Oilfield	Shock Tool	10573	0	255	0	98/11/10																	
D Faster Oilfield	Stabilizer	10304	0	75	0	98/11/10																	
D Faster Oilfield	Stabilizer	2565	0	150	0	98/11/10																98/11/19	Transcontinental
D Faster Oilfield	X/O Sub	45	0	26	0	98/11/10																98/11/19	Transcontinental
D Faster Oilfield	X/O Sub	4157	0	28	0	98/11/10																98/11/19	Transcontinental
S Lory Oilfield Rentals	9 5/8 350 t elevators	L-1808	950	190	150	98/12/16																	244.5 mm casing
S Lory Oilfield Rentals	9 5/8 350 t spider	L-1807	950	190	150	98/12/16																	
S New Beginning	1 Garbage Bin		0	70	0	98/10/27	U																
S New Beginning	2 Ash Bins		0	60	0	98/10/27	U																
S New Beginning	2 Incinerators		0	110	0	98/10/27	U																
S New Beginning	2 Rig mats		0	60	0	98/10/27	U																
S New Beginning	20 3X12 Planks		0	400	0	98/11/09																	
S New Beginning	Fuel storage tank		0	34	0	98/11/13	U																
S New Beginning	Rig phones		0	50	0	98/11/14	U																
S New Beginning Serv.	2" Flight pump		0	17	0	98/11/09	U																
S Pason Systems Corp.	Pvt.		0	150	0	98/11/11	U																
S Streeper Contracting	400 Bbl water tank	501	0	26	0	98/12/21	U																Dewatering tank
O Weatherford	Fishing tools		0	63	63	98/11/26	S																
D Whipstock	Monel / short	45-022	0	50	0	98/12/24	U																
D Whipstock	Monel/single shot	15-068	0	260	0	98/12/24	U																
D Whipstock Systems	Monel/single shot	17-004	0	450	0	98/11/19																	



DRILLING

Supplier sequence

RENTAL EQUIPMENT REPORT

WELLNAME: CDN. FOREST et al FLETT RAPIDS I-61

LOCATION: 300-I61-6050-12315-0

AFE #: A983002

PAGE: 7/ 6

DATE: 01/02

Total cost, surface:	73734
down-hole:	29145
other:	2268
all:	105147

DRILLING RENTAL EQUIPMENT SUMMARY - Surface/Downhole sequence

Date: 99/01/02, 06:18

CDN. FOF at al FLETT RAPIDS I-61
300-I61-6050-12315-0

SURF				DAILY	STANDBY	MIN	DATE		DATE	DAYS	TO
DHOLE	ITEM	SUPPLIER	SERIAL #	COST	COST	COST	RECEIVED-TICKET		RETURNED-TICKET	USED	CO
S	1 Garbage Bin	New Beginning		70	0	0	98/10/27 4610			67	
S	100Bbl water tank	Badger Rentals		85	0	0	98/11/01 5992			62	
S	2 Ash Bins	New Beginning		60	0	0	98/10/27 4610			67	
S	2 Incinerators	New Beginning		110	0	0	98/10/27 4610			67	
S	2 Rig mats	New Beginning		60	0	0	98/10/27 4610			67	
S	2" Flight pump	New Beginning Serv.		17	0	0	98/11/09 63321			54	
S	20 3X12 Planks	New Beginning		400	0	0	98/11/09 63321			1	
S	400 Bbl water tank	Destiny Oilfield		34	0	0	98/12/21 25982			12	
S	400 Bbl water tank	Streeper Contracting	501	26	0	0	98/12/21 25982			12	
S	400Bbl water tank	Destiny Oilfield	404	34	0	0	98/11/16 0301			43	
S	400Bbl water tank	Destiny Oilfield		34	0	0	98/11/20 0302			47	
S	9 5/8 350 t elevators	Lory Oilfield Rentals	L-1808	190	150	950	98/12/16 15272			5	
S	9 5/8 350 t spider	Lory Oilfield Rentals	L-1807	190	150	950	98/12/16 15272			5	
S	Eng truck rental	Calmont Leasing		75	0	0	98/10/28			66	
S	Fuel storage tank	New Beginning		34	0	0	98/11/13 3601			49	
S	Mud log shack	Dunvegan Rentals	961	165	0	0	98/11/09 63321			54	
S	Pvt.	Pason Systems Corp.		150	0	0	98/11/11 5824			51	
S	Rig phones	New Beginning		50	0	0	98/11/14			49	
S	Wellsite shack	Dunvegan rentals	984	185	0	0	98/10/30 63317			64	1
O	Fishing tools	Weatherford		63	63	0	98/11/26 15228			5	
D	3PT roller reamer	Faster Oilfield	10050	45	0	0	98/11/10 15210			9	
D	Hydraulic jars	Faster	10159	390	0	0		98/12/24 15292		17	
D	Hydraulic jars	Faster	10708	380	0	0	98/12/24 15272			5	
D	Hydraulic jars	Faster Oilfield	10158	390	0	0	98/11/10 15210			15	
D	Monel / short	Whipstock	45-022	50	0	0	98/12/24 15272			5	
D	Monel/single shot	Whipstock	15-068	260	0	0	98/12/24 15272			5	
D	Monel/single shot	Whipstock Systems	17-004	450	0	0	98/11/19 15212			10	
D	NBR	Faster Oilfield	10053	45	0	0	98/11/10 15210			11	
D	Roller reamer	Faster	10023	35	0	0	98/12/24 15272			5	
D	Roller reamer	Faster	10020	35	0	0	98/12/24 15272			5	
D	Shock sub	Faster	10572	255	0	0		98/12/24 15292		15	
D	Shock sub	Faster	10676	185	0	0	98/12/24 15272			5	
D	Shock Tool	Faster Oilfield	10573	255	0	0	98/11/10 15210			4	
D	Stabilizer	Faster Oilfield	10304	75	0	0	98/11/10 15210			9	
D	Stabilizer	Faster Oilfield	2565	150	0	0	98/11/10 15187		98/11/19 15210	5	
D	X/O Sub	Faster Oilfield	45	26	0	0	98/11/10 15187		98/11/19 15210	5	
D	X/O Sub	Faster Oilfield	4157	28	0	0	98/11/10 15187		98/11/19 15210	5	

Total cost, surface: 7
down-hole: 2
other:
all: 10

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 02, 1999
REPORT TO: James Taylor

WELL REPORT NO. 50
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-600-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS 1-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 50

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2395.7 (2358.4 TVD) m K.B.

