FOLD HERE →

118167

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-C1

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling

SURFACE LOCATION: N.E.- C.O.80-12330 | UNIQUE ID.: 300-N.E.-C.C.80

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

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Slick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 49 | MONTH OCT | DAY 31 | RIG NO. 55

FUEL @ 8:00 | RIG 1.45 | BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	DTC	K55	55	735.22		735.12
	244.5	216.8	71.82	BTC	L80	235	3145.18		3147.00

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
178	179.5	DC	56	178	4½IF	26			
127	74.4	HW	76	145	4½IF	17	F-1600	Emsco	254
127	29.03	E2	105	167	I	28	F-1600	Emsco	254
127	25.10	E2	99	162	I	135			

REVISED MARCH 1996

118167

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

KH

WELL NAME & NO.: Canadian Forest et al Flett N-C1 | YEAR 49 | MONTH OCT | DAY 31

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling Ltd

RIG MANAGER: Clayton Lant | RIG NO.: 55

PROVINCE: Northwest Territories | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1128

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP, B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.					2½	¼	¼								2							Split out Diverter Spool, Weld Tricks, Clean Tanks				
	DAY					11½	½									11½									1¼		
	EVE.					8½	¼	¼																			
	TOTAL					22½	1	¾								2									2½	1¼	

TOTALS

SHALE SHAKER(S)

NO. | TYPE
1 | Derrick

SCREENS CHANGED ☐ YES ☒ NO

	TOP	TOP
E	110	175
E	MIDDLE 84	MIDDLE 175
E	BOTTOM 84	BOTTOM 110

RENTALS/SERVICES

	MORN	DAY	EVE
DMS 137127			
DMS 9616			
Vacuum Gl. 4/D			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	BIT		.35
1	Bit Sub		1.22
9	178 DC		56.01
1	JARS		5.44
6	178 DC		57.12
1	X/O		1.41
9	H.W.		81.94
	BHA		203.39
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF DC	1000 daN	17000
	WT. OF STRING	1000 daN	

Tois S/N# 10134

BIT RECORD

BIT NO.	1
SIZE (mm)	215
IADC CODE	
MFG.	H.C.
TYPE	J7
SERIAL NO.	CF863
JETS (mm)	3x9.5
DEPTH OUT (m)	
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Premix	
Soda Ash	4 sxs
Caustic	1 sx
Starpak	4 sxs
Drispac R	9 sxs
Drispac Lo	9 sxs
Kelzan	5 sxs

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			45-50	1/6

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
6900	152	90	152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	00:30	½	3
00:30	00:45	¼	7
00:45	03:00	2¼	6
03:00	05:15	2¼	5
05:15	06:00	¾	22
06:00			

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

INSPECT CONNECTIONS ON TOP DRIVE
R/S Function Komate choke Flowx
R.I.H. - STRAP IN HOLE
Brk. Circ. @ 1450m, Establish Circulation
Pressure Test Annular 15mPa Low 1500 High 10500 psi
Test Pipe 15mPa Low 1500 High 10500 psi

NOTES: √Crown Saver, Deadline Anchor, Fastline Clamp, Deadline Anchor

BOILER: HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lukoch	8			✓
DERRICKMAN		Ned Melnyk	8			✓
MOTORMAN		Mike Gurgan	8			✓
FLOORMAN		Wayne Chretien	8			✓
FLOORMAN		Adam Murray	8			✓
LEASEMAN		Mark Pinch	8			✓
Lease		Barry Redmond	8			✓
RIG WATCH						

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	BIT		.35
1	Bit sub		1.22
9	178 mm DC		86.01
1	JARS		5.44
6	178 mm DC		57.12
1	X/O		1.41
9	H.W.		81.94
	BHA		233.39
102	D.P.	STANDS	2927.04
	D.P.	SINGLES	
	KELLY DOWN		14.43
	TOTAL		3146
	WT. OF DC	1000 daN	17000
	WT. OF STRING	1000 daN	114000

BIT RECORD

BIT NO.	1
SIZE (mm)	215
IADC CODE	
MFG.	H.C.
TYPE	J7
SERIAL NO.	CF863
JETS (mm)	3x9.5
DEPTH OUT (m)	
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM 4000 - 16000
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	13:25
DENSITY kg/m³	1340
FUNNEL VIS. - (S/L)	43
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Soda Ash	4 sxs
Percol LB	2 sxs
Soda Ash	2 sxs
Starpak	35 sxs
Drispac R	6 sxs
Drispac Lo	6 sxs
Kelzan	4 sxs

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			45-50	1/6

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
10400	152	90	152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
Pipe Strap		
Tally 3160.43		
STRAP 3159.52		
Diff = .91		

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	10:30	2½	6
10:30	11:30	1	22
11:30	11:45	¼	5
11:45	13:15	1½	15
13:15	13:30	¼	22
13:30	14:45	1¼	5
14:45	16:00	1¼	5

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

R.I.H. F/1511.9 - 3132.5 Tag Top of Float collar
Drill out Float collar & cement to 3140m
Circulate bottom hole clean
Press. Test bot pipe rams 15000 Low 15000 High
Acc. Function Test OK.
Drill cement F/3140m - 3146m
Circulate bottom hole clean (Clean Surface Tank)
Pump ahead 10m³ H20 spacer, displace hole To Polymer mud system

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER: HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	12			✓
DERRICKMAN		Jerry Foley	12			✓
MOTORMAN		Kevin Vandenbrand	12			✓
FLOORMAN		Julien Sassie	12			✓
FLOORMAN		Gerald Gilbert	12			✓
LEASEMAN		Lawrence Loreen	12			✓
Lease		Bert Timbre	12			✓
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	BIT		.35
1	Bit sub		1.22
1	Float		9.20
1	Trans sub X/O		1.69
1	BPV Sub		1.07
1	Shock sub		3.17
3	178 DC		26.58
1	JARS		5.44
16	178 DC		114.54
1	X/O		1.41
9	HW		81.94
	BHA		246.81
	D.P.	STANDS	BHA
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF DC	1000 daN	
	WT. OF STRING	1000 daN	

BIT RECORD

BIT NO.	2D
SIZE (mm)	215.9
IADC CODE	537
MFG.	Smith
TYPE	F3R
SERIAL NO.	260661
JETS (mm)	3x9.5
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	1 sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	16:45	¾	5
16:45	17:00	¼	7
17:00	21:30	4½	6
21:30	24:00	2½	24

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Displace hole to polymer mud system
R/S function Ann 23 sec
P.U. H. For BHA change
P/U MWD TOOLS & BHA

P/U Sperry Sun 508 S/N 10561 JD58 CD170
BPV SM S/N 5515.1526 JD54 CD172
Monel S/N MCEWS JD72 CD165

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER: HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lukoch	4			✓
DERRICKMAN		Ned Melnyk	4			✓
MOTORMAN		Mike Gurgan	4			✓
FLOORMAN		Wayne Chretien	4			✓
FLOORMAN		Adam Murray	4			✓
LEASEMAN		Mark Pinch	4			✓
Lease		Barry Redmond	4			✓
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118166

REVISED MARCH 1996

118166

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

K.H.

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Fleth N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: NE/11-AC-123W6 | UNIQUE ID.: 300-NE1-11AC

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

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well Licence & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH Dec | DAY 30

RIG NO. 68

FUEL @ 8:00

AVG 169 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	ETAC	H40	22	775.55	6.62	775.15
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	178	170.8	DS	59	178	5 1/2 FH	26	F-1000	Emsco	254
	149	96.9	H40	79	185	4 1/2 IF	17	F-1000	Emsco	254
	1	93.02	E	65	162	4	215			
		58.40	G	59	167		135			

TOTALS

	SHALE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
	NO. TYPE: 1 Derrick	TMJ 134560			
	SCREENS CHANGED ☑ YES ☐ NO	DMS 7019			
	TOP 110 / TOP 175				
	MIDDLE 159 / MIDDLE 175				
	BOTTOM 159 / BOTTOM 110	Jerry Oil Co.			

WELL NAME & NO.: Canadian Forest et al Fleth N-61 | YEAR 99 | MONTH Dec | DAY 30

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Shepherd | RIG NO.: 68

PROVINCE: Northwest Territories | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1187

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.																						CASING ELEVATORS A	Slips Casing A	Insert DC's MW		
	DAY														3	5											
	EVE.																								8		
	TOTAL														3	5							A	A	8		

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF DC	1000 daN	
	WT. OF STRING	1000 daN	

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Regul 728	9 SK

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	04:00	4	12	RELEASING CASING ELEVATORS (STUCK ON CASING)
04:00				Set Casing Slips & cut Casing
	08:00	4	23	LAY Down CASING Thaw & Prep Final cut
				CLEAN OUT MUD TANKS

NOTES: Crown Saver, Deadline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickoch	8			
DERRICKMAN		Ned Melnyk	8			
MOTORMAN		Mike Guerin	8			
FLOORMAN		Wayne Chretien	8			
FLOORMAN		Adam Murray	8			
LEASEMAN		Morse Punch	8			
Lease		Berry Bertrand	8			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF DC	1000 daN	
	WT. OF STRING	1000 daN	

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00			14	Change out Drilling spool to tubing hanger
	11:00	3		spool Energize seals. Nipple up BOP.
11:00			15	Press Test manifold, Blind rams, Hyd valve
	16:00	5		on Top drive.
				1500 KPA low. - 17,500 KPa High.
				for 15 MINS EACH. OK.

NOTES: Crown Saver, deadline anchor, fast line clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	12			
DERRICKMAN		Jerry Foley	12			
MOTORMAN		Kevin Vandenbrand	12			
FLOORMAN		Julien Sassie	12			
FLOORMAN		Gerald Gilbert	12			
LEASEMAN		Lawrence Loreen	12			
Lease		Bert Timbre	12			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			1.25 m
1	Bit sub		1.22 m
9	D.C. 178mm		86.01 m
1	Jars		5.44 m
6	178mm D.C.		57.12 m
1	X/O		1.41 m
9	H.W.		81.94 m
			m
	BHA		233.39 m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF DC	17000 1000 daN	
	WT. OF STRING	1000 daN	

BIT RECORD

BIT NO. 1
SIZE (mm) 215
IADC CODE
MFG. HC
TYPE J7
SERIAL NO. CF3463
JETS (mm) 3x9.5
DEPTH OUT (m)
DEPTH IN (m) 3147
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00			24	Rig to R.I.H. Inspect BHA, P/U 9 7/8" mm DC.
	24:00	8		Inspect H.W.'s Top drive connections

NOTES: Crown Saver, Deadline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickoch	A			
DERRICKMAN		Ned Melnyk	A			
MOTORMAN		Mike Guerin	A			
FLOORMAN		Wayne Chretien	A			
FLOORMAN		Adam Murray	A			
LEASEMAN		Morse Punch	A			
		Barry Bertrand	A			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

118165

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DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

LICENCE NO.:	WELL NAME AND NO.:
1863	Canadian Forest etal FkH N-41
OPERATOR:	CONTRACTOR:
Canadian Forest Oil	Akita Drilling LTD
SURFACE LOCATION:	UNIQUE ID.:
N-41-60-40-12330	300 - N41-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

YEAR 96 | MONTH 06 | DAY 29

RIG NO. 68

FUEL @ 8:00

RIG 1.80 | BOILER

WEATHER	
TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	107.0	ATEC	K55	58	735.55	6.62	735.62
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	178	89.4	E	71	222	6 5/8 REG	4			
	158	134.6	S	25	190	6 5/8 REG	36	F-1100	EMSCO	254
	197	148	S	71	241	6 5/8 REG	4	F-1100	EMSCO	254
		240	E	71	241	6 5/8 IF	28			
		263	E	63	162	4 1/2 IF	1			

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DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest etal FkH N-41	96	06	29
OPERATOR	CONTRACTOR		
Canadian Forest Oil	Akita Drilling LTD		
RIG MANAGER	RIG NO.		
Rusted	68		
PROVINCE	CAMP ☒ YES ☐ NO	RIG SAFETY DAYS:	
Northwest Territories		1126	

TIME-HRS

CODE NO:	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG	23	24	25	26
	MORN.												3 1/2	AH									Wait on cement	Work on BOPs & Elevators	
	DAY					3 3/4							2	1								1/4	1		3	
	EVE.													5												
	TOTAL					3 3/4							4 1/2	10 1/2								1/4	1		3	

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE				
1	Derrick	TMS 134485			
SCREENS CHANGED ☐ YES ☒ NO		AMJ 6974			
TOP 110	TOP 110				
MIDDLE SA	MIDDLE SA				
BOTTOM SA	BOTTOM SA	Accurate Oil - 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED			
TIME	02:00	08:00	08:00
DENSITY kg/m³	1500	1500	1500
IADC CODE			
FUNNEL VIS. - (S/L)	77	76	76
W.L. (cm³)			
pH			
PVT m³	110.0	115.8	115.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic Soda	4 sxs
Chemtrol 3 PA.1	1 sx
Sod Ash	12 sxs
Pot Sulph	10 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR.O RM.R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
2700	152	85	152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	03:30	3 1/2	12	Cement Casing (stage #1)
03:30	08:00	4 1/2	13	Circulate with Rig Pump through Stage Tool Wait on Cement
				STAGE #1: 314.9m TO 2647m: 32 JOINTS THERMIL 40
				7 7/8 CFR. - 7 7/8 CFB-2, 15 1/4 LTR. SLURRY FA-1
				5m³ SWEEP 7.7D 1720, 2m³ SCAVENGER 1700 kg/m³ 23.2 m³
				Gully 6 1485 kg/m³. DISPLACE W/ 63.2m³ MUD W/ 57.8m³ H2O
				9.7m³ WASTE TO 2m³ MUD PUSH DOWN 07:36 HRS 99-08-29
				FLOAT HELD OK. FULL RETURN WHILE CEMENTED &
				DISPLACING. OPEN STAGE TOOL @ 03:15 HRS W/ 7000 KPA

NOTES #2 Pump: used New SW Head + Liner cap gasket
VC Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickoch	8			
DERRICKMAN		Ned Melnyk	8			
MOTORMAN		Mike Guerin	8			
FLOORMAN		Wayne Chretien	8			
FLOORMAN		Adam Murray	8			
LEASEMAN		Morse Punch	8			
Lease		Kerry Bertrand	8			
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

METRES DRILLED

FROM	TO	DR.O RM.R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
2700	152	85		

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:45	3 3/4	5	Circulate prior to cementing next stage
11:45	12:00	1/4	21	Held safety meeting Prior to Cementing
12:00			13	Cement 2nd stage w/ Sanjel
	14:00	2		Plug down @ 14:00 HRS
14:00	15:00	1	32	Rig out cementers.
15:00	16:00	1	13	Wait on cement
				STAGE #2 1506m TO 500m KB · 70 JOINTS 0-1-0 "6"
				5% CFR, 9% CFL-1" PRE-FLUSHED.
				5m³ WATER SPACER, 2m³ SCHLUMBERG 1440 kg/m³ · 54 m³
				SLURRY @ 1760 kg/m³ DISPLACE PLUG TO 1506m W/ 58.0 m³
				MUD. PLUG DOWN @ 13:52 HRS 99-08-29 W/ 19400 KPA

NOTES Vacuum Saver, deadline anchor, fastline clamp
Grease Crown & Blocks

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4747

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	12			
DERRICKMAN		Jerry Foley	12			
MOTORMAN		Kevin Vandenbrand	12			
FLOORMAN		Julien Sassie	12			
FLOORMAN		Gerald Gilbert	12			
LEASEMAN		Lawrence Loreen	12			
Lease		Bert Timbre	12			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

METRES DRILLED

FROM	TO	DR.O RM.R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	21:00	5	13	Wait on cement prep to lift stuck to set casing slips (clean cement from BOP's)
21:00	2400	3	24	WORK ON RELEASING CASING ELEVATORS (Stuck ON CASING)
				PULLED PIPE @ 14:35 HRS 99-08-30. W/ 25000 KM
				CLEAN OUT MUD TANKS

NOTES Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12					

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickoch	4			
DERRICKMAN		Ned Melnyk	4			
MOTORMAN		Mike Guerin	4			
FLOORMAN		Wayne Chretien	4			
FLOORMAN		Adam Murray	4			
LEASEMAN		Morse Punch	4			
Lease		Kerry Bertrand	4			
RIG WATCH						

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

118164

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LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al FkH N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61 - 06A0 - 12330 | UNIQUE ID.: 300 - N61 - 06A0

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

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) HFS Signs Posted (if required) — Initial / Initial
(4) Well Licensee & Rig Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 94 | MONTH 08 | DAY 28

RIG NO. 56

FUEL @ 8:00

RIG 975 | BOILER

WEATHER

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

CASING/TUBING/LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	107.2	BTEC	K55	98	735.55	1.62	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
A	245	253	DC	71	286	4.1/2 FH	36			
B	178	178	DC	58	178	4.1/2 IF	24	F-1600	Emsco	254
C	159	194	HW	105	159	4.1/2 IF	24	F-1600	Emsco	254
D		29.62	E6	108	152		1			
E		36.00	E5	89	162		135			

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DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al FkH N-61 | YEAR 94 | MONTH 08 | DAY 28

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Lambert | RIG NO. 56

PROVINCE: Northwest Territories | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1125

TIME-HRS

OPER.	CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL S-EM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	SAFETY MTG.	21	22	23	24	25	26
MORN.						6																					
DAY						8																					
EVE.						5½							2									Y/A					
TOTAL						19½							2									Y/A					

TOTALS

	SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
E	NO.	TYPE				
F	1	Derrick	Tmt 134477			
E	SCREENS CHANGED ☐ YES ☒ NO		Amt 6966			
F	TOP 110	TOP 110				
E	MIDDLE 84	MIDDLE 84				
24	BOTTOM 84	BOTTOM 84	Arctic Oil 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	02:00	07:00	06:00
DENSITY kg/m³	1640	1610	1580
FUNNEL VIS. - (S/L)	88	86	87
W.L. (cm³)	6.2	6.1	6.1
pH	10.5	10.5	10.5
PVT m³	84.1	73.4	77.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
	1640	1410	1960
	Circ	2	
	1640	1400	2030

MORNING TOUR

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
4800	159	55	152	55

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	06:00	6	5

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Circulate Casing & Condition Mud

RIH W/ 260 jts 244.5 mm 79.62 kg/m HC L-80 LTC R3.
W/ Weatherford Model SNAP-A Float Collar 261.92 m.
RIH W/ 74 jts 244.5 mm 69.94 kg/m C-95 BTC. 9 6 + 9 mm
RIH W/ 76 jts 244.5 mm 64.74 kg/m L-80 BTC 150.46 m
RIH W/ 21 jts 244.5 mm 79.62 kg/m L-80 BTC 267.87 m
Set at 734.16 244.5 mm
Float Collar Set 1509.55 m
Float Shoe Set 666.11 m

NOTES: √ Crown Saver, Deadline Anchor, Fastline Clamp, Deadline Anchor

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
6			325 000		AA10

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickach	8			
DERRICKMAN		Ned Melnyk	8			
MOTORMAN		Mike Guerin	8			
FLOORMAN		Wayne Chretien	8			
FLOORMAN		Adam Murray	8			
LEASEMAN		Mose Funch	8			
Lease		Barry Bertrand	8			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
4700	152	55	152	55

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	16:00	8	5

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Circulate casing & condition mud
Rig out pipe handling equipment.

NOTES: √ Crown Saver, deadline anchor, fastline clamp

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			235000		4987

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	12			
DERRICKMAN		Jerry Foley	12			
MOTORMAN		Kevin Vandenbrand	12			
FLOORMAN		Julien Sassie	12			
FLOORMAN		Gerald Gilbert	12			
LEASEMAN		Lawrence Loreen	12			
Lease		Bert Timbre	12			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
4400	159	55	152	55

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	21:45	5¾	5
21:45	22:00	¼	21
22:00	23:00	1	12
23:00	24:00	1	12

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Circulate casing & condition mud
Held safety meeting before cementing
Rig up cementing head
Displace Completion Fluid 595 m³ 1050 kPa

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickach	4			
DERRICKMAN		Ned Melnyk	4			
MOTORMAN		Mike Guerin	4			
FLOORMAN		Wayne Chretien	4			
FLOORMAN		Adam Murray	4			
LEASEMAN		Mose Funch	4			
Lease		Barry Bertrand	4			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118163

REVISED MARCH 1996

118163

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1613 | WELL NAME AND NO.: Canadian Forest et al Flett N-C1

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N21-E040-12330 | UNIQUE ID.: 300-N21-E040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: M Mudla | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Dotsled Inspection-Weekly (using checklist) — Initial / Initial
(3) HS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 97 | MONTH 06 | DAY 27

RIG NO. 58

FUEL @ 8:00

RIG 9% | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	107.2	BTEC	K55	56	735.05	6.62	735.12

	DC/DP. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT.O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	228.6 DC	276.5	DC	71	203	7 5/8 REG	18	F-1000	Emsco	254
	177.8 DC	179.8	DC	57	175	6 5/8 REG	18	F-1000	Emsco	254
	127	74.4	HW	74	125	4½ IF	126			
		29.62	ER	108	149		126			
		38.10	E3	89	162		135			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																										
MORN.												8														
DAY							1½					7¼														
EVE.					A¾							3¼														
TOTAL					1¾		1½					18½														

TOTALS

SHALE SHAKER(S)

NO. | TYPE
4 | Brandt
5 | Brandt
6 | Brandt
7A | Brandt

SCREENS CHANGED ☐ YES ☒ NO

	TOP	MIDDLE	BOTTOM
4	110	99	84
5	110	99	84
6	110	99	84
7A	110	99	84

RENTALS/SERVICES

	MORN	DAY	EVE
TMJ 134221			
AMT 6710			
Jerry Oil 240			

RIG MANAGER: Lee Scott

PROVINCE: Northwest Territories | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1124

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.
1512 | 15K

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	12	RUN IN CASING TO 1635m

NOTES: Crown Saver, Fastline Clamp, Deadline Anchor

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

MORNING TOUR 00:00 TO 08:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS		YES	NO
DRILLER		Allan Lickoch	8			
DERRICKMAN		Ned Melnyk	8			
MOTORMAN		Mike Guerin	8			
FLOORMAN		Wayne Chretien	8			
FLOORMAN		Adam Murray	8			
LEASEMAN		Moise Munch	8			
Lease		Berry Bertrand	8			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:30	½	13	Install stage tool
08:30	08:45	¼	7	R/S Function Ann 16sec
08:45	16:00	7¼	12	Run Casing F/1635m - 3640m

NOTES: Crown Saver, deadline anchor, fastline clamp

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

DAY TOUR 08:00 TO 20:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS		YES	NO
DRILLER		Ron Cadieux	12			
DERRICKMAN		Jerry Foley	12			
MOTORMAN		Kevin Vandenbrand	12			
FLOORMAN		Julien Sassie	12			
FLOORMAN		Gerald Gilbert	12			
LEASEMAN		Lawrence Loreen	12			
Lease		Bert Timbre	12			
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	22:00	24:00
DENSITY kg/m³	1640	1600
FUNNEL VIS. - (S/L)	89	88
W.L. (cm³)	6.0	6.1
pH	10.5	10.5
PVT:	876	855

MUD MATERIALS ADDED

PRODUCT | AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) | S.P.M. | PUMP NO. 2: LINER SIZE (mm) | S.P.M.
4500 | 159 | 50 | 159 | 50

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	19:15	3¼	12	Run Casing F/3640 - 3730m
19:15	24:00	4¾	5	Circulate & Condition Mud

NOTES: Crown Saver, Fastline Clamp, Deadline Anchor

BOILER: HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

EVENING TOUR 20:00 TO 24:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS		YES	NO
DRILLER		Allan Lickoch	4			
DERRICKMAN		Ned Melnyk	4			
MOTORMAN		Mike Guerin	4			
FLOORMAN		Wayne Chretien	4			
FLOORMAN		Adam Murray	4			
LEASEMAN		Moise Munch	4			
Lease		Berry Bertrand	4			
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118162

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Fl#H N-41

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: NC17-66AC-12330 | UNIQUE ID.: 3CC-NC1-CCAC

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

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flameless & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 08 | DAY 26 | RIG NO. 58

FUEL @ 8:00: RIG 1.08 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
CASING	339.7	315.3	101.2	ISTEC	K55	56	835.55	6.62	735.62
TUBING									
LINER									

REVISED MARCH 1996

118162

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APPROVAL PENDING

KH

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Fl#H N-41 | YEAR 99 | MONTH 08 | DAY 26

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Hayford | RIG NO. 58

PROVINCE: Northwest Territories | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1123

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 Work Overtime	24 Rig to Underway	25	26
MORN.							1¾																1¾	1½	3	
DAY								1½					4¼												3½	
EVE.						3¼							7									¼				
TOTAL						¾	1¾	¾					11¾									¼	1¾	1½	6½	

TOTALS

	NO.	TYPE
	1	Recorder
	SCREENS CHANGED	☑ YES ☐ NO
	TOP	110
	MIDDLE	89
	BOTTOM	89

SHALE SHAKER(S)

MORN.	DAY	EVE.
Tmt 13560		
Amt AC49		
Norm Dr 490		

RENTALS/SERVICES

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	TRIP Record
DENSITY kg/m³	Cal - 1.14 g/cm³
FUNNEL VIS. - (S/L)	Mea - 21.69
W.L. (cm³)	Dif - 2.49 g/cm³
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	01:45	1¾	6
1:45	03:30	1¾	22
03:30	05:00	1½	23
05:00	08:00	3	24

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

R.U.C.M. Flare Mtr
Rig IN Laydown Trucks
LAY down 228mm DC's Flare
Rig up Floor to Run Casing

NOTES: ✓Crown Saver, Deadline Anchor, Fastline Clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
6					

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Lickoch	6		
DERRICKMAN		Ned Melnyk	6		
MOTORMAN		Mike Guerin	6		
FLOORMAN		Wayne Chretien	6		
FLOORMAN		Adam Murray	6		
LEASEMAN		Moise Punch	6		
RIG WATCH					

INJURIES

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	11:30	3½	19
11:30	11:45	¼	7
11:45	16:00	4¼	12

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Rig up to run casing
R/S Func. Blinds 7 Sec
Mtr, Run casing TO 270m

NOTES: ✓Crown Savers, deadline anchor, fast line clamp
Held Safety meeting Prior to Running casing

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Ron Cadieux	12		
DERRICKMAN		Jerry Foley	12		
MOTORMAN		Kevin Vandenbrand	12		
FLOORMAN		Julien Sassie	12		
FLOORMAN		Gerald Gilbert	12		
LEASEMAN		Lawrence Loreen	12		
Lease		Bert Timbre	12		
RIG WATCH					

INJURIES

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
			m
D.P.	STANDS		m
D.P.	SINGLES		m
KELLY DOWN			m
TOTAL			m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	19:00	3	12
19:00	21:15	2¼	21
21:15	22:00	¾	12
22:00	22:45	¾	5
22:45	24:00	1¼	12

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Run Casing
H.S.E safety with Crew & Contractors/Lessees
Run Casing TO 793m
Break Circulation @ 723 & Circulate
Run Casing

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Lickoch	4		
DERRICKMAN		Ned Melnyk	4		
MOTORMAN		Mike Guerin	4		
FLOORMAN		Wayne Chretien	4		
FLOORMAN		Adam Murray	4		
LEASEMAN		Moise Punch	4		
Lease		Bert Timbre	4		
RIG WATCH					

INJURIES

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118161

LICENCE NO.:	WELL NAME AND NO.:
1863	Canadian Forest et al Flett N61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	Akita Drilling LTD
SURFACE LOCATION:	**UNIQUE ID.:**
N61-6040-13330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**
Dave Lauck	Gary Patrick

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/tour/crew)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR	MONTH	DAY
99	08	25

RIG NO.: 58

FUEL @ 8:00

RIG: 1.41 BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228	245.2	DC	74	336	5"H90	26	F-1000	Emsco	254
178	174.8	DC	58	178	5"H90	26	F-1000	Emsco	254
127	74.4	DW	74	165	4½IF	17	F-1000	Emsco	254
1	31.02	E2	108	165		210			
	28.10	E3	89	142		138			

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118161

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APPROVAL PENDING

K16

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest et al Flett N61	99	08	25
OPERATOR	**CONTRACTOR**		
Canadian Forest Oil	Akita Drilling LTD		
RIG MANAGER	**RIG NO.**		
Dave Lauck	58		
PROVINCE	**RIG SAFETY DAYS**		
N.W.T.	1133		

CAMP ☒ YES ☐ NO

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.						3¾	¼			¾												Change out Swivels, Short Trip Compensators 1¼				
DAY						6																			
EVE.						13½	¼																		
TOTAL						23¼	¾			¾												1¼			

TOTALS	SHALE SHAKER(S)	RENTALS/SERVICES	MORN.	DAY	EVE.
8	#1 Derrick	TMJ-1310-3			
8	SCREENS CHANGED ☒ YES ☐ NO	AMJ-3552			
8	TOP 170 / TOP 110				
8	MIDDLE 84 / MIDDLE 84				
24	BOTTOM 84 / BOTTOM 84	Accum oil - 40			

DRILLING ASSEMBLY (At End of Tour) — BIT RECORD — MUD RECORD

NO.	BIT	O.D. mm	LENGTH
1			30 m
1	B.T Sub		.92 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41
1	TBR		1.71 m
9	HW.		91.94 m
1	TBR		1.65 m
		BHA	225.85 m
102	D.P.	STANDS	2936.69 m
X	D.P.	SINGLES	287.47 m
	KELLY DOWN		1.27 m
	TOTAL		3104 m
WT. OF DC	30.000	1000 daN	
WT. OF STRING	115.000	1000 daN	

BIT RECORD	
BIT NO.	Clean out #3
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 12 coal Recent
TORQUE AT BOTTOM: 8000-9000
FILL ON BOTTOM (m):

MUD RECORD			
MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED		SOLIDS CONTROL			
PRODUCT	AMOUNT X UNIT	DESILTER			
		HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
		CENTRIFUGE			
		HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
		HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED — TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

MORNING TOUR

FROM	TO	DR'G RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17400	152	80	152	80

REDUCED PUMP SPEED: 7200 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Gary Patrick

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:15	1¼	22	Change out Swivels, Short Trip Compensators
01:15	02:00	¾	9	Slip & Cut Drill line - Cut 46m
02:00	02:15	¼	7	RIS, Function Annular 18sec ok
02:15	05:30	3¼	6	R.I.H. Fill DP/Fill pipe @ 1730m, 2476m, 2960m
05:30	08:00	2½	5	Break Circulation @ 3080m, Circulate & condition

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

MORNING TOUR 00:00 TO 08:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	8		☒
DERRICKMAN		Mike Watrich	8		☒
MOTORMAN		Wendell Bet Thel	8		☒
FLOORMAN		Larry Stawnichy	8		☒
FLOORMAN		Tim Byers	8		☒
LEASEMAN		Jason Mauye	8		☒
Lease		Jesse Lessard	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour) — BIT RECORD — MUD RECORD

NO.	BIT	O.D. mm	LENGTH
1			30 m
1	Bit Sub		.92 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41
1	TBR		1.71 m
9	HW		91.94 m
1	TBR		1.65 m
		BHA	225.85 m
102	D.P.	STANDS	3004.42 m
X	D.P.	SINGLES	287.47 m
	KELLY DOWN		1.27 m
	TOTAL		3147 m
WT. OF DC	30000	1000 daN	
WT. OF STRING	115000	1000 daN	

BIT RECORD	
BIT NO.	Clean out #3
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 12000 daN / 17000 daN
TORQUE AT BOTTOM: 7000-9000 NM
FILL ON BOTTOM (m):

MUD RECORD			
MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	09:00	12:00	15:00
DENSITY kg/m³	1630	1630	1640
FUNNEL VIS. - (S/L)	80	80	91
W.L. (cm³)	6.7	6.2	6.2
pH	10.0	10.0	10.5
pVT m³	76.4	76.8	76.8

MUD MATERIALS ADDED		SOLIDS CONTROL			
PRODUCT	AMOUNT X UNIT	DESILTER			
Starpak	8 sxs	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
Drispac	2 sxs	CENTRIFUGE			
Lig	4 sxs	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
Lime	3 sxs				
Soltex	2 sxs				
Barrett	2 P.A.				
Barite	1 P.A.	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED — TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DAY TOUR

FROM	TO	DR'G RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17500	152	80	152	80

REDUCED PUMP SPEED: 7200 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	16:00	8	5	CIRCULATE & CONDITION MUD

NOTES: #3 Pump Liner cap gasket. √Crown Saver, Fastline Clamp, Deadline Anchor. √

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135 000 daN		A690

DAY TOUR 08:00 TO 16:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Lickoch	8		☒
DERRICKMAN		Neal Melnyk	8		☒
MOTORMAN		Mike Gueron	8		☒
FLOORMAN		Wayne Chicken	8		☒
FLOORMAN		Sam Murray	8		☒
LEASEMAN		Morse York	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour) — BIT RECORD — MUD RECORD

NO.	BIT	O.D. mm	LENGTH
1			.30 m
1	B.T Sub		.92 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41
1	TBR		1.71 m
9	H.W.		91.94 m
1	TBR		1.65 m
		BHA	225.85 m
102	D.P.	STANDS	3036.69 m
X	D.P.	SINGLES	307.47 m
	KELLY DOWN		15.54 m
	TOTAL		3147 m
WT. OF DC	30000	1000 daN	
WT. OF STRING	115000	1000 daN	

BIT RECORD	
BIT NO.	Clean out #3
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 13000 daN / 17000 daN
TORQUE AT BOTTOM: 7000-9000 NM
FILL ON BOTTOM (m):

MUD RECORD			
MUD TYPE	☐ WATER BASED	☐ OIL BASED	
TIME	16:30		
DENSITY kg/m³	1640 KHO		
FUNNEL VIS. - (S/L)	87		
W.L. (cm³)	6.5		
pH	9.0		
pVT m³	79.5		

MUD MATERIALS ADDED		SOLIDS CONTROL			
PRODUCT	AMOUNT X UNIT	DESILTER			
Lime	2 sks	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
BARITE	85 sks	CENTRIFUGE			
		HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
		HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED — TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

EVENING TOUR

FROM	TO	DR'G RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17300	152	80	152	80

REDUCED PUMP SPEED: 7200 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:45	1¾	5	Circulate & condition mud @ 3100 m
17:45			6	R.I.H. 2 stds to 3147 Tag Bottom No Fill
	18:30	¾		POH 5 stds √Flow
18:30	18:45	¼	7	Rig Service func. Top pipe 8 sec
18:45	22:00	3¼	6	POH √Flow 30 stds pump pill POH √Flow
22:00	22:15	¼	23	BOP Drill well secure 40 sec
22:15	24:00	1¾	6	P.O.H.

NOTES: √Crown Saver, Deadline anchor, Fast line clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000		

EVENING TOUR 16:00 TO 24:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Ron Cacheux	8		☒
DERRICKMAN		Terry Foley	8		☒
MOTORMAN		Kevin Vandenbrand	8		☒
FLOORMAN		Julien Sassie	8		☒
FLOORMAN		Gerald Gilbert	8		☒
LEASEMAN		Lawrence Loreen	8		☒
Lease		Bert Timbre	8		☒
RIG WATCH					

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118160

LICENCE NO.:	WELL NAME AND NO.:
1863	Canadian Forest et al Flett N61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	Akita Drilling LTD
SURFACE LOCATION:	**UNIQUE ID.:**
N61-6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**
	Dave Lauck

DAILY CHECKS — OPR. — R.M.

(1) Daily Walk Around Inspection — Initial — Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial — Initial
(3) HS Signs Posted (if required) — Initial — Initial
(4) Well License & Stick Diagram Posted — Initial — Initial
(5) Flare Lines Staked — Initial — Initial
(6) BOP Drills Performed — Initial — Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial — Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	24

RIG NO. 58

FUEL @ 8:00

RIG 1.54 — BOILER

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203	247.5	DC	71	273	6 5/8 REG	36	F-1000	Emsco	254
178	174.8	DC	68	178	6 5/8 REG	19	F-1000	Emsco	254
127	74.4	HW	74	168	4 1/2 IF	18			
	53.62	E2	108	162	T	240			
	38.10	E3	99	162		158			

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118160

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DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest et al Flett N61	99	08	24
OPERATOR	**CONTRACTOR**		
Canadian Forest Oil	Akita Drilling LTD		
RIG MANAGER		**RIG NO.**	
Dave Lauck		58	
PROVINCE	CAMP ☒ YES ☐ NO	**RIG SAFETY DAYS:**	
N.W.T.		1131	

TIME-HRS

CODE NO.	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
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Change Swivels				
MORN.											8															
DAY											8															
EVE.					1/4	2	1/4				2											3 1/2				
TOTAL					1/4	2	1/4				18											3 1/2				

TOTALS

8	
8	
8	
24	

SHALE SHAKER(S)

NO.	TYPE
2	Derrick

SCREENS CHANGED ☐ YES ☒ NO

TOP	210	TOP	210
MIDDLE	175	MIDDLE	175
BOTTOM	175	BOTTOM	175

RENTALS/SERVICES

	MORN	DAY	EVE
TMJ. 127494			
AMJ-7321			
Accum oil - 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.
T_i	T_o	MDC	LOC					

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	00:00
DENSITY kg/m³	1635
FUNNEL VIS. - (S/L)	90
W.L. (cm³)	6.0
pH	10.5
PVT	67.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17400	152	80	152	80

REDUCED PUMP SPEED

	@		@	
7000		80		

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	08:00	8	11	Run in LOG #6 AGR, SED. Log From 3140m

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4014 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8			☒
DERRICKMAN		Mike Watrich	8			☒
MOTORMAN		Wendell Bettler	8			☒
FLOORMAN		Larry Stawnichy	8			☒
FLOORMAN		Tim Byers	8			☒
LEASEMAN		Jason Mouye	8			☒
Lease		Jesse Lessard	8			☒
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.
T_i	T_o	MDC	LOC					

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

	@		@	

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
8:00	8:30	1/2	11	Log #6 AGR SED
8:30	12:00	3 1/2		Pull out Logs & Lay Down
12:00	16:00	4	11	Run in Log #7 VSP

NOTES √Crown Saver, Fastline Clamp Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		Allan Liekech	12			☒
DERRICKMAN		Ned Melnyk	12			☒
MOTORMAN		Mike Guerin	12			☒
FLOORMAN		Wayne Chretien	12			☒
FLOORMAN		Adam Murray	12			☒
LEASEMAN		Meise Punch	12			☒
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.35 m
1	Bit Sub	(Float)	.92 m
3	228 DC		27.20 m
1	JAR		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.59 m
1	TBR		1.71 m
9	HW		84.34 m
1	TBR		1.65 m
		Drill Pipe	3055.15 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	Clean cut #3
SIZE (mm)	311.2
IADC CODE	617X
MFG.	Smith
TYPE	FA
SERIAL NO.	LKE869
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.
T_i	T_o	MDC	LOC					

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

	@		@	

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:00	1	11	RUN LOG #7 VSP
17:00	18:00	1	11	RIG CUT LOGGERS
18:00	20:00	2	6	RIH TO 980m FLOW
20:00	20:15	1/4	5	Fill Pipe Circulate out air
20:15	23:45	3 1/2	03	Slip on Drilline Change out swivels
23:45	24:00	1/4	7	R/S, Function Remote Choke

NOTES √Crown Saver, Fastline Clamp Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4014 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	4			☒
DERRICKMAN		Mike Watrich	4			☒
MOTORMAN		Wendell Bettler	4			☒
FLOORMAN		Larry Stawnichy	4			☒
FLOORMAN		Tim Byers	4			☒
LEASEMAN		Jason Mouye	4			☒
Lease		Jesse Lessard	4			☒
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118159

LICENCE NO.: 1863
WELL NAME AND NO.: Canadian Forest et al Flett N61
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: N61-6040-12330
UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Louck

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) HS Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines
(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 08 | DAY 23
RIG NO. 58
FUEL @ 8:00
RIG .72 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228	94.54	DC	71.4	305	7 5/8 REG	9			
178	174.8	DC	58	178	5 1/2 REG	26	F-1000	Emsco	254
127	74.4	HW	74	165	4½ IF	17	F-1000	Emsco	254
	29.09	E2	108	162		218			
	30.10	E3	89	162		138			

REVISED MARCH 1996

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APPROVAL PENDING

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DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N61 | YEAR 99 | MONTH 08 | DAY 23
OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD
RIG MANAGER: Dave Louck | RIG NO. 58
PROVINCE: N.W.T. | CAMP X YES ☐ NO | RIG SAFETY DAYS: 1190

TIME-HRS

	CODE NO.	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
		OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.													8														
DAY													6														
EVE.													8														
TOTAL													22														

TOTALS

8		
8		
8		
24		

SHALE SHAKER(S)

NO.	TYPE
2	Derrick
SCREENS CHANGED	☐ YES X NO
TOP	210
MIDDLE	175
BOTTOM	175

RENTALS/SERVICES

TMJ-127211
AmJ-7038
AccentmJ-40

	MORN	DAY	EVE
HRS			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.
SIZE (mm)
IADC CODE
MFG.
TYPE
SERIAL NO.
JETS (mm)
DEPTH OUT (m)
DEPTH IN (m)
TOTAL METRES DRILLED (m)
TOTAL HOURS RUN

CUTTING STRUCTURE T_1	T_0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	00:00
DENSITY kg/m³	1635
FUNNEL VIS. - (S/L)	90
W.L. (cm³)	6.0
pH	10.5
PVT	67.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17400	152	90	152	90

REDUCED PUMP SPEED
7000 @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00		3½	11
	03:30		
03:30	08:00	4½	11

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Log hole with Computalog Log #3 STI, MDA SPED, CNT, UGR, Caliper
Bridged @ 2600m, Log up From 2595m.
Remove Betty Springs Chance bottom Centralizer Springs, Run in Hole To 3146.80m
Log #4 STI, MDA SPED, CNT, UGR, Caliper

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4014 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Gary Patrick	8			
DERRICKMAN		Mike Watrich	8			
MOTORMAN		Wendell Bethel	8			
FLOORMAN		Larry Stawnichy	8			
FLOORMAN		Tim Byers	8			
LEASEMAN		Jason Mouye	8			
Lease		Jesse Lessard	8			
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

DAY TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED
@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00		4	11
12:00	15:30	3½	11
15:30	16:00	½	11

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Log hole with computalog
Log #4 STI, MDA SPED, CNT, UGR, CALIPER
Pick up Tools for next Log

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4014 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickacz	12			
DERRICKMAN		Ned Melnyk	12			
MOTORMAN		Mike Gillam	12			
FLOORMAN		Wayne Chretien	12			
FLOORMAN		Adam Murray	12			
LEASEMAN		Morse Punch	12			
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17400	152	90	152	90

REDUCED PUMP SPEED
7000 @ 90 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	24:00	8	11

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

R.I.H. To 3140m, SED, UGR, 2nd log
Run #5, Pull out and change Tool order
Trouble start Problem with Gamma ray Tool
Change out Gamma Ray, Run in Hole, Run #6
Run #6 - SED, UGR

NOTES: √Crown Saver Fastline Clamp Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4014 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Gary Patrick	4			
DERRICKMAN		Mike Watrich	4			
MOTORMAN		Wendell Bethel	4			
FLOORMAN		Larry Stawnichy	4			
FLOORMAN		Tim Byers	4			
LEASEMAN		Jason Mouye	4			
Lease		Jesse Lessard	4			
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

FOLD HERE →

118158

REVISED MARCH 1996

118158

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ETAL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Leuck

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection — Initial DL / Initial DL
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) HS Signs Posted (if required) — Initial / Initial
(4) Well License & Slick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial DL
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 08 | DAY 22 | RIG NO. 58

FUEL @ 8:00 RIG 1.00 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (DP)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	228 DC	245.5	DC	74	228	6⅝ REG	8	F-1000	Emsco	254
2	178 DC	174.8	DC	58	178	5½ FH	30	F-1000	Emsco	254
3	127	74.4	HW	76	165	4½ IF	17			
4		34.02	E2	100	165		318			
5		38.10	E3	89	165		130			

TIME-HRS

CODE NO.	1 OFFL	2 TRIP TOP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.						4	½	¼														Trip P.U. 2¼	Flow 1			
DAY						3¾	4½																			
EVE.							4¼					3¾														
TOTAL						7¾	9	¼				3¾										2¼	1			

TOTALS	SHALE SHAKER(S)	RENTALS/SERVICES
8	NO. DRC: Derrick	Derrick: TMT - 127306
8	SCREENS CHANGED ☐ YES ☒ NO	AMT - 7033
8	TOP 210 / MIDDLE 175 / BOTTOM 175	Accum oil - 40
24	TOP 210 / MIDDLE 175 / BOTTOM 175	

MORN | DAY | EVE

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	BIT SUB		.92 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	225.85 m
103	D.P.	STANDS	m
X	D.P.	SINGLES	2936.69 m
Stickup	KELLY/DGMN		15.54 m
	TOTAL		3147.08 m
WT. OF DC	30000		1000 daN
WT. OF STRING	115000		1000 daN

BIT RECORD

BIT NO.	Clean out #9
SIZE (mm)	311.2
IADC CODE	617X
MFG.	Smith
TYPE	FH
SERIAL NO.	LK8869
JETS (mm)	3X15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Clean out
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m) 0

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00
DENSITY kg/m³	1650
FUNNEL VIS. - (S/L)	98
W.L. (cm³)	6.3
pH	10.5
PVT m³	90.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lignite	4 SX
Desco	1 SX
Corinox	1 pail
Sodaash	1 SX
Biocide	2 pail
BARite	54 SX
MICA	167 SX
Driscose	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2½	1650	1370	2050
		NS-CENT	
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2½	1520	1110	2050

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17400	152	90	152	80

REDUCED PUMP SPEED

7000 @ 90 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:30	½	6	R.T.H. Flow/PE Nipple @ 3960m
00:30	03:00	2½	5	Circulate & Condition mud. NO Fill. Lost Circulation @ 02:45 mix mica
03:00	05:15	2¼	12	Monitor hole, Mix L.C.M. P.U.
05:15	06:15	1	5	Pump L.C.M. P.U.
06:15	06:45	½	23	Flow/
06:45	07:00	¼	5	Run To Bottom, Pick up Pull Back
07:00	07:15	¼	7	RIS Function, Remote choke.
07:15	7:45	½	23	Flow/ monitor hole for loss
7:45	08:00	¼	5	Circ. & Cond mud

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			145000 DAN		3905 kPA

MORNING TOUR 00:00 TO 08:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Larry Stawnichy	8		LS
FLOORMAN		Tim Byers	8		TB
LEASEMAN		Jason Mouye	8		JM
Lease		Jesse Lessard	8		JL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT | CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT SUB	(Float)	.92 m
3	228 DC		27.20 m
1	JAR		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O TBR		1.71 m
9	HWDP		81.94 m
1	TBR		1.65 m
		BHA:	225.85 m
103	D.P.	STANDS	m
X	D.P.	SINGLES	2936.69 m
Stick up	KELLY DOWN		15.54 m
	TOTAL		3147.08 m
WT. OF DC	30000		1000 daN
WT. OF STRING	115000		1000 daN

BIT RECORD

BIT NO.	Clean out #10
SIZE (mm)	311.2
IADC CODE	617X
MFG.	Smith
TYPE	FH
SERIAL NO.	LK8869
JETS (mm)	3X15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Clean out
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	9:30
DENSITY kg/m³	1635
FUNNEL VIS. - (S/L)	90
W.L. (cm³)	6.0
pH	10.5
PVT m³	85.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
MICA	294 SX
Caustic	4 SX
Driscose	2 SX
Lig	4 SX
Lime	24 SX
Biocide	1 Pail
Corinox	1 Pail
SUPA	1 SX
Barite	375 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17200	152	80	152	80

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
06:00	11:15	3¼	5	CIRCULATE & CONDITION MUD
11:15	11:45	½	5	Displace L.C.M. Pill @ 3132m.
11:45	15:15	3½	6	P.O.H. Slow. Flow/ Pump pill
15:15	16:00	¾	6	Flow/ 630 stds mix & pump pill #2

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			160000		

DAY TOUR 08:00 TO 20:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		ALLAN LICKACH	12		AL
DERRICKMAN		NED MELNYK	12		NM
MOTORMAN		MIKE GUERIN	12		MG
FLOORMAN		WAYNE CHRETIEN	12		WC
FLOORMAN		ADAM MURRAY	12		AM
LEASEMAN		MOISE HUNCH	12		MH
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT | CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	Trip Rec
DENSITY kg/m³	MAX - 20.13
FUNNEL VIS. - (S/L)	COL - 18.19
W.L. (cm³)	DIFF - 1.94
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	20:15	4¼	6	T.O.O.H. Flow/ 45, HWDP out of Hole.
20:15	24:00	3¾	11	Rig up loggers, Run in To Log. Logs - STI DDA Sped CNT, UGR Caliper. Bridged off @ 3600m. Log up From 3595m

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4014 kPA

EVENING TOUR 20:00 TO 24:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bethel	4		WB
FLOORMAN		Larry Stawnichy	4		LS
FLOORMAN		Tim Byers	4		TB
LEASEMAN		Jason Mouye	4		JM
Lease		Jesse Lessard	4		JL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☑ INVERT | CREW SAFETY DAYS

FOLD HERE →

118157

REVISED MARCH 1996

118157

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863
WELL NAME AND NO.: Canadian Forest et al FLETT N61
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: N61-6040-12330
UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H/S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually inspect BOP's - Pipe/Hex & Degasser Lines
(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 08 | DAY 21
RIG NO. 58
FUEL @ 8:00
RIG 1.30 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BTC	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228 DC	345.5	DC	71	279	7 5/8 REG	26	F-1000	EMSCO	254
178 DC	174.8	DC	58	178	5 1/2 IF	26	F-1000	EMSCO	254
HW	74.4	HW	74	165	4 1/2 IF	17			
139.7	99.02	E-75	108	162		218			
	38.10	E-75	89	162		138			

TIME-HRS

CODE NO.	1 OPER.	2 TRIP UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.						7 3/4		1/4																		
DAY						2 1/4	5 1/2	1/4																		
EVE.						4	4																			
TOTAL						13 3/4	9 1/2	1/2																		

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO. 8	MAKE Derrick	T mT - 124792			
SCREENS CHANGED ☐ YES ☒ NO		A mT - 4619			
8 TOP	210 TOP 210				
8 MIDDLE	175 MIDDLE 175				
24 BOTTOM	175 BOTTOM 175	Accum Oil - 40			

WELL NAME & NO.: Canadian Forest et al FLETT N61 | YEAR 99 | MONTH 08 | DAY 21
OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD
RIG MANAGER: DAve Lauck | RIG NO. 58
PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1118

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.30 m
1	BIT SUB		.92 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O TBR		1.41 1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA:	225.85 m
102	D.P.	STANDS	m
X	D.P.	SINGLES	2936.69 m
Stickup	KELLY/DOWN		15.54 m
	TOTAL		3147.00 m
WT. OF DC			30000 1000 daN
WT. OF STRING			115000 1000 daN

BIT RECORD

BIT NO.	Clean out #2
SIZE (mm)	311.2
IADC CODE	617X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Clean out
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 13000 ↑ 12000 ↓ DAN
TORQUE AT BOTTOM 7500 - 9000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	02:00	04:00	06:00
DENSITY kg/m³	1580	1595	1600
FUNNEL VIS. - (S/L)	88	90	90
W.L. (cm³)	6.5	6.3	6.1
pH	10.0	10.0	10.0
PVT m³	983	94.3	96.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	5 1/2 SXS
Lignite	3 SX
Dr. Spac	3 SX
Starpac	6 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16400	152	80	152	80

REDUCED PUMP SPEED: 7000 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3000		

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	05:00	5	5	Circulate & condition mud.
05:00	05:15	1/4	7	R/S. Function Annular, 18 sec ck's / RSPP
05:15	08:00	2 3/4	5	Circulate & Condition mud.
				Pump #2 - Changed 1 SW Head.

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000 DAN		

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		
DERRICKMAN		Mike Watrich	8		
MOTORMAN		Wendell Bethel	8		
FLOORMAN		Larry Stawnichy	8		
FLOORMAN		Tim Byers	8		
LEASEMAN		Jason Mouye	8		
Lease		Jesse Lessard	8		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.30 m
1	BIT SUB		.92 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O TBR		1.41 1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA:	225.85 m
102	D.P.	STANDS	m
X	D.P.	SINGLES	2936.69 m
Stickup	KELLY/DOWN		15.54 m
	TOTAL		3147.00 m
WT. OF DC			30000 1000 daN
WT. OF STRING			115000 1000 daN

BIT RECORD

BIT NO.	Clean out #2
SIZE (mm)	311.2
IADC CODE	617X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Clean out
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 15000 ↑ 14000 ↓
TORQUE AT BOTTOM Beco - 10000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	08:30		
DENSITY kg/m³	1610		
FUNNEL VIS. - (S/L)	94		
W.L. (cm³)	6.3		
pH	10.0		
PVT m³	99.5		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	630 sxs
Lime	2 sxs
Gel	4 sxs
Beco	1 sx
Drispac	3 sxs

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16400	152	80	152	80

REDUCED PUMP SPEED: 7000 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:45	1 3/4	5	CIRCULATE & CONDITION MUD
09:45	13:15	3 1/2	6	Flow Check, 40 std. Wiper Trip, Flow
13:15	13:30	1/4	7	R/S Function BTM Pipe Rams Close
13:30	15:30	2	6	R.I.H. Break circ @ 3134m Wash to 3147
15:30	16:00	1/2	5	CIRCULATE & CONDITION MUD
				TRIP RECORD
				Out = 5.36 m³
				In = 7.34 m³
				Diff = 1.98 m³

NOTES: √ CROWN SAVER, FASTLINE CLAMP, DEADLINE ANCHOR

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			155000		

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		ALLAN LICKOCH	12		
DERRICKMAN		NED MELNYK	12		
MOTORMAN		MIKE GUERIN	12		
FLOORMAN		WAYNE CHRETIEN	12		
FLOORMAN		ADAM MURRAY	12		
LEASEMAN		MOISE FUNCH	12		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1			.30 m
1	BIT SUB		.92 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O TBR		1.41 1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	225.85 m
102	D.P.	STANDS	m
X	D.P.	SINGLES	2936.69 m
Stickup	KELLY/DOWN		15.54 m
	TOTAL		3147.00 m
WT. OF DC			30000 1000 daN
WT. OF STRING			115000 1000 daN

BIT RECORD

BIT NO.	Clean out #2
SIZE (mm)	311.2
IADC CODE	617X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Clean out
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 13000 ↑ 13000 ↓
TORQUE AT BOTTOM 8000 - 10000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	17:00	20:00	
DENSITY kg/m³	1645	1665	
FUNNEL VIS. - (S/L)	93	115	
W.L. (cm³)	6.3	6.3	
pH	10.5	10.5	
PVT m³	97.0	99.2	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17400	152	80	152	80

REDUCED PUMP SPEED: 7000 @ 80 @ 100

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
TRIP REC		
Out - 8.86		
In - 5.84		
Diff 3.02		

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	20:00	4	5	Circulate & Condition Mud
20:00	22:45	2 3/4	6	Flow / P.O.O.H. Flow @ 5 stds, 37 stds.
22:45	24:00	1 1/4	6	R.I.H., Flow @ Csg. Shoe @ 2590m.

