

146038

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 (ons/crow/month)	Initial _____	Initial _____
(2) C.A.O.D.C. Rig Safety Inspection Checklist (ons/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		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)
RIG NO.															
FUEL @ 8:00															
RIG		BOILER													
W E A T H E R	TEMPERATURE °C					DC/DI SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS					127	2435	H404	76	138	4 1/2"	17	F1000	LHISCO	250
	WIND DIRECTION					127	3807	E3	101	138	4 1/2"	138	F1000	LHISCO	250
	ROAD					127	2902	E2	108	156	4 1/2"	174			

TIME - HRS	CODE NO.																					TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORNI	DAY	EVE					
		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	NO.	TYPE	
	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.									8	DERRICK FILL		
MORN.			6 3/4			1 1/4		1/2			1/2																			8	SCREENS CHANGED ☐ YES ☐ NO			
DAY			5 1/4			2 3/4																								8	TOP #1	TOP #2	AMS 1577	
EVE			6 3/4			3 1/2		1/2																						8	MIDDLE	MIDDLE	ACCUM 1512 36	
TOTAL			18			4 3/4		3 1/2			1/2																			24	BOTTOM	BOTTOM		

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. R.M.F. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 gms)	FROM	TO	ELAP. TIME	CODE NO.					
2544	2547.3		65	375	0000	0115	1 1/4	2	DRILL FROM 2544m - 2545m				
					0115	0130	1 1/4	7	TOP DRIVE SERV. CLOSE AND 20 SEC RST				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2			0130	0145	1 1/4	5	CLEAN SCREEN & MAKE CONNECTION				
LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.		0145	0215	1 1/4	5	WORK TIGHT HOLE & BACK REAM				
204000	127 10	127 10			0215	0445	2 1/2	2	DRILL 2545m - 2546m				
REDUCED PUMP SPEED					0445	0515	1 1/2	5	CIRC & WORK ON No 2 Pump CHANGE SEAT & VALVE CENTER BTM.				
3800	@ 0.55	@	85		0515	0730	2 1/4	2	DRILL 2546m - 2547m				
DEVIATION SURVEY					0730	0800	1/2	10	SURVEY & CLEAN PIPE SCREEN				
DEPTH (m)	DEVIATION (°)	DIRECTION											
2538.41	6.2	329.4											
				NOTES	CASE CHAINWALKER FASTLINE CLAMP DEADLINE ANCHOR BRACKETS LINKAGE								
				Boiler Blow down 3X									
DRILLER SIGNATURE				HRS. RUN	BOILER ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
Deso Engineering				8	10.5	340°	145000		SAFETY Glasses		1498 kPa		

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	G.R.D. R.M.-D CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO			
2547	2550	3	15	3433	1315	1315	5/4	2	DRILL 2547m - 2550m		
					1315	1400	3/4	5	Circumference & Hard Sample		
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2									
LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.								
19300	127	100	127	100							
REDUCED PUMP SPEED											
5800	@	100%	@	85							
DEVIATION SURVEY											
DEPTH (m)	DEVIATION (°)	DIRECTION									
DRILLER SIGNATURE				BOILER	MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
				HRS. RAN ph	STACK TEMP.						
				8	105 340	1600°C					

DAY TOUR

		METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D.H.D. R.M.S CORE-C	ROTARY R.P.M.	W.T.O.N BIT (1000 daN)	FROM	TO	E.L.A.P. TIME	C.O.D.E. NO.					
2550	2554	4	65	3 3/32"	1400	2100	5	3	DRILL 2550 m - 2553m				
					2100	2130	1/2	5	WORK PIPE & CHECK SCREEN				
					2130	2315	134	2	DRILL 2553m - 2557m				
					2315	2355	1/2	7	TOP DRIVE SERVED-CHANGING UPPER PIPE GEAR				
					2355	2400	1/4	5	WORK TIGHT PIPE & CIRC.				
CIRCULATION PRESSURE (kPa)					PUMP NO. 1		PUMP NO. 2						
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.								
20000	127	N°1	127	N°1									
REDUCED PUMP SPEED													
8700	@	85	@	2551									
DEVIATION SURVEY													
DEPTH (m)	DEVIAION (°)	DIRECTION											
					NOTES								
					TWO CHAINSLAND FAST-LINK CHAINS DEEP DUNE ANTI-HOOK BREAKERS LINKAGES								
DRILLER SIGNATURE					HRS.RAN	BOILER ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.			
									PIPE SCREEN	1498140			

C-31

Nov. 23-29/00

YEAR MONTH DAY			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)	
RIG NO.													
FUEL @ 8:00													
RIG. BOILER													
WEATHER	TEMPERATURE	°C	O.D.P. 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)	
	CURRENT CONDITIONS		127	74.3	H40	76	158	4 1/2 x 7	1	F1000	KMSCO	254	
	WIND DIRECTION		127	38.07	F3	101	156	7 1/2 x 1 1/2	1	F1000	KMSCO	254	
	ROAD		127	29.02	E2	108	156	4 1/2 x 7	1				

MORNING TOUR

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	D.R.D. B.M. - CCHC-C	ROTARY R.P.M.	WT. ON BIT (1000 dth)	FROM	TO	ELAP. TIME	CODE NO.						
3537					0400	0100	1	6	TOOK. TO SURF - FLUID CHECK CLOSE BLINDS					
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2			0410	0430	3 1/2	6	CHARGE BIT & MWD TOOL - R/H TO 711.					
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.	0430	0500	1 1/2	6	CIRC & TEST MWD TOOL					
127			127		0500	0545	2 1/2	9	SL P 9 CUT 80m DRILLING					
REDUCED PUMP SPEED					0545	0800	2 1/4	6	R/H 74m - 1664m					
@			@											
DEVIATION SURVEY														
DEPTH (m)	DEVIATION (°)	DIRECTION												
					MULTIPLE MEAS 19.32 - CALC MWD DIFF 5.31									
					NOTES MWD CROWNS AND FASTLINE CLAMP DEADLINE AND BACKLASH Boiler Blow down 3x									
DRILLER SIGNATURE					BOILER HRS. RAN ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Les Benyon					8		105 340°				R/H.			

[illegible][illegible]

EVENING TOUR

146034

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) Wall License & Stick Diagram Posted	Initial	Initial
(5) Flame 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 (onshore/offshore)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (onshore/offshore)		Initial
(3) Must Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kils checked		Initial

YEAR MONTH DAY			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)
RIG NO.												
FUEL @ 8:00												
RIG BOILER												
WEATHER	TEMPERATURE	°C	D.O.P. 64E (mm)	LINEAR MASS 150mm	GRADE	MIN. I.D. (mm)	TOOL JO.D. (mm)	TYPE 70 THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH (mm)
	CURRENT CONDITIONS		127	74.35	Hump	76	158	4 1/2" 138	17	F-1000	EMSCO	254
	WIND DIRECTION		127	38.07	E-3	101	150	4 1/2" 138	158	F-1000	EMISCO	254
	ROAD		127	29.02	E-2	108	150	4 1/2" 138	174			

DRILLING ASSEMBLY (At End of Tour)				LENGTH				BIT RECORD				MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
NO	BIT	O.D. mm		BIT NO.				MUD TYPE	☐ WATER BASED	☐ OIL BASED					FROM	TO	DR. RM. S. CORRE C	ROTARY R.P.M.	WT. ON BIT (1000-psi)	FROM	TO	ELAP. TIME	CORE NO.						
1	3 1/2" RMR		8 3/4"	32 CR											2517	2520	3	70	34	6000	0200	23						Ream 2510m - 2517m	
2	3 1/2" RMR		8 3/4"	311											2510	2517	3	70	34	0200	0230	1/2	1					Rig Set - Close Ann 20 Side RSP	
3	3 1/2" RMR		8 3/4"																	0230	0430	2	2					BREAK IN BIT 9 Drill 2517m - 2518m	
4	3 1/2" RMR		8 3/4"																	0430	0445	1/4	5					WORKING CLEAN SCREEN	
5	3 1/2" RMR		8 3/4"																	0445	0500	1/4	10					Survey	
6	3 1/2" RMR		8 3/4"																	0500	0600	1	2					Drill 2518m - 2519m	
7	3 1/2" RMR		8 3/4"																	0600	0630	1/2	5					work on No 1 Pump & Circ	
8	3 1/2" RMR		8 3/4"																	0630	0700	1/2	2					Drill 2519m - 2520m	
9	3 1/2" RMR		8 3/4"																										
10	3 1/2" RMR		8 3/4"																										
11	3 1/2" RMR		8 3/4"																										
12	3 1/2" RMR		8 3/4"																										
13	3 1/2" RMR		8 3/4"																										
14	3 1/2" RMR		8 3/4"																										
15	3 1/2" RMR		8 3/4"																										
16	3 1/2" RMR		8 3/4"																										
17	3 1/2" RMR		8 3/4"																										
18	3 1/2" RMR		8 3/4"																										
19	3 1/2" RMR		8 3/4"																										
20	3 1/2" RMR		8 3/4"																										
21	3 1/2" RMR		8 3																										

[illegible]

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD				METRES DRILLED				TIMES LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
NO.	BIT	O.D. mm	LENGTH	BIT NO.	MUD TYPE				TIME				FROM	TO	DRD R.M. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.			
1	3 1/2" RHR		30.0	32CR	WATER BASED				18:00	21:00	23:00	4526	2530	4	75	33%	1600	1700	1	2	DRILL 2526m - 2527.0m			
2	3 1/2" RHR		30.0	311					1630	1610	1620						1700	1730	1/2	7	R/S FUNCTION TOP PIPE & SEC 4 & R/SIT			
3	3 1/2" RHR		30.0						90	85	85						1730	1745	1/4	5	CIRC & WORK ON PUMP #1			
4	3 1/2" RHR		30.0						7.5	11.0	14.5						1745	1845	1	3	BACK WITHIN THUMB NAIL			
5	3 1/2" RHR		30.0						10.0	10.0	10.0						1845	1900	1/4	2	DRILL			
6	3 1/2" RHR		30.0						85.2	85.3	86.3						1900	1915	1/4	5	WORK ON PUMP & CIRC			
7	3 1/2" RHR		30.0														1915	2045	1 1/2	2	DRILL 2527-2528			
8	3 1/2" RHR		30.0														2045	2100	1/4	10	SURVEY			
9	3 1/2" RHR		30.0														2100	2230	1 1/2	2	DRILL 2528m - 2529m			
10	3 1/2" RHR		30.0														2230	2245	1/4	5	WORK P.P. & CLEAN SCREEN			
11	3 1/2" RHR		30.0														2245	2400	1 1/4	2	DRILL 2529m - 2530m			
12	3 1/2" RHR		30.0														NOTES							
13	3 1/2" RHR		30.0														CHECK BACKS AHEAD - CRANK CLAMP DEAD END BACK HOP & BACK 9 LINKS							
14	3 1/2" RHR		30.0														DRILLER SIGNATURE							
15	3 1/2" RHR		30.0														HRS. RUN	BOILER PH	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.
16	3 1/2" RHR		30.0														8			140,000		STOP CARDS		1533 KPA

FOLD HERE →

146033

LICENCE NO.: 1460
WELL NAME AND NO.: CANADIAN FOREST ETAL NORTHWARD C-31
OPERATOR: CANADIAN FOREST OIL
CONTRACTOR: ALTA DRILLING LTD
SURFACE LOCATION: 300 C 31 6040 12330-0
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]
SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

DAILY CHECKS
(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 - Flarelines & Degasser Lines
(1) Rig Site Health and Safety Meeting (weekly/monthly)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (weekly/monthly)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kils checked

OPR: [Initials] R.M.: [Initials]
YEAR: 2000 MONTH: 11 DAY: 25
LAST CASING TUBING OR LINER: 339.7 315.7 10.2 B79C K95 55 711.26 6.47 710
FUEL @ 8:00: 143 BOILER
TEMPERATURE: 127 °C
CURRENT CONDITIONS: 127 38.07 E3 101 156 44.0 175 F 1800 KMSCO 251
WIND DIRECTION: 127 29.02 E2 108 156 44.0 175 F 1800 KMSCO 251
ROAD: 127 29.02 E2 108 156 44.0 175 F 1800 KMSCO 251

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	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES			MOON	DAY	EVE	
	OPER	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	OUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.R.	TEST B.O.R.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRL WORK	SAFETY MTG.	INJECTED							NO	TYPE	TIME					
	MORN.																						8						8	SCREENS CHANGED ☐ YES ☐ NO		AMS 4503					
	DAY						3 1/2	2 1/2																4 3/4					8	TOP	TOP	Accum oil 36					
	EVE			4 3/4			2 1/2																						8	MIDDLE	MIDDLE						
	TOTAL			4 1/2			3	2 1/2																	12 3/4				24	BOTTOM	BOTTOM						

DRILLING ASSEMBLY (At End of Tour)
NO. 1 BIT: 32CR 311
LENGTH: 3.11 m
MUD TYPE: WATER BASED
MUD RECORD: TIME 23:00, DENSITY 1645, FUNNEL VIS. 8.0, W.L. 8.0, pH 10.0
MUD MATERIALS ADDED: [Blank]
SOLIDS CONTROL: [Blank]
DESILTER: [Blank]
CENTRIFUGE: [Blank]
HOLE CONDITION: [Blank]
HOLE DRAG: [Blank]
TORQUE AT BOTTOM: 43000
FILL ON BOTTOM (m): 111.50

DRILLING ASSEMBLY (At End of Tour)
NO. 1 BIT: 32CR 311
LENGTH: 3.11 m
MUD TYPE: WATER BASED
MUD RECORD: TIME 23:00, DENSITY 1645, FUNNEL VIS. 8.0, W.L. 8.0, pH 10.0
MUD MATERIALS ADDED: [Blank]
SOLIDS CONTROL: [Blank]
DESILTER: [Blank]
CENTRIFUGE: [Blank]
HOLE CONDITION: [Blank]
HOLE DRAG: [Blank]
TORQUE AT BOTTOM: 43000
FILL ON BOTTOM (m): 111.50

DRILLING ASSEMBLY (At End of Tour)
NO. 1 BIT: 32CR 311
LENGTH: 3.11 m
MUD TYPE: WATER BASED
MUD RECORD: TIME 23:00, DENSITY 1645, FUNNEL VIS. 8.0, W.L. 8.0, pH 10.0
MUD MATERIALS ADDED: [Blank]
SOLIDS CONTROL: [Blank]
DESILTER: [Blank]
CENTRIFUGE: [Blank]
HOLE CONDITION: [Blank]
HOLE DRAG: [Blank]
TORQUE AT BOTTOM: 43000
FILL ON BOTTOM (m): 111.50

METRES DRILLED: 2517
TIME LOG: FROM 0000 TO 0800
DETAILS OF OPERATION IN SEQUENCE AND REMARKS: CHECK COLLARS
DRILLER SIGNATURE: [Signature]
BOILER: 325
MAXIMUM EXPERIENCED HOOKLOAD: [Blank]
SAFETY TOPIC: [Blank]
M.A.C.P.: [Blank]

METRES DRILLED: 2517
TIME LOG: FROM 0800 TO 1245
DETAILS OF OPERATION IN SEQUENCE AND REMARKS: INSPECT 175mm D.C.P. HWD
DRILLER SIGNATURE: [Signature]
BOILER: 325
MAXIMUM EXPERIENCED HOOKLOAD: [Blank]
SAFETY TOPIC: [Blank]
M.A.C.P.: [Blank]

METRES DRILLED: 2517
TIME LOG: FROM 1245 TO 1705
DETAILS OF OPERATION IN SEQUENCE AND REMARKS: FILL PIPE & TEST MWD TOOL
DRILLER SIGNATURE: [Signature]
BOILER: 325
MAXIMUM EXPERIENCED HOOKLOAD: [Blank]
SAFETY TOPIC: [Blank]
M.A.C.P.: [Blank]

146032

TIME - HRS	CODE NO.																											TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY				
		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		NO. TYPE									
	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CONC. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG.	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NUDGE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIP WORK	SAFETY MTG.	CHECK COLLARS											2	OVERHEAD F2C	TIME 437041		
MORN.							6 3/4			3 1/2											1/2										8	SCREENS CHANGED ☐ YES ☐ NO		AMS 2690				
DAY			3 1/2				4 1/2																							8	TOP	TOP						
EVE							6 1/2	1/2																					8	MIDDLE	MIDDLE							
TOTAL			3 1/2				17 1/2	1/2		3 1/2											1/2								24	BOTTOM	BOTTOM							

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D.R.O. R.M.R. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 gms)	FROM	TO	ELAP. TIME	CODE NO.						
2517					0000	0045	7 1/2	6	FLOATH & CHECK BIT					
					0045	0215	1 1/2	6	CHANGE BIT & MULESHOE & FLOAT					
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2		0215	0515	3	6	R.H. TO SHOE					
	LINEH SIZE (mm)	S.P.M.	LINEH SIZE (mm)	S.P.M.	0515	0545	1/2	20	CHECK MWD TOOL					
	152		152		0545	0630	3/4	9	SLIP & CUT 20m DRILLWIRE					
REDUCED PUMP SPEED					0630	0800	1 1/2	6	R.H. 691. TO					
	@		@											
DEVIATION SURVEY														
DEPTH (m)	DEVIATION (°)		DIRECTION											
DRILLER SIGNATURE					NOTES Check Crown Sizer Fast Link Champ Deadweight Anchor Bore Sizer Linkage Boiler Blow down 3x									
					BOILER HRS. RAN ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
					8 1029		340							

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DR-D ROT-B CORE-C	ROTARY R.P.M.	WT. ON BIT (1000-lbf)	FROM	TO	ELAP. TIME	CODE NO.					
2517					1800	0945	1946	6	KTH To 2469m				
					0945	1315	343		KTH 2469m - 2516m				
					1315	1600	246		POOH Pumpout 2516m - 2240m				
CIRCULATION PRESSURE (kPa)										Looking for a crack in pipe or collars.			
PUMP NO. 1		PUMP NO. 2											
LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.										
127		127											
REDUCED PUMP SPEED													
@		@											
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)	DIRECTION											
					NOTES								
					✓ CROWN SAKER, FOOTLINE CLAMP, DEADLINE ANCHOR								
					DRILLER BLANK IDENT 3X								
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
HRS. RUN					ph	STACK TEMP.							
100					100	350	150		100				

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146031

LICENCE NO.: 1900
WELL NAME AND NO.: Canadian Forest et al Northward C31
OPERATOR: Canadian Forest et al
CONTRACTOR: AK to Drilling LTD
SURFACE LOCATION: 300-C31-6040-12330-0
UNIQUE ID.: 300-C31-6040-12330-0
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]
SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

DAILY CHECKS
(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 - 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: 2000 MONTH: 11 DAY: 23
RIG NO.: 58
FUEL @ 8:00
RIG: 127 BOILER:
TEMPERATURE: °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD
O.D. (mm): 339.7
MIN. I.D. (mm): 315.94
kg/m: 1012
MAKE: BT&C
GRADE: K55
NO. OF JOINTS: 55
TOTAL(m) LENGTH: 711.20
KB. TO CSG HEAD (m): 6.47
SET AT (m): 710
DC/DP SIZE (mm): 250.4
LINEAR MASS (kg/m): 174.8
GRADE: D6
MIN. ID (mm): 63
TOOL JT O.D. (mm): 128
TYPE THREAD: 5/8
NO. OF JOINTS: 24
PUMP TYPE: F-1000
PUMP MANUFACTURER: EMSCO
STROKE LTH. (mm): 254
DC/DP SIZE (mm): 178
LINEAR MASS (kg/m): 174.33
GRADE: D6
MIN. ID (mm): 76
TOOL JT O.D. (mm): 138
TYPE THREAD: 1 1/2 IF
NO. OF JOINTS: 138
PUMP TYPE: F-1000
PUMP MANUFACTURER: EMSCO
STROKE LTH. (mm): 254
DC/DP SIZE (mm): 127
LINEAR MASS (kg/m): 23.07
GRADE: E3
MIN. ID (mm): 108
TOOL JT O.D. (mm): 156
TYPE THREAD: V
NO. OF JOINTS: 174
PUMP TYPE: F-1000
PUMP MANUFACTURER: EMSCO
STROKE LTH. (mm): 254

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 & TIE DOWN	DRILL ACTUAL	REAMING CORING	CONC. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF 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	DIRL WORK	SAFETY MTG.						
MORN.		9:41/2			4 1/2	1 1/2	1/2																			
DAY																										
EVE.																										
TOTAL		4 1/2	1 1/2		3 1/2	1 1/2	1/2																			

SHAKE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
NO. TYPE	2 Derrick F.L.C. TmJ-736169			
SCREENS CHANGED	YES NO AnnJ-11602			
TOP	TOP Accum oil-36			
MIDDLE	MIDDLE			
BOTTOM	BOTTOM			

DRILLING ASSEMBLY (At End of Tour)
NO. 1
BIT: 31C
O.D. (mm): 311
LENGTH: 36.84m
MFG: Smith
TYPE: F3
SERIAL NO: LR8234
JETS: 3x19.0
DEPTH OUT: 2517
DEPTH IN: 2475
TOTAL METRES DRILLED: 42
TOTAL HOURS RUN: 68.5269
CUTTING STRUCTURE: T₁ T₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr. TQ.61
HOLE CONDITION: 10000 FT/10000 DAN
TORQUE AT BOTTOM: 8-17000 FT/LB
FILL ON BOTTOM (m): -
WT.OFDC: 46000
WT.OFSTRING: 112000

METRES DRILLED
FROM: 2515 TO: 2517
D.R. R.A.R. CORE-G: 2
ROTARY R.P.M.: 75
WT. ON BIT (1000 gN): 35/37
FROM: 0000 TO: 0245
ELAP. TIME: 24.2
CODE NO.: 2
DETAILS OF OPERATION IN SEQUENCE AND REMARKS: Drill 311mm hole F/2515m-2517m
CIRCULATION PRESSURE (kPa): 14700
PUMP NO. 1: 127
PUMP NO. 2: 110
REDUCED PUMP SPEED: 0530 0630 1 10
DEVIATION SURVEY: DEPTH (m): 2508, DEVIATION (°): 5.4, DIRECTION: 339.4
DRILLER SIGNATURE: [Signature]
BOILER: 8 HRS. RAN, 10.0 ph, 350°F
MAXIMUM EXPERIENCED HOOKLOAD: 150000 DAN
SAFETY TOPIC: Connections.
M.A.C.P.: 1412 KPA

DRILLING ASSEMBLY (At End of Tour)
NO. 2
BIT: 31C
O.D. (mm): 311
LENGTH: 36.84m
MFG: Smith
TYPE: F3
SERIAL NO: LR8234
JETS: 3x19.0
DEPTH OUT: 2517
DEPTH IN: 2475
TOTAL METRES DRILLED: 42
TOTAL HOURS RUN: 69
CUTTING STRUCTURE: T₁ T₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr. TQ.61
HOLE CONDITION: 10000 FT/10000 DAN
TORQUE AT BOTTOM: 8-17000 FT/LB
FILL ON BOTTOM (m): -
WT.OFDC: 46000
WT.OFSTRING: 112000

METRES DRILLED
FROM: 2517 TO: 2517
D.R. R.A.R. CORE-G: -
ROTARY R.P.M.: -
WT. ON BIT (1000 gN): -
FROM: 0000 TO: 1600
ELAP. TIME: 8
CODE NO.: 8
DETAILS OF OPERATION IN SEQUENCE AND REMARKS: 1600 - BACK REAM TIGHT FROM 2301m - 2262m - EXTREME TIGHT
2262m - 2164m TIGHT FROM 2166m - 2129 EXTREME TIGHT
2129m - 2094m
LAY DOWN E3 PIPE WASHED SEAL
DRILLER SIGNATURE: [Signature]
BOILER: 8 HRS. RAN, 10.0 ph, 350°F
MAXIMUM EXPERIENCED HOOKLOAD: 150000 DAN
SAFETY TOPIC: STOP CARDS
M.A.C.P.: 1412 KPA

DRILLING ASSEMBLY (At End of Tour)
NO. 3
BIT: 31C
O.D. (mm): 311
LENGTH: 36.84m
MFG: Smith
TYPE: F3
SERIAL NO: LR8234
JETS: 3x19.0
DEPTH OUT: 2517
DEPTH IN: 2475
TOTAL METRES DRILLED: 42
TOTAL HOURS RUN: 69
CUTTING STRUCTURE: T₁ T₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr. TQ.61
HOLE CONDITION: 10000 FT/10000 DAN
TORQUE AT BOTTOM: 8-17000 FT/LB
FILL ON BOTTOM (m): -
WT.OFDC: 46000
WT.OFSTRING: 112000