FORMATION: ARNICA Dolomite

24 HOUR PROGRESS: 71 m

AVERAGE DRILLING RATE: 4.0 m/hr

00:00 HOUR STATUS: Wiper trip.

05:00 HOUR DEPTH: 2395.7 (2358.4 TVD) m

FORMATION: ARNICA Dolomite

CURRENT DRILLING RATE: NA m / hr.

05:00 HOUR STATUS: Circulate after wiper trip.

WEATHER: Clear, calm, with a daytime High of - 25 degrees C. , & an overnight Low of - 31 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Drilled 216mm hole to TD at 2395m at 16:45 hrs (99/01/01).
Circulated, conditioned hole. Wiper tripped, cleaned to bottom from 2390m, circulated out trip gas & condition hole. Wiper
tripped, circulated & conditioned hole.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: Circulate & condition hole. POOH . log with Computalog..

SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES:

Density: 1110 kg/m3
pH: 10.0

Viscosity: 55 s/L
F.C.: .5 mm

Water Loss: 8.0 cm3/30 min
Temp: 53 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2068	2035.7	-1773.2	+ 201
Intermediate Casing	- 1975	2067.7	2035.3	-1772.8	+ 202
HEADLESS	- 2148	2177	2141.5	- 1879.0	+ 269
ARNICA	- 2182	2213	2176.9	- 1914.4	+ 268
L. DEV. SOMBRE	- 2425				
CAMELL	-2460				
ROOT RIVER	- 2560				
THRUST FAULT	- 2624				
SILVORD. MOUNT KINDLE	- 2690				
ORD. LITTLE DOCTOR	- 2860				
FRANKLIN MTN.	- 2880				
CAMBRIAN SS.	- 2890				

CUMULATIVE Well Cost To Date : \$ 3,570,422 (99/01/02)
\$ 3,535,673 (99/01/01)



DAILY DRILLING REPORT

WF NAME: CDN. FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 99/01/01	
U 3001616050123150		CPA NO.:		DAY: 49	
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drlg.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 255.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Snow		TEMP: -27 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 2324.00 m		PROGRESS: 97.00 m		PBTD: m FORMATION:	
8:00 a.m. DEPTH: 2350.00 m		8:00 a.m. OPERATION: Drilling 215.9mm hole at 5m/hr.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 34931 CUMULATIVE COST: \$ 3536673

1 215.9mm bit	1 172mm bitsub	1 monel DC	1 monel DC	1 shock sub
1 R 3	1 168mm DC	1 R 3	1 168mm DC	1 jar
14 168mm DC	1 X/O sub	9 HW/DP		
LENGTH: 256.40 m WT. BELOW JARS: 8000 daN JAR HRS: 62.2 JAR SERIAL #: 10708				

TOTAL
ROTATING
HOURS: 597.25

WT. ON BIT: 16000 daN

ROTARY RPM: 60

STRING WT.: 98000 daN

DRILL PIPE O.D.: 127 THREAD: 114 IF

DRILL COLLARS O.D.: 168 THREAD: 127mmH-90

NO. IN HOLE: 18

B
H
A

BIT NO.	SIZE mm	MAKE	SERIAL #	TYPE	NOZZLES mm			DEPTH		MTRS	MTRS PER HOUR	HOURS ON BIT		BIT		CUTTING STRUCT										REMARKS
					1	2	3	IN	OUT			DRL.	RMD	WTdaN	RPM	I	O	D	L	B	G	O	R			
9RR	311.0	RBI	LH1400	C2	15.9	15.9	15.9	2073	2073	0					1-3		4	4	WT	A	E	3	WT	LOG		
1B	215.9	REED	TC1097	HP-11	7.9	7.9	7.9	2073	2083	10	4.0	2.50			6-10	60	2	2	WT	A	E	1	NO	BHA		
2B	215.9	SEC	680230	GS84F	7.9	7.9	7.9	2083		241	3.9	62.25			12-16	60										

LAST PIPE TALLY: 1856.06

BOARD: 1855.17

CORRECTION: YES [X] NO []

M
U
D

Viscosity Sec/L	DENSITY IN/OUT	pH	WL cc/30min	FC mm	PV/YP	GELS O/10	Tot. Sol. kg/m3	Drid. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	OIL %	Cl ppm	Ca ppm	ALKALINITY		°C
															MFI	MFO	IN/OUT
45	1100/1100	10.7	8.2	0.5	15/ 8.5	4.0/7.0	60.00		10.00	60		8000.	1000	60	0.6	1.4	52/ 55
	/				/	/											/
CENTRIFUGE					DESILTER			DESANDER			DEGASSER			TOTAL MUD DUMPED			
72 HR IN	kg/m3	OUT	kg/m3		HR OUT	kg/m3		HR OUT	kg/m3		HR OUT	kg/m3		m3			

P
U
M
P

PUMP NO. 1					PUMP NO. 2					PRESSURE	ANNULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/MIN	MODEL	LINER mm	STROKE mm	SPM	m3/MIN		DP m/MIN	DC m/MIN	VELOCITY m/sec.	HHP
Emsco	140	254	80	0.94	Emsco	140	254			7400	39.3	65.1	106.1	108.38