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			150000 DAN		3797 PPA

EVENING TOUR TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	4		
DERRICKMAN		Mike Watrich	4		
MOTORMAN		Wendell Bethel	4		
FLOORMAN		Larry Stawnichy	4		
FLOORMAN		Tim Byers	4		
LEASEMAN		Jason Mouye	4		
Lease		Jesse Lessard	4		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

FOLD HERE →

118156

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

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

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) HS Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually inspect BOPs - Flarelines & Degasser Lines
(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR	MONTH	DAY
99	08	20

RIG NO. 58 — FUEL @ 8:00 — RIG 61 — BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

	DC/DP SIZE	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	245	214.0	DC	79.38	177.8	4½FH	17	F-1000	Emsco	254
	178	134.8	DC	58	178	5½IF	26	F-1000	Emsco	254
	127	74.4	HW	76	165	4½IF	17			
		39.02	E2	108	168		218			
	1	38.10	E2	89	162		128			

REVISED MARCH 1996

118156

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N61 | YEAR: 99 | MONTH: 08 | DAY: 20

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD

RIG MANAGER: Dave Louck | RIG NO.: 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 117

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT DRIL. LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
	MORN.					3	4	1/4		3/4															
	DAY					8																			
	EVE.					7 3/4		1/4																	
	TOTAL					19 3/4	4	1/2		3/4															

TOTALS

SHALE SHAKER(S)

NO.	TYPE
1	Derrick
2	Derrick

SCREENS CHANGED ☐ YES ☒ NO

	TOP	MIDDLE	BOTTOM
8	210	175	175
8	210	175	175
24	175	175	175

RENTALS/SERVICES

T mT - 121335
A mT - 1162
Accum oil - 40

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1	BIT		.30 m
1	BIT SUB		.92 m
3	228 DC		97.30 m
1	JAR		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	305.85 m
102	D.P.	STANDS	m
X	D.P.	SINGLES	2936.69 m
	KELLY DOWN		15.54 m
	TOTAL		3147.00 m
WT. OF DC	30000	1000 daN	
WT. OF STRING	117000	1000 daN	

BIT RECORD

BIT NO.	Clean out #2
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3 X 15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Clean out
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 13000↑ 12000↓
TORQUE AT BOTTOM: 8500-10000 Nm
FILL ON BOTTOM (m): 0

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	06:30
DENSITY kg/m³	1520
FUNNEL VIS. - (S/L)	80
W.L. (cm³)	8.5
pH	10.0
PVT	96.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	161 SX
Lignite	3 SX
Lime	1 SX
Soltex	2 pails
Safe Kill 1	2 SX
Biocide	1 pail
Drispac	1 SX
Staflo	2 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED: 6700 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	1/4	6	R.I.H. Flow √ & Fill Pipe @ 810m
00:15	01:00	3/4	9	Slip cut 30m of Drill line.
01:00	04:45	3 3/4	6	R.I.H., Flow √ & F. Il pipe @ 1615m, 2410m
04:45	07:45	3	5	Circulate and condition mud, NO F. Il
07:45	08:00	1/4	7	R.S, Function Bottom pipe 6 sec. ck

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor, Function Remote choke.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140 000 DAN		4843 KPA

MORNING TOUR 00:00 TO 08:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Larry Stawnichy	8		LS
FLOORMAN		Tim Byers	8		TB
LEASEMAN		Jason Mouye	8		JM
Lease		Jesse Lessard	8		JL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1			.30 m
1	BIT SUB		.92 m
3	228 DC		97.30 m
1	JAR		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	305.85 m
102	D.P.	STANDS	m
X	D.P.	SINGLES	2936.69 m
	KELLY DOWN		15.54 m
	TOTAL		3147.00 m
WT. OF DC	30000	1000 daN	
WT. OF STRING	117000	1000 daN	

BIT RECORD

BIT NO.	Clean out #2
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3 X 15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Clean out
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 11000↓ 13000↑
TORQUE AT BOTTOM: 8000-10000 NM
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	09:10	12:10	15:00
DENSITY kg/m³	1520	1540	1545
FUNNEL VIS. - (S/L)	81	77	78
W.L. (cm³)	8.0	8.0	7.9
pH	10.0	10.0	10.0
PVT	89.6	90.4	93.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	3 Pails
Soltex	3 SX
Lig	6 SX
Drispac	2 SX
Lime	5 SX
Biocide	1/2 P
Barite	630
Gel	4 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
Dewpoint			

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

STARTED X2 pumps

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED: 6700 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	16:00	8	5	CIRCULATE & CONDITION MUD

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			130 000 DAN		4663 KPA

DAY TOUR 08:00 TO 20:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Liekrch	12		AL
DERRICKMAN		Ned Melnyk	12		NM
MOTORMAN		Mike Guerin	12		MG
FLOORMAN		Wayne Chretien	12		WC
FLOORMAN		Adam Murray	12		AM
LEASEMAN		Moise Punch	12		MP
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1			.30 m
1	BIT SUB		.92 m
3	228 DC		97.30 m
1	JAR		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	305.85 m
102	D.P.	STANDS	m
X	D.P.	SINGLES	2936.69 m
	KELLY DOWN		15.54 m
	TOTAL		3147.00 m
WT. OF DC	30000	1000 daN	
WT. OF STRING	117000	1000 daN	

BIT RECORD

BIT NO.	Clean out #2
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3 X 15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Clean out
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 13000↑ 12000↓
TORQUE AT BOTTOM: 8000-10000 NM
FILL ON BOTTOM (m): —

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	18:10	22:00	24:00
DENSITY kg/m³	1565	1570	1570
FUNNEL VIS. - (S/L)	82	84	90
W.L. (cm³)	8.0	6.6	6.6
pH	10.5	10.5	10.5
PVT	82.8	93.6	96.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	168 SX
Lignite	2 SX
Drispac	2 SX
Staflo	4 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16200	158	80	152	80

REDUCED PUMP SPEED: 7000 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	23:45	7 3/4	5	Circulate & Condition Mud
23:45	24:00	1/4	7	R.I.S, Function Upper pipe Rams 6 Secs √ RSP
				Pump #1 - Changed 2 S.W. Heads
				Held Competency Training meeting

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			130 000 DAN	Fall Arrest	4489 KPA

EVENING TOUR 20:00 TO 24:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bethel	4		WB
FLOORMAN		Larry Stawnichy	4		LS
FLOORMAN		Tim Byers	4		TB
LEASEMAN		Jason Mouye	4		JM
Lease		Jesse Lessard	4		JL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118155

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Wayne Lauck

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	19

RIG NO. 58

FUEL @ 8:00

RIG .91 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	795.12

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	203	95.5	DC	73	235	7⅝ H90	19			
	178	134.8	DC	58	178	5½ H90	36	F-1000	Emsco	254
	127	74.7	N/W	54	165	4½ IF	67	F-1000	Emsco	356
	127	82.09	E2	108	162	T	218			
	127	88.10	E3	89	162	T	138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.				¼		4	3½	¼														Rig Drill			
DAY						3¾	6					1										¼			
EVE.						13¼	¼					6													
TOTAL				¼		43¼	11¾	½				7										¼			

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE				
2	Derrick Derrick	T.m.J= 120172			
SCREENS CHANGED ☐ YES ☒ NO		A.m.J. 7200			
8	TOP 210	TOP 210			
8	MIDDLE 175	MIDDLE 175			
24	BOTTOM 175	BOTTOM 175			
		Accum oil - 40			

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118155

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al FLETT N61 | YEAR 99 | MONTH 08 | DAY 19

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD

RIG MANAGER: DAVE Lauck | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1116

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	Bit Sub		.92 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
102	D.P.	STANDS	BHA-225.85 m 9227.33 m
	D.P.	SINGLES	m
Sticking	KELLY DOWN		6.18 m
	TOTAL		3147.00 m

WT. OF DC 30000 1000 daN

WT. OF STRING 117000 1000 daN

BIT RECORD

BIT NO.	28RRC Cleanout #1
SIZE (mm)	311.2
IADC CODE	617X
MFG.	SMITH
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3K15.9
DEPTH OUT (m)	Cleanout
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 13000↑

TORQUE AT BOTTOM 9000-11000 Nm

FILL ON BOTTOM (m) 0

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	06:40
DENSITY kg/m³	1510
FUNNEL VIS. - (S/L)	80
W.L. (cm³)	9.0
pH	10.5
PVT m³	99.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispac	2 SX
Lignite	2 SX
Starpac	4 SX
Gel	4 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			10	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15500	152	80	152	80

REDUCED PUMP SPEED

7300 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3100	1.5	
3147	1.5	

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:30	2½	6	R.I.H. Flow √ F.Fill pipe @ 1670m, 2475m.
02:30	02:45	¼	3	Tag bridge @ 2699m. Ream F/2699-2704m
02:45	03:45	1	6	R.I.H. Flow √ F.Fill pipe @ 3590m.
03:45	06:00	2¼	5	Wash 20m to Bottom, NO Fill, Circulate
06:00	06:15	¼	7	RIS, Function Annular 18 sec cls √ BSPP
06:15	08:00	1¾	5	Circulate and condition mud.

NOTES: √ Crown Saver, Fastline Clamp Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000 DAN		4915 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Larry Stawnichy	8		LS
FLOORMAN		Tim Byers	8		TB
LEASEMAN		Jason Mouye	8		JM
Lease		Jesse Lessard	8		JL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	BIT SUB		.92 m
3	228 DC		27.30 m
1	JARS		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
102	D.P.	STANDS	BHA 225.85 m 9227.33 m
	D.P.	SINGLES	m
Trick up	KELLY DOWN		6.18 m
	TOTAL		3147.00 m

WT. OF DC 30000 1000 daN

WT. OF STRING 117000 1000 daN

BIT RECORD

BIT NO.	28RRC Cleanout #1
SIZE (mm)	311.2
IADC CODE	617X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3K15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	08:00
DENSITY kg/m³	1510
FUNNEL VIS. - (S/L)	80
W.L. (cm³)	9.8
pH	10.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	85 sxs

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15500	152	80	152	80

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
Trip tripod		
Out	18.15 m³	
In	19.51 m³	
Diff.	1.36 m³	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:45	¾	5	Circulate & condition mud
08:45	12:15	3½	2	Flow √ Pump Pill POOH 5 stds Flow √ POOH. to 1300m Flow
12:15	12:30	¼	22	BOP Drill, well secure 65 sec,
12:30	13:00	½	5	Circ. thru choke, Flow check, blow out of hole
13:00	16:00	1	11	Rig up to Log w/ computalog

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	12		AL
DERRICKMAN		Ned Melnyk	12		NM
MOTORMAN		Mike Guerin	12		MG
FLOORMAN		Wayne Chretien	12		WC
FLOORMAN		Adam Murray	12		AM
LEASEMAN		Moise Runch	12		MR
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	BIT SUB		.92 m
3	228 DC		27.30 m
1	JAR		5.75 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
102	D.P.	STANDS	BHA-225.85 m 9227.33 m
	D.P.	SINGLES	m
Trick up	KELLY DOWN		6.18 m
	TOTAL		3147.00 m

WT. OF DC 30000 1000 daN

WT. OF STRING 117000 1000 daN

BIT RECORD

BIT NO.	Cleanout #2
SIZE (mm)	311.2
IADC CODE	617X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3K15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3147
TOTAL METRES DRILLED (m)	Cleanout
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00			11	R.I.H with Log STI, MDA Sped, CNT, HGR, Caliper
	22:00	6	11	Bridged off @ 2535m, Pull out Logs
22:00	22:15	¼	7	RIS, Function Blind Rams, 65 sec cls.
22:15	24:00	1¾	6	make up B.T. R.I.H., Flow √ F.Fill pipe @ 810m

NOTES: √ Crown Saver Fastline Clamp Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			51000 DAN		4915 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bethel	4		WB
FLOORMAN		Larry Stawnichy	4		LS
FLOORMAN		Tim Byers	4		TB
LEASEMAN		Jason Mouye	4		JM
Lease		Jesse Lessard	4		JL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118154

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etail Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	18

RIG NO.: 58

FUEL @ 8:00

RIG: 106 | BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.3	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	228	211.5	D-E	76	254	5" H90	36	F-1000	Emsco	254
2	178	179.8	D-E	58	178	5" H90	17	F-1000	Emsco	254
3	127	74.4	H-40	94	162		19			
4		34.03	E-3	108	162	4½ IF	318			
5		38.10	E-3	89	162		338			

REVISED MARCH 1996

118154

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N-61	99	08	18
OPERATOR: Canadian Forest Oil	CONTRACTOR: AKita Drilling LTD.		
RIG MANAGER: Dave Lauck		RIG NO.: 58	
PROVINCE: N.W.T	CAMP ☒ YES ☐ NO	RIG SAFETY DAYS: 1115	

TIME-HRS

CODE NO.	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
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	DIS Tools	Top Sub			
MORN.						3	1/4				2½											2¼				
DAY											8															
EVE.											4												1			
TOTAL						3¾	1/4				14½											2¼	1			

TOTALS

	SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE					
2	Derrick	Derrick	T mJ-116867			
8	SCREENS CHANGED ☐ YES ☐ NO		A mJ-3895			
8	TOP 210	TOP 210				
8	MIDDLE 175	MIDDLE 175				
24	BOTTOM 175	BOTTOM 175	ACC 0:1 60			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m

WT. OF DC — 1000 daN
WT. OF STRING — 1000 daN

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	32
TOTAL HOURS RUN	18½

CUTTING STRUCTURE								
T_i	T_o	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
2	3	WT	A	E	I	BT	TD	1.73

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

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DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
Top Record		
Cal 18.95 m³		
ACT 21.55 m³		
Diff 2.60 m³		

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	00:45	¾	6
00:45	01:00	¼	7
01:00	03:15	2¼	6
03:15	05:30	2¼	22
05:30	08:00	2½	11

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Cont to P.O.H To log 80 stds ✓Flow
R/S function Bot pipe 8sec
Cnt to P.O.H ✓Flow @ H.W.T. Retrieve Can Ring
P.O.H. ~~Laydown Dir. Tools~~ ✓F low, Blinds 7sec
Rig up to Log w/Computalog
Run #1 = STi MDA, Sped CNT, UGR Caliper.

STRAP = 3146.59 m
Tally = 3147.00 m
Diff = .41 m

NOTES: ✓Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4987

MORNING TOUR 00:00 TO 08:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS		YES	NO
DRILLER		Ron Cadieux	8			RC
DERRICKMAN		Jerry Filey	8			JF
MOTORMAN		Kevin Vandenbrand	8			KV
FLOORMAN		Julien Sassie	8			JS
FLOORMAN		Gerald Gilbert	8			GG
LEASEMAN		Lawrence Loreen	8			LL
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	16:00	8	11

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Log hole with Computalog.
Run #1 = STi, MDA, Sped, CNT, UGR Caliper.
Bridged off at 2521m.
Log from 2460m - 735m

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					4987 kPa

DAY TOUR 08:00 TO 16:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS		YES	NO
DRILLER		Gary Patrick	8			GP
DERRICKMAN		Mike Watcich	8			MW
MOTORMAN		Wendell Bethen	8			WB
FLOORMAN		Larry Stawnichy	8			LS
FLOORMAN		Tim Byers	8			TB
LEASEMAN		Jason Mouye	8			JM
Lease		Jesse Lessard	8			JL
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	19:15	¾	11
19:15	20:00	¾	11
20:00	20:15	¼	7
20:15	21:15	1	22
21:15	24:00	2¾	6

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Log #1 STi, MDA, Sped, CNT, UGR, Caliper
LAY DOWN logging tools
R/S function Blind & Sand Sfty Flowr
Crown Saver Sub & Shaker Dies
R I H, Flow/S Fill Pipe @ 800m

NOTES: ✓Crown Saver, Fastline, Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

EVENING TOUR 16:00 TO 24:00 — INJURIES

CREW	SOC. INS. NO.	NAME	HRS		YES	NO
DRILLER		Allan Lickoch	8			AL
DERRICKMAN		Ned Melnyk	12	*		NM
MOTORMAN		Mike Guerin	8			MG
FLOORMAN		Wayne Chetan	8			WC
FLOORMAN		Adam Murray	8			AM
LEASEMAN		Moise Punch	12	*		MP
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118153

LICENCE NO.:	WELL NAME AND NO.:
1363	CDN Forest Etal Flett N-61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	AKita Drilling LTD.
SURFACE LOCATION:	**UNIQUE ID.:**
N61-6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	17

RIG NO.: 58

FUEL @ 8:00

RIG: 129 BOILER:

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	203.2	242.9	D-E	177	228.6	7 5/8 REG	19			
	178	174.8	D-E	158	178	5 1/2 IF	26	F-1000	Emsco	254
	127	74.4	H-W	94	165	4 1/2 IF	17			
		34.03	E	108	162		218	F-1000	Emsco	254
↓		38.10	E	89	162		138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.						3 3/4	4	1/4																	
DAY						1/4	6 3/4	1/4		3/4															
EVE.						3 3/4	4 3/4																		
TOTAL						7 3/4	15 3/4	1/2		3/4															

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN.	DAY	EVE.
NO. 3 TYPE Derrick		TMT 3320			
SCREENS CHANGED ☐ YES ☐ NO		AMT 116292			
8 TOP 210	TOP 210				
8 MIDDLE 175	MIDDLE 175				
24 BOTTOM 175	BOTTOM 175	ACC Oil 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	motor		8.27 m
1	monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
3	Shock Sub		3.82 m
1	228 DC		27.30 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
101	D.P.	STANDS	m
X	D.P.	SINGLES	2908.19 m
	KELLY DOWN		11.23 m
	TOTAL		3147 m
	WT. OF DC	35000 1000 daN	
	WT. OF STRING	122000 1000 daN	

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	32
TOTAL HOURS RUN	18 1/2

CUTTING STRUCTURE T_1	T_0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
							TD	1.73

HOLE CONDITION

HOLE DRAG	18000↑ 16000↓
TORQUE AT BOTTOM	OFF Bottom 9500 - 11000 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED	
TIME	05:30
DENSITY kg/m³	1795
FUNNEL VIS. - (S/L)	67
W.L. (cm³)	9.0
pH	10.2
Pvt m³	99.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Pot. Sulph	15 sxs
Drispak	1 sx
Hersite	2.1 m³
H2O	5.2 m³
BARITE	120 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2.5	1470	1728	2347
	HS		
2.5	1720	1940	1970

Recovered Sea mud

MORNING TOUR

METRES DRILLED

FROM	TO	DRO RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			20	
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16500	152	80	152	80

REDUCED PUMP SPEED

7100 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
10 STD Wipe Trip Vol.	1.46.39 / 1.97.51	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:30	1/2	5	Circulate wait on orders
00:30	01:30	1	6	√Flow P.O.H 10 STDS √Flow (2867m)
01:30	01:45	1/4	7	R/S Function Top pipe 8sec
01:45	02:15	1/2	6	R.I.H F/2867 - 3128m
03:15			5	Break Circ, wash to 3147m Circulate & condition mud (mix pill)
	05:30	3 1/4		
05:30	08:00	2 1/2	6	√Flow P.O.H 5 STDS √Flow, Pump Pill, P.O.H STDS
				Pump #2 Changed 1 SW. HEAD.

NOTES: √Crown Saver, Headline anchor, Fastline clamp
Held Environmental Meeting w/ Crew (Competency training)

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			155000	Emergency Response	5059

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	motor		8.27 m
1	monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
3	Shock Sub		3.82 m
1	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA: 249.04 m		
101	D.P.	STANDS	m
X	D.P.	SINGLES	2909.19 m
	KELLY DOWN		11.23 m
	TOTAL		3147.00 m
	WT. OF DC	35000 1000 daN	
	WT. OF STRING	122000 1000 daN	

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	32
TOTAL HOURS RUN	18 1/2

CUTTING STRUCTURE T_1	T_0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
							TD	1.7

HOLE CONDITION

HOLE DRAG	18000↑ 16000↓
TORQUE AT BOTTOM	9000 - 11000 NM
FILL ON BOTTOM (m)	0

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED	
TIME	Trip Record
DENSITY kg/m³	mws - 12.45
FUNNEL VIS. - (S/L)	cws - 11.09
W.L. (cm³)	DIFF - 1.36
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRO RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			20	
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17400	152	80	152	80

REDUCED PUMP SPEED

8200 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:45	2 3/4	6	P.O.H. Flow √@ 60 stds, 85 stds.
10:45	11:30	3/4	9	Slip & cut 20m of Drill line.
11:30	11:45	1/4	7	R/S Function Annular 18 Secs.
11:45				Flow √ R.I.H. Flow √ & Fill pipe @ 950m, 1850m
	15:45	4	6	2580m 3010m
15:45	16:00	1/4	5	Break Circulation, Wash To bottom. No F.U.

NOTES: √Crown Saver, Fastline Clamp Deadline Anchor
Greased Crown & Blocks.

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000 DAN		5059 KPA

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	motor		8.27 m
1	monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
3	Shock Sub		3.82 m
1	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA: 249.04 m		
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
	WT. OF DC	35000 1000 daN	
	WT. OF STRING	113000 1000 daN	

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3x15.9
DEPTH OUT (m)	3147
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	32
TOTAL HOURS RUN	18 1/2

CUTTING STRUCTURE T_1	T_0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
							TD	1.7

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	9000 - 11000
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED	
TIME	18:00
DENSITY kg/m³	1505
FUNNEL VIS. - (S/L)	76
W.L. (cm³)	10.5
pH	10.5
Pvt m³	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	120 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRO RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3147			15	
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
17000	152	80	152	80

REDUCED PUMP SPEED

7500 @ 80 @ 3147m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	19:15	3 1/4	5	Circulate & condition mud
19:15			6	√Flow, P.O.H 5 STDS √Flow Pump P.U., P.O.H 40 STDS
	24:00	4 3/4		3009m √Flow, P.O.H 70 STDS
				Pulling out to log
				Strap out

NOTES: √Crown saver, deadline anchor, fastline clamp

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			155000		4487

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118153

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N-61	99	08	17
OPERATOR: Canadian Forest Oil	CONTRACTOR: AKita Drilling LTD		
RIG MANAGER: Dave Lauck	RIG NO.: 58		
PROVINCE: N.W.T.	CAMP ☑ YES ☐ NO	RIG SAFETY DAYS: 1114	

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Jerry Foley	8		JF
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Gerald Gilbert	8		GG
LEASEMAN		Lawrence Loreen	8		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Mike Watrich	12		MW
MOTORMAN		Wendell Bethel	12		WB
FLOORMAN		Larry Stownichy	12		LS
FLOORMAN		Tim Byers	12		TB
LEASEMAN		Jason Monye	12		JM
Lease		Jesse Lessard	12		JL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Jerry Foley	4		JF
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Gerald Gilbert	4		GG
LEASEMAN		Lawrence Loreen	4		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118152

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

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

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	16

RIG NO.: 58

FUEL @ 8:00

RIG: 170 | BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
235	219.3	DX	79	320.6	7⅝ REG	19			
178	174.8	D,E	73	228.6	5½ REG	36	F-1000	Emsco	254
127	94.44	E	79	165	4½ IF	17	F-1000	Emsco	254
↓	88.10	E	84	162	4½ IF	138			

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118152

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR: 99 | MONTH: 08 | DAY: 16

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO.: 58

PROVINCE: NWT | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 113

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.		3¾			4					¼																
	DAY		5¾			13¼		¼			¼																
	EVE.		4¼			3		½			¼																
	TOTAL		13¾			3¾		¼	½		¾																

TOTALS

INJ.	TYPE	SHALE SHAKER(S)	RENTALS/SERVICES	MORN.	DAY	EVE.
2	Derrick		TMT 5966			
8	SCREENS CHANGED ☐ YES ☑ NO		AMT 110278			
8	TOP 210	TOP 210				
8	MIDDLE 175	MIDDLE 175				
24	BOTTOM 175	BOTTOM 175	Acc. Oil 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	Bit		0.37 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	249.04 m
100	D.P.	STANDS	m
XX	D.P.	SINGLES	2889.06 m
Stick up	KELLY DOWN		6.40 m
	TOTAL		3131.70 m
WT. OF DC			35000 1000 daN
WT. OF STRING			131000 1000 daN

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	16
TOTAL HOURS RUN	8½

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 18000↑ 16000↓

TORQUE AT BOTTOM: 8000 - 13000 NM

FILL ON BOTTOM (m): —

MUD RECORD

MUD TYPE	☐ WATER BASED	☐ OIL BASED
TIME	03:00	06:00
DENSITY kg/m³	1495	1495
FUNNEL VIS. - (S/L)	61	58
W.L. (cm³)	9.4	10.5
pH	10.2	10.5
PVT m³	100.5	101.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	3 SXS
Lignite	6 SXS
Desco	2 SXS
Premix	2.13 m³
H2O	5.7 m³
Perfoil 728	1 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

HOURS RUN	INTAKE DENSITY	OVERFLOW DENSITY	UNDERFLOW DENSITY
2¼	1495	1220	2400
2½	1470	1140	1720

METRES DRILLED

FROM	TO	DRLG TIME/CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3124	3131	7	35↑	25
	Slide	DTR	70	30/40

CIRCULATION PRESSURE (kPa): 16300

PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
152	80	152	80

REDUCED PUMP SPEED: 7000 @ — @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3113.5	1.4	40.9

DRILLER SIGNATURE: [signature]

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
00:00	00:45	¾	2	Drill F/3124.5 - 3126m ∠Slide
00:45	02:30	1¾	5	Circulate up sample & analyze
02:30	04:45	2¼	2	Drill F/3126 - 3130m ∠Rotate
04:45	07:00	2¼	5	Circulate up sample & analyze
07:00	07:15	¼	10	Survey @ 3113.5m
07:15	08:00	¾	2	Drill F/3130m - 3131.7m ∠Slide

NOTES: √Crown Saver, deadline anchor, fastline clamp. Held Watchdog Meeting w/crew.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000	Motors	5059

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		☑
DERRICKMAN		Jerry Foley	8		☑
MOTORMAN		Kevin Vandenbrand	8		☑
FLOORMAN		Julien Sassie	8		☑
FLOORMAN		Gerald Gilbert	8		☑
LEASEMAN		Lawrence Loreen	8		☑
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	Bit		.30 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	249.04 m
101	D.P.	STANDS	m
X	D.P.	SINGLES	2909.19 m
Stick up	KELLY DOWN		17.73 m
	TOTAL		3140.50 m
WT. OF DC			35000 1000 daN
WT. OF STRING			122000 1000 daN

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	25
TOTAL HOURS RUN	14¼

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 18000↑ 16000↓

TORQUE AT BOTTOM: 8000 - 13000 NM

FILL ON BOTTOM (m): Transfer 7m³ to Wader 6

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	09:00	12:00	15:00
DENSITY kg/m³	1490	1490	1490
FUNNEL VIS. - (S/L)	64	63	63
W.L. (cm³)	10.5	11.0	10.5
pH	10.0	10.5	10.5
PVT m³	104.7	96.0	96.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

HOURS RUN	INTAKE DENSITY	OVERFLOW DENSITY	UNDERFLOW DENSITY
2¼	1470	1140	1720

METRES DRILLED

FROM	TO	DRLG TIME/CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3131	3140	9	35↑ MTR	25
	Sliding	MTR	70	35/40

CIRCULATION PRESSURE (kPa): 16400

PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
152	80	152	80

REDUCED PUMP SPEED: 6900 @ 80 @ 3137m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3123.1	1.1	28.6

DRILLER SIGNATURE: [signature]

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08:00	11:00	3	2	Drill F/3131.7m - 3136m ∠Slide
11:00	12:45	1¾	5	Circulate up Sample.
12:45	14:00	1¼	2	Drill F/3136m - 3137.6m ∠Rotate
14:00	14:15	¼	10	Survey @ 3123.1m
14:15	14:30	¼	7	RIS, Function Lower pipe Rams 6 sec, √RSPP
14:30	16:00	1½	2	Drill F/3137.6m - 3140.5m ∠Slide

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor. Held Watchdog meeting.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			145000 DAN	Motor Maintenance	5059 K/A

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	12		☑
DERRICKMAN		Mike Watrich	12		☑
MOTORMAN		Wendell Bethel	12		☑
FLOORMAN		Larry Stewart	12		☑
FLOORMAN		Tim Byers	12		☑
LEASEMAN		Jason Mouye	12		☑
Lease		Jesse Lessard	12		☑
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	Bit		.30 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	249.04 m
101	D.P.	STANDS	m
X	D.P.	SINGLES	2909.19 m
Stick up	KELLY DOWN		14.23 m
	TOTAL		3147 m
WT. OF DC			35000 1000 daN
WT. OF STRING			132000 1000 daN

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	32
TOTAL HOURS RUN	18½

CUTTING STRUCTURE: T_1 | T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 18000↑ 16000↓

TORQUE AT BOTTOM: 9000 - 13000 NM

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE	☐ WATER BASED	☐ OIL BASED	
TIME	18:00	20:00	23:30
DENSITY kg/m³	1490	1490	1495
FUNNEL VIS. - (S/L)	63	61	60
W.L. (cm³)	10.8	11.0	11.0
pH	10.5	10.5	10.4
PVT m³	96.4	96.5	96.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	2 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

METRES DRILLED

FROM	TO	DRLG TIME/CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3140	3147	7	35	25
		MTR	70	30/40

CIRCULATION PRESSURE (kPa): 16500

PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
152	80	152	80

REDUCED PUMP SPEED: @ — @ —

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3130	1.0	358.5

DRILLER SIGNATURE: [signature]

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
16:00	16:30	½	2	Drill F/3140.5m - 3141m ∠Slide.
16:30	17:15	¾	5	Circulate up Sample
17:15	17:45	½	8	Work on Pump #2
17:45	20:00	2¼	2	Drill F/3141m - 3143.8m ∠Slide
20:00	21:30	1½	2	Drill F/3143.8 - 3147m ∠Rotate
21:30	23:30	2	5	Circulate up sample
23:30	23:45	¼	10	Survey @ 3130m
23:45	24:00	¼	5	Circulate & check sample

Pump #2 - Changed 3 S.W. Valves, 1 R.A. Valve, 2 S.W. Seats

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			155000		5059

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		☑
DERRICKMAN		Jerry Foley	4		☑
MOTORMAN		Kevin Vandenbrand	4		☑
FLOORMAN		Julien Sassie	4		☑
FLOORMAN		Gerald Gilbert	4		☑
LEASEMAN		Lawrence Loreen	4		☑
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118151

LICENCE NO.:	WELL NAME AND NO.:
1863	CDN Forest Etal Flett N-61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	AKita Drilling LTD.
SURFACE LOCATION:	**UNIQUE ID.:**
N61-6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 08 | DAY 15
RIG NO. 58
FUEL @ 8:00
RIG 82 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	228	249.1	D.C.	74	235	5 1/2 FH	14			
	178	178.8	D.C.	58	178	5 1/2 IF	36	F-1000	Emsco	254
	127	74.4	H.W.	79	165	4 1/2 IF	17	F-1000	Emsco	356
↓		39.03	E	106	163		218			
		38.42	E	89	163		138			

REVISED MARCH 1996

118151

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N-61	99	08	15
OPERATOR: Canadian Forest Oil	CONTRACTOR: AKita Drilling LTD.		
RIG MANAGER: Dave Lauck		RIG NO. 58	
PROVINCE: N.W.T	CAMP ☑ YES ☐ NO	RIG SAFETY DAYS: 1113	

TIME-HRS

CODE NO.	OPER.	FRI UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	Handle Tools
	MORN.		1/4			2	5 1/2	1/4													1/4		1 1/2
	DAY						6	1/4															
	EVE.		3/4			1	1		1		1/4												
	TOTAL		1			3	12 1/2	1 3/4			1/4										1/4		1 1/2

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE				
8	Derrick	TMJ 4872			
SCREENS CHANGED ☐ YES ☑ NO		AMT 109184			
8 TOP 210	TOP 210				
8 MIDDLE 175	MIDDLE 175				
8 BOTTOM 175	BOTTOM 175				
24		ACC. Oil 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Reed HP6A		0.37 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Stock sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	249.04 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
Sticky	KELLY DOWN		m
	TOTAL		3115.5 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	121000	1000 daN	

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	6 1 7
MFG.	Reed
TYPE	HP6A
SERIAL NO.	MM9764
JETS (mm)	3 x 15.9
DEPTH OUT (m)	3115
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	65
TOTAL HOURS RUN	57 3/4

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
8	8	BT	A	F	I	WT	TD	1.13

HOLE CONDITION

HOLE DRAG	180001 160001
TORQUE AT BOTTOM	9000 - 17000 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☑ WATER BASED ☐ OIL BASED
TIME	01:00
DENSITY kg/m³	1490
FUNNEL VIS. - (S/L)	61
W.L. (cm³)	9.2
pH	10.5
PV·T m³	100.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	103 sxs

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLG PMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3115	3115.5	MTR	70	25 3/4

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16300	152	80	152	80

REDUCED PUMP SPEED

7100 @ @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	1/4	2	Drill F/3115.4-3115.5m <Slide
00:15	02:15	2	5	Circulate Bottoms up
02:15			6	√Flow P.O.H 5 STDS √Flow, Pump pill P.O.H √Flow
	05:00	2 3/4		@ 1952m (40 STDS).
05:00	05:15	1/4	7	Rig Service function Tappipe 8sec
05:15	08:00	2 3/4	6	P.O.H Flow √@ 80 stds. 10 min.

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			150000		5059

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Jerry Foley	8		JF
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Gerald Gilbert	8		GG
LEASEMAN		Lawrence Loreen	8		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		8.30 m
1	monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA:	249.04 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
Stick up	KELLY DOWN		m
	TOTAL		m
WT. OF DC	35000	1000 daN	
WT. OF STRING		1000 daN	

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3 x 15.9
DEPTH OUT (m)	
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☒ WATER BASED ☐ OIL BASED
TIME	Trip Record
DENSITY kg/m³	meas = 21.13
FUNNEL VIS. - (S/L)	Cal = 18.77
W.L. (cm³)	DIFF = 2.36
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLG PMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3115				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:30	1 1/2	6	P.O.O.H, Flow √@ H.W. out of Hole 10 min each
09:30				Change Bits, Function Blind Rams 6sec
	11:00	1 1/2	23	Service MWD
11:00	13:30	2 1/2	6	R.I.H. Flow √@ H.W, 780m 10 min each
13:30	13:45	1/4	20	Test MWD Tools
13:45	14:45	1	6	R.I.H. To 1850m. Flow √ Fill Pipe.
14:45	15:00	1/4	7	RIS Function Annular 18sec ea
15:00	16:00	1	6	R.I.H. To 2560 Flow √ Fill Pipe.

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					5059 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Mike Watrich	12		MW
MOTORMAN		Wendell Bethel	12		WB
FLOORMAN		Larry Stawnichy	12		LS
FLOORMAN		Tim Byers	12		TB
LEASEMAN		Jason Mouye	12		JM
Lease		Jesse Lessard	12		JL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		8.30 m
1	monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA:	249.04 m
100	D.P.	STANDS	m
XX	D.P.	SINGLES	2489.06 m
Stick up	KELLY DOWN		13.60 m
	TOTAL		3124.5 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	121000	1000 daN	

BIT RECORD

BIT NO.	27
SIZE (mm)	311.2
IADC CODE	6 1 7 X
MFG.	Smith
TYPE	F4
SERIAL NO.	LK8869
JETS (mm)	3 x 15.9
DEPTH OUT (m)	
DEPTH IN (m)	3115
TOTAL METRES DRILLED (m)	9
TOTAL HOURS RUN	4 3/4

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG	140001 - 140001
TORQUE AT BOTTOM	8000 - 11000 NM
FILL ON BOTTOM (m)	0

MUD RECORD

MUD TYPE	☒ WATER BASED ☐ OIL BASED		
TIME	19:30	22:00	23:00
DENSITY kg/m³	1500	1495	1495
FUNNEL VIS. - (S/L)	62	62	60
W.L. (cm³)	10.0	9.5	9.5
pH	10.3	10.3	10.2
PV·T m³	101.5	101.2	101.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Biocide	1 pail
Lime	2 sxs

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLG PMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3115	3124	9	35	25
		MTR	70	24/10

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16600	152	80	152	80

REDUCED PUMP SPEED

7100 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3104	1.4	40.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:00	1	6	R.I.H., Fill pipe @ 2975m
17:00	18:00	1	5	Wash To Bottom, Clean up Bottom, NO Fill
18:00	19:30	1 1/2	2	Drill F/3115.5m-3119m <Rotate
19:30	19:45	1/4	10	Survey @ 3104m
19:45	22:45	3	2	Drill F/3119-3124m <Slide
22:45	23:45	1	8	Work on Pump #1
23:45	24:00	1/4	2	Drill F/3124-3124.5 <Slide
				Change 2 suc. valves #1 pump

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000		4487

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Jerry Foley	4		JF
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Gerald Gilbert	4		GG
LEASEMAN		Lawrence Loreen	4		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118150

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Mann Fagerson | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (Using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well Licensee & Slick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	14

RIG NO. 58

FUEL @ 8:00

RIG 125 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

REVISED MARCH 1996

118150

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR 99 | MONTH 08 | DAY 14

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 111

TIME-HRS

CODE NO.	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
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.						
MORN.		4			2¾		¼			1																
DAY		5½			2		¼			¼																
EVE.		7¾								¼										¼						
TOTAL		17			4¾		½			1¾										¼						

TOTALS

SHALE SHAKER(S)			RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE		TMT 1823			
8	Derrick		AMT 106135			
SCREENS CHANGED	☑ YES	☐ NO				
8	TOP 310	TOP 310				
8	MIDDLE 175	MIDDLE 175				
24	BOTTOM 175	BOTTOM 175	ACL Oil 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	PDC		.30 m
1	Monel		9.27 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock sub		3.82 m
3	228 D.C.		27.90 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
99	D.P.	STANDS	2850.92 m
X	D.P.	SINGLES	
Sticking	KELLY DOWN		7.06 m
	TOTAL		3092.90 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	118000	1000 daN	

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9364
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	42
TOTAL HOURS RUN	44½

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 18000↑ 14000↓

TORQUE AT BOTTOM 9500-13000NM

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	04:30	06:00
DENSITY kg/m³	1490	1490
FUNNEL VIS. - (S/L)	66	65
W.L. (cm³)	10.0	11.0
pH	10.0	10.0
P.V. T m³	109.6	109.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	2 SXS
Premix	2.2 m³
H2O	4.3 m³
Percol 726	2 SXS
Sul Acid	2 SXS

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILL THRU CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3087	3092	5	35	29/30
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16400	152	80	152	80

REDUCED PUMP SPEED: 7200 @ [ ] @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3075.4	0.8	30.1

DRILLER SIGNATURE

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
00:00	03:00	3	2	Drill 311.2mm hole F/3087-3090.4m ↙Rotate
03:00	03:45	¾	10	Survey @ 3075.4m (Attempt to survey)
03:45	04:00	¼	7	Rig Service, Function Ann 19sec
04:00	04:15	¼	2	Drill F/3090.4-3091.3m ↙Rotate
04:15	04:30	¼	10	Attempt Survey @ 3075.4m
04:30	04:45	¼	2	Drill F/3091.3-3092.0 ↙Rotate
04:45	07:30	2¾	5	Circulate up sample & analyze
07:30	08:00	½	2	Drill F/3092.0m-3092.9m ↙Rotate

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000		5059

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Terry Foley	8		TF
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Gerald Gilbert	8		GG
LEASEMAN		Lawrence Loreen	8		LL
Lease		Brian Kotchea	8		BK
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	PDC		.30 m
1	Monel		9.31 m
1	Trans subs		1.90 m
1	Float sub		.81 m
1	Shock sub		3.82 m
3	228 DC		27.90 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
100	D.P.	STANDS	2869.97 m
—	D.P.	SINGLES	— m
Sticking	KELLY DOWN		14.51 m
	TOTAL		3104.50 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	121000	1000 daN	

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9364
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	54
TOTAL HOURS RUN	50

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 18000↑ 16000↓

TORQUE AT BOTTOM 9000-13000 NM

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	08:30	12:00	15:00
DENSITY kg/m³	1490	1480	1480
FUNNEL VIS. - (S/L)	64	65	64
W.L. (cm³)	11.0	11.3	11.0
pH	10.0	10.0	10.0
P.V. T m³	110.1	110.4	96.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	2 SX
Potsulfate	26 SX
Lignite	6 SX
Desco	2 SX
Drispac	1 SX
Barite	170 SX
BioCide	1 Pail

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILL THRU CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3092	3104	12	35	29/31
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16200	152	80	152	80

REDUCED PUMP SPEED: 7150 @ 80 @ 3099.5m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3085.0	0.9	47.5

DRILLER SIGNATURE

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08:00	11:45	3¾	2	Drill F/3092.9m-3099.5m ↙Rotate
11:45	13:45	2	5	Circulate up Bottom hole sample.
13:45	14:00	¼	7	RIS, Function bottom pipe Rams 6sec √RSPP
14:00	14:15	¼	10	Survey @ 3085.0
14:15	16:00	1¾	2	Drill F/3099.5m-3104.5m ↙Rotate

NOTES: √Crown Saver, Fastline Clamp Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000 DAN		5131 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Mike Watrich	12		MW
MOTORMAN		Wendell Bethel	12		WB
FLOORMAN		Larry Stawnichy	12		LS
FLOORMAN		Tim Byers	12		TB
LEASEMAN		Jason Mouye	12		JM
Lease		Jesse Lessard	12		JL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	PDC		.30 m
1	Monel		9.31 m
1	Trans subs		1.90 m
1	Float sub		.81 m
1	Shock sub		3.82 m
3	228 D.C.		27.90 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
100	D.P.	STANDS	3117.61 m
	D.P.	SINGLES	3469.97 m
St. Kup	KELLY DOWN		3.61 m
	TOTAL		3115.40 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	131000	1000 daN	

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9364
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	65
TOTAL HOURS RUN	57½

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 18000↑ 16000↓

TORQUE AT BOTTOM 11000-16000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	20:00	23:00
DENSITY kg/m³	1490	1490	1490
FUNNEL VIS. - (S/L)	64	61	62
W.L. (cm³)	10.5	10.5	9.0
pH	10.0	10.0	10.2
P.V. T m³	99.2	99.2	99

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Starpak	1 SX
Drispak	1 SX
Gel	4 SXS
Lignite	6 SXS
Desco	2 SXS
Lime	2 SXS

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILL THRU CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3104	3115	11	35	29/30
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16400	152	80	152	80

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3094.5	1.1	37.1

DRILLER SIGNATURE

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
16:00	18:45	2¾	2	Drill F/3104.5m-3109.5m ↙Rotate
18:45	19:00	¼	10	Survey @ 3094.5m
19:00	22:00	3	2	Drill F/3109.5m-3112.2m ↙Slide
22:00	23:00	1	2	Drill F/3112.2-3114.6m ↙Rotate
23:00	23:15	¼	20	Orient tool face
23:15	24:00	¾	2	Drill F/3114.6-3115.40m ↙Slide

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			145000		5059

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Terry Foley	4		TF
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Gerald Gilbert	4		GG
LEASEMAN		Lawrence Loreen	4		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118149

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Marvin Pogue | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	13

RIG NO.: 58

FUEL @ 8:00

RIG: 156 | BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	106.7	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL J.T.O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228	295.0	G105	76	254.0	6⅝ FH	14			
178	174.8	G105	58	178	5" HWDP	35	F-1000	Emsco	254
137	74.9	H40	74	165	4½ IF	270	F-1000	Emsco	254
↓	34.00	E75	109	162	4½ IF	138			
	36.10	E75	109	162					

REVISED MARCH 1996

118149

BOARD COPY

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR: 99 | MONTH: 08 | DAY: 13

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO.: 58

PROVINCE: N.W.T | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1110

TIME-HRS

CODE NO.	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
OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.					
MORN.		7					¼	½		¼																
DAY		4¾						3¾																		
EVE.		3						5																		
TOTAL		14¾					¼	8¾		¼																

TOTALS

RIG	TYPE
3	Derrick
8	
8	
8	
24	

SCREENS CHANGED ☐ YES ☐ NO

	TOP #1	TOP #2	MIDDLE	MIDDLE	BOTTOM	BOTTOM
SCREENS	310	310	175	175 *	175	175

SHALE SHAKER(S)

	MORN.	DAY	EVE.
TMT	1200		
AMT	105512		
ACC. Oil	40		

RENTALS/SERVICES

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		6.27 m
1	monel		9.31 m
1	Trans sub		1.40 m
1	Float sub		.81 m
1	Shock sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 DC		57.24 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
99	D.P.	STANDS	2841.39 m
X	D.P.	SINGLES	9.53 m
Stick up	KELLY DOWN		17.00 m
	TOTAL		3081.90 m
WT. OF DC	35000		1000 daN
WT. OF STRING	118000		1000 daN

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9264
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	31
TOTAL HOURS RUN	32¾

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 18000↑ 13000↓

TORQUE AT BOTTOM: 7500 - 9500 NM

FILL ON BOTTOM (m): —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	00:30	04:00	06:30
DENSITY kg/m³	1490	1485	1485
FUNNEL VIS. - (S/L)	66	65	63
W.L. (cm³)	9.5	9.5	9.5
pH	10.0	10.0	10.0
PVT m³	103.3	103.6	103.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	1 SX
Lignite	6 SKS
Soda Ash	4 SKS
Alcomer	1 SX
H₂O	5.7 m³
Percoltex	1 SX
Sul-Ark	1 SX
Transfer	5 m³ to Wadeco

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3077	3081	4	35 mtr 70	30

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16500	152	80	152	80

REDUCED PUMP SPEED

7100 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3065.8	0.8	25.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:45	1¾	2	Drill 311.2mm hole F/3077-3078.2m ∠Rotate
01:45	02:15	½	8	Work on #1 pump
02:15	05:45	3½	2	Drill F/3078.2m - 3080.2m ∠Rotate
05:45	06:00	¼	7	R/S Function Test pipe 8sec.
06:00	06:30	½	2	Drill F/3080.2 - 3080.8m ∠Rotate
06:30	06:45	¼	10	Survey @ 3065.8m
06:45	08:00	1¼	2	Drill F/3080.8m - 3081.9m
				Change 1 SW head & 1 sur. valve #1 Pump
				Function Remote Choke 19sec

NOTES: √Crown Saver, deadline anchor, fastline clamp
Held Competency Training meeting w/crew

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0				Emergency Response	5059

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		☒
DERRICKMAN		Jerry Foley	8		☒
MOTORMAN		Kevin Vandenbrand	8		☒
FLOORMAN		Julien Sassie	8		☒
FLOORMAN		Gerald Gilbert	8		☒
LEASEMAN		Lawrence Loreen	8		☒
Lease		Brian Ketchea	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		9.27 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.24 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
	BHA:		249.04 m
99	D.P.	STANDS	2850.92 m
X	D.P.	SINGLES	
Stickup	KELLY DOWN		14.90 m
	TOTAL		3085.00 m
WT. OF DC	35000		1000 daN
WT. OF STRING	118000		1000 daN

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9264
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	35
TOTAL HOURS RUN	37½

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 18000↑ 13000↓

TORQUE AT BOTTOM: 8000 - 10000

FILL ON BOTTOM (m): —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1480	1490	
FUNNEL VIS. - (S/L)	61	66	
W.L. (cm³)	10.0	10.5	
pH	10.0	10.0	
PVT m³	106.6	97.8	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	170 SKS
Premix	1.44 m³
Polysalute	30 SKS
Lime	2 SX
Caustox	1 Pail
BioCide	2 Pails
TRANSFER	10m³ TO Wadeco

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3081	3085	4	55 + MTR 70	30

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16600	152	80	152	80

REDUCED PUMP SPEED

7200 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	12:45	4¾	2	Drill F/3081.9m - 3085m ∠Rotate
12:45	16:00	3¼	8	Circulate and wait on electrition.
				Wait on electrician due to wiring damage caused by engine fire on #3 generator

NOTES: √Crown Saver, Fastline Clamp Deadline Anchor.
Held Camp Fire Drill, Held Competency Trainng meeting.

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			145000 DAN	Emergency Response	5131 APA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	12		☒
DERRICKMAN		Mike Watrich	12		☒
MOTORMAN		Wendell Bethel	12		☒
FLOORMAN		Larry Stawnichy	12		☒
FLOORMAN		Tim Byers	12		☒
LEASEMAN		Jason Mouye	12		☒
Lease		Jesse Lessard	12		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		6.27 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.82 m
3	228 DC		27.30 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.24 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
99	D.P.	STANDS	2850.92 m
X	D.P.	SINGLES	
St. Kup	KELLY DOWN		13.96 m
	TOTAL		3087 m
WT. OF DC	35000		1000 daN
WT. OF STRING	118000		1000 daN

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9264
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	37
TOTAL HOURS RUN	40½

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 18000↑ 13000↓

TORQUE AT BOTTOM: 9000 - 11500 NM

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	21:30	23:30	
DENSITY kg/m³	1495	1485	
FUNNEL VIS. - (S/L)	61	62	
W.L. (cm³)	9.5	10.5	
pH	10.0	10.0	
PVT m³	100.8	101.6	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3085	3087	2	35 MTR 70	30

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16900	152	80	152	80

REDUCED PUMP SPEED

6900 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00			8	Circulate & wait on Electrition (est 3HR)
	21:00	5		Motor on Line
21:00	24:00	3	2	Drill F/3085 - 3087m ∠Rotate

NOTES: √Crown Saver, deadline anchor, fastline clamp
Check SCBA

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000		5259

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		☒
DERRICKMAN		Jerry Foley	4		☒
MOTORMAN		Kevin Vandenbrand	4		☒
FLOORMAN		Julien Sassie	4		☒
FLOORMAN		Gerald Gilbert	4		☒
LEASEMAN		Lawrence Loreen	4		☒
Lease		Brian Ketchea	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118148

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-17330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 08 | DAY 12 | RIG NO. 58

FUEL @ 8:00 RIG 76 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	178	134.8	D.C	54	178	5 1/2 H90	25	F-1000	Emsco	254
	127	74.4	H.W	59	165	4 1/2 IF	10	F-1000	Emsco	254
		34.02	E2	126	163		326			
↓		38.10	E3	129	162		138			

REVISED MARCH 1996

118148

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR 99 | MONTH 08 | DAY 12

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1109

TIME-HRS

CODE NO.	OPER.	1 TRIP/TP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.		7 1/2					1/4			1/4											TOP Drive				
	DAY		17 1/4								1/4															
	EVE.		7 1/4					1/4	1/4																	
	TOTAL		32 1/2					1/2	1/4		1/2											1/4				
																						1/4				

TOUR

SHALE SHAKER(S) NO.	TYPE	RENTALS/SERVICES	MORN.	DAY	EVE.
8	Derrick	TMT 1030			
SCREENS CHANGED ☐ YES ☑ NO		AMJ 105342			
8 TOP 310	TOP 350				
8 MIDDLE 175	MIDDLE 175				
24 BOTTOM 175	BOTTOM 175	Acc. Oil 40			

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1	MTR		6.37 m
1	monel		9.31 m
1	Trans sub		1.40 m
1	Float sub		.81 m
1	Shock sub		3.82 m
3	228 D.C.		27.20 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
98	D.P.	STANDS	m
XX	D.P.	SINGLES	2631.80 m
Stick up	KELLY DOWN		13.84 m
	TOTAL		3067.00 m
WT. OF DC		35000	1000 daN
WT. OF STRING		117000	1000 daN

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9364
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	17
TOTAL HOURS RUN	10 3/4

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 180001 140001

TORQUE AT BOTTOM 9000 - 10500 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED			
TIME	00:30	03:30	06:00
DENSITY kg/m³	1500	1490	1495
FUNNEL VIS. - (S/L)	69	69	66
W.L. (cm³)	10.5	9.5	9.5
pH	9.5	9.5	9.5
PVT m³	97.4	98.6	99.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
drispak	1 SX
Starpak	1 SX
Lignite	6 SXS
desco	4 SXS
Gel	4 SXS
Lime	2 SXS
Alcomer	1 SX
H2O	3.84 m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3055	3067	12	35/ MTR	25/ 70

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.

16000 | 152 | 80 | 152 | 80

REDUCED PUMP SPEED: @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3047	0.7	38.1

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	04:00	4	2	Drill 311.2mm hole F/3055 - 3061.4m
04:00	04:15	1/4	7	Rig Seivice function Ann 31sec
04:15	04:30	1/4	2	Drill F/3061.4 - 3062m
04:30	04:45	1/4	10	Survey @ 3047m
04:45	08:00	3 1/4	2	Drill F/3062 - 3067m & ROTATE

NOTES: √Crown Saver, deadline anchor, fastline clamp. Grease Crown & Blocks

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140 000		5059

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	8			RC
DERRICKMAN		Jerry Foley	8			JF
MOTORMAN		Kevin Vandenbrand	8			KV
FLOORMAN		Julien Sassie	8			
FLOORMAN		Gerald Gilbert	8			GG
LEASEMAN		Lawrence Loreen	8			LL
Lease		Brian Kotchea	8			BK
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1	MTR		6.37 m
1	monel		9.31 m
1	Trans sub		1.40 m
1	Float sub		.81 m
1	Shock sub		3.82 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
98	D.P.	STANDS	m
XX	D.P.	SINGLES	2831.80 m
Stick up	KELLY DOWN		7.84 m
	TOTAL		3073.00 m
WT. OF DC		35000	1000 daN
WT. OF STRING		117000	1000 daN

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9364
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	23
TOTAL HOURS RUN	18 1/2

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 20000↑ 16000↓

TORQUE AT BOTTOM 7500 - 8500 NM

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED			
TIME	09:00	12:00	15:00
DENSITY kg/m³	1490	1490	1490
FUNNEL VIS. - (S/L)	66	65	65
W.L. (cm³)	100	10.8	10.0
pH	10.0	10.0	10.5
PVT m³	99.8	102.2	102.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Premix	14m³
Lignite	2 SXS
Drispac	1 SX
lime	2 SX
PotSulfate	28 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3067	3073	6	35+ MTR=70	25/30

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.