METRES DRILLED
FROM: 2517 TO: 2517
D.R. R.A.R. CORE-G: -
ROTARY R.P.M.: -
WT. ON BIT (1000 gN): -
FROM: 1600 TO: 1730
ELAP. TIME: 130
CODE NO.: 130
DETAILS OF OPERATION IN SEQUENCE AND REMARKS: 1600 1730 130 8 Back Ream Tight Hole 2096m - 2094m
1730 1815 34 6 F.C.O.H. 2010m - 1811m Flow
1815 1845 1/2 5 Pump Off
1845 2400 54 6 F.C.O.H. 1811m Flow. 45% H₂O, cut off hole
DRILLER SIGNATURE: [Signature]
BOILER: 8 HRS. RAN, 10.0 ph, 350°F
MAXIMUM EXPERIENCED HOOKLOAD: 140000 DAN
SAFETY TOPIC: 1412 KPA

146030

DAILY CHECKS

- (1) Daily Walk Around Inspection
- (2) Detailed Inspection-Weekly (using checklist)
- (3) HES Signs Posted (if required)
- (4) Well License & Stic Diagram Posted
- (5) Flame Line Staked
- (6) BOP Drills Performed
- (7) Visually inspect BOP's - Flameless & Degasser Lines

- (1) Rig Site Health and Safety Meeting (once/month)
- (2) C.A.O.D.C. Rig Safety Inspection Checklist (once/mo)
- (3) Maint inspection Before Raising or Lowering
- (4) Crown Sealer Checked
- (5) Motor Killa checked

TIME - HRS	CODE NO.																										TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES				
	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		NO.	TYPE	MORN	DAY	EVE		
	OPER.	RUN 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 CAGE & CEMENT	WAIT ON CEMENT	NIFFLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.							NO. 1	TYPE				
MORN.			7 1/4			1/4																							0	SCREENS CHANGED	☐ YES ☒ NO			
DAY			7 1/4					1/2			1/4																		0	TOP	140	TOP	175	
EVE.			7 1/4																			1/4							0	MIDDLE	140	MIDDLE	175	
TOTAL			23 1/4			1/4		1/2			1/4											1/4							24	BOTTOM	140	BOTTOM	175	

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS							
FROM	TO	TDR TMR COREC	ROTARY R.P.M.	WT. ON BIT (1000 psi)	FROM	TO	ELAP- TIME	CODE NO.						
2499	2506	7	75	35	0000	0500	5	2	Drill 311mm hole F/2499-2504m					
					0500	0515	14	5	Circ. & work hole, check Pipe Screen.					
					0515	0800	274	2	Drill F/2504m-2506m					
CIRCULATION PRESSURE (KPa)		PUMP NO.1		PUMP NO.2										
10600		127 90		127 90										
REDUCED PUMP SPEED														
6100		@ 250 @		90										
DEVIATION SURVEY														
DEPTH (m)		DEVIATION (°)		DIRECTION										
						Hoisting Load Limits								
						Drill Pipe - 174000 DAN								
						Mast - 235800 DAN								
					NOTES									
					✓ Crown Saver Fastline Clamp, Deadline Anchor, Brakes & Linkage.									
					Boiler Blown down 3X, Greased Crown & Blocks									
DRILLER SIGNATURE					BOILER ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Garry Patullo					8		10.5 350°F		150000 DAN		Working around High Pressure lines		1498 KPA	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	R.P.D. BAR CORE-G	ROTARY R.P.M.	WT. ON BIT (1000-4000)	FROM	TO	ELAP. TIME	CODE NO						
2506	2510	4	75	39/37	0930	0930	1/2	2	Drill From 2506m - 2507m					
					0930	1000	1/2	7	Top Drive Serv - Close Upper Pipe Casing Riser					
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2		1000	1315	3 1/2	2	Drill 2507m - 2508m					
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.	1315	1330	1/4	10	SURVEY					
10500	127	85	127	85	1330	1600	2 1/2	2	Drill 2508m - 2510m					
REDUCED PUMP SPEED														
6800	@	70	@	357										
DEVIATION SURVEY														
DEPTH (m)	DEVIATION (°)		DIRECTION											
2489.87	5.3		334.8											
					NOTES									
					Blower Blow down 3X, Inspected Torque Tube									
DRILLER SIGNATURE					BOILER HRS. RAN ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Lee Bunneman					8 10.5				145000		SAFETY HAZARDS		1533 KPA	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	ROD TAP COR-C	ROTOR R.P.M.	WT. ON BIT (1000-lbf)		FROM	TO	ELAP. TIME	CODE NO.				
2510	2515	5	75	3527		11600	11615	1/4	20	WORK P.P. & CLEAN SCREEN			
						11615	2400	7/4	2	DRILL 2510 m - 2515 m			
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2									
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.								
12300	127	95	127	95									
REDUCED PUMP SPEED													
6800	@	510	@	90									
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (°)		DIRECTION									
						Hoisting Load Limits Drill P.P. - 174000 DAN Mast - 235800 DAN							
						NOTES ✓ Crown Saver, Fastline Clamp Deadline Anchor, Brakes & Linkage Boiler Blown down 3x, Function Remote choke.							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
						HRS. RAN	ph	STACK TEMP.					
						8	10.0	350°F	150000 DAN		Connections		1498 KPA

146029

TIME - HRS	CODE NO.																					TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE						
		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	NO. TYPE			
	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	R/N 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 1/4			1/4					1/2																			8	2 Service	F.H.C.	T.M.J. 422801		
DAY			6 1/4			1															3/4									8	TOP	140	TOP	175	Accum. oil - .36
EVE			6 3/4			1/4		1/4			3/4																		8	MIDDLE	140	MIDDLE	175		
TOTAL			20 1/4			1 1/4		1/4			1 1/4										3/4								24	BOTTOM	140	BOTTOM	175		

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146028

LICENCE NO.: 1900	WELL NAME AND NO.: Canadian Forest et al North Liard C31
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akita Drilling Ltd
SURFACE LOCATION: 300-C31-6040-13330-0	UNIQUE ID.: 300-C31-6040-13330-0
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) HVS Signs Posted (if required)	Initial	Initial
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flow Line Staked	Initial	Initial
(6) BOP Dills Performed	Initial	Initial
(7) Visually inspect BOP's - Firelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/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: 2000	MONTH: 11	DAY: 20	LAST: CASING	O.D. (mm): 339.7	MIN. I.D. (mm): 315.34	kg/m: 101.2	MAKE: BTGC	GRADE: K55	NO. OF JOINTS: 55	TOTAL(m) LENGTH: 711.20	KB TO CSG HEAD (m): 6.47	SET AT (m): 710
FUEL @ 8:00			OR: TUBING									
TEMPERATURE °C			DC/OP SIZE	LINEAR MASS	GRADE	MIN. I.D.	TOOL JOINT D.	TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH (mm)
CURRENT CONDITIONS			2 1/2"	24.8	DC	63	178	5 1/2"	24	F-1000	EMSCO	254
WIND DIRECTION			178	174.8	DC	76	178	4 1/2"	17	F-1000	EMSCO	254
ROAD			127	174.35	DC	101	156	4 1/2"	17			
			127	58.07	E3	108	156	4 1/2"	17			
			127	29.03	E3	108	156	4 1/2"	17			

TIME	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	TOTALS	SHAPE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
OPER.																																	
MORN																																	
DAY																																	
EVE																																	
TOTAL																																	

DRILLING ASSEMBLY (At End of Tour)										BIT RECORD										MUD RECORD												
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	31C	MUD TYPE	WATER BASED			OIL BASED			TIME	02:00	04:00	06:00	DENSITY	1640	1635	1635	FUNNEL	87	84	88	W.L. (cm)	8.2	8.2	9.2	pH	10.0	10.0	10.0
1	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
2	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
3	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
4	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
5	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
6	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
7	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
8	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
9	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
10	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
11	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
12	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
13	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
14	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
15	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
16	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
17	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
18	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
19	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
20	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
21	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
22	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
23	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
24	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
25	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
26	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
27	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
28	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
29	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
30	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
31	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
32	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
33	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
34	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
35	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN	9	CUTTING STRUCTURE	T ₁	T ₂	MOC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.
36	150 S&H	228	237.92m	SIZE	311	IADC CODE	537	MPG.	Smith	SERIAL NO.	LR8234	JETS	3x19.0	DEPTH OUT	178	141.32m	DEPTH IN	141	TOTAL METRES DRILLED	6	TOTAL HOURS RUN											

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146027

LICENCE NO.: 1900
WELL NAME AND NO.: Canadian Forest et al North Lard C31
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: 300-C31-6040-12330-0
UNIQUE ID: 300-C31-6040-12330-0
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]
SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

DAILY CHECKS
(1) Daily Walk-Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) H/S Signs Posted (if required)
(4) Well Licenses & Stick Diagram Posted
(5) Plans Lines Staked
(6) BOP Data Performed
(7) Visually inspect BOP's - Plasterlines & Degasser Lines
(8) Rig Site Health and Safety Meeting (one/mo/week)
(9) C.A.O.D.C. Rig Safety Inspection Checklist (one/mo/week)
(10) Mast Inspection Before Raising or Lowering
(11) Crown Saver Checked
(12) Motor Kils checked

OPR R.M.
YEAR: 2006 MONTH: 11 DAY: 19
RIG NO.: 58
FUEL @ 8:00
RIG: .85 BOILER
WEATHER: TEMPERATURE: °C
CURRENT CONDITIONS: 178
WIND DIRECTION: 127
ROAD: 127
LAST CASING TUBING OR LINER: 339.7 315.34 101.2 BT-4C K55 55 711.20 6.47 710
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)
DC-OP SIZE LINEAR MASS GRADE MIN. ID TOOL JT O.D. TYPE NO. OF JOINTS PUMP TYPE PUMP MANUFACTURER STROKE LTH (mm)
2475 178 174.8 DC 63 178 5140 124 F-1000 EMSCO 254
127 74.35 HW 76 158 4161F 138 F-1000 EMSCO 354
127 74.35 HW 76 158 4161F 138 F-1000 EMSCO 354

TIME	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	TOTALS	SHALE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
MORN																																	
DAY																																	
EVE																																	
TOTAL																																	

DRILLING ASSEMBLY (At End of Tour)
NO. BIT O.D. (mm) LENGTH
BIT NO. 31C
SIZE (mm) 311
IADC CODE 537
MFG. Smith
TYPE F3
SERIAL NO. LR8234
JETS (mm) 3x19.0
DEPTH OUT (m) 2475
DEPTH IN (m) 2475
TOTAL METRES DRILLED (m) 2475
TOTAL HOURS RUN
CUTTING STRUCTURE T₁ T₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.
D.P. STANDS
D.P. SINGLES
KELLYDOWN
TOTAL
HOLE DRAG
WT. OF DC
WT. OF STRING
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

DRILLING ASSEMBLY (At End of Tour)
NO. BIT O.D. (mm) LENGTH
BIT NO. 31C
SIZE (mm) 311
IADC CODE 537
MFG. Smith
TYPE F3
SERIAL NO. LR8234
JETS (mm) 3x19.0
DEPTH OUT (m) 2475
DEPTH IN (m) 2475
TOTAL METRES DRILLED (m) 319.5
TOTAL HOURS RUN
CUTTING STRUCTURE T₁ T₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.
D.P. STANDS 212.75
D.P. SINGLES 18.80
KELLYDOWN 14
TOTAL 2460
WT. OF DC 53000
WT. OF STRING 11000
TORQUE AT BOTTOM 10-17000 / 17.1645
FILL ON BOTTOM (m)

DRILLING ASSEMBLY (At End of Tour)
NO. BIT O.D. (mm) LENGTH
BIT NO. 31C
SIZE (mm) 311
IADC CODE 537
MFG. Smith
TYPE F3
SERIAL NO. LR8234
JETS (mm) 3x19.0
DEPTH OUT (m) 2475
DEPTH IN (m) 2475
TOTAL METRES DRILLED (m) 3
TOTAL HOURS RUN 242
CUTTING STRUCTURE T₁ T₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.
D.P. STANDS 2158.41
D.P. SINGLES 2158.41
KELLYDOWN
TOTAL 2478.00
WT. OF DC 46000
WT. OF STRING 11000
TORQUE AT BOTTOM 10-17000 / 17.1645
FILL ON BOTTOM (m)

METRES DRILLED
FROM TO
2475
CIRCULATION PRESSURE (kPa)
PUMP NO. 1 PUMP NO. 2
LINER SIZE (mm) S.P.M. LINER SIZE (mm) S.P.M.
152 152
REDUCED PUMP SPEED
@ @
DEVIATION SURVEY
DEPTH (m) DEVIATION (°) DIRECTION
NOTES
DRILLER SIGNATURE
BOILER HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.
8 10.5 Working on Pumps

METRES DRILLED
FROM TO
2475 2478 3 65/15 2475
2452 2460 3 85 7/3
CIRCULATION PRESSURE (kPa)
PUMP NO. 1 PUMP NO. 2
LINER SIZE (mm) S.P.M. LINER SIZE (mm) S.P.M.
152 152 152 84
REDUCED PUMP SPEED
@ 80 @
DEVIATION SURVEY
DEPTH (m) DEVIATION (°) DIRECTION
NOTES
DRILLER SIGNATURE
BOILER HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.
8 10.5 145000 1498 KPA

METRES DRILLED
FROM TO
2475 2478 3 65/15 2475
2460 2475 13 75 3/6
CIRCULATION PRESSURE (kPa)
PUMP NO. 1 PUMP NO. 2
LINER SIZE (mm) S.P.M. LINER SIZE (mm) S.P.M.
152 152 152 80
REDUCED PUMP SPEED
@ 2475 @ 80
DEVIATION SURVEY
DEPTH (m) DEVIATION (°) DIRECTION
NOTES
DRILLER SIGNATURE
BOILER HRS. RAN ph STACK TEMP. MAXIMUM EXPERIENCED HOOKLOAD SAFETY TOPIC M.A.C.P.
8 10.5 150000 1425 Drills 1428 KPA

146026

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial _____	Initial _____
(2) Detailed Inspection-Weekly (rolling checklist)	Initial _____	Initial _____
(3) H/S Signs Posted (if required)	Initial _____	Initial _____
(4) Well License & Stock 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/week/month)	Initial _____	Initial _____
(2) C.A.G.D.C. Rig Safety Inspection Checklist (one/mo/week)	Initial _____	Initial _____
(3) Mast Inspection Before Raising or Lowering	Initial _____	Initial _____
(4) Crown Saver Check	Initial _____	Initial _____
(5) Motor Kills checked	Initial _____	Initial _____

YEAR	MONTH	DAY	LAST	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)
2000	11	15	CASING	339.7	310.34	1012	BT/C	K55	55	711.20	6.47	710
RIG NO.	58		TUBING OR LINER									
FUEL @ 8:00												
RIG	1.03		BOILER									
WEATHER	TEMPERATURE	°C	D.C./P. SIZE	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTR. (mm)
	CURRENT CONDITIONS		178	286.4	DC	75	1170	1 1/2"	34	F-1000	EMISCO	254
	WIND DIRECTION		187	174.8	DE	63	178	5/16"	17	F-1000	EMISCO	254
	ROAD		127	74.33	FW	76	158	4 1/2"	138	F-1000	EMISCO	254
			127	38.07	E3	101	156					
			127	29.03	E3	108	150	↓	174			

[illegible][illegible][illegible]

146025

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 & Stock 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		LAST		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)	
2000		11		17		CASING		339.7		315.34		101.2		BTFC		K55		55		711.90		6.47		710	
RIG NO		58				TUBING																			
FUEL @ 8:00						OR																			
RIG		1.44		BOILER		LINER																			
WEATHER	TEMPERATURE		°C		DC/DP SIZE (in)		LINEAR MASS (lb/ft)		GRADE		MIN. ID (mm)		TOOL JOINT O.D. (mm)		TYPE HEAD		NO. OF JOINTS		PUMP TYPE		PUMP MANUFACTURER		STROKE LTH. (mm)		
	CURRENT CONDITIONS		178		200.4		DC		75		178		7400		24		F-1000		EMISCO		254				
	WIND DIRECTION		137		74.35		HW		76		158		1 1/2 IF		17		F-1000		EMISCO		254				
	ROAD		137		30.07		E3		101		156		↓		174										

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	TOTAL \$	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE	TOTAL							
	OPR. 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	NIPLER UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	D/R. WORK	SAFETY MTG.								NO. TYPE														
	MORN		6 1/2	1 1/4		1/4																								8	2 LEMICK	F.L.C.					T.M.J. - 427826						
	DAY		7 1/4					1/4																						8	SCREENS CHANGED	☐ YES ☐ NO					A.M.J. - 3259						
	EVE		2 1/2	3		1 1/4	1/2				3/4																			8	MIDDLE	140					MIDDLE	175	Accum. oil - .36				
	TOTAL		13 1/4	4 1/4		1 1/4	1/2	1 1/4			3/4																			24	BOTTOM	140					BOTTOM	175					

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. R.M.R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 gN)	FROM	TO	ELAP. TIME	CODE NO.				
2468	2471	3	65	35	0000	0115	1¼	2	Drill 311mm hole F/2468m-2469.04m			
					0115	0130	¼	5	Circulate up Sample. Drilling Break @ 2468.80m			
					0130	0400	2½	2	Drill F/2469m - 2469.94m			
					0400	0515	1¼	3	Ream & Clean Hole F/2445m - 2469m			
					0515	0800	2¾	2	Drill F/2469m - 2471m			
REDUCED PUMP SPEED												
7300	@	90	@	2469m								
DEVIATION SURVEY												
DEPTH (m)	DEVIATION (°)		DIRECTION									
					NOTES ✓ Crown Saver, Fastline Clamp, Deadline Anchor, Baskets & Linkage. Boiler Blown down 3x.							
DRILLER SIGNATURE					BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Garry Roberts					8 10.5		150000 TAN		Handling Tubulars		1463 KPA	

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	DR-D RM-B CORE-C	ROTARY R.P.M.	WT ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO					
2471	2474	3	71	35	0800	1545	7 1/2		DRILL FROM 2471m - 2474m				
					1545	1600	1 1/4		TOP DRIVE SERV - CLOSE ANN 20SEC R5PP				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2										
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.									
12000	152	85	152	85									
REDUCED PUMP SPEED													
7200	@	85	@	2474									
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)		DIRECTION										
					NOTES								
					CHUCK CROWN SAVED - FASTWIND CLAMP - DEADWIND ANCHOR BRAKES - LINDA Boiler blow down 3x								
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
Leo Bergeson					HRS. RAN	ph	STACK TEMP.			WORKING AREA		M.A.C.P.	
					8	10.5	340°	1410,000		WORKING AREA		1463 KPA	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	U.B. - R.M. CORE-G	ROTARY R.P.M.	WT. ON BIT (1000's lbs)		FROM	TO	ELAP. TIME	CODE NO.						
2474	2475	1	70	35		1600	1630	1/2	10	CHECK SURVEY					
						1630	1900	2 1/2	2	DRILL 2474m - 2475.89m					
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2		1900	2200	3	3	Room & clean hole F/2455m - 2475m					
LINER SIZE (mm)		S.P.M.		LINER SIZE (mm)		2200	2215	1/4	10	Survey @ 2467.15m					
13000	152	85	152	85		2215	2315	1	5	Circulate, prepare to T.P. Work on Pump					
REDUCED PUMP SPEED						2315	2330	1/4	5	Prepare to Trip, Circulate.					
7200	@	35	@	247/2330	2400	1/2	6	Flow, Pump out of hole F/2475m - 2447m							
DEVIATION SURVEY															
DEPTH (m)		DEVIATION (°)		DIRECTION											
2467.15		4.8		343.5											
						NOTES									
						✓ Crown Saver Fastline Clamp Deadline Anchor, Brakes & Linkage.									
						Rider Blower Down 3x									
DRILLER SIGNATURE						BOILER ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Gavin Patrick						8		10.5		150000 TAN		Reaming Tight hole		1498 KPA	

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146024

LICENCE NO.: 900	WELL NAME AND NO.: Canadian Forest et al North Ward C-31
OPERATOR: Canadian Forest Oil LTD	CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: 300-C31-6040-12330-0	UNIQUE ID.: 300-C31-6040-12330-0
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]	SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

DAILY CHECKS

- (1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) IFS Signa Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Blasted
(6) BOP (if) 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/night/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kils checked

O.P.R. R.M.

Initial	Initial
Initial	Initial
Initial	Initial
Initial	Initial
Initial	Initial
Initial	Initial
Initial	Initial
Initial	Initial
Initial	Initial
Initial	Initial

YEAR: 2000	MONTH: 11	DAY: 16
RIG NO.: 58	FUEL @ 8:00	
RIG: 1.80	BOILER:	
W: TEMPERATURE °C	DC/DP SIZE	LINEAR MASS
E: CURRENT CONDITIONS	GRADE	MIN. ID
A: WIND DIRECTION	TOOL JT O.D.	TYPE
R: ROAD	NO. OF JOINTS	PUMP TYPE
	PUMP MANUFACTURER	STROKE LTH (mm)

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	315.34	106.2	157/c	K-55	55	711.20	6.47	710

DC/DP SIZE	LINEAR MASS	GRADE	MIN. ID	TOOL JT O.D.	TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH (mm)
175	194.8	DC	10	175	5/16	126	F-1000	EMSCO	254
175	194.8	DC	10	175	5/16	126	F-1000	EMSCO	254
175	194.8	DC	10	175	5/16	126	F-1000	EMSCO	254
175	194.8	DC	10	175	5/16	126	F-1000	EMSCO	254

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	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE	
	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING CORING	COND. MUD & CPG	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	HURPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MTG.									NO. TOPE						
	MORN		7 3/4				1/4																					8	2 DECK RIG F.L.C.		T.M.J-426890					
	DAY		7 1/4	1/4						1/2																		8	140	TOP 175	AMJ-2323					
	EVE		7				1/4			1/2											1/4							8	MIDDLE 140	MIDDLE 175	Accum Oil .35					
	TOTAL		22 3/4	1/4			1/2			1											1/4							24	BOTTOM 140	BOTTOM 175						

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD			
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	300	MUD TYPE	WATER BASED	TIME	02:00	04:00	06:00
1	RES. SUB	228	1.62	SIZE (mm)	311	DENSITY	1620	1625	1630		
2	ATPDC	228	2.05	IADC CODE	5317	FUNNEL VIS. (S/L)	88	88	85		
1	3PT KM	228	2.05	MFG.	REED	W.L. (cm)	9.0	9.0	9.0		
1	DC	228	18.67	TYPE	EHP53A	pH	10.0	10.0	10.0		
2	DC	228	18.67	SERIAL NO.	LX8411	P.V.T	80.5	82.5	83.9		
1	JAR	228	5.13	JETS (mm)	3x19.0						
6	DC	228	55.20	DEPTH OUT (m)		MUD MATERIALS ADDED					
1	X10	178	141.32	DEPTH IN (m)	2443	PRODUCT AMOUNT X UNIT					
15	DC	178	141.32	TOTAL METRES DRILLED (m)	13	DESILTER					
1	X10	178	141.32	TOTAL HOURS RUN	19/4	CENTRIFUGE					
1	D.P.	STANDS	2145.55	CUTTING STRUCTURE		HOURS RUN					
75	D.P.	SINGLES	2145.55			INTAKE DENSITY					
KELLY DOWN				HOLE CONDITION				DESILTER			
TOTAL				HOLE DRAG				CENTRIFUGE			
WT. OF DC				TORQUE AT BOTTOM				HOURS RUN			
WT. OF STRING				FILL ON BOTTOM (m)				INTAKE DENSITY			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD			
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	300	MUD TYPE	WATER BASED	TIME	09:00	12:00	15:00
1	RES. SUB	228	1.62	SIZE (mm)	311	DENSITY	1635	1635	1635		
2	ATPDC	228	2.05	IADC CODE	5317	FUNNEL VIS. (S/L)	83	85	82		
1	3PT KM	228	2.05	MFG.	REED	W.L. (cm)	8.8	8.6	7.0		
2	DC	228	18.67	TYPE	EHP53A	pH	10.0	10.0	10.2		
1	JAR	228	5.63	SERIAL NO.	LX8411	P.V.T	81.8	81.7	84.8		
6	DC	228	55.20	DEPTH OUT (m)		MUD MATERIALS ADDED					
1	X10	178	141.32	DEPTH IN (m)	2443	PRODUCT AMOUNT X UNIT					
15	DC	178	141.32	TOTAL METRES DRILLED (m)	19	DESILTER					
1	X10	178	141.32	TOTAL HOURS RUN	26 1/2	CENTRIFUGE					
1	D.P.	STANDS	2121.17	CUTTING STRUCTURE		HOURS RUN					
74	D.P.	SINGLES	18.80			INTAKE DENSITY					
KELLY DOWN				HOLE CONDITION				DESILTER			
TOTAL				HOLE DRAG				CENTRIFUGE			
WT. OF DC				TORQUE AT BOTTOM				HOURS RUN			
WT. OF STRING				FILL ON BOTTOM (m)				INTAKE DENSITY			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD			
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	300	MUD TYPE	WATER BASED	TIME	16:30	20:00	22:00
2	RES. SUB	228	1.62	SIZE (mm)	311	DENSITY	1630	1635	1630		
1	3PT KM	228	2.05	IADC CODE	5317	FUNNEL VIS. (S/L)	86	81	83		
2	DC	228	18.67	MFG.	REED	W.L. (cm)	8.0	7.8	7.8		
6	DC	228	55.20	TYPE	EHP53A	pH	10.0	10.0	10.0		
15	DC	178	141.32	SERIAL NO.	LX8411	P.V.T	85.0	85.2	85.3		
1	X10	178	141.32	DEPTH OUT (m)		MUD MATERIALS ADDED					
1	X10	178	141.32	DEPTH IN (m)	2443	PRODUCT AMOUNT X UNIT					
15	DC	178	141.32	TOTAL METRES DRILLED (m)	25	DESILTER					
1	X10	178	141.32	TOTAL HOURS RUN	33 1/2	CENTRIFUGE					
1	D.P.	STANDS	2151.68	CUTTING STRUCTURE		HOURS RUN					
75	D.P.	SINGLES	2151.68			INTAKE DENSITY					
KELLY DOWN				HOLE CONDITION				DESILTER			
TOTAL				HOLE DRAG				CENTRIFUGE			
WT. OF DC				TORQUE AT BOTTOM				HOURS RUN			
WT. OF STRING				FILL ON BOTTOM (m)				INTAKE DENSITY			

METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	ELAP. TIME	CODE NO.	FROM	TO	ELAP. TIME	CODE NO.				
2450	2456	6	65	0800	0945	145	2	DRILL 2450m - 2454m			
CIRCULATION PRESSURE (kPa)				PUMP NO. 1				PUMP NO. 2			
14500				152				152			
REDUCED PUMP SPEED				DEVIATION SURVEY							
DEPTH (m)				DEVIATION (°)				DIRECTION			
2450				4.4				348.7			
NOTES				DRILLER SIGNATURE				M.A.C.P.			
✓ Crown Saver Fastline Clamp, DEADLINE ANCHOR				8				140000 DAN			

METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	ELAP. TIME	CODE NO.	FROM	TO	ELAP. TIME	CODE NO.				
2456	2462	6	65	0945	1015	30	10	Drill 31mm hole F/2456m - 2458m			
CIRCULATION PRESSURE (kPa)				PUMP NO. 1				PUMP NO. 2			
13300				152				152			
REDUCED PUMP SPEED				DEVIATION SURVEY							
DEPTH (m)				DEVIATION (°)				DIRECTION			
2458				4.4				348.7			
NOTES				DRILLER SIGNATURE				M.A.C.P.			
✓ Crown Saver Fastline Clamp, DEADLINE ANCHOR				8				150000 DAN			

METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	ELAP. TIME	CODE NO.	FROM	TO	ELAP. TIME	CODE NO.				
2462	2468	6	65	1015	1145	130	14	Drill From 2462 - 2465m			
CIRCULATION PRESSURE (kPa)				PUMP NO. 1				PUMP NO. 2			
13300				152				152			
REDUCED PUMP SPEED				DEVIATION SURVEY							
DEPTH (m)				DEVIATION (°)				DIRECTION			
2468				4.4				348.7			
NOTES				DRILLER SIGNATURE				M.A.C.P.			
✓ Crown Saver Fastline Clamp, DEADLINE ANCHOR				8				140000 DAN			

146023

[illegible]

146022

LICENCE NO.: 1900	WELL NAME AND NO.: Canadian Forest at North Line c-31
OPERATOR: Canadian Forest Ltd	CONTRACTOR: Akita Drilling Ltd
SURFACE LOCATION: 300 C-31 6040 12330 C	UNIQUE ID.: 300 C-31 6040 12330 C
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) HPS Signs Posted (if required)	Initial	Initial
(4) Well License & Stock 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/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/month)	Initial	Initial
(3) Meet Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

YEAR	MONTH	DAY	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)
RIG NO.				339.7	325.34	1642	1874C	K55	45	711.20	6.47	710
FUEL @ 8:00												
RIG	BOILER											
WEATHER	TEMPERATURE	°C	LOG OF 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)
	CURRENT		176	176.1	DL	13	176	2 1/2"	17	F-1000	EMSCO	254
	CONDITIONS		127	74.5	NW	16	152	4 1/2"	17	F-1000	EMSCO	254
	WIND DIRECTION		127	38.67	E3	101	152	4 1/2"	17	F-1000	EMSCO	254
	ROAD		127	38.67	E3	101	152	4 1/2"	17	F-1000	EMSCO	254

[illegible]

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD			
NO	BIT	O.D. (mm)	LENGTH	BIT NO.	MUD TYPE ☒ WATER BASED ☐ OIL BASED						
			m	SIZE (mm)	TIME						
			m	IADC CODE	DENSITY kg/m ³						
			m	MFG.	FUNNEL VIS. - (S/L)						
			m	TYPE	W.L. (cm ³)						
			m	SERIAL NO.	pH						
			m	JETS (mm)							
			m	DEPTH OUT (m)	MUD MATERIALS ADDED		SOLIDS CONTROL				
			m	DEPTH IN (m)	PRODUCT	AMOUNT X UNIT	DESILTER				
			m	TOTAL METRES DRILLED (m)			HOURS RUN	INTAKE DENSITY (g/cm ³)			
			m	TOTAL HOURS RUN				OVERFLOW DENSITY (g/cm ³)			
			m	CUTTING STRUCTURE				CENTRIFUGE #1			
			m	MDC	LOC	B	Gage				
			m	Reason Filled				CENTRIFUGE #2			
			m	Total Run m/hr.							
			m	HOLE CONDITION							
			m	HOLE DRAG							
			m	TOTAL							
			m	WT. OF DC							
			m	WT. OF STRING							

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	DRD RMR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 rbf)		FROM	TO	ELAP. TIME	CODE NO.						
2443			60	35		0000	0045	3/4	2	DRILL 2443m - 2443.25					
						0045	0230	1 1/4	5	CIRC 13MM 3 MP					
						0230	0245	1/4	7	RB FLUORINOL BENTONITE CHUCK					
						0245	0330	3/4	22	CHANGE BROKEN SAM ON DRILLERS					
15700	02 80		02 80			0330	0445	1 1/4	6	Pump cut 1stds. P.O.H. Flow 10stds					
REDUCED PUMP SPEED						0445	0500	1/4	5	Pump fill					
	@		@			0500	0800	3	6	P.O.H. flow 40stds					
DEVIATION SURVEY															
DEPTH (m)		DEVIATION (°)		DIRECTION											
NOTES						✓ CROWN SAND & EASTLINE CLAMP DEADLINE ARRIVE BLIND BLOWER DOWN 3X									
DRILLER SIGNATURE						BOILER hrs. ran ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
[Signature]						8		10.5		150000 dwn		7.8.2019		1463 km	

DRILLING ASSEMBLY (At End of Tour)				LENGTH				BIT RECORD				MUD RECORD				
NO.	BIT		O.D. mm.		BIT NO.				MUD TYPE		☒ WATER-BASED		☐ OIL BASED			
1	BIT SUB			36	30C				TIME							
1	RIS SUB			84.60	SIZE (mm)	311			DENSITY kg/m ³							
1	WIDE		238	18.75	WOG CODE	537			FUNNEL VIS. - (S/L)							
1	3PT RICH			2.05	MFG.	Reed			W.L. (cm ²)							
1	DC		238	9.02	TYPE	EHP33A			pH							
1	3PT RICH			2.48	SERIAL NO.	LX8411										
1	S/S			3.81	JETS (mm)	3X19.0			MUD MATERIALS ADDED		SOLIDS CONTROL					
1	DC		338	18.67	DEPTH OUT (m)				PRODUCT		AMOUNT X UNIT		DESILTER			
1	DC		338	5.63	DEPTH IN (m)	3443										
6	DC		338	55.30	TOTAL METRES DRILLED (m)											
1	X10			1.40	TOTAL HOURS RUN											
1	DC		178	141.32												
1	X10			1.40												
1	HARD			58.10												
BHA: 316.68m																
D.P. STANDS					CUTTING STRUCTURE			B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE			
D.P. SINGLES					Y, T ₀			MDC	LOC				HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)
KELLY DOWN					HOLE CONDITION											
TOTAL					HOLE DRAG											
WT. OF DC				1000 daly	TORQUE AT BOTTOM											
WT. OF STRING				1000 daly	FILL ON BOTTOM (m)											

METRES DRILLED						TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R. R.P.M. CORE-O	ROTARY R.P.M.	WT. ON BIT (1000 lbs)	FROM	TO	ELAP. TIME	CODE NO.			
2443					0800	0930	1 1/2	6	P.O.O.H. Flow & H.W.P. out of Hole.		
					0930	1045	1 1/4	23	Insert Reamer Pulling Break Bit, lay down N.B.R. & Short DC.		
CIRCULATION PRESSURE (KPA)	PUMP NO. 1		PUMP NO. 2								
	LINEAR SIZE (mm)	S.P.M.	LINEAR SIZE (mm)	S.P.M.							
	152		152		1045	1100	1/4	7	R.I.S. Function Blind Ram 6 sec/c/s.		
					1100	1315	2 1/4	23	m/b bit make up New BHA, Flow		
Choke	REDUCED PUMP SPEED				1315	1345	1/2	20	Fill Pipe, Test ATWD.		
	@		@		1345	1415	1/2	6	R.I.H. to 720m		
DEVIATION SURVEY					1415	1430	1/4	20	Test ATWD		
DEPTH (m)	DEVIATION (°)	DIRECTION			1430	1515	3/4	9	Slip & cut 20m of Drill line. ✓ Crown Saver.		
TRIP RECORD					1515	1600	3/4	6	R.I.H. Fill Pipe every 50m.		
1045-18.49											
15.93											
DIFF- 2.56					NOTES ✓ Crown Saver Fast Line Clamp Deadline Anchor, Brakes & linkage. Boiler Blown down 3x						
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		
					HRS. RAN		STACK TEMP.		M.A.C.P.		
					8 10.0		350°F		Tripping 1163 KPA		

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD			
NO.		LENGTH		BIT NO.		MUD TYPE		☒ WATER BASED		☐ OIL BASED	
BIT		G.D. mm		SIZE (mm)		TIME					
1	1st Sub		18.75	300	311		20:00	22:00	24:00		
2	2nd Sub	18.75	18.75	537			1635	1630	1630		
3	3rd Sub	18.75	18.75	Reed			84	80	78		
4	4th Sub	18.75	18.75	EHP53A			9.5	8.0	8.0		
5	5th Sub	18.75	18.75	LX8411			10.0	10.0	10.0		
6	6th Sub	18.75	18.75	3x19.0			P.V.T	82.0	89.2	90.1	
7	7th Sub	18.75	18.75								
8	8th Sub	18.75	18.75								
9	9th Sub	18.75	18.75								
10	10th Sub	18.75	18.75								
11	11th Sub	18.75	18.75								
12	12th Sub	18.75	18.75								
13	13th Sub	18.75	18.75								
14	14th Sub	18.75	18.75								
15	15th Sub	18.75	18.75								
16	16th Sub	18.75	18.75								
17	17th Sub	18.75	18.75								
18	18th Sub	18.75	18.75								
19	19th Sub	18.75	18.75								
20	20th Sub	18.75	18.75								
21	21st Sub	18.75	18.75								
22	22nd Sub	18.75	18.75								
23	23rd Sub	18.75	18.75								
24	24th Sub	18.75	18.75								
25	25th Sub	18.75	18.75								
26	26th Sub	18.75	18.75								
27	27th Sub	18.75	18.75								
28	28th Sub	18.75	18.75								
29	29th Sub	18.75	18.75								
30	30th Sub	18.75	18.75								
31	31st Sub	18.75	18.75								
32	32nd Sub	18.75	18.75								
33	33rd Sub	18.75	18.75								
34	34th Sub	18.75	18.75								
35	35th Sub	18.75	18.75								
36	36th Sub	18.75	18.75								
37	37th Sub	18.75	18.75								
38	38th Sub	18.75	18.75								
39	39th Sub	18.75	18.75								
40	40th Sub	18.75	18.75								
41	41st Sub	18.75	18.75								
42	42nd Sub	18.75	18.75								
43	43rd Sub	18.75	18.75								
44	44th Sub	18.75	18								

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D.R.D. CORRECTION	ROTARY R.P.M.	WT. ON BIT (1000-lbs)	FROM	TO	ELAP. TIME	CODE NO.					
2443					1600	1715	1 1/4	8	R.T.H. Fill Pipe every 500 m.				
2447	2440	13	7	35	1715	1900	1 4/5	3	Ream F12427m - 2435m				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2			1900	2145	2 3/5	5	Circ. w/pump #1 & WORK ON Pump #2				
	LINEAR SIZE (mm)	S.P.M.	LINEAR SIZE (mm)	S.P.M.	2145	2400	2 1/4	3	REAM 2435m - 2440m				
1550	152 F0		152 F0										
REDUCED PUMP SPEED													
	@		@										
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)	DIRECTION											
					HOISTING LOAD LIMITS								
					MUST = 235800 dan								
					DRILL PIPE = 179680 dan								
					NOTES								
					CROWN SAYER FASTENING CLAMP DEADLINE A.K.HOR								
					ROUNDER BLANK DRILL 3X								
DRILLER SIGNATURE					HRS. RAN	BOILER ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
					8	155 350		150 000		Reaming		1495 kPa	

146021

[illegible]

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146020

LICENCE NO.: 1900	WELL NAME AND NO.: Canadian Forest et al North Ward C-31
OPERATOR: Canadian Forest Oil Ltd	CONTRACTOR: Akida Drilling Ltd
SURFACE LOCATION: 31-0-31-6040-18330-0	UNIQUE ID: 300-0-31-6040-18330-0
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]	SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

DAILY CHECKS

- (1) Daily Walk Around Inspection
 - (2) Detailed Inspection Weekly (using checklist)
 - (3) H/S Sign Posted (if required)
 - (4) Well Location & Back 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/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 Kils checked

O.P.R.

Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial

R.M.

Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial
Initial Initial

YEAR: 2000	MONTH: 11	DAY: 12
FUEL @ 8:00		
WATER		
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)
	379.7	315.34	142.2	157EC	K55	45	711.20	6.47	710

DC/OP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. I.D. (mm)	TOOL JT O.D. (mm)	TYPE - THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE (LTH. mm)
178	174E	DC	13	178	5H90	17	F-1000	EMSCO	254
152	143E	HW	7E	152	4E1F	13E	F-1000	EMSCO	254
127	127	E2	10E	127	4E1F	13E	F-1000	EMSCO	254

TIME	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	TOTALS	SHAPE SHAKER(S)	RENTALS/SERVICES	MORNING	DAY	EVE
MORNING	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	HEAVING CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	FEEL CASE & CEMENT	WAT ON CEMENT	WAT ON B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR WORK	SAFETY MTG.	WORK TIGHT											
DAY			7 1/2				1/4			1/4																							
EVE			7 1/2				1/2			1/4																							
TOTAL			21 1/2				3/4			1/2																							

DRILLING ASSEMBLY (At End of Tour)										BIT RECORD										MUD RECORD									
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	MUD TYPE	WATER BASED	OIL BASED	TIME	DENSITY	FUNNEL	W.L.	pH	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	CENTRIFUGE	CUTTING STRUCTURE	HOLE CONDITION	HOLE DRAG	TORQUE AT BOTTOM	FILL ON BOTTOM (m)								
1	NO. 29C	228	2.21	29C	311	537		02:00	1645	85	8.0	10.5	P.V.T	79.7	79.8	81.1													
2	NO. 29C	228	2.45	29C	311	537		04:00	1645	85	8.0	10.5	P.V.T	79.8	79.8	81.1													
3	NO. 29C	228	2.45	29C	311	537		06:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
4	NO. 29C	228	2.45	29C	311	537		08:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
5	NO. 29C	228	2.45	29C	311	537		10:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
6	NO. 29C	228	2.45	29C	311	537		12:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
7	NO. 29C	228	2.45	29C	311	537		14:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
8	NO. 29C	228	2.45	29C	311	537		16:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
9	NO. 29C	228	2.45	29C	311	537		18:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
10	NO. 29C	228	2.45	29C	311	537		20:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
11	NO. 29C	228	2.45	29C	311	537		22:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
12	NO. 29C	228	2.45	29C	311	537		24:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
13	NO. 29C	228	2.45	29C	311	537		26:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
14	NO. 29C	228	2.45	29C	311	537		28:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
15	NO. 29C	228	2.45	29C	311	537		30:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
16	NO. 29C	228	2.45	29C	311	537		32:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
17	NO. 29C	228	2.45	29C	311	537		34:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
18	NO. 29C	228	2.45	29C	311	537		36:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
19	NO. 29C	228	2.45	29C	311	537		38:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
20	NO. 29C	228	2.45	29C	311	537		40:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
21	NO. 29C	228	2.45	29C	311	537		42:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
22	NO. 29C	228	2.45	29C	311	537		44:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
23	NO. 29C	228	2.45	29C	311	537		46:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
24	NO. 29C	228	2.45	29C	311	537		48:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
25	NO. 29C	228	2.45	29C	311	537		50:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
26	NO. 29C	228	2.45	29C	311	537		52:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
27	NO. 29C	228	2.45	29C	311	537		54:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
28	NO. 29C	228	2.45	29C	311	537		56:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
29	NO. 29C	228	2.45	29C	311	537		58:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
30	NO. 29C	228	2.45	29C	311	537		60:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
31	NO. 29C	228	2.45	29C	311	537		62:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
32	NO. 29C	228	2.45	29C	311	537		64:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
33	NO. 29C	228	2.45	29C	311	537		66:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
34	NO. 29C	228	2.45	29C	311	537		68:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
35	NO. 29C	228	2.45	29C	311	537		70:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
36	NO. 29C	228	2.45	29C	311	537		72:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
37	NO. 29C	228	2.45	29C	311	537		74:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
38	NO. 29C	228	2.45	29C	311	537		76:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
39	NO. 29C	228	2.45	29C	311	537		78:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
40	NO. 29C	228	2.45	29C	311	537		80:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
41	NO. 29C	228	2.45	29C	311	537		82:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
42	NO. 29C	228	2.45	29C	311	537		84:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
43	NO. 29C	228	2.45	29C	311	537		86:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
44	NO. 29C	228	2.45	29C	311	537		88:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
45	NO. 29C	228	2.45	29C	311	537		90:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
46	NO. 29C	228	2.45	29C	311	537		92:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
47	NO. 29C	228	2.45	29C	311	537		94:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
48	NO. 29C	228	2.45	29C	311	537		96:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
49	NO. 29C	228	2.45	29C	311	537		98:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
50	NO. 29C	228	2.45	29C	311	537		100:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
51	NO. 29C	228	2.45	29C	311	537		102:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
52	NO. 29C	228	2.45	29C	311	537		104:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
53	NO. 29C	228	2.45	29C	311	537		106:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
54	NO. 29C	228	2.45	29C	311	537		108:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
55	NO. 29C	228	2.45	29C	311	537		110:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
56	NO. 29C	228	2.45	29C	311	537		112:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
57	NO. 29C	228	2.45	29C	311	537		114:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
58	NO. 29C	228	2.45	29C	311	537		116:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
59	NO. 29C	228	2.45	29C	311	537		118:00	1640	82	8.0	10.0	P.V.T	81.1	81.1	81.1													
60	NO. 29C	228	2.45																										

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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) HPS Signs Posted (if required)	Initial _____	Initial _____
(4) Wall License & Stock Diagram Posted	Initial _____	Initial _____
(5) Flang Lines Stained	Initial _____	Initial _____
(6) BOP Drills Performed	Initial _____	Initial _____
(7) Visually inspect BOP's - Firelines & Degasser Lines	Initial _____	Initial _____
(1) Rig Site Health and Safety Meeting (one/fore/month)	Initial _____	Initial _____
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/ing/month)	Initial _____	Initial _____
(3) Meet Inspection Before Raising or Lowering	Initial _____	Initial _____
(4) Crown Saver Checked	Initial _____	Initial _____
(5) Motor Kills checked	Initial _____	Initial _____

	YEAR 2006	MONTH 7	DAY 9	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)
RIG NO.	58			FUEL @ 8:00	331.7	315.34	111.2	BTC	MSS	55	711.20	6.47	710
H#	42	BOILER											
WEATHER	TEMPERATURE °C			DODP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JT O.D. A(mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS	17.5	17.5	BC	174.8	HC	123	175	A-110	17	E-1000	Emisco	154
	WIND DIRECTION	16.7	16.7	HW	71.35	EX	76	152	HEIF	18F	E-1000	Emisco	254
	ROAD	16.7	16.7	E-7	20.0	E-7	1.5	152	I	17G			

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DRILLING ASSEMBLY (At End of Tour)				LENGTH		BIT RECORD		MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
NO.	BIT	O.D. mm		BIT NO.		MUD TYPE	☐ WATER BASED	☐ OIL BASED	FROM	TO	D.P.D. / P.M.A. / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	CODE NO.						
1	2.21m	228	2.21m	228	2.21m	TIME			18:00	20:00	22:00			16:00	16:45	3/4	6	R.I.H TO 2387m					
1	2.21m	228	2.21m	228	2.21m	DENSITY kg/m ³			1635	1650	1650			16:45	20:00	3/4	3	Wash & Ream F 2397m-2406m					
1	2.21m	228	2.21m	228	2.21m	FUNNEL VIS. - (S/L)			81	82	81			20:00	24:00	4	2	DRILL 2406m - 2410m					
2	2.21m	228	2.21m	228	2.21m	W.L. (cm ³)			8.0	8.0	8.0												
1	2.21m	228	2.21m	228	2.21m	pH			10	10.0	10.0												
3	2.21m	228	2.21m	228	2.21m	JETS (mm)			73.5	72.4	73.9												
1	2.21m	228	2.21m	228	2.21m	DEPTH OUT (m)			MUD MATERIALS ADDED				SOLIDS CONTROL										
1	2.21m	228	2.21m	228	2.21m	DEPTH IN (m)			PRODUCT				AMOUNT X UNIT				DESILTER						
1	2.21m	228	2.21m	228	2.21m	TOTAL METRES DRILLED (m)			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL HOURS RUN			CENTRIFUGE				HOURS RUN				INTAKE DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	CUTTING STRUCTURE			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL METRES DRILLED (m)			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL HOURS RUN			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	CUTTING STRUCTURE			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL METRES DRILLED (m)			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL HOURS RUN			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	CUTTING STRUCTURE			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL METRES DRILLED (m)			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL HOURS RUN			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	CUTTING STRUCTURE			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL METRES DRILLED (m)			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL HOURS RUN			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	CUTTING STRUCTURE			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL METRES DRILLED (m)			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	TOTAL HOURS RUN			HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
1	2.21m	228	2.21m	228	2.21m	CUTTING STRUCTURE			HOURS RUN</														

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TIME - HRS	CODE NO.																										TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES						
	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		NO.	TYPE	MORN	DAY	EVE				
	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		6 1/2	1/2		1/4		1/4		1/2													B.O.P. Drill	Handle Tools							8	NO. 2	TYPE SERVICE FLL				
DAY					1 1/2	5 3/4																1/4	1/2							8	TOP 140	TOP 210	AMT 3562			
EVE						2 3/4	1/4	1 3/4								1/2							2 3/4							8	MIDDLE 140	MIDDLE 175	Accum Oil 35			
TOTAL		6 1/2	1/2		1 3/4	5 1/2	1/2	1 3/4	1/2							1/4						1/4	3 1/4							24	BOTTOM 140	BOTTOM 175				

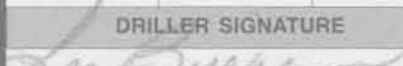
DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS																			
NO	BIT	O.D. mm	LENGTH	BIT NO					MUD TYPE	☒ WATER BASED	☐ OIL BASED	FROM	TO	DR-D M-D CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP TIME	CODE NO																			
				SIZE (mm)					TIME	09.00							0800	0915	1/4	5	Circulate bottoms up																		
				IADC CODE				DENSITY kg/m ³	1635									0915	1015	1	6	Flow P.O.O.H. to 2215m																	
				MFG					FUNNEL VIS. (S/L)	62							1015	1030	1/4	5	Pump Pill, Blow Kelly, Flow																		
				TYPE					W.L. (cm ²)	8.0							1030	1230	2	6	P.O.O.H. to 1069m																		
				SERIAL NO.					pH	10.0							1230	1245	1/4	20	B.O.P. Drill Well secure in 1 min.																		
				JETS (mm)				PVT m ³	81.5									1245	1530	2 3/4	6	Flow P.O.O.H. 1																	
				DEPTH OUT (m)					MUD MATERIALS ADDED				SOLIDS CONTROL								1530	1600	1/2	23	Pull M.W.D., lay down top manoh.														
				DEPTH IN (m)					PRODUCT	AMOUNT X UNIT					DESILTER																								
				TOTAL METRES DRILLED (m)					Baird	845x	HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)																									
				TOTAL HOURS RUN									CENTRIFUGE																										
	D.P.	STANDS		CUTTING STRUCTURE	T ₁	T ₀	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.									Trip Record - max - 17.71																	
	D.P.	SINGLES																		CAL - 15.22																			
	KELLYDOWN			HOLE CONDITION																DIFF. 2.49																			
	TOTAL			HOLE DRAG																NOTES																			
WT.OFDC				TORQUE AT BOTTOM																✓ Crown Saver, Fastline Clamp, Deadline Anchor, Brakes & Linkage																			
WT.OFSTRING				FILL ON BOTTOM (m)																Boiler Blown down 3x.																			
																DRILLER SIGNATURE				BOILER				MAXIMUM EXPERIENCED HOOKLOAD				SAFETY TOPIC				M.A.C.P.							
																HRS. RUN				ph				STACK TEMP.															
																8				16.5				3500				140000 daN				Tripping				146H KPA			