SURVEYS				TIME BREAKDOWN				MUD ADDITIVES	
AZIMUTH				DRILLING	21.25	SURVEYING	1.50	Trucking	1553
7.88 ° @	2246.00 m	357.00		RIG SERV	0.50	SAFETY MTG	0.75	Sod Sulf	2
6.75 ° @	2284.00 m	359.00		TRIPPING		HNDL TOOLS		Soda Ash	
° @	m			CIRCULATE		PRESS TEST		Bldg.rent	1
° @	m			CEMENTING		REPAIRS		Chemcide	2
° @	m			CLN TO BTM		BOP DRILL		Drispac re	2
° @	m			SLIP & CUT		LOGGING		Starpac	4
° @	m			REAMING				Gel Nat	8
° @	m							Pallets	49
° @	m							Corinox	2
° @	m							Kelzan	1
° @	m							Caustic	2
				TOTAL HOURS: 24.00					

MUD COMMENTS: Running barite recovery system.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

98/12/31@ 00:00 hours. Drilled 215.9 mm hole with safety meetings, rig services and directional surveys as required from 2227 mKB to 2324 mKB at 24:00 hours 1998.12.31.

Note: Held daily meeting with crews. Topics: A) Drilling breaks and kick signs. B) Air packs.

SUPERVISOR: D.Solberg/M.Rogerson

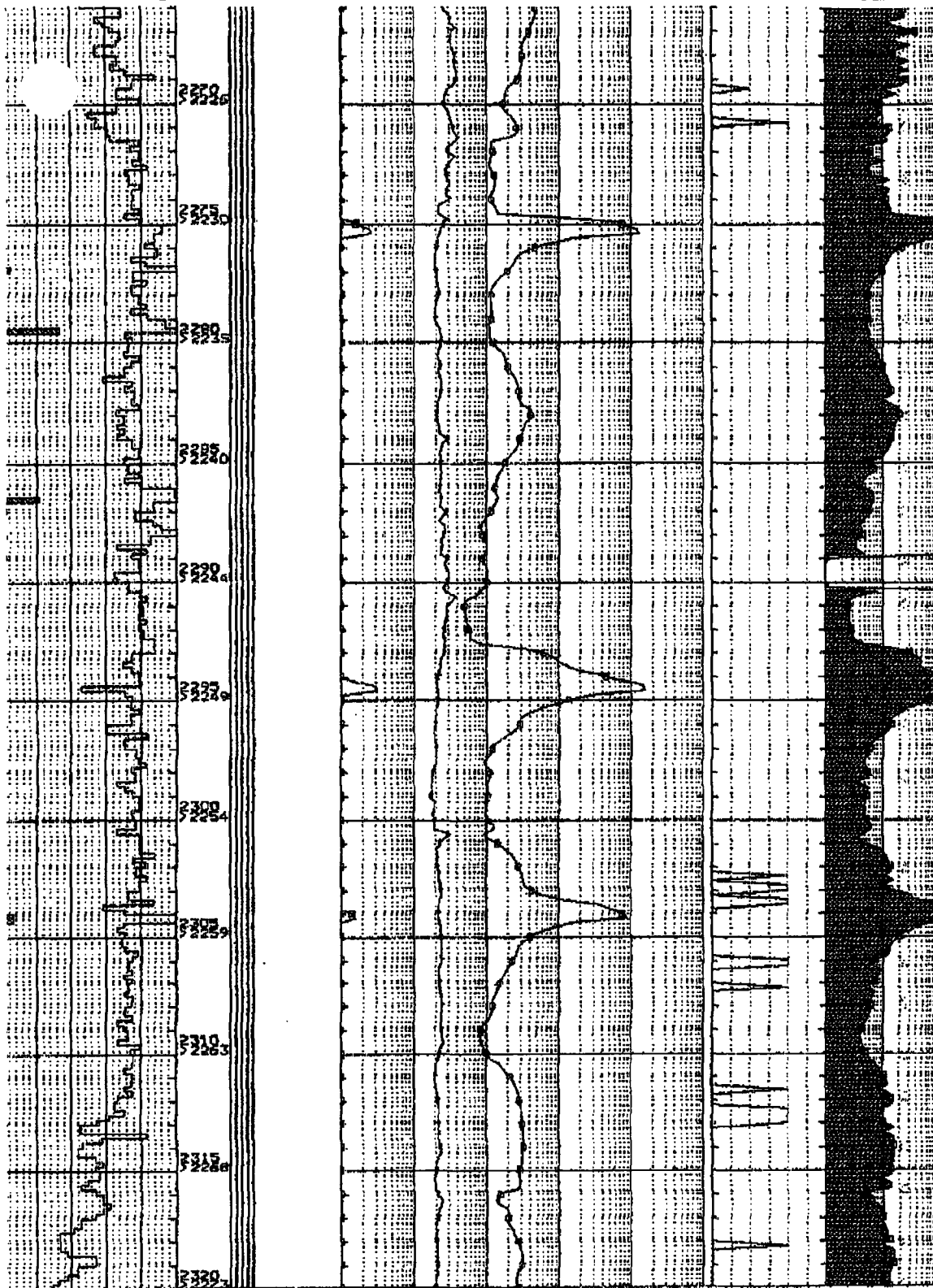
PHONE #: (600) 700-2629

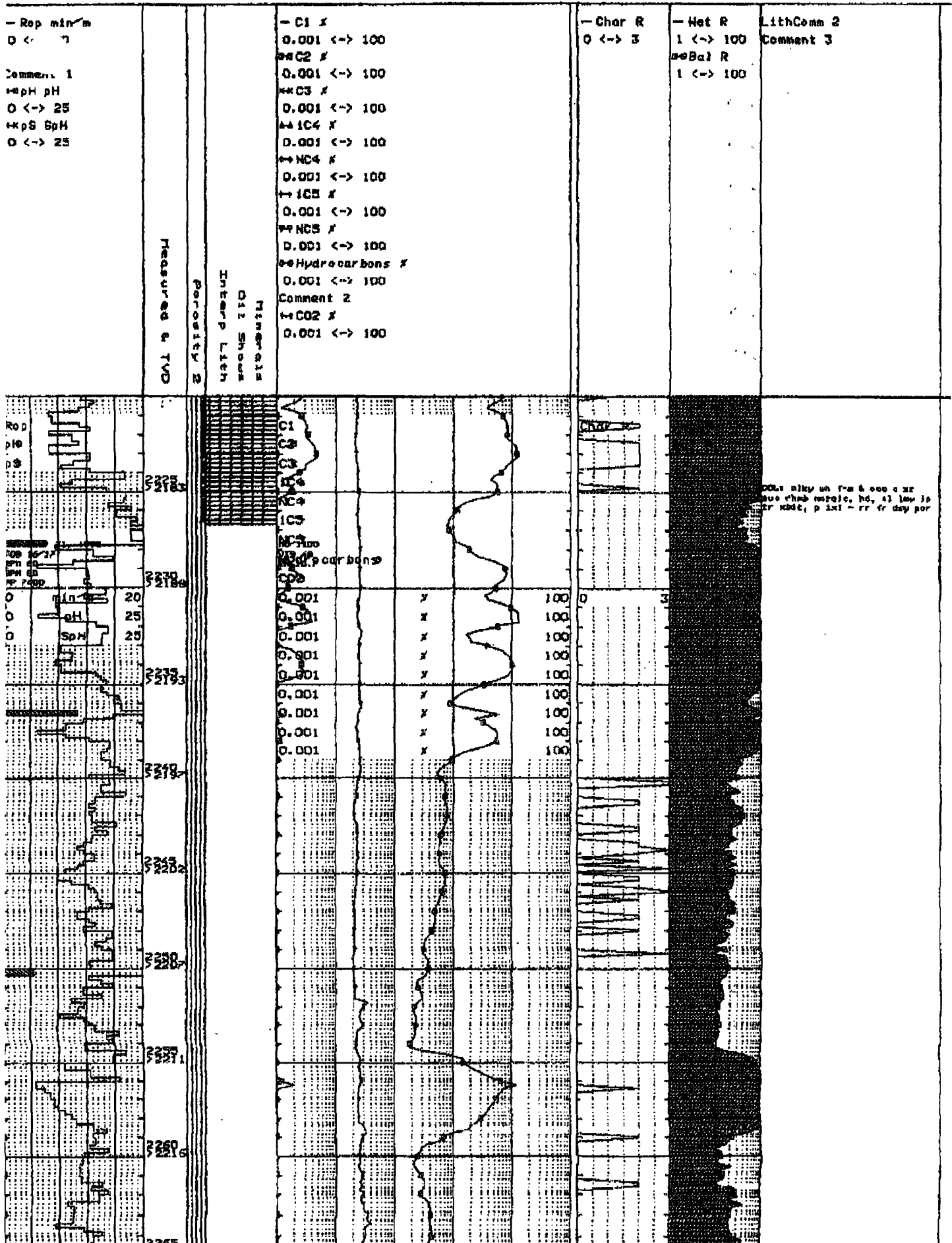
CALLING CARD#:

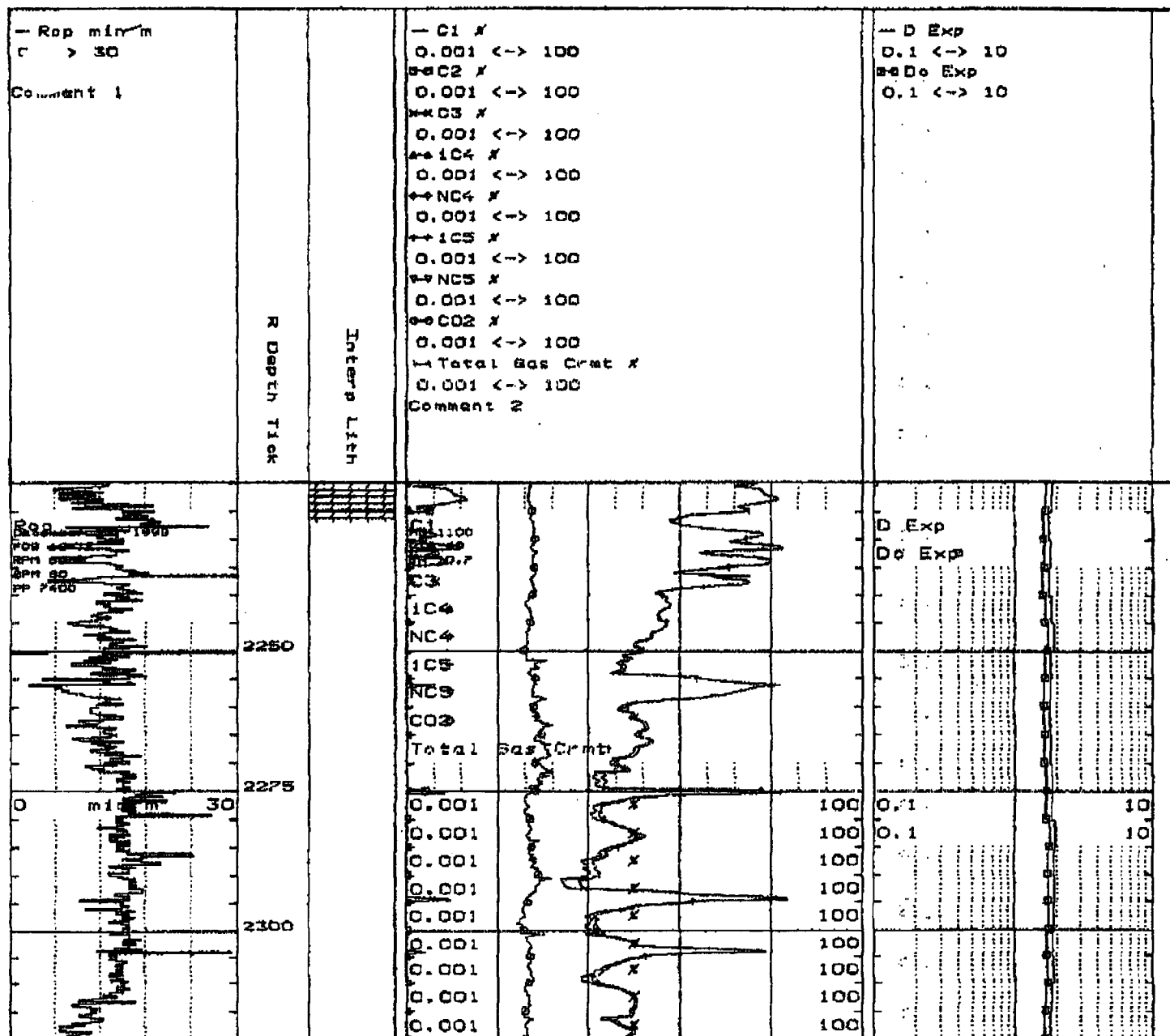
DRILLING COST REPORT

WELL NAME: CDN. FOREST et al FLETT RAPIDS I-61						AFE #: A983002		
LOC: 300-I61-6050-12315-0						PRESENT DEPTH: 2325 m		
Description	Date	Date	Date	Date	Date	5 DAY	PREV.	TOTAL
	98/12/27	98/12/28	98/12/29	98/12/30	98/12/31	TOTAL	TOTAL	COST
INTERMEDIATE CASING m of 244 mm	14611					14611	221793	236404
PRODUCTION CASING m of mm								
SURFACE CASING m of 339 mm							168758	168758
DRILLING BITS		9800				9800	106748	116548
DAYWORK \$ /DAY	14176	14176	14176	14176	14176	70880	711794	782674
DIRECTIONAL DRILLING							198413	198413
FUEL		5561		5969	1603	13133	152893	166026
WATER	1148	1148	600	1190	600	4686	70396	75082
ENGINEERING/DESIGN							10800	10800
LEASE AND ACCESS								
- LICENCES & PERMITS								
- SURFACE LEASE & SURVEY							13000	13000
- ROAD & LEASE PREPARATION							153550	153550
- RESTORATION & CLEAN-UP								
RIG AND CAMP MOVE							232399	232399
DRILLING FLUIDS	8176	5690	11527	7389	5145	37927	282178	320105
BOILER	1440	1440	1440	1440	1440	7200	57920	65120
COMMUNICATIONS	150	150	150	150	150	750	8850	9600
CAMP AND CATERING	3300	3300	3300	3600	3300	16800	196800	213600
CEMENT SERVICES								
- SURFACE							24612	24612
- INTERMEDIATE							70298	70298
- PRODUCTION/LINER								
CORING AND ANALYSIS								
EQUIPMENT RENTALS	1552	2497	2497	2197	2197	10940	91825	102765
DRILL STEM TESTS								
LOGGING							44686	44686
SAFETY SERVICES	1220	1220	1220	1220	1220	6100	24732	30832
SPECIAL SERVICES		2308				2308	7936	10244
TRUCKING							82519	82519
FIELD SUPERVISION								
- FOREMAN	800	800	800	1600	800	4800	64800	69600
- GEOLOGIST	4080	1695	1695	1695	1695	10860	78085	88945
- SECOND MEN								
TRAVEL/ACCOMMODATION								
OVERHEAD								
Welding/tongs/vac truck	5190					5190	45482	50672
Crew/all/flights/vehicle	430	430	430	5830	430	7550	64470	72020
Wadeco	2310	2310	2695	2695	2175	12185	115216	127401
DAILY COST	58583	52525	40530	49151	34931	235720	3300953	3536673
ACCUMULATED COST	3359536	3412061	3452591	3501742	3536673			

Account	Comment
	98/12/27 Intermediate casing: costs include cost and installation of 346 mm drilling spool.
	98/12/27 Geologist: cost includes second mud logger from 98/12/24 & costs for 98/12/26 which was not edited.
	98/12/28 Bateman Inspection Ltd.[inspect BHA] \$2308 Special Services







VERSION INFORMATION

VERSION: 2.0: CWLS LOG ASCII STANDARD -VERSION 2.0
 AREA: NO: ONE LINE PER DEPTH STEP

NOTE: This file conforms to the LAS 2.0 standard and may contain entries in the header and data sections that are not compatible with previous versions of LAS software.

WELL INFORMATION BLOCK

WELL INFORMATION BLOCK	DATA	DESCRIPTION OF MNEMONIC
START.M	2220.0000	: START DEPTH
STOP.M	2320.0000	: STOP DEPTH
STEP.M	0.0000	: STEP LENGTH
NULL.	-999.2500	: NULL VALUE
COMP.	Canadian Forest Ltd.	: COMPANY
WELL.	Cdn Forest et al Flett Rapids	: WELL
FIELD.	<NOT AVAILABLE>	: FIELD
LOC.	1-61-60-50-123-15	: LOCATION
SVC.		: SERVICE COMPANY
DATE.	30-DEC-1998	: LOG DATE
WID.	<NOT AVAILABLE>	: UNIQUE WELL ID

CURVE INFORMATION

WELL INFORMATION BLOCK	API CODE	CURVE DESCRIPTION
MEAS.M		: 1 BL Hole Depth
DX		: 2 DO D Exp
DXC		: 3 DP Dc Exp

OTHER DATA

Produced by QLOG (c)1991-1999 Datalog Technology Inc.