16300 | 152 | 80 | 152 | 80

REDUCED PUMP SPEED: 6600 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3056.2	0.7	46.1

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08.00	12:15	4 1/4	2	Drill F/3067m - 3071m & Rotate
12:15	12:30	1/4	10	Survey @ 3056.2m
12:30	16:00	3 1/2	2	Drill F/3071m - 3073m & Rotate

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140 000 DAN		5059 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Gary Patrick	12			GP
DERRICKMAN		Mike Watrich	12			MW
MOTORMAN		Wendell Berthel	12			WB
FLOORMAN		Larry Stawnichy	12			LS
FLOORMAN		Tim Byers	12			TB
LEASEMAN		Jason Mouye	12			JM
Lease		Jessy Lessard	4			JL
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1	MTR		6.37 m
1	monel		9.31 m
1	Trans sub		1.40 m
1	Float sub		.81 m
1	Shock sub		3.82 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		249.04 m
98	D.P.	STANDS	m
XX	D.P.	SINGLES	2831.80 m
St. Kup	KELLY DOWN		3.84 m
	TOTAL		3077 m
WT. OF DC		35000	1000 daN
WT. OF STRING		117000	1000 daN

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	617
MFG.	Reed
TYPE	HP61A
SERIAL NO.	MM9364
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	3050
TOTAL METRES DRILLED (m)	27
TOTAL HOURS RUN	23 3/4

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 20000↑ 16000↓

TORQUE AT BOTTOM 7000 - 9000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED			
TIME	18:00	20:30	
DENSITY kg/m³	1490	1490	
FUNNEL VIS. - (S/L)	65	66	
W.L. (cm³)	10.0	9.9	
pH	10.0	10.0	
PVT m³	102.5	103.4	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	3 SXS
Pipelube	1 SXS

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-O R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3073	3077	4	35+ MTR=70	25/30

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.

16500 | 152 | 80 | 152 | 80

REDUCED PUMP SPEED: 7000 @ 73 @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16.00	16.45	3/4	2	Drill F/3073m - 3073.9m & Rotate
16:45	17:00	1/4	7	R/S Function Bottom Pipe Rams 6 sec @ 15 √RSPP
17:00	17:15	1/4	22	Service TOP Drive
17:15	17:30	1/4	8	Work on Pump #1
17:30	5600 6h		2	Drill F/3073.9m - 3077m & Rotate

Pump #1 Changed 150 Head

NOTES: √Crown Saver, deadline anchor, fastline clamp. Inspect Drawworks Brake linkage

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					5059

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	4			RC
DERRICKMAN		Jerry Foley	4			JF
MOTORMAN		Kevin Vandenbrand	4			KV
FLOORMAN		Julien Sassie	4			JS
FLOORMAN		Gerald Gilbert	4			GG
LEASEMAN		Lawrence Loreen	4			LL
Lease		Brian Kotchea	4			BK
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118147

REVISED MARCH 1996

118147

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61 40 40-123 30 | UNIQUE ID.: 300-N61-6140

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

DAILY CHECKS — OPR. initial / R.M. initial

(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Linet Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flexlines & Blowdown Lines
(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 08 | DAY 11

RIG NO. 58

FUEL @ 8:00

RIG | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.42	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	203.2	295.4	DC	71.5	279.4	7 5/8 REG	12			
	178	174.6	DC	57.2	178	6 5/8 REG	10	F-1000	Emsco	254
	127	74.4	HW	76	168	4½ IF	26	F-1000	Emsco	254
	127	74.96	DP	89	168	✓	138			

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.		3			1¾	3¾															Handle Tools	BOP Drill				
	DAY		4½				4½	¼		½											17½	1					
	EVE.		3¼			1	2¾	¼	½	¼	¼													1¼			
	TOTAL		7¾			2¾	10	½	½	¾	¼										17½	1		1¼			

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE				
2	Derrick FHC	TMJ 881			
SCREENS CHANGED	☐ YES ☑ NO	AmJ 105193			
8	TOP 210	TOP 250			
8	MIDDLE 75	MIDDLE 75			
24	BOTTOM 75	BOTTOM 75			
		Accum Oil 40			

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 08 | DAY 11

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Bob Foth, Dave Janik | RIG NO. 58

PROVINCE: Northwest Territories | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1105

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	MILL TOOTH		0.30
1	MONEL		9.31
1	FLOAT SUB		1.90
1	MUDSAVER		2.81
3	328 DC		27.90
1	JAR		2.75
5	328 DC		46.31
1	X/O		1.37
6	178 DC		57.29
1	X/O		1.41
1	TBR		1.71
1	HWDP		91.94
1	TBR		1.65
	BHA		249.04
14	D.P.	STANDS	542.31
	D.P.	SINGLES	
	KELLY DOWN		11.96
	TOTAL		3050

WT. OF DC: 35000 (1000 daN)

WT. OF STRING: 117000 (1000 daN)

BIT RECORD

BIT NO.	26
SIZE (mm)	311.2
IADC CODE	537B
MFG.	SEC.
TYPE	GSSGF
SERIAL NO.	7266497
JETS (mm)	3x15.9
DEPTH OUT (m)	3050
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	82
TOTAL HOURS RUN	5¾

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
2	2	BT	A	E	3	WT	TD	114

HOLE CONDITION

HOLE DRAG: 10000 | 18000

TORQUE AT BOTTOM: 8000 - 15000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED		
TIME	02:00	07:00
DENSITY kg/m³	1485	1485
FUNNEL VIS. - (S/L)	93	70
W.L. (cm³)	10.2	10.0
pH	10.5	10.5
	9.5	9.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	175 sks
Gel	4 sks
Lig	4 sks
Deico	4 sks

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D REAM CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3047	3050	3	35	35/80
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
MORN	152	80	152	80
DAY				
EVE				

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
Trip Report		
Cal	18.70	
MT	23.30	
DSE	4.08	

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	03:00	3	2
03:00	04:45	1¾	5
04:45	08:00	3¼	6

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill 3047m - 3050m Rotate
Circulate at TD
Flow test trip. Flow, Pump till POH
POH ✓Flow @ 1910m
#2 Pump SW Dist. to scrat valves in right(#3) side. 2 new Pangent seals + left-M.H. Side

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			400 000 DAN		

MORNING TOUR 00:00 TO 08:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Lemon	8		✓
DERRICKMAN		Ned Helnik	8		✓
MOTORMAN		Mike Guerin	8		✓
FLOORMAN		Wayne Cheetham	8		✓
FLOORMAN		Adam Murray	8		✓
LEASEMAN		Mike Finch	8		✓
RIG WATCH		Joe Pond	8		✓

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

METRES DRILLED

FROM	TO	DR'D REAM CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3050				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	08:15	¼	7
08:15	11:15	3	6
11:15	12:30	1¼	20
12:30	13:30	1	22
13:30	15:00	1½	6
15:00	15:30	½	20
15:30	16:00	½	9

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Rig Service, Bot pipe 8 sec
POH ✓Flow @ 1328m @ H.W.Ton Bank
Function HCR 3sec, Blinds 7sec
Set MTR to 1.5 deg, change out MWD Tool
Make up Bit # 36 ✓Flow, change out Shock Tools
RIH to 749m ✓Flow, RIH F/249-791m
Conduct shallow Test on MWD & Gamma
Slip & cut 20m drill line
Laydown Shock Tool S/N 10789
Pick up Shock Tool S/N 10572

NOTES: ✓Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

DAY TOUR 08:00 TO 16:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Ron Cadieux	8		✓
DERRICKMAN		Jerry Foley	8		✓
MOTORMAN		Kevin Vandenhaund	8		✓
FLOORMAN		Julien Sassie	8		✓
FLOORMAN		Gerald Gilbert	8		✓
LEASEMAN		Lawrence Loreen	8		✓
Lease		Brian Ketchen	8		✓
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D REAM CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3050	3055	5	35	35/80
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16300	152	80	152	80
6500	@ 3052m		@	80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3037.4	0.6	40.4

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	16:15	¼	9
16:15	17:15	1	6
17:15	17:30	¼	5
17:30	18:15	¾	6
18:15	18:30	¼	5
18:30	18:45	¼	6
18:45	19:00	¼	22
19:00	19:15	¼	5
19:15	19:30	¼	6
19:30	19:45	¼	5
19:45	20:45	1	2
20:45	21:15	½	9

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Slip & cut 20m drill line. Flow ✓
RIH to 1770m Flow ✓
Fill Pipe Break Circulation.
RIH to 2485 Flow ✓
Fill PPe Break Circulation
RIH to 2915m Flow ✓
POOH to 2400 - Drill to 3055
Fill PPe Break Circulation
RIH to 3030m.
Break Circ Wash 30m To Btm, No Fill.
Break in BIT Drill F/3050m - 3051.5m
Work on Pump #1 21:15 - 22:00 : Drill to 3053m

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor.
16:00 - 22:15 : R/S Function upper Pipe Rams 22:15 - 22:30 = Survey @ 3037.4m

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					50359

EVENING TOUR 16:00 TO 24:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	8		✓
DERRICKMAN		Mike Watrich	8		✓
MOTORMAN		Wendell Bethel	8		✓
FLOORMAN		Larry Stawnichy	8		✓
FLOORMAN		Tim Byers	8		✓
LEASEMAN		Jason Mouye	8		✓
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118146

REVISED MARCH 1996

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-1233D | UNIQUE ID.: 300-N61-6040

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

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flareless & Degasser Lines
(1) Rig Site Health and Safety Meeting (once/week/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 94 | MONTH 03 | DAY 10
RIG NO. 58
FUEL @ 8:00
RIG 96 | BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	106.2	BTEC	K55	58	735.55	6.62	735.12

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228.6	203.7	DC	76	279	6⅝ REG	6	F-1600	Emsco	254
177.8	178.5	DC	71	228	5½ FH	25			
127	74.4	HW	51	165	4½ IF	6	F-1100	Emsco	254
127	49.9	E2	108	149	4½ XH	6			
127	39.10	E2	91	146	V-150	138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			6½					¼	¾		¼														
DAY			6¼						1½		¼														
EVE.			7¼					¼	¼																
TOTAL			20					¾	2		¾														

TOTALS

SHALE SHAKER(S)

NO.	TYPE
2	Derrick FLC

SCREENS CHANGED ☐ YES ☑ NO

	TOP		TOP
TOP	210		250
MIDDLE	175	MIDDLE	175
BOTTOM	175	BOTTOM	175

RENTALS/SERVICES (MORN. / DAY / EVE.)
TMJ 108259
AMJ 5231
Accum 01-40

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			30 m
1	MONEL		9.27 m
1	HEART SUB		1.25 m
1	FLOAT SUB		.81 m
1	SHOCK SUB		3.65 m
3	228 DC		27.20 m
1	JARS		9.76 m
5	228 DC		46.81 m
1	XO		1.41 m
6	178 DC		57.39 m
1	XO		1.41 m
1	TBR		1.65 m
9	HWDP		81.94 m
1	TBR		1165 m
		BHA	249.07 m
97	D.P.	STANDS	2410.7 m
X	D.P.	SINGLES	2713.85 m
STICK UP	KELLY DOWN		12.92 m
	TOTAL		3030 m
WT. OF DC			35000 1000 daN
WT. OF STRING			117000 1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec.
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2965
TOTAL METRES DRILLED (m)	62
TOTAL HOURS RUN	42

CUTTING STRUCTURE: T_1 T_2 MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 18000↑
TORQUE AT BOTTOM 10000 - 12500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	02:00	06:00	08:00
DENSITY kg/m³	1475	1470	1470
FUNNEL VIS. - (S/L)	71	70	70
W.L. (cm³)	12.0	11.8	12.0
pH	10.5	10.5	10.0
PVT m³	94.2	89.2	91.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispak	1 SK
Lignite	1 SK

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED / REAMED / CORED (m)	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3022	3030	8	35 / MTR 70	25/27

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15700	152	80	152	80

REDUCED PUMP SPEED: 7300 @ [ ] @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3008.7	0.6	23.3

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:45	¾	2	DRILL 3022m - 3023m < ROTATE
00:45	01:00	¼	7	RR FUNCTION ANNULAR PSEC VRSPP
01:00	01:30	½	2	DRILL 3023m - 3023.7m < ROTATE
01:30	01:45	¼	10	SURVEY @ 3008.7
01:45	02:15	½	8	WORK ON PUMP #1
02:15	06:00	3¾	2	DRILL 3023.7m - 3028m < ROTATE
06:00	06:15	¼	8	WORK ON PUMP #2
06:15	08:00	1¾	2	DRILL 3028m - 3030m < ROTATE

NOTES: #1 Pump - Replaced DISCHARGE SEAT & VALVE
✓CROWN SAVER, FASTLINE CLAMP, DEADLINE ANCHOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
6			140000 DAN		5403 KN

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		ALLAN LICKOCH	8		✓
DERRICKMAN		NED MELNYK	8		✓
MOTORMAN		MIKE GUERIN	8		✓
FLOORMAN		WAYNE CHRETIEN	8		✓
FLOORMAN		ADAM MURRAY	8		✓
LEASEMAN		MOISE PUNCH	8		✓
LEASE		JOE RODH	8		✓
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			30 m
1	MONEL		9.27 m
1	Float sub		1.90 m
1	Float sub		.81 m
1	Shock Sub		3.65 m
3	228 DC		27.20 m
1	Jars		9.76 m
5	228 DC		46.81 m
1	XO		1.41 m
6	178 DC		57.39 m
1	XO		1.41 m
1	TBR		1.65 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	244.07 m
97	D.P.	STANDS	2793.85 m
X	D.P.	SINGLES	2793.85 m
	KELLY DOWN		2.92 m
	TOTAL		3040 m
WT. OF DC			35000 1000 daN
WT. OF STRING			117000 1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	72
TOTAL HOURS RUN	48¼

CUTTING STRUCTURE: T_1 T_2 MDC LOC B Gage ODC Reason Pulled Total Run m/hr. — 15

HOLE CONDITION

HOLE DRAG 20000↑ 14000↓
TORQUE AT BOTTOM 10000 - 12500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	08:30	13:00	15:00
DENSITY kg/m³	1475	1490	1490
FUNNEL VIS. - (S/L)	68	70	70
W.L. (cm³)	10.7	10.0	10.0
pH	10.0	10.3	10.2
PVT m³	91.0	93.2	94.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispak	1 SK
Starpak	1 SK
Lignite	4 SKS
BARITE	90 SKS
LIME	1 SK
Tesco	4 SKS
Gel	4 SKS
Biocide	1 PAIL

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

H2O 5.7m³

METRES DRILLED

FROM	TO	DRILLED / REAMED / CORED (m)	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3030	3040	10	35 / MTR 70	25/27

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15800	152	80	152	80

REDUCED PUMP SPEED: 7200 @ [ ] @ 50

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3018.3	0.5	32.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
06:00	09:30	1½	2	Drill F/3030 - 3033.3m < Rotate
09:30	09:45	¼	10	Survey @ 3018.3m
09:45	11:45	2	2	Drill F/3033.3 - 3036.5m < Rotate
11:45	13:00	1¼	8	Work on #1 Pump
13:00	13:15	¼	2	Drill F/3036.5 - 3036.8 < Rotate
13:15	13:30	¼	8	Work on #2 Pump
13:30	16:00	2½	2	Drill F/3036.8 - 3040m < Rotate

Pump #1 - 1 LWER + Mission head + 1 discharge valve + Seat. #2 Pump - 1 S.W. head

NOTES: ✓Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000		5131

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	12		✓
DERRICKMAN		Jerry Foley	12		✓
MOTORMAN		Kevin Vandenbrand	12		✓
FLOORMAN		Julien Sassie	12		✓
FLOORMAN		Gerald Gilbert	12		✓
LEASEMAN		Lawrence Loreen	12		✓
Lease		Brian Kotchea	12		✓
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			30 m
1	MONEL		9.27 m
1	Float sub		1.90 m
1	Float sub		.81 m
1	Shock Sub		3.65 m
3	228 DC		27.20 m
1	Jars		9.76 m
5	228 DC		46.81 m
1	XO		1.41 m
6	178 DC		57.39 m
1	XO		1.41 m
1	TBR		1.65 m
9	HWDP		81.94 m
1	TBR		1.65 m
		BHA	249.07 m
98	D.P.	STANDS	2819.91 m
	D.P.	SINGLES	m
STICK UP	KELLY DOWN		14.98 m
	TOTAL		3047 m
WT. OF DC			35000 1000 daN
WT. OF STRING			117000 1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	79
TOTAL HOURS RUN	55¼

CUTTING STRUCTURE: T_1 T_2 MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

HOLE CONDITION

HOLE DRAG 19000↑ 13000↓
TORQUE AT BOTTOM 10000 - 14000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1490	1480	1485
FUNNEL VIS. - (S/L)	62	66	69
W.L. (cm³)	10.2	10.0	10.2
pH	10.3	10.5	10.5
PVT m³	94.0	94.2	94.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Premix	2.5 m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED / REAMED / CORED (m)	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3040	3047	7	35 / MTR 70	25/28

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
16000	152	80	152	80

REDUCED PUMP SPEED: 7400 @ [ ] @ [ ]

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
3037.9	0.6	35.5

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:30	1½	2	Drill F/3040 - 3042.3m < Rotate
17:30	17:45	¼	7	RS Top pipe 8sec
17:45	18:15	½	2	Drill F/3042.3 - 3042.9m < Rotate
18:15	18:30	¼	10	Survey @ 3027.9m
18:30	19:00	½	2	Drill F/3042.9 - 3043.6 < Rotate
19:00	19:15	¼	8	Work on #2 Pump
19:15	24:00	4¾	2	Drill 3043.6m - 3047m < Rotate

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000 DAN		5405 KN

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		ALLAN LICKOCH	4		✓
DERRICKMAN		NED MELNYK	4		✓
MOTORMAN		MIKE GUERIN	4		✓
FLOORMAN		WAYNE CHRETIEN	4		✓
FLOORMAN		ADAM MURRAY	4		✓
LEASEMAN		MOISE PUNCH	4		✓
LEASE		JOE RODH	4		✓
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

FOLD HERE →

118145

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Fleth N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: NEL-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D.M.P. | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Deadman Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	09

RIG NO. 58

FUEL @ 8:00

RIG 1.48 | BOILER

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228	221.0	XH	76	228	4FH	3			
178	179.5	DC	71	229	4FH	25	F-1000	Emsco	254
127	79.4	HW	76	165	4½IF	16			
127	89.47	E	108	165	V	306	F-1000	Emsco	254
127	79.46	E	89	165	V	139			

REVISED MARCH 1996

118145

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest et al Fleth N-61	99	08	09

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Bonlouth. | RIG NO.: 58

PROVINCE: N.W.T. | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1106

TIME-HRS

CODE NO.	OPER.	RIG UP & DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	22	23	24	25	26
	MORN.		7¼					¼			½												Top Valves				
	DAY		7					¼			¼												½				
	EVE.		6¾						1¼																		
	TOTAL		21					½	1¼		¾												½				

TOTALS

SHALE SHAKER(S) NO.	TYPE
2	Derrick FLC

SCREENS CHANGED	☐ YES ☑ NO
TOP	210
MIDDLE	175
BOTTOM	175

RENTALS/SERVICES	MORN	DAY	EVE
TMT 102035			
AMJ 5007			
Accum OH = 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1		230	0.30 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock Sub		3.85 m
3	228 D.C.		27.39 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.44 m
1	TBR		1.65 m
	BHA		249.07 m
96	D.P.	STANDS	m
XX	D.P.	SINGLES	2774.61 m
	KELLY DOWN		17.68 m
	TOTAL		3006 m
WT. OF DC			35 000 1000 daN
WT. OF STRING			117 000 1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec.
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	38
TOTAL HOURS RUN	21½

CUTTING STRUCTURE: T_1 T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	18000↑ 14000↓
TORQUE AT BOTTOM	10000 - 11500 NM
FILL ON BOTTOM (m)	2.5m3

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1470	1465	1470
FUNNEL VIS. - (S/L)	69	70	72
W.L. (cm³)	10.6	11.2	11.6
pH	10.5	10.5	10.5
MBT	90.2	91.2	95.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	1sx
Barite	138sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD IN/R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2999	3006	12	35+ MTR 70	25/27

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED

7000 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2971.7	0.8	13.8
2989.4	0.8	13.7

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	¼	8	Drill 2994m - 2994.8m ⟨Rotate⟩
00:15	00:30	¼	10	Survey @ 2971.7m
00:30	06:15	5¾	2	Drill 2994.8m - 3004m ⟨Rotate⟩
06:15	06:30	¼	7	R/S Function remote choke & resp
06:30	06:45	¼	2	Drill 3004m - 3004.4m ⟨Rotate⟩
06:45	07:00	¼	10	Survey @ 2989.4
07:00	08:00	1	2	Drill 3004.4m - 3006m ⟨Rotate⟩

NOTES: On Rig 8/99 @ 20:30 hrs. Repair Pump / Pony rod clamp / Crown Saver / Safeline Clamp / Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140 000		5203

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickoch	8			☑
DERRICKMAN		Ned Melnyk	8			☑
MOTORMAN		Mike Guerin	8			☑
FLOORMAN		Wayne Chretien	8			☑
FLOORMAN		Adam Murray	8			☑
LEASEMAN		Moise Punch	8			☑
Lease		Joe Redh	8			☑
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1		230	0.30 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock Sub		3.85 m
3	228 D.C.		27.39 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.44 m
1	TBR		1.65 m
	BHA		249.07 m
96	D.P.	STANDS	m
XX	D.P.	SINGLES	2774.61 m
	KELLY DOWN		9.18 m
	TOTAL		3014.5 m
WT. OF DC	35000		1000 daN
WT. OF STRING	117000		1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec.
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	46
TOTAL HOURS RUN	28½

CUTTING STRUCTURE: T_1 T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	22000↑ 17000↓
TORQUE AT BOTTOM	9000 - 11000 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	09:00	13:00	18:30
DENSITY kg/m³	1475	1475	1470
FUNNEL VIS. - (S/L)	72	70	69
W.L. (cm³)	12.0	10.9	11.4
pH	10.3	10.0	10.0
MBT	95.4	96.7	97.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispak	1sx
Lignite	2sxs
Chrinox	1 pail
Sod. Sulf.	1sx
Biocide	1 pail
Alkimer	1sx
Lime	2sxs
Bit Subs.	30 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD IN/R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3006	3014	8	35+ MTR 70	25/27

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15700	152	80	152	80

REDUCED PUMP SPEED

7100 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2999.0	0.7	14.1

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	14:45	6¾	2	Drill F/3006 - 3014m ⟨Rotate⟩
14:45	15:00	¼	10	Survey @ 2999.0m
15:00	15:15	¼	7	R/S Bot pipe 3sec
15:15			22	Function test Pop valves on mud pumps
	15:45	½		Change out one press. Relief.
15:45	16:00	¼	2	Drill F/3014m - 3014.5m ⟨Rotate⟩

Pump Parts Used: Pump #1 - 1 mission head, 1 Liner, 1 suction Seat, 1 suction Valve

NOTES: √Crown Saver, deadline anchor, fastline clamp / Held Environmental Meeting w/crew, Function Pump Pop Valves

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			144 000	Pumping Both Motors	5203

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	12			☑
DERRICKMAN		Jerry Foley	12			☑
MOTORMAN		Kevin Vandenbrand	12			☑
FLOORMAN		Julien Sassie	12			☑
FLOORMAN		Gerald Gilbert	12			☑
LEASEMAN		Lawrence Loreen	12			☑
Lease		Brian Kotchea	12			☑
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1	MTR		9.27 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock Sub		3.85 m
3	228 D.C.		27.39 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.44 m
1	TBR		1.65 m
	BHA		249.07 m
96	D.P.	STANDS	m
XX	D.P.	SINGLES	2774.61 m
	KELLY DOWN		1.68 m
	TOTAL		3022 m
WT. OF DC	35000		1000 daN
WT. OF STRING	117000		1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec.
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	54
TOTAL HOURS RUN	35½

CUTTING STRUCTURE: T_1 T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	20000↑ 17000↓
TORQUE AT BOTTOM	10000 - 11000
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	19:00	21:00	24:00
DENSITY kg/m³	1465	1465	1475
FUNNEL VIS. - (S/L)	68	68	71
W.L. (cm³)	11.5	11.4	12.2
pH	10.0	10.5	10.5
MBT	98.2	99.1	99.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Baroid	70 sxs
Prosis	1.24 m3

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD IN/R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
3014	3022	8	35 MTR 70	25/27

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15700	152	80	152	80

REDUCED PUMP SPEED

7400 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:15	1¼	8	Work on Pump #1 (Head + Liner) Suction Seat + Valve
17:15	24:00	6¾	2	Drill F/3014.5 - 3022m ⟨Rotate⟩

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			140 000		5167 kpa

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Allan Lickoch	4			☑
DERRICKMAN		Ned Melnyk	4			☑
MOTORMAN		Mike Guerin	4			☑
FLOORMAN		Wayne Chretien	4			☑
FLOORMAN		Adam Murray	4			☑
LEASEMAN		Moise Punch	4			☑
Lease		Joe Redh	4			☑
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118144

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

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

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Decanter Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 97 | MONTH 08 | DAY 06 | RIG NO. 58

FUEL @ 8:00 | RIG 1.54 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	228	211.7	DC	76	279	6⅝ REG	27			
2	178	139.9	DC	68	177	5 H90	35	F-1000	Emsco	254
3	127	74.4	HW	76	165	4½ IF	10			
4	127	74.4	S-135	89	168	4½ IF	206	F-1000	Emsco	254
5	127	74.4	S-135	89	168	V	138			

TOTALS

SHALE SHAKER(S) | **RENTALS/SERVICES**

	MORN.	DAY	EVE.
NO. 2 TYPE: Derrick / Derrick			
SCREENS CHANGED ☐ YES ☑ NO			
TOP 210 / TOP 250			
MIDDLE 175 / MIDDLE 175			
BOTTOM 175 / BOTTOM 175			

TMS 1C1838
AMS 4810
Accum Oil - 40

REVISED MARCH 1996

118144

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 97 | MONTH 08 | DAY 08

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Gaylard | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1105

TIME - HRS

CODE NO.	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	22	23	24	25	26
	MORN.					1¼	½	¼													¼		Handle Tools CK. Pump				
	DAY		7¾			½					¼												1¾				
	EVE.		9					¼			¼																
	TOTAL		16¾			1¾	½	½			¾										¼		1¾				

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			96 m
1	mill		8.27 m
1	monel		9.31 m
1	Float Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.55 m
3	228 DC		27.20 m
1	Jars		5.25 m
5	223 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.11 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA	249.07 m
95	D.P.	STANDS	m
X	D.P.	SINGLES	2736.08 m
Stick up	KELLY DOWN		m
	TOTAL		m
WT. OF DC		35000	1000 daN
WT. OF STRING		115000	1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

HOURS RUN | INTAKE DENSITY (kg/m) | OVERFLOW DENSITY (kg/m) | UNDERFLOW DENSITY (kg/m)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D IN/R-C CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2968	2956		35	
2956	2964	MTR	70	3/5

CIRCULATION PRESSURE (kPa): 14300 | PUMP NO. 1: LINER SIZE (mm) 152 | S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152 | S.P.M. 80

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
20:00	01:45	1¾	22	Change mwp Tools & set meter
01:45	02:00	¼	7	RR Function Blind Rams Esec.
02:00	03:30	1½	6	RIH to 249m Flow✓
03:30	04:00	½	6	RIH 249m - 775m Flow✓
04:00	04:30	½	20	Test MWD Tool
04:30	05:30	1	6	RIH 775m - 1697m Flow✓
05:30	05:45	¼	5	Break Circ @ 1697m
05:45	07:00	1¼	6	RIH 1697m - 2956m
07:00	08:00	1	5	Brk. circ. & wash from 2956m to 2964m

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
6					

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	8		☒
DERRICKMAN		Ned Melnyk	8		☒
MOTORMAN		Mike Guerin	8		☒
FLOORMAN		Wayne Chretien	8		☒
FLOORMAN		Adam Murray	8		☒
LEASEMAN		Moise Punch	8		☒
Lease		Joe Redh	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	mill		8.27 m
1	monel		9.31 m
1	Float Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.55 m
3	228 DC		27.20 m
1	Jars		5.25 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.11 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA	249.07 m
95	D.P.	STANDS	m
X	D.P.	SINGLES	2736.05 m
Stick up	KELLY DOWN		3.45 m
	TOTAL		2982.7 m
WT. OF DC		35000	1000 daN
WT. OF STRING		115000	1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	14
TOTAL HOURS RUN	7¾

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 19000↑ 13000↓
TORQUE AT BOTTOM: 9000 - 12000 Nm
FILL ON BOTTOM (m): Nil

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	10:00	14:00	17:00
DENSITY kg/m³	1465	1465	1475
FUNNEL VIS. - (S/L)	70	68	65
W.L. (cm³)	10.0	10.0	10.3
pH	10.0	10.0	10.2
PVT m³	92.5	93.5	88.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Pot. Sulph.	30 sxs
Lime	1 sx
Corinox	1 pail
Sod. Sulf.	1 sx
Aldemer	1 sx
Biocide	1 pail
Peace 1215	1 sx
Viscosa	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)
10:00	1465	1465	1475
14:00	1465	1465	1475
17:00	1475	1475	1470

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)
10:00	1465	1465	1475
14:00	1465	1465	1475
17:00	1475	1475	1470

DAY TOUR

METRES DRILLED

FROM	TO	DR'D IN/R-C CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2968	2982	14	35/86	3/5
		MTR	90	

CIRCULATION PRESSURE (kPa): 14600 | PUMP NO. 1: LINER SIZE (mm) 152 | S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152 | S.P.M. 80

REDUCED PUMP SPEED: 7100 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2960.4	0.7	6.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:30	½	5	Wash ream F/2964 - 2968m
08:30	12:30	4	2	Break in bit # 25 Drill F/2968 - 2975.4m 22.5
12:30	12:45	¼	10	Survey @ 2960.4m
12:45	16:00	3¼	2	Drill F/2975.4m - 2982.7m ↓Rotate
				Held Competency Training meeting w/crew

NOTES: ✓Crown Saver, deadline anchor, fastline clamp
✓Fire extinguishers, Grease Crown & Blocks, ✓ Drawworks, Bolts

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
12			140000	Lockout Policy	5303

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	12		☒
DERRICKMAN		Jerry Foley	12		☒
MOTORMAN		Kevin Vandenbrand	12		☒
FLOORMAN		Julien Sassie	12		☒
FLOORMAN		Gerald Gilbert	12		☒
LEASEMAN		Laurence Loreen	12		☒
Lease		Brian Kotchea	12		☒
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	mill		8.27 m
1	Monel		9.31 m
1	Float Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.55 m
3	228 DC		27.20 m
1	Jars		5.25 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.11 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA	249.07 m
96	D.P.	STANDS	272.29 m
	D.P.	SINGLES	m
Stick up	KELLY DOWN		10.36 m
	TOTAL		2994 m
WT. OF DC		35000	1000 daN
WT. OF STRING		115000	1000 daN

BIT RECORD

BIT NO.	25
SIZE (mm)	311.2
IADC CODE	537B
MFG.	Sec
TYPE	GS86F
SERIAL NO.	726647
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2968
TOTAL METRES DRILLED (m)	26
TOTAL HOURS RUN	14¼

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 18000↑ 15000↓
TORQUE AT BOTTOM: 9000 - 11500 N.M.
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1475	1475	1470
FUNNEL VIS. - (S/L)	65	65	68
W.L. (cm³)	10.5	10.8	11.4
pH	10.2	10.5	10.5
PVT m³	89	90.2	91.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)
18:00	1475	1475	1470
21:00	1475	1475	1470
24:00	1475	1475	1470

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)
18:00	1475	1475	1470
21:00	1475	1475	1470
24:00	1475	1475	1470

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D IN/R-C CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2982	2994	12	35	3/5
		MTR	70	

CIRCULATION PRESSURE (kPa): 14600 | PUMP NO. 1: LINER SIZE (mm) 152 | S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152 | S.P.M. 80

REDUCED PUMP SPEED: 7100 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2970.2	0.8	7.2

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:45	¾	2	Drill F/2982.7 - 2985.2m ↓Rotate
16:45	17:00	¼	7	Rig Service Top pipe 85sec
17:00	17:15	¼	10	Survey @ 2976.2m
17:15	18:00	¾	2	Drill F/2985.2m - 2986.6m ↓Rotate
18:00	18:30	½	23	Check out #2 pump
18:30	24:00	5½	2	Drill F/2986.6 - 2994m ↓Rotate
				#2 Pump Change out Mission Head to SW Head, Repeat diagram.

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
6			135000		5208

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	4		☒
DERRICKMAN		Ned Melnyk	4		☒
MOTORMAN		Mike Guerin	4		☒
FLOORMAN		Wayne Chretien	4		☒
FLOORMAN		Adam Murray	4		☒
LEASEMAN		Moise Punch	4		☒
Lease		Joe Redh	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118143

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Fleth N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: NAI - 6040 - 12330 | UNIQUE ID.: 300 - NAI - 6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J.M.P. Vanley | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Lloyd Lovelett

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Sour Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR: 99 | MONTH: 06 | DAY: 07

RIG NO.: 58

FUEL @ 8:00

RIG: .84 | BOILER

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203	1943	DC	71	273	FH90	10			
178	1343	DC	71	228	6 5/8 REG	10	F-1000	Ensco	254
147	744.8	DP	118	168	4½ IF	206	F-1000	Ensco	254
127	534.2	DP	99	142	↓	138			

REVISED MARCH 1996

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APPROVAL PENDING

118143

BOARD COPY

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Fleth N-61 | YEAR: 99 | MONTH: 08 | DAY: 07

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Lloyd Lovelett | RIG NO.: 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1104

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT-OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			5½			2		¼			¼											Handle Tools				
DAY			4¾			2		1¼	¾		¼										1¼					
EVE.								6½	¼												1¼					
TOTAL			10¼			4		7¾	1		½															

TOTALS

	SHALE SHAKER(S)		RENTALS/SERVICES	MORN.	DAY	EVE.
NO.	TYPE					
2	Derrick	Derrick	TMS 100641			
2	SCREENS CHANGED	☐ YES ☒ NO	AMJ 3613			
2	TOP 210	TOP 250				
2	MIDDLE 175	MIDDLE 175				
24	BOTTOM 175	BOTTOM 175	Arctic Oil: 140			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		7.30 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.90 m
1	Jars		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		84.44 m
1	TBR		1.65 m
	D.P.	STANDS	TBR 248.78 m
95	D.P.	SINGLES	2726.58 m
Stuck	KELLY DOWN		7.36 m
	TOTAL		2968 m
	WT. OF DC		35000 1000 daN
	WT. OF STRING		115000 1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	311.2
IADC CODE	537
MFG.	REED
TYPE	EHP53A
SERIAL NO.	KT2950
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2916
TOTAL METRES DRILLED (m)	48
TOTAL HOURS RUN	52

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | OOC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 190000↑ 190001↓

TORQUE AT BOTTOM: 11000 - 15500 NM

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1450	1455	1460
FUNNEL VIS. - (S/L)	71	71	71
W.L. (cm³)	10.8	10.6	10.5
pH	10.3	10.5	10.5
PV/YP	25.8	24.0	24.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	120 sks
Alcomer 1SX	
Premix	1.25 m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	CORE NO.	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2954	2964	10	35/40	30/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15500	152	80	152	80

REDUCED PUMP SPEED: 7500 @ 90 @ 90 L/m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2941.3	0.8	1.2

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:30	½	2	DRILL 2954m - 2955.5m ↓ROTATE
00:30	02:30	2	5	Circulate Bottoms-up Sample
02:30	02:45	¼	7	R/S Function Btm Ape Rams 6 Sec.
02:45	03:15	½	2	DRILL 2955.5m - 2956.3m ↓ROTATE
03:15	03:30	¼	10	SURVEY @ 2941.3
03:30	08:00	4½	2	DRILL 2956m - 2964m ↓ROTATE

NOTES: ☑ Crown Saver ☑ Deadline Chain ☑ Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			175 000 lbs		52K Hook

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	8		☒
DERRICKMAN		Ned Melnyk	8		☒
MOTORMAN		Mike Guerin	8		☒
FLOORMAN		Wayne Chretien	8		☒
FLOORMAN		Adam Murray	8		☒
LEASEMAN		Moise Punch	8		☒
Lease		Joe Koch	8		☒
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		7.98 m
1	Monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock sub		3.85 m
3	228 DC.		27.30 m
1	Jars		5.75 m
5	228 DC.		46.31 m
1	X/O		1.37 m
6	178 DC.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		84.44 m
1	TBR		1.65 m
	D.P.	STANDS	NIA 248.78 m
95	D.P.	SINGLES	2726.58 m
Stuck	KELLY DOWN		7.36 m
	TOTAL		2968 m
	WT. OF DC		35000 1000 daN
	WT. OF STRING		115000 1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	KT2950
JETS (mm)	3x15.9
DEPTH OUT (m)	2968
DEPTH IN (m)	2916
TOTAL METRES DRILLED (m)	52
TOTAL HOURS RUN	66¾

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | OOC | Reason Pulled | Total Run m/hr. — T/W 0.78

HOLE CONDITION

HOLE DRAG: 230001↑ 150001↓

TORQUE AT BOTTOM: 8000 - 18000 NM

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	08:00	11:30	15:00
DENSITY kg/m³	1465	1470	1465
FUNNEL VIS. - (S/L)	70	68	65
W.L. (cm³)	10.8	10.8	10.8
pH	10.0	10.0	10.0
PV/YP	76.0	92.1	92.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	90 sks
BARITE	20 sks to tour
Corinox	1 pail
Biocide	1 pail
H2O	5.4 m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	CORE NO.	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2954	2968	4	30/35	28/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15500	152	80	152	80

REDUCED PUMP SPEED: 7100 @ 90 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2950.9	0.7	0.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:30	1½	2	Drill F/2964 - 2965.9m ↓Rotate
09:30	09:45	¼	10	Survey @ 2950.9m
09:45	10:00	¼	2	Drill F/2965.9 - 2966.2m ↓Rotate
10:00	10:15	¼	8	Work on mud pump
10:15	11:45	1½	2	Drill F/2966.2 - 2967.5m ↓Rotate
11:45	12:00	¼	8	Work on mud pump
12:00	12:45	¾	2	Drill F/2967.5 - 2967.8m ↓Rotate
12:45	13:00	¼	8	Work on Pump
13:00	13:15	¼	7	Rig Service Function Ann 20sec
13:15	14:00	¾	2	Drill F/2967.8m - 2968m ↓Rotate
14:00	16:00	2	5	Circulate Bottoms up (Sample)

NOTES: ☑ Crown Saver ☑ deadline anchor ☑ fastline clamp
Changed 2 S.W. heads Plus 1 Suction valve Pump #1 - #2 - 15 W + 1 suction valve

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			137000		

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	12		☒
DERRICKMAN		Jerry Foley	12		☒
MOTORMAN		Kevin Vandenbrand	12		☒
FLOORMAN		Julien Sassie	12		☒
FLOORMAN		Gerald Gilbert	12		☒
LEASEMAN		Lawrence Laurent	12		☒
Lease		Brian Kotchea	12		☒
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	D.P.	STANDS	
	D.P.	SINGLES	
	KELLY DOWN		
	TOTAL		
	WT. OF DC		1000 daN
	WT. OF STRING		1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | OOC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG:

TORQUE AT BOTTOM:

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	CORE NO.	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2968				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00			6	V-Flow P.O.H. 5 STDS V-Flow. Pump pill
	10:30	6½	6	P.O.H TO 1978m V-Flow. Flow Chk @ csg shoe
10:30	10:45	¼	9	R/S Function HCR & Blind Rams 9 Sec.
10:45	24:00	13½	22	Change out motor & work on MWD Tools

TRIP Record
Cal - 16.7m³
Actual - 20.70 m³
Diff - 4.63 m³

NOTES: ☑ Crown Saver ☑ Fastline Clamp ☑ Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	A		☒
DERRICKMAN		Ned Melnyk	A		☒
MOTORMAN		Mike Guerin	A		☒
FLOORMAN		Wayne Chretien	A		☒
FLOORMAN		Adam Murray	A		☒
LEASEMAN		Moise Punch	A		☒
Lease		Joe Koch	A		☒
RIG WATCH					

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

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118142

REVISED MARCH 1996

118142

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

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

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flexibles & Dedicated Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/crew/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR	MONTH	DAY
99	08	06

RIG NO. 58

FUEL @ 8:00

RIG 1.46 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BTC	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
178	297.5	DC	71	228	6 5/8 REG	6			
178	179.9	DC	68	178	6 5/8 REG	25	F-1600	Emsco	254
127	74.9	HW	76	152	4½ IF	60	F-1600	Emsco	254
127	29.06	DP	108	152	4½ IF	60			
127	29.06	DP	99	152	4½ IF	138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23 BOP Drill	24	25	26
MORN.			7¼								¼															
DAY			7¼					¼			¼											¼				
EVE.			8																							
TOTAL			23					¼			½											¼				

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE				
1	2 Derrick Derrick	TMJ 9838A			
SCREENS CHANGED	☒ YES ☐ NO	AMJ 1356			
TOP	210 / TOP 250				
MIDDLE	175 / MIDDLE 175				
BOTTOM	175 / BOTTOM 175	* Nexen Oil			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			1.50 m
1	MTR		7.48 m
1	monel		9.31 m
1	Trans Sub		1.40 m
1	Float Sub		.91 m
1	Shock Sub		3.95 m
3	228 DC		27.30 m
1	Jars		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
4	178 DC		37.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	248.76 m
94	D.P.	STANDS	2697.66 m
X	D.P.	SINGLES	2707.46 m
Stuck Pipe	KELLY DOWN		9.06 m
	TOTAL		2947.2 m

WT. OF DC 35000 1000 daN

WT. OF STRING 114000 1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	KT2950
JETS (mm)	3x A:9
DEPTH OUT (m)	
DEPTH IN (m)	2916
TOTAL METRES DRILLED (m)	25
TOTAL HOURS RUN	41¼

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 20000 ↑ 60000 ↓

TORQUE AT BOTTOM 9500 - 10500 Nm

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED		
TIME	08:30	04:00		06:00
DENSITY kg/m³	1455	1455		1455
FUNNEL VIS. - (S/L)	70	71		71
W.L. (cm³)	10.5	10.5		11.0
pH	10.5	10.5		10.5
PVT m³	75.3	21.6		21.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Alcomer	1 sx
Premix	1.37 m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD (M) - PREV. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2937	2941	4	40+ MTR 70	30/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15400	152	120	152	80

REDUCED PUMP SPEED: 7200 @ [ ] @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2922.2	0.7	344.0

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	¼	10	Survey @ 2922.2
00:15	08:00	7¾	2	Drill 2937m - 2941.8m ↙Rotate

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
E			140 000 DaN		5311 kN

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	8		☒
DERRICKMAN		Ned Melnyk	8		☒
MOTORMAN		Mike Guerin	8		☒
FLOORMAN		Wayne Chretien	8		☒
FLOORMAN		Adam Murray	8		☒
LEASEMAN		Mouse Punch	8		☒
Lease		Joe Rodh	8		☒
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			1.50 m
1	MTR		7.48 m
1	monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.91 m
1	Shock Sub		3.95 m
3	228 D.C.		27.30 m
1	Jars		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	248.76 m
94	D.P.	STANDS	2707.46 m
X	D.P.	SINGLES	9.06 m
Stuck Pipe	KELLY DOWN		2947.2 m
	TOTAL		

WT. OF DC 35000 1000 daN

WT. OF STRING 114000 1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	KT2950
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2916
TOTAL METRES DRILLED (m)	31
TOTAL HOURS RUN	48½

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 21000↑ 140000↓

TORQUE AT BOTTOM 8000 - 10500 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED		
TIME	08:30	11:00		16:30
DENSITY kg/m³	1455	1455		1450
FUNNEL VIS. - (S/L)	66	65		76
W.L. (cm³)	10.9	10.3		11.7
pH	10.0	10.0		10.0
PVT m³	73.8	78.9		73.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sod. Sulf.	15x
Gel	36 sx
Soda ash	15x
Lime	2 sxs
Premix	1.8 m³
H₂0	10.0 m³
Biocide	1 Pail

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD (M) - PREV. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2941	2947	6	40/ MTR 70	30/34

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15800	152	80	152	80

REDUCED PUMP SPEED: 6800 @ 80 @ [ ]

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2931.7	0.7	2.1

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	13:45	5¾	2	Drill F/2941.8 - 2945.8 ↙Rotate
13:45	14:00	¼	10	BOP Drill well secure 80sec
14:00	14:15	¼	7	Rig Service function Top pipe 8sec
14:15	15:00	¾	2	Drill F/2945.8 - 2946.7m ↙Rotate
15:00	15:15	¼	10	Survey @ 2931.7m
15:15	16:00	¾	2	Drill F/2946.7m - 2947.2 ↙Rotate
				Check Flare ignitor
				Function Remote choke

NOTES: √Crown Saver, deadline anchor, fastline clamp. Held Camp Fire Drill. Held safety meeting w/crew

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000	General Safety	5275

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Gadreux	12		☒
DERRICKMAN		Terry Foley	12		☒
MOTORMAN		Kevin Vandenbrand	12		☒
FLOORMAN		Julien Sossie	12		☒
FLOORMAN		Gerald Gilbert	12		☒
LEASEMAN		Lawrence Loreen	12		☒
Lease		Brian Kotchea	12		☒
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			1.50 m
1	MTR		7.48 m
1	monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.91 m
1	Shock Sub		3.95 m
3	228 DC		27.30 m
1	Jars		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	248.76 m
94	D.P.	STANDS	2697.66 m
X	D.P.	SINGLES	9.06 m
Stuck Pipe	KELLY DOWN		2947.2 m
	TOTAL		

WT. OF DC 35000 1000 daN

WT. OF STRING 114000 1000 daN

BIT RECORD

BIT NO.	2A
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	KT2950
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2916
TOTAL METRES DRILLED (m)	31
TOTAL HOURS RUN	48½

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 21000↑ 140000↓

TORQUE AT BOTTOM 8000 - 10500 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED		
TIME	18:30	20:30		22:00
DENSITY kg/m³	1450	1445		1450
FUNNEL VIS. - (S/L)	71	64		71
W.L. (cm³)	11.8	11.5		10.5
pH	10.3	10.5		10.5
PVT m³	74.6	71.1		74.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Percol 729	1 sx
Caustic	2 sx
Barite	80 sxs
PAC LVP	28 sxs
Corinox	1 Pail
Sod Sulf	1 sx
Alcomer	1 sx
Premix	1.2 m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD (M) - PREV. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2947	2954	7	40/ MTR 70	30/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15500	152	80	152	80

REDUCED PUMP SPEED: 7000 @ [ ] @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	24:00	8	2	Drill F/2947.2 - 2954m ↙Rotate

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					5348 kPa

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	4		☒
DERRICKMAN		Ned Melnyk	4		☒
MOTORMAN		Mike Guerin	4		☒
FLOORMAN		Wayne Chretien	4		☒
FLOORMAN		Adam Murray	4		☒
LEASEMAN		Mouse Punch	4		☒
Lease		Joe Rodh	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863	WELL NAME AND NO.: Canadian Forest et al Flett N-61
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: NW-6-Fac-12330	UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	08	05

RIG NO. 58

FUEL @ 8:00

RIG 1.90 BOILER

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.18
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	178	235.8	DC	76	254	6 5/8 REG	14			
2	178	178.6	HWDP	76	254	6 5/8 REG	6	F-1000	Emsco	254
3	121	74.9	E2	76	152	4 1/2 IF	26	F-1000	Emsco	254
4	121	74.02	E2	76	152	4 1/2 IF	26			
5	127	85.16	E2	79	165	XH	138			

TIME-HRS

CODE NO.	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.
	MORN.		13					1/4	3/4		1/4											
	DAY		8																			
	EVE.		3																			
	TOTAL		24					1/4	3/4		1/4											

TOTALS

	SHALE SHAKER(S)	RENTALS/SERVICES	MORN.	DAY	EVE.
8	NO. TYPE: Brandt Dsmyk	Tmt 98310			
8	SCREENS CHANGED ☐ YES ☒ NO	AMT 1282			
8	TOP 210 / TOP 250				
8	MIDDLE 175 / MIDDLE 175				
24	BOTTOM 175 / BOTTOM 175	Aerum oil - 40			

WELL NAME & NO.	Canadian Forest et al Flett N-61
OPERATOR	Canadian Forest Oil
CONTRACTOR	Akita Drilling LTD
RIG MANAGER	Early/Forth
RIG NO.	58
PROVINCE	N.W.T.
CAMP ☒ YES ☐ NO	
RIG SAFETY DAYS	1102

YEAR 99 MONTH 08 DAY 05

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Mill		0.30 m
1	Monel		7.48 m
1	Trans Sub		9.31 m
1	Float Sub		1.90 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jars		2.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W		81.44 m
1	TBR		1.65 m
		BHA	246.78 m
94	D.P.	STANDS	2697.86 m
	D.P.	SINGLES	m
	KELLY DOWN		14.04 m
	TOTAL		2938.68 m
	WT. OF DC	35000	1000 daN
	WT. OF STRING	114000	1000 daN

BIT RECORD

BIT NO.	24
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	KT2950
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2916
TOTAL METRES DRILLED (m)	12
TOTAL HOURS RUN	17 1/2

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 12000↑ 15000↑
TORQUE AT BOTTOM 8500 - 9500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	02:00	04:00	06:00
DENSITY kg/m³	1460	1460	1455
FUNNEL VIS. - (S/L)	73	71	71
W.L. (cm³)	10.5	10.5	10.5
pH	10.5	10.5	10.5
PVT m3	76.3	72.6	73.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	1 Pail
Soda Ash	1sx
Lime	1sx
Alkonol	1sx
Barite	20sxs

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RM.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2924	2928	4	35 & MTR 70	30/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15700	152	80	152	80

REDUCED PUMP SPEED

7300 @ 68 @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2912.5	0.5	346.0

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:45	3/4	6	Work on Pump #1
00:45	05:15	4 1/2	2	Drill 2924.7m - 2926.8m ⟨ROTATE
05:15	05:30	1/4	7	RS Function Annular 21 Sec.
05:30	06:15	3/4	2	Drill 2926.8m - 2927.5m ⟨ROTATE
06:15	06:30	1/4	10	Survey @ 2912.5m
06:30	08:00	1 1/2	2	Drill 2927.5m - 2928m ⟨Rotate

NOTES: Changed liner & New Mission - #1 Pump. √Crown Saver, Deadline Anchor, Fastline Clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
			140 000 Daw		5311 kPa

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Lockoch	8		S
DERRICKMAN		Ned Melnyk	8		ZS
MOTORMAN		Mike Guerin	8		MG
FLOORMAN		Wayne Chretien	8		C
FLOORMAN		Adam Murray	8		AM
LEASEMAN		Moise Punch	8		MP
Lease		Joe Kodh	8		JK
RIG WATCH					

INJURIES

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Mill		0.30 m
1	Monel		7.48 m
1	Trans Sub		9.31 m
1	Float Sub		1.90 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jars		2.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W		81.44 m
1	TBR		1.65 m
		BHA	246.78 m
94	D.P.	STANDS	2697.86 m
	D.P.	SINGLES	m
	KELLY DOWN		14.04 m
	TOTAL		2938.68 m
	WT. OF DC	35000	1000 daN
	WT. OF STRING	114000	1000 daN

BIT RECORD

BIT NO.	24
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	KT2950
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2916
TOTAL METRES DRILLED (m)	16
TOTAL HOURS RUN	35 1/2

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 30000↑ 16000↓
TORQUE AT BOTTOM 9000 - 10500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	08:00	10:00	14:00
DENSITY kg/m³	1465	1460	1460
FUNNEL VIS. - (S/L)	70	68	73
W.L. (cm³)	10.6	10.6	10.3
pH	10.5	10.5	10.5
PVT m3	74.9	75.6	69.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	24 sxs
Pot Sulph.	28 sxs
Sod Sulf.	1 sx
Drimix	1 pail
Premix	1.8 m³
Biocide	1 pail
Alkomer	1 sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RM.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2926	2932	4	35 & MTR 70	30/35

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15700	152	80	152	80

REDUCED PUMP SPEED

7300 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	16:00	8	2	Drill F/2928 - 2932.6 ⟨Rotate

NOTES: √Crown Saver, deadline anchor, fast line clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000		5375

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Ron Cadieux	12		RC
DERRICKMAN		Jerry Foley	12		JF
MOTORMAN		Kevin Vandenbrand	12		KV
FLOORMAN		Julien Sassie	12		JS
FLOORMAN		Gerald Gilbert	12		GG
LEASEMAN		Lawrence Loreen	12		LL
Lease		Brian Kotchea	12		BK
RIG WATCH					

INJURIES

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Mill		0.30 m
1	Monel		7.48 m
1	Trans Sub		9.31 m
1	Float Sub		1.90 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jars		2.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W		81.44 m
1	TBR		1.65 m
		BHA	248.78 m
94	D.P.	STANDS	2697.86 m
	D.P.	SINGLES	m
	KELLY DOWN		9.70 m
	TOTAL		2937 m
	WT. OF DC	35000	1000 daN
	WT. OF STRING	114000	1000 daN

BIT RECORD

BIT NO.	24
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	KT2950
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2916
TOTAL METRES DRILLED (m)	21
TOTAL HOURS RUN	43 1/2

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 20000↑ 16000↓
TORQUE AT BOTTOM 9000 - 12500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	18:00	21:00	24:00
DENSITY kg/m³	1460	1455	1460
FUNNEL VIS. - (S/L)	70	71	70
W.L. (cm³)	10.0	11.0	10.5
pH	10.5	10.5	10.5
PVT m³	71.0	72.3	73.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	1 Pail
Soda Ash	1sx
Lost Sig. Alkonol	1sx
Lime	1sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RM.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2932	2937	5	35/40 MTR 70	18/35

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED

7200 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	24:00	8	2	Drill F/2932.6 - 2937m ⟨ROTATE

NOTES: √Crown Saver, fastline clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					5275 kPa

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Lockoch	4		S
DERRICKMAN		Ned Melnyk	4		ZS
MOTORMAN		Mike Guerin	4		MG
FLOORMAN		Wayne Chretien	4		C
FLOORMAN		Adam Murray	4		AM
LEASEMAN		Moise Punch	4		MP
Lease		Joe Kodh	4		JK
RIG WATCH					

INJURIES

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118140

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ET AL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