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YEAR	MONTH	DAY	LAST	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)
1980	11	01	CASING	339.7	315.30	104.2	BT+C	K55	55	74.20	6.47	7.10
FUEL @ 8:00			TUBING									
OR												
1980	11	01	LINER									
FUEL @ 8:00												
OR												
FUEL @ 8:00												
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FUEL @ 8:00												
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METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	D&D R.M.A. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	CODE NO.			
2388	2391	3	MTR	36	0800	0015	1/4	10	SURVEY		
					0015	0800	13 1/2	2	DRILL 2388m - 2391		
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2								
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.							
16400	15282		15282								
REDUCED PUMP SPEED											
6900	@	90	@	2388							
DEVIATION SURVEY											
DEPTH (m)	DEVIATION (°)		DIRECTION								
2368.75	.9		82.8								
NOTES					CHECK CHAIN/ SADDLE FASTENIDE CLAMP DANGLE INTO ANCHOR & SPARE LUGAGE Boiler Blow down 3x						
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		
					HRS. RAN	ph	STACK TEMP.	Boiler (1st)		1255 kPa	
					8	12.350*	130.000				

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METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	R.D. R.M.R CORE C	ROTARY R.P.M.	WT. ON BIT (100 lb/in)	FROM	TO	ELAP. TIME	CODE NO.					
2396	2401	S	30+	30	1600	1730	1/2	2	Drill 31mm hole F/2396m-2397m.				
		Slide	m=65		1730	1745	1/4	5	Work & Clean Hole.				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2		1745	1800	1/4	10	Survey @ 2397.35				
	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.	1800	1845	3/4	2	Drill F/2397m-2397.75m				
16500	152	82	152	82	1845	1915	1/2	5	Work on Pump #1, Circulate & Work Pipe.				
REDUCED PUMP SPEED					1915	2400	4 3/4	2	Drill F/2397.75m - 2401m				
7800	@	190	@	397									
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (%)		DIRECTION										
2397.35	1.4		22.6										
					NOTES ✓ Crown Saver Fastline Clamp Deadline Anchor, Brakes & Linkage. Boiler Blowdown 3X. Function Recepte Checks								
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
Garry Patank					HRS. RUN	ph	STACK TEMP.	140000 DAN		AVERT Policy		1395 APA	

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LICENCE NO.: 1900	WELL NAME AND NO.: CANADIAN FOREST ETAL NORTH LIARD C-31
OPERATOR: CANADIAN FOREST OIL	CONTRACTOR: ALTA DRILLING LTD
SURFACE LOCATION: 300 C 31 60240 12330-0	UNIQUE ID.: 300 C-31 60240 12330-0
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) HFS Signs Posted (if required)	Initial	Initial
(4) Well License & Stock 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/week/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/week/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: 2003	MONTH: 11	DAY: 01	LAST CASING TUBING OR LINER	O.D. (mm): 337.1	MIN. I.D. (mm): 315.3	kg/m: 116.2	MAKE: BT+C	GRADE: K55	NO. OF JOINTS: 55	TOTAL(m) LENGTH: 711.20	KB. TO CSG HEAD (m): 6.47	SET AT (m): 710	
RIG NO.: 58	FUEL @ 8:00	BOILER	TEMPERATURE °C: 127	DCOP SIZE (mm): 127	LINEAR MASS (kg/m): 24.35	GRADE: HWDPA	MIN. I.D. (mm): 76	TOOL JOINT O.D. (mm): 158	TYPE: 4 1/2	NO. OF JOINTS: 17	PUMP TYPE: F1000	PUMP MANUFACTURER: BMSCO	STROKE LTH. (mm): 254
W. WEATHER	CURRENT CONDITIONS: 127	WIND DIRECTION: 127	ROAD: 127	DCOP SIZE (mm): 127	LINEAR MASS (kg/m): 24.35	GRADE: HWDPA	MIN. I.D. (mm): 76	TOOL JOINT O.D. (mm): 158	TYPE: 4 1/2	NO. OF JOINTS: 17	PUMP TYPE: F1000	PUMP MANUFACTURER: BMSCO	STROKE LTH. (mm): 254

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	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MOON	DAY	EVE							
	OPR.	DRILL UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CEMENT	TRIPS	IRG SERVICE	REPAIR RIG	CUT OFF CUT LINE	DEV SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WASH ON CEMENT	NOBLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	ROVING/CEMENT	FISHING	DR WORK	SAFETY MTG.							NO. TYPE													
	MORN.		2				PM 3 3/4															1/2																8	SCREENS CHANGED ☐ YES ☐ NO			
	DAY								1/4													1		1 1/4														8	TOP 175	TOP 150	AMS 891	
EVE		1 1/4	3/4			1/2 3 1/2				3/4	1										1/4								8	MIDDLE 175	MIDDLE 140	Accum OIL										
TOTAL		2 1/4	3/4			2 1/2 12 3/4		1/4		3/4	1										1 3/4		1 1/4						14	BOTTOM 175	BOTTOM 140											

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED	TIME	DENSITY kg/m ³	FUNNEL VIS. (S/L)	W.L. (cm ³)	PH	P.V.T. m ³	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METRES DRILLED (m)	TOTAL HOURS RUN	CUTTING STRUCTURE	STANDS	SINGLES	KELLY DOWN	TOTAL	WT. OF DC	WT. OF STRING
1	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
2	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
3	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
4	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
5	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
6	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
7	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
8	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
9	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
10	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
11	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
12	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
13	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
14	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
15	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
16	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
17	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
18	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
19	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
20	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
21	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
22	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
23	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
24	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
25	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
26	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
27	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
28	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
29	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
30	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
31	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
32	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
33	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
34	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
35	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
36	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
37	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
38	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
39	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
40	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
41	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
42	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
43	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
44	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
45	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
46	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
47	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
48	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
49	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349	36	6234					2387	37000	107000
50	BIT	0.0	29C	311	1635			02:00	1635	74	8.8	10.5	89.4	2349	2349									

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153719

LICENCE NO.: 1900	WELL NAME AND NO.: CANDIAN FOREST ETAL WILSON LIARD C-31
OPERATOR: CANDIAN FOREST OIL	CONTRACTOR: ALTA DRILLING LTD
SURFACE LOCATION: 300 C-31 6040 12330-0	UNIQUE ID.: 300 C-31 6040 12330-0
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-Walks (using checklist)	Initial	Initial
(3) H/S Signs Posted (if required)	Initial	Initial
(4) Well License & Stock Diagram Posted	Initial	Initial
(5) Flare Limit Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flammable & Degreaser 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 crew/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Survey Checked		Initial
(5) Motor Kicks checked		Initial

YEAR	MONTH	DAY	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)
RIG NO.	58			FUEL @ 8:00	337.7	315.34	410	BTAC	R3533	3110	647	710
RIG	110			BOILER								
WEATHER												
TEMPERATURE	°C		DCDP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN TO (mm)	TOOL JOINT (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
CURRENT CONDITIONS			157	150.35	HWAP-76	158	156	157	158	F1000	EMISCO	259
WIND DIRECTION			127	39.07	E3	101	156	156	158	F1000	EMISCO	259
ROAD			127	39.07	E3	101	156	156	158	F1000	EMISCO	259

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	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MOFFS	DAY
		OPER. RIG UP & TEAR DOWN	DRAILL ACTUAL DRAILL	REAMING	CORRING	CONDUIT & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRAILL LINE	DEV SURVEY	WIRE LINE LOGS	REN GAGE & CEMENT	WAIT ON CEMENT	HOPPER UP B.O.P.	TEST B.O.P.	DRAILL STEM TEST	RILG BACK	SQUEEZE CEMENT	FISHING	OIL WORK	SAFETY MTG.								NO.	TYPE			
MORN.		7 3/4																					WORK ON PLANT						8	2 DOORLOCK LLC	TMS 413 472			
DAY.		7																										8	SCREENS CHANGED YES ☐ NO ☒	TMS 4810				
EVE.		7 3/4									1/4																	8	TOP 175 #2 TGP #140*	ACCIDENT OIL - 36				
TOTAL		23 3/4									1/4																	24	BOTTOM 140 BOTTOM 140*					

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD																													
NO	BIT	O.D. mm	LENGTH	BIT NO.	SIZE (mm)	IADC CODE	MFG.	TYPE	SERIAL NO.	JETS	DEPTH OUT	DEPTH IN	TOTAL METRES DRILLED	TOTAL HOURS RUN	CUTTING STRUCTURE	B	Gage	ODC	Reason Pulled	Total Run m/hr.	MUD TYPE	WATER BASED	OIL BASED	TIME	DENSITY kg/m ³	FUNNEL VIS. - (SL)	WL (cm ³)	pH	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	CENTRIFUGE	HOURS RUN	INTAKE DENSITY (kgm ³)	OVERFLOW DENSITY (kgm ³)	UNDERFLOW DENSITY (kgm ³)	
2	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
3	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
4	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
5	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
6	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
7	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
8	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
9	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
10	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
11	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	92.0	95.0				
12	278	278	1.78	278	3 1/4	5 3 7	RECO	EMP 53A	L x 8415	3 x 22/1	201.79	284.9	14	253/4	Y	Y						MUD TYPE	WATER BASED	OIL BASED	02:00	116.35	82	8.3	10.2	P.V.T. 3	90.1	9					

METRES DRILLED						TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	GRD RMT CORREC	ROTARY R.P.M.	WT ON BIT (1000 LBS)	FROM	TO	ELAP. TIME	CODE NO.			
2358	2363	5	MTK	35	0000	0015	1/4	22	Work on No 1 Pump.		
					0015	0800	7 1/4	3	DRILL 2358m. - 2363m		
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2							
		LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.						
17400		152		152							
REDUCED PUMP SPEED											
6800		@	85	@	258						
DEVIATION SURVEY											
DEPTH (m)		DEVIATION (°)		DIRECTION							
						TRANSFERRED 6 m ³ OF GEL - Active					
CAUSTIC 15x BARITE 168 5x5						NOTES: Check mudwater. Fasten up mud pump. Add new BARITE. Linkage. Boiler Blow down 3x1					
DRILLER SIGNATURE						BOILER HRS. RAN ph. STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	
						8 105		125 000		100% CONDITIONS	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD							
NO	LENGTH		BIT NO.	MUD TYPE			WATER BASED			OIL BASED					
1	BIT	O.D. (mm)	SIZE (mm)	TIME	08:00	10:00	12:00	DENSITY kg/m ³	1635	1635	1625	FUNNEL VIS. (S/L)	79	79	82
2	NHDI	228	5 3/4	IADC CODE	5 3/4			W.L. (cm ³)	8.0	8.5	8.5	pH	10.5	10.5	10.0
3	OK	228	KEED	MFG.	KEED										
4	JAR	5.22	ENP53A	TYPE	ENP53A										
5	DL	228	128415	SERIAL NO.	128415										
6	1/2	1.40	3X22.1	JETS (mm)	3X22.1										
7	DC	178	112.81	DEPTH OUT (m)				MUD MATERIALS ADDED			SOLIDS CONTROL				
8	1/2	1.41	2349	DEPTH IN (m)	2349			PRODUCT	AMOUNT X UNIT	DESILTER					
9	HWDI	187	2715	TOTAL METRES DRILLED (m)	15			Corinex	1 PL	HOURS RUN	INTAKE DENSITY (g/cm ³)	OVERFLOW DENSITY (g/cm ³)	UNDERFLOW DENSITY (g/cm ³)		
10	CHN	228.74	3274	TOTAL HOURS RUN	3274			Chomide	1 PL						
11	D.P.	STANDS	CUTTING STRUCTURE				B	Gage	ODC	Reason Pulled	Total Run m/hr.	CENTRIFUGE			
12	D.P.	SINGLES	T ₁	T ₂	MDG	LOC									
13	KELLY DOWN	2102.70	HOLE CONDITION								CENTRIFUGE				
14	WICKING	118	HOLE DRAG								CENTRIFUGE				
15	TOTAL	2317.21	TORQUE AT BOTTOM								CENTRIFUGE				
16	WT. OF DC	37000	FILL ON BOTTOM (m)								CENTRIFUGE				
17	WT. OF STRING	15400									CENTRIFUGE				

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	O.D. R.M.R. O.D.R.E-C	ROTARY R.P.M.	WT. ON BIT (TONS)		FROM	TO	ELAP. TIME	CODE NO.				
2363	2367	4	1170	34.5		0800	0900	1	22	CHANGE HEAD & LINER (N Pump #1)			
						0900	1800	7	2	DRILL 2363m - 2367m (Sliding)			
CIRCULATION PRESSURE (KPa)	PUMP NO. 1	PUMP NO. 2											
LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.										
15-600	152	81	152	71									
REDUCED PUMP SPEED													
1800	@	234m	@	60									
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)	DIRECTION											
NOTES						VORON SAYER FASTLINE CLAMP DEADLINE ANCHOR BLOW SCIRKER DOWN "3X"							
DRILLER SIGNATURE						BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
<i>[Signature]</i>						6 16.5		135000 Dm				1533 kg	

[illegible]

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. R.M.R. CONE C	ROTARY R.P.M.	WT. ON BIT (1000 lbs)	FROM	TO	ELAP TIME	CODE NO.				
2317	2372	5	MIR	35	1100	1730	1 1/2	2	DRILL 2317m - 2368m			
					1730	1845	1 1/4	10	SURVEY @ 2350.60m			
					1745	2400	6 1/4	2	DRILL 2368m - 2372			
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2								
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.							
16600		152	81	152	81							
REDUCED PUMP SPEED												
		@		@								
DEVIATION SURVEY												
DEPTH (m)	DEVIATION (°)	DIRECTION										
2350.6	2.3	152.2										
NOTES												
CHECK CHAIN SLIDER FASTENING CHAIN-DEAD END ANCHOR BRACKLE												
LINKAGE Boiler Blow down 3x												
DRILLER SIGNATURE					BOILER HRS. RAN ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	
Jes. B. B. B.					8		105				Subst. Control	

153717

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	T O T A L S	SHALE SHAKER(S)		RENTALS/SERVICES		MOON	DAY	WIND	SEA	TEMP	HOURS
		WIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CONC. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	TELE. CASE & CEMENT	WALT ON CEMENT	NIPPLE UP & O.P.	TEST. B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.								NO. TYPE								
MORN									8																			8	NO. TYPE	FLC	TOP	412131						
DAY									8																			8	SCREENS CHANGED ☐ YES ☐ NO		AMS	3461						
EVE									8																			8	TOP: 175	TOP: 175								
TOTAL									24																			24	MIDDLE: 140	MIDDLE: 140	ACCUM OIL	36						
																													BOTTOM: 175	BOTTOM: 140								

[illegible]

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153716

LICENCE NO.: 1840	WELL NAME AND NO.: CANADIAN FOREST ETAL NORTH LIARD C-31
OPERATOR: CANADIAN FOREST OIL	CONTRACTOR: AKITA DRILLING LTD
SURFACE LOCATION: 300 C-31 6040 12330-0	UNIQUE ID.: 300 C-31 6040 12330-0
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) 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 Inspected BOP's - Flarelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once a week/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once a month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kits checked	Initial	Initial

YEAR: 2020	MONTH: 11	DAY: 03
RIG NO.: 58	FUEL @ 8:00: .51	WEATHER: [Blank]
LAST CASING TUBING OR LINER: [Blank]	O.D. (mm): 339.7	MIN. I.D. (mm): 315.34
GRADE: K55	NO. OF JOINTS: 55	TOTAL (m) LENGTH: 711.20
MAKE: BT4C	KB TO CSG HEAD (m): 6.47	SET AT (m): 710
TEMPERATURE: -C	DOPP SIZE (mm): 137	LINEAR MASS (kg/m): 29.07
CURRENT CONDITIONS: 127	GRADE: E2	MIN ID (mm): 156
WIND DIRECTION: 127	TOOL JT O.D. (mm): 156	TYPE: 4142
ROAD: 127	NO. OF JOINTS: 17	PUMP TYPE: F-1000
		PUMP MANUFACTURER: EMSCO
		STROKE LTH. (mm): 254

TIME	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	TOTALS	SHALE SHAKER(S)	RENTALS/SERVICES	MORPH	DAY	EVE
OPER.	RIG UP & TEST DOWN	DRILL ACTUAL	REAMING CORING	COND. M.O.C. & C.B.C.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	PIPELINE UP	TEST B.O.P.	DRILL STEM TEST	RUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.													
MORPH.																																	
DAY																																	
EVE																																	
TOTAL																																	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD					
NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED	TIME	DENSITY (kg/m³)	FUNNEL VIS. (S/L)	W.L. (cm³)	pH
1	28C	228	11.25	311	53.7	REED							
2	28C	228	11.25	311	53.7	REED							
3	28C	228	11.25	311	53.7	REED							
4	28C	228	11.25	311	53.7	REED							
5	28C	228	11.25	311	53.7	REED							
6	28C	228	11.25	311	53.7	REED							
7	28C	228	11.25	311	53.7	REED							
8	28C	228	11.25	311	53.7	REED							
9	28C	228	11.25	311	53.7	REED							
10	28C	228	11.25	311	53.7	REED							
11	28C	228	11.25	311	53.7	REED							
12	28C	228	11.25	311	53.7	REED							
13	28C	228	11.25	311	53.7	REED							
14	28C	228	11.25	311	53.7	REED							
15	28C	228	11.25	311	53.7	REED							
16	28C	228	11.25	311	53.7	REED							
17	28C	228	11.25	311	53.7	REED							
18	28C	228	11.25	311	53.7	REED							
19	28C	228	11.25	311	53.7	REED							
20	28C	228	11.25	311	53.7	REED							
21	28C	228	11.25	311	53.7	REED							
22	28C	228	11.25	311	53.7	REED							
23	28C	228	11.25	311	53.7	REED							
24	28C	228	11.25	311	53.7	REED							
25	28C	228	11.25	311	53.7	REED							
26	28C	228	11.25	311	53.7	REED							
27	28C	228	11.25	311	53.7	REED							
28	28C	228	11.25	311	53.7	REED							
29	28C	228	11.25	311	53.7	REED							
30	28C	228	11.25	311	53.7	REED							
31	28C	228	11.25	311	53.7	REED							
32	28C	228	11.25	311	53.7	REED							
33	28C	228	11.25	311	53.7	REED							
34	28C	228	11.25	311	53.7	REED							
35	28C	228	11.25	311	53.7	REED							
36	28C	228	11.25	311	53.7	REED							
37	28C	228	11.25	311	53.7	REED							
38	28C	228	11.25	311	53.7	REED							
39	28C	228	11.25	311	53.7	REED							
40	28C	228	11.25	311	53.7	REED							
41	28C	228	11.25	311	53.7	REED							
42	28C	228	11.25	311	53.7	REED							
43	28C	228	11.25	311	53.7	REED							
44	28C	228	11.25	311	53.7	REED							
45	28C	228	11.25	311	53.7	REED							
46	28C	228	11.25	311	53.7	REED							
47	28C	228	11.25	311	53.7	REED							
48	28C	228	11.25	311	53.7	REED							
49	28C	228	11.25	311	53.7	REED							
50	28C	228	11.25	311	53.7	REED							
51	28C	228	11.25	311	53.7	REED							
52	28C	228	11.25	311	53.7	REED							
53	28C	228	11.25	311	53.7	REED							
54	28C	228	11.25	311	53.7	REED							
55	28C	228	11.25	311	53.7	REED							
56	28C	228	11.25	311	53.7	REED							
57	28C	228	11.25	311	53.7	REED							
58	28C	228	11.25	311	53.7	REED							
59	28C	228	11.25	311	53.7	REED							
60	28C	228	11.25	311	53.7	REED							
61	28C	228	11.25	311	53.7	REED							
62	28C	228	11.25	311	53.7	REED							
63	28C	228	11.25	311	53.7	REED							
64	28C	228	11.25	311	53.7	REED							
65	28C	228	11.25	311	53.7	REED							
66	28C	228	11.25	311	53.7	REED							
67	28C	228	11.25	311	53.7	REED							
68	28C	228	11.25	311	53.7	REED							
69	28C	228	11.25	311	53.7	REED							
70	28C	228	11.25	311	53.7	REED							
71	28C	228	11.25	311	53.7	REED							
72	28C	228	11.25	311	53.7	REED							
73	28C	228	11.25	311	53.7	REED							
74	28C	228	11.25	311	53.7	REED							
75	28C	228	11.25	311	53.7	REED							
76	28C	228	11.25	311	53.7	REED							
77	28C	228	11.25	311	53.7	REED							
78	28C	228	11.25	311	53.7	REED							
79	28C	228	11.25	311	53.7	REED							
80	28C	228	11.25	311	53.7	REED							
81	28C	228	11.25	311	53.7	REED							
82	28C	228	11.25	311	53.7	REED							
83	28C	228	11.25	311	53.7	REED							
84	28C	228	11.25	311	53.7	REED							
85	28C	228	11.25	311	53.7	REED							
86	28C	228	11.25	311	53.7	REED							
87	28C	228	11.25	311	53.7	REED							
88	28C	228	11.25	311	53.7	REED							
89	28C	228	11.25	311	53.7	REED							
90	28C	228	11.25	311	53.7	REED							
91	28C	228	11.25	311	53.7	REED							
92	28C	228	11.25	311	53.7	REED							
93	28C	228	11.25	311	53.7	REED							
94	28C	228	11.25	311	53.7	REED							
95	28C	228	11.25	311	53.7	REED							
96	28C	228	11.25	311	53.7	REED							
97	28C	228	11.25	311	53.7	REED							
98	28C	228	11.25	311	53.7	REED							
99	28C	228	11.25	311	53.7	REED							
100	28C	228	11.25	311	53.7	REED							
101	28C	228	11.25	311	53.7	REED							
102	28C	228	11.25	311	53.7	REED							
103	28C	228	11.25	311	53.7	REED							
104	28C	228	11.25	311	53.7	REED							
105	28C	228	11.25	311	53.7	REED							
106	28C	228	11.25	311	53.7	REED							
107	28C	228	11.25	311	53.7	REED							
108	28C	228	11.25	311	53.7	REED							
109	28C	228	11.25	311	53.7	REED							
110	28C	228	11.25	311	53.7	REED							
111	28C	228	11.25	311	53.7	REED							
112	28C	228	11.25										

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153715

LICENCE NO.: 1900 WELL NAME AND NO.: Canadian Forest et al North Liard C31

OPERATOR: Canadian Forest Oil CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: 309-C31-6040-12330-00 UNIQUE ID: 300-C31-6040-12330-0

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

DAILY CHECKS

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

OPR. Initial
R.M. Initial

(1) Rig Site Health and Safety Meeting (once/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 Kils checked

Initial
Initial
Initial
Initial
Initial

YEAR: 2008 MONTH: 11 DAY: 02

RIG NO: 58

FUEL @ 8:00

BOILER

WEATHER

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

LAST CASING TUBING OR LINER

O.D. (mm) 339.7

MIN. I.D. (mm) 315.34

kg/m 101.2

MAKE 8T4C

GRADE K55

NO. OF JOINTS 55

TOTAL (m) LENGTH 716.20

KB TO CSG HEAD (m) 647

SET AT (m) 710

DC/DP SIZE (mm) 238

LINEAR MASS (kg/m) 174.0

GRADE DC

MIN. I.D. (mm) 63

TOOL JOINT O.D. (mm) 178

TYPE 5H90

NO. OF JOINTS 26

PUMP TYPE F-1000

PUMP MANUFACTURER EMSCO

STROKE LTH. (mm) 254

DC/DP SIZE (mm) 178

LINEAR MASS (kg/m) 174.0

GRADE DC

MIN. I.D. (mm) 63

TOOL JOINT O.D. (mm) 178

TYPE 5H90

NO. OF JOINTS 26

PUMP TYPE F-1000

PUMP MANUFACTURER EMSCO

STROKE LTH. (mm) 254

DC/DP SIZE (mm) 178

LINEAR MASS (kg/m) 174.0

GRADE DC

MIN. I.D. (mm) 63

TOOL JOINT O.D. (mm) 178

TYPE 5H90

NO. OF JOINTS 26

PUMP TYPE F-1000

PUMP MANUFACTURER EMSCO

STROKE LTH. (mm) 254

T I M E - H R S	CODE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
	OPER.	RIG UP & TEST DOWN	DRILL ACTUAL	REAMING	CORING	CONC. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOGS	W/LN CASE & CEMENT	WAIT ON CEMENT	NEP/LE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	ROUSE/SE CEMENT	FISHING	DIRL WORK	SAFETY MTG.	Clean Screen	16.4
	MORN.		7					12			14													7 1/4
	DAY		3/4				2 1/4	1 1/4	1 1/4															
	EVE						1 1/4	1/4	2 1/4															
	TOTAL		7 3/4				2 1/4	1 1/2	3 1/4	1 1/4		1 1/4												7 1/4