QLOG/LAS \$Revision: 2.5 \$

DMEA	DX	DXC
2220.000	1.9500	1.7600
2225.000	1.8600	1.6800
2230.000	1.7700	1.6000
2235.000	1.8100	1.6300
2240.000	1.7400	1.5700
2245.000	1.8400	1.6600
2250.000	1.9000	1.7300
2255.000	1.8400	1.6600
2260.000	1.8100	1.6400
2265.000	1.8000	1.6300
2270.000	1.8100	1.6400
2275.000	1.8600	1.6900
2280.000	1.8600	1.6900
2285.000	1.9700	1.7800
2290.000	1.9300	1.7400
2295.000	1.9300	1.7400
2300.000	1.9400	1.7600
2305.000	1.8800	1.7100
2310.000	1.9000	1.7300
2315.000	1.8400	1.6700
2320.000	1.8000	1.6300

DATALOG MORNING REPORT

OPERATOR: CANADIAN FOREST LTD.	DATE: Jan 01/99
WELL NAME: Cdn Forest et al Flett Rapids	DAY #: 42
LOCATION: 1-61-60-50-123-15	REPORT #: 36
CONTRACTOR: NABORS Rig#24	TIME: 00:00
REPORTED BY: Adrian Pristolnicu	DEPTH: 2320 m
Victor Matusovsky	PROGRESS: 98 m
OPERATION : Drilling	1% = 100u = 10000ppm

BACKGROUND GAS:

DEPTH (m) INTERVAL	TOTAL(%) HYDROCARB	C1 (%)	C2 (%)	C3 (%)	C4+C5 (%)	CO2 (%)
2222 - 2320	0.79 - 0.10	0.78 - .10	tr	0	0	.03

PRODUCED GAS: (Trip Gas, Connection Gas, etc.)

TYPE	DEPTH (m)	(%) TOTAL	(%) BACKGROUND	TIME PUMPS OFF
Connection Gas	2237	6.68 /	1.21 /	5 min
Survey Gas	2257	12.42 /	1.49 /	40 min
Connection Gas	2275	12.85 /	0.80 /	5 min
Survey Gas	2294	15.18 /	0.80 /	40 min
Pump-off Gas	2304	9.08 /	1.04 /	7 min

GAS SHOWS: (max/loc.background)

DEPTH (m) INTERVAL	MAXIMUM HYDR. (%)	C1 (%)	C2 (%)	C3 (%)	IC4+NC4 (%)	IC5+NC5 (%)
2222.0-2226.2	11.89/ 4.65	11.9/4.65	tr	0	0	0
2228.8-2230.0	8.20/ 0.79	8.2/0.79	tr	0	0	0
2231.2-2232.0	13.20/ 3.46	13.2/3.46	tr	0	0	0
2233.2-2234.4	9.88/ 1.55	9.8/1.55	tr	0	0	0

COMMENTS -



**DYNAMIC DRILLING FLUIDS
INTERNATIONAL LTD.**

DRILLING MUD REPORT

Date 98-12-31 Check No. 52

OPERATOR: <u>CANADIAN FOREST OIL LTD</u>		CONTRACTOR: <u>WABROS DRG</u>		RIG NO.: <u>24</u>
REPORT FOR: <u>MURRAY ROGERSON</u>		REPORT FOR: <u>RAY SHANDOWNET</u>		SPUD DATE: <u>98-11-13</u>
WELL NAME: <u>CDW FOREST et al FULTT Rapids</u>		LOCATION: <u>I-61</u>		DAYS FROM SPUD: <u>48</u>
BIT DATA		DRILL STRING		CASING
SIZE (mm): <u>15.9</u>	TYPES: <u>604F</u>	D.P. SIZE: <u>127</u> mm	LENGTH: <u>2019</u> m	SURF: <u>339</u> mm AT <u>568</u> m
DEPTH IN: <u>2083</u> m	R.P.M.: <u>60</u>	mm LENGTH: <u> </u> m		IN HOLE: <u>79</u>
W.O.B. (daN) (FORCE): <u>17000</u>	D.C. SIZE: <u>168</u> mm	LENGTH: <u>137</u> m	INT: <u>244.5</u> mm AT <u>2068</u> m	IN TANKS: <u>86</u>
NOZZLE SIZE (mm): <u>317.9</u>	BHA: <u> </u> mm	LENGTH: <u>256</u> m	LINER: <u> </u> mm AT <u> </u> m	TOTAL: <u>165</u>
				IN STORAGE: <u>20</u>

PUMP AND CIRCULATION DATA				EQUIPMENT			
PUMP	#1	#2	ANNULAR VELOCITY	SOLIDS CONTROL	OVERFLOW (FMS kg/m ³)	UNDERFLOW (FMS kg/m ³)	UNDERFLOW RATE (L/min)
MODEL		<u>F-1000</u>	D.P. & HOI E: <u>39</u> m/min				
LINER (mm)		<u>140</u>	D.P. & CSG: <u>36</u> m/min				
STROKE (mm)		<u>254</u>	D.C. (Hole): <u>64.7</u> m/min				
STROKE/min		<u>80</u>	D.C. (CSG): <u>56.5</u> m/min	CURRENT OPERATION AND REMARKS:			
L/STROKE		<u>11.69</u>	CIRCULATION TIMES	<u>DRG Ahead - DO NOT STRIP</u>			
L/min		<u>934</u>	BOTTOMS UP: (min) <u>61</u>	<u>ANY WATER/MUD FROM</u>			
m ³ /min		<u>934</u>	MUD CYCLE: <u>176</u>	<u>ACTIVE SYSTEM.</u>			