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

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	08	04

RIG NO. 58

FUEL @ 8:00

RIG 776 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203	245.3	DC	76	330	FH90	35			
178	174.8	DC	58	178	6⅝IF	10	F-1000	EMSCO	254
127	74.4	E	108	165	4½IF	506	F-1000	EMSCO	254
127	29.03	E	108	163	↓	138			
127	38.10	E	89	163					

REVISED MARCH 1996

118140

BOARD COPY

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest ET AL FLETT N61 | YEAR: 99 | MONTH: 08 | DAY: 04

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: DAVE Lauck Gary Patrick | RIG NO.: 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1101

TIME-HRS

CODE NO.	1 OPER.	2 RIG-UP & TEAR DOWN	3 DRLG. ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.							4¾	¼		¾											¼	Handle Tools			
DAY			4				14½		¾													2			
EVE.			¾						1¼																
TOTAL			4¾				19	¼	2	¾											¼	2			

TOTALS: 8 / 8 / 8 / 24

SHALE SHAKER(S)

NO.	TYPE
2	Derrick
2	Derrick

SCREENS CHANGED ☐ YES ☒ NO

	TOP	MIDDLE	BOTTOM
	210	175	175
	250	175	175

RENTALS/SERVICES

	MORN.	DAY	EVE.
TMJ-98209			
AMJ-1181			
Accumoil-40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Bit Sub		.38 m
1	Monel		9.31 m
1	Transsub		1.90 m
1	Float Sub		.91 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA:	248.78 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		35000	1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	23	24	
SIZE (mm)	311.2	311.2	
IADC CODE	537	537	
MFG.	Reed	Reed	
TYPE	EHP53A	EHP53A	
SERIAL NO.	LX8273	KT2950	
JETS (mm)	3x15.9	3x15.9	
DEPTH OUT (m)	2916		
DEPTH IN (m)	2757	2916	
TOTAL METRES DRILLED (m)	159		
TOTAL HOURS RUN	120		

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
3	4	WT	A	F	I	BT	TD	1.3

HOLE CONDITION

HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED		
TIME	Trip Record	
DENSITY kg/m³	mess-21.69	
FUNNEL VIS. - (S/L)	Cal-17.72	
W.L. (cm³)	DIFF-3.92	
pH		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLG. TIME CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2916				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	01:00	1	6
01:00			22
	03:00	2	23
03:00	04:45	1¾	6
04:45	05:00	¼	20
05:00	05:45	¾	9
05:45	06:00	¼	7
06:00	08:00	2	6

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

P.O.O.H. Flow ✓ @ H.W., OUT OF Hole
Break off B.T and inspect, ✓ M.W.D. Set up motor
make up new B.T. Change out Jars, function BI, W.R.
R.I.H. TO 780m. Flow ✓
Test M.W.D.
Slip and cut 20m of Drill line.
RB, Function Annular 18 sec ck, 1
Flow ✓, Continue R.I.H. TO
#2 pump MISSION HEAD + Liner
LD 3 JOINTS OF E2 pipe.
LD Jars SN# 10882, P/U Jars SN# 10884

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					5275 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		RON SWISCOSKI	8		RS
LEASEMAN		DuFord Kotchea	8		DK
Lease		Jason Mouye	8		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

METRES DRILLED

FROM	TO	DRLG. TIME CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2916	2920	4	35 MTR 70	29/30

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15400	152	80	152	80

REDUCED PUMP SPEED

7000 @ @ 70

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
0800	0830	½	6
0830	0845	¼	5
0845	1015	1½	6
1015	1115	1	5
1115	1145	½	8
1145	1430	2¾	2
1430	1445	¼	8
1445	1600	1¼	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RIH to 2175 Flow ✓
Break circ @ 2175m
RIH to 2850m
Break circ. @ 2850 wash to 6Tm
Work on Pump
Break in BT Drill 2916m - 2919m ↻ Rotate
Work on Pump
Drill 2919m - 2920m ↻ Rotate

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000 DAN		5239 KPA

DAY TOUR 08:00 TO 16:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	8		AL
DERRICKMAN		Ned Melnyk	8		NM
MOTORMAN		Mike Guerin	8		MG
FLOORMAN		Wayne Chretien	8		WC
FLOORMAN		Adam Murray	8		AM
LEASEMAN		Moose Punch	8		MP
Lease		Joe Koth	8		JK
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

METRES DRILLED

FROM	TO	DRLG. TIME CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2920	2924	4	35 MTR 70	29½2

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13400	152	80	152	80

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2920		
1465		
71		
10.3		
10.5	= PVT m³ 76.1	

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
1600	1730	1½	2
1730	1800	½	8
1800	2315	5¼	2
2315	2400	¾	8

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill F/2920m - 2921.8m ↻ Rotate
Work on #1 Pump
Drill F/2921.8m - 2924.7m
Work on Pumps

NOTES: ✓ Crown Saver, deadline anchor, fast line clamp
Held Safety Meeting W/Crew

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000	Debris in Pipe	5203

EVENING TOUR 16:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Jerry Foley	8		JF
MOTORMAN		Kevin Vanderkraad	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Gerald Gilbert	8		GG
LEASEMAN		Lawrence Loreen	8		LL
Lease		Brian Kotchea	8		BK
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Bit Sub		.30 m
1	Monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.91 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.75 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	146.78 m
93	D.P.	STANDS	m
X	D.P.	SINGLES	2678.75 m
	KELLY DOWN		9.53 m
	TOTAL		2826 m
WT. OF DC		35000	1000 daN
WT. OF STRING		113000	1000 daN

BIT RECORD

BIT NO.	24		
SIZE (mm)	311.2		
IADC CODE	537		
MFG.	Reed		
TYPE	EHP53A		
SERIAL NO.	KT2950		
JETS (mm)	3 x 15.9		
DEPTH OUT (m)			
DEPTH IN (m)	2916		
TOTAL METRES DRILLED (m)	4		
TOTAL HOURS RUN	4		

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 200000# 150000#
TORQUE AT BOTTOM: 10500 - 14500 NM
FILL ON BOTTOM (m): 0

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED		
TIME	12:30	15:00
DENSITY kg/m³	1470	1465
FUNNEL VIS. - (S/L)	78	76
W.L. (cm³)	10.5	10.5
pH	10.5	10.5
PVT	76.1	76.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Bit Sub		.30 m
1	Monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.91 m
1	Shock Sub		3.85 m
3	228 D.C.		27.20 m
1	Jar		5.75 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	248.78 m
93	D.P.	STANDS	m
X	D.P.	SINGLES	2678.75 m
	KELLY DOWN		3.53 m
	TOTAL		2924 m
WT. OF DC		35000	1000 daN
WT. OF STRING		113000	1000 daN

BIT RECORD

BIT NO.	24		
SIZE (mm)	311.2		
IADC CODE	537		
MFG.	Reed		
TYPE	EHP53A		
SERIAL NO.	KT2950		
JETS (mm)	3x15.9		
DEPTH OUT (m)			
DEPTH IN (m)	2916		
TOTAL METRES DRILLED (m)	8		
TOTAL HOURS RUN	10¾		

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 220000# 160000#
TORQUE AT BOTTOM: 9500 - 10500 NM
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED		
TIME	16:00	18:00 / 20:30
DENSITY kg/m³	1470	1470 / 1470
FUNNEL VIS. - (S/L)	69	71 / 72
W.L. (cm³)	10.8	10.9 / 10.3
pH	10.0	10.0 / 10.5
PVT m³	77.6	77.6 / 77.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Pot. Sulph.	28 SKS
Lime	2 SKS
#20	
Carbonox	1 pail
Sod. Sulf.	1 SK
Biocide	1 pail

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ET AL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial
(1) Rig Site Health and Safety Meeting (crew meeting) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (crew/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial DK
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 08 | DAY 03 | RIG NO. 58

FUEL @ 8:00: RIG 1.06 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB TO CSG HEAD (m)	SET AT (m)
339.7	315.3	101.2	BTC	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203	215.5	DC	71	248	7 5/8 REG	14			
178	174.8	DC	68	178	6 5/8 REG	25	F-1000	Emsco	254
127	74.4	HW	79	165	4½ IF	10	F-1000	Emsco	254
127	29.02	E3	108	162		306			
127	38.10	E3	89	162	↓	138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26	TOTALS
MORN.			7½					¼			¼															8
DAY			6½						½																	8
EVE.						1½	6¼	¼			¼															8
TOTAL			14			1½	6¼	½	½		½															24

SHALE SHAKER(S) — NO. 1 TYPE: Derrick / Derrick | SCREENS CHANGED ☐ YES ☐ NO | TOP 210 / 250 | MIDDLE 175 / 175 | BOTTOM 175 / 175

RENTALS/SERVICES (MORN. / DAY / EVE.)
Tmt-96766
AmJ-7872
Accum oil - 40

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1100

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			1.20 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA=	248.80 m
93	D.P.	STANDS	2669.08 m
	D.P.	SINGLES	m
Stick Up	KELLY DOWN		6.88 m
	TOTAL		2911 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	113000	1000 daN	

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	153
TOTAL HOURS RUN	113¼

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 15000↑ 15000↓ DAN
TORQUE AT BOTTOM: 12000-14500 NM
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1460	1460	1460
FUNNEL VIS. - (S/L)	77	77	77
W.L. (cm³)	10.5	10.5	10.5
pH	10.5	10.5	10.5
PVT m³	71.1	73.0	73.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Carbonox	1 pail
Sodsulfite	1 sx
Lime	1 sx
Alcomer	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2899	2911	12	95T mtr 70	30/31

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED: 7400 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2893.5	0.5	321.2

DRILLER SIGNATURE: Dave Lauck

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	05:30	5½	2	Drill f/2899m - 2908m ↻Rotate
05:30	05:45	¼	10	Survey @ 2898.5m
05:45	06:00	¼	7	RIS Function Lower Pipe Ram 6 Secds
06:00	08:00	2	2	Drill f/2908m - 2911m

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000 DAN		5275 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	8		☒
DERRICKMAN		Mike WatRich	8		☒
MOTORMAN		Wendell Bethel	8		☒
FLOORMAN		Lars Asak	8		☒
FLOORMAN		Ron Swiscoski	8		☒
LEASEMAN		DuFord Ketchea	8		☒
Lease		Jason Mouye	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR 08:00 TO 20:00

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			1.20 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HWDP		81.94 m
1	TBR		1.65 m
		BHA=	248.80 m
92	D.P.	STANDS	2667.08 m
	D.P.	SINGLES	m
Stick Up	KELLY DOWN		1.88 m
	TOTAL		2916 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	113000	1000 daN	

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	2757
DEPTH IN (m)	158
TOTAL METRES DRILLED (m)	120
TOTAL HOURS RUN	

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG:
TORQUE AT BOTTOM: 12000 - 14500 NM
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	08:30	12:00	15:00
DENSITY kg/m³	1460	1465	1460
FUNNEL VIS. - (S/L)	76	76	77
W.L. (cm³)	10.5	10.0	10.0
pH	10.5	10.5	10.5
PVT m³	74.4	74.4	75.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Carbonox	1 Pail
Sodsulfite	1 SX
Polyplug	2 SWS
Barite	160 SKS
Lime	2 SKS
Biocide	1 Pail
Desco	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2911	2916	5	95T mtr 70	29/31

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED: 7400 @ 80 @ 95 Rpm

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1	2	Drill 2911m - 2912m ↻Rotate
09:00	09:30	½	8	Work on Pump #2
09:30	12:00	2½	2	Drill 2912m - 2914m ↻Rotate
12:00	12:45	¾	6	Work on Pump #1
12:45	16:00	3¼	2	Drill 2914m - 2916.3 ↻Rotate

NOTES: Closed valve on pulsation dampener on #2 Pump. #2 Pump Changed 2 SWS Heads, Piston & Liner (in Kind) √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000 Dan.		5275 Kpa

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	12		☒
DERRICKMAN		Ned McInyk	12		☒
MOTORMAN		Mike Guerin	12		☒
FLOORMAN		Wayne Chretien	12		☒
FLOORMAN		Adam Murray	12		☒
LEASEMAN		Morse Punch	12		☒
Lease		Joe Kodh	12		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			1.20 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA=	248.80 m
93	D.P.	STANDS	2669.08 m
	D.P.	SINGLES	— m
Stick Up	KELLY DOWN		1.53 m
	TOTAL		2916.35 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	113000	1000 daN	

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	2916
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	159
TOTAL HOURS RUN	120

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
3	4	WT	A	E	I	BT	PR	11.3

HOLE CONDITION

HOLE DRAG:
TORQUE AT BOTTOM:
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	12:00
DENSITY kg/m³	1460
FUNNEL VIS. - (S/L)	74
W.L. (cm³)	10.5
pH	10.5
PVT m³	79.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	75 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2916				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15700	152	80	152	80

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2901.4	0.5	335.3

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:45	¾	5	Circulate 50m3-up Recondition Mud
16:45	17:00	¼	10	Survey @ 2901.4
17:00	17:30	½	5	Circulate 50m3-up Condition Mud
17:30	17:45	¼	7	RIS Flow/ Lay Down 2 Singles
17:45	04:00	6¼	6	Pooh Hours 5, 15 stds, 45 sds, H.W.

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			150000 DAN		5275 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	4		☒
DERRICKMAN		Mike Watrich	4		☒
MOTORMAN		Wendell Bethel	4		☒
FLOORMAN		Lars Asak	4		☒
FLOORMAN		RON Swiscoski	4		☒
LEASEMAN		DuFord Ketchea	4		☒
Lease		Jason Mouye	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

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LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ET AL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

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

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Fanelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 08 | DAY 02 | RIG NO. 58 | FUEL @ 8:00 | RIG 1.48 | BOILER

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER

O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
3927	315.3	106.2	BTSC	K55	58	735.55	6.62	735.12

	DC/DP SIZE (mm)	LINEAR MASS kg/m	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	228	174.8	DC	58	178	5½FH	25	F-1000	EMSCO	254
2	178	174.8	DC	58	178	5½FH	25	F-1000	EMSCO	254
3	127	74.4	HW	74	165	4½IF	10			
4	127	35.02	E3	108	162		306	F-1000	EMSCO	254
5	127	38.10	E3	89	162		1 138			

REVISED MARCH 1996

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest ET AL FLETT N61 | YEAR 99 | MONTH 08 | DAY 02

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: DAVE Leach | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1099

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26	TOTALS
	MORN.		7½					¼	½		¼																	8
	DAY		7					¼	½		¼																	8
	EVE.		7½					¼			½																	8
	TOTAL		21½					¾	1¼		1																	24

SHALE SHAKER(S)

NO.	TYPE
1	Derrick
2	Derrick

SCREENS CHANGED ☐ YES ☒ NO

TOP	210	TOP	250
MIDDLE	175	MIDDLE	175
BOTTOM	175	BOTTOM	175

RENTALS/SERVICES

	MORN.	DAY	EVE.
TMS-94743			
AMS-5849			
Accum pit-.40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Insert	311	0.30 m
1	Monel		7.95 m
1	Trans Sub		9.31 m
1	Float Sub		1.90 m
1	Shock Sub		.81 m
3	228 DC		3.85 m
1	Jar		27.20 m
5	228 DC		5.77 m
1	XO		46.31 m
6	178 DC		1.37 m
1	XO		57.29 m
1	TBR		1.41 m
9	HW		1.71 m
1	TBR		81.94 m
			1.65 m
		BHA=	248.80 m
91	D.P.	STANDS	2630.79 m
XX	D.P.	SINGLES	
Stick up	KELLYDOWN		2.59 m
	TOTAL		2677 m
WT. OF DC		35000	1000 daN
WT. OF STRING		112000	1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	120
TOTAL HOURS RUN	91¾

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 17000↑ 13000↓

TORQUE AT BOTTOM 10000 - 14500 Nm

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1450	1455	1460
FUNNEL VIS. - (S/L)	81	99	77
W.L. (cm³)	12.0	120	12.0
pH	10.5	10.5	10.5
PVT m³	73.1	77.8	77.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Carimex	¢1 pail
Sod Sulfite	1 SX
Alcomer	1 SX
BAcite	130 SX
Drispac	1 SX
lignite	2 SX
lime	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	HRS ON BOTTOM	DRILLING / REAMING / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2869	2877	6	55 MTR	30/31	
	Slide	TOTAL=7.0		39/45	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15800	152	80	152	80

REDUCED PUMP SPEED

7900 @ 2876m @ 80

8100

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2855	1.2	324.8

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	01:00	1	2
01:00	01:15	¼	10
01:15	06:15	5	2
06:15	06:30	¼	7
06:30	06:45	¼	8
06:45	8:00	1¼	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill f/2869m - 2870.6m ¢ROTATE

Survey @ 2855m

Drill f/2870.6m - 2876m ¢Slide.

RIS, Function Annular, 18 sec @ 5 / RSDP

Work on Pump.

Drill f/2876m - 2877m

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			150000 DAN		5275 KPA

MORNING TOUR 00:00 TO 08:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethke	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		Ron Swiscoski	8		RS
LEASEMAN		DuFord Kotchea	8		DK
Lease		Jason Mouye	8		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Insert		0.30 m
1	Monel		7.95 m
1	Trans Sub		9.31 m
1	Float Sub		1.90 m
1	Shock Sub		.81 m
3	228 DC		3.85 m
1	Jar		27.20 m
5	228 DC		5.77 m
1	XO		46.31 m
6	178 DC		1.37 m
1	XO		57.29 m
1	TBR		1.41 m
9	HW		1.71 m
1	TBR		81.94 m
			1.65 m
		BHA=	248.80 m
92	D.P.	STANDS	2649.88 m
X	D.P.	SINGLES	
Stick up	KELLYDOWN		12.68 m
	TOTAL		2886 m
WT. OF DC		35000	1000 daN
WT. OF STRING		112000	1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	129
TOTAL HOURS RUN	91¾

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 15000↑ 13000↓

TORQUE AT BOTTOM 10000 - 13000 Nm

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1455	1460	1460
FUNNEL VIS. - (S/L)	77	75	74
W.L. (cm³)	12.5	12.5	11.0
pH	10.0	10.5	10.5
PVT m³	72.5	72.4	75.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Carimex	2 Pails
Sod Sulfite	2 SX
Lime	2 SX
Lignite	2 SX
Baroid	2 SX
Bicarb	1 SX
Lig	2 SX
Biocide	1 Pail

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	HRS ON BOTTOM	DRILLING / REAMING / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2877	2886	9	55 MTR	30/31	
			Slide 7.0	39/45	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152	80	152	80

REDUCED PUMP SPEED

7400 @ 80 @

7600

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2884.6	1.2	317.6

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
8:00	9:00	1	2
9:00	9:15	¼	7
9:15	9:30	¼	2
9:30	9:45	¼	10
9:45	10:45	1	2
10:45	11:15	½	8
11:15	16:00	4¾	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRILL 2877m - 2879m ¢ROTATE

RIS FUNCTION ANNULAR CHOKE √ 5 SEC

DRILL 2879m - 2879.6m ¢ROTATE

SURVEY @ 2869.6

DRILL 2879.6m - 2881m ¢SLIDE 2m

WORK ON PUMP #2

DRILL 2881m - 2886m ¢Rotate 1m Slide 4m

#2 Pump: Up Hole Swivel Head

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000 DAN		5275 KPA

DAY TOUR 08:00 TO 20:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Lickech	12		AL
DERRICKMAN		Ned McLinyk	12		NM
MOTORMAN		Mike Guerin	12		MG
FLOORMAN		Ivan Gauthier	12		IG
FLOORMAN		Adam Moreau	12		AM
LEASEMAN		Mark Finch	12		MF
Lease		Joe Rain	12		JR
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	Insert		0.30 m
1	Monel		7.95 m
1	Trans Sub		9.31 m
1	Float Sub		1.90 m
1	Shock Sub		.81 m
3	228 DC		3.85 m
1	Jar		27.20 m
5	228 DC		5.77 m
1	XO		46.31 m
6	178 DC		1.37 m
1	XO		57.29 m
1	TBR		1.41 m
9	H.W.		81.94 m
1	TBR		1.71 m
			1.65 m
		BHA=	248.80 m
93	D.P.	STANDS	2669.08 m
—	D.P.	SINGLES	—
Stick up	KELLYDOWN		18.88 m
	TOTAL		2899.00 m
WT. OF DC		35000	1000 daN
WT. OF STRING		113000	1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	141
TOTAL HOURS RUN	105¾

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 15000↑ 18000↓

TORQUE AT BOTTOM 12000 - 16000 Nm

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1460	1450	1460
FUNNEL VIS. - (S/L)	77	79	80
W.L. (cm³)	10.8	12.0	12.0
pH	10.5	10.0	10.5
PVT m³	76.1	77.7	70.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	1 SX
Barite	65 SX
Polysalfide	28 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	HRS ON BOTTOM	DRILLING / REAMING / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2886	2899	12	55 MTR	30/31	
	Slide	TOTAL=7.0		39/42	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED

7400 @ 80 @

7600

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2879.1	1.0	315.4
2883.7	0.7	316.8

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	18:45	2¾	2
18:45	19:00	¼	10
19:00	23:00	4	2
23:00	23:15	¼	7
23:15	23:30	¼	10
23:30	24:00	½	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRILL 2886m - 2890m ¢SLIDE 4m

SURVEY @ 2874.1

DRILL 2890m - 2898m ¢ROTATE

RIS Function Upper Pipe Rams 6 sec √ BOP

Survey @ 2883.7m

Drill f/2898 - 2899m ¢Rotate

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.
Held environmental meeting

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000 DAN	Mixing mud/Using sack	5275 KPA

EVENING TOUR 20:00 TO 24:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bethke	4		WB
FLOORMAN		Lars Asak	4		LA
FLOORMAN		Ron Swiscoski	4		RS
LEASEMAN		DuFord Kotchea	4		DK
Lease		Jason Mouye	4		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118137

REVISED MARCH 1996

118137

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.:	WELL NAME AND NO.:
1863	Canadian Forest ETAL Flett N61
OPERATOR:	CONTRACTOR:
Canadian Forest Oil	AKita Drilling LTD
SURFACE LOCATION:	UNIQUE ID.:
N61-6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial / Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial / Initial
(3) Mast Inspection Before Raising or Lowering — Initial / Initial
(4) Crown Saver Checked — Initial / Initial
(5) Motor Kills checked — Initial / Initial

YEAR	MONTH	DAY
99	08	01

RIG NO. 58

FUEL @ 8:00

RIG	BOILER
48	

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228	218.4	DC	71	279.4	7 5/8 Reg	4			
178	174.8	DC	58	178	5 1/2 IF	23	F-1000	Emsco	254
127	74.9	HW	74	165	4 1/2 IF	10	F-1000	Emsco	254
127	29.02	E2	108	162	↓	306			
127	30.10	E3	89	162	↓	138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			7 3/4					1/4			1/4															
DAY			7 3/4								1/4															
EVE.			7 1/4					1/4	1/4		1/4															
TOTAL			22 3/4					1/2	1/4		3/4															

SHALE SHAKER(S)

NO.	TYPE
2	Derrick / Derrick

SCREENS CHANGED ☐ YES ☒ NO

	TOP	BOTTOM
8	210	250
8	175	175
24	175	175

RENTALS/SERVICES

	MORN	DAY	EVE
TMJ-94288			
AmJ-5394			
Accum Oil - 40			

WELL NAME & NO.: Canadian Forest ETAL Flett N61
YEAR 99 MONTH 08 DAY 01
OPERATOR: Canadian Forest Oil
CONTRACTOR: AKita Drilling LTD
RIG MANAGER: DAVE Lauck
RIG NO. 58
PROVINCE: N.W.T.
CAMP ☒ YES ☐ NO
RIG SAFETY DAYS: 1098

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
	KELLY/DOWN		12.30 m
1	MONEL		9.31 m
1	Float Sub		1.50 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		6.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
	BHA: 248.80 m		
91	D.P. STANDS		2611.68 m
—	D.P. SINGLES		— m
STICK UP	KELLY/DOWN		12.45 m
	TOTAL		2848 m
WT. OF DC		35000	1000 daN
WT. OF STRING		110000	1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	REED
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	91
TOTAL HOURS RUN	64 1/4

CUTTING STRUCTURE: T, T0, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG	18000 ↑ 12000 ↓ DAN
TORQUE AT BOTTOM	10000 - 13000 NM
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	02:00	04:00	06:00
DENSITY kg/m³	1450	1460	1455
FUNNEL VIS. - (S/L)	90	84	80
W.L. (cm³)	11.5	11.5	11.5
pH	10.5	10.5	10.5
PVT m³	83.4	85.3	86.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sodaash	1 sx
Drispac	1 sx
Lignite	2 sx
Desco	1 sx
Lime	3 sx
Alcomer	1 sx
Barite	70 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	CIRC. PRESS. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2840	2848	B	35+ mtr 70	30/32 31/47

CIRCULATION PRESSURE (kPa)

	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED

7900	@	80	@ 2840m
8100			

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2826.3	1.1	7.9

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	00:15	1/4	2
00:15	00:30	1/4	7A
00:30	01:15	3/4	2
01:15	01:30	1/4	10
01:30	08:00	6 1/2	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill F/2840m - 2840.5m & Rotate
RIS Function upper pipe Rams & Check ✓BSPP
Drill F/2840.5m - 2841.4m & Rotate
Survey @ 2826.3m
Drill F/2841.4m - 2848m

NOTES: ✓Crown Saver Fastline Clamp Deadline Anchor
Held Competency Training meeting

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140000 DAN	Emergency Response	5275 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethke	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		RON SWISCOSKI	8		RS
LEASEMAN		DuFord Kotchea	8		DK
Lease		Jason Mouye	8		JM
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
	KELLY/DOWN		12.30 m
1	MONEL		9.31 m
1	Float Sub		1.50 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		6.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HWDP		51.64 m
1	TBR		1.65 m
	BHA: 248.80 m		
91	D.P. STANDS		2611.68 m
—	D.P. SINGLES		— m
STICK UP	KELLY/DOWN		0.48 m
	TOTAL		2860 m
WT. OF DC		35000	1000 daN
WT. OF STRING		110000	1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	103
TOTAL HOURS RUN	77

CUTTING STRUCTURE: T, T0, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG	18000 ↑ 12000 ↓
TORQUE AT BOTTOM	10000 - 13500 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	08:30	13:00	15:00
DENSITY kg/m³	1450	1450	1450
FUNNEL VIS. - (S/L)	85	87	87
W.L. (cm³)	12.5	11.6	12.0
pH	10.5	10.5	10.5
PVT m³	87.4	89.9	91.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	2 Pails
Sal/sulph	2 sxs
Bar Sulph	28 sxs
Pencor 729	25 xs
Sulfamic Acid	2 sxs
Biocide	1 Pail
Drispac	2 sxs
Lig	4 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	CIRC. PRESS. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2848	2860	12	35+ mtr 70	30/32 31/47

CIRCULATION PRESSURE (kPa)

	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15300	152	80	152	80

REDUCED PUMP SPEED

7900	@	80	@

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2836.0	1.1	353.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	09:15	1/4	2
09:15	09:30	1/4	10
09:30	16:00	6 1/2	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill 2848m - 2851m & Rotate
Survey @ 2836.0
Drill 2851m - 2860m & Slide 5m

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			125000 Dan		5348 kpa

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	12		AL
DERRICKMAN		Ned Melnyk	12		NM
MOTORMAN		Mike Guerin	12		MG
FLOORMAN		Wayne Chretien	12		WC
FLOORMAN		Adam Murray	12		AM
LEASEMAN		Moise Punch	12		MP
Lease		Joe Rodh	12		JR
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
	KELLY/DOWN		12.30 m
1	MONEL		9.31 m
1	Float Sub		1.50 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		6.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
	BHA: 248.80 m		
91	D.P. STANDS		m
XX	D.P. SINGLES		2630.79 m
Sticking	KELLY/DOWN		10.59 m
	TOTAL		2869.00 m
WT. OF DC		35000	1000 daN
WT. OF STRING		112000	1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	112
TOTAL HOURS RUN	84 1/4

CUTTING STRUCTURE: T, T0, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG	15000 ↑ 12000 ↓
TORQUE AT BOTTOM	10000 - 14500
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	18:00	21:00	24:00
DENSITY kg/m³	1450	1445	1450
FUNNEL VIS. - (S/L)	81	80	82
W.L. (cm³)	12.5	12.5	12.5
pH	10.5	10.5	10.5
PVT m³	91.5	69.5	70.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Soda Ash	
Barite	130 sx
Pot Sulfate	44 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	CIRC. PRESS. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2860	2869	9	35+ mtr 70	30/32 31/47

CIRCULATION PRESSURE (kPa)

	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15300	152	80	152	80

REDUCED PUMP SPEED

7900	@	80	@

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2845.5	1.1	340.7

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	16:15	1/4	7
16:15	16:30	1/4	2
16:30	16:45	1/4	10
16:45	19:00	2 1/4	2
19:00	19:15	1/4	8
19:15	24:00	4 3/4	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

R/S Function BOP, Pipe Rams & Slip Rams
Drill 2860m - 2860.5m & Rotate
Survey @ 2845.5
Drill 2860.5m - 2863.5 & Slide 3m
Work on Pump #1
Drill F/2863.5m - 2869m & Slide 3m, ROT-2.5

NOTES: #1 Pump - Changed 1 S.W. Head.
✓Crown Saver, Fastline Clamp, Deadline Anchor.
✓Fire Extinguishers

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			145000 DAN		5349 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bethke	4		WB
FLOORMAN		Lars Asak	4		LA
FLOORMAN		RON SWISCOSKI	4		RS
LEASEMAN		DuFord Kotchea	4		DK
Lease		Jason Mouye	4		JM
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118136

LICENCE NO.:	WELL NAME AND NO.:
1863	Canadian Forest ET AL FLETT N61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	Akita Drilling LTD
SURFACE LOCATION:	**UNIQUE ID.:**
N61-6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**
	Dave Louck

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H*S Signs Posted (if required)	Initial	Initial
(4) Well License & Sour Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR	MONTH	DAY
99	07	31

RIG NO. 58

FUEL @ 8:00

RIG 96 | BOILER

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.69	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	203.2	203.8	Z5	74	254	6 5/8 REG	11			
2	178	174.8	D5	58	178	5 1/2 FH	25	F-1000	EMSCO	254
3	127	74.4	HW	74	165	4 1/2 IF	10			
4	127	74.09	E2	108	162	↓	306	F-1000	EMSCO	254
5	127	38.10	E3	89	162		138			

REVISED MARCH 1996

118136

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest ET AL FLETT N61	99	07	31
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akita Drilling LTD		
RIG MANAGER: Dave Louck	RIG NO. 58		
PROVINCE: N.W.T.	CAMP ☒ YES ☐ NO	RIG SAFETY DAYS: 1097	

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.		7	7					1/4	1/4													B.O.P. Drill			
DAY		5	8					1/4	1		1/4														
EVE.		7 1/2																							
TOTAL		24	15					1/2	1 1/2		1/4												1/4		

TOTALS

SHALE SHAKER(S)			RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE					
2	Derrick	Derrick	TMJ-93988			
SCREENS CHANGED	☐ YES ☒ NO		AMJ-5094			
TOP	210	TOP 250				
MIDDLE	175	MIDDLE 175				
BOTTOM	175	BOTTOM 175	Accum oil - 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1	Monel		7.98 m
1	Monel		9.31 m
1	Float Sub		1.80 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
89	D.P.	STANDS	m
XX	D.P.	SINGLES	3573.34 m
Stick up	KELLY DOWN		2.64 m
	TOTAL		2824.78 m
WT. OF DC	35000		1000 daN
WT. OF STRING	109000		1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	73
TOTAL HOURS RUN	17 3/4

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	18000 ↑ 12000 ↓
TORQUE AT BOTTOM	10000-11500 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	02:00	04:00	06:00
DENSITY kg/m³	1445	1445	1450
FUNNEL VIS. - (S/L)	82	80	80
W.L. (cm³)	11.5	12.0	12.5
pH	10.5	10.5	10.5
PVT m³	86.1	88.1	89.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sod Sulfite	1 sx
Lime	2 sx
Dr-Spac	1 sx
BARite	136 sx
Alcomer	1 sx
Pot Sulfate	36 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2812	2820	8	35↑ mtr 70	27/31
	Slide		mtr 70	36/39

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15100	152	80	152	80

REDUCED PUMP SPEED

8000 @ 2812 m @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	1/4	7	RIS Function Annular 18 sec cls √RSPP
00:15	02:45	1 1/2	2	Drill F/2812m-2815m <Slide
02:45	03:00	1/4	8	Work on Pump
03:00	07:15	4 1/4	2	Drill F/2815m-2819m Slide 1.5m, Rot-2.5m
07:15	07:30	1/4	8	Work on Pump
07:30	08:00	1/2	2	Drill 2819m-2820m <Rotate
				Pump #2 - Changed 1 S.W. Head

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000 DAN	Motor Vehicle Oper	5348 KPA

MORNING TOUR 00:00 TO 08:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		Ron Swiscoski	8		RS
LEASEMAN		DuFord Katchea	8		DK
Lease		Jason Mouye	8		JM
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1	Monel		7.98 m
1	Monel		9.31 m
1	Float Sub		1.80 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HWDP		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
10	D.P.	STANDS	m
	D.P.	SINGLES	2574.44 m
Stick up	KELLY DOWN		11.34 m
	TOTAL		2834.58 m
WT. OF DC	35000		1000 daN
WT. OF STRING	110000		1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	73
TOTAL HOURS RUN	5A 1/4

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	9000 ↑ Heavy ↓
TORQUE AT BOTTOM	10000-13000 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	08:00	12:00	15:00
DENSITY kg/m³	1450	1455	1450
FUNNEL VIS. - (S/L)	89	86	90
W.L. (cm³)	12.5	11.8	12.0
pH	10.5	10.5	10.5
PVT m³	90.3	93.4	91.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	2 Pails
Sod Sulfite	2 sxs
Baryte	68 sxs
Dr-Spac	2 sxs
Lig	4 sxs
Desco	2 sxs
Biocide	1 Pail
Lime	2 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
		Baryte Add	

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1455	1260	2150

DAY TOUR

METRES DRILLED

FROM	TO	CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2820	2830	10	35↑ mtr 70	27/31
	Slide		mtr 70	36/39

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
5700	152	80	152	80

REDUCED PUMP SPEED

8400 @ 80 @ 2820m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2807.0	0.6	74

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
06:00	08:00	1	2	Drill 2820m-2821m Slide
08:00	09:15	1 1/4	7	R/S Function Remote Choke √SPP
09:15	09:30	1/4	2	Drill 2821m-2822m <Rotate
09:30	09:45	1/4	10	Survey @ 2807.0
09:45	10:45	1	2	Drill 2822m-2823m <Rotate
10:45	11:15	1/2	8	Work on Pump #1
11:15	14:45	3 1/2	2	Drill 2823m-2829m <Rotate
14:45	15:15	1/2	8	Work on Pump #2
15:15	16:00	3/4	2	Drill 2829m-2830m <Rotate
				#1 Pump: Changed SW Head
				#2 Pump: Changed SW Head.

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000 DAN		5348 KPA

DAY TOUR 08:00 TO 20:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Allan Lickoch	12		AL
DERRICKMAN		Ned Melnyk	12		NM
MOTORMAN		Mike Guerin	12		MG
FLOORMAN		Wayne Chretien	12		WC
FLOORMAN		Adam Murray	12		AM
LEASEMAN		Moise Punch	12		MP
Lease		Joe Koch	12		JK
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
1	Monel		7.98 m
1	Monel		9.31 m
1	Float Sub		1.80 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
90	D.P.	STANDS	m
X	D.P.	SINGLES	2582.54 m
Stuck up	KELLY DOWN		1.34 m
	TOTAL		2840.00 m
WT. OF DC	35000		1000 daN
WT. OF STRING	110000		1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	83
TOTAL HOURS RUN	6 3/4

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	20000 ↑ 14000 ↓
TORQUE AT BOTTOM	10500 - 13000 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	16:00	21:00	24:00
DENSITY kg/m³	1450	1450	1450
FUNNEL VIS. - (S/L)	89	84	89
W.L. (cm³)	12.0	12.5	12.5
pH	10.5	10.5	10.5
PVT m³	94.3	93.4	87.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sod Sulfite	1 sx
Pot Sulfate	28 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1450		

EVENING TOUR

METRES DRILLED

FROM	TO	CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2830	2840	10	35↑ mtr 70	27/31
	Slide		mtr 70	36/45

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15400	[illegible]	80	[illegible]	80

REDUCED PUMP SPEED

9200 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2816.8	1.0	147

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:00	1	2	Drill 2830m-2831m <Rotate
17:00	17:15	1/4	10	Survey @ 2816.8
17:15	21:15	4	2	Drill 2831m-2836m Slide
21:15	21:30	1/4	22	B.O.P. Drill Well Secure 1 min.
21:30	24:00	2 1/2	2	Drill F/2836m-2840m <Rotate

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140 000 DAN	B.O.P. Drill	5348 KPA

EVENING TOUR 20:00 TO 24:00

INJURIES

CREW	SOC. INS. NO.	NAME	HRS	YES	NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bethel	4		WB
FLOORMAN		Lars Asak	4		LA
FLOORMAN		~~Ron~~ Ron Swiscoski	4		RS
LEASEMAN		DuFord Katchea	4		DK
Lease		Jason Mouye	4		JM
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

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118135

REVISED MARCH 1996

118135

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ET AL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature] | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lueck

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (once/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR	MONTH	DAY
99	07	30

RIG NO. 58

FUEL @ 8:00

RIG 78 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (D/m)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE TH/PEAD	NO. OF JOINTS
1	228	174.8	DC	71.4	228	4½ IF	25
2	178	174.8	DC	58	178	4½ IF	25
3	127	74.4	HW	74	165	4½ IF	10
4	127	29.08	S2	100	140	V	206
5	127	38.10	E3	89	162	V	138

	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	F-1000	Emsco	254
2	F-1000	Emsco	254

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			7½					¼			¼														
DAY			7½								½														
EVE.			7½				¼				½														
TOTAL			22½				¼	¼			1														

TOTALS

	SHALE SHAKER(S)	RENTALS/SERVICES	MORN.	DAY	EVE.
8	1 Type: Derrick	Derrick TMJ-93791			
8	2 Type: Derrick	AMJ-4897			
8	SCREENS CHANGED ☐ YES ☒ NO				
8	TOP 210 / TOP 250				
8	MIDDLE 175 / MIDDLE 175				
24	BOTTOM 175 / BOTTOM 175	Accum oil - 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT SUB		0.30 m
1	STABILIZER		7.98 m
1	Trans Sub		1.40 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
89	D.P.	STANDS	2553.96 m
	D.P.	SINGLES	m
Stickup	KELLY DOWN		12.76 m
	TOTAL		2790.00 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	106000	1000 daN	

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	33
TOTAL HOURS RUN	25½

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG 14000↑ 11000↓

TORQUE AT BOTTOM 10000 - 11000 NM

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	02:00	04:00	06:00
DENSITY kg/m³	1455	1450	1450
FUNNEL VIS. - (S/L)	82	85	84
W.L. (cm³)	12.0	12.0	12.5
pH	10.5	10.5	10.5
PVT m³	116.8	110.2	111.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Pot Sulfide	28 SX
Sod Sulfite	1 SX
Corrosex	1 pail
Lime	2 SX
Drispac	1 SX
Barite	60 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLG RBR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2780	2790	10	55 PUMP 70	20 31

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15400	152	80	152	80

REDUCED PUMP SPEED: 8200 @ 80 @ 2783

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2768.9	0.5	29.4

DRILLER SIGNATURE: [signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	03:30	3½	2
03:30	03:45	¼	7
03:45	03:15	½	2
03:15	03:30	¼	10
03:30	08:00	4½	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

00:00 - 03:30 Drill F/2780.6m - 2783m <ROTATE
03:30 - 03:45 RIS. Function Lower Pipe Rams 6sec/4SPP
03:45 - 03:15 Drill F/2783m - 2783.9m <ROTATE
03:15 - 03:30 Survey @ 2768.9m
03:30 - 08:00 Drill F/2783.9m - 2790m <ROTATE

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			140 000 DAN		5348 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Jendell Bethel	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		Ron Swiscoski	8		RS
LEASEMAN		DuFord Katchea	8		DK
Lease		Jason Mouye	8		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT SUB		0.30 m
1	STABILIZER		7.98 m
1	Trans Sub		1.40 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
89	D.P.	STANDS	2553.96 m
	D.P.	SINGLES	m
Stickup	KELLY DOWN		m
	TOTAL		2802 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	107000	1000 daN	

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	44
TOTAL HOURS RUN	33½

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG 1000↑ 11000↓

TORQUE AT BOTTOM 10000 - 12000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	08:00	12:00	16:00
DENSITY kg/m³	1450	1470	1450
FUNNEL VIS. - (S/L)	84	93	92
W.L. (cm³)	13.0	12.5	12.0
pH	10.5	10.5	10.5
PVT m³	113.6	103.2	95.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Pot Sulfide	2 SX
Sod Sulfite	2 SX
Corrosex	2 PAILS
Lime	1 SX
Drispac	3 SXS
Lig	8 SXS
Barite	2 SXS
Gel	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
3	1210	1170	1220

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
3	1210	1170	2280

DAY TOUR

METRES DRILLED

FROM	TO	DRLG RBR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2790	2801	11	55 PUMP 70	20 31

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15400	152	80	152	80

REDUCED PUMP SPEED: 8200 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2776	0.4	7.8

DRILLER SIGNATURE: [signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
06:00	10:30	2½	2
10:30	10:45	¼	10
10:45	16:00	5¼	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

06:00 - 10:30 Drill 2790m - 2793m <ROTATE
10:30 - 10:45 Survey @ 2776.2
10:45 - 16:00 Drill 2793m - 2801m <ROTATE

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor
Change Blocks & Drum

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
2			145 000 DAN		5348 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	12		
DERRICKMAN		Ned Melnyk	12		
MOTORMAN		Mike Guerin	12		
FLOORMAN		Wayne Chretien	12		
FLOORMAN		Adam Murray	12		
LEASEMAN		Morse Punch	12		
Lease		Joe Keith	12		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT SUB		0.30 m
1	STABILIZER		7.98 m
1	Trans Sub		1.40 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
89	D.P.	STANDS	m
XX	D.P.	SINGLES	3573.24 m
Stickup	KELLY DOWN		9.24 m
	TOTAL		2812.80 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	107000	1000 daN	

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	55
TOTAL HOURS RUN	40½

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG 19000↑ 12000↓

TORQUE AT BOTTOM 10000 -

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED	
TIME	18:00	21:00	24:00
DENSITY kg/m³	1450	1450	1450
FUNNEL VIS. - (S/L)	92	97	82
W.L. (cm³)	11.6	11.8	13.0
pH	10.1	10.5	10.5
PVT m³	89.2	85.8	85.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corrosex	1 pail
Pot Sulfide	1 SX
Lignite	4 SX
Drispac	2 SX
Barite	68 SX
Rev Dust	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLG RBR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2801	2812	11	55 PUMP 70	20 31

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15100	152	80	152	80

REDUCED PUMP SPEED: 8000 @ 80 @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2787.6	0.6	9.7
2797.4	0.8	9.2

DRILLER SIGNATURE: [signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	16:30	½	2
16:30	16:45	¼	7
16:45	17:15	½	2
17:15	17:30	¼	10
17:30	23:45	6¼	2
23:45	24:00	¼	10

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

16:00 - 16:30 Drill 2801m - 2802m <ROTATE
16:30 - 16:45 RIS Function Test Pipe Rams 7sec
16:45 - 17:15 Drill 2802m - 2802.9m <ROTATE
17:15 - 17:30 Survey @ 2787.6
17:30 - 23:45 Drill 2802.9m - 2812m <ROTATE
23:45 - 24:00 Survey @ 2797.4

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000 DAN		5349 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bethel	4		WB
FLOORMAN		Lars Asak	4		LA
FLOORMAN		Ron Swiscoski	4		RS
LEASEMAN		DuFord Katchea	4		DK
Lease		Jason Mouye	4		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

118134

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LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ET AL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Slick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually inspect BOP's - Flarelines & Degasser Lines
(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 07 | DAY 29 | RIG NO. 58

FUEL @ 8:00 RIG 1.29 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG. HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K-55	58	735.55	6.60	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	203	73.5	DS	74	273	5 H90	35	F-1000	EMSCO	254
2	178	174.8	DS	58	178	5 H90	35	F-1000	Emsco	254
3	127	74.4	HW	52	165	4½ IF	10			
4	↓	53.21	E	68	↓	↓	806			
5		38.21	E	88			190			

REVISED MARCH 1996

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest ET AL FLETT N61 | YEAR 99 | MONTH 07 | DAY 29

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1095

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.		3/4				1	3/4															1/4 Drill			
DAY		7 1/4						1/4			1/4														
EVE.		7 1/2						1/4			1/4														
TOTAL		16				1	3/4	1/2			1/2											1/4			

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO. 8	TYPE Derrick	Derrick TmJ-93558			
SCREENS CHANGED ☐ YES ☒ NO		AmJ-4664			
8 TOP 210	TOP 250				
8 MIDDLE 175	MIDDLE 175				
24 BOTTOM 175	BOTTOM 175	Accum OIL - 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
			0.30 m
1	monel		7.78 m
1	mono		9.31 m
1	Trans sub		1.96 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.34 m
1	X10		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
87	D.P.	STANDS	m
XX	D.P.	SINGLES	2516.06 m
Stickup	KELLY DOWN		3.86 m
	TOTAL		2761 m
WT. OF DC			35000 1000 daN
WT. OF STRING			105000 1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	4
TOTAL HOURS RUN	3 1/4

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	
TORQUE AT BOTTOM	10000 - 11000 NM
FILL ON BOTTOM (m)	0

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED
TIME	06:00	
DENSITY kg/m³	1465	
FUNNEL VIS. - (S/L)	100	
W.L. (cm³)	10	
pH	10.5	
PVT m³	100.0	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR — METRES DRILLED

FROM	TO	CODE RBR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2757	2761	4	35+ mtr	8/31
			mtr = 70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED: 8400 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Gary Patrick

MORNING TOUR — TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:45	1¾	6	R.I.H. To 780m, Flow ✓ 10 min
01:45	02:00	¼	5	Break Circ, TEST M.W.D.
02:00	03:15	1¼	6	R.I.H. TO 1885m, Flow ✓ 10 min
03:15	03:30	¼	5	Fillpipe, Break Circulation
03:30	04:15	¾	6	R.I.H to 2720m, Flow ✓
04:15	04:45	½	5	Fillpipe, Break Circ, Wash 37m To Bottom
04:45	8:00	3¼	2	Break in BIT, Drill F/2757.6m - 2761m

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			125000 DAN		5239 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		RON SWISCOSKI	8		RS
LEASEMAN		DuFord Ketchea	8		DK
Lease		Jason Mouye	8		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
			0.30 m
1	monel		7.78 m
1	mono		9.31 m
1	Trans sub		1.96 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.34 m
1	X10		1.41 m
1	TBR		1.71 m
9	HWDP		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
87	D.P.	STANDS	m
X	D.P.	SINGLES	2535.11 m
Stickup	KELLY DOWN		3.86 m
	TOTAL		2789.77 m
WT. OF DC			35000 1000 daN
WT. OF STRING			105000 1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3x15.9
DEPTH OUT (m)	2757
DEPTH IN (m)	2761
TOTAL METRES DRILLED (m)	4
TOTAL HOURS RUN	3 1/4

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	9000 ↑ 12000 ↓
TORQUE AT BOTTOM	10000 - 11000 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED
TIME	09:00	12:00 / 15:00
DENSITY kg/m³	1460	1465 / 1465
FUNNEL VIS. - (S/L)	93	95 / 94
W.L. (cm³)	11.0	11.6 / 11.8
pH	10.6	10.0 / 10.0
PVT m³	101.9	110.2 / 108.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	1 Pail
Lignite	6 sx
Soda Ash	1 Pail
Desco	1 sx
Barite 220	15 sx
Alkaphos	1 sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR — METRES DRILLED

FROM	TO	CODE RBR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2761	2770	7	35+ mtr	8/31
			mtr = 70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED: 8400 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2749.9	0.4	39.6

DRILLER SIGNATURE

DAY TOUR — TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
06:00	10:30	2½	2	DRILL 2761m - 2769.3m ROTATE
10:30	10:45	¼	7	R/S Function Annular 28 sec. ✓ BOP
10:45	11:00	¼	22	BOP. Drill Well Secure 70 sec.
11:00	11:15	¼	2	DRILL 2769.3m - 2769.9 ROTATE
11:15	11:30	¼	10	Survey @ 2749.9
11:30	16:00	4½	2	DRILL 2769.9m - 2770m ROTATE

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor, FLARE LINE IGNITORS, Function Knife Check

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			125000 DAN		5239 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	12		AL
DERRICKMAN		Ned Melnyk	12		NM
MOTORMAN		Mike Guerin	12		MG
FLOORMAN		Wayne Chretien	12		WC
FLOORMAN		Adam Murray	12		AM
LEASEMAN		Moise Punch	12		MP
Lease		Joe Redh	12		JR
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D.mm	LENGTH
			0.30 m
1	monel		7.98 m
1	mono		9.31 m
1	Trans sub		1.96 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.34 m
1	X10		1.41 m
1	TBR		1.71 m
9	HWDP		81.94 m
1	TBR		1.65 m
		BHA:	248.80 m
88	D.P.	STANDS	m
X	D.P.	SINGLES	2535.11 m
Stickup	KELLY DOWN		3.31 m
	TOTAL		2780.60 m
WT. OF DC			35000 1000 daN
WT. OF STRING			105000 1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX8273
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	23
TOTAL HOURS RUN	18

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	16000 ↑ 17000 ↓
TORQUE AT BOTTOM	10000 - 11000 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE	☒ WATER BASED	☐ OIL BASED
TIME	18:00	21:00 / 24:00
DENSITY kg/m³	1465	1460 / 1460
FUNNEL VIS. - (S/L)	96	80 / 81
W.L. (cm³)	11.8	13.2 / 12.5
pH	10.5	10.0 / 10.5
PVT m³	123	118.5 / 114.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Pot Sulfate	20 sx
Barite	30 sx
Lignite	2 sx
Desco	1 sx
Duromec	1 sx
Drispac	1 sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN 8 | INTAKE DENSITY (kg/m³) 1120 | OVERFLOW DENSITY (kg/m³) 1030 | UNDERFLOW DENSITY (kg/m³) 1680

EVENING TOUR — METRES DRILLED

FROM	TO	CODE RBR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2770	2780	10	35+ mtr	8/31
			mtr = 70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED: 8400 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2749.9	0.4	15.9

DRILLER SIGNATURE: Gary Patrick

EVENING TOUR — TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	19:00	3	2	DRILL 2770m - 2774m ROTATE
19:00	19:15	¼	10	Survey @ 2752.4
19:15	23:45	4½	2	DRILL 2774m - 2780.6m
23:45	24:00	¼	7	R/S Function Upper pipe rams 6 sec ✓ K/S

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			125000 DAN		5275 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bethel	4		WB
FLOORMAN		Lars Asak	4		LA
FLOORMAN		RON SWISCOSKI	4		RS
LEASEMAN		DuFord Ketchea	4		DK
Lease		Jason Mouye	4		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118133

REVISED MARCH 1996

118133

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

LICENCE NO.	WELL NAME AND NO.
1863	CDN Forest Etal Flett N-61
OPERATOR	**CONTRACTOR**
Canadian Forest Oil	AKita Drilling LTD
SURFACE LOCATION	**UNIQUE ID.**
N61-6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE	**SIGNATURE OF CONTRACTOR'S RIG MANAGER**

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using check)(bi) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial
(1) Rig Site Health and Safety Meeting (when crew/month) — Initial / Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial / Initial
(3) Mast Inspection Before Raising or Lowering — Initial / Initial
(4) Crown Saver Checked — Initial / Initial
(5) Motor Kills checked — Initial / Initial

YEAR	MONTH	DAY
99	07	28

RIG NO. 58

FUEL @ 8:00

RIG 67 | BOILER

WEATHER
TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203.2	203.2	D.C.	76.2	254.0	6⅝ REG	14			
177.8	174.8	D.C.	57.2	177.8	5½ FH	35	F-1000	Emsco	356
139.7	71.8	H-W	77	165.1	4½ IF	10	F-1000	Emsco	356
↓	38.09	E75	108.0	↓	↓	206			

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.		7½					¼			¼											Hook Tools					
	DAY		11			3½	4½																				
	EVE					4½	4½																				
	TOTAL		8¾			9½	9½	¼			½											3½		3½			

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE				
8	2 Derrick	TMT-92535			
SCREENS CHANGED ☑ YES ☐ NO		AMT-3641			
8	TOP 210	TOP 250			
6	MIDDLE 175	MIDDLE 175			
24	BOTTOM 175	BOTTOM 175			
		ACC Oil 40			

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N-61	99	07	28
OPERATOR	CONTRACTOR		
Canadian Forest Oil	AKita Drilling LTD.		
RIG MANAGER	RIG NO.		
Dave Lauck	58		
PROVINCE	CAMP ☑ YES ☐ NO	RIG SAFETY DAYS	
N.W.T.		1094	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			+.30 m
1	MWD		7.91 m
1	monel		9.31 m
1	Transub		1.90 m
1	float sub		.81 m
1	shock		3.85 m
3	228 DC		27.20 m
1	XO		1.37 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
1	H.W.		91.94 m
1	TBR		1.65 m
		BHA	248.73 m
87	D.P.	STANDS	m
XX	D.P.	SINGLES	3516.06 m
STICKUP	KELLY DOWN		9.39 m
	TOTAL		3755.50 m
WT. OF DC			35000 1000 daN
WT. OF STRING			105000 1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	537
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72GT
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	176
TOTAL HOURS RUN	101¼

CUTTING STRUCTURE: T_1 T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 16000↑ 13000↓
TORQUE AT BOTTOM 11000 - 13000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

	02:30	04:30	06:00
TIME			
DENSITY kg/m³	1460	1460	1455
FUNNEL VIS. - (S/L)	88	84	84
W.L. (cm³)	10.5	10.6	10.7
pH	10.5	10.0	10.5
PVT m³	118.4	116.1	114.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	1 pail
Sod. Sulf.	1 sx
BARITE	42 SXS
LIME	2 SXS
Pot. Sulph.	28 SXS
Transfer 5m³ to water	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1130	1030	1610

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1340	1130	1910
	Barite Recovered		
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1460	1340	2360

MORNING TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2741	2755	14	35↑/30	29/31
		3 HR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	80	152	80

REDUCED PUMP SPEED

8100 @ 70 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2730.9	0.1	80.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	02:15	2¼	2
02:15	02:30	¼	7
02:30	02:45	¼	10
02:45	08:00	5¼	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill F/2741 - 2745.9m ∠Rotate
Rig Service, function Top pipe & sec
Survey @ 2730.9m
Drill F/2745.9m - 2755m ∠Rotate
Pump Parts #1 1 S.W. HEAD + Suc. VALVE
Pump #2 - 1 SW Head

NOTES √Crown Saver, deadline anchor, fast line clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000		5275

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Jerry Foley	8		JF
MOTORMAN		Kevin Vandenbroud	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Gerald Gilbert	8		GG
LEASEMAN		Lawrence Loreen	8		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			+.30 m
1	MWD		7.91 m
1	monel		9.31 m
1	Transub		1.90 m
1	float sub		.81 m
1	shock sub		3.85 m
3	228 DC		27.20 m
1	XO		1.37 m
5	228 DC		46.31 m
1	XO		1.37 m
6	178 DC		57.29 m
1	XO		1.41 m
1	TBR		1.71 m
9	H.W.		91.94 m
1	TBR		1.65 m
		BHA =	248.73 m
87	D.P.	STANDS	m
XX	D.P.	SINGLES	2516.06 m
STICKUP	KELLY DOWN		7.19 m
	TOTAL		2757.60 m
WT. OF DC	35000.		1000 daN
WT. OF STRING	105000		1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	537
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72GT
JETS (mm)	3x15.9
DEPTH OUT (m)	2757
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	178
TOTAL HOURS RUN	102½

CUTTING STRUCTURE: T_1 T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled: TQ | Total Run m/hr. 1.7

HOLE CONDITION

HOLE DRAG 20000↑ 15000↓
TORQUE AT BOTTOM 11000 - 15000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

	08:30		
TIME			10:00
DENSITY kg/m³	1460		1460
FUNNEL VIS. - (S/L)	82		81
W.L. (cm³)	13.2		12.2
pH	10.2		10.2
PVT m³	115.7		116.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	1sac
Caustic	1 pail
Barite	130 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2755	2757	2	35↑/70	29/31
		1 HR		

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15600	152	80	152	80

REDUCED PUMP SPEED

Choke 8100 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2740.2	0.3	75.2

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	08:15	¼	10
08:15	09:30	1¼	2
09:30	11:00	1½	5
11:00	14:15	3¼	6
14:15	14:30	¼	5
14:30	16:00	1½	6

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Survey @ 2740.2m
Drill F/2755m - 2757.6m ∠ROTATE
Circulate bottoms up.
Flow P.O.O.H. Flow/10min @ 5stds, 10stds
Pump P/U @ 1884m
P.O.O.H. Flow/10min, 45 stds
Trip Record
Cal 16.76 m³
Mea 32.17 m³
Diff -2.41 m³

NOTES √Crown Saver Fastline Clamp Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			145000 DAN		5275 KPA

DAY TOUR 08:00 TO 16:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Ron Swiscosk.	4		RS
DERRICK		Mike Watrich	4		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Lars Asuk	8		LA
FLOORMAN		Ron Swiscoski	4		RS
LEASEMAN		DuFord Katchea	8		DF
Lease		Jason Mouye	8		JM
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			+.30 m
1	MWD		7.91 m
1	monel		9.31 m
1	Transub		1.90 m
1	float sub		.81 m
1	shock sub		3.85 m
3	228 DC		27.20 m
1	XO		1.37 m
5	228 DC		46.31 m
1	XO		1.37 m
6	178 DC		57.29 m
1	XO		1.41 m
1	TBR		1.71 m
9	H.W.		91.94 m
1	TBR		1.65 m
		BHA =	248.73 m
87	D.P.	STANDS	m
XX	D.P.	SINGLES	2516.06 m
STICKUP	KELLY DOWN		7.19 m
	TOTAL		2757.60 m
WT. OF DC	35000.		1000 daN
WT. OF STRING	105000		1000 daN

BIT RECORD

BIT NO.	23
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	LX4273
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2757
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_1 T_0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME			
DENSITY kg/m³			
FUNNEL VIS. - (S/L)			
W.L. (cm³)			
pH			

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2757				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	20:15	4¼	6
20:15			22
	23:45	3½	6
23:45	24:00	¼	7

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

P.O.O.H. Flow/ Hold out of Hole
Break Bit for Lay Down MTR Replace cut Drill Line
Pu motor & set Make up Bit & 23. Flow/
RIH, Function Blind rams. 6sec c/s

Pump Parts #1: 2 discharge seats & Valves, 1 liner cap gasket, 2 discharge valve gasket
Plate

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					5275

EVENING TOUR 16:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	8		AL
DERRICKMAN		Ned Melnyk	8		NM
MOTORMAN		Mike Guerin	8		MG
FLOORMAN		Wayne Chretien	8		WC
FLOORMAN		Adam Murray	8		AM
LEASEMAN		Moise Punch	8		MP
Lease		Joe Redth	8		JR
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118132

LICENCE NO.:	WELL NAME AND NO.:
1863	CDN Forest Etal Flett N-61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	Akita Drilling LTD
SURFACE LOCATION:	**UNIQUE ID.:**
N61-6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**
	Dave Lauck

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H/S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	07	27

RIG NO. 58

FUEL @ 8:00

RIG 112 | BOILER

WEATHER
TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	228.6	214.5	D	158	279.4	6⅝ FH	10			
	178	174.8	D	58	178	5" H90	35	F-1000	Emsco	254
	127	74.8	N-80	79	165		10	F-1000	Emsco	254
		39.03	E	108		4½ IF	206			
↓	↓	38.09	E	102	↓	↓	134			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	SAFETY MTG.	21	22	23	24	25	26
OPER.																											
MORN.		7½					¼			¼																	
DAY		7¼					¼			½																	
EVE.		7¾								¼																	
TOTAL		22½					½			1																	

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO. / TYPE					
3	Derrick	TMJ 1430			
SCREENS CHANGED	☑ YES ☐ NO	AMJ 90329			
8 TOP	210 TOP 175				
8 MIDDLE	175* MIDDLE				
24 BOTTOM	175 BOTTOM	ACC Oil 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.30 m
1	MFR		7.91 m
1	Monel		9.31 m
1	Trans sub		1.40 m
1	Float sub		0.61 m
1	Shock		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		248.73 m
86	D.P.	STANDS	2468.86 m
	D.P.	SINGLES	m
Stickup	KELLY DOWN		5.59 m
	TOTAL		2712 m
WT. OF DC			35000 1000 daN
WT. OF STRING			104000 1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	527
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	133
TOTAL HOURS RUN	78¾

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.: 1.7

HOLE CONDITION

HOLE DRAG 160000↑ 120000↓
TORQUE AT BOTTOM 10000 - 12500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	03:00	05:00	06:30
DENSITY kg/m³	1450	1450	1450
FUNNEL VIS. - (S/L)	79	84	80
W.L. (cm³)	10.0	10.0	10.0
pH	10.0	10.0	10.5
PVT m³	114.2	115.2	115.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Bit Sulph	28 sxs
Sod. Sulf.	1 sx
BARITE	64 sxs
H20	5.7 m³
FERROTROL	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1160	1030	1460

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1210	1160	1860

Barite Recovery

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1445	1310	2300

Pull 6m³ Mud to Tank/Add 6m³ Fresh Water

METRES DRILLED

FROM	TO	DRLG HRS CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2698	2712	14	35/60	7/31
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14600	152	80	152	80

REDUCED PUMP SPEED

7600 @ @ 40

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2693.0	0.1	73.9

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	05:15	5¼	2	Drill F/2698.5-2708m ↙Rotate
05:15	05:30	¼	7	R/S Function Bot pipe 8sec
05:30	05:45	¼	10	Survey @ 2693m
05:45	08:00	3¼	2	Drill F/2708m-2712m ↙Rotate
				Change Head #1 pump S.W.