DRILLING ASSEMBLY (At End of Tour)

BIT NO. 27C

SIZE (mm) 311

ADG CODE 517X

MFG. Smith

TYPE F2

SERIAL NO. LY1653

JETS 3x22.1

DEPTH OUT (m) 2326

DEPTH IN (m) 2326

TOTAL METRES DRILLED (m) 23

TOTAL HOURS RUN 2342

CUTTING STRUCTURE

D.P. STANDS 2084.06

D.P. SINGLES

KELLYDOWN

TOTAL 2349.00

WT.OFDC 37000

WT.OFSTRING 103000

MUD RECORD

MUD TYPE WATER BASED

TIME 02:00 04:00 06:00

DENSITY kg/m³ 1625 1625 1630

FUNNEL VIS. - (SL) 80 84 83

W.L. (cm³) 7.0 7.4 7.5

pH 10.5 10.5 10.5

PT. m³ 87.2 91.4 94.4

MUD MATERIALS ADDED

SOLIDS CONTROL

PRODUCT AMOUNT X UNIT

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG 15000 13000 13000

TORQUE AT BOTTOM 12-13000 FT/LD

FILL ON BOTTOM (m)

DRILLING ASSEMBLY (At End of Tour)

BIT NO. 27C

SIZE (mm) 311

ADG CODE 517X

MFG. Smith

TYPE F2

SERIAL NO. LY1653

JETS 3x22.1

DEPTH OUT (m) 2347

DEPTH IN (m) 2326

TOTAL METRES DRILLED (m) 23

TOTAL HOURS RUN 2344

CUTTING STRUCTURE

D.P. STANDS 2012.99

D.P. SINGLES

KELLYDOWN

TOTAL 2349

WT.OFDC 37000

WT.OFSTRING 103000

MUD RECORD

MUD TYPE WATER BASED

TIME 08:00

DENSITY kg/m³ 1630

FUNNEL VIS. - (SL) 82

W.L. (cm³) 9.0

pH 10.5

PT. m³ 93.1

MUD MATERIALS ADDED

SOLIDS CONTROL

PRODUCT AMOUNT X UNIT

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG 13000 13000 13000

TORQUE AT BOTTOM 12000-13000 FT/LD

FILL ON BOTTOM (m)

DRILLING ASSEMBLY (At End of Tour)

BIT NO. 26C

SIZE (mm) 311

ADG CODE 537

MFG. REED

TYPE ENPS3A

SERIAL NO. LX8415

JETS 3x22.1

DEPTH OUT (m) 2349

DEPTH IN (m) 2349

TOTAL METRES DRILLED (m) 2349

TOTAL HOURS RUN

CUTTING STRUCTURE

D.P. STANDS 458.82

D.P. SINGLES

KELLYDOWN

TOTAL 704.81

WT.OFDC 37000

WT.OFSTRING 50000

MUD RECORD

MUD TYPE WATER BASED

TIME 15:00

DENSITY kg/m³ 15.00

FUNNEL VIS. - (SL) 15.00

W.L. (cm³) 17.76

pH 2.76

MUD MATERIALS ADDED

SOLIDS CONTROL

PRODUCT AMOUNT X UNIT

DESILTER

CENTRIFUGE

HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM TO

2341 2349

00:00 04:15

4/4 2

Drill 311mm hole F/2341m - 2345m

04:15 04:30

1/4 2

Clean Pipe Screen

04:30 06:00

1/2 2

Drill F/2345m - 2347m

06:00 06:30

1/2 7

RIS

06:30 06:45

1/4 10

Drill Survey @ 2331.28m

06:45 08:00

1/4 2

Drill F/2347m - 2349m

REDUCED PUMP SPEED

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

2331.28 3.2 160.6

NOTES

Crown Saver, Fastline Clamp, Deadline Anchor, Brokes & Linkage

Boiler Blown down 3 Times

DRILLER SIGNATURE

BOILER

HRS. RAN ph STACK TEMP.

MAXIMUM EXPERIENCED HOOKLOAD

SAFETY TOPIC

M.A.C.P.

195000 D/W Water Usage 1448 KPA

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM TO

2349 2349

08:00 08:45

3/4 2

DRILL 2349m -

08:45 10:00

1/4 8

CIRC & WORK RPS WHILE CRAW TRACTION

10:00 11:45

1/4 6

POOH BACK REAM 5 STDS To 2068

11:45 12:30

3/4 5

CIRC & BUILD PILL.

12:30 16:00

3/4 6

POOH 2068m - 522m

REDUCED PUMP SPEED

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

NOTES

Check Crown Saver - Fastline Clamp, Deadline Anchor, BRAKES LINKAGE

Blow Boiler Down 3 Times

DRILLER SIGNATURE

BOILER

HRS. RAN ph STACK TEMP.

MAXIMUM EXPERIENCED HOOKLOAD

SAFETY TOPIC

M.A.C.P.

Watch Dog Mtg. 1448 KPA

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

FROM TO

2349 2349

16:00 18:00

2 6

POOH Monitor 1/4 OUT OF HOLE

18:00 18:45

3/4 23

CHECK MUD TOOLS & CHANGE BIT

18:45 19:00

1/4 7

KB Traction Blind Rms & Seal. Ks

19:00 21:15

2/4 6

R.J.H. TO 704m

21:15 24:00

2/4 8

TEAR OUT TRACTION MOTOR FOR #1 Pump

REDUCED PUMP SPEED

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

NOTE

Crown Saver, Fastline Clamp, Deadline Anchor

Blow Boiler Down 3X

DRILLER SIGNATURE

BOILER

HRS. RAN ph STACK TEMP.

MAXIMUM EXPERIENCED HOOKLOAD

SAFETY TOPIC

M.A.C.P.

1448 KPA

FOLD HERE →

153714

LICENCE NO.: 1900	WELL NAME AND NO.: Canadian Forest et al North Liard C31
OPERATOR: Canadian Forest Oil	CONTRACTOR: Akito Drilling LTD
SURFACE LOCATION: 300-C31-6040-12330-0	UNIQUE ID: 300-C31-6040-12330-0
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]	SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

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

YEAR: 2000 MONTH: 11 DAY: 01	LAST CASING TUBING OR LINER	O.D. (mm): 339.7	MIN. I.D. (mm): 315.34	kg/m: 101.2	MAKE: BT4C	GRADE: K55	NO. OF JOINTS: 55	TOTAL(m) LENGTH: 711.20	KB TO CSG HEAD (m): 6.47	SET AT (m): 710		
RIG NO. 58	FUEL @ 8:00	TEMPERATURE °C: 22.0	DC/DP SIZE (mm): 22.0	LINEAR MASS (kg/m): 22.0	GRADE: DC	MIN. ID (mm): 22.0	TOOL JOINT O.D. (mm): 22.0	TYPE THREAD: 5/8" 11	NO. OF JOINTS: 26	PUMP TYPE: F-1000	PUMP MANUFACTURER: Emsco	STROKE LTH. (mm): 254
RIG 1.30	BOILER	CURRENT CONDITIONS: 17.0	TEMPERATURE °C: 17.0	LINEAR MASS (kg/m): 17.0	GRADE: DC	MIN. ID (mm): 17.0	TOOL JOINT O.D. (mm): 17.0	TYPE THREAD: 5/8" 11	NO. OF JOINTS: 26	PUMP TYPE: F-1000	PUMP MANUFACTURER: Emsco	STROKE LTH. (mm): 254
WATER HEAT	ROAD	WIND DIRECTION: 127	TEMPERATURE °C: 12.7	LINEAR MASS (kg/m): 12.7	GRADE: DC	MIN. ID (mm): 12.7	TOOL JOINT O.D. (mm): 12.7	TYPE THREAD: 5/8" 11	NO. OF JOINTS: 26	PUMP TYPE: F-1000	PUMP MANUFACTURER: Emsco	STROKE LTH. (mm): 254

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	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE	
	OPER	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	CONC. MUD & CIRC	TRIPS	MID SERVICE	REPAIR RIG	CUT OFF LINE	DEV. SURVEY	WIRE LINE LOGS	FEA. CASE & CEMENT	WAIT ON CEMENT	NUCLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUS BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.							2 TYPE		F.H.C.					TmJ-404674
MORN			2 3/4		1 1/2	1 1/2	2 3/4	1 1/2		1											3 1/4							8	SCREENS CHANGED		☐ YES ☐ NO	AmJ-1012				
DAY			7 1/2								1/2																	8	TOP	175	TOP	175	Accum. oil - 36			
EVE			6 1/4								1/4																	8	MIDDLE	140	MIDDLE	140				
TOTAL			16 1/4								3 1/4										3 1/4							24	BOTTOM	175	BOTTOM	140				

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD											
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	27C	MUD TYPE	WATER BASED	TIME	06:30	DENSITY	1630	FUNNEL VIS. (S/L)	96	W.L. (cm)	10	PH	8.7	PVT m3	81.7
1	1.5" 1/2	76	7.50	SIZE (mm)	311	IADC CODE	5117X	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.		
2	2.5" 1/2	18.75	3.86	MFG.	Smith	TYPE	F2	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.		
3	3.5" 1/2	37.50	5.22	SERIAL NO.	LY1653	JETS	3x22.1	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.		
4	4.5" 1/2	55.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
5	5.5" 1/2	71.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
6	6.5" 1/2	87.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
7	7.5" 1/2	103.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
8	8.5" 1/2	119.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
9	9.5" 1/2	135.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
10	10.5" 1/2	151.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
11	11.5" 1/2	167.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
12	12.5" 1/2	183.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
13	13.5" 1/2	199.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
14	14.5" 1/2	215.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
15	15.5" 1/2	231.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
16	16.5" 1/2	247.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
17	17.5" 1/2	263.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
18	18.5" 1/2	279.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
19	19.5" 1/2	295.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
20	20.5" 1/2	311.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
21	21.5" 1/2	327.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
22	22.5" 1/2	343.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
23	23.5" 1/2	359.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
24	24.5" 1/2	375.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
25	25.5" 1/2	391.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
26	26.5" 1/2	407.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
27	27.5" 1/2	423.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
28	28.5" 1/2	439.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
29	29.5" 1/2	455.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
30	30.5" 1/2	471.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
31	31.5" 1/2	487.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
32	32.5" 1/2	503.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
33	33.5" 1/2	519.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
34	34.5" 1/2	535.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
35	35.5" 1/2	551.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
36	36.5" 1/2	567.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
37	37.5" 1/2	583.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
38	38.5" 1/2	599.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
39	39.5" 1/2	615.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
40	40.5" 1/2	631.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
41	41.5" 1/2	647.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
42	42.5" 1/2	663.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
43	43.5" 1/2	679.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
44	44.5" 1/2	695.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
45	45.5" 1/2	711.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
46	46.5" 1/2	727.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
47	47.5" 1/2	743.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
48	48.5" 1/2	759.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
49	49.5" 1/2	775.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
50	50.5" 1/2	791.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
51	51.5" 1/2	807.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
52	52.5" 1/2	823.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
53	53.5" 1/2	839.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
54	54.5" 1/2	855.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
55	55.5" 1/2	871.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
56	56.5" 1/2	887.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)	1	TOTAL HOURS RUN	33 1/4	CUTTING STRUCTURE	MDC LOC B Gage ODC Reason Pulled Total Run m/hr.						
57	57.5" 1/2	903.00	5.22	DEPTH OUT (m)	1.40	DEPTH IN (m)	2326	TOTAL METRES DRILLED (m)											



Oct 12 - Nov 1/10

153713

LICENCE NO.: 1900

WELL NAME AND NO.: Canadian Forest et al North Lard C31

OPERATOR: Canadian Forest Oil

CONTRACTOR: AKita Drilling Ltd

SURFACE LOCATION: 300-C31-6040-12330-0

UNIQUE ID: 300-C31-6040-12330-0

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

DAILY CHECKS

OPR. R.M.

(1) Daily Walk Around Inspection

(2) Detailed Inspection-Weekly (using checklist)

(3) HPS 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/hr/month)

(3) Mast Inspection Before Raising or Lowering

(4) Crown Saver Checked

(5) Motor Kills checked

YEAR: 2000

MONTH: 10

DAY: 31

RIG NO: 58

FUEL @ 8:00

BOILER

W. E. A. T. H. E. R.

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)

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)

DRILLING ASSEMBLY (At End of Tour)

BIT RECORD

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRILLING ASSEMBLY (At End of Tour)

BIT RECORD

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRILLING ASSEMBLY (At End of Tour)

BIT RECORD

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

153712

EVENING
TOUR

153711

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 Logline & Stick Diagram Posted	Initial	Initial
(5) Flame Lines Staked	Initial	Initial
(6) BOP Tests Performed	Initial	Initial
(7) Visually inspect BOP's - Fansires & Discharge Units	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/week/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/ing/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kills checked	Initial	Initial

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	
	OPER	RIG UP & TIE DOWN	DRILL ACTUAL	HEAVING	CORING	COND MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	OUT OF DRILL LINE	DEY SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	APPLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MTG.				
MORN		7						1/2			1/4												2 1/2	Screen	WATER	
DAY		7									1/4														3/4	
EVE		7 1/4						1/2			1/4															
TOTAL		21 1/4						1			3/4												1/4		3/4	

25		26		TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE
					NO	YES					
				0	2	0	F.H.C.	TmJ-405853			
				0	0	0	SCREENS CHANGED ☐ YES ☒ NO	AmJ-6101			
				8	0	0	TOP 175	Accum oil-.36			
				0	0	0	MIDDLE 175				
				24	0	0	BOTTOM 175				

METRES DRILLED						TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	GRD. P.M.R. SCORE	ROTARY R.P.M.	WT. ON BIT (1000 lb)	FROM	TO	ELAP. TIME	CODE NO.			
2278	2287	9	30 1/2	3 3/4	00:00	03:00	3	2	Drill 30mm hole F/2278m-2281m.		
					03:00	03:30	1/2	7	R/S, Function Annular 19 sec 1015 VRSPP.		
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2			03:30	04:30	1	2	Drill F/2281m-2282m		
LINEAR SIZE (mm)	S.P.M.	LINEAR SIZE (mm)	S.P.M.		04:30	04:45	1/4	10	Survey @ 2263.31m		
15300	152	80	152	80	04:45	06:00	1 1/4	2	Drill F/2282m-2285m		
REDUCED PUMP SPEED					06:00	06:15	1/4	22	Clean Pipe screen.		
6600	@	85	@	2281m	06:15	08:00	1 3/4	2	Drill F/2285m-2287m		
DEVIATION SURVEY											
DEPTH (m)	DEVIATION (")	DIRECTION									
2263.31	2.6	171.7									
NOTES					✓ Crown Saver Fastline Clamp Deadline Anchor, Brokes & Linkage. Boiler Blown down 3 Times, Held meeting with S.O.S. Safety						
DRILLER SIGNATURE					HRS. RAN	BOILER ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.	
Gary Patrick					8	10.5	-	130 000 DAN	mixing mud	1533 KPA	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.O. H.D. CORE C	ROTARY R.P.M.	WT. ON BIT (1900 lbs)	FROM	TO	ELAP. TIME	CODE NO.					
2287	2294	1	34	34	0800	1045	24	2	DRILL 2287m - 2290m				
					1045	1100	54	10	SURVEY				
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2		1100	1400	3	2	DRILL 2290m - 2292m			
LINER SIZE (mm)		S.P.M.		LINER SIZE (mm)		1400	1445	44	23	WORK TIGHT HOLE			
1550	152	10	152	80	1445	1600	14	2	DRILL 2292m - 2294m				
REDUCED PUMP SPEED													
7000		@ 10%		@ 15									
DEVIATION SURVEY													
DEPTH (m)		DEVIATION (m)		DIRECTION									
2273.9		2.8		172.8									
NOTES													
Check Chisel Sides - Fasten Chisel - Dead End Anchor - Shakes & Linkage - Blow Dead End Boxer 3 Times													
DRILLER SIGNATURE						BOILER ph. STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Res. D. Jones						8 10.5		150,000		Has Check.		1533 RPM	

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DRILL RMP CORR. C	ROTARY R.P.M.	WT. ON BIT (1000 gms)	FROM	TO	ELAP. TIME	CODE NO.					
2274	2302	8	30	30	1600	2030	4/2	2	Drill 2274m - 2300m				
Sliding rate 153/85					2030	2100	1/2	7	RIS Function TOP Pipe Runs 6 sec 105 V RSP				
CIRCULATION PRESSURE (KPa)		PUMP NO. 1		PUMP NO. 2		2100	2200	1	2	Drill F/2300m - 2301m			
		LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.	2200	2215	1/4	10	Survey @ 2283.49m			
15700	152	82	152	82	2215	2400	13/4	2	Drill F/2301m - 2302m				
CHOKE REDUCED PUMP SPEED													
7100	@	2500m	@	85									
DEVIATION SURVEY						Hoisting Load Limits							
DEPTH (m)	DEVIATION (°)		DIRECTION		Mast = 235800 DAN								
2283.49	3.0		169.4		Drill Pipe = 160039 DAN								
NOTES						✓ Crown Saver, Fast Line Clamp, Deadline Anchor, Brakes & Linkage.							
						Boiler Blown down 2 Times.							
DRILLER SIGNATURE						BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Gang Pituk						HRS. RAN ph. STACK TEMP.		130 000 DAN		H2S Drills.		1533 KPa.	

153710

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	MUD TYPE ☒ WATER BASED ☐ OIL BASED				TIME				FROM	TO	ELAP. TIME	CODE NO.							
1	MOTOR		9.52	26CRR					20:30	22:00	24:00	2274	2278	4		1600	1630	1/2	2	DRILL 2294m - 2275m			
1	FLIGHT SUB		7.76	311					1630	1630	1630	1630	1700	70	25	1630	1700	70	25	CHECK DP SCREEN & CHANGE SHTAGS			
1	RES SUB		.71	4127																SCREENS			
2	NMDC 228		18.75	REED																ORIENT TOOL & SURVEY			
3	S/S DC 328		3.86	ENP42H					10	10	9.4	15400	152	80	152	80	1715	2030	3 1/4	2	DRILL 2275m - 2276m		
1	JOB		5.22	LQ4214					11	11	10.0												
6	DC 228		55.20	3X22.1					PVTm3	70.5	70.5												
1	X10		1.40						MUD MATERIALS ADDED				SOLIDS CONTROL										
12	DC 178		112.91	2273					PRODUCT AMOUNT X UNIT				DESILTER										
3	X10 HWDP 127		37.15																				
			81A = 264.94																				
70	D.P. STANDS																						
X	D.P. SINGLES		2013.06																				
	KELLY DOWN																						
	TOTAL		2278.00																				
WT. OF DC			37000																				
WT. OF STRING			102000																				

153709

DAILY CHECKS	OPR.	R.M.
(1) Daily Walk Around Inspection	Initial <i>FL</i>	Initial
(2) Detailed Inspection-Weekly (using checklist)	Initial	Initial
(3) HGS Signs Posted (if required)	Initial <i>FL</i>	Initial <i>FL</i>
(4) Well License & Stick Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial <i>FL</i>	Initial <i>FL</i>
(6) BOP Drills Performed	Initial <i>FL</i>	Initial <i>FL</i>
(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. Rig Safety Inspection Checklist (one/rig/month)		Initial _____
(3) Mast Inspection Before Raising or Lowering		Initial _____
(4) Crown Saver Checked		Initial <i>FL</i>
(5) Motor Kills checked		Initial _____

YEAR MONTH DAY			LAST	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)
RIG NO. 58			CASING	339.7	313.34	101.6	BT4C	K55	55	711.20	6.47	710
FUEL @ 8:00			TUBING									
OR												
RIG 70 BOILER			LINER									
W E A T H E R	TEMPERATURE	°C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JO.T.O.D. (mm)	TYPE HEAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS		21.5	20.24	DC	71	21.5	71.5	1			
			178	174.0	DC	63	178	51140	26	F-1000	EmSCO	254
	WIND DIRECTION		181	174.35	NW	78	156	H/2 IF	17	F-1000	EmSCO	254
			127	178.07	B3	101	156		138			
	ROAD		127	178.06	E2	108	158		174			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD						MUD RECORD						
NO.	BIT	O.D. mm	LENGTH	BIT NO.					MUD TYPE	☒ WATER BASED	☐ OIL BASED					
1	1		2.26	SIZE (mm)	25C				TIME	05:30						
1	1		1.76	IADC CODE	311				DENSITY kg/m ³	1640						
1	1		.71	MFG.	4/2/7				FUNNEL VIS. - (S/L)	83						
2	2	228	18.75	TYPE	Reed				W.L. (cm ²)	9.2						
3	3	228	31.67	SERIAL NO.	EHP42H				pH	10.0						
1	1		5.22	JETS (mm)	LQ4214				Pvr m ³	81.5						
6	6	228	55.20	DEPTH OUT (m)	3X19.0				MUD MATERIALS ADDED			SOLIDS CONTROL				
1	1		1.40	DEPTH IN (m)	2273				PRODUCT	AMOUNT X UNIT	DESILTER					
12	12	178	112.91	TOTAL METRES DRILLED (m)					Chenoxide 1pa1		HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)		
3	3	127	21.15	TOTAL HOURS RUN					Corinox 1pa1							
BHA = 264.70				CUTTING STRUCTURE				CENTRIFUGE								
	D.P.	STANDS		T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	Bacide 1pa1			
	D.P.	SINGLES											H ₂ Sulphate 56 SX			
KELLY DOWN				HOLE CONDITION												
TOTAL				HOLE DRAG 10000 ft Rotating									Centrifuge #2			
WT. OF DC		37000	1000 gals	TORQUE AT BOTTOM		10000 ± 12000 FT/Lb										
WT. OF STRING		101000	1000 gals	FILL ON BOTTOM (m)												

MORNING TOUR

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.B. / R.M.B. / CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 gms)	FROM	TO	ELAP TIME	CODE NO.				
0000	0030		30	3/6	0000	0030	1/2	30	TEST M.W.D. Tool			
0030	0045		30	3/6	0030	0045	1/2	6	B.I.H. Flow 1/8 Fill Pipe every 500m.			
0045	0055		30	3/6	0045	0055	1/2	3	Ream F/2235m			
0055	0100		30	3/6	0055	0100	1/2	7	R/L Function upper Pipe Runs 6 sec / 1/2			
REDUCED PUMP SPEED												
0100	0105		30	3/6								
DEVIATION SURVEY												
DEPTH (m)		DEVIATION (°)		DIRECTION								
NOTES					✓ Crown Saver, Fastline Clamp, Deadline Anchor, Brakes & Linkage.							
					Boiler Blow down 3 Times							
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Garry Paton					ph STACK TEMP.		135000		Working Tight hole.		1428 R/H	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD								MUD RECORD			
NO.	BIT	O.D. mm	LENGTH	BIT NO.					MUD TYPE		☐ WATER BASED		☐ OIL BASED		
	2 1/2" POC	224	2715	SIZE (mm)	311				TIME	08:00	14:00	16:00			
	2 1/2" POC	224	2715	IADC CODE	427				DENSITY kg/m ³	1640	1640	1635			
	2 1/2" POC	224	2715	MFG.	REED				FUNNEL VIS. - (S/L)	79	75	74			
	2 1/2" POC	224	2715	TYPE	EHP42H				W.L. (cm ³)	8.6	9.2	9.0			
	2 1/2" POC	224	2715	SERIAL NO.	LQ 4214				pH	9.5	10.5	10.5			
	2 1/2" POC	224	2715	JETS (mm)	3x190				P.U.T. m ³	81.0	83.7	86.0			
	2 1/2" POC	224	2715	DEPTH OUT (m)					MUD MATERIALS ADDED		SOLIDS CONTROL				
	2 1/2" POC	224	2715	DEPTH IN (m)	2273				PRODUCT	AMOUNT X UNIT		DESILTER			
	2 1/2" POC	224	2715	TOTAL METRES DRILLED (m)	1 1/2				Chemical	1 PL	HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	
	2 1/2" POC	224	2715	TOTAL HOURS RUN	1 1/2				Corium	1 PL					
	2 1/2" POC	224	2715	CUTTING STRUCTURE						CENTRIFUGE					
	2 1/2" POC	224	2715	T ₁	T ₂	MDC	LOC	9	Gage	ODC	Reason Pulled	Total Run m/hr.			
20	D.P.	STANDS	2006.73												
	D.P.	SINGLES	964												
	KELLY DOWN		8.07												
	TOTAL		2273												
WT. OF DC	37000	1000 g/m													
WT. OF STRING	102.000	1000 g/m													
				HOLE CONDITION											
				HOLE DRAG											
				TORQUE AT BOTTOM											
				FILL ON BOTTOM (m)											