STANDPIPE PRESSURE (kPa) □ (MPa)		RECOMMENDED TREATMENT: <u>WHILE DRG MAINTAIN</u>	
SAMPLE FROM ☒ FLOWLINE ☐ TANK	MUD PROPERTIES		
FLOWLINE TEMP: <u>55.5°C</u> <u>52°F</u>	<u>11:00</u>		
DEPTH (m): <u>2275</u>	<u>45</u>	<u>① pH AT 10.5 WITH CAUSTIC SODA</u>	
FUNNEL VISCOSITY (S/L) at °C: <u>45</u>	<u>1100</u>	<u>② FLUID LOSS AT 6-8 cc/30min WITH DRISMAC/STARRAC IN A 1:2 RATIO</u>	
DENSITY (kg/m ³): <u>15</u>	<u>85</u>	<u>③ VISCOSITY AT 45-50 sec/HIT WITH PREMIX.</u>	
PLASTIC VISCOSITY (mPa.s) at °C: <u>4/7</u>	<u>10.7</u>	<u>④ WEIGHT AT 1100 kg/m³ WITH</u>	
YIELD POINT (Pa): <u>82</u>	<u>.5</u>	<u>(a) CENTRIFUGE IN BARITE RECOVER</u>	
GEL STRENGTH (Pa) 10s/10 min: <u>47</u>	<u>32</u>	<u>(u) POTASSIUM WATER AT 5LIT/min.</u>	
pH ☐ STRIP ☐ METER: <u>6.1/4</u>	<u>60</u>	<u>(c) BARITE AS REQUIRED.</u>	
FILTRATE (cm ³ /30 min at 700 kPa) °C: <u>1000</u>	<u>1000</u>	<u>ADD DAILY/TOURLY.</u>	
CAKE THICKNESS (mm): <u>3</u>	<u>200</u>	<u>① 1 CHEMICIDE / 12 HRS.</u>	
SAND CONTENT (Vol. Fraction) @ SAND: <u>0.01</u>	<u>200</u>	<u>② 1 COMADEX / 1 SULTEX / 12 HRS.</u>	
SOLIDS CONTENT (Vol. Fraction) @ SOLIDS: <u>0.06</u>	<u>200</u>	<u>③ GEL/KERAM IN A 9:1 RATIO</u>	
M.B.T. (Bent. Equiv.) (kg/m ³): <u>47</u>	<u>200</u>	<u>ONCE PER 24 HRS. (GEL AT</u>	
OIL CONTENT (Vol. Fraction): <u>6.1/4</u>	<u>200</u>	<u>20MM/1SK TO ACTIVE SYSTEM</u>	
ALKALINITY FILTRATE pH (METER): <u>60</u>	<u>200</u>		
CALCIUM (mg/L): <u>1000</u>	<u>200</u>		
CHLORIDES (mg/L): <u>1000</u>	<u>200</u>		
POLYMER (kg/m ³): <u>1</u>	<u>200</u>		
K ⁺ Ion: <u>1000</u>	<u>200</u>		
SULFITE: <u>200</u>	<u>200</u>		

WAREHOUSE	MUD ENGINEER
<u>FT. NEWTON - P.O. BOX 785-4222</u>	<u>SS44773 THANE</u>
<u>FT. NEWTON - P.O. BOX 785-4222</u>	<u>KD SODKRECH - X16-4653 AROUPEH</u>

Dynamic Drilling Fluids International Ltd. shall not be liable for any damage resulting from the use of this report and its suggestions and it is to

DAX Consulting Ltd.

DAILY GEOLOGICAL WELL REPORT

DATE: January 01, 1999
REPORT TO: James Taylor

WELL REPORT NO. 49
REPORT FROM: Bryan Bellman
SITE TELEPHONE NO.: 1-600-700-3610

WELL NAME AND LOCATION: CANADIAN FOREST et al FLETT RAPIDS 1-61

SPUD DATE: 98/11/13 @ 12:15 hrs.

DAYS FROM SPUD: 49

GROUND ELEVATION: 254.99 m (ASL)

K.B. ELEVATION: 262.49 m (ASL)

00:00 HOUR DEPTH: 2324 (2287.0 TVD) m K.B.

FORMATION: ARNICA Dolomite

24 HOUR PROGRESS: 97 m

AVERAGE DRILLING RATE: 4.75 m/hr

00:00 HOUR STATUS: Drilling 216mm hole.

05:00 HOUR DEPTH: 2347 (2310.0 TVD) m

FORMATION: ARNICA Dolomite

CURRENT DRILLING RATE: 6.0 m / hr.

05:00 HOUR STATUS: Drilling 216mm hole.

WEATHER: Snow Flurries, light north wind, a daytime High of - 23 degrees C. , & an overnight Low of - 26 degrees C.

OPERATIONS SUMMARY LAST 24 HOUR PERIOD: Drilled 216mm hole.

FORECAST ACTIVITIES NEXT 24 HOUR PERIOD: Drill ahead 216mm hole, bit trip impending.

SURVEYS: Please see directional survey file FLETTSVY.XLS.

MUD PROPERTIES:

Density: 1100 kg/m3
pH: 10.8

Viscosity: 46 s/L
F.C.: 5 mm

Water Loss: 6.5 cm3/30 min
Temp: 52 deg C

FORMATION SAMPLE TOPS:

	Prognosis (Subsea) (metres)	Measured Depth (metres)	T.V.D. Depth	T.V.D. (subsea)	Change from Prognosis
M. DEV. NAHANNI	- 1974	2068	2035.7	-1773.2	+ 201
Intermediate Casing	- 1975	2067.7	2035.3	-1772.8	+ 202
HEADLESS	- 2148	2177	2141.5	- 1879.0	+ 269
ARNICA	- 2182	2213	2176.9	- 1914.4	+ 268
L. DEV. SOMBRE	- 2425				
CAMSEI.I.	-2460				
ROOT RIVER	- 2560				
THRUST FAULT	- 2624				
SIL/ORD. MOUNT KINDLE	- 2690				
ORD. LITTLE DOCTOR	- 2860				
FRANKLIN MTN.	- 2880				
CAMBRIAN SS.	- 2890				

CUMULATIVE Well Cost To Date : \$ 3,535,673 (99/01/01)
\$ 3,501,742 (98/12/31)

PAJAK ENGINEERING LTD.