NOTES √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000		5348

MORNING TOUR

REVISED MARCH 1996

118132

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N-61	99	07	27
OPERATOR: Canadian Forest Oil	CONTRACTOR: AKita Drilling LTD.		
RIG MANAGER: Dave Lauck	RIG NO.: 58		
PROVINCE: N.W.T	CAMP ☐ YES ☐ NO	RIG SAFETY DAYS: 1093	

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Jerry Foley	8		JF
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Gerald Gilbert	8		GG
LEASEMAN		Lawrence Loreen	8		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.30 m
1	MFR		7.91 m
1	Monel		9.31 m
1	Trans sub		1.40 m
1	Float sub		0.61 m
1	Shock sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
	BHA		248.73 m
86	D.P.	STANDS	2468.86 m
X	D.P.	SINGLES	2478.00 m
Stickup	KELLY DOWN		.03 m
	TOTAL		2726.80 m
WT. OF DC			35000 1000 daN
WT. OF STRING			105000 1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	527
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	147
TOTAL HOURS RUN	86

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG 14000↑ 10000↓
TORQUE AT BOTTOM 11000 - 13000
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	9:30	12:00	15:00
DENSITY kg/m³	1445	1455	1460
FUNNEL VIS. - (S/L)	80	80	82
W.L. (cm³)	11.4	12.2	12.3
pH	10.0	10.0	10.4
PVT m³	115.1	114.3	116.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Biocide	1 pail
Corinox	2 pails
Sod Sul	3 sx
Bit Sul	28 sx
Lime	4 sx
Lignite	4 sx
Desco	1 sx
Barite	66 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1460	1210	2310

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1310	1140	1980

Stripping Out Hole

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
3	1140	1070	1650

METRES DRILLED

FROM	TO	DRLG HRS CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2712	2726	14	35/60	9/31
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	80	152	80

REDUCED PUMP SPEED

8100 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2702.6	0.4	46.6
2711.7	0.1	53.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:45	2¾	2	Drill F/2712m-2717m ↙ROTATE
10:45	11:00	¼	10	Survey @ 2702.6m
11:00	15:30	4½	2	Drill F/2717m-2726m ↙ROTATE
15:30	15:45	¼	7	R/S Function Remote choke, √BSPP
15:45	16:00	¼	10	Survey @ 2711.7m

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			125000 DAN		5375 KPA

DAY TOUR

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		RON SWISCOSKI	12		RS
MOTORMAN		Wendell Bettheil	12		WB
FLOORMAN		Lars Asak	12		LA
FLOORMAN		Larry STAWnichy	12		LS
LEASEMAN		DuFord Kotchea	12		DK
Lease		Jason Mouye	12		
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
	BIT		.30 m
1	MFR		7.91 m
1	Monel		9.31 m
1	Trans sub		1.40 m
1	Float sub		0.61 m
1	Shock sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
	BHA		248.73 m
87	D.P.	STANDS	2497.20 m
	D.P.	SINGLES	m
Stickup	KELLY DOWN		4.43 m
	TOTAL		2741 m
WT. OF DC			35000 1000 daN
WT. OF STRING			105000 1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	527
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	162
TOTAL HOURS RUN	93¾

CUTTING STRUCTURE: T, T₀, MDC, LOC, B, Gage, ODC, Reason Pulled, Total Run m/hr.

HOLE CONDITION

HOLE DRAG 15000↑ 13000↓
TORQUE AT BOTTOM 11000 - 13000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	18:00	20:30	23:30
DENSITY kg/m³	1460	1460	1460
FUNNEL VIS. - (S/L)	82	79	85
W.L. (cm³)	12.2	11.8	12.0
pH	10.5	10.5	10.5
PVT m³	113.9	114.9	117.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
H2O	5.9 m³
Mud Treating Volume	10 m³
DESCO	2 sxs
LIGNITE	2 sxs
StarpaK	2 sxs
DeskpAK	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG HRS CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2726	2741	15	35	9/31
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	80	152	80

REDUCED PUMP SPEED

8000 @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2721.4	0.2	18.7

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	21:15	5¼	2	Drill F/2736m-2736.4m ↙Rotate
21:15	21:30	¼	10	Survey @ 2721.4m
21:30	24:00	2½	2	Drill F/2736.4-2741m ↙Rotate

NOTES √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			125000		5375

EVENING TOUR

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Jerry Foley	4		JF
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Gerald Gilbert	4		GG
LEASEMAN		Lawrence Loreen	4		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118131

LICENCE NO.:	WELL NAME AND NO.:
1863	CDN Forest Etal Flett N-61
OPERATOR:	CONTRACTOR:
Canadian Forest Oil	AKita Drilling LTD.
SURFACE LOCATION:	UNIQUE ID.:
N61-60H0-07330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:
	Dave Lauck

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Block Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flexibles & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	07	26

REG. NO. 58

FUEL @ 8:00

RIG	BOILER
146	

WEATHER

TEMPERATURE °C	CURRENT CONDITIONS	WIND DIRECTION	ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	228	295.5	D.C.	71	228	5½ FH	35			
2	178	294.8	D.C.	58	178	5½ FH	10	F-1000	Emsco	354
3	127	74.8	H.W.	74	165	4½ FH	10	F-1000	Emsco	354
↓		38.02	E3	108	↓	↓	138			

REVISED MARCH 1996

118131

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N-61	99	07	26
OPERATOR: Canadian Forest Oil	CONTRACTOR: AKita Drilling LTD.		
RIG MANAGER: Dave Lauck		RIG NO. 58	
PROVINCE: N.W.T.	CAMP ☑ YES ☐ NO	RIG SAFETY DAYS 1093	

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	SAFETY MTG.	21	22	23	24	25	26
1	MORN.		7¼					1/4			1/2																
2	DAY		7¾								1/4																
3	EVE.		7¼					1/4			1/2																
4	TOTAL		22¼					1/2			1¼																

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	HTR	#30	7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float Sub		1.81 m
1	Shock		3.85 m
3	228 D.C.		27.20 m
1	SUR		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	248.73 m
84	D.P.	STANDS	m
XX	D.P.	SINGLES	2431.09 m
STICKUP	KELLY DOWN		7.82 m
	TOTAL		2672 m
WT. OF DC	35000		1000 daN
WT. OF STRING	103000		1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	527
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	93
TOTAL HOURS RUN	56¼

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	OOC	Reason Pulled	Total Run m/hr.
								1.65

HOLE CONDITION

HOLE DRAG 17000 ↑ 13000 ↓
TORQUE AT BOTTOM 9000 - 12 11500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	01:30	05:00	06:30
DENSITY kg/m³	1430	1455	1450
FUNNEL VIS. - (S/L)	85	88	87
W.L. (cm³)	11.0	10.3	10.4
pH	10.5	10.5	10.5
PVT m³	118.8	120.7	121.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sod. Sulf.	1 sx
Gypsum	2 sx
Lignite	4 sx
DESCO	2 sx
FRESH H₂O	2.5 m³
Stripped H₂O	2.4 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRG. HR. CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2659	2672	13	35+ 55 HTR 75	29 31

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	80	152	80

REDUCED PUMP SPEED

7400 @ @ 60

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2645.6	0.1	346.4
2652.2	0.3	52.2

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:45	¾	3	Drill F/2659 - 2660.6m ≤Rotate
00:45	01:00	¼	10	Survey @ 2645.6m
01:00	06:15	5¼	3	Drill F/2660.6 - 2670.2 ≤Rotate
06:15	06:30	¼	7	R/S Function Top pipe 8sec
06:30	06:45	¼	10	Survey @ 2652.2m
06:45	08:00	1¼	3	Drill F/2670.2 - 2672m ≤Rotate

NOTES ✓Crown Saver, deadline anchor, fast line clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			120000		5348

SHALE SHAKER(S) / RENTALS/SERVICES

NO.	TYPE	RENTALS/SERVICES
8	Derrick	TMT 1215
8	SCREENS CHANGED ☑ YES ☐ NO	AMT 90109
8	TOP 175	TOP 210
8	MIDDLE 175	MIDDLE 175
24	BOTTOM 175	BOTTOM 175
		Acc 0.1 40

MORN. / DAY / EVE.

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Jerry Foley	8		JF
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Gerald Gilbert	8		GG
LEASEMAN		Lawrence Loreen	8		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	HTR	#30	7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float Sub		1.81 m
1	Shock		3.85 m
3	228 DC		27.20 m
1	SUR		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA:	248.73 m
85	D.P.	STANDS	2440.73 m
	D.P.	SINGLES	m
STICKUP	KELLY DOWN		3.26 m
	TOTAL		2688.20 m
WT. OF DC	35000		1000 daN
WT. OF STRING	103000		1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	527
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	107
TOTAL HOURS RUN	64

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	OOC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG 17000 ↑ 11000 ↓
TORQUE AT BOTTOM 10000 - 12000 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	8:30	11:30	15:00
DENSITY kg/m³	1450	1450	1455
FUNNEL VIS. - (S/L)	85	78	77
W.L. (cm³)	11.8	12.2	12.6
pH	10.0	10.2	10.4
PVT m³	119.9	114.0	116.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	2 pails
Sod Sulf	3 sx
Chemside	1 pail
Lignite	2 sx
Desco	1 sac
Lime	4 sx
Driscar	1 sac
Stardrill	2 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
3	1160	1030	1020

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1210	1160	1040
4	1455	1310	2200

METRES DRILLED

FROM	TO	DRG. HR. CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2672	2686	14	35+ HTR 70	29 31

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14900	152	80	152	80

REDUCED PUMP SPEED

7400 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2665	0.3	58.7

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	12:15	4¼	2	Drill F/2672m - 2680m ≤ROTATE
12:15	13:30	¼	10	Survey @ 2665.0 m
13:30	16:00	3½	2	Drill F/2680m - 2686m ≤ROTATE

NOTES ✓Crown Saver, Fastline Clamp, Deadline Anchor. Held Camp Fire dr.ll.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			120000 DAN	Pressure Testing with Water	5348 KPA

DAY TOUR

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Ron Swiscoski	12		RS
MOTORMAN		Wendell Bet The L	12		WB
FLOORMAN		Lars Asak	12		LA
FLOORMAN		Larry Stownichy	12		LS
LEASEMAN		DuFord Katchea	12		DK
Lease		Jason Mouye	12		JM
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	HTR	#30	7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float Sub		1.81 m
1	Shock		3.85 m
3	228 DC		27.20 m
1	SUR		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	248.73 m
85	D.P.	STANDS	m
XX	D.P.	SINGLES	2459.26 m
Stickup	KELLY DOWN		9.99 m
	TOTAL		2698 m
WT. OF DC	35000		1000 daN
WT. OF STRING	103000		1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	527
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	119
TOTAL HOURS RUN	71¼

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	OOC	Reason Pulled	Total Run m/hr.
								1.67

HOLE CONDITION

HOLE DRAG 17000 ↑ 11000 ↓
TORQUE AT BOTTOM 10000 - 11500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE	☑ WATER BASED	☐ OIL BASED	
TIME	19:00	23:00	
DENSITY kg/m³	1445	1450	
FUNNEL VIS. - (S/L)	90	84	
W.L. (cm³)	11.4	9.7	
pH	10.4	10.0	
PVT m³	116.6	119.4	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Pot. Sul.	24 sx
H₂O	5.8 m³
DESCO	1 sx
Lignite	2 sxs
Starpak	1 sx
Drispak	1 sx
LIME	2 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRG. HR. CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2686	2698	12	35+ HTR 70	29 31

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14900	152	80	152	80

REDUCED PUMP SPEED

7400 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2674.5	0.3	79.9
2683.5	0.4	42.9

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:45	1¾	2	Drill F/2686m - 2689.4m ≤Rotate
17:45	18:00	¼	7	R/S Function Annular 18 secs/s, ✓RSFP
18:00	18:15	¼	10	Survey @ 2674.5
18:15	23:45	5½	2	Drill F/2689.4m - 2698.5 ≤Rotate
23:45	24:00	¼	10	Survey @ 2683.5

NOTES ✓Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			120000		5348

EVENING TOUR

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Jerry Foley	4		JF
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Gerald Gilbert	4		GG
LEASEMAN		Lawrence Loreen	4		LL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118130

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD.

SURFACE LOCATION: N61° 60'40" - 123°30' | UNIQUE ID.: 300 - N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (once/crew/month) — Initial / Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/rig/month) — Initial / Initial
(3) Mast Inspection Before Raising or Lowering — Initial / Initial
(4) Crown Saver Checked — Initial / Initial
(5) Motor Kills checked — Initial / Initial

YEAR	MONTH	DAY
99	07	25

RIG NO.: 56

FUEL @ 8:00

RIG: .82 | BOILER:

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K-55	58	735.55	6.62	732.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203	203.9	E	76	254	6⅝ REG	9	F-1000	Emsco	356
178	174.8	E	78	178	5" HT40	25	F-1000	Emsco	356
127	74.3	11.4#	94	165	4½ IF	10	F-1000	Emsco	356
↓	74.02	E	108	↓	↓	306			
	203.9	E	106			138			

REVISED MARCH 1996

118130

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR: 99 | MONTH: 07 | DAY: 25

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO.: 56

PROVINCE: N.W.T | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS: 1091

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.		7½								¼											BOP Drill				
	DAY		7¼					¼			½															
	EVE.		7½					¼			¼															
	TOTAL		22¼					½			1										¼					

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO. 3	TYPE Derrick	TMJ 1033			
8	SCREENS CHANGED ☐ YES ☒ NO	AMT 89927			
6	TOP 110	TOP 175			
8	MIDDLE 175	MIDDLE			
24	BOTTOM 210	BOTTOM ↓			
		Acc. Oil 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1		30	7.91 m
1	monel		7.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock sub		3.85 m
3	228 D.C.		27.30 m
1	JAR		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		248.73 m
83	D.P.	STANDS	2383.19 m
—	D.P.	SINGLES	— m
stick up	KELLY DOWN		.72 m
	TOTAL		2631.20 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	103000	1000 daN	

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	52
TOTAL HOURS RUN	34¼

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	16000 ↑ 12000 ↓
TORQUE AT BOTTOM	9500 - 10500 NM
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED		
TIME	04:00	06:00
DENSITY kg/m³	1450	1450
FUNNEL VIS. - (S/L)	75	75
W.L. (cm³)	10.0	10.0
pH	10.0	10.0
PVT m³	114.9	115.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	1 pail
Sod. Sulf.	1 sx
Pot. Sulfite	28 sxs
LIME	3 sxs
H_2O	3.8 m³
PERCOL 778	1 sx
Transfer 7m³ to Lubadrex	

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1100	1030	1600

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
BARITE	1455	1320	2180
HS-CENT			
2	1230	1120	3090

MORNING TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2620	2631	11	35	29/31
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14600	152	80	152	80

REDUCED PUMP SPEED

6900 @ — @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2607.3	0.1	130.0

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	03:30	3½	2	Drill F/2620 - 2622.3 < Rotate
03:30	03:45	¼	22	BOP Drill Well secure 80 sec Ann 20 sec Choke 145 sec
03:45	03:00	¼	10	Survey @ 2607.3 m
03:00	08:00	5	2	Drill F/2622.3 - 2631.2 m < Rotate

NOTES: √ Crown Saver, deadline anchor, fastline clamp Held Safety meeting w/crew, Test Flare ignitors

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000	Pressure Testing	5348

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		✗
DERRICKMAN		Jerry Foley	8		✗
MOTORMAN		Kevin Vandenbrand	8		✗
FLOORMAN		Julien Sassie	8		✗
FLOORMAN		Gerald Gilbert	8		✗
LEASEMAN		Lawrence Loreen	8		✗
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	motor	30	7.91 m
1	monel		7.31 m
1	Trans sub		1.90 m
1	Float sub	81	.81 m
1	Shock sub		3.85 m
3	228 DC		27.30 m
1	JAR		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
	BHA =		248.73 m
83	D.P.	STANDS	2402.40 m
XX	D.P.	SINGLES	m
Stick up	KELLY DOWN		7.23 m
	TOTAL		2643.90 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	103000	1000 daN	

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	64
TOTAL HOURS RUN	41½

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	11000 ↑ 8000 ↓
TORQUE AT BOTTOM	10000 - 12000 Nm
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED		
TIME	9:30	12:00 — 15:00
DENSITY kg/m³	1450	1450 — 1455
FUNNEL VIS. - (S/L)	77	86 — 81
W.L. (cm³)	11.8	11.9 — 12.3
pH	10.2	10.5 — 10.2
PVT m³	114.5	117.0 — 114.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Chemside	1 pail
Corinox	2 pails
Sod. Sul	35 sx
Lignite	4 sx
Desco	2 sxs
Drispak	1 sxs
Slopak	2 sx
Lime	4 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2631	2643	12	35 — 55	29/31
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	80	152	80

REDUCED PUMP SPEED

7800 @ 2631 m @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2617.0	0.2	310.0
2626.4	0.1	313.7

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:15	¼	2	Drill F/2631.2 - 2631.4 m < Rotate
08:15	08:30	¼	7	RIS. Function Annular 18 sec c/s √ RSPP
08:30	09:00	½	2	Drill F/2631.4 m - 2632 m < ROTATE
09:00	09:15	¼	10	Survey @ 2617.0 m
09:15	14:45	5½	2	Drill F/2632 m - 2641.5 m < ROTATE
14:45	15:00	¼	10	Survey @ 2626.4 m
15.00	16:00	1	2	Drill F/2641.5 m - 2643.9 m < ROTATE

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor. Tested Flare ignitors, Held Watch dog meeting

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000 DAN	USING PIN SPINNER	5348 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	12		✗
DERRICKMAN		Ron Swiscoski	12		✗
MOTORMAN		Wendell Bethel	12		✗
FLOORMAN		Lars Asak	12		✗
FLOORMAN		Larry Stawnichy	12		✗
LEASEMAN		Duford Kotchea	12		✗
Lease		Jason Mouye	12		✗
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	motor	30	7.91 m
1	monel		7.31 m
1	Trans sub		1.90 m
1	Float sub	81	.81 m
1	Shock sub		3.85 m
3	228 DC		27.30 m
1	JAR		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
1	TBR		1.71 m
9	HW		81.94 m
1	TBR		1.65 m
	BHA =		248.73 m
84	D.P.	STANDS	2411.48 m
	D.P.	SINGLES	m
Stick up	KELLY DOWN		1.61 m
	TOTAL		2659 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	103000	1000 daN	

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	80
TOTAL HOURS RUN	49

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG	17000 ↑ 13000 ↓
TORQUE AT BOTTOM	10000 - 12500 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED		
TIME	19:00	20:30 — 23:00
DENSITY kg/m³	1455	1455 — 1450
FUNNEL VIS. - (S/L)	87	87 — 85
W.L. (cm³)	11.0	10.4 — 11.0
pH	10.5	10.5 — 10.0
PVT m³	115.3	116.3 — 117.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Pot. Sul.	30 sx
H_2O	6.4 m³
LIME	2 sxs
Desco	1 sx
Lignite	2 sxs
Pot. Sulfite	30 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
Processed 6 m³ Mud			

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1160	1060	2160
Barite Recovered			
2	1450		2430

EVENING TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2643	2659	16	35 — 55	29/31
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15200	152	80	152	80

REDUCED PUMP SPEED

8000 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2636.2	0.3	9.6

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	19:00	3	2	Drill F/2643.9 m - 2650.5 m < ROTATE
19:00	19:15	¼	7	RIS. Function Lower Pipe Rams 6 sec c/s.
19:15	19:30	¼	2	Drill F/2650.5 m - 2651.2 m < Rotate
19:30	19:45	¼	10	Survey @ 2636.2 m
19:45	24:00	4¼	2	Drill F/2651.2 - 2659 m < Rotate

NOTES: √ Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			135000		5348

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	4		✗
DERRICKMAN		Jerry Foley	4		✗
MOTORMAN		Kevin Vandenbrand	4		✗
FLOORMAN		Julien Sassie	4		✗
FLOORMAN		Gerald Gilbert	4		✗
LEASEMAN		Lawrence Loreen	4		✗
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118129

LICENCE NO.	WELL NAME AND NO.
1963	CDN Forest Etal Flett N-61
OPERATOR	CONTRACTOR
Canadian Forest Oil	AKita Drilling LTD.
SURFACE LOCATION	UNIQUE ID.
N61-6040-17330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE	SIGNATURE OF CONTRACTOR'S RIG MANAGER

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Slick Diagram Posted — Initial / Initial
(5) Flare Lines Slaked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (once/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/qtr/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	07	24

RIG NO. 58

FUEL @ 8:00

RIG 127 — BOILER

WEATHER

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K-55	58	735.55	6.62	732.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	178	179.8	DC	73	178	5" H90	35	F-1000	Emsco	254
2	127	73.8	HW	57	165	4½IF	10	F-1000	Emsco	254
3		29.80	E75	108			306			
4		30.51	E75	106			133			

REVISED MARCH 1996

118129

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APPROVAL PENDING

937

KB

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N61	99	07	24
OPERATOR	CONTRACTOR		
Canadian Forest Oil	AKita Drilling LTD.		
RIG MANAGER	RIG NO.		
Dave Lauck	58		
PROVINCE	CAMP ☒ YES ☐ NO	RIG SAFETY DAYS	
NWT		1090	

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			7½					¼			¼														
DAY			7½						¼		¼														
EVE.			7½					¼			¼														
TOTAL			22½					½	¼		¾														

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO.	TYPE				
2	Derrick	TMJ 810			
SCREENS CHANGED	☐ YES ☒ NO	AMT 89704			
TOP 110	TOP 175				
MIDDLE 75	MIDDLE *				
BOTTOM 210	BOTTOM	ACC Oil 40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 D.C.		27.30 m
1	Jar		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		248.73 m
82	D.P.	STANDS	m
X	D.P.	SINGLES	23'41.04 m
Stickup	KELLY DOWN		3.77 m
	TOTAL		3598 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	103000	1000 daN	

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	20
TOTAL HOURS RUN	11¾

CUTTING STRUCTURE: T | T_2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 16000↑ 12000↓
TORQUE AT BOTTOM 9500-10500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	00:30	03:00	06:30
DENSITY kg/m³	1475	1470	1470
FUNNEL VIS. - (S/L)	79	77	79
W.L. (cm³)	9.3	9.8	9.8
pH	10.2	10.0	10.0
PVT m³	115.6	116.0	116.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sod SulFe	1 sx
Gypsum	2 sxs
Pot sulph	28 sxs
Lime	3 sxs
Soda Ash	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
WATER			

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
4	1470	1250	2600
	H-S GEL		
4	1250	1150	2300

METRES DRILLED

FROM	TO	DRILLED RUN CORED	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2586	2593	13	35	25/30
2593	mtrk		70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14500	152	80	152	80

REDUCED PUMP SPEED

6600 @ @ 40

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2578.7	0.3	187.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
00:00	03:45	3¾	2
03:45	04:00	¼	7
04:00	04:15	¼	10
04:15	08:00	3¾	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill F/2586-2593.7m Rotate
R/S function Bot pipe. 8sec
Survey @ 2578.7m
Drill F/2593.7-2598m ↙Rotate

NOTES √Crown Saver, deadline anchor, fastline clamp
√Fire extinguishers

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000		5303

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	8			R
DERRICKMAN		Jerry Foley	8			JF
MOTORMAN		Kevin Vandenbrand	8			KV
FLOORMAN		Julien Sassie	8			JS
FLOORMAN		Gerald Gilbert	8			GG
LEASEMAN		Lawrence Loreen	8			LL
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		.30 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 D.C.		27.30 m
1	Jar		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		248.73 m
82	D.P.	STANDS	m
X	D.P.	SINGLES	2364.04 m
Stickup	KELLY DOWN		2.37 m
	TOTAL		2610.40 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	103000	1000 daN	

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	31
TOTAL HOURS RUN	19¼

CUTTING STRUCTURE: T | T_2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 18000↑ 10000↓
TORQUE AT BOTTOM 9500-10500 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	8:30	11:30	15:00
DENSITY kg/m³	1460	1460	1455
FUNNEL VIS. - (S/L)	92	87	89
W.L. (cm³)	12.3	12.4	12.5
pH	10.0	10.3	10.4
PVT m³	112.6	118.3	117.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	2 pails
Starpak	2 sx
Lime	3 sx
Pot Sulph	2 sx
Lignite	4 sx
Pipeoil	1 pail
Sod. Sul	2 sx
Drispak	1 sac

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1440	1030	1690

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1460	1200	2600
	H-S GEL		
2	1240	1140	2300

METRES DRILLED

FROM	TO	DRILLED RUN CORED	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2599	2610	11	35+ MTR	25/30
MTR			70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14800	152	80	152	80

REDUCED PUMP SPEED

7100 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2588.1	0.2	195.0

DRILLER SIGNATURE Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
08:00	10:15	2¼	2
10:15	10:30	¼	10
10:30	15:15	4¾	2
15:15	15:30	¼	8
15:30	16:00	½	½

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill F/2599m - 2603m ↙ROTATE
Survey @ 2588.1m
Drill F/2603m - 2609m ↙ROTATE
Work on Pump
Dr. ll F/2609m - 2610m ↙ROTATE
Pump #8 - Changed 1 Discharge valve and seat

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor
√Drawworks Bolts.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000 DAN		5275 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Gary Patrick	12			GP
DERRICKMAN		Ron Swiscoski	12			RS
MOTORMAN		Wendell Bethel	12			WB
FLOORMAN		Lars Asak	12			LA
FLOORMAN		Larry Stawnichy	12			LS
LEASEMAN		DuFord Kotchea	12			DK
Lease		Jason Mouye	12			M
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		.30 m
1	Monel		9.31 m
1	Trans sub		1.90 m
1	Float Sub		.81 m
1	Shock		3.85 m
3	228 D.C.		27.30 m
1	Jar		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
	BHA		248.73 m
83	D.P.	STANDS	2383.19 m
	D.P.	SINGLES	m
Stickup	KELLY DOWN		11.93 m
	TOTAL		2620 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	103000	1000 daN	

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	41
TOTAL HOURS RUN	26¾

CUTTING STRUCTURE: T | T_2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 18000↑ 10000↓
TORQUE AT BOTTOM 9500-10500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	20:30	22:30
DENSITY kg/m³	1450	1455	1455
FUNNEL VIS. - (S/L)	86	77	76
W.L. (cm³)	10.4	11.4	10.0
pH	10.0	9.5	10.5
PVT m³	119.4	119.8	119.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Desco	2 sx
Peroxide	1 sac
H2O	9 m³
Lime	2 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRILLED RUN CORED	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2610	2620	10	35+ MTR	30/31
MTR			70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14600	152	80	152	80

REDUCED PUMP SPEED

7100 @ 80 @ 2619m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2597.8	0.2	332.1

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.
16:00	17:45	1¾	2
17:45	18:00	¼	7
18:00	18:15	¼	2
18:15	18:30	¼	10
18:30	24:00	5½	2

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Drill F/2610m - 2612m ↙ROTATE
R/S, Function Upper pipe Rams, 6 sec cls. √RSTP
Drill F/2612m - 2612.8m ↙Rotate
Survey @ 2597.8m
Drill F/2612.8m - 2620m ↙ Rotate

NOTES √Crown Saver, deadline anchor, fast line clamp
Held Fire Drill in Camp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000		5275

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER		Ron Cadieux	4			RC
DERRICKMAN		Jerry Foley	4			JF
MOTORMAN		Kevin Vandenbrand	4			KV
FLOORMAN		Julien Sassie	4			JS
FLOORMAN		Gerald Gilbert	4			GG
LEASEMAN		Lawrence Loreen	4			LL
RIG WATCH						

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

118128

FOLD HERE →

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well Licensee & Slick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 07 | DAY 23

RIG NO. 58

FUEL @ 8:00

RIG .63 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	245	214.3	G-105	158	330	6⅝ H90	14	F-1000	Emsco	254
2	178	134.4	G-105	58	178	5" H90	35	F-1000	Emsco	254
3	127	75.8	H-40	75	165	4½ IF	10			
4		29.93	S-135	108			66			
5		32.51	E-75	106	1		138			

REVISED MARCH 1996

118128

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APPROVAL PENDING

937

K16

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR 99 | MONTH 07 | DAY 23

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1099

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT/SLIP DRILL LINE	10 DEV SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
MORN.					3½	5½	¼														1½	Gamma	Shuncle Tools	Top Drive		
DAY					2½	1¼			½												1½		2¼			
EVE.		4½			½	2			¼	¼										¼				½		
TOTAL		4½			11½	11	½		¾	¼										¼	3		2¼	½		

TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
8	NO. 2 TYPE Derrick		TMT 635			
8	SCREENS CHANGED ☐ YES ☒ NO		AMT 89529			
8	TOP 110	TOP 175				
8	MIDDLE 175	MIDDLE				
24	BOTTOM 310	BOTTOM ✓	ACC. OIL 42			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	shock		3.85 m
3	228 D.C.		27.20 m
1	Jar		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
3	H.W.		27.35 m
6	TBR		47.09 m
		GHA	347.09 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	21
SIZE (mm)	311.2
IADC CODE	517X
MFG.	Sec
TYPE	GS84F
SERIAL NO.	729282
JETS (mm)	3x15.9
DEPTH OUT (m)	2579
DEPTH IN (m)	2478
TOTAL METRES DRILLED (m)	101
TOTAL HOURS RUN	57

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
1	1	NO		-2	I	NO	PR	1.8

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME

DENSITY kg/m³

FUNNEL VIS. - (S/L)

W.L. (cm³)

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	140 SXS
LIGNITE	8 SXS
Drispak	1 SX
Starpak	2 SXS
BARITE	45 SXS
BARITE	60 SXS

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RSVR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14700	152	80	152	80

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:30	½	5	Circulate bottoms up / mix Barite
00:30			6	√Flow, P.O.H 5 STDS √Flow, P.O.H 15 STDS pump pill
	05:30	5		P.O.H 30 STDS √Flow Pump pill P.O.H TO 1690m
05:30	05:45	¼	7	Rig Service, Function Top Pipe 8sec
05:45	07:15	1½	22	Log Down MWD/Gamma F/1090-1130m
07:15	07:30	¼	5	Pump pill Flow√
07:30	08:00	½	6	P.O.H TO 935m
				P.O.H Tight Spot @ 1998m

NOTES √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
9			150000		5311

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		☒
DERRICKMAN		Jerry Foley	8		☒
MOTORMAN		Kevin Vandenbriand	8		☒
FLOORMAN		Julien Sassie	8		☒
FLOORMAN		Gerald Gilbert	8		☒
LEASEMAN		Lawrence Loreen	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	shock		3.85 m
3	228 D.C.		27.20 m
1	Jar		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	248.75 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	527
MFG.	HC
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME Trip Record

DENSITY kg/m³ press 17.29

FUNNEL VIS. - (S/L) Calc 15.19

W.L. (cm³) Diff 2.10

pH

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RSVR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2579				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE Gerry Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:30	1½	22	Log Down/Gamma F/935m-965m
09:30	11:30	2	6	Flow√, P.O.H, Flow-10 min @ HWDP, Out of Hole
11:30	13:45	2¼	23	Break off Bit, Inspect MWD and motor orient tool
13:45	14:00	¼	7	R/S Function Blind Rams 6 sec c/s, Flow√ 10min
14:00	15:30	1½	6	R.I.H. TO 745m, Flow√ 10 min
15:30	16:00	½	9	R.Slip & cut 20 m of Drill line
				Picked up 1 TBR - SN# Faster 10604 OD. 184mm
				Pump #2 - 1 suction strt + 2 suction valves chgd.

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					5311 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	12		☒
DERRICKMAN		RON SWISCOSKI	12		☒
MOTORMAN		Wendell Bethen	12		☒
FLOORMAN		Lars Asak	12		☒
FLOORMAN		Larry Stawnichy	12		☒
LEASEMAN		DuFord Kotchea	12		☒
Lease		Jason Mouye	12		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	shock		3.85 m
3	228 D.C.		27.20 m
1	Jar		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
1	TBR		1.71 m
9	H.W.		81.94 m
1	TBR		1.65 m
		BHA	248.75 m
81	D.P.	STANDS	2344.77 m
XX	D.P.	SINGLES	2344.96 m
Slick up	KELLY DOWN		7.69 m
	TOTAL		2586 m
WT. OF DC			35000 1000 daN
WT. OF STRING			102000 1000 daN

BIT RECORD

BIT NO.	22
SIZE (mm)	311.2
IADC CODE	527
MFG.	HC
TYPE	GT28
SERIAL NO.	L72CT
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2579
TOTAL METRES DRILLED (m)	7
TOTAL HOURS RUN	14¼

CUTTING STRUCTURE T	T₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
								11.65

HOLE CONDITION

HOLE DRAG 16000↑ 12000↓

TORQUE AT BOTTOM 8000 - 10500

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME 23:00

DENSITY kg/m³ 1475

FUNNEL VIS. - (S/L) 78

W.L. (cm³) 10.5

pH 10.4

PV 114.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 Pail
Sod. S.M.	15 X

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: BARITE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1475	1250	2600
	HS-Cent		
2	1250	1150	2300

METRES DRILLED

FROM	TO	DRLG RSVR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2579	2586	7	35	3/20
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14500	152	80	152	80

REDUCED PUMP SPEED 65/90 @ 40 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2569.3	0.1	157.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:15	¼	9	Slip & Cut Drill line.
16:15	16:45	½	24	Raise T-Bar on Torque Tube
16:45	17:00	¼	6	R.I.H. TO 780m Break Circ.
17:00	17:15	¼	20	Test M.W.D Tool.
17:15	18:15	1	6	R.I.H TO 1732m Flow√ 10 min
18:15	18:30	¼	5	Fill Pipe Break Circ.
18:30	19:15	¾	6	R.I.H F/1732-3565m
19:15	19:30	¼	5	Break circ & Wash F/2565-2579m
19:30	23:00	3½	2	Drill F/2579m-2584.3m < Rotate
23:00	23:15	¼	10	Survey @ 2569.3m
23:15	24:00	¾	2	Drill F/2584.3-2586m < Rotate

NOTES √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			130000		5311

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		☒
DERRICKMAN		Jerry Foley	4		☒
MOTORMAN		Kevin Vandenbrand	4		☒
FLOORMAN		Julien Sassie	4		☒
FLOORMAN		Gerald Gilbert	4		☒
LEASEMAN		Lawrence Loreen	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118127

LICENCE NO.:	WELL NAME AND NO.:
1863	CDN Forest Etal Flett N-61
OPERATOR:	CONTRACTOR:
Canadian Forest Oil	AKita Drilling LTD.
SURFACE LOCATION:	UNIQUE ID.:
NW-6040-12330	300-N61-60402
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:
[signature]	Dave Lauck

DAILY CHECKS — OPR. / R.M.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY
99	07	22

RIG NO. 58

FUEL @ 8:00

RIG 103 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203.2	203.5	D-C	76	244.5	6⅝ REG	25	F-1000	Emsco	254
178	174.8	D-C	58	177.8	5"H90	23			
127	99.9	H-90	74	165	4½IF	10	F-1000	Emsco	254
127	99.93	DPE3	108			306			
127	99.51	DPE3	106			138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			6¾			½		¼																	
DAY			7¼					¼	¼		¼														
EVE.			6¾			1					¼														
TOTAL			20¾			1½		½	¼		1														

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO. 3	TYPE Derrick	Acc MT 86948			
SCREENS CHANGED ☐ YES ☑ NO		Total MT 6457			
TOP 110	TOP 175				
MIDDLE 175	MIDDLE				
BOTTOM 210	BOTTOM	Acc'd: 1.42			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	mill		7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock sub		3.85 m
3	228 D.C.		27.30 m
1	Jar		5.77 m
5	238 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		247.08 m
81	D.P.	STANDS	2325.94 m
	D.P.	SINGLES	m
	Stick up KELLY DOWN		15.02 m
	TOTAL		2558.0 m

WT. OF DC 35000 1000 daN

WT. OF STRING 102000 1000 daN

BIT RECORD

BIT NO.	21
SIZE (mm)	311.2
IADC CODE	5 1 1 7 X
MFG.	Sec
TYPE	GS84F
SERIAL NO.	729282
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2478
TOTAL METRES DRILLED (m)	80
TOTAL HOURS RUN	43

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 150001 120002

TORQUE AT BOTTOM 8000 - 11000 NM

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	00:30	13:00	06:30
DENSITY kg/m³	1450	1450	1450
FUNNEL VIS. - (S/L)	79	76	75
W.L. (cm³)	10.3	10.5	10.6
pH	10.2	10.0	10.0
PVT m³	116.1	117.3	119.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sod. Sulfite	1 sx
Chemicide	1 pail
Pot. Sulph.	30 sxs
H2O	3.8 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
	1450	1260	1335
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2544	2558	14	35 RMR 70	24/26

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14400	152	80	152	80

REDUCED PUMP SPEED

6600 @ @ 80

6900

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2529.8	0.5	162.8
2539.4	0.4	146.5

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	¼	10	Survey @ 2529.8m
00:15	05:15	5	2	Drill F/2544m - 2554m ↙Rotate
05:15	05:30	¼	7	Rig Service, function Bot pipe 8sec
05:30	05:45	¼	10	Survey @ 2539.4m
05:45	07:00	1¼	2	Drill F/2554.4m - 2557.2m ↙ROTATE
07:00	07:30	½	5	Circulate
07:30	08:00	½	2	Drill F/2557.2m - 2558.0m ↙ROTATE

NOTES √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			117000		5348

REVISED MARCH 1996

118127

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CAODC

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APPROVAL PENDING

937

K16

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N61	99	07	22
OPERATOR: Canadian Forest Oil	CONTRACTOR: AKita Drilling LTD.		
RIG MANAGER: Dave Lauck	RIG NO. 58		
PROVINCE: N.W.T	CAMP ☑ YES ☐ NO	RIG SAFETY DAYS: 1088	

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER	[redacted]	Ron Cadieux	8			RC
DERRICKMAN		Jerry Foley	8			JF
MOTORMAN		Kevin Vandenbrand	8			KV
FLOORMAN		Julien Sassie	8			JS
FLOORMAN		Gerald Gilbert	8			GG
LEASEMAN		Lawrence Loreen	8			LL
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2558	2570	12	35+ MTR 70	24/26

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14200	152	80	152	80

REDUCED PUMP SPEED

6600 @ 2563m @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2548.9	0.3	186.5

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:15	3¼	2	Drill F/2558m - 2563.8m ↙ROTATE
11:15	11:30	¼	7	R/S Function Annular 18 sec c/s /RSPP.
11:30	11:45	¼	10	Survey @ 2548.9m
11:45	12:15	½	2	Drill F/2563.8m - 2564.8m ↙ROTATE
12:15	12:30	¼	8	Work on Pump
12:30	16:00	3½	2	Drill F/2564.8m - 2570.8m ↙ROTATE
				Pump #2 - Changed Emission seat & valve
				Changed oil in Drawworks

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor. Greased Crown and Blocks, √Flare igniters.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			120000 DAN	Crown SAFR Policy	5311 K.P.A

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER	[redacted]	Gary Patrick	12			GP
DERRICKMAN		Ron Swiscoski	12			RS
MOTORMAN		Wendell Bethel	12			WB
FLOORMAN		Lars Asak	12			LA
FLOORMAN		Larry Stawnichy	12			LS
LEASEMAN						
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2570	2579	9	35+ MTR 70	24/26

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
14600	152	80	152	80

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2558	0.3	143.0

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:30	1½	2	Drill F/2570.8m - 2573m ↙ROTATE
17:30	17:45	¼	10	Survey @ 2558.0m
17:45	23:00	5¼	2	Drill F/2573 - 2579.5m ↙Rotate.
23:00	24:00	1	5	Circulate bottoms up/Mix Barite

NOTES √Crown Saver, deadline anchor, fastline clamp. Held Safety Meeting w/crew

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0				Crown Saver	5311

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS		INJURIES YES	NO
DRILLER	[redacted]	Ron Cadieux	4			RC
DERRICKMAN		Jerry Foley	4			JF
MOTORMAN		Kevin Vandenbrand	4			KV
FLOORMAN		Julien Sassie	4			JS
FLOORMAN		Gerald Gilbert	4			GG
LEASEMAN		Lawrence Loreen	4			LL
RIG WATCH						

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	mill		7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock sub		3.85 m
3	228 D.C.		27.30 m
1	Jar		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		247.08 m
81	D.P.	STANDS	2325.94 m
	D.P.	SINGLES	m
	Stick up KELLY DOWN		2.22 m
	TOTAL		2570.80 m

WT. OF DC 35000 1000 daN

WT. OF STRING 108000 1000 daN

BIT RECORD

BIT NO.	21
SIZE (mm)	311.2
IADC CODE	5 1 1 7 X
MFG.	SEC
TYPE	GS84F
SERIAL NO.	729282
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2478
TOTAL METRES DRILLED (m)	92
TOTAL HOURS RUN	50¼

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 150001 120001

TORQUE AT BOTTOM 9000 - 11000 NM

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	8:00	10:30	15:00
DENSITY kg/m³	1450	1455	1455
FUNNEL VIS. - (S/L)	72	71	72
W.L. (cm³)	12.0	12.3	10.8
pH	10.0	10.0	10.0
PVT m³	117.4	113.5	114.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Gypsum	2 sx
Lime	3 sx
Starpac	1 sac
Drispac	1 sac

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1450	1260	3240
		Bit speed Motor 5x	
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1260	1040	1600

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	mill		7.91 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock sub		3.85 m
3	228 D.C.		27.30 m
1	Jar		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		247.08 m
81	D.P.	STANDS	m
xx	D.P.	SINGLES	2344.96 m
	Stick up KELLY DOWN		13.04 m
	TOTAL		2579 m

WT. OF DC 35000 1000 daN

WT. OF STRING 102000 1000 daN

BIT RECORD

BIT NO.	21
SIZE (mm)	311.2
IADC CODE	5 1 1 7 X
MFG.	Sec
TYPE	GS84F
SERIAL NO.	729282
JETS (mm)	3x15.9
DEPTH OUT (m)	2579
DEPTH IN (m)	2478
TOTAL METRES DRILLED (m)	101
TOTAL HOURS RUN	57

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1-8

HOLE CONDITION

HOLE DRAG 150001 120001

TORQUE AT BOTTOM 8000 - 11000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00		
DENSITY kg/m³	1455		
FUNNEL VIS. - (S/L)	72		
W.L. (cm³)	11.9		
pH	10.2		
PVT m³	114.7		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Chemicide	1 pail
Defoamer	1 pail
Corinox	1 pail
Sod. Sul	1 sac
Pot. Sul.	35 sx
H2O	5.8 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

FOLD HERE →

118126

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61 – 6040 – 12330 | UNIQUE ID.: 300 – N61 – 6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature] | SIGNATURE OF CONTRACTOR'S RIG MANAGER: [signature] Dave Lauck

DAILY CHECKS — OPR. Initial / R.M. Initial

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 07 | DAY 21 | RIG NO. 58

FUEL @ 8:00 — RIG 1.42 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	121.7	BTRC	K55	58	735.55	6.62	735.18
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	228	540.5	DC	76	228	7 5/8 REG	18			
	178	279.5	DC	55	178	4 1/2 IF	25	F-1000	EMSCO	254
	139	195	HW	76	165	4 1/2 IF	10			
	127	250.2	E2	108	145	4 1/2 IF	106	F-1000	EMSCO	254
	127	303.1	E3	106	165	5 1/2 FH	178			

TIME-HRS

CODE NO.	OPER.	1 TRIP UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	SAFETY MTG.	21	22	23	24	25	26
	MORN.		7 3/4								1/4																
	DAY		7 1/4					1/4			1/2																
	EVE.		7 1/4					1/4			1/4											1/4					
	TOTAL		22 1/4					1/2			1											1/4					

TOTALS

SHALE SHAKER(S): NO. 2 | TYPE Derrick | SCREENS CHANGED ☑ YES ☐ NO | TOP 110 | MIDDLE 175 | BOTTOM 175

RENTALS/SERVICES: TMS $6,699 | AMJ 6204 | Aaun Oil 42

	MORN.	DAY	EVE.
8			
8			
8			
24			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	BIT	30	0.30
1	MOTOR		7.91
1	MONEL		9.31
1	TRANS SUB		1.90
1	FLOAT SUB		.81
1	SHOCK SUB		3.85
3	228 DC		27.20
1	JARS		5.77
5	228 DC		46.31
1	X/O		1.37
6	178 DC		57.29
1	X/O		1.41
3	HWDP		27.32
1	TBR		1.71
6	HWDP		54.69
	BHA =		247.06
79	D.P.	STANDS	2269.49
	D.P.	SINGLES	m
	KELLY DOWN		1.57
	TOTAL		2515
WT. OF DC			35000 1000 daN
WT. OF STRING			101000 1000 daN

BIT RECORD

BIT NO.	21
SIZE (mm)	311.2
IADC CODE	5 1 7 X
MFG.	SECURITY
TYPE	GS84F
SERIAL NO.	729282
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2478
TOTAL METRES DRILLED (m)	37
TOTAL HOURS RUN	21 3/4

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8000 up · 11000 DN
TORQUE AT BOTTOM 8000 – 11000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED			
TIME	02:00	09:42	06:00
DENSITY kg/m³	1455	1455	1450
FUNNEL VIS. - (S/L)	74	77	76
W.L. (cm³)	10.5	10.2	10.0
pH	10.0	10.5	10.5
PVT m³	121.2	122.0	123.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	1 Pail
Soda Ash	1 SX
Viscosifier	1 SX
Lime	1 SX
Starpak	2 SXS
Pipe Lax	1 SX
Poly-Plus	2 SXS
Lignite	2 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)
2	1245	1150	1445
2	1451	1245	1444

METRES DRILLED

FROM	TO	DRLG HRS CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2500	2515	15	35+ MTR 70	24/26

CIRCULATION PRESSURE (kPa) 14300 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M. 80

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2491.9	0.9	202.8

DRILLER SIGNATURE: [signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	03:15	3 1/4	2	Drill 2500m – 2506m < Rotate
03:15	03:30	1/4	10	Survey @ 2491.9m
03:30	06:00	2 1/2	2	Drill 2506m – 2515m < Rotate

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
			115000 DAN		

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	BIT	30	0.30
1	MOTOR		7.91
1	MONEL		9.31
1	TRANS SUB		1.90
1	FLOAT SUB		.81
1	SHOCK SUB		3.85
3	228 DC		27.20
1	JARS		5.77
5	228 DC		46.31
1	X/O		1.37
6	178 DC		57.29
1	X/O		1.41
3	HW		27.32
1	TBR		1.71
6	HW.		54.69
	BHA =		247.06
79	D.P.	STANDS	2268.24
xx	D.P.	SINGLES	1.8
	KELLY DOWN		5.36
	TOTAL		2530
WT. OF DC			35000 1000 daN
WT. OF STRING			101000 1000 daN