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R.D. R.M.B. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daft)		FROM	TO	ELAP. TIME	CODE NO				
2251	2273	R	2000	2/3		0800	1430	6 43	REAM	m = To 2273m			
						1430	1500	1/2 2	BREAK IN BIT .25 m.				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1	PUMP NO. 2				1500	1515	1/10	WORK PRE ORIENT & SURVEY				
600	LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.		1515	1545	1/2 22	CHANGE HEAD No 1 Pump				
16300	152	80	152	80		1545	1600	1/4 10	ORIENT TOOL				
REDUCED PUMP SPEED													
1000	@	22	@	90									
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)	DIRECTION											
2254	2.5	167.7.											
						TRANSFERRED 2.4 m ³ of Gel To Active							
						CHECK CROWN SAVER & FASTLINE CLAMP - DEAD MAN ADDRESS							
						BRAKES & LINGAGE BOILER BLOWDOWN 3 Times							
DRILLER SIGNATURE						BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Aesling Jensen						8 105		135 000		MASKS worn 50%		1428 KPA	

DRILLING ASSEMBLY (At End of Tour)						BIT RECORD							MUD RECORD			
NO.	B.T.	O.D. mm	LENGTH	BIT NO.		MUD TYPE	☒ WATER BASED	☐ OIL BASED								
			m	SIZE (mm)		TIME										
			m	IADC CODE		DENSITY kg/m ³										
			m	MFG.		FUNNEL VIS. - (S/L)										
			m	TYPE		W.L. (cm ³)										
			m	SERIAL NO.		pH										
			m	JETS (mm)												
			m	DEPTH OUT (m)		MUD MATERIALS ADDED		SOLIDS CONTROL								
			m	DEPTH IN (m)		PRODUCT	AMOUNT X UNIT	DESILTER								
			m	TOTAL METRES DRILLED (m)				HOURS RUN INTAKE DENSITY (kg/m ³) OVERFLOW DENSITY (kg/m ³) UNDERFLOW DENSITY (kg/m ³)								
			m	TOTAL HOURS RUN												
	D.P.	STANDS	m	CUTTING STRUCTURE				CENTRIFUGE								
			m	T ₁	T ₂	MDC	LOC	B. Gage ODC Reason Pulled Total Run m/hr.								
	D.P.	SINGLES	m					HOURS RUN INTAKE DENSITY (kg/m ³) OVERFLOW DENSITY (kg/m ³) UNDERFLOW DENSITY (kg/m ³)								
	KELLYDOWN		m	HOLE CONDITION												
	TOTAL		m	HOLE DRAG												
WT.OF DC			1000 daN	TORQUE AT BOTTOM				HOURS RUN INTAKE DENSITY (kg/m ³) OVERFLOW DENSITY (kg/m ³) UNDERFLOW DENSITY (kg/m ³)								
WT.OF STRING			1000 daN	PULL ON BOTTOM (m)												

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	D.R.D. P.S.I.R CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)		FROM	TO	ELAP. TIME	CODE NO.						
						1600	1645	34	10	O.K. ENT. Tool T Pump					
						1645	1800	14	5	C/R C BITTING UP					
						1800	2130	312	6	P.O.H. FOR SCREEN / Pull out TO 1700m					
						2130	2200	12	5	Flowing Pump P.H. Blow Kelly					
						2200	2400	2	6	P.O.C.H. Drift P.H.					
CIRCULATION PRESSURE (kPa)															
		PUMP NO. 1		PUMP NO. 2											
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.										
		150		150											
REDUCED PUMP SPEED															
		@		@											
DEVIATION SURVEY															
DEPTH (m)		DEVIATION (%)		DIRECTION											
NOTES						✓ Crown Saver, Fastline Clamp, Deadline Inserter, Brakes & Linkage Boiler - Blowdown X3.									
DRILLER SIGNATURE						BOILER ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Henry Patullo						8		103							

153708

[illegible]

153707

LICENCE NO.: 1900

WELL NAME AND NO.: Canadian Forest et al North Land C-31

OPERATOR: Canadian Forest Oil LTD

SURFACE LOCATION: 300 C31 1040 12330 0

SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]

CONTRACTOR: Alberta Drilling LTD

UNIQUE ID.: 300 C31 1040 12330 0

SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

DAILY CHECKS

OPR

R.M.

YEAR: 2010 MONTH: 10 DAY: 25

RIG NO.: 56

FUEL @ 8:00

BOILER

TEMPERATURE °C

DC/DP SIZE (mm)

LINEAR MASS (kg/m)

GRADE

MIN. ID (mm)

TOOL JT O.D. (mm)

TYPE

NO. OF JOINTS

PUMP TYPE

PUMP MANUFACTURER

STROKE LTH. (mm)

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)

WIND DIRECTION

ROAD

TIME HOURS

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

TOTALS

SHAPE(S)

RENTALS/SERVICES

MORN

DAY

EVE

DRILLING ASSEMBLY (At End of Tour)

BIT RECORD

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRILLING ASSEMBLY (At End of Tour)

BIT RECORD

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DRILLING ASSEMBLY (At End of Tour)

BIT RECORD

MUD RECORD

METRES DRILLED

TIME LOG

DETAILS OF OPERATION IN SEQUENCE AND REMARKS

153706

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	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES				
	OPER.	RIG UP & TEAR DOWN	DRIILL ACTUAL	REAMING	CORING	COND. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRIILL LINE	DEV SURVEY	WIRE LINE LOGS	TAKE CASE & CEMENT	WAIT ON CEMENT	NIPPLE UP B.O.P.	TEST B.O.P.	DRIILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRIILL WORK	SAFETY MTG.	SHALER GREEN	REDUCED PUMP	CHANGE THE SCREEN			NO.	TYPE	YES	NO	MORN.	DAY	EVE.	
MORN.		6 3/4				1/4		1/4	1/4		1/4											1/2		1/4				8	SCREENS CHANGED	X		AMJ 37561			
DAY		5 1/2	1							1/4														3/4				8	TOP 175	TOP 140		AMJ 9359			
EVE		2 1/2	1/2					1/4		1/4															1/2			8	MIDDLE 175 *	MIDDLE 140 *		Accum Oil .35			
TOTAL		16 3/4	1 1/2			1/4		1/2	1/4	3/4											1/2		1/4		3/4	1/2		3	BOTTOM 175	BOTTOM 140 *					

DRILLING ASSEMBLY (At End of Tour)				LENGTH		BIT RECORD		MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
NO.	BIT	O.D. mm		BIT NO.		MUD TYPE	☒ WATER BASED	☐ OIL BASED	FROM	TO	DRILL R.P.M.	WT. ON BIT (1000 gals)	FROM	TO	ELAP. TIME	CODE NO.								
1	1 1/2" BIT	238	2.64	24C					2229	2239	10	90	39/35	0800	0900	1	3	Work and Clean Tight Hole F/2221m-2229m						
1	SHORT DC	238	2.05	311		DENSITY			09:30	12:30	15:40		0900	0945	3/4	23	Repair Pump #2, Replace Plug and Front cap seal							
1	FLIGHT SUB		.71			DENSITY			1635	1635	1635		0945	1015	1/2	20	Sync M.W.D.							
2	NMOL	238	18.75	RBI		FUNNEL			80	83	86		1015	1130	1 1/4	2	Drill F/2229m-2231m							
3	S/S	208	3.55	C1		W.L. (cm ²)			8.0	8.4	8.0		1130	1145	1/4	10	Survey @ 2215.60m							
1	DC	208	32.69	KL4838		pH			10.5	10.5	10.5		1145	1600	4 1/4	2	Drill F/2231m-2239m							
1	Jar		5.88	3X19.1		PVT m ³			80.5	81.8	83.2		REDUCED PUMP SPEED											
6	DC	228	55.80										6200	@	90	@	2229							
1	X10		1.38			MUD MATERIALS ADDED		SOLIDS CONTROL																
12	DC	178	113.67			PRODUCT	AMOUNT X UNIT	DESILTER																
3	X10	127	1.41					HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)													
		BHA=262.18	37.15										DEVIATION SURVEY											
													DEPTH (m)	DEVIATION (°)	DIRECTION									
													2215.60	1.7	139.7	Drag up Rotating 8000 DAN, Down 6000 DAN								
69	D.P.	STANDS	1976.88			CUTTING STRUCTURE			CENTRIFUGE															
	D.P.	SINGLES				T ₁	T ₂	MDC	LOC	B	Gage	ODG	Reason Pulled	Total Run m/hr.										
						HOLE CONDITION		CENTRIFUGE																
		KELLY DOWN				HOLE DRAG		25000 + 30000 + sliding	CENTRIFUGE															
		TOTAL	2239.60			TORQUE AT BOTTOM		11-13000 FT/LB	CENTRIFUGE															
WT. OF DC		38000	1000 gals			FILL ON BOTTOM (m)			CENTRIFUGE															
WT. OF STRING		100000	1000 gals						CENTRIFUGE															
DRILLER SIGNATURE																	BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
Gour Vohik																	HRS. RUN		STACK TEMP.		130000 DAN		Camp Fire Drills. 1463 APA	

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
NO.	BIT	O.D. mm	LENGTH	BIT NO.	MUD TYPE ☒ WATER BASED ☐ OIL BASED				FROM	TO	W.O. - P.M. CORRECT	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.						
1	24C	246	2.22 m	24C					18:30	20:00	22:00			16:00	16:30	1/2	2	Drill F/2239m - 2240m					
1	24C	246	2.45 m	311					1635	1630	1630			1630	1645	1/4	7	RIS, Function To P Pipe Rams 6 Secks					
1	24C	246	2.45 m	427					82	83	83			1645	1715	1/2	3	Work and clean hole					
2	24C	246	11.75 m	RBI					8.0	8.5	8.5			1715	1815	1	2	Drill F/2240m - 2241					
3	24C	246	2.45 m	C1					10	11.0	11.0			1815	1830	1/4	10	Survey @ 2225.06m					
1	JAR	246	5.22 m	KL4838					77.6	76.3	77.3			1830	1900	1/2	24	Accum Time To Clean Pipe Screen					
6	24C	246	55.40 m	3x19.1					MUD MATERIALS ADDED				SOLIDS CONTROL										
1	24C	246	1.38 m						PRODUCT				AMOUNT X UNIT				DESILTER						
12	24C	246	112.67 m	2214					Lignite				2.5X										
1	24C	246	22.15 m	36					HOURS RUN				INTAKE DENSITY (kg/m ³)				OVERFLOW DENSITY (kg/m ³)						
3	24C	246	22.15 m	22 1/2					CENTRIFUGE				HOURS RUN				INTAKE DENSITY (kg/m ³)						
69	D.P.	STANDS	1997.07						CENTRIFUGE				HOURS RUN				INTAKE DENSITY (kg/m ³)						
XX	D.P.	SINGLES	1997.07						CENTRIFUGE				HOURS RUN				INTAKE DENSITY (kg/m ³)						
55	KELLYDOWN		9.19 m						CENTRIFUGE				HOURS RUN				INTAKE DENSITY (kg/m ³)						
	TOTAL		2250 m						CENTRIFUGE				HOURS RUN				INTAKE DENSITY (kg/m ³)						
WT.OFDC	38000	1000 daN							CENTRIFUGE				HOURS RUN				INTAKE DENSITY (kg/m ³)						
WT.OFSTRING	101000	1000 daN							CENTRIFUGE				HOURS RUN				INTAKE DENSITY (kg/m ³)						

153705

LICENCE NO.: WELL NAME AND NO.: OPERATOR: CONTRACTOR: SURFACE LOCATION: SIGNATURE OF OPERATOR'S REPRESENTATIVE:

DAILY CHECKS: (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) Flow Lines Staked (6) SOPS Drills Performed (7) Visually inspect SOPS - Flarelines & Degasser Lines

W. TEMP. 17.6 C. C. TEMP. 17.6 C. WIND DIRECTION 127 ROAD 127

LAST CASING TUBING OR LINER: O.D. (mm) 339.7 MIN. I.D. (mm) 315.34 kg/m 11.12 MAKE 1515 GRADE 455 NO. OF JOINTS 55 TOTAL (m) 711.40 KB. TO CSG HEAD (m) 1.47 SET AT (m) 710

W. TEMP. 17.6 C. C. TEMP. 17.6 C. WIND DIRECTION 127 ROAD 127

DRILLING ASSEMBLY (At End of Tour): BIT RECORD: MUD RECORD: METRES DRILLED: TIME LOG: DETAILS OF OPERATION IN SEQUENCE AND REMARKS:

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	TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES			MORE	DAY	EVE				
	OPER.	NO. UP & TEAR DOWN	DRILL ACTUAL	REAMING	CORING	COND. MUD & CIP	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAY ON CEMENT	DRILL UP B.D.P.	TEST B.D.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DIR. WORK	SAFETY MTG.	HANDY TOOLS REQUIRED																	
	MORN.																																							
	DAY																																							
EVE																																								
TOTAL																																								

DRILLING ASSEMBLY (At End of Tour): BIT RECORD: MUD RECORD: METRES DRILLED: TIME LOG: DETAILS OF OPERATION IN SEQUENCE AND REMARKS:

DRILLER SIGNATURE: BOILER: HRS. RAN: 5 10

NOTES: Crown Saver Fastline Clamp Deadline Anchor

DRILLING ASSEMBLY (At End of Tour): BIT RECORD: MUD RECORD: METRES DRILLED: TIME LOG: DETAILS OF OPERATION IN SEQUENCE AND REMARKS:

DRILLER SIGNATURE: BOILER: HRS. RAN: 8 10

NOTES: Crown Saver Fastline Clamp Deadline Anchor, Brakes & Linkage

DRILLING ASSEMBLY (At End of Tour): BIT RECORD: MUD RECORD: METRES DRILLED: TIME LOG: DETAILS OF OPERATION IN SEQUENCE AND REMARKS:

DRILLER SIGNATURE: BOILER: HRS. RAN: 8 10

NOTES: Crown Saver Fastline Clamp Deadline Anchor, Brakes & Linkage

YEAR MONTH DAY			LAST	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)
RIG NO. 58			CASING	339.7	315.34	141.2	DTFC	K55	55	711.26	6.17	710
FUEL @ 8:00			TUBING									
OR												
RIG 1.03 BOILER			LINER									

W E A T H E R	TEMPERATURE	°C	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)
	CURRENT	125	125	125	E3	101	151	AS IF	17	F-1000	EMISCO	254
	CONDITIONS	125	125	125	E3	101	151	AS IF	17	F-1000	EMISCO	254
	WIND DIRECTION	125	125	125	E3	101	151	AS IF	17	F-1000	EMISCO	254
	ROAD	125	125	125	E3	101	151	AS IF	17	F-1000	EMISCO	254

[illegible]

153703

YEAR	MONTH	DAY	LAST	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)
RIG NO.	58		CASING	339.7	315.34	11.12	BTFC	K56	55	714.20	1.47	710
FUEL @ 8:00												
RIG	1.37	BOILER	TUBING OR LINER									
WEATHER	TEMPERATURE	°C	D.C.P. 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)
CURRENT CONDITIONS	22.5		154.0	11.4	E3	114	154	1 1/2" 5/8" UNF	15	F-1000	EMSCO	254
WIND DIRECTION	127		154.0	11.4	E3	114	154	1 1/2" 5/8" UNF	15	F-1000	EMSCO	254
ROAD	137		154.0	11.4	E3	114	154	1 1/2" 5/8" UNF	15	F-1000	EMSCO	254

[illegible]

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153702

LICENCE NO.:	WELL NAME AND NO.:
1000	Canadian Forest et al North land c-31
OPERATOR:	CONTRACTOR:
Canadian Forest Oil Ltd	Alta Drilling Ltd
SURFACE LOCATION:	UNIQUE ID.:
300-C31-1040-12330-0	300-C-31-1040-12330-0
SIGNATURE OF OPERATOR'S REPRESENTATIVE:	SIGNATURE OF CONTRACTOR'S RIG MANAGER:
<i>[Signature]</i>	<i>[Signature]</i>

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 BOPs - Planelines & Degasser Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/crew/month)	Initial	Initial
(2) C.A.O.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	LAST	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)
2000	10	20	CASING	334.7	315.3	10.2	BT	1435	55	711.20	1.47	710
RIG NO.	58											
FUEL @ 8:00												
RIG	91	BOILER										
WEATHER	TEMPERATURE °C		DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT (mm)	TYPE	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS		175	14.1	DL	100	175	175	175	F-1000	EMSCO	254
	WIND DIRECTION		127	38.67	EL	101	152	152	152	F-1000	EMSCO	254
	ROAD		177	29.26	EL	108	158	158	158			

TIME - HOURS	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	TOTALS	SHALE SHAKER(S)			RENTALS/SERVICES			MORN	DAY	EVE					
	OPER.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING CORING	COND. MUD & DISC	TRIPS	RIG SERVICE	REPAIR RIG	OUT 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	DIP WORK	SAFETY MTG.	BOP Drill			Remove Saver Sub	Repair Pump	Clean Screen		NO.	TYPE	F.L.C.	TIME	390158									
	MORN		7 1/2				1/4			1/4													1/4	3/4	1/2	1/4								8				2168	2172	10	30	25
	DAY		5 3/4				1/4			1/4																								8				2168	2172	10	30	25
	EVE		7 1/2							1/4																								8				2168	2172	10	30	25
TOTAL		21					1/2		3/4														1/4	3/4	1/2	1/4		24	2168	2172	10	30	25									

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD																	
NO.	BIT	O.D. (mm)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED															
1	PTSD	76.31	22C	311	TIME	02:00	04:00	06:00														
2	NHDI	18.75	437X		DENSITY kg/m ³	1620	1620	1620														
3	DL	3.86	SMITH		FUNNEL VIS. - (S/L)	80	80	79														
4	JAR	5.22	F10TP		W.L. (cm ²)	8.0	8.0	8.0														
5	DL	45.78	LWH035		pH	11.0	11.0	11.0														
6	X10	1.38	JETS (mm)	OPEN	P.V.T	86.6	88.0	88.6														
7	DL	84.48	DEPTH OUT (m)		MUD MATERIALS ADDED				SOLIDS CONTROL													
8	X10	1.41	DEPTH IN (m)	2111	PRODUCT	AMOUNT X UNIT	DESILTER															
9	HWDP	27.15	TOTAL METRES DRILLED (m)	61	Biocide	1pl	HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)												
10	BHA	226.82	TOTAL HOURS RUN	62	Barite	605x																
11	D.P.	STANDS	CUTTING STRUCTURE	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.	CENTRIFUGE																	
12	D.P.	SINGLES																				
KELLY DOWN															HOLE CONDITION							
TOTAL															HOLE DRAG 10-14000 DAN							
WT.OFDC															TORQUE AT BOTTOM 9-14000 FT/LBS							
WT.OFSTRING															FILL ON BOTTOM (m)							

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD																	
NO.	BIT	O.D. (mm)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED															
1	PTSD	76.31	22C	311	TIME	07:00	12:00	15:00														
2	NHDI	18.75	437X		DENSITY kg/m ³	1620	1620	1615														
3	DL	3.86	SMITH		FUNNEL VIS. - (S/L)	78	77	75														
4	JAR	5.22	F10TP		W.L. (cm ²)	7.6	78.0	8.0														
5	DL	45.78	LWH035		pH	10.5	10.5	10.5														
6	X10	1.38	JETS (mm)	OPEN	P.V.T	89.5	89.2	88.2														
7	DL	84.48	DEPTH OUT (m)		MUD MATERIALS ADDED				SOLIDS CONTROL													
8	X10	1.41	DEPTH IN (m)	2111	PRODUCT	AMOUNT X UNIT	DESILTER															
9	HWDP	27.15	TOTAL METRES DRILLED (m)	68	Alomer	1SK.	HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)												
10	BHA	226.82	TOTAL HOURS RUN	67 3/4	Chemical	1pl																
11	D.P.	STANDS	CUTTING STRUCTURE	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.	CENTRIFUGE																	
12	D.P.	SINGLES																				
KELLY DOWN															HOLE CONDITION							
TOTAL															HOLE DRAG 8-14000 DAN							
WT.OFDC															TORQUE AT BOTTOM 10-11000 FT/LBS							
WT.OFSTRING															FILL ON BOTTOM (m)							

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD																	
NO.	BIT	O.D. (mm)	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED															
1	PTSD	76.31	22C	311	TIME	18:00	20:00	22:00														
2	NHDI	18.75	437X		DENSITY kg/m ³	1615	1615	1620														
3	DL	3.86	SMITH		FUNNEL VIS. - (S/L)	88	88	90														
4	JAR	5.22	F10TP		W.L. (cm ²)	7.8	8.0	8.0														
5	DL	45.78	LWH035		pH	10.5	10.5	10.5														
6	X10	1.38	JETS (mm)	OPEN	P.V.T	90.1	91.2	91.0														
7	DL	84.48	DEPTH OUT (m)		MUD MATERIALS ADDED				SOLIDS CONTROL													
8	X10	1.41	DEPTH IN (m)	2111	PRODUCT	AMOUNT X UNIT	DESILTER															
9	HWDP	27.15	TOTAL METRES DRILLED (m)	77	Lime	45x	HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)												
10	BHA	226.82	TOTAL HOURS RUN	75 1/2	Gypsum	45x																
11	D.P.	STANDS	CUTTING STRUCTURE	T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.	CENTRIFUGE																	
12	D.P.	SINGLES																				
KELLY DOWN															HOLE CONDITION							
TOTAL															HOLE DRAG 8-14000							
WT.OFDC															TORQUE AT BOTTOM 10-14000 FT/LBS							
WT.OFSTRING															FILL ON BOTTOM (m)							

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
2168	2172	10	30	DRILL 2168m - 2172m	
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2	K/S FUNCTION ANNULAR RT SEC 1/2 VRSPF	
14400	152	152	152	DRILL 2168m - 2172m	
REDUCED PUMP SPEED		SURVEY			
DEVIATION SURVEY		DRILL 2168m - 2172			
DEPTH (m)	DEVIATION (°)	DIRECTION			
2150.1	1.4	127.6			
NOTES					
UP WT. RT 14000 DAN					
DN WT. RT 16000 DAN					
V CROWN SAVER FASTLINE CLAMP DEADLINE ANCHOR					
DRILLER SIGNATURE		BOILER	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
		HRS. RAN	ph	STACK TEMP.	
		120	100	DAN	1568 KPA

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
2172	2179	7	30	DRILL 31mm hole F/2172m - 2176m	
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2	B.O.P. Drill Well Secure in 1 min	
15000	152	85	152	R/S Function Top Pipe Roms 6 sec/cis VRSPF	
REDUCED PUMP SPEED		Remove Saver Sub From Top Drive and break out			
DEVIATION SURVEY		Saver Sub with Tongs. make connection.			
DEPTH (m)	DEVIATION (°)	DIRECTION			
2159.67	1.1	130.1			
NOTES					
V Crown Saver, Fastline Clamp, Deadline Anchor, Brakes & Linkage					
Start Boiler @ 1200 hrs. Blow down 2 Times. Function Remote Choke.					
DRILLER SIGNATURE		BOILER	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
		HRS. RAN	ph	STACK TEMP.	
		4	103	135000 DAN	BOP Drills
					1568 KPA

METRES DRILLED		TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS	
FROM	TO	ELAP. TIME	CODE NO.		
2179	2188	7	30	DRILL 31mm hole F/2179m - 2187m	
CIRCULATION PRESSURE (kPa)		PUMP NO. 1	PUMP NO. 2	SURVEY	
15200	152	85	152	DRILL 2187m - 2188m	
REDUCED PUMP SPEED					
DEVIATION SURVEY					
DEPTH (m)	DEVIATION (°)	DIRECTION			
2167.34	1.1	130.4			
NOTES					
V Crown Saver, Fastline Clamp, Deadline Anchor					
Blow down BOILER 2 TIMES					
DRILLER SIGNATURE		BOILER	MAXIMUM EXPERIENCED HOOKLOAD	SAFETY TOPIC	M.A.C.P.
		HRS. RAN	ph	STACK TEMP.	
		8	105	140000 DAN	1568 Kpa.