DAILY DRILLING REPORT

WELL NAME: CON FOREST et al FLETT RAPIDS I-61		LOCATION: 300-161-6050-12315-0		DATE: 98/12/31	
I.L.: 3001616050123150		CPA NO.:		DAY: 48	
OFFICE SUPERVISOR: Mickey Sutherland		LICENCE NO.: WID#1851		SPUD DATE: 98/11/13 @ 12:15 hrs.	
CONTRACTOR: Nabors Drlg.		KB: 262.5 m KB-GL: 7.5 m		RIG RELEASE: @ : hrs.	
RIG #: 24E		GL: 253.0 m KB-CF: 6.9 m		WELL STATUS:	
WEATHER: Overcast		TEMP: -24 °C		FINAL TD: m FORMATION:	
Midnight DEPTH: 2227.00 m		PROGRESS: 66.00 m		PSTD: m FORMATION:	
8:00 a.m. DEPTH: 2252.00 m		8:00 a.m. OPERATION: Drilling 215.9m hole @ 4m/hour.			

AFE #: A983002 AFE AMT: \$ 5747200 DAILY COST: \$ 49151 CUMULATIVE COST: \$ 3501742

1 215.9mm bit	1 172mm bitsub	1 monel DC	1 monel DC	1 shock sub
1 R 3	1 168mm DC	1 R 3	1 168mm DC	1 jar
14 168mm DC	1 X/O sub	9 HW/DP		
LENGTH: 256.40 m WT. BELOW JARS: 8000 daN JAR HRS: 41.0 JAR SERIAL #: 10708				
WT. ON BIT: 16000 daN ROTARY RPM: 60 STRING WT.: 95000 daN				
DRILL PIPE O.D.: 127 THREAD: 114 IF DRILL COLLARS O.D.: 168 THREAD: 127mmH-90 NO. IN HOLE: 18				

TOTAL ROTATING HOURS: 576.00

BIT S

BIT NO.	SIZE (mm)	MAKE	SERIAL #	TYPE	NOZZLES (mm)			DEPTH		MTRS PER HOUR	HOURS ON SET		BIT WT&H RPM	CUTTING STRUCT						REMARKS			
					1	2	3	IN	OUT		ORE	END		1	2	3	4	5	6		7	8	
9RR	311.0	RBI	LN1400	C2	15.9	15.9	15.9	2073	2073	0				1-3	4	4	WT	A	E	3	WT	LOG	
1B	215.9	REED	TC1097	HP-11	7.9	7.9	7.9	2073	2083	10	4.0	2.50		6-10	60	2	2	WT	A	E	1	NO	BMA
2B	215.9	SEC	680230	6884F	7.9	7.9	7.9	2083		144	3.5	41.00		12-16	60								

LAST PIPE TALLY: 1856.06

BOARD: 1855.17

CORRECTION: YES [X] NO []

MUD

Viscosity Sec/L	DENSITY lb/OUT	pH	WL cc/Min	FC mm	PV/VP	GELS 0/10	Tst. Sol. kg/m3	Dist. Sol. kg/m3	SAND kg/m3	BENTONITE kg/m3	LCM kg/m3	CL %	Cl ppm	Cl ppm	ALKALINITY		°C IN/OUT
46	1105/1105	10.7	7.6	0.5	16/ 10.0	3.0/7.0	60.00		0.000	60		10000	800	80	0.4	1.3	50/ 51
/					/	/											/
CENTRIFUGE					DESILTER			DESANDER			DEGAUSER			TOTAL MUD DUMPED			
2 HR IN	kg/m3	OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	HR OUT	kg/m3	m3					

PUMP NO. 1 TYPE: F-1000					PUMP NO. 2 TYPE: F-1000					PRESSURE MPa	ANGULAR VELOCITY		JET	
MODEL	LINER mm	STROKE mm	SPM	m3/hr	MODEL	LINER mm	STROKE mm	SPM	m3/hr		OP m/min	DC m/min	VELOCITY m/min	HIP
Emeco	140	254	80	0.94	Emeco	140	254			7400	39.3	65.1	106.1	108.67

SURVEYS				TIME BREAKDOWN				MUD ADDITIVES	
			AZIMUTH	DRILLING	17.75	SURVEYING	1.25	Trucking	1775
9.75	@	2207.00	m 353.00	RIG SERV	0.50	SAFETY MTG	0.50	Sod Sulf	4
	@		m	TRIPPING		HNDL TOOLS		Soda Ash	1
	@		m	CIRCULATE	4.00	PRESS TEST		Bldg. rent	1
	@		m	CEMENTING		REPAIRS		Chemcide	2
	@		m	CLN TO BTM		BOP DRILL		Drispec re	2
	@		m	SLIP & CUT		LOGGING		Starpac	3
	@		m	REAMING				Gel Nat	53
	@		m					Lignite	4
	@		m					Corinox	3
	@		m					Desco	2
	@		m					Caustic	3
				TOTAL HOURS: 24.00					

MUD COMMENTS: Started barite recov. system w/ 1 solids cent.

DRILLING & GEOLOGICAL REMARKS: (Report all details of Casing, Cementing, Drill Stem Tests, Logging, Abandonment Plugs, etc. Sequence of Operations to be inserted below.)

1998.12.30 @ 00:00 Hours

Drilled 215.9mm hole with directional surveys, safety meetings, rig services, circulating up drilling breaks and circulating for drilling foreman crew change from 2161 to 2252mKB at 24:00 hours 1998.12.30.

Note #1: Hold daily meeting with both crews.

Topics: (a) Tools. (b) Gas detection.

Note #2: Circulated bottoms up after drilling break near top of Arnica, 2300 units.

SUPERVISOR: D. Solberg/M. Rogerson	PHONE #: (600) 700-2629	CALLING CARD#:
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CD 06/97