BIT RECORD

BIT NO.	21
SIZE (mm)	311.2
IADC CODE	5 1 7 X
MFG.	Sec.
TYPE	GS84F
SERIAL NO.	729282
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2478
TOTAL METRES DRILLED (m)	52
TOTAL HOURS RUN	29

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 140000↑ 120000↓
TORQUE AT BOTTOM 8000 · 11000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED			
TIME	08:00	11:00	14:00
DENSITY kg/m³	1450	1450	1455
FUNNEL VIS. - (S/L)	75	76	75
W.L. (cm³)	10.2	11.3	11.9
pH	10.5	10.5	10.5
PVT m³	123.9	125.0	116.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Coring	1 pail
Soda Ash	1 SX
Poly Sulfo	30 SXS
Chemcide	1 pail
H₂O	3.8 m³

Thunder 10m³ to Underco FOR Bit Trip Recovery

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

METRES DRILLED

FROM	TO	DRLG HRS CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2515	2530	15	35 MTR 70	23/26

CIRCULATION PRESSURE (kPa) 14600 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M. 80

REDUCED PUMP SPEED

6400 @ 80 | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2501.6	0.8	188.9
2511.3	0.6	180.3

DRILLER SIGNATURE: [signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:30	1/2	2	Drill F/2515 – 2516.6 < Rotate
08:30	08:45	1/4	7	R/S Function Ann 20 sec
08:45	09:00	1/4	10	Survey @ 2501.6
09:00	14:00	5	2	Drill F/2516.6 – 2526.3 < Rotate
14:00	14:15	1/4	10	Survey @ 2511.3m
14:15	16:00	1 3/4	2	Drill F/2526.3 – 2530m < Rotate

NOTES: √ Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			115000		53488

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	BIT	30	0.30
1	MOTOR		7.91
1	MONEL		9.31
1	TRANS SUB		1.90
1	FLOAT SUB		.81
1	SHOCK SUB		3.85
3	228 DC		27.20
1	JAR		5.77
5	228 DC		46.31
1	X/O		1.37
6	178 DC		57.29
1	X/O		1.41
3	H.W.		27.32
6	TBR		1.71
	H.W.		54.69
	BHA =		247.06
80	D.P.	STANDS	2282.94
X	D.P.	SINGLES	20.34
	KELLY DOWN		10.43
	TOTAL		2544
WT. OF DC			35000 1000 daN
WT. OF STRING			103000 1000 daN

BIT RECORD

BIT NO.	21
SIZE (mm)	311.2
IADC CODE	5 1 7 X
MFG.	Sec.
TYPE	GS84F
SERIAL NO.	729282
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2478
TOTAL METRES DRILLED (m)	66
TOTAL HOURS RUN	36 1/4

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 18000 ↑ 14000 ↓
TORQUE AT BOTTOM 9000 – 11000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	16:00	20:00	22:30
DENSITY kg/m³	1450	1450	1450
FUNNEL VIS. - (S/L)	73	72	71
W.L. (cm³)	11.7	13.7	13.0
pH	10.2	10.4	10.2
PVT	118.8	114.7	115.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lignite	2 SX
Desco	1 SAC
Barite	3 SX
Starpak	2 SX
DrisPak	1 SAC
Lime	2 SX
H₂O	3.4 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m)	OVERFLOW DENSITY (kg/m)	UNDERFLOW DENSITY (kg/m)

METRES DRILLED

FROM	TO	DRLG HRS CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2530	2544	14	35+ MTR 70	24/26

CIRCULATION PRESSURE (kPa) 14400 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M. 80

REDUCED PUMP SPEED

6600 @ 80 | @ 6314

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2520.4	0.4	171.6

DRILLER SIGNATURE: [signature]

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	18:30	2 1/2	2	Drill F/2530m – 2534 m. < Rotate
18:30	18:45	1/4	21	B.O.P. Drill Well Secure Lain
18:45	19:00	1/4	7	R/S Function Top Pipe Rams 6 Sec c/s √ BSTP
19:00	19:30	1/2	2	Drill F/2534m – 2535m < ROTATE
19:30	19:45	1/4	10	Survey @ 2520.4m
19:45	24:00	4 1/4	2	Drill F/2535m – 2544m

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			121000 DAN	BOP Drill	

REVISED MARCH 1996

118126

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APPROVAL PENDING

937

DRILLING CREW PAYROLL DATA

K16

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 07 | DAY 21

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Sam Lauck / Dave Lauck | RIG NO. 58

PROVINCE: N W T | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1087

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		ALLAN LICKOCH	8		☒
DERRICKMAN		NED MELNYK	8		☒
MOTORMAN		MIKE GUERIN	8		☒
FLOORMAN		WAYNE CHRETIENS	8		☒
FLOORMAN		ADAM MURRAY	8		☒
LEASEMAN		MOISE PUNCH	8		☒
LEASE		JOE RODH	8		JR
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR 08:00 TO 16:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Jerry Foley	8		JF
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Gerald Gilbert	8		GG
LEASEMAN		Lawrence Lorren	8		LL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR 16:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary PATRICK	8		GP
DERRICKMAN		Ron SWISCOSKI	8		RS
MOTORMAN		Wendell BETTHEL	8		WB
FLOORMAN		Lars ASAK	8		LA
FLOORMAN		Larry STAWNICHY	8		LS
LEASEMAN					
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

1863

June 21. Aug 2/99

Rec'd Aug 9/99

FOLD HERE →

118125

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: A Mcmurray Rogerson | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Ken Court

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOPs - Parelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR: 99 | MONTH: 07 | DAY: 20
RIG NO.: 58
FUEL @ 8:00
RIG: 1.85 | BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	313.3	101.2	BTEC	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228	295.3	DC	77	203	4½ IF	15			
178	174.3	DC	57	178	4½ IF	10	F-1000	Emsco	254
127	74.3	HW	50	165	4½ IF	106	F-1000	Emsco	254
127	50.68	E2	108	165	4½ IF	9			
127	30.51	E3	116	165	4½ IF	138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.							5¾	¼													¼	Handle Tools				
DAY			6¼				¼	1	¼		¼											¾				
EVE.			7¼								¼															
TOTAL			14				¼	1¾	½		½										¼	¾				

TOTALS

SHALE SHAKER(S)

No. 2 TYPE: Derrick
SCREENS CHANGED ☒ YES ☐ NO

	TOP	TOP
8	110	175
8	MIDDLE 175	MIDDLE 175
24	BOTTOM 175	BOTTOM 175

RENTALS/SERVICES

	MORN	DAY	EVE
TMS 86523			
AMJ 6028			
Accum Oil 142			

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APPROVAL PENDING

118125

FAX / RIG MANAGER

JUL 21 1999

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR: 99 | MONTH: 07 | DAY: 20
OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD
RIG MANAGER: Ken Court | RIG NO.: 58
PROVINCE: NWT | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1086

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	MTR		7.91
1	Monel		9.31
1	Trans sub		1.90
1	Float sub		.81
1	Shock sub		3.85
3	228 DC		27.20
1	Jars		5.77
5	228 D.C.		46.31
6	XO		1.37
1	FTB DC		57.29
1	XO		1.41
3	H.W.		27.32
1	TBR		1.71
6	H.W.		54.62
	BHA		247.08
78	D.P.	STANDS	2250.09
X	D.P.	SINGLES	
Stick up	KELLYDOWN		9.27
	TOTAL		2488
WT. OF DC	35000	1000 daN	
WT. OF STRING	101000	1000 daN	

BIT RECORD

BIT NO.	21
SIZE (mm)	311.2
IADC CODE	5 1 7 X
MFG.	Sec.
TYPE	G584F
SERIAL NO.	729282
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2478
TOTAL METRES DRILLED (m)	10
TOTAL HOURS RUN	6¼

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 140000↑ 130000↓
TORQUE AT BOTTOM: 8000-10000 NM
FILL ON BOTTOM (m): Nil

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TRIP RECORD
Cal = 14.41 m³
Mea = 16.17 m³
Diff = 1.36 m³

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Gypsum	5 5x5
Pot Ash	30 5x5 SULFATE
Sod Sulfite	1 5x
Coriwox	1 pail
Premix	1.0 m³
H2O	4.8 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2478				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED: @ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
STRAP	D.P. = 2249.48	
TALLY	D.P. = 2250.19	
	DIFF = -.71	

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	02:30	2½	6	POOH Flow✓ @ HW & out of Hole
02:30	02:45	¼	7	R/S Flow✓ Function Blind Rams 7sec
02:45			22	Break Bit & Make up New Bit #21
	03:30	¾		Set Motor to 1.5° & Scrib MWD Tool
03:30	05:30	2	6	R.I.H. to 771m Flow✓ Strap IN
05:30	05:45	¼	20	Test MWD Tool
05:45	08:00	2¼	6	R.I.H. TO 1808 ✓Flow. break circ.

#1 Pump: Replace discharge seat, new discharge valve, suction valve retainer, liner cap gasket
#2 Pump: Replace suction valve, suction valve retainer

NOTES: ✓ Crown Saver, fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	8		NO
DERRICKMAN		Ned Melnyk	8		NO
MOTORMAN		Mike Guerin	8		NO
FLOORMAN		Wayne Chretien	8		NO
FLOORMAN		Adam Murray	8		NO
LEASEMAN		Moise Punch	8		NO
		Joe Rodh	8		NO
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2478	2488	10	35	7/25
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 14200	152	80	152	80

REDUCED PUMP SPEED: Choke 6100 manifold 6300 | @ 80 | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2472.6	0.9	182.6

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00			6	R.I.H F/1808 - 2354m break circ, R.I.H
	09:00	1		F/2354 - 2468m
09:00	09:15	¼	5	Break circ, Wash F/2468 - 2478m No Fill
09:15	15:15	6	2	Drill F/2478 - 2487.6m ↙ Rotate
15:15	15:30	¼	10	Survey @ 2472.6m
15:30	15:45	¼	7	R/S Function Bot pipe 8secs
15:45	16:00	¼	2	Drill F/2487.6 - 2488m ↙ Rotate

NOTES: ✓ Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			120000		5275

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	12		RC
DERRICKMAN		Jerry Foley	12		JF
MOTORMAN		Kevin Vandenbrand	12		KV
FLOORMAN		Julien Sassie	12		JS
FLOORMAN		Gerald Gilbert	12		GG
LEASEMAN		Lawrence Loreen	12		LL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

METRES DRILLED

FROM	TO	DR'D RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2488	2500	12	35	7/25
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 14200	152	80	152	80

REDUCED PUMP SPEED: 6200 | @ 80 | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2492.3	1.0	196.5

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	21:30	5½	2	Drill F/2488 - 2497m ↙ ROTATE
21:30	21:45	¼	10	Survey @ 2492.3
21:45	24:00	2¼	2	Drill 2497.3m - 2500m ↙ Slide 3m

NOTES: ✓ Crown Saver, fastline clamp, Deadline Anchor

118125

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			120,920 Dam		5310 Kpa

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	4		NO
DERRICKMAN		Ned Melnyk	4		NO
MOTORMAN		Mike Guerin	4		NO
FLOORMAN		Wayne Chretien	4		NO
FLOORMAN		Adam Murray	4		NO
LEASEMAN		Moise Punch	4		NO
		Joe Rodh	4		NO
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118124

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-112330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: J. Murray Harrison | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Shaylon Lt

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Main Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 97 | MONTH 07 | DAY 19 | RIG NO. 58

FUEL @ 8:00 — RIG 78 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	313.3	101.2	BTC	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
229	255.3	DC	71	273	PH10	19			
177	134.8	DC	53	178	5½FH	25	F-1000	Emsco	254
177	148	HW	76	178	5½IF	10			
177	85.02	S2	108	165	4½IF	264	F-1000	Emsco	254
127	30.51	S2	166	165	4½	139			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	SAFETY MTG.	22	23	24	25	26
OPER.																										
MORN.		7½					¼			¼																
DAY		7¾								¼																
EVE.					2	4½	¼			¼																
TOTAL		16¼			2	4½	½			¾																

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO. 2	TYPE Derrick	Tmr 85079			
SCREENS CHANGED ☐ YES ☒ NO		Amj 4586			
TOP 110	TOP 175				
MIDDLE 175	MIDDLE 175				
BOTTOM 175	BOTTOM 110	Acuum Oil-42			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.30 m
1	MOTOR		7.91 m
1	MONEL		9.31 m
1	TRANS SUB		1.90 m
1	FLOAT SUB		.81 m
1	SHOCK SUB		3.85 m
3	228 DC		27.90 m
1	JARS		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.49 m
1	X/O		1.41 m
3	HWDP		27.32 m
1	TBR		1.71 m
6	HWDP		54.62 m
		BHA	247.08 m
77	D.P.	STANDS	m
XX	D.P.	SINGLES	2930.91 m
STICK UP KELLY DOWN			11.99 m
	TOTAL		2466 m
WT. OF DC			35000 1000 daN
WT. OF STRING			99000 1000 daN

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3 X 15.9
DEPTH OUT (m)	
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	44
TOTAL HOURS RUN	31¼

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8000 ↑ 10000 ↓
TORQUE AT BOTTOM 7500 - 8500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1480	1455	1455
FUNNEL VIS. - (S/L)	76	76	74
W.L. (cm³)	11.8	11.2	11.0
pH	10.7	10.6	10.5
PVT m³	115.9	116.4	116.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
STARPAK	2 SXS
DRISPAC	1 SX
LIG	3 SXS
Potash	30 SXS
Lime	1 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	IADC BEAR. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2456	2466	10	35	25/85
			MTR 90	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
choke				
14800	158	93	158	93

REDUCED PUMP SPEED

choke 4900 @ | @ 83

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2444.0	0.4	31.8

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:30	1½	2	Drill 2456m - 2458.3m ∠Rotate
01:30	01:45	¼	7	R/S Function Annular 22sec
01:45	02:15	½	2	Drill 2458.3m - 2459m ∠Rotate
02:15	02:30	¼	10	Survey @ 2444.0m
02:30	08:00	5½	2	Drill 2459m - 2466m ∠Rotate

NOTES: ✓crown Saver, Gattlic Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
5			125000 Dan		5310

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	BIT		.30 m
1	MTR.		7.91 m
1	MONEL		9.31 m
1	TRANS SUB		1.90 m
1	FLOAT SUB		.81 m
1	SHOCK SUB		3.85 m
3	228 DC		27.90 m
1	JARS		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	247.08 m
77	D.P.	STANDS	m
XX	D.P.	SINGLES	2330.91 m
STICK UP KELLY DOWN			.99 m
	TOTAL		2477 m
WT. OF DC			35000 1000 daN
WT. OF STRING			99000 1000 daN

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3x15.9
DEPTH OUT (m)	2422
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	55
TOTAL HOURS RUN	39½

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000 ↑ 12000 ↓
TORQUE AT BOTTOM 8000 - 12000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	08:00	11:30	15:30
DENSITY kg/m³	1455	1450	1450
FUNNEL VIS. - (S/L)	72	68	73
W.L. (cm³)	10.4	11.0	11.05
pH	10.5	10.5	10.4
PVT m³	116.9	116.7	120.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Premix	2.2 m³
BARITE	116 SXS
H2O	7.2 m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	IADC BEAR. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2466	2477	11	35	25/84

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
choke				
14800	152	83	152	83

REDUCED PUMP SPEED

choke 6300 @ 83 | @
manifold 6500

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2453.7	0.4	156.4

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:15	1¼	2	Drill F/2466 - 2468.7 ∠Rotate
09:15	09:30	¼	10	Survey @ 2453.7m
09:30	16:00	6½	2	Drill F/2468.7 - 2477m ∠ Rotate
				Change Head & liner #2 pump

NOTES: ✓Crown Saver, deadline anchor, fastline clamp
Grease Crown & Blocks

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			125000		5310

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		7.91 m
1	MONEL		9.31 m
1	TRANS SUB		1.90 m
1	FLOAT SUB		.81 m
1	SHOCK SUB		3.85 m
3	228 DC		27.90 m
1	JARS		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
		BHA	247.08 m
79	D.P.	STANDS	m
X	D.P.	SINGLES	2950.19 m
STICK UP KELLY DOWN			m
	TOTAL		2478 m
WT. OF DC			35000 1000 daN
WT. OF STRING			99000 1000 daN

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3x15.9
DEPTH OUT (m)	2478
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	56
TOTAL HOURS RUN	40½

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled TQ | Total Run m/hr. 11.4

HOLE CONDITION

HOLE DRAG 10000 ↑ 12000 ↓
TORQUE AT BOTTOM 8000 - 12000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	19:00	
DENSITY kg/m³	1450	1450	
FUNNEL VIS. - (S/L)	71	70	
W.L. (cm³)	10.5		
pH	10.4		
PVT m³	121.3		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	125 SXS

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	IADC BEAR. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2477	2478	1	35	25/86
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
choke				
14100	152	80	152	80

REDUCED PUMP SPEED

choke 6000 @ | @ 80
manifold 6200

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2463	0.8	185.1

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:15	¼	7	Rig Service, function Top pipe 8sec
16:15	16:45	½	2	Drill F/2477 - 2478m ∠Rotate
16:45	17:00	¼	10	Survey @ 2463m
17:00	17:30	½	2	Drill F/2478 - 2478.8 ∠ Rotate
17:30	19:30	2	5	Circulate Bottoms up Condition mud
19:30	21:00	1½	6	Flow Pooh 12 stds flow Pump pill
21:00	24:00	3	6	Pooh Flow @ 40 stds.

NOTES: ✓CROWN SAVER, FASTLINE CLAMP, DEADLINE ANCHOR

118124

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

REVISED MARCH 1996

118124

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APPROVAL PENDING

FAX / RIG MANAGER

JUL 21 1999

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest et al Flett N-61	99	07	19

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Shaylon Lt | RIG NO. 58

PROVINCE N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1085

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	8		☒
DERRICKMAN		Ned McInyk	8		☒
MOTORMAN		Mike Guerin	8		☒
FLOORMAN		Wayne Chretien	8		☒
FLOORMAN		Adam Murray	8		☒
LEASEMAN		Maise Punch	8		☒
Lease		Joe Roth	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	12		☒
DERRICKMAN		Jerry Foley	12		☒
MOTORMAN		Kevin Vandenbrand	12		☒
FLOORMAN		Julien Sassie	12		☒
FLOORMAN		Gerald Gilbert	12		☒
LEASEMAN		Lawtence Loreen	12		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	4		☒
DERRICKMAN		NED MELNIK	4		☒
MOTORMAN		MIKE GUERIN	4		☒
FLOORMAN		WAYNE CHRETIEN	4		☒
FLOORMAN		ADAM MURRAY	4		☒
LEASEMAN		MAISE PUNCH	4		☒
LEASE		JOE ROTH	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

118123

FOLD HERE →

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Murray Loveseth | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H2S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR 99 | MONTH 07 | DAY 18

RIG NO. 58

FUEL @ 8:00

RIG 1.26 BOILER

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	244.5	455.0	DC	158	336	6 5/8 REG	18			
2	178	174.8	DC	68	178	6 5/8 REG	36	F-1000	Emsco	254
3	127	74.3	HW	74	165	4½ IF	466	F-1000	Emsco	254
4	127	29.02	E3	105	165	4½ IF	179			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																										
MORN.		6¾					¼	¾		¼																
DAY		7					¼	8½		¼																
EVE.		3¾						1																		
TOTAL		20¼					½	2¼		½																

TOTALS

	SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
8	NO. TYPE: 2 Derrick		TMJ 83771			
8	SCREENS CHANGED ☐ YES ☒ NO		AMJ 3276			
8	TOP 110	TOP 175				
$	MIDDLE 175	MIDDLE 175				
24	BOTTOM 175	BOTTOM 110	Aimm at 42			

REVISED MARCH 1996

118123

FAX / RIG MANAGER

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

JUL 21 1999

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest et al Flett N-61	99	07	18
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akita Drilling LTD		
RIG MANAGER: Mayford	RIG NO.: 58		
PROVINCE: NWT	CAMP ☒ YES ☐ NO	RIG SAFETY DAYS: 1089	

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		.30
1	MOTOR		7.91 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.91 m
1	Shock Sub		3.95 m
3	228 DC		27.20 m
1	Jars		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		247.06 m
77	D.P.	STANDS	2211.91 m
	D.P.	SINGLES	m
Stick up	KELLY DOWN		9.99 m
	TOTAL		2449 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	94000	1000 daN	

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3x15x19
DEPTH OUT (m)	
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	27
TOTAL HOURS RUN	17¼

CUTTING STRUCTURE: T_i T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1.6

HOLE CONDITION

HOLE DRAG 14000↑ 11000↓

TORQUE AT BOTTOM 8000-12000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	11:30	16:30	
DENSITY kg/m³	1450	1455	
FUNNEL VIS. - (S/L)	73	71	
W.L. (cm³)	12.2	11.5	
pH	10.5	10.5	
PVT m³	115.6	118.7	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispak	1 SX
Starpak	2 SXS
BARITE	100 SXS
H2O	7.2 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2440	2449	9	35	25/26
		MTR	70	22/26

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 15100	152	83	152	83

REDUCED PUMP SPEED: Choke 6400 @ ; Manifold 6500 @ 83

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2434.3	1.1	24.9

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1	2	Drill F/2440.5m - 2442m < Slide
09:00	09:15	¼	8	Replace head # 2 pump
09:15	15:00	5¾	2	Drill F/2442-2444.5m < Slide
	15:00	15:15	¼	10	Survey @ 2434.3
15:15	15:30	¼	2	Drill F/2449.3-2449.4m < Slide
15:30	15:45	¼	8	Work on # 2 pump
15:45	16:00	¼	7	R/S Function Bot pipe 8sec

Pump Parts - 1 Sow, Head 1 (Mission) Head 1 Liner

NOTES: √ Crown Saver, deadline anchor, fastline clamp. Held Watch/dog meeting w/crew

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			123000	WHMIS/WOMS Training	5275

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	8		☒
DERRICKMAN		Ned Melnyk	8		☒
MOTORMAN		Mike Guerin	8		☒
FLOORMAN		Wayne Chretien	8		☒
FLOORMAN		Adam Murray	8		☒
LEASEMAN		Moise Punch	8		☒
Lease		Joe Roth	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		.30
1	MOTOR		7.91 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.91 m
1	Shock Sub		3.95 m
3	228 DC		27.20 m
1	Jars		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		247.06 m
77	D.P.	STANDS	2211.91 m
	D.P.	SINGLES	m
Stick up	KELLY DOWN		9.99 m
	TOTAL		2449 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	94000	1000 daN	

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3x15x19
DEPTH OUT (m)	
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	27
TOTAL HOURS RUN	17¼

CUTTING STRUCTURE: T_i T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1.6

HOLE CONDITION

HOLE DRAG 14000↑ 11000↓

TORQUE AT BOTTOM 8000-12000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	11:30	16:30	
DENSITY kg/m³	1450	1455	
FUNNEL VIS. - (S/L)	73	71	
W.L. (cm³)	12.2	11.5	
pH	10.5	10.5	
PVT m³	115.6	118.7	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispak	1 SX
Starpak	2 SXS
BARITE	100 SXS
H2O	7.2 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2440	2449	9	35	25/26
		MTR	70	22/26

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 15100	152	83	152	83

REDUCED PUMP SPEED: Choke 6400 @ ; Manifold 6500 @ 83

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2434.3	1.1	24.9

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1	2	Drill F/2440.5m - 2442m < Slide
09:00	09:15	¼	8	Replace head # 2 pump
09:15			2	Drill F/2442-2444.5m < Slide
	15:00	15:15	¼	10	Survey @ 2434.3
15:15	15:30	¼	2	Drill F/2449.3-2449.4m < Slide
15:30	15:45	¼	8	Work on # 2 pump
15:45	16:00	¼	7	R/S Function Bot pipe 8sec

Pump Parts - 1 Sow, Head 1 (Mission) Head 1 Liner

NOTES: √ Crown Saver, deadline anchor, fastline clamp. Held Watch/dog meeting w/crew

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			123000	WHMIS/WOMS Training	5275

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	12		☒
DERRICKMAN		Jerry Foley	12		☒
MOTORMAN		Kevin Vandenbrand	12		☒
FLOORMAN		Julien Sassie	12		☒
FLOORMAN		Gerald Gilbert	12		☒
LEASEMAN		Lawrence Loreen	12		☒
RIG WATCH					

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		.30
1	MOTOR		7.91 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.91 m
1	Shock Sub		3.95 m
3	228 DC		27.20 m
1	Jars		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	HWDP		27.32 m
1	TBR		1.71 m
6	HWDP		54.62 m
	BHA		247.06 m
77	D.P.	STANDS	2211.91 m
	D.P.	SINGLES	m
Stick up	KELLY DOWN		9.99 m
	TOTAL		2449 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	94000	1000 daN	

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3x15x19
DEPTH OUT (m)	
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	27
TOTAL HOURS RUN	17¼

CUTTING STRUCTURE: T_i T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1.6

HOLE CONDITION

HOLE DRAG 14000↑ 11000↓

TORQUE AT BOTTOM 8000-12000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	11:30	16:30	
DENSITY kg/m³	1450	1455	
FUNNEL VIS. - (S/L)	73	71	
W.L. (cm³)	12.2	11.5	
pH	10.5	10.5	
PVT m³	115.6	118.7	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispak	1 SX
Starpak	2 SXS
BARITE	100 SXS
H2O	7.2 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2449	2456	7	35	25/27
		MTR	70	24/26

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 15000	152	83	152	83

REDUCED PUMP SPEED: Choke 6300 @ ; Manifold 6400 @ 83

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:00	1	8	Work on # 2 pump
17:00	24:00	7	2	Drill F/2449.4-2456m < SLIDE 4m

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

118123

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			125000		5347 kPa

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	4		☒
DERRICKMAN		Ned Melnyk	4		☒
MOTORMAN		Mike Guerin	4		☒
FLOORMAN		Wayne Chretien	4		☒
FLOORMAN		Adam Murray	4		☒
LEASEMAN		Moise Punch	4		☒
Lease		Joe Roth	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118122

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61 - 6040 - 12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Murray Eaglen | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Lougheed

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) HS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial / Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial / Initial
(3) Mast Inspection Before Raising or Lowering — Initial / Initial
(4) Crown Saver Checked — Initial / Initial
(5) Motor Kills checked — Initial / Initial

YEAR	MONTH	DAY
99	07	17

RIG NO. 58

FUEL @ 8:00

RIG 1.55 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	OD/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	127	75.5	DS	108	165	4½ IF	76	F-1000	Emsco	254
2	178	134.8	DS	58	205	5½ FH	76			
3	127	74.3	HW	79	165	4½ IF	10	F-1000	Emsco	254
4	127	29.02	E75	108	165	"	196			

TIME-HRS

CODE NO.	1 OPER.	2 DRLG ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.				½	¾	¼		¾											¾		3¼	1¾			
	DAY				½	4½	¼													¾						
	EVE.	3½			3	¾				¼																
	TOTAL	3½			4	5¼	½		¾	¼										3¼		3¼	1¾			

TOTALS: 8 / 8 / 8 / 24

SHALE SHAKER(S)

NO.	TYPE
2	Derrick

SCREENS CHANGED ☐ YES ☒ NO

TOP	110	TOP	175
MIDDLE	175	MIDDLE	175
BOTTOM	175	BOTTOM	110

RENTALS/SERVICES

	MORN	DAY	EVE
TMJ 82923			
AmJ 2428			
Accum OIL .42			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	mtr	197	7.91 m
1	Monel		9.31 m
1	Trans Sub		1.40 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jars		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.32 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA =	247.09 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		35000	1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2422				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0000	03:15	3¼	22	INSPECT DRILL COLLARS & HWDP
03:15	04:00	¾	6	R.I.H. to 780m Flow✓
04:00				INSPECT CONNECTIONS ON TOP DRIVE
	0545	1¾	23	Change Saver Sub & Grabber Dies
0545	0600	¼	20	Test MWD Tool @ 780m
0600	06:45	¾	9	Slip & Cut 20m Drill Line
0645	07:15	½	20	Circulate & Test MWD
07:15	07:30	¼	7	R/S Function Ann 20sec
07:30	08:00	½	5	Circulate & mix pill

NOTES: ✓Crown Saver Fastline Clamp Deadline Anchor
Test crown Saver after Slip & cut

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	mtr	197	7.91 m
1	monel		9.31 m
1	Trans Sub		1.40 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jars		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 DC		57.32 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	247.09 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		35000	1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	Trip Record
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	Cal 7.53m³
W.L. (cm³)	ACT 8.37m³
pH	Diff +.84m³

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARITE	25 sxs

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00			6	✓Flow, Pump D.H. P.O.H 5 STDS ✓Flow P.O.H
	10:00	2		✓Flow @ H.W.T on Bank Blinds 7sec
10:00	12:00	2	20	Check MWD Tool
12:00	13:00	1	6	✓Flow, R.I.H BHA. 247m ✓Flow
13:00	13:15	¼	7	R/S Function Top pipe 8sec
13:15	14:00	¾	6	R.I.H F/247m - 780m ✓Flow
14:00	14:30	½	20	Circulate & Test MWD Take CK. Shot
14:30	15:30	1	6	R.I.H F/780m - 1560m ✓Flow
15:30	16:00	½	5	Break Circulation

NOTES: ✓Crown Saver, deadline anchor, fastline clamp
Held Safety Meeting w/Crew

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0				Thread Cleaning	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	mtr	197	7.91 m
1	Monel		9.31 m
1	Trans Sub		1.40 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jars		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.32 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	247.09 m
76	D.P.	STANDS	m
X	D.P.	SINGLES	2192.78 m
Stuck Pipe	KELLY DOWN		9.36 m
	TOTAL		2430 m
WT. OF DC		35000	1000 daN
WT. OF STRING		72000	1000 daN

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	5 2 7
MFG.	H.C.
TYPE	GT28D
SERIAL NO.	E83Y5
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	8
TOTAL HOURS RUN	3½

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓
TORQUE AT BOTTOM 8500 - 10000 Nm
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME		21:00	22:00
DENSITY kg/m³		1460	1460
FUNNEL VIS. - (S/L)		54	71
W.L. (cm³)		10.8	10.6
pH		10.0	10.5
ASTM³		113.7	113.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Polysalfate	36 sxs
Soltex	2 sxs
Caustic	1 Pail
Glycide	1 Pail
Lime	1 sx
Caustic	1 sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2422	2430	8	35 ↑ 55 ↓	22 ↑ 24 ↓
			MTR = 70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13400	152	80	152	80

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2415.3	1.0	27.1

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:15	¼	6	R.I.H 1560m - ~~2210~~ 1722m. Tag bridge
16:15	16:30	¼	5	Break circ. Wash F/1722-1731m
16:30	17:30	1	6	R.I.H F/1731 - 2210 Tag Bridge
17:30	20:15	2¾	5	Wash Ream F/2210 - 2422m
20:15	21:00	¾	21	Break in Bit w/2 - 4000 Dan
21:00	23:45	2¾	2	DRILL 2422m - 2430.3
23:45	24:00	¼	10	Survey @ 2415.3

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

118122

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			120 000 Dan		5275 kPa

REVISED MARCH 1996

118122

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APPROVAL PENDING

FAX / RIG MANAGER

JUL 21 1999

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 07 | DAY 17

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Lougheed | RIG NO. 58

PROVINCE: NWT | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1083

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		ALLAN LICKOCH	8		✓
DERRICKMAN		NED MELNYK	8		✓
MOTORMAN		MIKE GUERIN	8		✓
FLOORMAN		WAYNE CHRETIEN	8		✓
FLOORMAN		ADAM MURRAY	8		✓
LEASEMAN		MOISE PUNCH	8		✓
Lease		JOE RODH	8		✓
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	12		✓
DERRICKMAN		Jerry Foley	12		✓
MOTORMAN		Kevin Vandenbrand	12		✓
FLOORMAN		Julien Sassie	12		✓
FLOORMAN		Gerald Gilbert	12		✓
LEASEMAN		Lawrence Loreen	12		✓
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		ALLAN LICKOCH	4		✓
DERRICKMAN		NED MELNYK	4		✓
MOTORMAN		MIKE GUERIN	4		✓
FLOORMAN		WAYNE CHRETIEN	4		✓
FLOORMAN		ADAM MURRAY	4		✓
LEASEMAN		MOISE PUNCH	4		✓
Lease		JOE RODH	4		✓
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118121

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61 - 6040 - 12330 | UNIQUE ID.: 300 - N61 - 6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: B. Munro Pearson | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Stanley

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (one/crew/month)	Initial	Initial
(3) HS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually Inspect BOP's - Flowlines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	
(3) Mast Inspection Before Raising or Lowering	Initial	
(4) Crown Saver Checked	Initial	
(5) Motor Kills checked	Initial	

YEAR 99 | MONTH 07 | DAY 16

RIG NO. 58

FUEL @ 8:00

RIG 1.74 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
229	244.5	DC	71	229	7⅝ REG	7			
178	174.9	DC	57	178	6⅝ H90	26	F-1000	Emsco	254
127	74.3	HW	54	165	4½ IF	10	F-1000	Emsco	254
127	29.02	E75	108	140	" "	25 (198)			

REVISED MARCH 1996

118121

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

FAX / RIG MANAGER

JUL 21 1999

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 07 | DAY 16

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Stanley | RIG NO. 58

PROVINCE: NWT | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1088

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
MORN.						3¾									2¼							Handle Tools/Inspect BHA				
DAY						4¼									3¼							2				
EVE.							¼								½							1¼	6			
TOTAL						4¼	¼								6							3¼	6			

TOTALS

SHALE SHAKER(S)

	NO.	TYPE
6	2	Derrick
6	SCREENS CHANGED	☒ YES ☐ NO
8	TOP 110	TOP 175#
8	MIDDLE 175	MIDDLE 175
24	BOTTOM 175	BOTTOM 110

RENTALS/SERVICES

	MORN	DAY	EVE
TMJ 81042			
AMJ 7252			
Accum Ctl .42			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	19
SIZE (mm)	311.2
IADC CODE	517
MFG.	Reed
TYPE	EHP51H
SERIAL NO.	KC5611
JETS (mm)	3 x 15.9
DEPTH OUT (m)	2422
DEPTH IN (m)	2284
TOTAL METRES DRILLED (m)	138
TOTAL HOURS RUN	4/5

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
6	8	BT	A	E	7mm	EG	TQ	30

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TRIP RECORD

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	
CAL =	14.50 m³
M&A. =	16.74 m³
DIFF =	2.24 m³

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2422				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	03:45	3¾	6	POOH Flow ✓ 40, HW,
03:45	05:45	2	22	Lay Down MWD Tool & Motor Blk. Bit
05:45	08:00	2¼	15	Pull wear bushing & P/U packer & Test plug
				Pressure Test BOP
				Annular 15 min. 1500 Low 13000 High 15 min
				Top pipe 15 min. 1500 Low 13000 High 15 min
				Inside BOP 15 min 1500 Low 13000 High 15 min

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	8		☒
DERRICKMAN		Ned Melnyk	8		☒
MOTORMAN		Mike Guerin	8		☒
FLOORMAN		Wayne Chretien	8		☒
FLOORMAN		Adam Murray	8		☒
LEASEMAN		Moise Punch	8		☒
		Joe Rodh	8		☒ JR
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			m
			m
			m
			m
			m
			m
			m
			m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC			1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	
SIZE (mm)	
IADC CODE	
MFG.	
TYPE	
SERIAL NO.	
JETS (mm)	
DEPTH OUT (m)	
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
0800			15	Pressure Test BOP
				Blind Rams 1500 Low 13000 High, 15 min/ea
				Stabbing valve 1500# - 13000# 15 min/ea.
	09:00	1		Bot pipe 1500 L - 13000 H. 15 min/ea.
09:00			6	Make up Packer ✓ Flow R.I.H W/ Packer to
	11:45	2¾		718 m, set packer
11:45	13:00	1¼	15	Press. Test casing 1500 Low 13000 Hi 15 min/ea.
13:00			6	✓ Flow, P.O.H 5 stds ✓ Flow, P.O.H lay down Packer
	15:00	2		✓ Flow
15:00	16:00	1	15	Press Test Top drive valves
				1500 Low 13000 high 15 min ea.

NOTES: ✓ Crown Saver, deadline anchor, fastline clamp

Service Pumps #1 & #2

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	12		☒
DERRICKMAN		Jerry Foley	12		☒
MOTORMAN		Kevin Vanderbrand	12		☒
FLOORMAN		Julien Sassie	12		☒
FLOORMAN		Gerald Gilbert	12		☒
LEASEMAN		Lawrence Loreen	12		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	mill tr	330	2.41 m
1	Mogul		1.31 m
1	Float Sub		1.50 m
1	Shock Sub		3.55 m
3	228 DC		27.20 m
5	Jars		9.17 m
1	228 DC		9.31 m
6	178 DC		57.49 m
1	XO		1.41 m
3	HWDP		27.93 m
1	TBR		1.91 m
6	HWDP		54.62 m
	BHA		247.19 m
	D.P.	STANDS	m
	D.P.	SINGLES	m
	KELLY DOWN		m
	TOTAL		m
WT. OF DC		35 000	1000 daN
WT. OF STRING			1000 daN

BIT RECORD

BIT NO.	20
SIZE (mm)	311.2
IADC CODE	527
MFG.	H.C
TYPE	GT28D
SERIAL NO.	E83YS
JETS (mm)	3 x 15.9
DEPTH OUT (m)	2422
DEPTH IN (m)	2422
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	
DENSITY kg/m³	
FUNNEL VIS. - (S/L)	
W.L. (cm³)	
pH	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2422				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:30	½	15	Function Test Accumulator
16:30	16:45	¼	7	R.S Function Blinds 7sec
16:45	17:00	¼	22	Install wear Bushing
17:00	18:00	1	22	P/U Motor set to 1.83 deg m/u bit # 20
18:00	24:00	6	23	Inspect BHA

NOTES: ✓ Crown Saver, Fastline clamp, Deadline Anchor

CHANGED 2 Discharge Valves & SEATS IN Pump #1 & #2

+ 1 Suction valve in # 2.

118121

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8					

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		ALLAN LICKOCH	4		☒
DERRICKMAN		NED MELNYK	4		☒
MOTORMAN		MIKE GUERIN	4		☒
FLOORMAN		Wayne Chretien	4		☒
FLOORMAN		Adam Murray	4		☒
LEASEMAN		Moise Punch	4		☒
		Joe Rodh	4		☒ JR
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

118120

FOLD HERE →

LICENCE NO.: 1863	WELL NAME AND NO.: Canadian Forest et al Flett N-61
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: N61-6040-12330	UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER: Langlois

DAILY CHECKS — OPR. Initial / R.M. Initial

(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) HS Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually inspect BOP's - Flarelines & Degasser Lines

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 07 | DAY 15

RIG NO. 58

FUEL @ 8:00

RIG: 61 | BOILER

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTEC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
220	245.5	DC	71	228	6 5/8 REG	11			
178	174.3	DC	58	178	4 1/2 IF	76	F-1000	Emsco	254
127	74.3	HW	74	165	4 1/2 IF	10	F-1000	Emsco	254
127	29.02	E75	108	165	4 1/2 H90	179			

REVISED MARCH 1996

118120

FAX / RIG MANAGER

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

JUL 21 1999

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest et al Flett N-61	99	07	15

OPERATOR	CONTRACTOR
Canadian Forest Oil	Akita Drilling LTD

RIG MANAGER	RIG NO.
Langlois	58

PROVINCE	CAMP	RIG SAFETY DAYS:
NWT	☒ YES ☐ NO	1081

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			7¾					1/4			1/2														
DAY			7					1/4			3/4														
EVE.			3¾				1½	2¼			1/4														
TOTAL			18				1½	2¼			1¼														

TOTALS

SHALE SHAKER(S) NO.	TYPE
8	Derrick
SCREENS CHANGED	☐ YES ☒ NO
8 TOP	175
8 MIDDLE	175
24 BOTTOM	110

RENTALS/SERVICES	MORN	DAY	EVE
TMJ 79667			
AMJ 5877			
Accum Oil :42			

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		0.30
1	mtr		6.27 m
1	Monel		9.31 m
1	Trans Sub		1.20 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Sans		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.17 m
6	H.W.		54.62 m
	BHA		247.44 m
75	D.P.	STANDS	2154.87 m
XX	D.P.	SINGLES	2173.81 m
Stick Up	KELLY DOWN		8.25 m
	TOTAL		2413 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	97000	1000 daN	

BIT RECORD

BIT NO.	19
SIZE (mm)	311.2
IADC CODE	5 1 7
MFG.	Reed
TYPE	EHP51H
SERIAL NO.	KC5671
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2284
TOTAL METRES DRILLED (m)	107
TOTAL HOURS RUN	34¼

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 8000↑ 10000↓

TORQUE AT BOTTOM: 7000 - 9000 NM

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	02:00	04:00	06:00
DENSITY kg/m³	1435	1440	1440
FUNNEL VIS. - (S/L)	71	70	70
W.L. (cm³)	11.4	11.0	11.0
pH	10.5	10.5	10.5
PVT m³	70.1	71.0	70.3

MUD MATERIALS ADDED PRODUCT	AMOUNT X UNIT
Bar. Ite	215 sxs
Lecinex	1 Pail
Sodium Hydrate	1 sx
Lime	1 sx
Caustic	1 sx
Pac-R	0.8 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2366	2391	25	MTR	25/27
		MTR = 70		30/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13700	152	80	152	80

REDUCED PUMP SPEED

6500 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2358.9	0.8	65.4
2368.1	1.0	67.0

DRILLER SIGNATURE

Ron Cadieux

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
00:00	02:15	2¼	2	Drill 2366m - 2373m < Slide 2m
02:15	02:30	¼	10	Survey @ 2358.9
02:30	05:00	2½	2	Drill 2373m - 2383m < Rotate
05:00	05:15	¼	7	R/S Function top pipe Rams 6 sec.
05:15	05:30	¼	2	Drill 2383m - 2383m < Rotate
05:30	05:45	¼	10	Survey @ 2366.1
05:45	08:00	2¼	2	Drill 2383m - 2391m < Slide 4m

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			111000 Dan		5419

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	8		☒
DERRICKMAN		Ned Melnyk	8		☒
MOTORMAN		Mike Guerin	8		☒
FLOORMAN		Wayne Chretien	8		☒
FLOORMAN		Adam Murray	8		☒
LEASEMAN		Moise Punch	8		☒
		Joe Rodh	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		0.30
1	mtr		6.27 m
1	monel		9.31 m
1	Trans Sub		1.20 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 D.C.		27.20 m
1	Sans		5.77 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.17 m
6	H.W.		54.62 m
	BHA		247.44 m
75	D.P.	STANDS	m
XX	D.P.	SINGLES	2173.81 m
Stick Up	KELLY DOWN		8.25 m
	TOTAL		2413 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	97000	1000 daN	

BIT RECORD

BIT NO.	19
SIZE (mm)	311.2
IADC CODE	5 1 7
MFG.	Reed
TYPE	EHP51H
SERIAL NO.	KC5671
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2384
TOTAL METRES DRILLED (m)	129
TOTAL HOURS RUN	41¼

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 13000↑ 12000↓

TORQUE AT BOTTOM: 8000 - 12000 NM

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	08:30	12:00	16:00
DENSITY kg/m³	1440	1440	1440
FUNNEL VIS. - (S/L)	75	75	73
W.L. (cm³)	12.6	10.5	11.3
pH	10.5	10.5	10.4
PVT m³	71.6	69.9	115.0 Core

MUD MATERIALS ADDED PRODUCT	AMOUNT X UNIT
Lignite	4 sxs
Starpak	4 sxs
Drispak	2 sxs
H2O	7.2 m³
Transfer 9m³ TO	
WADECO F/Stuffing	
Pot Sulf	40 sxs.

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2391	2413	22	35	27/28
		MTR	70	30/35

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 14000	152	80	152	80

REDUCED PUMP SPEED

Choke 6800 manifold @ @ 80

DEVIATION SURVEY 7000

DEPTH (m)	DEVIATION (°)	DIRECTION
2377.7	0.8	61.2
2387.3	0.7	55.1
2396.7	0.8	52.0

DRILLER SIGNATURE

Ron Cadieux

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08:00	08:30	½	2	Drill F/2391m - 2392.7m < Rotate
08:30	08:45	¼	10	Survey @ 2377.7m
08:45	10:00	1¼	2	Drill F/2392.7 - 2395.7m < Slide
10:00	12:15	2¼	2	Drill F/2395.7 - 2402.3 < Rotate
12:15	12:30	¼	7	Rig Service function Bot pipe 7sec
12:30	12:45	¼	10	Survey @ 2387.3
12:45	15:15	2½	2	Drill F/2402.3 - 2411.7m < Rotate
15:15	15:30	¼	10	Survey @ 2396.7
15:30	16:00	½	2	Drill F/2411.7 - 24:13m < Slide

CHANGED HEAD # 2 PUMP.

NOTES: √ Crown Saver, deadline anchor, fastline clamp. Held safety Meeting W/Crew

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			112000	Drill Floor	5420

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	12		☒
DERRICKMAN		Jerry Foley	12		☒
MOTORMAN		Kevin Vandenbroud	12		☒
FLOORMAN		Julien Sassie	12		☒
FLOORMAN		Gerald Gilbert	12		☒
LEASEMAN		Lawrence Loreen	12		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		0.30
1	MTR		6.27 m
1	Monel		9.31 m
1	Trans Sub		1.20 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Sans		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	HW		27.32 m
1	TBR		1.17 m
6	HW		54.62 m
	BHA		247.44 m
76	D.P.	STANDS	m
XX	D.P.	SINGLES	2192.79 m
Stick Up	KELLY DOWN		18.22 m
	TOTAL		2422 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	98000	1000 daN	

BIT RECORD

BIT NO.	19
SIZE (mm)	311.2
IADC CODE	5 1 7
MFG.	Reed
TYPE	EHP51H
SERIAL NO.	KC5671
JETS (mm)	3x15.9
DEPTH OUT (m)	2422
DEPTH IN (m)	2284
TOTAL METRES DRILLED (m)	138
TOTAL HOURS RUN	45

CUTTING STRUCTURE T1	T0	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
6	8	BT	A	E	2mm	RG	TD	3.0

HOLE CONDITION

HOLE DRAG: 8000↑ 10000↓

TORQUE AT BOTTOM: 7500 - 10000 NM

FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	19:00	20:30	
DENSITY kg/m³	1450	1450	
FUNNEL VIS. - (S/L)	73	71	
W.L. (cm³)	10.4	10.5	
pH	10.4	10.3	
PVT m³		113.7	

MUD MATERIALS ADDED PRODUCT	AMOUNT X UNIT
Bar-ite	20 sxs
Bar-ite	100 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2413	2422	9	35	26/26
		MTR	70	30/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13400	152	80	152	80

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2406.3	0.9	33.7

DRILLER SIGNATURE

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
16:00	17:00	1	2	Drill F/2413 - 2414.9 < Slide
17:00	19:15	2¼	2	Drill F/2414.9 - 2421.2
19:15	19:30	¼	10	Survey @ 2406.3
19:30	20:00	½	2	Drill 2421m - 2422 < Rotate
20:00	21:30	1½	5	Circ BTms up & Flow √
21:30	22:00	½	6	POOH. 5 stds & pump pill Flow @ 5 stds.
22:00	3:00	2	6	POOH. 15 stds Flow Mix pill #2

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

118120

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
			135000		5347

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	4		☒
DERRICKMAN		Ned Melnyk	4		☒
MOTORMAN		Mike Guerin	4		☒
FLOORMAN		Wayne Chretien	4		☒
FLOORMAN		Adam Murray	4		☒
LEASEMAN		Moise Punch	4		☒
		Joe Rodh	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118119

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ET AL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-13350 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Wilbur Sloan Manor Rogers | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck Gary Forth

DAILY CHECKS | OPR. | R.M.

(1) Daily Walk Around Inspection — Initial WR / DL
(2) Detailed Inspection Weekly (using checklist) — Initial WR / DL
(3) HS Signs Posted (if required) — Initial WR / DL
(4) Well License & Stick Diagram Posted — Initial WR / DL
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial DL
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 07 | DAY 14

RIG NO. 58

FUEL @ 8:00

RIG 1.00 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203	246.5	DC	74	298	6⅝ REG	3			
178	174.8	DC	58	178	6H90	26	F-1000	Emsco	254
127	74.3	HW	74	165	4½IF	10	F-1000	Emsco	254
127	29.02	E-Z	108	165	11	138			

REVISED MARCH 1996

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

118119

FAX / RIG MANAGER

JUL 21 1999

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest ET AL FLETT N61 | YEAR 99 | MONTH 07 | DAY 14

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: DAVE Lauck Gary Forth | RIG NO.: 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1080

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22
OPER.																						BOP Drill
MORN.		7					1/4	1/4		1/4												
DAY		7 1/4								3/4												
EVE.		9 1/4					1/4			3/4												
TOTAL		23 1/4					1/2	1/4		2												1/4

TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES	MORN.	DAY	EVE.
2	TYPE: Derrick	Derrick	TMJ-7876			
8	SCREENS CHANGED ☒ YES ☐ NO		AMJ-4926			
8	TOP 175	TOP 175				
8	MIDDLE 175	MIDDLE 175				
24	BOTTOM 170*	BOTTOM 110*	Accum oil-.42			

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		.30 m
1	MOTOR		8.27 m
1	MONEL		9.31 m
1	TRANS SUB		1.90 m
1	FLOAT SUB		.81 m
1	SHOCK SUB		3.85 m
3	228 DC		27.30 m
1	SUB		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA:	247.44 m
72	D.P.	STANDS	m
X	D.P.	SINGLES	2079.07 m
STICK UP KELLY DOWN			11.51 m
	TOTAL		2315 m
WT. OF DC			35000 1000 daN
WT. OF STRING			95000 1000 daN

BIT RECORD

BIT NO.	19
SIZE (mm)	311.2
IADC CODE	5 1 7
MFG.	Reed
TYPE	EHP51H
SERIAL NO.	KC5671
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2284
TOTAL METRES DRILLED (m)	31
TOTAL HOURS RUN	13

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 6000↑ 6000↓

TORQUE AT BOTTOM 7000 - 8000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1420	1420	1420
FUNNEL VIS. - (S/L)	78	78	74
W.L. (cm³)	10.8	10.5	11.0
pH	10.5	10.5	10.5
P.V.T.	70.9	69.0	68.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Potsulfate	40 SX
Alcomer 110	1 SX
Carinox	1 pail
Soda Ash	1 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2296	2315	17	55 MTR	25
			70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13500	152	80	152	80

REDUCED PUMP SPEED: 6100 @ 80 @ 2296

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2282.9	0.4	168.2
2292.6	0.3	126.0

DRILLER SIGNATURE: Gary Patrick

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
00:00	00:15	1/4	8	Work on Pump
00:15	00:45	1/2	2	Drill F/2296m - 2298 m < Rotate.
00:45	01:00	1/4	10	Survey @ 2282.9
01:00	04:00	3	2	Drill F/2298 m - 2306 m. < Rotate.
04:00	04:15	1/4	7	R/S, Function Lower Pipe Rams & Check/Kelly
04:15	04:45	1/2	2	Drill F/2306m - 2307.5m < Rotate.
04:45	05:00	1/4	10	Survey @ 2292.6
05:00	8:00	3	2	Drill F/2307.5 m - 2315 m

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor. Changed 1 S.W. Head in Pump #2

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000 DAN		5564 kPa

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		Larry Stownichy	8		LS
LEASEMAN		Jason Villeneuve	8		JV
Lease		EDWARD Landry	8		EL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		.30 m
1	MTR.		8.27 m
1	MONEL		9.31 m
1	TRANS SUB		1.90 m
1	FLOAT SUB		.81 m
1	SHOCK SUB		3.85 m
3	228 DC		27.30 m
1	SUB		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	247.44 m
73	D.P.	STANDS	2078.00 m
	D.P.	SINGLES	m
Stick up KELLY DOWN			5.50 m
	TOTAL		2340 m
WT. OF DC			35000 1000 daN
WT. OF STRING			94000 1000 daN

BIT RECORD

BIT NO.	19
SIZE (mm)	311.2
IADC CODE	5 1 7
MFG.	Reed
TYPE	EHP51H
SERIAL NO.	KC5671
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2284
TOTAL METRES DRILLED (m)	56
TOTAL HOURS RUN	20¼

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8000↑ 10000↓

TORQUE AT BOTTOM 7000 - 8500 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1420	1425	1425
FUNNEL VIS. - (S/L)	72	76	78
W.L. (cm³)	11.8	11.2	10.8
pH	10.5	10.5	10.5
PVT m³	62.8	68.6	69.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Potsulfate	44 sxs
Carinox	1 Pail
Soda Ash	1 SX
Xcp	1 SX
Starpak	1 SX
Drispac	1 SX
Ethomeen C/25	1 Pail

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2315	2340	25	55 MTR	25
			70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13600	152	80	152	80

REDUCED PUMP SPEED: 6400 @ 80 @ 2336m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2302.2	0.4	117.0
2311.5	0.5	112.9
2321.1	0.4	83.1

DRILLER SIGNATURE

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08:00	08:45	3/4	2	DRILL 2315m - 2317m < Rotate
08:45	09:00	1/4	10	Survey @ 2302.2
09:00	12:00	3	2	DRILL 2317m - 2326m < Rotate
12:00	12:15	1/4	10	Survey @ 2311.5
12:15	14:45	2½	2	DRILL 2326m - 2336m < Rotate
14:45	15:00	1/4	10	Survey @ 2321.1
15:00	16:00	1	2	DRILL 2336m - 2340m < Rotate

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor. √ FLARE LINE ARMED

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			107000 Dan		5528 kpa

DAY TOUR 08:00 TO 16:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	8		AL
DERRICKMAN		Ned Melnyk	8		NM
MOTORMAN		Mike Guerin	8		MG
FLOORMAN		Wayne Chretien	8		WC
FLOORMAN		Adam Murray	8		AM
LEASEMAN		Moise Punch	8		MP
		Joe Kodh	8		JK
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.		O.D. mm	LENGTH
1	BIT		.30 m
1	mtr.		8.27 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Float sub		.81 m
1	Shock sub		3.85 m
3	228 DC.		27.30 m
1	Subs		5.77 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC.		57.29 m
1	X10		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	247.44 m
74	D.P.	STANDS	m
X	D.P.	SINGLES	2135.67 m
Stick up KELLY DOWN			17.11 m
	TOTAL		2366 m
WT. OF DC			35000 1000 daN
WT. OF STRING			96000 1000 daN

BIT RECORD

BIT NO.	19
SIZE (mm)	311.2
IADC CODE	5 1 7
MFG.	Reed
TYPE	EHP51H
SERIAL NO.	KC5671
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2284
TOTAL METRES DRILLED (m)	82
TOTAL HOURS RUN	27

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 9000↑ 11000↓

TORQUE AT BOTTOM 7500 - 8500 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	16:30	19:00	22:00
DENSITY kg/m³	1425	1425	1425
FUNNEL VIS. - (S/L)	72	72	72
W.L. (cm³)	12.2	11.7	11.2
pH	10.6	10.5	10.3
PVT m³	69.5	69.4	69.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lignite	4 SXS
Pot. Ash	40 SXS
Chemicide	1 Pail
H20	4.8 m³
Barite	15 SXS

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2340	2366	26	55 MTR	25
			70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13700	152	80	152	80

REDUCED PUMP SPEED: Choke 6500 manifold @ @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2330.5	0.5	68.7
2340.0	0.7	62.9
2349.3	1.0	58.6

DRILLER SIGNATURE: Ron Cad

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
16:00	17:30	1½	2	Drill F/2340 - 2344 < Rotate
17:30	17:45	1/4	7	R/S Function Ann 20sec
17:45	18:00	1/4	2	Drill F/2344 - 2345.5 m < Rotate
18:00	18:15	1/4	10	Survey @ 2330.5 m
18:15	20:30	2¼	2	Drill F/2345.5 - 2355m < Rotate
20:30	20:45	1/4	22	BOP Drill well secure 70 sec
20:45	21:00	1/4	10	Survey @ 2340.0m
21:00	23:00	2	2	Drill F/2355 - 2364.3m < Rotate
23:00	23:15	1/4	10	Survey @ 2349.3
23:15	24:00	3/4	2	DRILL 2364m - 2366 < Slide 2m

NOTES: √ Crown Saver, deadline anchor, fastline clamp. Function Remote Choke 19sec

118119

HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			107000		5528

EVENING TOUR 16:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Jerry Foley	8		JF
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN	122 459 969	Gerald Gilbert	8		GG
LEASEMAN		Lawrence Loreen	8		LL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

Jul 14-20

118118

FOLD HERE →

LICENCE NO.:	WELL NAME AND NO.:
1863	Canadian Forest ET AL FLETT N61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	Akita Drilling LTD
SURFACE LOCATION:	**UNIQUE ID.:**
N61-6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**
	Dave Lauck

DAILY CHECKS — OPR. Initial / R.M. Initial

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) HFS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial / Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial / Initial
(3) Mast Inspection Before Raising or Lowering — Initial / Initial
(4) Crown Saver Checked — Initial / Initial
(5) Motor Kills checked — Initial / Initial

YEAR	MONTH	DAY
99	07	13

RIG NO. 58

FUEL @ 8:00

RIG .42 BOILER

WEATHER

TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.9	BTC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
240	249.5	DC	71	330	HT40	24			
178	174.8	DC	58	178	5H90	26	F-1000	Emsco	254
127	74.3	HW	74	165	4½IF	10	F-1000	Emsco	254
127	29.02	E2 E3	108	165	"	Rec 138			

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22
	MORN.		4½			2	1	¼			¼												Handle Tools
	DAY						6¼	¼													¼		1¼
	EVE.	6				1	¾				¼												
	TOTAL	10½				3	8	⅛			½										¼		1¼

SHALE SHAKER(S)

NO.	TYPE
8	Derrick
8	Derrick

SCREENS CHANGED ☐ YES ☒ NO

	TOP	MIDDLE	BOTTOM
8	175	175	210
8	175		
24			

RENTALS/SERVICES

	MORN	DAY	EVE
TMJ-78370			
AMJ-4580			
Accum OIL - .41			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR	240	8.87 m
1	MONEL		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		59.63 m
		BHA:	247.44 m
71	D.P.	STANDS	2040.93 m
—	D.P.	SINGLES	— m
STICK UP KELLYDOWN			4.22 m
	TOTAL		2284.15 m
WT. OF DC		35000	1000 daN
WT. OF STRING		94000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	2284
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	208
TOTAL HOURS RUN	138¼

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.
2 | 3 | WT | A | F | I | NO | TD | 1.5

HOLE CONDITION

HOLE DRAG 10000 ↑ 8000 ↓
TORQUE AT BOTTOM 8000-9000 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1420	1420	1420
FUNNEL VIS. - (S/L)	68	73	73
W.L. (cm³)	11.5	11.0	11.5
pH	10.5	10.5	10.5
PVT	76.3	77.2	75.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispac	1 SX
Starpac	2 SX
Lignite	2 SX
Corinox	1 Pail
Sod Sulfite	1 SX
Barite	89 SX
Premix Gel	1.44 m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2277	2284	7	35+ mtr	27
		mtr: 70		

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Gharke 13200	152	80	152	80

REDUCED PUMP SPEED

Gharke 5800 @ 2279m @ 80
Mainfold 5900

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2264.0	0.4	195.4

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:00	1	2	Drill F/ 2277m - 2279.m
01:00	01:15	¼	7	RIS, Function Upper Pipe Rams 6 Sec ck/ RSPP
01:15	01:30	¼	10	Survey @ 2264 m
01:30	05:00	3½	2	Drill F/2279 m - 2284 m
05:00	07:00	2	5	Circulate bottoms up, mix pill, Flow/ Pump Pill
07:00	08:00	1	6	P.O.O.H. Flow/ 5 stds

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000		5564 KPA

DAY TOUR

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2284				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED

@ @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
TRP RECORD		
MEA 6175 m³		
CAL 13.86 m³		
DIFF 0.39		

DRILLER SIGNATURE

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	12:00	4	6	P.O.O.H. Flow/ 35; HW, out of Hole
12:00	13:15	1¼	22	Brk. Bit, Set motor & m/u New Bit
13:15	13:30	¼	7	RIS Function Blind Rams 6 Sec. Flow/
13:30	15:00	1½	6	R.I.H. to 780m Flow/
15:00	15:15	¼	20	Test MWD Tool @ 780m
15:00	16:00	¾	6	RIH to 1480m
				#1 Pump change Valve guide & plate (middle discharge)
				#1 Pump: change 1 one suction valve
				#2 Pump: change 1 discharge valve, 1 suction valve, 2 liner gaskets.