153701

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) Wall License & Stick Diagram Posted	Initial _____	Initial _____
(5) Flare Lines Staked	Initial _____	Initial _____
(6) BOP Drills Performed	Initial _____	Initial _____
(7) Visually inspect BOP's - Flarelines & Degassair Lines	Initial _____	Initial _____
(1) Rig Site Health and Safety Meeting (one/crow/month)		Initial _____
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/hg/month)		Initial _____
(3) Mast Inspection Before Raising or Lowering		Initial _____
(4) Crown Bevel Checked		Initial _____
(5) Motor Kills checked		Initial _____

YEAR MONTH DAY			LAST	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)
RIG NO. 58			CASING	339.7	315.3	1112	BT+C	K55	55	74-20	6-47	710
FUEL @ 8:00			TUBING									
RIG 138 BOILER			OR LINER									
WEATHER	TEMPERATURE	°C	D.O.P. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN I.D (mm)	TOOL JOINT D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS		123	74.35	H40	156	156	4 1/2	15	F 1000	KM SCD	250
	WIND DIRECTION		127	32.07	E3	156	156	4 1/2	158	F 1000	EM SCD	250
	ROAD		127	20.05	E2	158	158	4 1/2	150			

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD				METRES DRILLED				TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
NO.	BIT		LENGTH	BIT NO.	MUD TYPE				TIME	MUD TYPE			FROM	TO	ELAP. TIME	CODE NO.							
	BIT	O.D. (mm)			☒ WATER BASED ☐ OIL BASED																		
1	Motor	9.28	35	22C					16:00	19:00	22:30	2153	2162	9	28	1600	1900	3	2	Drill 311mm hole F/2153m-2157m			
2	Flange sub	1.76		311					1625	1620	1620	slide into			1900	1915	1/4	7	R/S Function Bottom Pipe Rams 6sacks, vial				
3	Restrictor sub	1.71		413 7 X					86	82	80				1915	2030	1/4	2	Drill F/2157m-2158m				
4	AMDC 228	18.75		Smith					6.0	6.0	6.8				2030	2045	1/4	10	Survey @ 2140.50m				
5	Shock sub	3.86		F10TP					10.5	10.5	10.5				2045	2400	3/4	2	Drill F/2158m-2162m				
6	DC 228	27.68		LW4035					PVTm ³ 85.0	85.3	84.7												
7	Jar	5.23		OPEN					MUD MATERIALS ADDED			SOLIDS CONTROL											
8	DC 228	45.78							PRODUCT			AMOUNT X UNIT			DESILTER								
9	X10	1.38							HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)					
10	DC 178	84.48		2111					HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)					
11	F10	1.41		51					HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)					
12	WWD 122	27.25		54 1/2					HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)					
13	BHA= 226.82								HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)					
14	D.P. STANDS			CUTTING STRUCTURE				CENTRIFUGE			HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)			
15	D.P. SINGLES	1940.27		T ₁ T ₂ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.				CENTRIFUGE			HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)			
16	KELLY DOWN	5.08		HOLE CONDITION				CENTRIFUGE			HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)			
17	STICK UP	2162		HOLE DRAG 12000 T/Rotate / 11000 T/Side				CENTRIFUGE			HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)			
18	TOTAL			TORQUE AT BOTTOM 9-10000 FT/LB				CENTRIFUGE			HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)			
19	WT. OF DC	33000	1000 gals	FILL ON BOTTOM (m)				CENTRIFUGE			HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)			
20	WT. OF STRING	93000	1000 gals					CENTRIFUGE			HOURS RUN			INTAKE DENSITY (kgm ⁻³)			OVERFLOW DENSITY (kgm ⁻³)			UNDERFLOW DENSITY (kgm ⁻³)			

EVENING TOUR

REDUCED PUMP SPEED

5600 @ 85 @ 2157m

DEVIATION SURVEY

DEPTH (m) DEVIATION (°) DIRECTION

2140.50 1.8 135.5

NOTES

Crown Saver, Fastline Clamp, Deadline Anchor Brakes & Linkage.
Function Remote Choke, TEST FIRE Flame igniter

DRILLER SIGNATURE

Benny Patrick

BOILER

HRS. RUN ph. STACK TEMP.

0 - -

MAXIMUM EXPERIENCED HOOKLOAD

125000 DAN

SAFETY TOPIC

Picking up Pipe.

M.A.C.P.

1568 KPA

26/10/00

FOLD HERE →

153700

LICENCE NO.: 1700	WELL NAME AND NO.: CANADIAN FOREST 011
OPERATOR: CANADIAN FOREST OIL	CONTRACTOR: AKVA DRILLING LTD
SURFACE LOCATION: 300 C-31 6040 12330-0	UNIQUE ID.: 100 C-31 6040 12330-0
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) 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 (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: 2000	MONTH: 12	DAY: 1	LAST CASING TUBING OR LINER: 3377	O.D. (mm): 21534	MIN. I.D. (mm): 1012	kg/m: 140	MAKE: K55	GRADE: 55	NO. OF JOINTS: 71	TOTAL (m) LENGTH: 710	KB. TO CSG HEAD (m): 647	SET AT (m): 710	
RIG NO: 58	FUEL @ 8:00	BOILER: 172	TEMPERATURE: 128	DC/DP SIZE (mm): 128	LINEAR MASS (kg/m): 74.35	GRADE: 40	MIN. ID (mm): 128	TOOL J.O.D. (mm): 128	TYPE THREAD: 44-4	NO. OF JOINTS: 14	PUMP TYPE: F1000	PUMP MANUFACTURER: EMSCO	STROKE LTH. (mm): 254
WEATHER	CURRENT CONDITIONS: 127	WIND DIRECTION: 127	ROAD: 127	DC/DP SIZE (mm): 127	LINEAR MASS (kg/m): 38.07	GRADE: 40	MIN. ID (mm): 127	TOOL J.O.D. (mm): 127	TYPE THREAD: 44-4	NO. OF JOINTS: 138	PUMP TYPE: F1000	PUMP MANUFACTURER: EMSCO	STROKE LTH. (mm): 254

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	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE			
	OPFR.	RIG UP & TEAR DOWN	DRILL ACTUAL	REAMING CORING	COND. MUD & DRG.	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.										NO	TYPE						
	MORN.		7 1/4					1/4				1/4													Bot Drill													
	DAY		7 1/2					1/4				1/4													1/4													
	EVE.		8																																			
	TOTAL		22 1/4					1/2				1/2													1/4													

DRILLING ASSEMBLY (At End of Tour)				BIT RECORD				MUD RECORD			
NO.	BIT	O.D. (mm)	LENGTH	BIT NO.	22C	MUD TYPE	WATER BASED	TIME	02:30	04:00	06:30
1	2 1/2	76.2	3.11	SIZE (mm)	311	DENSITY kg/m³	1625	1625	1625		
2	3 1/2	101.6	4.37	IADC CODE	4 3 7 X	FUNNEL VIS. - (S/L)	84	76	83		
3	4 1/2	127.0	5.70	MFG.	SMITH	W.L. (cm³)	9.5	8.5	8.0		
4	5 1/2	152.4	7.00	TYPE	F10TP	pH	11.0	11.0	11.0		
5	6 1/2	177.8	8.30	SERIAL NO.	LW4035						
6	7 1/2	203.2	9.60	JETS (mm)	OPEN						
7	8 1/2	228.6	10.90	DEPTH OUT (m)		MUD MATERIALS ADDED		SOLIDS CONTROL			
8	9 1/2	254.0	12.20	DEPTH IN (m)	211	PRODUCT	AMOUNT X UNIT	DESILTER			
9	10 1/2	279.4	13.50	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
10	11 1/2	304.8	14.80	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
11	12 1/2	330.2	16.10	CUTTING STRUCTURE							
12	13 1/2	355.6	17.40	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
13	14 1/2	381.0	18.70	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
14	15 1/2	406.4	20.00	CUTTING STRUCTURE							
15	16 1/2	431.8	21.30	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
16	17 1/2	457.2	22.60	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
17	18 1/2	482.6	23.90	CUTTING STRUCTURE							
18	19 1/2	508.0	25.20	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
19	20 1/2	533.4	26.50	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
20	21 1/2	558.8	27.80	CUTTING STRUCTURE							
21	22 1/2	584.2	29.10	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
22	23 1/2	609.6	30.40	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
23	24 1/2	635.0	31.70	CUTTING STRUCTURE							
24	25 1/2	660.4	33.00	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
25	26 1/2	685.8	34.30	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
26	27 1/2	711.2	35.60	CUTTING STRUCTURE							
27	28 1/2	736.6	36.90	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
28	29 1/2	762.0	38.20	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
29	30 1/2	787.4	39.50	CUTTING STRUCTURE							
30	31 1/2	812.8	40.80	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
31	32 1/2	838.2	42.10	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
32	33 1/2	863.6	43.40	CUTTING STRUCTURE							
33	34 1/2	889.0	44.70	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
34	35 1/2	914.4	46.00	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
35	36 1/2	939.8	47.30	CUTTING STRUCTURE							
36	37 1/2	965.2	48.60	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
37	38 1/2	990.6	49.90	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
38	39 1/2	1016.0	51.20	CUTTING STRUCTURE							
39	40 1/2	1041.4	52.50	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
40	41 1/2	1066.8	53.80	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
41	42 1/2	1092.2	55.10	CUTTING STRUCTURE							
42	43 1/2	1117.6	56.40	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
43	44 1/2	1143.0	57.70	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
44	45 1/2	1168.4	59.00	CUTTING STRUCTURE							
45	46 1/2	1193.8	60.30	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
46	47 1/2	1219.2	61.60	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
47	48 1/2	1244.6	62.90	CUTTING STRUCTURE							
48	49 1/2	1270.0	64.20	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
49	50 1/2	1295.4	65.50	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
50	51 1/2	1320.8	66.80	CUTTING STRUCTURE							
51	52 1/2	1346.2	68.10	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
52	53 1/2	1371.6	69.40	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
53	54 1/2	1397.0	70.70	CUTTING STRUCTURE							
54	55 1/2	1422.4	72.00	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
55	56 1/2	1447.8	73.30	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
56	57 1/2	1473.2	74.60	CUTTING STRUCTURE							
57	58 1/2	1498.6	75.90	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
58	59 1/2	1524.0	77.20	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
59	60 1/2	1549.4	78.50	CUTTING STRUCTURE							
60	61 1/2	1574.8	79.80	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
61	62 1/2	1600.2	81.10	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
62	63 1/2	1625.6	82.40	CUTTING STRUCTURE							
63	64 1/2	1651.0	83.70	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
64	65 1/2	1676.4	85.00	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
65	66 1/2	1701.8	86.30	CUTTING STRUCTURE							
66	67 1/2	1727.2	87.60	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
67	68 1/2	1752.6	88.90	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
68	69 1/2	1778.0	90.20	CUTTING STRUCTURE							
69	70 1/2	1803.4	91.50	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
70	71 1/2	1828.8	92.80	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
71	72 1/2	1854.2	94.10	CUTTING STRUCTURE							
72	73 1/2	1879.6	95.40	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
73	74 1/2	1905.0	96.70	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
74	75 1/2	1930.4	98.00	CUTTING STRUCTURE							
75	76 1/2	1955.8	99.30	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
76	77 1/2	1981.2	100.60	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
77	78 1/2	2006.6	101.90	CUTTING STRUCTURE							
78	79 1/2	2032.0	103.20	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
79	80 1/2	2057.4	104.50	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
80	81 1/2	2082.8	105.80	CUTTING STRUCTURE							
81	82 1/2	2108.2	107.10	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
82	83 1/2	2133.6	108.40	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
83	84 1/2	2159.0	109.70	CUTTING STRUCTURE							
84	85 1/2	2184.4	111.00	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
85	86 1/2	2209.8	112.30	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
86	87 1/2	2235.2	113.60	CUTTING STRUCTURE							
87	88 1/2	2260.6	114.90	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
88	89 1/2	2286.0	116.20	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
89	90 1/2	2311.4	117.50	CUTTING STRUCTURE							
90	91 1/2	2336.8	118.80	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
91	92 1/2	2362.2	120.10	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
92	93 1/2	2387.6	121.40	CUTTING STRUCTURE							
93	94 1/2	2413.0	122.70	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
94	95 1/2	2438.4	124.00	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
95	96 1/2	2463.8	125.30	CUTTING STRUCTURE							
96	97 1/2	2489.2	126.60	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
97	98 1/2	2514.6	127.90	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
98	99 1/2	2540.0	129.20	CUTTING STRUCTURE							
99	100 1/2	2565.4	130.50	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
100	101 1/2	2590.8	131.80	TOTAL HOURS RUN	16 3/4	CENTRIFUGE					
101	102 1/2	2616.2	133.10	CUTTING STRUCTURE							
102	103 1/2	2641.6	134.40	TOTAL METRES DRILLED (m)	12	HOURS RUN	INTAKE DENSITY (kg/m³)	OVERFLOW DENSITY (kg/m³)	UNDERFLOW DENSITY (kg/m³)		
103	104 1/2										

153699

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 & Stock Diagram Posted	Initial	Initial
(5) Flare Lines Staked	Initial	Initial
(6) BOP Drills Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Gasagage 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/ri/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY	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)
2006	10	17	RIG NO. 58	339.7	313.3	142	BTA C	K55	55	711.20	6.47	710
FUEL @ 8:00												
RIG	BOILER											
W E A T H E R	TEMPERATURE	°C	D.C.T.P. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	T.O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	
CURRENT CONDITIONS	150		150	14.5 DC	E3	63	150	5/8-11	23	F1000	EMSCO	
WIND DIRECTION	127		127	14.55 HUDD	E3	76	156	4 1/4-11	16	F1000	EMSCO	
ROAD	127		127	38.07	E3	101	156	4 3/8-11	13	F1000	EMSCO	
	127		127	29.02	E2	108	158	4 3/8-11	150			

[illegible][illegible]

DRILLING ASSEMBLY (At End of Tour)			LENGTH	BIT RECORD			MUD RECORD			METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
NO.	BIT	O.D. (mm)		BIT NO.			MUD TYPE	☒ WATER BASED	☐ OIL BASED	FROM	TO	D.R.D. TRA. CORE C.	ROTARY R.P.M.	WT. ON BIT (POUNDS)	FROM	TO	ELAP. TIME	CODE NO.			
1	2 1/2" SUB	211.5	211.5	22C			TIME			15:00	20:00	23:00			16:00	14:45	3/4	2	DRILL 2112m - 2113m		
2	2 1/2" SUB	211.5	211.5	311			DENSITY kg/m ³			1625	1625	1630			1645	1745	1	22	CHANGE HEAD/LINER ON PUMP #1		
3	2 1/2" SUB	211.5	211.5	5MTH			FUNNEL VIS. - (S/L)			80	72	74			1745	1800	1/2	20	ORIENT TOOL FACES		
4	2 1/2" SUB	211.5	211.5	F 10TP			W.L. (cm ³)			8.0	8.0	8.0			1800	2400	6	2	DRILL 2113m - 2117m		
5	2 1/2" SUB	211.5	211.5	2LW 4035			pH			10.0	10.0	10.0									
6	2 1/2" SUB	211.5	211.5	JETS (mm)			FT			77.1	77.6	81.9									
7	2 1/2" SUB	211.5	211.5	DEPTH OUT (m)			MUD MATERIALS ADDED			SOLIDS CONTROL											
8	2 1/2" SUB	211.5	211.5	DEPTH IN (m)			PRODUCT	AMOUNT X UNIT		DESILTER											
9	2 1/2" SUB	211.5	211.5	TOTAL METRES DRILLED (m)			HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)											
10	2 1/2" SUB	211.5	211.5	TOTAL HOURS RUN			CENTRIFUGE														
11	2 1/2" SUB	211.5	211.5	CUTTING STRUCTURE			HOURS RUN	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)											
12	2 1/2" SUB	211.5	211.5	T ₁ T ₂ MDC LOC																	
13	2 1/2" SUB	211.5	211.5	B Gage ODC Reason Pulled Total Run m/hr.																	
14	2 1/2" SUB	211.5	211.5	KELLY DOWN																	
15	2 1/2" SUB	211.5	211.5	TOTAL																	
16	2 1/2" SUB	211.5	211.5	WT. OF DC																	
17	2 1/2" SUB	211.5	211.5	WT. OF STRING																	
18	2 1/2" SUB	211.5	211.5	HOLE CONDITION																	
19	2 1/2" SUB	211.5	211.5	HOLE DRAG																	
20	2 1/2" SUB	211.5	211.5	TORQUE AT BOTTOM																	
21	2 1/2" SUB	211.5	211.5	FILL ON BOTTOM (m)																	
22	2 1/2" SUB	211.5	211.5																		
23	2 1/2" SUB	211.5	211.5																		
24	2 1/2" SUB	211.5	211.5																		
25	2 1/2" SUB	211.5	211.5																		
26	2 1/2" SUB	211.5	211.5																		
27	2 1/2" SUB	211.5	211.5																		
28	2 1/2" SUB	211.5	211.5																		
29	2 1/2" SUB	211.5	211.5																		
30	2 1/2" SUB	211.5	211.5																		
31	2 1/2" SUB	211.5	211.5																		
32	2 1/2																				

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153698

LICENCE NO.:	WELL NAME AND NO.:
1900	CANADIAN FOREST REAL NORTH LARD C-31
OPERATOR:	CONTRACTOR:
CANADIAN FOREST OIL	ALTA DRILLING LTD
SURFACE LOCATION:	UNIQUE ID.:
300 C-31 6040 12330 0	300 C-31 6040 12330 0
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) 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 DOP's - Flarelines & Debris Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (one/week/month)	Initial	Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/week/month)	Initial	Initial
(3) Mast Inspection Before Raising or Lowering	Initial	Initial
(4) Crown Saver Checked	Initial	Initial
(5) Motor Kilo checked	Initial	Initial

YEAR	MONTH	DAY	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)
2000	10	10	359-7	315.34	161.2	BT+C	155	55	711.70	6.47	710	
RIG NO.	58	FUEL @ 8:00										
RIG	97	BOILER	W E A T H E R									
TEMPERATURE	°C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)	
CURRENT CONDITIONS	127	127	7125	1000	76	150	440	26	F1000	EMISCO	251	
WIND DIRECTION	127	3807	83	101	150	440	100	26	F1000	EMISCO	251	
ROAD	127	2302	62	101	150	440	100	26	F1000	EMISCO	251	

TIME	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	TOTALS	SHAPE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
OPR	RIG UP & YEAR	DRILL ACTUAL	REAMING	CORING	CONC. MUD & CIRC	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV SURVEY	WIRE LINE LOSS	RUN CASE & CEMENT	WAIT ON CEMENT	HOIST UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MTG.	BOP DRILL	WATER	REFINE									
MORN							1/4																										
DAY																																	
EVE																																	
TOTAL																																	

DRILLING ASSEMBLY (At End of Tour)										BIT RECORD										MUD RECORD										METRES DRILLED										TIME LOG										DETAILS OF OPERATION IN SEQUENCE AND REMARKS									
NO.	BIT	O.D. (mm)	LENGTH (m)	BIT NO.	210	MUD TYPE	WATER BASED	OIL BASED	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS											
1	BIT	8.99	7.1	SIZE (mm)	311	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
2	BIT	17.57	5.52	IADC CODE	437X	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
3	BIT	27.01	5.52	MFG.	SMITH	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
4	BIT	34.39	5.52	TYPE	F10TP	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
5	BIT	41.48	5.52	SERIAL NO.	LW4037	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
6	BIT	48.96	5.52	JETS	OPEN	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
7	BIT	56.44	5.52	DEPTH OUT (m)	2028	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
8	BIT	63.92	5.52	DEPTH IN (m)	2028	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
9	BIT	71.40	5.52	TOTAL METRES DRILLED (m)	72	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
10	BIT	78.92	5.52	TOTAL HOURS RUN	59	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
11	BIT	86.40	5.52	CUTTING STRUCTURE	MOD LOC	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
12	BIT	93.92	5.52	STANDS	1803.7	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
13	BIT	101.40	5.52	SINGLES	19.33	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
14	BIT	108.92	5.52	KELLY DOWN	9.58	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
15	BIT	116.40	5.52	TOTAL	2100	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
16	BIT	123.92	5.52	WT. OF DC	33000	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
17	BIT	131.40	5.52	WT. OF STRING	91000	TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS														
18	BIT	138.92	5.52	HOLE CONDITION										TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS						
19	BIT	146.40	5.52	HOLE CONDITION										TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS						
20	BIT	153.92	5.52	HOLE CONDITION										TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW DENSITY (kg/m ³)	FROM	TO	DRD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 daN)	FROM	TO	ELAP. TIME	CODE NO.	DETAILS OF OPERATION IN SEQUENCE AND REMARKS						
21	BIT	161.40	5.52	HOLE CONDITION										TIME	03:00	04:00	06:00	DENSITY kg/m ³	1620	1625	1625	FUNNEL VIS. (S/L)	80	75	71	W.L. (cm ³)	9.0	9.5	8.0	pH	10.0	10.5	10.5	P.V.T.	91.0	91.0	90.6	MUD MATERIALS ADDED	SOLIDS CONTROL	DESILTER	INTAKE DENSITY (kg/m ³)	OVERFLOW DENSITY (kg/m ³)	UNDERFLOW																

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153697

LICENCE NO.: 19004	WELL NAME AND NO.: Canadian Forest 200 North LERO C-31
OPERATOR: Canadian Forest 200	CONTRACTOR: AKITA Drilling LTD
SURFACE LOCATION: 3000 C 31 6040 12330 0	UNIQUE ID.: 300 C 31 6040 12330 0
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [Signature]	SIGNATURE OF CONTRACTOR'S RIG MANAGER: [Signature]

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

YEAR: 2020 MONTH: 10 DAY: 15	LAST CASING TUBING OR LINER: 3307 315 81 101 BT-C	O.D. (mm): 3307	MIN. I.D. (mm): 315 81	kg/m: 101	MAKE: BT-C	GRADE: K55	NO. OF JOINTS: 55	TOTAL (m) LENGTH: 711.20	KB. TO CSG HEAD (m): 6.97	SET AT (m): 710	
RIG NO.: 136	BOILER: 136	TEMPERATURE °C: 127	LINEAR MASS (kg/m): 71.85	GRADE: HWD	MIN. I.D. (mm): 76	TOOL JOINT (mm): 156	TYPE THREAD: 4411	NO. OF JOINTS: 22	PUMP TYPE: F1020	PUMP MANUFACTURER: RWS	STROKE LTH. (mm): 254
CURRENT CONDITIONS: 127	WIND DIRECTION: 127	ROAD: 927	LINEAR MASS (kg/m): 39.27	GRADE: H3	MIN. I.D. (mm): 101	TOOL JOINT (mm): 156	TYPE THREAD: 4411	NO. OF JOINTS: 138	PUMP TYPE: F1000	PUMP MANUFACTURER: RWS	STROKE LTH. (mm): 254

TIME - H - R S	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	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES			MORN	DAY	EVE			
	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	DIP WORK	SAFETY MTG.	ACUTE PUMP							ID	TYPE								
	MORN.		7 1/4					1 1/2			1 1/4											1 1/4	3 1/4							8	2 SHAKER	FIC	7115 586530						
	DAY		1 1/4					1 1/4			1 1/4																			8	SCREENS CHANGED	☒ YES ☐ NO	AMS 8282						
	EVE.		7 1/4					1 1/2			1 1/4																			8	TOP	TOP	ACUM OIL - 36						
	TOTAL		21					4 1/4			3 1/4											4 1/4	3 1/4							27	MIDDLE	MIDDLE							
																														BOTTOM	BOTTOM								