NOTES √Crown Saver, Fastline. Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0					

EVENING TOUR

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2284	2296	12	5 mtr	24
		mtr: 70		

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Gharke 13600	152	80	152	80

REDUCED PUMP SPEED

Gharke 6000 @ 80 @ 2367m
Mainfold 6100

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2273.2	0.4	169.5

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:45	¾	6	R.I.H. to 2182 m Flow/
16:45	17:45	1	5	Break Circ. & wash to BTM. (2284 m)
17:45	20:30	2¾	2	Break in Bit Drill 2284 m - 2288 m (Rock)
20:30	20:45	¼	10	Survey @ 2273.2 m.
20:45	24:00	3¼	2	Drill F/ 2288 m - 2296 m

NOTES √Crown Saver, Fastline, Clamp, Deadline Anchor. Greased Crown & Blocks. √ Flare Igniters. 118118

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			103000 DAN		5564 KPA

REVISED MARCH 1996

118118

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APPROVAL PENDING

FAX / RIG MANAGER

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest ET AL FLETT N61	99	07	13
OPERATOR	**CONTRACTOR**		
Canadian Forest Oil	Akita Drilling LTD		
RIG MANAGER	**RIG NO.**		
Dave Lauck	58		
PROVINCE	**CAMP** ☒ YES ☐ NO	**RIG SAFETY DAYS:**	
N.W.T.		1079	

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Wotrich	8		MW
MOTORMAN		Wendell Bethel	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		Larry Stawnichy	8		LS
LEASEMAN		Jason Villeneuve	8		JV
Lease		Edward Landry	8		EL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	12		AL
DERRICKMAN		Ned Melnyk	12		NM
MOTORMAN		Mike Guerin	12		MG
FLOORMAN		Wayne Chretien	12		3
FLOORMAN		Adam Murray	12		AM
LEASEMAN		Moise Punch	12		MP
		Joe Kodh	12		JK
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Wotrich	4		MW
MOTORMAN		Wendell Bethel	4		WB
FLOORMAN		Lars Asak	4		LA
FLOORMAN		Larry Stawnichy	4		LS
LEASEMAN		Jason Villeneuve	4		JV
Lease		Edward Landry	4		EL
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118117

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ET AL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature] | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Louck

DAILY CHECKS — OPR. initial / R.M. initial

(1) Daily Walk Around Inspection — DM / DL
(2) Detailed Inspection-Weekly (using checklist) — DM / DL
(3) HS Signs Posted (if required) — DM / DL
(4) Well License & Slick Diagram Posted — DM / DL
(5) Flare Lines Staked — DM / DL
(6) BOP Drills Performed — DM / DL
(7) Visually inspect BOP's - Flarelines & Degasser Lines — DM / DL

(1) Rig Site Health and Safety Meeting (one/crew/month) — initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — initial
(3) Mast Inspection Before Raising or Lowering — initial
(4) Crown Saver Checked — initial DL
(5) Motor Kills checked — initial

YEAR 99 | MONTH 07 | DAY 12

RIG NO. 58 — **FUEL @ 8:00** — RIG .93 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BTC	K55	58	735.55	6.62	735.12
TUBING OR LINER									

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
203	247.5	DC	71.4	285.8	6 5/8 REG	26	F-1000	Emsco	254
178	174.8	DC	58	178	5 H90	26	F-1000	Emsco	254
127	74.3	HW	74	165	4 1/2 IF	10			
127	29.02	ES	108	165	"	206 138			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT. OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRIL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																										
MORN.		7½					¼			¼																
DAY		7¼								¼																
EVE.		7½					¼			¼																
TOTAL		22¾					½			¾																

TOTALS

SHALE SHAKER(S)

NO.	TYPE
2	Derrick
2	Derrick

SCREENS CHANGED ☒ YES ☐ NO

TOP	175	TOP	175
MIDDLE	175	MIDDLE	175
BOTTOM	210	BOTTOM	175

RENTALS/SERVICES — MORN. / DAY / EVE.

TmJ - 75936
AmJ - 2146
Accum Oil - 41

DRILLING ASSEMBLY (At End of Tour)

NO.			O.D. mm	LENGTH
1	BIT			.30
1	MOTOR			8.27 m
1	Monel			9.31 m
1	Trans Sub			1.90
1	Float Sub			.81 m
1	Shock Sub			3.85 m
3	228 DC			27.20 m
1	Jar			5.77 m
5	228 DC			46.31 m
1	X/O			1.37 m
6	178 DC			57.29 m
1	X/O			1.41 m
3	HW			27.32 m
6	TBR			1.71 m
	HW			54.62 m
		BHA:		247.44 m
70	D.P.	STANDS		2021.69 m
X	D.P.	SINGLES		m
Stick up	KELLY DOWN			11.13 m
	TOTAL			2258.00 m
WT. OF DC	35000	1000 daN		
WT. OF STRING	94000	1000 daN		

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	182
TOTAL HOURS RUN	118½

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000 ↑ 6000 ↓
TORQUE AT BOTTOM 7500 - 8000 Nm
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1410	1420	1420
FUNNEL VIS. - (S/L)	80	80	80
W.L. (cm³)	11.0	11.0	11.0
pH	10.5	10.5	10.5
PVT m³	82.2	82.6	77.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Carinox	1 Pail
SodSulfite	1 SX
PolySulfide	56 SX
Lime	2 SX
BAEite	60 SX

SOLIDS CONTROL

DESILTER — HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE — HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DRILLING ASSEMBLY (At End of Tour)

NO.			O.D. mm	LENGTH
1	BIT			.30
1	MTR			8.27 m
1	Monel			9.31 m
1	Trans Sub			1.90
1	Float Sub			.81 m
1	Shock Sub			3.85 m
3	228 DC			27.20 m
1	Jar			5.77 m
5	228 DC			46.31 m
1	X/O			1.37 m
6	178 DC			57.29 m
1	X/O			1.41 m
3	HW			27.32 m
6	TBR			1.71 m
	HW			54.62 m
				247.44 m
70	D.P.	STANDS		2021.67 m
X	D.P.	SINGLES		2.13 m
Stick up	KELLY DOWN			
	TOTAL			2267 m
WT. OF DC	35000	1000 daN		
WT. OF STRING	94000	1000 daN		

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	191
TOTAL HOURS RUN	126¼

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8000 ↑ 10000 ↓ Dan
TORQUE AT BOTTOM 7500 - 9500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1420	1425	1425
FUNNEL VIS. - (S/L)	71	72	71
W.L. (cm³)	10.5	11.2	11.0
pH	10.7	10.8	10.5
PVT m³	79.1	80.7	78.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Carinox	2 Pails
SodSulfite	2 SXS
Chemicide	1 Pail
Pot. Sulph	50 SXS
Barite	42 SXS

SOLIDS CONTROL

DESILTER — HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
2 | 1220 | 1140 | 1950
Barite Recovery
2 | 1425 | 1220 | 2310

CENTRIFUGE — HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DRILLING ASSEMBLY (At End of Tour)

NO.			O.D. mm	LENGTH
1	BIT			.30
1	Motor			8.27 m
1	Monel			9.31 m
1	Trans Sub			1.90
1	Float Sub			.81 m
1	Shock Sub			3.85 m
3	228 DC			27.20 m
1	Jar			5.77 m
5	228 DC			46.31 m
1	X/O			1.37 m
6	178 DC			57.29 m
1	X/O			1.41 m
3	HW			27.32 m
6	TBR			1.71 m
	HW			54.62 m
		BHA:		247.44 m
71	D.P.	STANDS		2040.93 m
—	D.P.	SINGLES		— m
Stick up	KELLY DOWN			11.37 m
	TOTAL			2277.00 m
WT. OF DC	35000	1000 daN		
WT. OF STRING	95000	1000 daN		

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	201
TOTAL HOURS RUN	133¾

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8000 ↑ 10000 ↓
TORQUE AT BOTTOM 8000 - 9000 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	20:00	24
DENSITY kg/m³	1420	1415	1420
FUNNEL VIS. - (S/L)	72	68	67
W.L. (cm³)	10.5	11.9	12.0
pH	10.5	10.4	10.5
PVT m³	80.0	80.2	82.9

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
BARite	60 SX
PolySulfide	56 SX
Lime	2 SX

SOLIDS CONTROL

DESILTER — HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE — HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2249	2258	9	35 T MTR = 70	25/27

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13500	152	80	152	80

REDUCED PUMP SPEED

Choke 6000 @ 80 @ Manifold 6100

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2234.6	0.5	191.9

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:15	¼	10	Survey @ 2234.6m
00:15	07:45	7½	2	Drill F/2249.6m - 2258m < ROTATE
07:45	08:00	¼	7	RS, Function Remote choke.

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			105000 DAN		5564 KPA

DAY TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2258	2267	9	MTR 70	24/27

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13200	152	80	152	80

REDUCED PUMP SPEED

Choke 6100 @ 80 @ Manifold 6400

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2244.6	0.5	201.7

DRILLER SIGNATURE: Dan Louck

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:00	1	2	Drill 2258m - 2259m < ROTATE
09:00	09:15	¼	10	Survey @ 2244.6
09:15	16:00	6¾	2	Drill 2259m - 2267m < ROTATE

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			105000 Dan		5528 Kpa

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2267	2277	10	35 T/2 MTR 70	25/27

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13200	152	80	152	80

REDUCED PUMP SPEED

Choke 6100 @ 80 @ Manifold 6400

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2254.1	0.5	194.5

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:30	1½	2	Drill 2267m - 2268m < ROTATE
17:30	17:45	¼	7	RS Function annular 18 sec √ RSPP
17:45	18:00	¼	2	Drill 2268m - 2269m < ROTATE
18:00	18:15	¼	10	Survey @ 2254.1m
18:15	24:00	5¾	2	Drill 2269m - 2277m < ROTATE

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor. 118117

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000		5564 N/A

REVISED MARCH 1996

118117

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APPROVAL PENDING

FAX / RIG MANAGER

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest ET AL FLETT N61 | YEAR 99 | MONTH 07 | DAY 12

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Louck | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1078

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	8		
DERRICKMAN		Mike Wotrich	8		
MOTORMAN		Wendell Bethel	8		
FLOORMAN		Lars Asak	8		
FLOORMAN		Larry STAWnichy	8		
LEASEMAN		Jason Villeneuve	8		
Lease		EDward Landry	8		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	12		
DERRICKMAN		Ned Melnyk	12		
MOTORMAN		Mike Guerin	12		
FLOORMAN		Wayne Chretien	12		
FLOORMAN		Adam Murray	12		
LEASEMAN		Maise Fuyck	12		
Lease		Joe Rodh	12		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	4		
DERRICKMAN		Mike Wotrich	4		
MOTORMAN		Wendell Bethel	4		
FLOORMAN		Lars Asak	4		
FLOORMAN		Larry STAWnichy	4		
LEASEMAN		Jason Villeneuve	4		
Lease		Edward Landry	4		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

FOLD HERE →

118116

REVISED MARCH 1996

118116

FAX / RIG MANAGER

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

IV

LICENCE NO.: 1863	WELL NAME AND NO.: Canadian Forest ET AL FLETT N61
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: N61-6040-12330	UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:

DAILY CHECKS — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) WHS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flawless & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 07 | DAY 11

RIG NO. 58

FUEL @ 8:00

RIG 1.32 | BOILER

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BT&C	K55	58	735.65	6.62	735.12

WEATHER	
TEMPERATURE °C	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT.O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
229	94.5	DC	77.8	177.8	4½ IF	14			
178	174.8	DC	58	178	5½ FH	26	F-1000	EMSCO	254
127	74.3	HW	74	165	4½ IF	10	F-1000	EMSCO	254
127	29.02	E3	108	165	NC 38 (3½ IF)	11			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL-LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			7¼					¼			¼														
DAY			7¾								¼														
EVE.			7¾					¼																	
TOTAL			23					½			½														

SHALE SHAKER(S)

NO.	TYPE
2	Derrick Derrick
SCREENS CHANGED	☒ YES ☐ NO
TOP 175	TOP 175
MIDDLE 195	MIDDLE
BOTTOM 210	BOTTOM

RENTALS/SERVICES

TMJ-75771
AMJ-1981
Accum oil-041

	MORN	DAY	EVE

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest ET AL FLETT N61	99	07	11
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akita Drilling LTD		
RIG MANAGER: DAVE Lauck	RIG NO. 58		
PROVINCE: N.W.T.	CAMP ☒ YES ☐ NO	RIG SAFETY DAYS: 1077	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	MOTOR	203	8.27
1	MONEL		9.31
1	TRANS SUB		1.90
1	FLOAT SUB		.81
1	SHOCK SUB		3.85
3	228 DC		27.20
1	JAR		5.77
5	228 DC		46.31
1	X/O		1.37
6	178 DC		57.09
1	X/O		1.41
3	HW		27.32
1	TBR		1.71
6	HW		54.62
	BHA:		247.44
69	D.P.	STANDS	
XX	D.P.	SINGLES	2009.30
STICK UP	KELLY DOWN		18.76
	TOTAL		2231
WT. OF DC	35000	1000 daN	
WT. OF STRING	93000	1000 daN	

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	155
TOTAL HOURS RUN	95½

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000 ↑ 10000 ↓
TORQUE AT BOTTOM 7500-8000 Nm
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1415	1405	1410
FUNNEL VIS. - (S/L)	86	82	82
W.L. (cm³)	11.5	11.5	11.5
pH	10.5	10.5	10.5
PVT m³	81.1	78.3	80.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Carinox	1 pail
Sodsulfite	1 sx
Barite	60 sx
Sulfamic Acid	6 sx
Gyp	2 sx
Caustic	1 sx
PST. Sulph	28 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2221	2231	10	35+ mtr	86/27
		MTR= 70		

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
choke 13200	152	80	152	80

REDUCED PUMP SPEED: choke 6200 @ 80 @ 2227m

DEVIATION SURVEY: Hemlo Pump 6300

DEPTH (m)	DEVIATION (°)	DIRECTION
2215.6	0.5	208.0

DRILLER SIGNATURE: Gary Patrick

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
00:00	04:00	4	2	Drill F/2221 m - 2227m ↓ ROTATE
04:00	04:15	¼	7	R/S, Function Upper Pipe Rams 6 sec c/s ✓ RSPP
04:15	07:00	2¾	2	Drill F/2227m - 2229.8m ↓ ROTATE
07:00	07:15	¼	10	Survey @ 2215.6 m
07:15	08:00	¾	2	Drill F/2229.8m - 2231m

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			105000 DAN		5636 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		☒
DERRICKMAN		Mike Watrich	8		☒
MOTORMAN		Wendell Bethel	8		☒
FLOORMAN		Lars Asak	8		☒
FLOORMAN		Larry STAWNICHY	8		☒
LEASEMAN		Jason Villeneuve	8		☒
Lease		EDward Landry	8		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	MTR	203	8.27
1	MONEL		9.31
1	TRANS SUB		1.90
1	FLOAT SUB		.81
1	SHOCK SUB		3.85
3	228 DC		27.20
1	JAR		5.77
5	228 DC		46.31
1	X/O		1.37
6	178 DC		57.09
1	X/O		1.41
3	HW		27.32
1	TBR		1.71
6	HW		54.62
	BHA:		247.44
69	D.P.	STANDS	
XX	D.P.	SINGLES	2002.32
STICK UP	KELLY DOWN		9.76
	TOTAL		2240
WT. OF DC	35000	1000 daN	
WT. OF STRING	93000	1000 daN	

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	164
TOTAL HOURS RUN	103¾

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 8000 ↑ 10000 ↓
TORQUE AT BOTTOM 7000 - 9000 Nm
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	08:00	12:00	15:00
DENSITY kg/m³	1415	1415	1420
FUNNEL VIS. - (S/L)	75	77	81
W.L. (cm³)	11.0	11.6	11.2
pH	10.5	10.5	10.5
PVT m³	75.0	75.7	75.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Carinox	2 Pails
Sodsulfite	2 sxs
Lime	1 sx
Barite	42 sxs
Alcaner	1 sx
Chemcide	1 Pail
STARPAK	2 sxs
BAROID	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
kig 2 cyc			

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2231	2240	9	35+ MTR	86/27
		MTR 70		

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
choke 13200	152	80	152	80

REDUCED PUMP SPEED: choke 6100 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2225.1	0.5	192.7

DRILLER SIGNATURE

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08:00	15:15	7¼	2	Drill 2231m - 2240m ↓ ROTATE
15:15	15:30	¼	10	Survey @ 2225.1m
15:30	16:00	½	2	Drill 2240m - 2240.8m ↓ ROTATE

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			112000 Can.		5564 kpa

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	12		☒
DERRICKMAN		Ned Melnyk	12		☒
MOTORMAN		Mike Guerin	12		☒
FLOORMAN		Wayne Chretien	12		☒
FLOORMAN		Adam Murray	12		☒
LEASEMAN		Morse Punch	12		☒
		Joe Rodh	12		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
1	MOTOR	203	8.27
1	MONEL		9.31
1	TRANS SUB		1.90
1	FLOAT SUB		.81
1	SHOCK SUB		3.85
3	228 DC		27.20
1	JAR		5.77
5	228 DC		46.31
1	X/O		1.37
6	178 DC		57.09
1	X/O		1.41
3	HW		27.32
1	TBR		1.71
6	HW		54.62
	BHA:		247.44
70	D.P.	STANDS	
X	D.P.	SINGLES	2021.69
STICK UP	KELLY DOWN		19.53
	TOTAL		2249.60
WT. OF DC	35000	1000 daN	
WT. OF STRING	94000	1000 daN	

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	173
TOTAL HOURS RUN	111

CUTTING STRUCTURE: T_i | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 9000 ↑ 6000 ↓
TORQUE AT BOTTOM 8000-9000 Nm
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1420	1420	1420
FUNNEL VIS. - (S/L)	84	86	80
W.L. (cm³)	10.6	10.8	10.8
pH	10.5	10.5	10.5
PVT m³	77.0	79.7	81.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Percol	1 sx
Lignite	2 sx
Caustic	
Sod Sulfite	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLG RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2240	2249	9	35+ MTR	45/27
		MTR=70		

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
choke 13500	152	80	152	80

REDUCED PUMP SPEED: choke 6000 @ 80 @ 2249m

DEVIATION SURVEY: Hemlo Pump 6100

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Gary Patrick

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
16:00	23:15	7¼	2	Drill 2240.8m - 2249m
23:15	23:30	¼	7	R/S Function Annular, 18 secs ✓ RSPP.
23:30	24:00	½	2	Drill F/2249m - 2249.6m

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor

118116

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
8			103000 DAN		5564 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	4		☒
DERRICKMAN		Mike Watrich	4		☒
MOTORMAN		Wendell Bethel	4		☒
FLOORMAN		Lars Asak	4		☒
FLOORMAN		Larry STAWNICHY	4		☒
LEASEMAN		Jason Villeneuve	4		☒
Lease		EDward Landry	4		☒
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118115

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ET AL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) HPS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	07	10

RIG NO. 58

FUEL @ 8:00

RIG 1.75 | BOILER

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	245	95.15	DP	77	127	XT 39	177			
	178	174.8	DC	58	178	5190	26	F-1000	Emsco	254
	127	74.3	HW	74	165	H/21F	10	F-1000	Emsco	254
	127	29.02	EB	108	165	11	306			
							138			

TIME-HRS

CODE NO.	1 OPER. RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG. SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
MORN.		7					1/4	1/2		1/4																
DAY		7 3/4								1/4																
EVE.		7 1/4					1/4			1/2																
TOTAL		22					1/4	1/2		1																

TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
8	NO. 2	Derrick Derrick	TMJ-75589			
	SCREENS CHANGED ☐ YES ☒ NO		AmJ-1799			
8	TOP 210	TOP 175				
8	MIDDLE	MIDDLE				
24	BOTTOM	BOTTOM	Accum oil - 41			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			0.30 m
1	MOTOR		8.27 m
1	MONEL		9.31 m
1	TRANS SUB		1.90 m
1	FLOAT SUB		.91 m
1	SHOCK SUB		3.85 m
3	228 DC		27.20 m
1	JAR		5.77 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.27 m
1	X10		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
		BHA =	247.44 m
68	D.P.	STANDS	1963.56 m
X	D.P.	SINGLES	2063.80 m
STICK UP KELLY DOWN			13.26 m
	TOTAL		2198 m
WT. OF DC		35000	1000 daN
WT. OF STRING		92000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	122
TOTAL HOURS RUN	73

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000 ↑ 10000 ↓
TORQUE AT BOTTOM 8000 - 10000 DAN
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1400	1400	1410
FUNNEL VIS. - (S/L)	108	90	90
W.L. (cm³)	12.5	12.5	10.5
pH	10.0	10.5	10.5
PVT m³	80.0	77.2	77.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sod Sulfite	2 sx
Lignite	4 sx
Desco	1 sx
Lime	2 sx
Barite	5 sx
Drispac	1 sx
Starpac	2 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2189	2198	9	35+ MTR	25/27
		MTR = 70		25/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
Choke 12900	152	80	152	80

REDUCED PUMP SPEED

Choke 6300 @ 219 1m @ 80

Maximum Pump 6400

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2177.0	1.6	197.9

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:00	1	2	Drill F/2189m - 2191m < Rotate.
01:00	01:15	1/4	7	RIS, Function Annular, 18 secds, √RSPP
01:15	01:45	1/2	2	Drill F/2191m - 2192m
01:45	02:00	1/4	10	Survey @ 2177.0
02:00	03:30	1 1/2	2	Drill F/2192m - 2193m < Slide.
03:30	04:00	1/2	8	Work on Pump
04:00	08:00	4	2	Drill F/2193m - 2198m
				Pump #2 - Changed 1 S.W. Head.

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			110000 DAN		5708 KPA

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			0.30 m
1	MTR		8.27 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.91 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	JAR		5.77 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.27 m
1	X10		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
		BHA =	247.44 m
68	D.P.	STANDS	1963.56 m
X	D.P.	SINGLES	2063.80 m
STICK UP KELLY DOWN			9.41 m
	TOTAL		2221.00 m
WT. OF DC		35000	1000 daN
WT. OF STRING		92000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	134
TOTAL HOURS RUN	80 3/4

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000 ↑ 10000 ↓
TORQUE AT BOTTOM 8000 - 8500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1410	1410	1400
FUNNEL VIS. - (S/L)	91	96	92
W.L. (cm³)	10.8	12.0	11.8
pH	10.4	10.4	10.3
PVT m³	76.5	80.4	78.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	2 Pails
Sod sulfite	2 sxs
Lig	4 sxs
Desco	1 sx
Lime	1 sx
Barite	120 sxs
Alkemar	1 sx
Starpak	2 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1040	1140	1920
Barite Recovered			
2	1410	1240	2340

DAY TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2198	2210	12	35+ MTR	25/27
		MTR 70		24/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
Choke 13200	152	80	152	80

REDUCED PUMP SPEED

Choke 6300 @ 80 @

Maximum Pump 6600

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2196.6	1.2	203.2

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	09:45	1 3/4	2	Drill 2198m - 2201.6m < Rotate
09:45	10:00	1/4	10	Survey @ 2186.6
10:00	16:00	6	2	Drill 2201.6m - 2210m < Rotate
				Held Competency Training meeting on Confined Space

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			110,000 DAN	Policy # 86084	5708 Kpa

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			0.30 m
1	MOTOR		8.27 m
1	MONEL		9.31 m
1	TRANS SUB		1.90 m
1	FLOAT SUB		.91 m
1	SHOCK SUB		3.85 m
3	228 DC		27.20 m
1	JAR		5.77 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.27 m
1	X10		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
		BHA =	247.44 m
69	D.P.	STANDS	1982.97 m
	D.P.	SINGLES	m
STICK UP KELLY DOWN			9.41 m
	TOTAL		2221.00 m
WT. OF DC		35000	1000 daN
WT. OF STRING		92000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	145
TOTAL HOURS RUN	88

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000 ↑ 10000 ↓
TORQUE AT BOTTOM 8000 - 8500 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	16:00	21:00	24:00
DENSITY kg/m³	1405	1410	1420
FUNNEL VIS. - (S/L)	86	87	95
W.L. (cm³)	11.0	11.0	10.3
pH	10.3	10.3	11.0
PVT m³	74.8	77.7	79.7

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispac	1 sx
Gyp	2 sx
Lime	2 sx
Cor. nox	1 pail
Sod Sulfite	1 sx
Barite	120 sx
Lignite	2 sx
Pot Sulfate	56 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2210	2221	11	35+ MTR	25/27
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
Choke 13200	152	80	152	80

REDUCED PUMP SPEED

Choke 6200 @ @ 80

Maximum Pump 6900

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2196.3	0.8	206.3
2205.8	0.6	206.6

DRILLER SIGNATURE

Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:15	1/4	2	Drill 2210m - 2210.8m < Rotate
16:15	16:30	1/4	7	RS Function BTm Pipe Rams 6 sec
16:30	17:15	3/4	2	Drill 2210.8m - 2211.3m < Rotate
17:15	17:30	1/4	10	Survey @ 2196.3
17:30	23:30	6	2	Drill 2211m - 2220.8m - Rotate
23:30	23:45	1/4	10	Survey @ 2205.8m
23:45	24:00	1/4	2	Drill F/2220.8m - 2221m < Rotate.

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

118115

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105,000 DAN		5564 KPA

REVISED MARCH 1996

118115

FAX / RIG MANAGER

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

N/

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest ETAL Flett N61	99	07	10

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: DAVE Lauck | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1076

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	8		
DERRICKMAN		Mike Watrich	8		
MOTORMAN		Wendell Bethel	8		
FLOORMAN		Lars Asak	8		
FLOORMAN		Larry Stownichy	8		
LEASEMAN		Jason Villeneuve	8		
Lease		Edward Landry	8		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	12		
DERRICKMAN		Ned Melnyk	12		
MOTORMAN		Mike Guerin	12		
FLOORMAN		Wayne Chretien	12		
FLOORMAN		Adam Murray	12		
LEASEMAN		Morse Punch	12		
Lease		Joe Rodh	12		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	4		
DERRICKMAN		Mike Watrich	4		
MOTORMAN		Wendell Bethel	4		
FLOORMAN		Lars Asak	4		
FLOORMAN		Larry Stownichy	4		
LEASEMAN		Jason Villeneuve	4		
Lease		Edward Landry	4		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118114

LICENCE NO.:	WELL NAME AND NO.:
1863	Canadian Forest ET AL FLETT N61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	Akita Drilling LTD
SURFACE LOCATION:	**UNIQUE ID:**
N61:6040-12330	300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**
[signature] AMR	Dave Lauck

DAILY CHECKS — OPR. Initial / R.M. Initial

(1) Daily Walk Around Inspection — WR / DL
(2) Detailed Inspection-Weekly (using checklist) — WR / DL
(3) HFS Signs Posted (if required) — WR / DL
(4) Well License & Stick Diagram Posted — WR / DL
(5) Flare Lines Staked — WR / DL
(6) BOP Drills Performed — WR / DL
(7) Visually Inspect BOP's - Flarelines & Separator Lines — WR / DL

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial DL
(5) Motor Kills checked — Initial

YEAR	MONTH	DAY
99	07	09

RIG NO. 58

FUEL @ 8:00

RIG .69 BOILER

WEATHER

	°C
TEMPERATURE	
CURRENT CONDITIONS	
WIND DIRECTION	
ROAD	

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12
TUBING OR LINER									

	DC/DP SIZE	LINEAR MASS	GRADE	MIN. ID	TOOL JT O.D.	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	228	214.5	DC	71	279	SH90	26	F-1000	EMSCO	254
2	178	174.8	DC	58	178	SH90	26	F-1000	EMSCO	254
3	127	74.3	HW	74	165	4½IF	10			
4	127	29.02	DP	108	165	11	138			

REVISED MARCH 1996

118114

FAX / RIG MANAGER

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

TIME-HRS	CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	OPER.																										
	MORN.		7¼					¼			½																
	DAY		7½					¼			¼																
	EVE.		7¼				½				¼																
	TOTAL		22				½	½			1																

TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
8	NO. 1 TYPE: Derrick	Derrick	T mT-75333			
8	SCREENS CHANGED ☒ YES ☐ NO		AmT-1543			
8	TOP 210	TOP 175				
8	MIDDLE	MIDDLE 175				
24	BOTTOM	BOTTOM 175	Accum Oil - 40			

WELL NAME & NO.	YEAR	MONTH	DAY
Canadian Forest ET AL FLETT N61	99	07	09
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akita Drilling LTD		
RIG MANAGER: DAVe Lauck	RIG NO.: 58		
PROVINCE: N.W.T.	CAMP ☒ YES ☐ NO	RIG SAFETY DAYS: 1075	

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MOTOR		8.27 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	XO		1.37 m
6	178 DC		57.99 m
1	XO		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
		BHA=	247.44 m
67	D.P.	STANDS	1925.15 m
—	D.P.	SINGLES	— m
Stickup KELLY DOWN			6.59 m
	TOTAL		2166 m
WT. OF DC		35000	1000 daN
WT. OF STRING		91000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	90
TOTAL HOURS RUN	51¼

CUTTING STRUCTURE: T | T₀ | % | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓
TORQUE AT BOTTOM 8000-12000 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	02:00	04:00	06:00
DENSITY kg/m³	1385	1385	1395
FUNNEL VIS. - (S/L)	88	88	88
W.L. (cm³)	11.0	11.0	11.3
pH	10.5	10.5	10.5
PVTm³	104.4	70.6	72.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lignite	4 SX
PotSulfate	28 SX
SodSulfite	1 SX
Corinox	1 pail
BARite	60 SX
Lime	2 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D / RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2150	2166	16	35+ MTR	25/27
		MTR	70	23/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13000	152	80	152	80

REDUCED PUMP SPEED: Choke 6200 @ 80 @ 2153m; main Ford 6300

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2138.6	1.7	136.6
2148.0	1.5	165.6

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:15	1¼	2	Drill F/2150m-2153m <Rotate
01:15	01:30	¼	7	RIS Function Bottom Pipe Rams 6 secs √RSPP
01:30	01:45	¼	2	Drill F/2153m-2153.6m <Rotate
01:45	02:00	¼	10	Survey @ 2138.6m
02:00	06:30	4½	2	Drill F/2153.6m-2163m <Slide 3m Rotate 6
06:30	06:45	¼	10	Survey @ 2148.0m
06:45	08:00	1¼	2	Drill F/2163m-2166m

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor. Held Safety meeting with Crew

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000 DAN	Confined Space	5744 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bet'The L	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		Larry STAwnichy	8		LS
LEASEMAN		Jason Villeneuve	8		JV
Lease		EDward Landry	8		ES
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MTR		8.27 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jars		5.77 m
5	228 DC		46.31 m
1	XO		1.37 m
6	178 DC		57.99 m
1	XO		1.41 m
3	HWDP		27.32 m
1	TBR		1.71 m
6	HWDP		54.62 m
		BHA=	247.44 m
67	D.P.	STANDS	m
XX	D.P.	SINGLES	1944.44 m
Stickup KELLY DOWN			12.58 m
	TOTAL		2179 m
WT. OF DC		35000	1000 daN
WT. OF STRING		91000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	103
TOTAL HOURS RUN	58¾

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓
TORQUE AT BOTTOM 8000-10000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	09:00	12:00	15:00
DENSITY kg/m³	1395	1395	1400
FUNNEL VIS. - (S/L)	92	86	87
W.L. (cm³)	10.2	11.6	11.4
pH	11.2	10.6	10.5
PVTm³	73.0	74.5	75.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	2 Pails
SodSulfite	2 SXS
Citronella	1 Pail
Alkaline	1 SX
Barite	197 SXS
STARPOL	2 SXS
Caustic	1 SX
Lig	2 SXS

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D / RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2166	2179	13	35+ MTR	25/27
		MTR	70	23/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13700	152	80	152	80

REDUCED PUMP SPEED: 6000 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2157.6	1.6	186.9

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:15	3¼	2	Drill 2166m-2172m <Rotate
11:15	11:30	¼	7	R/S Function Top Pipe Rams 6 sec √RSPP
11:30	11:45	¼	2	Drill 2172m-2172.6 <Rotate
11:45	12:00	¼	10	Survey @ 2157.6
12:00	16:00	4	2	Drill 2172.6m-2179m <Rotate

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			110000 DAN		5706 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	12		CS
DERRICKMAN		Ned Melnyk	12		NM
MOTORMAN		Mike Guerin	12		MG
FLOORMAN		Wayne Chretien	12		WC
FLOORMAN		Adam Murray	12		AM
LEASEMAN		Moise Punch	12		MP
Lease		Joe Kodh	12		JK
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MOTOR		8.27 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.30 m
1	Jar		5.77 m
5	228 DC		46.31 m
1	XO		1.37 m
6	178 DC		57.99 m
1	XO		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
		BHA=	247.44 m
67	D.P.	STANDS	m
XX	D.P.	SINGLES	1944.44 m
Stickup KELLY DOWN			2.38 m
	TOTAL		2189.60 m
WT. OF DC		35000	1000 daN
WT. OF STRING		92000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	113
TOTAL HOURS RUN	66

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓
TORQUE AT BOTTOM 8000-10000 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED			
TIME	18:00	21:00	24:00
DENSITY kg/m³	1405	1400	1400
FUNNEL VIS. - (S/L)	87	90	94
W.L. (cm³)	12.0	13.5	12.5
pH	10.4	10.5	10.5
PVTm³	77.1	78.8	79.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Desco	1 SX

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'D / RM'R CORE'D	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2179	2189	10	35+ MTR	25/27
		MTR	70	23/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13300	152	80	152	80

REDUCED PUMP SPEED: Choke 6300 @ 80 @; main Ford 6300

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2167.3	1.7	193.8

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	18:00	2	2	Drill 2179m-2182.2 <Rotate
18:00	18:15	¼	10	Survey @ 2167.3
18:15	19:15	1	2	Drill 2182.2-2183.4m <Slide
19:15	19:45	½	8	Work on Pump #2
19:45	24:00	4¼	2	Drill F/2183.4m-2189.6 <Slide 3m, Rot 3m
				Pump #2 - Changed 1 National Seat and valve

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor. 118114

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			110000 DAN		5709 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	4		GP
DERRICKMAN		Mike Watrich	4		MW
MOTORMAN		Wendell Bet'The L	4		WB
FLOORMAN		Lars Asak	4		LA
FLOORMAN		Larry STAwnichy	4		LS
LEASEMAN		Jason Villeneuve	4		JV
Lease		EDward Landry	4		ES
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118113

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest ETAL FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (Legal Checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Slick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 19 99 | MONTH 07 | DAY 08
RIG NO.: 58
FUEL @ 8:00
RIG 1.06 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	203.2	153.5	DC	76.2	254	6 5/8 REG	6			
	178	134.8	DC	50	178	SH90	26	F-1000	Emsco	254
	127	74.9	HW	74	165	H4 1/2 IF	10	F-1000	Emsco	254
	127	29.02	DP	108	165	"	138			

REVISED MARCH 1996

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APPROVAL PENDING

118113

FAX / RIG MANAGER

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest ETAL FLETT N61 | YEAR 99 | MONTH 07 | DAY 08
OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD
RIG MANAGER: DAve Lauck | RIG NO.: 58
PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1074

TIME-HRS

	CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.				6 3/4					1/4	1/2		1/2														
DAY				8 3/4					1/4	1		1/4														
EVE.				7 3/4								1/4														
TOTAL				23					1/2	1 1/2		1														

E-T Lwp

TOTALS

	SHALE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
8	NO. 1 Derrick Derrick	TMJ = 75059			
8	SCREENS CHANGED ☐ YES ☒ NO	AMJ = 1269			
8	TOP 210 TOP 175				
24	MIDDLE MIDDLE				
	BOTTOM BOTTOM	Accum oil = .40			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	motor	8.30	8.07 m
1	monel		9.31 m
1	Trans Sub		1.50 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.17 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.34 m
1	X10		1.41 m
2 1	HW X10		27.32 m 1.71 m
6	HW		54.62 m
	BHA=247.44		m
65	D.P. STANDS		m
XX	D.P. SINGLES		887.51 m
Stick up KELLY DOWN			8.95 m
	TOTAL		2186 m
WT. OF DC		35000	1000 daN
WT. OF STRING		89000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	50
TOTAL HOURS RUN	29 3/4

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 7000 ↑ 10000 ↓
TORQUE AT BOTTOM 8000-10000 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	02:00	04:00	06:00
DENSITY kg/m³	1400	1400	1390
FUNNEL VIS. - (S/L)	98	110	120
W.L. (cm³)	10.5	10.5	10.5
pH	10.5	10.5	10.5
PVT m³	97.5	94.8	94.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 Pail
Sod Sulfite	2 sx
Lime	2 sx
Defoamer	1 Pail
Gypsum	2 sx s
Sulfamic	1 sx
Percol 728	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY | OVERFLOW DENSITY | UNDERFLOW DENSITY

METRES DRILLED

FROM	TO	DRO RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2112	2126	14	35± mtr 70	25/27 33/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13000	152	80	152	80

Choke REDUCED PUMP SPEED 6200 @ 2115m @ 80

Manifold 6300

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2101.1	1.7	105.2
2110.4	1.9	110.9

DRILLER SIGNATURE: Gary Patrick

MORNING TOUR

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
00:00	01:45	1 3/4	2	Drill F/2112 m - 2115m ROTATE
01:45	02:00	1/4	7	RIS, Function Annular, 18 sec cls, VRSTP.
02:00	02:15	1/4	2	Drill F/2115m - 2116m Rotate
02:15	02:30	1/4	10	Survey @ 2101.1m
02:30	06:45	4 1/4	2	Drill F/2116m - 2125.4m <ROTATE
06:45	07:00	1/4	10	Survey @ 2110.4m
07:00	07:30	1/2	2	Drill F/2125.4m - 2126m <Slide 1m
07:30	08:00	1/2	8	Circ. & Work on #1 Pump

NOTES: √Crown Saver, Fastline Clamp Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			110000 DAN.		5708 KPA

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	8		
DERRICKMAN		Mike Watrich	8		
MOTORMAN		Wendell Bethel	8		
FLOORMAN		Lars Asak	8		
FLOORMAN		Harry Stawnichy	8		
LEASEMAN		Jason Villeneuve	8		
Lease		EDword Landry	8		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR	8.30	8.07 m
1	Monel		9.31 m
1	Trans Sub		1.50 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.17 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.34 m
1	X10		1.41 m
2 1	HW TBR		27.32 m 1.71 m
6	HW		54.62 m
	BHA		247.44 m
66	D.P. STANDS		m
X	D.P. SINGLES		1906.12 m
Stick up KELLY DOWN			17.56 m
	TOTAL		2136 m
WT. OF DC		35000	1000 daN
WT. OF STRING		90000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	60
TOTAL HOURS RUN	36 3/4

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10-13000 ↑ 10000 ↓
TORQUE AT BOTTOM 6500 - 11500 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	1530
DENSITY kg/m³	1390	1390	1390
FUNNEL VIS. - (S/L)	116	95	94
W.L. (cm³)	10.0	11.2	11.6
pH	10.5	10.4	10.3
PVT m³	97.1	98.7	95.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Sod Sulfite	2 sxs
Corinox	2 Pail
Potass.	28 sxs
STARPAK	2 sxs
Drispac	1 sx
Alkemic	1 sx
Chemicide	1 Pail
Desco	2 sxs

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY | OVERFLOW DENSITY | UNDERFLOW DENSITY

METRES DRILLED

FROM	TO	DRO RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2126	2136	10	35± mtr 70	25/27 33/37

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
12800	152	80	152	80

Choke REDUCED PUMP SPEED 6200 @ 80 @ 2134m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2120.0	1.6	129.6

DRILLER SIGNATURE

DAY TOUR

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08:00	13:30	5 1/2	2	Drill 2126 m - 2134.5m <Slide 4m
13:30	13:45	1/4	7	RIS Function Remote Choke √RSPP
13:45	14:00	1/4	2	Drill 2134.5m - 2135m <Rotate
14:00	14:15	1/4	10	Survey @ 2120.0
14:15	15:15	1	8	Circ. & Work on #1 Pump
15:15	16:00	3/4	2	Drill 2135m - 2136m <Rotate

#1 Pump: New Mission head & liner, 2 liner gaskets
#1 Pump: New Disc. seat, valve & suction valve

NOTES: √Crown Saver Fastline Clamp, Deadline Anchor
National Energy Board Checked, K19 & Camp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			113000 Dan.		5780 kpa

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Allan Lickoch	12		
DERRICKMAN		Ned Melnyk	12		
MOTORMAN		Mike Guerin	12		
FLOORMAN		Wayne Chretien	12		
FLOORMAN		Adam Murray	12		
LEASEMAN		Moise Punch	12		
lease	634 458 400	Joe Rodh	12		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR	8.30	8.07 m
1	MONEL		9.31 m
1	Trans Sub		1.50 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jar		5.17 m
5	228 DC		46.31 m
1	X10		1.37 m
6	178 DC		57.34 m
1	X10		1.41 m
3 1	HW TBR		27.32 m 1.71 m
6	HW		54.62 m
	BHA		247.44 m
66	D.P. STANDS		m
X	D.P. SINGLES		1906.12 m
Stick up KELLY DOWN			2.76 m
	TOTAL		2150.80 m
WT. OF DC		35000	1000 daN
WT. OF STRING		90000	1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3X15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	74
TOTAL HOURS RUN	44

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000 ↑ 10000 ↓
TORQUE AT BOTTOM 7500 - 12000 NM
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	24:00
DENSITY kg/m³	1375	1380	1395
FUNNEL VIS. - (S/L)	104	110	90
W.L. (cm³)	11.0	11.0	11.5
pH	10.3	10.5	10.5
PVT m³	96.8	104.0	106.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 Pail
Sod Sulfite	1 sx
Lime	2 sx
Lignite	4 sx
Desco	1 sx
Barite	120 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY | OVERFLOW DENSITY | UNDERFLOW DENSITY

METRES DRILLED

FROM	TO	DRO RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2136	2150	14	35± mtr 70	25/27 33/37

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13000	152	80	152	80

Choke REDUCED PUMP SPEED 6200 @ 80 @

Manifold 6300

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2139.1	1.7	122.8

DRILLER SIGNATURE: Gary Patrick

EVENING TOUR

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
16:00	20:00	4	2	Drill 2136m - 2144m <Rotate
20:00	20:15	1/4	10	Survey @ 2139.1m
20:15	24:00	3 3/4	2	Drill F/2144m - 2150.8 m <Slide 3m, Rotate 3m

Held environmental meeting with crew.

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.
√Flare Igniters, Greased Crown & Blocks. 118113

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000 DAN	waste Minimization recycling Techniques	5852 KPA

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	4		
DERRICKMAN		Mike Watrich	4		
MOTORMAN		Wendell Bethel	4		
FLOORMAN		Lars Asak	4		
FLOORMAN		Harry Stawnichy	4		
LEASEMAN		Jason Villeneuve	4		
Lease		EDword Landry	4		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118112

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: Wayne Hall | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H'S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flaretines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 07 | DAY 07
RIG NO. 58
FUEL @ 8:00
RIG 143 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	508	487.7	139.8	BT&C	K55	15	185.19		184
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	203.2	177.5	D-E	76.2	228.6	7 5/8 H90	11			
	178	174.8	D-E	58	178	5 1/2 H90	26	F-1000	Emsco	254
	127	74.3	H-W	108	165	4 1/2 IF	10	F-1000	Emsco	254
		39.02	D-E	108			138			

TIME-HRS

CODE NO.	1 OPER.	2 RIG UP & TEAR DOWN	3 DRILL ACTUAL	4 REAMING	5 CORING	6 COND. MUD & CIRC.	7 TRIPS	8 RIG SERVICE	9 REPAIR RIG	10 CUT OFF DRILL LINE	11 DEV. SURVEY	12 WIRE LINE LOGS	13 RUN CASE & CEMENT	14 WAIT ON CEMENT	15 NIPPLE UP B.O.P.	16 TEST B.O.P.	17 DRILL STEM TEST	18 PLUG BACK	19 SQUEEZE CEMENT	20 FISHING	21 DIR. WORK	22 SAFETY MTG.	23	24	25	26
MORN.			6 3/4					1/4	3/4		1/4											BOP Drill	Change Screens			
DAY			7 3/4					1/4																	
EVE.			6 3/4								1/4										1/2		1/4	1/4		
TOTAL			21 1/4				1/2	3/4			1/2										1/4		1/4			

TOTALS

	SHALE SHAKER(S)	RENTALS/SERVICES
3	NO. 1 TYPE Derrick	TMT-74854
0	SCREENS CHANGED ☐ YES ☐ NO	AMT-1064
8	TOP 210 / TOP 175	
8	MIDDLE / MIDDLE 175	
24	BOTTOM / BOTTOM 110	Acc. Oil 40

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		8.27 m
1	monel		9.31 m
1	Trans Sub		1.30 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 D.C.		27.20 m
1	Jars		5.77 m
5	228 D.C.		46.31 m
6	178 D.C.		57.39 m
1	X-10		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	347.44 m
64	D.P.	STANDS	m
X	D.P.	SINGLES	1849.63 m
Stick Up	KELLY DOWN		m
	TOTAL		m
WT. OF DC			35000 1000 daN
WT. OF STRING			64000 1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	12
TOTAL HOURS RUN	8 1/2

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000# 10000#
TORQUE AT BOTTOM 6000-12000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	1:00	4:00	06:00
DENSITY kg/m³	1410	1400	1405
FUNNEL VIS. - (S/L)	83	77	91
W.L. (cm³)	12.8	12.3	11.8
pH	10.3	10.2	10.5
PVT	92.1	93.5	95.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Alcomer 110	1 sac
Lime	2 sx
Corinox	1 pail
Sod. Sul.	1 sac
Pot. Sul.	28 sx
Desco	1 sac
Lignite	2 sx
Driscal	1 sac

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2079	2088	9	35	24/27
		MTR	70	32/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13300	152	80	152	80

REDUCED PUMP SPEED: Choke 6800 @ 80 @ manifold 6800

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:45	1 3/4	2	Slide F/2079m - 2081.3m
01:45	02:30	3/4	8	Work on #2 pump
02:30	02:45	1/4	7	Rig Service, Function Bot pipe 85sec
02:45			2	Slide F/2081.3 - 2083.2m 34-36 WOB
	07:15	4 1/2	2	Rotate F/2083.2 - 2087.6 35RPM 34-36 WOB
07:15	07:30	1/4	10	Survey @ 2072.6m
07:30	08:00	1/2	2	Drill F/2087.6 - 2088.6m Slide.
				Change seats Value #2 Pump - Reed American

NOTES: √Crown Saver, deadline anchor, fastline clamp. Held Safety Meeting W/Crew

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			115000	Work on Pumps	5708

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		8.27 m
1	monel		9.31 m
1	Trans Sub		1.30 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jars		5.77 m
5	228 DC		46.31 m
6	178 DC		57.39 m
1	X10		1.41 m
3	HW		27.32 m
1	X10		1.71 m
6	H.W.		54.62 m
		BHA	347.44 m
65	D.P.	STANDS	1868.56 m
	D.P.	SINGLES	m
Stick Up	KELLY DOWN		17.00 m
	TOTAL		2089 m
WT. OF DC			35000 1000 daN
WT. OF STRING			88000 1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	23
TOTAL HOURS RUN	15 1/4

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	08:20	12:00	15:00
DENSITY kg/m³	1400	1400	1400
FUNNEL VIS. - (S/L)	98	110	92
W.L. (cm³)	12.0	11.5	12.5
pH	10.5	10.5	10.5
PVT m³	95.6	93.0	90.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Starpac	2 sx
Chemride	1 pail
H2O	12 m³
Corinox	1 pail
Sod. Sulfite	1 sx
Pot sulfate	28 sx
Lime	1 sx
Alcomer 110	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1400	1170	1540

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
2	1405	1120	1490

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2088	2099	11	35 ±	25/27
		MTR	70	32/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13000	152	80	152	80

REDUCED PUMP SPEED: Choke 6200 @ 80 @ 80% manifold 6380

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2082.0	1.8	69.4

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	13:15	5 1/4	2	Drill F/2088.6m - 2096m Slide 3m ROT 5
13:15	13:30	1/4	7	R/S, Function Upper Pipe Rams 6 secs/Ram
13:30	16:00	2 1/2	2	Drill F/2096m - 2099m < Slide
				Changed in Pump # 1 - 1 Pony Rod, 1 Imission Head, 1 Liner, 1 National Valve 1 Reed American Valve, 2 Pony Rod Seals, 2 liner seals

NOTES: √Crown Saver, FastLine Clamp, Deadline Anchor - FLARE LINE IGNITOR

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			110000 DAN		5708 KPA

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		8.27 m
1	monel		9.31 m
1	Trans Sub		1.30 m
1	Float Sub		.81 m
1	Shock Sub		3.85 m
3	228 DC		27.20 m
1	Jars		5.77 m
5	228 DC		46.31 m
6	178 DC		57.39 m
1	X10		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	347.44 m
65	D.P.	STANDS	1868.56 m
—	D.P.	SINGLES	— m
Stick Up	KELLY DOWN		4.00 m
	TOTAL		2112.00 m
WT. OF DC			35000 1000 daN
WT. OF STRING			92000 1000 daN

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	36
TOTAL HOURS RUN	23

CUTTING STRUCTURE: T1 | T2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10-15000# MAX 20000#
TORQUE AT BOTTOM 7000 - 11000 Nm
FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	18:00	21:00	23:00
DENSITY kg/m³	1405	1400	1400
FUNNEL VIS. - (S/L)	97	87	90
W.L. (cm³)	12.6	11.2	10.3
pH	10.5	10.6	10.6
PVT m³	91.4	94.6	96.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
STARPAC	2 sx
Desco	1 sx
Soda Ash	1 sx
Corinox	1 pail
Lime	2 sx
Pot Sulfate	28 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2099	2112	13	35 ±	23/27
		MTR	70	32/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
15200	152	80	152	80

REDUCED PUMP SPEED: 6100 @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2091.6	1.7	57.5

DRILLER SIGNATURE: Allan Lickoch

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:15	1/4	2	Drill 2099m - 2100.1m < Slide
16:15	16:45	1/2	20	Shut Down Tool Issues ON MWD Tool
16:45	19:15	2 1/2	2	Drill 2100.1m - 2104m < Rotate
19:15	19:30	1/4	22	BOP Drill While Drilling Secure in 70 Sec.
19:30	20:30	1	2	Drill 2104m - 2106.5 < Rotate
20:30	20:45	1/4	10	Survey @ 2091.6
20:45	23:30	2 3/4	2	Drill 2106.5 - 2111.3 < Slide 2m, ROT 3m
23:30	23:45	1/4	29	Change Shaker Screens
23:45	24:00	1/4	2	Drill F/2111.3m - 2112m Rotate

NOTES: √Crown Saver, FastLine Clamp, Deadline Anchor

118112

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			110000 DAN		5708 KPA

REVISED MARCH 1996

118112

FAX / RIG MANAGER

APPROVED COPYRIGHT 1977 JANUARY — APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N61 | YEAR 99 | MONTH 07 | DAY 07
OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.
RIG MANAGER: Dave Lauck | RIG NO. 58
PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1073

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Ron Swiscoski	8		RS
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Alphonse Ulliac	8		AU
LEASEMAN		Lawrence Loreen	8		LL
Lease		Jason Villeneuve	8		JV
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR 08:00 TO 16:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	8		GP
DERRICKMAN		Mike Watrich	8		MW
MOTORMAN		Wendell Bethell	8		WB
FLOORMAN		Lars Asak	8		LA
FLOORMAN		Larry Stawnichy	8		LS
LEASEMAN		EDWard Landry	8		EL
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR 16:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Allan Lickoch	8		AL
DERRICKMAN		Ned Melnyk	8		NM
MOTORMAN		Mike Guerin	8		MG
FLOORMAN		Wayne Chretien	8		WC
FLOORMAN		Adam Murray	8		AM
LEASEMAN		Moise Punch	8		MP
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

Rec'd 7-13

FOLD HERE →

118111

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial DZ / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) HS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flareless & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial / Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial / Initial
(3) Mast Inspection Before Raising or Lowering — Initial / Initial DZ
(4) Crown Saver Checked — Initial / Initial
(5) Motor Kills checked — Initial / Initial

YEAR 99 | MONTH 07 | DAY 06
RIG NO. 58
FUEL @ 8:00
RIG 168 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	508	487.7	139.8	BT&C	K55	15	185.19		184
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
254.0	240.0	754	178.5	330.2	HWDP	12			
177.8	174.8	S-135	178.5	330.2	D.C	26	F-1000	Emsco	254
127	74.3	754	76.2	165.1	H-W	10	F-1000	Emsco	254
↓	29.03	S-135	↓	146.1 IF	OPT.	306			
						138			

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						Handle Tool	BOP Drill	TEST MWD		
MORN.		3	1/4		1 1/2	3 3/4	1/4	1/2		1/4																
DAY						5							3													
EVE.		1 3/4	1 3/4			3 3/4	1/4		3/4	1/4													1/4	1/4		
TOTAL		4 3/4	2		1/2	11	1/2	1/2	3/4	1/2			3										1/4	1/4		

TOTALS

SHALE SHAKER(S): NO. 8 | TYPE Derrick
SCREENS CHANGED ☐ YES ☑ NO
TOP 210 | TOP 175
MIDDLE 8 | MIDDLE 75
BOTTOM 24 | BOTTOM 110

RENTALS/SERVICES: TMS 687 | AMJ 74477 | Acc. Oil 40

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	BIT		0.30
1	mtr		8.02
1	monel		9.31
1	Trans sub		1.90
1	shock sub		3.87
3	228 D.C.		27.20
1	Jars		5.37
5	228 D.C.		46.31
1	X/O		1.37
6	178 D.C.		57.29
1	X/O		1.41
3	H.W.		27.32
1	TBR		1.71
6	H.W.		54.62
		BHA	246.09
64	D.P.	STANDS	
X	D.P.	SINGLES	1849.63
	KELLYDOWN		19.63
	TOTAL		2076

WT. OF DC 35000 (1000 daN)
WT. OF STRING 86000 (1000 daN)

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	2076
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	192
TOTAL HOURS RUN	11.5

CUTTING STRUCTURE: T_1 | T_2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓
TORQUE AT BOTTOM 4000 - 13000 NM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	1:30	4:00
DENSITY kg/m³	1395	1405
FUNNEL VIS. - (S/L)	83	87
W.L. (cm³)	12.1	
pH	10.4	10.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	171 sx
Pot Sul	66 sx
Lime	1 sac
Carbonox	1 pail
Sod Sul.	2 sx.
Driscal	1 sac
Starpac	2 sx
H20	9 m³

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2073	2076	3	35	15/36
		MTR	70	25/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13400	152	80	152	80

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2060.7	2.6	65.4

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:15	1 1/4	2	Rotate F/2073.1 - 2075.7 25-36 WOB 35 RPM
01:15	01:30	1/4	7	Rig Service, funtion Top pipe 8sec
01:30	01:45	1/4	10	Survey @ 2060.7
01:45	03:15	1 1/2	2	Slide F/2075.7 - 2076.5m WOB 20-24
03:15	03:45	1/2	8	Change head in #1 Pump
03:45	04:00	1/4	2	Slide F/2076.5m - (Attempt to Slide)
04:00	04:30	1/2	5	Circulate & mix pill
04:30	05:00	1/2	6	POOH to 1990
05:00	05:15	1/4	3	Break circ & ream F/1990 - 1960 ↑↓ x 3
05:15	08:00	2 3/4	6	Pump pill POOH. 5 STDS POOH P.O.H
				25 STDS P.O.H

NOTES: Crown Saver, deadline anchor, fastline clamp, Function Remote choke 19sec

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000		5708

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	BIT		0.30
1	motor		8.87
1	monel		9.31
1	Trans sub		1.90
1	Float sub		.81
1	Shock sub		3.85
3	228 DC		27.20
1	Jar		5.77
5	228 DC		46.31
1	X/O		1.37
6	178 DC		57.29
1	X/O		1.41
3	H.W.		27.32
1	TBR		1.71
6	H.W.		54.62
		BHA	247.44
64	D.P.	STANDS	
X	D.P.	SINGLES	1849.63
	KELLYDOWN		18.07
	TOTAL		2076

WT. OF DC 35000 (1000 daN)
WT. OF STRING 86000 (1000 daN)

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	EHP53A
TYPE	MM9062
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	2076
TOTAL METRES DRILLED (m)	
TOTAL HOURS RUN	

CUTTING STRUCTURE: T_1 | T_2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

TIME	Trip Rec	
DENSITY kg/m³	meas 1514	
FUNNEL VIS. - (S/L)	conv 13.14	
W.L. (cm³)	Diff 2.30	
pH		

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2076				

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
	152		152	

REDUCED PUMP SPEED: @ | @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:45	3 3/4	6	POOH. Flow ✓ @ H.W., OUT OF Hole, Minimum
11:45			22	Break Bit, Lay Down Tools, Function Blind Rams
				Pick up new motor, make up Bit, make up MWD
	14:45	3	22	Orient Tool
14:45	15:		6	RIH Flow ✓ R.I.H., Flow ✓ @ H.W. 10 min
	16:00	1 1/4	6	Continue R.I.H.
				Lay Down Jars SN# 10156
				Shock Sub SN# 31634
				Bent motor SN# 96065
				Picked up: motor SN# 96041
				Shock sub SN# 10789
				Jar SN# 10882

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0				BOP Drill	

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH m
	BIT		0.30
1	mtr		8.87
1	monel		9.31
1	Trans sub		1.90
1	Float sub		.81
1	Shock Sub		3.85
3	228 D.C.		27.20
1	Jars		5.77
5	228 DC		46.31
1	X/O		1.37
6	178 D.C.		57.29
1	X/O		1.41
3	H.W.		27.32
1	TBR		1.71
6	H.W.		54.62
		BHA	247.44
64	D.P.	STANDS	
X	D.P.	SINGLES	1849.63
	KELLYDOWN		18.07
	TOTAL		2079

WT. OF DC 35000 (1000 daN)
WT. OF STRING 87000 (1000 daN)

BIT RECORD

BIT NO.	18
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9062
JETS (mm)	3x15.9
DEPTH OUT (m)	2076
DEPTH IN (m)	
TOTAL METRES DRILLED (m)	3
TOTAL HOURS RUN	1 3/4

CUTTING STRUCTURE: T_1 | T_2 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓
TORQUE AT BOTTOM 7000 - 13000 NM
FILL ON BOTTOM (m) 5 M

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	22:00	
DENSITY kg/m³	1405	
FUNNEL VIS. - (S/L)	100	
W.L. (cm³)	13.0	
pH	10.4	
P.V./Y.P.	91.8	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2076	2079	3	35	15/36
		MTR	70	25/36

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
13400	152	80	152	80

REDUCED PUMP SPEED: @ | @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2063	2.5	61.9

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:45	3/4	6	Run in Hole, Flow ✓ @ 760m - 10 min
16:45	17:00	1/4	23	B.O.P. Drill Well Secure 1 min
17:00	17:15	1/4	24	TEST MWD TOOL
17:15	18:00	3/4	9	Slip & Cut 20m of Drill line.
18:00	18:15	1/4	7	R/S, Function Remote Choke
18:15			6	Continue R.I.H. To 1520, Flow ✓ 10 min
	20:15	2		R.I.H TO 2049 Tag bridge
20:15	22:00	1 3/4	3	Break Circ @ 2039m - 2076m Wash Ream
22:00	23:00	1	2	Drill F/2076 - 2078 m 35 RPM 12-36 WOB
23:00	23:15	1/4	10	Survey @ 2063m
23:15	24:00	3/4	2	Slide F/2078 - 2079 WOB 36 DaN

NOTES: ✓ Crown Saver, deadline anchor, Fastline clamp

118111

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			115000		5708

REVISED MARCH 1996

118111

FAX / RIG MANAGER

APPROVED COPYRIGHT 1977 JANUARY — APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N61 | YEAR 99 | MONTH 07 | DAY 06
OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.
RIG MANAGER: Dave Lauck | RIG NO. 58
PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1072

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		DC
DERRICKMAN		Ron Swiscoski	8		RS
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Alphonse Ulliac	8		
LEASEMAN		Lawrence Loreen	8		LL
Lease		Jason Villeneuve	8		JV
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	10 14		GP
DERRICKMAN		Mike Wetrich	10 14		MW
MOTORMAN		Wendell BertheL	12		WB
FLOORMAN		Lars Asak	12		LA
FLOORMAN		Larry Stownichy	12		LS
LEASEMAN		Edward Landry	12		EL
Lease		James Bertrand	12		JB
RIG WATCH		Gary & Mike stayed over Two hours To work on The Pump.			

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Ron Swiscoski	4		RS
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Alphonse Ulliac	4		
LEASEMAN		Lawrence Loreen	4		LL
Lease		Jason Villeneuve	4		JV
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

FOLD HERE →

119850

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature] | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 07 | DAY 05

RIG NO. 58

FUEL @ 8:00

RIG .62 | BOILER

WEATHER: TEMPERATURE °C / CURRENT CONDITIONS / WIND DIRECTION / ROAD

LAST CASING TUBING OR LINER

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	508	487.7	139.8	BTEC	K55	15	185.19		184
	339.7	315.3	101.2	BTEC	K55	58	735.55	662	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
254	254.0	G	54	178	5" HWD	26	F-1000	Emsco	254
178	174.8	G	54	178	5" HWD	26	F-1000	Emsco	254
127	74.3	H-W	94	165	4½IF	10			
	29.33	G	108			306			
		↓	↓	↓	↓	138			

REVISED MARCH 1996

119850

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APPROVAL PENDING

FAX / RIG MANAGER

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N61	99	07	05

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO.: 58

PROVINCE: N.W.T | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1091

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																										
MORN.		5½				1½	1/4	3/4																		
DAY		7					1/4	1/4		1/2																
EVE.		8																								
TOTAL		20½				1½	1½	1		1½																

TOTALS

SHALE SHAKER(S): NO. 3 TYPE: Derrick | SCREENS CHANGED ☐ YES ☑ NO | TOP 210 | MIDDLE 8 | BOTTOM 24

RENTALS/SERVICES: TNT 7703 | AWT 72046 | ACC. Oil 40

	MORN	DAY	EVE

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		8.02 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Shock Sub		3.87 m
3	228 D.C.		27.20 m
1	Jars		5.37 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	246.00 m
63	D.P.	STANDS	1811.36 m
	D.P.	SINGLES	m
Stickup	KELLY DOWN		2.36 m
	TOTAL		2055 m

WT. OF DC: 35000 (1000 daN) | WT. OF STRING: 85000 (1000 daN)

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	171
TOTAL HOURS RUN	97

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 10000↑ 10000↓
TORQUE AT BOTTOM: 7000-11000 NM
FILL ON BOTTOM (m): 1.5m

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	01:00	03:00	06:00
DENSITY kg/m³	1400	1400	1400
FUNNEL VIS. - (S/L)	93	93	91
W.L. (cm³)	12.1	11.4	12.4
pH	10.1	10.5	10.4
P.V.T	92.3	93.4	94.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lime	1sk
Sod Sulfite	2sx
Cormox	1pl
Chemicide	1pl
Lignite	2 sx
Desco	2sx
Pot Sulfate	2 sx
H2O	6m³

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	BIT RUN / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2049	2055	6	35	26/32
		MTR	70	28/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13500	152	80	152	80

REDUCED PUMP SPEED: Choke 6900 manifold 7100 @ | @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: [signature]

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
00:00			2	Slide F/2049-2049.2 28-32 WOB
			2	Rotate F/2049.2-2050m 26-27 WOB 35RPM
			2	Slide F/2050-2051.5 28-31 WOB
	03:15	3¼	2	Rotate F/2051.5-2052.7m 26-28 WOB.
03:15				4" valve leaking @ Pump manifold
	04:15	1	6	Pull STDS(10) ~~Repair valve~~ √Flow
04:15	05:00	¾	6	Repair valve
05:00	05:15	¼	7	Rig Service, Function Bot pipe 8sec √Flow
05:15	05:45	½	6	R.T.H TO 2028 Break circ Wash to 2052.7
05:45	08:00	2¼	2	Drill F/2052.7-2055m 26-28 WOB 35 RPM

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			110020		5708

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Ron Swiscoski	8		RS
MOTORMAN		Kevin Vandenbraud	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Alphonse Ulliac	8		
LEASEMAN		Lawrence Loreen	8		LL
Lease		Jason Villeneuve	8		JV
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	motor		8.02 m
1	monel		9.31 m
1	Trans Sub		1.90 m
1	Shock Sub		3.87 m
3	228 DC		27.20 m
1	Jar		5.37 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.24 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	246.00 m
63	D.P.	STANDS	m
XX	D.P.	SINGLES	1830.52 m
STICKUP	KELLY DOWN		9.42 m
	TOTAL		2067.1 m

WT. OF DC: 35000 (1000 daN) | WT. OF STRING: 86000 (1000 daN)

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	183
TOTAL HOURS RUN	109

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 10000↑ 10000↓
TORQUE AT BOTTOM: 7000-11000 Nm
FILL ON BOTTOM (m): —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	08:00	12:00	15:00
DENSITY kg/m³	1400	1400	1400
FUNNEL VIS. - (S/L)	103	100	100
W.L. (cm³)	11.0	12.0	12.0
pH	10.5	10.5	10.5
PVT m³	92.1	92.5	92.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corimox	1 pail
Sod sulfite	1 SX
Lime	
Pot. Sulfide	28 SX
Aluminum	1 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2055	2067	12	55 MTR	26/48
		MTR	70	28/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13400	152	80	152	80

REDUCED PUMP SPEED: Choke 6300 manifold 6400 @ 80 | @ 2056m

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2041.7	2.4	73.1
2052.0	2.6	67.6

DRILLER SIGNATURE: [signature]

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08:00	08:30	½	2	Drill F/2055m-2056m Rotate
08:30	08:45	¼	7	RIS, Function Annular, 18 sec cls, √RSPP.
08:45	09:00	¼	10	Survey @ 2041.7m
09:00	13:45	4¾	2	Drill F/2056m-2064m, Slide 1m ROT-7m
13:45	14:00	¼	8	Change a Head in Pump #2
14:00	15:30	1½	2	Drill F/2064m-2067m
15:30	15:45	¼	10	Survey @ 2052.0 m
15:45	16:00	¼	2	Drill F/2067m-2067.10m Slide.

Changed o S.W. Head in Pump #2

NOTES: √Crown Saver, FastLine Clamp, Deadline Anchor

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000 DAN		5708

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Mike Watrich	12		MW
MOTORMAN		Wendell Bettheil	12		WB
FLOORMAN		Lars Asak	12		LA
FLOORMAN		Larry Stowinsky	12		LS
LEASEMAN		Edward Landry	12		EL
Lease		James Bertrand	12		
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		8.02 m
1	Monel		9.31 m
1	Trans Sub		1.90 m
1	Shock Sub		3.87 m
3	228 D.C.		27.20 m
1	Jars		5.37 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.39 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	246.00 m
63	D.P.	STANDS	m
XX	D.P.	SINGLES	1830.52 m
STICKUP	KELLY DOWN		36.2 m
	TOTAL		2073 m

WT. OF DC: 35000 (1000 daN) | WT. OF STRING: 86000 (1000 daN)

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	189
TOTAL HOURS RUN	112

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1.7

HOLE CONDITION

HOLE DRAG: 10000↑ 10000↓
TORQUE AT BOTTOM: 6000-14000 NM
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	20:30	23:30	
DENSITY kg/m³	1400	1395	
FUNNEL VIS. - (S/L)	106	87	
W.L. (cm³)	12.3	12.2	
pH	10.4	10.3	
P.V.T	92.3	96.1	

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2067	2073	6	Slide	
		MTR	70	28/32

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13400	152	80	152	80

REDUCED PUMP SPEED: Choke 6300 manifold 6400 @ | @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION

DRILLER SIGNATURE: [signature]

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
16:00	24:00	8	2	Drill F/2067m-2073.1 Slide 6m

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000		5708

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Ron Swiscoski	4		RS
MOTORMAN		Kevin Vandenbraud	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Alphonse Ulliac	4		
LEASEMAN		Lawrence Loreen	4		LL
Lease		Jason Villeneuve	4		JV
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

119850

FOLD HERE →

119849

LICENCE NO.:	WELL NAME AND NO.:
1863	CDN Forest Etal Flett N61
OPERATOR:	**CONTRACTOR:**
Canadian Forest Oil	AKita Drilling LTD.
SURFACE LOCATION:	**UNIQUE ID.:**
N61- 6040 - 12330	300 - N61 - 6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	**SIGNATURE OF CONTRACTOR'S RIG MANAGER:**
N Mucha Mgr.	Dave Lauck

DAILY CHECKS — OPR. / R.M.

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H*S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR	MONTH	DAY
99	07	04

RIG NO. 58

FUEL @ 8:00

RIG 098 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	508	487.7	139.8	BT&C	K55	15	185.19		184
TUBING OR LINER	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

DC/DP SIZE (m/m)	LINEAR MASS (kg/m)	GRADE	MIN. ID (m/m)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
228	94.3	D.C	58	178	5" H90	26	F-1000	Emsco	254
127	74.3	H-W	74	165	4½ IF	10	F-1000	Emsco	254
↓	39.62	DP	106	↓	↓	206			
						1394			

REVISED MARCH 1996

119849

FAX / RIG MANAGER

CAODC APPROVED

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.	YEAR	MONTH	DAY
CDN Forest Etal Flett N61	99	07	04
OPERATOR: Canadian Forest Oil	CONTRACTOR: AKita Drilling LTD.		
RIG MANAGER: Dave Lauck	RIG NO.: 58		
PROVINCE: N.W.T	CAMP ☑ YES ☐ NO	RIG SAFETY DAYS: 1070	

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
OPER.																						Shaker Screens				
MORN.		7½					1/4			1/4																
DAY		7¼					1/4			1/2																
EVE.		6½						3/4		1/2				1/4												
TOTAL		21¼					1/2	3/4		1/4				1/4												

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE
NO. 3	TYPE Derrick	TMT 6913			
8	SCREENS CHANGED ☐ YES ☐ NO	AMJ 71256			
6	TOP 210	TOP 175			
8	MIDDLE	MIDDLE 175			
24	BOTTOM ↓	BOTTOM 10*	ACC. 0:1 40		

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MTR		8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	238 DC.		27.20 m
1	Jars		5.37 m
5	238 DC.		46.31 m
1	X/O		1.37 m
6	178 DC		57.20 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		246.00 m
62	D.P.	STANDS	1792.04 m
X	D.P.	SINGLES	m
Stick up	KELLY DOWN		14.04 m
	TOTAL		2024 m
WT. OF DC			35000 1000 daN
WT. OF STRING			84000 1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	140
TOTAL HOURS RUN	77¾

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
								1.8

HOLE CONDITION

HOLE DRAG	10000↑ 10000↓
TORQUE AT BOTTOM	7000 - 11000 Kn
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	1330	04:00	06:00
DENSITY kg/m³	1395	1405	1405
FUNNEL VIS. - (S/L)	90	94	93
W.L. (cm³)	12.0	11.9	12.1
pH	10.2	10.6	10.6
PVT	93.6	94.7	94.4

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Barite	84sx
Corinox	1pl
Sodsulfite	2sx
Lignite	4sx
Potsulfate	27sx
Desco	2sx
Lime	2sx
Chemside	1pl

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)
H2O	5.7m³		

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RMRD CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2010	2024	14	35	24/28
		MTR	70	34/40

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13400	152	80	152	80

REDUCED PUMP SPEED

Choke Manifold 6500 @ 6800 @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2004	2.5	85.6

DRILLER SIGNATURE: Ron Cadieux

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
00:00			2	Slide F/2010m - 2015.8 WOB 34-40 RPM
	04:45	4¾	2	Rotate F/2015.8 - 2019m 26-28 WOB 35 RPM
04:45	05:00	¼	7	R/S function Top pipe 8sec
05:00	05:15	¼	10	Survey @ 3004m
05:15	08:00	2¾	2	Rotate F/2019m - 2024m 35 RPM 26-28 WOB

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			98000		5708

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Ron Swiscoski	8		RS
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Alphonse Ulliac	8		
LEASEMAN		Lawrence Loreen	8		
Lease		Jason Villeneuve	8		JV
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MOTOR		8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	228 DC		27.20 m
1	Jar		5.37 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.20 m
1	X/O		1.41 m
3	HW	X/O	27.32 m
1			1.71 m
6	HW		54.62 m
	BHA		246.00 m
63	D.P.	STANDS	1811.36 m
	D.P.	SINGLES	m
Stick up	KELLY DOWN		8.36 m
	TOTAL		2049 m
WT. OF DC			35000 1000 daN
WT. OF STRING			85000 1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	154
TOTAL HOURS RUN	85

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
								1.8

HOLE CONDITION

HOLE DRAG	10000↑ 10000↓
TORQUE AT BOTTOM	7000 - 11000 NM
FILL ON BOTTOM (m)	—

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	08:30	12:00	15:00
DENSITY kg/m³	1410	1410	1410
FUNNEL VIS. - (S/L)	96	100+	140
W.L. (cm³)	12.0	11.5	11.0
pH	10.5	10.5	10.5
PVT m³	93.7	91.3	92.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	1 pail
Sodsulfite	1 sx
Drispac	1 sx
Starpac	2 sx
Lime	1 sx
Sulfamic	2sxs
Percol 728	1sx
Lignite	2 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RMRD CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2024	2038	14	35	26/28
		MTR	70	

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13300	152	80	152	80

REDUCED PUMP SPEED

Choke Manifold 6600 @ 6800 @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2013.6	2.0	87.3
2022.4	2.1	84.8

DRILLER SIGNATURE: Gary Patrick

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
08:00	09:30	1½	2	Drill F/2024m - 2028m Rotate
09:30	09:45	¼	10	Survey @ 2013.6
09:45	14:30	4¾	2	Drill F/2028m - 2037m ROTATE
14:30	14:45	¼	7	R/S Function upper Pipe Rams 6 secs
14:45	15:00	¼	10	Survey @ 2022.4m.
15:00	16:00	1	2	Drill F/2037m - 2038m ROTATE

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000 DAN		5636 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Mike Watrich	12		MW
MOTORMAN		Wendell Betthel	12		WB
FLOORMAN		Lars Asak	12		LA
FLOORMAN		Larry STAWNichy	12		LS
LEASEMAN		EDward Landry	12		EL
Lease		James Bertrand	12		JB
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MTR		8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	228 DC.		27.20 m
1	Jars		5.37 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.20 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		246.00 m
63	D.P.	STANDS	1811.36 m
	D.P.	SINGLES	m
Stick up	KELLY DOWN		8.36 m
	TOTAL		2049 m
WT. OF DC			35000 1000 daN
WT. OF STRING			85000 1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	165
TOTAL HOURS RUN	91½

CUTTING STRUCTURE T1	T2	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
								1.8

HOLE CONDITION

HOLE DRAG	10000↑ 10000↓
TORQUE AT BOTTOM	7000 - 11000 NM
FILL ON BOTTOM (m)	

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	20:30	2330
DENSITY kg/m³	1400	1405	1400
FUNNEL VIS. - (S/L)	140	111	93
W.L. (cm³)		11.8	12.1
pH	10.5	10.4	10.1
PVT m³	94.7	95.9	91.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Desco	1 sx
Potsulfate	28 sx
Accorrex	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DRLD RMRD CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
2038	2049	11	35	26/28
		MTR	70	36/

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13500	152	80	152	80

REDUCED PUMP SPEED

Choke Manifold 6900 @ 7100 @ 80

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
2032.7	2.4	~~79.0~~ 80.5

DRILLER SIGNATURE: Ron Cadieux

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM	TO	ELAP. TIME	CODE NO.	
16:00	18:30	2½	2	Drill F/2038m - 2043m ROTATE
18:30	19:15	¾	8	Work on Pump #1
19:15	19:30	¼	10	Take √ shot @ 2028.1
19:30	23:15	3¾	2	Drill F/2043m - 2047.7 35 RPM 26-28 WOB
23:15	23:30	¼	10	Survey @ 2032.7
23:30	23:45	¼	22	Change shaker screens #1 shaker
23:45	24:00	¼	2	Slide F/2047.7m - 2049m 36-39 WOB

Changed S.W. Head in Pump #1

NOTES: √Crown Saver, deadline anchor, fastline clamp

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BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			105000		5708

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Ron Swiscoski	4		RS
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Alphonse Ulliac	4		
LEASEMAN		Lawrence Loreen	4		
Lease		Jason Villeneuve	4		JV
RIG WATCH					

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

FOLD HERE →

119848

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR 99 | MONTH 07 | DAY 03

RIG NO. 58

FUEL @ 8:00

RIG 1.32 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	508	487.7	139.8	BT&C	K55	15	185.19		184
TUBING OR LINER	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
DP	114.3	49.53	D	82.6	165	4½ IF	196	F1000	Emsco	254
HWDP	178	174.48	D	58	178	5" H90	26	F1000	Emsco	254
DC	197	344.3	H-W	74	165	4½ IF	10	F-1000	Emsco	254
DC	197	349.03	D	106	↓	↓	196			
DC	197		D				134			

REVISED MARCH 1996

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APPROVAL PENDING

119848

FAX / RIG MANAGER

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N61 | YEAR 99 | MONTH 07 | DAY 03

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T | CAMP ☐ YES ☐ NO | RIG SAFETY DAYS: 1069

TIME-HRS

CODE NO.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
MORN.		7¼					¼			½																
DAY		7¾								¼																
EVE.		7¼					¼			½																
TOTAL		22¼					½			1¼																

TOTALS

SHALE SHAKER(S): NO. 3 TYPE Derrick; SCREENS CHANGED ☐ YES ☒ NO; TOP 210 | TOP 175; MIDDLE | MIDDLE; BOTTOM | BOTTOM

RENTALS/SERVICES: TMT 6716; AMS 71059; ACC. Oil 40

	MORN	DAY	EVE
8			
8			
8			
24			

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR	197	8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	228 DC.		27.20 m
1	Jars		5.37 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC.		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		246.00 m
61	D.P.	STANDS	1754.09 m
	D.P.	SINGLES	m
STICKUP	KELLY DOWN		16.09 m
	TOTAL		1984 m
WT. OF DC			35000 1000 daN
WT. OF STRING			84000 1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	100
TOTAL HOURS RUN	55¼

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1.81

HOLE CONDITION

HOLE DRAG 100001 100001

TORQUE AT BOTTOM 7500 - 13000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	01:30	04:00	06:00
DENSITY kg/m³	1390	1395	1395
FUNNEL VIS. - (S/L)	97	95	90
W.L. (cm³)	9.5	11.7	11.5
pH	10.1	10.0	10.0
P.V.T	89.0	90.3	93.1

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Corinox	2pls
Sod.Sulfite	3sx
Clemicide	1sk
Alcomer	1sk
Pot.Sulfate	27sx
Drispac	1sk
Staipac	2sx
Lime	3sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1970	1984	14	35	36/44
		MTR	70	34/40

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13400	152	80	152	80

REDUCED PUMP SPEED: Choke 5750 @ | @ 80; Manifold 6000

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1956.2	5.4	75.3
1965.8	4.7	76.9

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	00:45	¾	2	Rotate F/1970 - 1971.2m RPM 35 WOB 26-38
00:45	01:00	¼	10	Survey @ 1956.2m
01:00			2	Slide F/1971.2m - 1978.5m 36-40 WOB
	05:45	4¾		Rotate F/1978.5 - 1980.8m 26-28 WOB 35 RPM
05:45	06:00	¼	7	R/S function Annular 20 sec
06:00	06:15	¼	10	Survey @ 1965.8
06:15	08:00	1¾	2	Slide F/1980.8 - 1984 m Slide 3.2 m

Inspect SCBA

NOTES: √ Crown Saver deadline anchor, fastline clamp Held Environmental Meeting w/crew √ Fire extinguishers

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			95000	ERP	5708

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	8		NC
DERRICKMAN		Ron Swiscoski	8		RS
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Alphonse Ulliac	8		AU
LEASEMAN		Lawrence Loreen	8		LL
Lease		Jason Villeneuve	8		JV
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR	197	8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	228 DC		27.20 m
1	Jar		5.37 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA=		246.00 m
61	D.P.	STANDS	1754.09 m
—	D.P.	SINGLES	m
STICKUP	KELLY DOWN		1.49 m
	TOTAL		1998.60 m
WT. OF DC	35000		1000 daN
WT. OF STRING	84000		1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	114
TOTAL HOURS RUN	63

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓

TORQUE AT BOTTOM 7000 - 12000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1400	1400	1400
FUNNEL VIS. - (S/L)	92	95	95
W.L. (cm³)	10.5	10.5	10.5
pH	10.0	10.5	10.5
PVT m³	93.3	94.0	94.3

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lignite	6 sx
Desco	1 sk
Barite	108 sx
H2O	16.2 m³
Corinox	1 Pail
Sod Sulfite	1 sx
BARite	108 SX
Pot Sulfate	28 SX

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1984	1998	14	35 MTR	26/28
	Slide	MTR	70	36/40

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13000	152	80	152	80

REDUCED PUMP SPEED: Choke 6400 @ 80 @; Manifold 6100

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1975.9	3.9	77.9

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	11:30	3½	2	Drill F/1984m - 1990m Slide - 3m ROT - 3
11:30	11:45	¼	10	Survey @ 1975.9m
11:45	16:00	4¼	2	Drill F 1990 m - 1998m Slide 5m ROT 3

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			100000 DAN		5708 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Mike Watrich	12		MW
MOTORMAN		Wendell Bethel	12		WB
FLOORMAN		Lars Asak	12		LA
FLOORMAN		Larry Stawnichy	12		LS
LEASEMAN		Edward Landry	12		EL
		James Bertrand.	12		JB
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR	197	8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	228 D.C.		27.20 m
1	Jar		5.37 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 D.C.		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		246.00 m
61	D.P.	STANDS	1772.96 m
xx	D.P.	SINGLES	2.96 m
STICKUP	KELLY DOWN		m
	TOTAL		2010 m
WT. OF DC	35000		1000 daN
WT. OF STRING	84000		1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	126
TOTAL HOURS RUN	70¼

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1.8

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓

TORQUE AT BOTTOM 7000 - 11000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	20:30	23:30
DENSITY kg/m³	1410	1400	1395
FUNNEL VIS. - (S/L)	96	106	104
W.L. (cm³)	10.5	10.3	11.0
pH	10.5	10.6	10.5
PVT m³	94.0	94.6	93.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Caustic	1 SX
Lime	1 SX
Alkomer 1000	1 SK
Sod Sulfite	1 SX
Corinox	1 pail

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR'G RM'R CORE'G	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1998	3010	12	35 MTR	26/28
	Slide	MTR	70	36/40

CIRCULATION PRESSURE (kPa)	PUMP NO. 1 LINER SIZE (mm)	PUMP NO. 1 S.P.M.	PUMP NO. 2 LINER SIZE (mm)	PUMP NO. 2 S.P.M.
Choke 13000	152	80	152	80

REDUCED PUMP SPEED: Choke 6400 @ 80 @ 3000↓; Manifold 6700

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1985.2	3.4	79.7
1994.5	3.1	81.8

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	16:30	½	2	Drill F/1998m - 1999.6m Rotate.
16:30	16:45	¼	7	R/S Function Bottom Pipe Rams 6 secs √ BOP
16:45	17:15	½	2	Drill F/1999.6m - 2000.2m
17:15	17:30	¼	10	Survey @ 1985.2m
17:30			2	Drill F/2000.2m - 2005.4 Slide 38-40 WOB
	23:30	6		Rotate F/2005.4 - 2009.5 35 RPM 26-28 WOB
23:30	23:45	¼	10	Survey @ 1994.5m
23:45	24:00	¼	2	Slide F/2009.5 - 2010m

NOTES: √ Crown Saver, deadline anchor, deadline anchor 119848

BOILER HRS. RAN	BOILER ph	BOILER STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			97000		5708

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	INJURIES NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Ron Swiscoski	4		RS
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Alphonse Ulliac	4		AU
LEASEMAN		Lawrence Loreen	4		LL
Lease		Jason Villeneuve	4		JV
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

7/8/99

119847

FOLD HERE →

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: M Mella | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

DAILY CHECKS

	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) H²S Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Degasser Line	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR 99 | MONTH 07 | DAY 02

RIG NO. 58

FUEL @ 8:00

RIG 1.62 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

LAST CASING TUBING OR LINER	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
	508	487.7	139.8	BT&C	K55	15	185.19		184
	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
252.0	328.5	D.C.	76	177.8	5 H90	26	F-1000	Emsco	254
177.8	174.8	D.C.	57	177.8	5 H90	26	F-1000	Emsco	254
127	74.3	H.W.D.P.	79	165	4½IF	10			
127	29.02	D.P.	108			109			
127						138			

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.	7½						¼			¼																
	DAY	7½									½																
	EVE	7½						¼			¼																
	TOTAL	22½						½			1																

TOTALS

SHALE SHAKER(S)		RENTALS/SERVICES	MORN	DAY	EVE.
NO. 8	TYPE Derrick	TMI 6407			
SCREENS CHANGED ☑ YES ☐ NO		AMJ 70750			
8	TOP 210	TOP 175			
8	MIDDLE	MIDDLE			
24	BOTTOM	BOTTOM		ACC. 0.1	40

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MTR		8.03 m
1	monel		9.31 m
1	Trans Sub		1.90
1	Shock Sub		3.87 m
3	228 DC		27.20 m
1	Jar		5.37 m
5	228 D.C.		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
		BHA	246.00 m
59	D.P.	STANDS	m
XX	D.P.	SINGLES	1715.55 m
Stick up KELLYDOWN			19.55 m
TOTAL			1942.00 m
WT. OF DC		35000	1000 daN
WT. OF STRING		84000	1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	58
TOTAL HOURS RUN	33

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓

TORQUE AT BOTTOM 7500 - 12000 NM

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

TIME	01:00	04:00	7:00
DENSITY kg/m³	1405	1400	1405
FUNNEL VIS. - (S/L)	98	100+	100+
W.L. (cm³)	12.2	10.2	9.6
pH	10.5	10.4	10.3
PVT	88.6	87.6	88.8

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Soda Ash	1sac
Gel	20sx
Sod. Sul.	1sac
Corinox	1pail
Chemicide	1pail
Caustic	1sac
Lime	1sac
Desco	2sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

METRES DRILLED

FROM	TO	DRD R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1930	1942	12	35	36/
		MTR	70	36/40

CIRCULATION PRESSURE (kPa): Choke 12600 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M. 80

REDUCED PUMP SPEED: Choke 5700 @ | @ 80; manifold 5800

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1918.2	5.6	59.9

DRILLER SIGNATURE: R. Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00			2	Slide F/1930m - 1932m 36-40 WOB
	01:45	1¾		Rotate F/1932 - 1933.2 26-28 WOB 35 RPM
01:45	02:00	¼	10	Survey @ 1918.2m
02:00	07:30	5½	2	Slide F/1933.2 - 1941.5 36-39 WOB
07:30	07:45	¼	7	R/S, Function Remote choke.
07:45	08:00	¼	2	Drill F/1941.5 - 1942m Rotate .5m

NOTES: √Crown Saver, deadline anchor, fastline clamp

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			94000		5708

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Ron Swiscoski	8		RS
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Alphonse Ulliac	8		AU
LEASEMAN		Lawrence Loreen	8		
Lease		Jason Villeneuve	8		JV
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT | CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		8.02 m
1	monel		9.31 m
1	Trans Sub		1.90
1	Shock Sub		3.87 m
3	228 DC		27.20 m
1	Jar		5.37 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
		BHA	246.00 m
59	D.P.	STANDS	m
XX	D.P.	SINGLES	1715.55 m
STICKUP KELLYDOWN			6.00 m
TOTAL			1955.00 m
WT. OF DC		35000	1000 daN
WT. OF STRING		84000	1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	71
TOTAL HOURS RUN	40½

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓

TORQUE AT BOTTOM 7500 - 11000 NM

FILL ON BOTTOM (m) —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	08:30	12:00	15:00
DENSITY kg/m³	1400	1400	1395
FUNNEL VIS. - (S/L)	100	110	110
W.L. (cm³)	12.0	11.0	11.0
pH	10.5	10.5	10.5
PVT	88.7	88.8	89.6

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Lignite	4sx
Gypsum	4sx
Alcomer	1sac
H₂O	8m³
Rot Sulfate	28sx
Sod Sulfite	1 sx
Corinox	1 Pail
Lgm. Lo	2sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

METRES DRILLED

FROM	TO	DRD R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1942	1955	13	35±	36/28
	SLIDE	MTR	70	36/40

CIRCULATION PRESSURE (kPa): Choke 13000 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M. 80

REDUCED PUMP SPEED: Choke 6000 @ 80 | @; manifold 6200

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1927.6	5.4	63.6
1937.1	5.6	69.3

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	08:30	½	2	Drill F/1942m - 1942.6m
08:30	08:45	¼	10	Survey @ 1927.6m
08:45	14:00	5¼	2	Drill F/1942.6m - 1958.1m Slide .5m, Rot 4m
14:00	14:15	¼	10	Survey @ 1937.1
14:15	16:00	1¾	2	Drill F/1952.1m - 1955m Slide 3m

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			100000 DAN	General Tour Conditions	5708 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Mike Wetrich	12		MW
MOTORMAN		Wendell Betthel	12		WB
FLOORMAN		Lars Asak	12		LA
FLOORMAN		Larry STAWNichy	12		LS
LEASEMAN		Edward Landry	12		EL
Lease	641 442 470	James Bertrand	12		JB
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT | CREW SAFETY DAYS

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
1	MOTOR		8.02 m
1	monel		9.31 m
1	Trans Sub		1.90
1	Shock Sub		3.87 m
3	228 DC		27.20 m
1	Jar		5.37 m
5	228 DC		46.31 m
1	X/O		1.37 m
6	178 DC		57.29 m
1	X/O		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
		BHA	246.00 m
60	D.P.	STANDS	1725.31 m
	D.P.	SINGLES	m
STICKUP KELLYDOWN			1.21 m
TOTAL			1970 m
WT. OF DC		35000	1000 daN
WT. OF STRING		84000	1000 daN

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	86
TOTAL HOURS RUN	48

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1.18

HOLE CONDITION

HOLE DRAG 10000↑ 10000↓

TORQUE AT BOTTOM 7500 - 12000 NM

FILL ON BOTTOM (m)

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	20:30	23:30
DENSITY kg/m³	1395	1400	1395
FUNNEL VIS. - (S/L)	110	100	108
W.L. (cm³)	12.5	13.0	11.5
pH	10.5	10.0	10.2
PVT m³	90.8	87.3	87.2

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Sod Sulfite	1 sx
Corinox	1 pail
Desco	1 sx
Gel	22 sx

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

METRES DRILLED

FROM	TO	DRD R&R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1955	1970	15	35±	36/28
		MTR	70	36/40

CIRCULATION PRESSURE (kPa): Choke 13000 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. 80 | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M. 80

REDUCED PUMP SPEED: Choke 6000 @ 80 | @ 1957m; manifold 6200

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1946.6	5.7	72.9

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	17:30	1½	2	Drill F/1955m - 1957.5m Slide 2.5m
17:30	17:45	¼	7	R/S, Function upper pipe Rams, Check ARM
17:45	19:45	2	2	Drill F/1957.5m - 1961.6 35 RPM 26-29 WOB
19:45	20:00	¼	10	Survey @ 1946.6m
20:00	24:00	4	2	Slide F/1961.6m - 1970m WOB 36-39

NOTES: √Crown Saver, deadline anchor, fastline clamp

119847

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			96000		5708

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Ron Swiscoski	4		RS
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Alphonse Ulliac	4		AU
LEASEMAN		Lawrence Loreen	4		
Lease		Jason Villeneuve	4		JV
RIG WATCH					

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT | CREW SAFETY DAYS

REVISED MARCH 1996

119847

FAX / RIG MANAGER

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APPROVAL PENDING

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N61 | YEAR 99 | MONTH 07 | DAY 02

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1068

119846

FOLD HERE →

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

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

DAILY CHECKS (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) HHS Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines
(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Meal Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR 99 | MONTH 07 | DAY 01
RIG NO. 58
FUEL @ 8:00
RIG 56 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

	O.D. (mm)	MIN. I.D. (mm)	kg/m	MAKE	GRADE	NO. OF JOINTS	TOTAL(m) LENGTH	KB. TO CSG HEAD (m)	SET AT (m)
LAST CASING	508	487.7	131.8	BT&C	K55	15	185.14		184
TUBING OR LINER	339.7	315.3	101.2	BT&C	K55	58	735.55	6.62	735.12

	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
1	228.6	246.5	D.C.	74	228	7" H90	14			
2	178	174.8	D.C.	58	178	5" H90	26	F-1000	Emsco	254
3	127	74.3	H.W.	74	165	4½ IF	10	F-1000	Emsco	254
4	127	39.02	D.P.	108	165		506			

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REVISED MARCH 1996

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FAX / RIG MANAGER

DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR 99 | MONTH 07 | DAY 01
OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.
RIG MANAGER: Dave Lauck | RIG NO. 58
PROVINCE: N.W.T | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1069

TIME-HRS

CODE NO.	OPER.	1 RIG UP & TEAR DOWN	2 DRILL ACTUAL	3 REAMING	4 CORING	5 COND. MUD & CIRC.	6 TRIPS	7 RIG SERVICE	8 REPAIR RIG	9 CUT OFF DRILL LINE	10 DEV. SURVEY	11 WIRE LINE LOGS	12 RUN CASE & CEMENT	13 WAIT ON CEMENT	14 NIPPLE UP B.O.P.	15 TEST B.O.P.	16 DRILL STEM TEST	17 PLUG BACK	18 SQUEEZE CEMENT	19 FISHING	20 DIR. WORK	21 SAFETY MTG.	22	23	24	25	26
	MORN.		7¼					¼			½												Change Screens		Rig Off		
	DAY		6½					¼	½		½															
	EVE.		7¼						½		¼												¼			
	TOTAL		21					½	1		1¼												¼			

TOURS

	SHALE SHAKER(S)	RENTALS/SERVICES	MORN.	DAY	EVE.
8	NO. 2 TYPE Derrick	TMI - 6204			
8	SCREENS CHANGED ☐ YES ☐ NO	AMT - 70547			
8	TOP 210 / TOP 175				
8	MIDDLE 210 / MIDDLE 175				
24	BOTTOM 175 / BOTTOM 175	Acc. Oil 40			

MORNING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MTR		8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	228 D.C.		27.20 m
1	Jar		5.37 m
5	228 D.C.		46.31 m
1	x/o		1.37 m
6	178 D.C.		57.29 m
1	x/o		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		246.02 m
58	D.P.	STANDS	m
X	D.P.	SINGLES	1677.46 m
STICK UP	KELLY DOWN		18.46 m
	TOTAL		1905 m
WT. OF DC	350000	1000 daN	
WT. OF STRING	830000	1000 daN	

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	21
TOTAL HOURS RUN	11¾

CUTTING STRUCTURE: T | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 8000↑ 8000↓
TORQUE AT BOTTOM: 7000 ← 10000 NM
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	00:30	04:00	6:30
DENSITY kg/m³	1410	1400	1405
FUNNEL VIS. - (S/L)	86	73	76
W.L. (cm³)	11.9	12.3	11.7
pH	10.3	10.2	10.2
P.V./T_m^3	83.6	87.7	82.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Perco) 75%	1 sac
Driscal	1 sac
Starpac	2 sx
Lignite	3 sx
Desco	2 sx
Pot. Sul.	25 sx
Sod. Sul.	1 sac
Corinox	1 pail

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1892	1905	13	35	20/28
		MTR	70	36/40

CIRCULATION PRESSURE (kPa): Choke 12800

PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
152	80	152	82

REDUCED PUMP SPEED: Choke 13800 @ | @ 82

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1879.4	5.2	63.6
1889.1	5.5	62.5

DRILLER SIGNATURE: Ron Cadieux

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
00:00	01:15	1¼	2	Rotate F/1892 - 1894.4 WOB 26-28 35RPM
01:15	01:30	¼	10	Survey @ 1879.4 m
01:30			2	Slide F/1894.4 - 1889.7m 36-40WOB
	07:00	5½		Rotate F/1889.7 - 1904.1 35RPM 26-28 WOB
07:00	07:15	¼	7	R/S Function Bot Pipe 8sec
07:15	07:30	¼	10	Survey @ 1889.10m
07:30	08:00	½	2	Slide F/1904.1 - 1905 m
				Change discharge seat & valve #2 pump

NOTES: √Crown Saver, deadline anchor, fastline clamp. Held Safety Meeting W/crew

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			90000	Policy # 95004	5708

MORNING TOUR 00:00 TO 08:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	8		RC
DERRICKMAN		Ron Swiscoski	8		RS
MOTORMAN		Kevin Vandenbrand	8		KV
FLOORMAN		Julien Sassie	8		JS
FLOORMAN		Alphonse Ulliac	8		
LEASEMAN		Lawrence Loreen	8		
Lease		Jason Villeneuve	8		JV
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MOTOR		8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	228 DC		27.20 m
1	Jar		5.37 m
5	228 DC		46.31 m
1	x/o		1.37 m
6	178 DC		57.29 m
1	XO		1.41 m
3	HW		27.32 m
1	TBR		1.71 m
6	HW		54.62 m
	BHA =		246.00 m
58	D.P.	STANDS	m
X	D.P.	SINGLES	1677.46 m
STICK UP	KELLY DOWN		5.46 m
	TOTAL		1918.00 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	83000	1000 daN	

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	—
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	34
TOTAL HOURS RUN	18¼

CUTTING STRUCTURE: T | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION

HOLE DRAG: 5-6000 ↑ 7-8000 ↓ DAN
TORQUE AT BOTTOM: 7000 - 10000 NM
FILL ON BOTTOM (m): —

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	09:00	12:00	15:00
DENSITY kg/m³	1410	1400	1400
FUNNEL VIS. - (S/L)	82	88	98
W.L. (cm³)	10.0	10.0	13.0
pH	10.0	10.0	10.0
P.V./T_m^3	86.8	86.2	86.0

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Chemcide	1 pail
Aromer 110	1 sac
H_2O	8 m^3
Lime	2 sx
Desco	1 sx
Lignite	2 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1905	1918	13	35±	20/28
		Slide MTR = 70		36/40

CIRCULATION PRESSURE (kPa): Choke 13200

PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
152	82	152	89

REDUCED PUMP SPEED: Choke 6000 @ 1909m @ 82 (Manifold)

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1894.4	5.6	62.0
1898.8	5.6	61.9

DRILLER SIGNATURE: Gary Patrick

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
08:00	10:15	2¼	2	Drill F/1905m - 1909m - Slide 4m
10:15	10:30	¼	22	Change Shaker Screens TO 175's
10:30	10:45	¼	10	Survey @ 1894.4 m
10:45	11:15	½	8	Work on Pump #1
11:15	13:15	2	2	Drill F/1909m - 1913m Rotate 4m
13:15	13:30	¼	7	R/S Function UPPer Pipe Rams 7sec c/s
13:30	13:45	¼	10	Survey @ 1898.8
13:45	16:00	2¼	2	Drill 1913m - 1918m Slide 5m

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor. Greased Crown & Blocks, Tested Flare Igniters.

BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			95000 DAN		5708 KPA

DAY TOUR 08:00 TO 20:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Gary Patrick	12		GP
DERRICKMAN		Mike Wotrich	12		MW
MOTORMAN		Wendell Betthel	12		WB
FLOORMAN		Lars Asak	12		LA
FLOORMAN		Larry Stawnichy	12		LS
LEASEMAN		EDward Landry	12		ED
RIG WATCH					

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

NO.	BIT	O.D. mm	LENGTH
			.30 m
1	MTR		8.02 m
1	monel		9.31 m
1	Trans sub		1.90 m
1	Shock sub		3.87 m
3	228 DC.		27.20 m
1	Jar		5.37 m
5	228 DC.		46.31 m
1	x/o		1.37 m
6	178 D.C.		57.29 m
1	x/o		1.41 m
3	H.W.		27.32 m
1	TBR		1.71 m
6	H.W.		54.62 m
	BHA		246.00 m
58	D.P.	STANDS	m
XX	D.P.	SINGLES	1687.09 m
St. Kup	KELLY DOWN		3.09 m
	TOTAL		1930 m
WT. OF DC	35000	1000 daN	
WT. OF STRING	83000	1000 daN	

BIT RECORD

BIT NO.	17RR
SIZE (mm)	311.2
IADC CODE	537
MFG.	Reed
TYPE	EHP53A
SERIAL NO.	MM9061
JETS (mm)	3x15.9
DEPTH OUT (m)	
DEPTH IN (m)	1884
TOTAL METRES DRILLED (m)	46
TOTAL HOURS RUN	25½

CUTTING STRUCTURE: T | T_o | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr. 1.8

HOLE CONDITION

HOLE DRAG: 8000↑ 8000↓
TORQUE AT BOTTOM: 7000 - 11000 NM
FILL ON BOTTOM (m):

MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME	18:00	20:30	23:30
DENSITY kg/m³	1410	1410	1405
FUNNEL VIS. - (S/L)	90	97	95
W.L. (cm³)	13.0	11.6	12.3
pH	10.0	10.1	10.5
P.V./T_m^3	87.9	87.3	87.5

MUD MATERIALS ADDED

PRODUCT	AMOUNT X UNIT
Drispac	1 sx
Starpac	2 sx
Pot Sulfate	28 sx
Lime	1 sx

SOLIDS CONTROL

DESILTER

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE

HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)

METRES DRILLED

FROM	TO	DR-D RM-R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)
1918	1930	12	35±	24/28
		Slide MTR = 70		36/40

CIRCULATION PRESSURE (kPa): Choke 12600

PUMP NO. 1 LINER SIZE (mm)	S.P.M.	PUMP NO. 2 LINER SIZE (mm)	S.P.M.
152	80	152	80

REDUCED PUMP SPEED: Choke (Manifold) @ 80 @

DEVIATION SURVEY

DEPTH (m)	DEVIATION (°)	DIRECTION
1908.5	5.6	59.5

DRILLER SIGNATURE:

TIME LOG

FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
16:00	18:00	2	2	Drill F/1918m - 1921m Slide 3m
18:00	19:30	1½	8	Change a Head on Pump #1
19:30	19:30	1	2	Drill F/1921m - 1923.5 35 RPM 26-28 WOB
19:30	19:45	¼	10	Survey @ 1908.5
19:45	24:00	4¼	2	Slide F/1923.5 - 1930 37-42 WOB
				Changed 1 SW Head in Pump #1

NOTES: √Crown Saver, deadline anchor, fastline clamp

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BOILER HRS. RAN	ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
0			92000		5708

EVENING TOUR 20:00 TO 24:00

CREW	SOC. INS. NO.	NAME	HRS	INJURIES YES	NO
DRILLER		Ron Cadieux	4		RC
DERRICKMAN		Ron Swiscoski	4		RS
MOTORMAN		Kevin Vandenbrand	4		KV
FLOORMAN		Julien Sassie	4		JS
FLOORMAN		Alphonse Ulliac	4		
LEASEMAN		Lawrence Loreen	4		
Lease		Jason Villeneuve	4		JV
RIG WATCH					

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

5/8/99