DRILLING ASSEMBLY (At End of Tour)		LENGTH	BIT RECORD		MUD RECORD			
NO.	BIT	O.D. (mm)	BIT NO.	21C	MUD TYPE	WATER BASED	OIL BASED	
1	21C	21.5	SIZE (mm)	311	TIME	02:00	04:00	06:00
2	21C	21.5	IADC CODE	437X	DENSITY kg/m³	1625	1615	1615
3	21C	21.5	MFG.	SMITH	FUNNEL VIS. - (S/L)	72	76	77
4	21C	21.5	TYPE	F10TP	W.L. (cm³)	7.5	7.0	7.5
5	21C	21.5	SERIAL NO.	LW4037	pH	11.3	11.4	11.0
6	21C	21.5	JETS (mm)	OPEN	P.V.T. m³	96.2	99.5	81.1
7	21C	21.5	DEPTH OUT (m)		MUD MATERIALS ADDED	SOLIDS CONTROL		
8	21C	21.5	DEPTH IN (m)	2028	PRODUCT	AMOUNT X UNIT	DESILTER	
9	21C	21.5	TOTAL METRES DRILLED (m)	46	STARRAK	15X	HOURS RUN	
10	21C	21.5	TOTAL HOURS RUN	37.5	DESPAC	15X	INTAKE DENSITY (kg/m³)	
11	21C	21.5	CUTTING STRUCTURE				OVERFLOW DENSITY (kg/m³)	
12	21C	21.5	STANDS	1835-31			UNDERFLOW DENSITY (kg/m³)	
13	21C	21.5	SINGLES	18.76			CENTRIFUGE	
14	21C	21.5	KELLY DOWN	6.6			HOURS RUN	
15	21C	21.5	TOTAL	2074			INTAKE DENSITY (kg/m³)	
16	21C	21.5	WT.OFDC	33000			OVERFLOW DENSITY (kg/m³)	
17	21C	21.5	WT.OFSTRING	90000			UNDERFLOW DENSITY (kg/m³)	
18	21C	21.5	TORQUE AT BOTTOM	8-1000 FT/LBS			CENTRIFUGE	
19	21C	21.5	FILL ON BOTTOM (m)				HOURS RUN	
20	21C	21.5					INTAKE DENSITY (kg/m³)	
21	21C	21.5					OVERFLOW DENSITY (kg/m³)	
22	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
23	21C	21.5					CENTRIFUGE	
24	21C	21.5					HOURS RUN	
25	21C	21.5					INTAKE DENSITY (kg/m³)	
26	21C	21.5					OVERFLOW DENSITY (kg/m³)	
27	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
28	21C	21.5					CENTRIFUGE	
29	21C	21.5					HOURS RUN	
30	21C	21.5					INTAKE DENSITY (kg/m³)	
31	21C	21.5					OVERFLOW DENSITY (kg/m³)	
32	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
33	21C	21.5					CENTRIFUGE	
34	21C	21.5					HOURS RUN	
35	21C	21.5					INTAKE DENSITY (kg/m³)	
36	21C	21.5					OVERFLOW DENSITY (kg/m³)	
37	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
38	21C	21.5					CENTRIFUGE	
39	21C	21.5					HOURS RUN	
40	21C	21.5					INTAKE DENSITY (kg/m³)	
41	21C	21.5					OVERFLOW DENSITY (kg/m³)	
42	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
43	21C	21.5					CENTRIFUGE	
44	21C	21.5					HOURS RUN	
45	21C	21.5					INTAKE DENSITY (kg/m³)	
46	21C	21.5					OVERFLOW DENSITY (kg/m³)	
47	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
48	21C	21.5					CENTRIFUGE	
49	21C	21.5					HOURS RUN	
50	21C	21.5					INTAKE DENSITY (kg/m³)	
51	21C	21.5					OVERFLOW DENSITY (kg/m³)	
52	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
53	21C	21.5					CENTRIFUGE	
54	21C	21.5					HOURS RUN	
55	21C	21.5					INTAKE DENSITY (kg/m³)	
56	21C	21.5					OVERFLOW DENSITY (kg/m³)	
57	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
58	21C	21.5					CENTRIFUGE	
59	21C	21.5					HOURS RUN	
60	21C	21.5					INTAKE DENSITY (kg/m³)	
61	21C	21.5					OVERFLOW DENSITY (kg/m³)	
62	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
63	21C	21.5					CENTRIFUGE	
64	21C	21.5					HOURS RUN	
65	21C	21.5					INTAKE DENSITY (kg/m³)	
66	21C	21.5					OVERFLOW DENSITY (kg/m³)	
67	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
68	21C	21.5					CENTRIFUGE	
69	21C	21.5					HOURS RUN	
70	21C	21.5					INTAKE DENSITY (kg/m³)	
71	21C	21.5					OVERFLOW DENSITY (kg/m³)	
72	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
73	21C	21.5					CENTRIFUGE	
74	21C	21.5					HOURS RUN	
75	21C	21.5					INTAKE DENSITY (kg/m³)	
76	21C	21.5					OVERFLOW DENSITY (kg/m³)	
77	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
78	21C	21.5					CENTRIFUGE	
79	21C	21.5					HOURS RUN	
80	21C	21.5					INTAKE DENSITY (kg/m³)	
81	21C	21.5					OVERFLOW DENSITY (kg/m³)	
82	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
83	21C	21.5					CENTRIFUGE	
84	21C	21.5					HOURS RUN	
85	21C	21.5					INTAKE DENSITY (kg/m³)	
86	21C	21.5					OVERFLOW DENSITY (kg/m³)	
87	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
88	21C	21.5					CENTRIFUGE	
89	21C	21.5					HOURS RUN	
90	21C	21.5					INTAKE DENSITY (kg/m³)	
91	21C	21.5					OVERFLOW DENSITY (kg/m³)	
92	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
93	21C	21.5					CENTRIFUGE	
94	21C	21.5					HOURS RUN	
95	21C	21.5					INTAKE DENSITY (kg/m³)	
96	21C	21.5					OVERFLOW DENSITY (kg/m³)	
97	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
98	21C	21.5					CENTRIFUGE	
99	21C	21.5					HOURS RUN	
100	21C	21.5					INTAKE DENSITY (kg/m³)	
101	21C	21.5					OVERFLOW DENSITY (kg/m³)	
102	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
103	21C	21.5					CENTRIFUGE	
104	21C	21.5					HOURS RUN	
105	21C	21.5					INTAKE DENSITY (kg/m³)	
106	21C	21.5					OVERFLOW DENSITY (kg/m³)	
107	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
108	21C	21.5					CENTRIFUGE	
109	21C	21.5					HOURS RUN	
110	21C	21.5					INTAKE DENSITY (kg/m³)	
111	21C	21.5					OVERFLOW DENSITY (kg/m³)	
112	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
113	21C	21.5					CENTRIFUGE	
114	21C	21.5					HOURS RUN	
115	21C	21.5					INTAKE DENSITY (kg/m³)	
116	21C	21.5					OVERFLOW DENSITY (kg/m³)	
117	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
118	21C	21.5					CENTRIFUGE	
119	21C	21.5					HOURS RUN	
120	21C	21.5					INTAKE DENSITY (kg/m³)	
121	21C	21.5					OVERFLOW DENSITY (kg/m³)	
122	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
123	21C	21.5					CENTRIFUGE	
124	21C	21.5					HOURS RUN	
125	21C	21.5					INTAKE DENSITY (kg/m³)	
126	21C	21.5					OVERFLOW DENSITY (kg/m³)	
127	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
128	21C	21.5					CENTRIFUGE	
129	21C	21.5					HOURS RUN	
130	21C	21.5					INTAKE DENSITY (kg/m³)	
131	21C	21.5					OVERFLOW DENSITY (kg/m³)	
132	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
133	21C	21.5					CENTRIFUGE	
134	21C	21.5					HOURS RUN	
135	21C	21.5					INTAKE DENSITY (kg/m³)	
136	21C	21.5					OVERFLOW DENSITY (kg/m³)	
137	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
138	21C	21.5					CENTRIFUGE	
139	21C	21.5					HOURS RUN	
140	21C	21.5					INTAKE DENSITY (kg/m³)	
141	21C	21.5					OVERFLOW DENSITY (kg/m³)	
142	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
143	21C	21.5					CENTRIFUGE	
144	21C	21.5					HOURS RUN	
145	21C	21.5					INTAKE DENSITY (kg/m³)	
146	21C	21.5					OVERFLOW DENSITY (kg/m³)	
147	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
148	21C	21.5					CENTRIFUGE	
149	21C	21.5					HOURS RUN	
150	21C	21.5					INTAKE DENSITY (kg/m³)	
151	21C	21.5					OVERFLOW DENSITY (kg/m³)	
152	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
153	21C	21.5					CENTRIFUGE	
154	21C	21.5					HOURS RUN	
155	21C	21.5					INTAKE DENSITY (kg/m³)	
156	21C	21.5					OVERFLOW DENSITY (kg/m³)	
157	21C	21.5					UNDERFLOW DENSITY (kg/m³)	
158	21C	21.5					CENTRIFUGE	
159	21C	21.5					HOURS RUN	
160	21C	21.5					INTAKE DENSITY (kg/m³)	
161	21C	21.5						

FOLD HERE →

153696

LICENCE NO.: 1900	WELL NAME AND NO.: CANADIAN FOREST LPAE NORTH LIARD C-31
OPERATOR: CANADIAN FOREST OIL	CONTRACTOR: AKITA DRILLING LTD.
SURFACE LOCATION: 300 C-31 6040 12330 0	UNIQUE ID: 300 C-31 6040 12330 0
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) H/S Signs Posted (if required)	Initial	Initial
(4) Well License and 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: 2000	MONTH: 12	DAY: 14	LAST CASING TUBING OR LINER	O.D. (mm): 339.7	MIN. I.D. (mm): 315.3	kg/m: 101.7	MAKE: B74C	GRADE: K5555	NO. OF JOINTS: 711.70	TOTAL (m) LENGTH: 6.47	KB. TO CSG HEAD (m): 710	SET AT (m):
RIG NO: 58	FUEL @ 8:00											
RIG: 172	BOILER											
TEMPERATURE °C	DO/D.P. SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT O.D. (mm)	TYPE THREAD	NO. OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)		
CURRENT CONDITIONS	127	74.35	HWP	76	150	444E	10	F1000	PMSCO	254		
WIND DIRECTION	127	38.07	E3	101	156	444E	158	F1000	PMSCO	254		
ROAD	127	24.02	E2	108	158	444E	150					

TIME	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	TOTALS	SHALE SHAKER(S)	RENTALS/SERVICES	MORN	DAY	EVE
MORN	OPER	RIG UP & TIE DOWN	DRILL ACTUAL	REAMING CORING	CONO. MUD & CIRC.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RLN. 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.												
DAY			7 1/2					1/4		1/4																							
EVE			7 1/2					1/4		1/4																							
TOTAL			22 3/4					1/2		3/4																							

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED	TIME	DENSITY kg/m³	FUNNEL VIS. - (S/L)	W.L. (cm)	pH	JETS (mm)	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METRES DRILLED (m)	TOTAL HOURS RUN	CUTTING STRUCTURE	T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	
63	D.P. STANDS	1806.65	210	311	1630			04:00	1620	72	7.8	11.0	OPEN	2028	2028	15	15	15										
2	D.P. SINGLES	1916	210	311	1630			04:00	1620	72	7.8	11.0	OPEN	2028	2028	15	15	15										
	KELLY DOWN	9.34																										
	TOTAL	2043																										
	WT.OF DC	33000																										
	WT.OF STRING																											

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED	TIME	DENSITY kg/m³	FUNNEL VIS. - (S/L)	W.L. (cm)	pH	JETS (mm)	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METRES DRILLED (m)	TOTAL HOURS RUN	CUTTING STRUCTURE	T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	
1	D.P. STANDS	1806.65	210	311	1630			08:00	1620	85	8.0	11.0	OPEN	2028	2028	15	15	15										
2	D.P. SINGLES	1916	210	311	1630			08:00	1620	85	8.0	11.0	OPEN	2028	2028	15	15	15										
	KELLY DOWN	7.54																										
	TOTAL	2054																										
	WT.OF DC	33000																										
	WT.OF STRING	89000																										

NO.	DRILLING ASSEMBLY (At End of Tour)	LENGTH	BIT NO.	SIZE (mm)	MUD TYPE	WATER BASED	OIL BASED	TIME	DENSITY kg/m³	FUNNEL VIS. - (S/L)	W.L. (cm)	pH	JETS (mm)	DEPTH OUT (m)	DEPTH IN (m)	TOTAL METRES DRILLED (m)	TOTAL HOURS RUN	CUTTING STRUCTURE	T ₁	T ₂	MDC	LOC	B	Gage	ODC	Reason Pulled	Total Run m/hr.	
67	D.P. STANDS	1835.31	210	311	1620			18:00	1635	79	8.0	11.0	OPEN	2028	2028	15	15	15										
1	D.P. SINGLES	9108	210	311	1620			18:00	1635	79	8.0	11.0	OPEN	2028	2028	15	15	15										
	KELLY DOWN	652																										
	TOTAL	2065																										
	WT.OF DC	33000																										
	WT.OF STRING	89000																										

METRES DRILLED	TIME LOG	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
FROM: 2036 TO: 2043	7 1/2	DRILL 2036m - 2043m
CIRCULATION PRESSURE (kPa): 14800	PUMP NO. 1: 152 85 S.P.M.	TOP DRIVE SER. - CLOSE LOWER PIPE 6SEC.
REDUCED PUMP SPEED		
DEVIATION SURVEY		
DEPTH (m): 2036.57	DEVIATION (°): 43	DIRECTION: 139.9
DRILLER SIGNATURE		
HRS. RAN: 0	BOILER ph: 110 3000	SAFETY TOPIC: PICKUP SINGLES

METRES DRILLED	TIME LOG	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
FROM: 2043 TO: 2054	11 30 2	DRILL 2043m - 2052m
CIRCULATION PRESSURE (kPa): 15300	PUMP NO. 1: 152 87 S.P.M.	DRILL 2052m - 2053m
REDUCED PUMP SPEED		
DEVIATION SURVEY		
DEPTH (m): 2035.3	DEVIATION (°): 4.0	DIRECTION: 145.3
DRILLER SIGNATURE		
HRS. RAN: 0	BOILER ph: 115 000 DAN	SAFETY TOPIC: 1603 kg

METRES DRILLED	TIME LOG	DETAILS OF OPERATION IN SEQUENCE AND REMARKS
FROM: 2054 TO: 2065	11 30 2	DRILL 2054m - 2062m
CIRCULATION PRESSURE (kPa): 14900	PUMP NO. 1: 152 85 S.P.M.	DRILL 2062m - 2065m
REDUCED PUMP SPEED		
DEVIATION SURVEY		
DEPTH (m): 2044.85	DEVIATION (°): 3.7	DIRECTION: 147.6
DRILLER SIGNATURE		
HRS. RAN: 0	BOILER ph: 115 000	SAFETY TOPIC: PICKUP SINGLES

153695

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) Wall Licenses & Stisk Diagram Posted	Initial	Initial
(5) Flame Lines Staked	Initial	Initial
(6) BOP Gully Performed	Initial	Initial
(7) Visually inspect BOP's - Flarelines & Deepzest Lines	Initial	Initial
(1) Rig Site Health and Safety Meeting (once/month)	Initial	Initial
(2) C.A.D.C. Rig Safety Inspection Checklist (weekly/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	LAST	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)
2000	10	13	CASING	339.7	315.34	10.12	BTC	K55	35	711.20	6.47	710
RIG NO.	58		TUBING OR LINER									
FUEL @ 8:00												
RIG	2.08		SOILER									
WEATHER	TEMPERATURE	°C	DC/DP SIZE (mm)	LINEAR MASS (kg/m)	GRADE	MIN. ID (mm)	TOOL JOINT O.D. (mm)	TYPE THREAD	NO OF JOINTS	PUMP TYPE	PUMP MANUFACTURER	STROKE LTH. (mm)
	CURRENT CONDITIONS		178	21.35	DC	63	178	5/8"	23	F1000	EMSCO	254
	WIND DIRECTION		137	34.07	E3	76	156	1/2"	16	F1000	EMSCO	254
	ROAD		137	29.02	E2	108	128	3/4"	150			

TIME - HRS	CODE NO.																										TOTAL	SHALE SHAKER(S)		RENTALS/SERVICES				
	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		NO.	TYPE	SCREENS	DAY	TIME		
	OFFER	RIG UP & TEAR DOWN	DRILL ACTUAL	HEAVING	CORING	COND. MAINT. & O.B.	TRIPS	RIG SERVICE	REPAIR RIG	CUT OFF DRILL LINE	DEV. SURVEY	WIRE LINE LOGS	RUN CASE & CEMENT	WAIT ON CEMENT	NOVALE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DR. WORK	SAFETY MTG.	WORK ON RIG					8	NO. 175	YES	TIME 385888			
MORN.			1 3/4			1 1/2	3 1/2	1/4			1/4											1/4		1/2					8	SCREENS CHANGED ☐ YES ☐ NO	TIME 7640			
DAY			1/2			3	6	1/4																				8	TOP 175	TOP 140	ARMON OIL 36			
EVE			7			3		1/2			1/2																	8	MIDDLE 140	MIDDLE 175				
TOTAL			9 1/4			2 1/2	9 1/2	1			3/4										1/4		1/2					24	BOTTOM 140	BOTTOM 175				

METRES DRILLED						TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	DHD BAR CORE-C	ROTARY R.P.M.	WT. ON BIT (1000 lbs)	FROM	TO	ELAP. TIME	CODE NO.			
2027	2028	1	MTR	32	0000	0015	1/2	2	DRILL F/2027m - 2027m		
					0015	0045	1/2	22	WORK ON PUMP # 2		
					0045	0245	1/2	2	DRILL F/2027m - 2028m		
					0215	0230	1/2	10	Survey		
					0230	0345	1/2	5	CLAC BITTING UP		
					0345	0400	1/2	7	RIG SER - Close ANW 20sec RRSP#1		
5750	@	8	@	2027	0400	0445	3/4	6	PoolH 2028m - 1707m		
REDUCED PUMP SPEED					0445	0515	1/2	5	Pump Pull & Flow ✓		
DEVIATION SURVEY					0515	0800	1/2	4	PoolH 1707m - Flow ✓ 1238m.		
DEPTH (m)	DEVIATION (°)	DIRECTION									
2009.6	4.6	136									
TRIP RECORD					NOTES						
Cal 1348					Check Chain Anchor Fastener Clamp Deadline Axle - BRKES						
Mile 11.53 m/s					LINKAGE						
Mile 11.53 m/s											
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.
Joe Burgess					HRS. RAN	ph	STACK TEMP.	120,000			

METRES DRILLED					TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS				
FROM	TO	GR-D RM-B CODE-C	ROTARY R.P.M.	WT ON BT (1000 data)	FROM	TO	BLAR TIME	CODE NO					
2028	2029		35	25	800	1010	2	6	100m Flow & Height of Hole				
					1000	1015	1/4	7	K/S FUNCTION BLIND RAN 8 SEC 1/8				
					1015	1230	2 1/2	6	M/V BIT # 210 F K/H to 733m Flow				
CIRCULATION PRESSURE (kPa)	PUMP NO. 1		PUMP NO. 2		1230	1245	1/4	10	TEST MUD TOOLS				
	LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.	1245	1345	1	6	K/H 733m-1393m Flow				
1500	152	55	152	55	1345	1400	1/4	5	BKA. CIRC @ 1393m				
REDUCED PUMP SPEED					1400	1445	3/4	6	K/H 1393m - 2004m				
	@		@		1445	1530	3/4	5	BKA. CIRC & WASH DOWN 2004m - 2028m				
DEVIATION SURVEY					1530	1600	1/2	2	DRILL 2028m - 2029m				
DEPTH (m)	DEVIATION (°)		DIRECTION										
NOTES					VERVIEW SIVER, FASTLINE CLAMP, LEADLINE ARMOR								
DRILLER SIGNATURE					BOILER HRS. RAN ph STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
					150000 TAN						1637 KDA		

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS			
FROM	TO	D.R. DRILL CONNECTION	ROTARY B.P.M.	WT. ON BIT (100psi)	FROM	TO	ELAP. TIME	CODE NO.					
2029	2034	7	30	35	1600	1830	2 1/2	2	DRILL 2029m - 2032m				
					1930	2000	1/2	7	TOP DRIVE SERV - RRS P - Close to P.P. 1665				
					2000	2100	1	2	DRILL 2032m - 2034m				
					2100	2130	1/10		SURVEY				
					2130	2400	2 1/2	2	DRILL 2034m - 2036m				
REDUCED PUMP SPEED													
5800	@	100	@	85									
DEVIATION SURVEY													
DEPTH (m)	DEVIATION (°)	DIRECTION											
2060.19	48	130.3											
16													
					NOTES								
					Back Crown SAKER T&T LINE CLAMP DEADEND Anchor - CRANK LINKAGE								
DRILLER SIGNATURE					BOILER		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.		
[Signature]					ph		STACK TEMP.				1637 KPA		

153694

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 (once/month)		Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/ri/month)		Initial
(3) Mast Inspection Before Raising or Lowering		Initial
(4) Crown Saver Checked		Initial
(5) Motor Kills checked		Initial

YEAR	MONTH	DAY	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)	WEATHER
2000	10	12											
RIG NO. 58				339.7	315.34	101.2	BTGL	K55	55	711.20	6.47	710	
FUEL @ 8:00													
RIG 150 BOILER													
TEMPERATURE °C	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)	
	255		222.4	DC	75	222	THRO						
	178		174.0	DC	63	178	5/8"	23	F-1000	EMSCO		254	
	127		74.35	FW	76	156		16					
WIND DIRECTION	127		38.07	F3	101	156	4 1/2" F	138	F-1000	EMSCO		254	
	187		29.02	F3	108	158	V	150					
ROAD													

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	TOTALS	SHALE SHAKER(S)		RENTALS/SERVICES		MORN	DAY	EVE
		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	HLN CASE & CEMENT	WAIT ON CEMENT	NUDLE UP B.O.P.	TEST B.O.P.	DRILL STEM TEST	PLUG BACK	SQUEEZE CEMENT	FISHING	DRIL WORK	SAFETY MTG.	Work on Prod.		NO.	TYPE									
	MORN.																											8	SCREENS CHANGED ☐ YES ☐ NO						
	DAY																											8	TOP 140	TOP 140					
	EVE																											8	MIDDLE 175	MIDDLE 140					
	TOTAL																											24	BOTTOM 175	BOTTOM 140					

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	CORD. RM. CORREC	ROTARY R.P.M.	WT. ON BIT (1000slugs)	FROM	TO	ELAP. TIME	CODE NO.				
2005	2013	8	25	32	0000	0100	1	2	Drill 311 mm hole F/2005m - 2005.50m			
		ROTARY	25	26	0100	0115	1/4	10	Survey @ 1987m			
					0115	0145	1/2	2	Drill F/2005m - 2006m			
					0145	0215	1/2	22	Change head in Pump #1, Circulate & Work Pipe.			
14700	152	85	152	85	0215	0230	1/4	20	Orient Tool Face.			
REDUCED PUMP SPEED					0230	0800	5 1/2	2	Drill F/2006.50m - 2013m			
5800	@	85	@	2005m								
DEVIATION SURVEY												
DEPTH (m)	DEVIATION (°)		DIRECTION									
1987.37	4.5		109.5									
NOTES					✓ Crown Saver, Fastline Clamp, Dredline Anchor, Brakes & Linkage.							
DRILLER SIGNATURE					HRS.	RAN	BOILER ph	STACK TEMP.	MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC	M.A.C.P.
Boris Pabnick					0	-	-	-	115000 DAW		Comp Power Plant	1568 KPA

METRES DRILLED					TIME LOG		DETAILS OF OPERATION IN SEQUENCE AND REMARKS								
FROM	TO	DR-D R.A.P. CORE-C	ROTARY R.P.M.	WT. ON BIT (1000.000)	FROM	TO	ELAP. TIME	CODE NO.							
2013	2019	6.25	26	26	0800	0945	14	2	DRILL 2013m - 2015m						
		12.5	32	32	0945	1015	1/2	10	SURVEY						
					1015	1600	54	2	DRILL 2015m - 2019m						
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2											
		LINER SIZE (mm)	S.P.M.	LINER SIZE (mm)	S.P.M.										
14760		152	85	152	85										
REDUCED PUMP SPEED															
		@		@											
DEVIATION SURVEY															
DEPTH (m)		DEVIATION (°)		DIRECTION											
177004		4.4		123.7											
						Recovered 12 m ³ of Active mud									
						hook chain shank - 1st link clamp bend link Anchor chain									
						LINKAGE									
DRILLER SIGNATURE						BOILER HRS. RAN ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
hook link						10		-		89000		CROWTRUCK 540-11568 RPM			

METRES DRILLED						TIME LOG				DETAILS OF OPERATION IN SEQUENCE AND REMARKS					
FROM	TO	D.R.O. R.P.M.	ROTARY R.P.M.	WT. ON BIT (1000 psi)	FROM	TO	ELAP. TIME	CODE NO.							
2019	2027	8	25	20	1600	1815	2 1/2	2	DRILL 2019m - 2023m						
				30	1815	1830	1 1/2	7	K/S FUNCTION TEST PPE ROPS SEC. 9%						
CIRCULATION PRESSURE (kPa)		PUMP NO. 1		PUMP NO. 2		1830	1915	3 1/2	2	DRILL 2023m - 2024m					
		LINE SIZE (mm)	S.P.M.	LINE SIZE (mm)	S.P.M.	1915	1930	1 1/2	10	SURVEY @ 2006m					
1900	152	16		152	15	1930	2200	2 1/2	2	DRILL 2024m - 2026m					
REDUCED PUMP SPEED						2200	2215	1 1/2	2	CHANGE HEAD PUMP #1 FCOR. PUMP #2					
5700	@	60	@	15	2215	2400	1 1/2	2	DRILL 2026m - 2027m						
DEVIATION SURVEY															
DEPTH (m)		DEVIATION (°)		DIRECTION											
2006.7		4.7		133.6											
						NOTES ✓ Crown Saver, Fastline Clamp, Deadline Anchor									
DRILLER SIGNATURE						BOILER HRS. RAN ph		STACK TEMP.		MAXIMUM EXPERIENCED HOOKLOAD		SAFETY TOPIC		M.A.C.P.	
[Signature]						0				115,000				1568 N/A	