FOLD HERE →

125261

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: | UNIQUE ID.:

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

**DAILY CHECKS** (OPR. / R.M.)

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

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

YEAR: 99 | MONTH: 10 | DAY: 16

RIG NO.: 58

**FUEL @ 8:00**

RIG | BOILER

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

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

REVISED MARCH 1996

125261

BOARD COPY

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING 930

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR: 99 | MONTH: 10 | DAY: 15/16

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: | RIG NO.: 58

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

**TIME-HRS**

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

**TOTALS**

**SHALE SHAKER(S)**: NO. | TYPE | SCREENS CHANGED ☐ YES ☐ NO | TOP | TOP | MIDDLE | MIDDLE | BOTTOM | BOTTOM

**RENTALS/SERVICES**

| | MORN | DAY | EVE |
|---|---|---|---|
| | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

**HOLE CONDITION**

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

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**: PRODUCT | AMOUNT X UNIT

**SOLIDS CONTROL**

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

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

## MORNING TOUR

**METRES DRILLED**: FROM | TO | DRD RMR CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

**TIME LOG**: FROM | TO | ELAP. TIME | CODE NO.

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS |
|---|---|---|---|---|
| 8:00 | 20:00 | | | Help Welder on mud tanks, & plumb in Boiler #2 Unload pipe & Drill collars |

Oct 15/99

NOTES

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

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | | ☑ |
| DERRICKMAN | | Ron Cadieux | 12 | | | ☑ |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

Oct 15/99

## DAY TOUR

**METRES DRILLED**: FROM | TO | DRD RMR CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

**TIME LOG**: FROM | TO | ELAP. TIME | CODE NO.

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS |
|---|---|---|---|---|
| 8:00 | 20:00 | | | Sort out Pipe & Y's & Subs for Pipe inspectors |

Oct 16/99

NOTES

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

**DAY TOUR 08:00 TO** ____

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | | ☑ |
| DERRICKMAN | | Ron Cadieux | 12 | | | ☑ |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

Oct 16/99

## EVENING TOUR

**METRES DRILLED**: FROM | TO | DRD RMR CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

**TIME LOG**: FROM | TO | ELAP. TIME | CODE NO.

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

NOTES

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

**EVENING TOUR** ____ **TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | | | | | |
| DERRICKMAN | | | | | | |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125260

REVISED MARCH 1996

125260

BOARD COPY

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| LICENCE NO. | WELL NAME AND NO. |
|---|---|
| | 1863 Canadian Forest et al Flett N-61 |
| OPERATOR | CONTRACTOR |
| Canadian Forest Oil | Akita Drilling LTD |
| SURFACE LOCATION: | UNIQUE ID.: |
| SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: |

**DAILY CHECKS** — OPR. / R.M.

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

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 10 | 13/14 |

RIG NO. 58

**FUEL @ 8:00**

RIG | BOILER

**WEATHER**

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

**TIME-HRS**

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

**TOTALS**

**SHALE SHAKER(S)**

NO. 2 — TYPE Derrick Derrick

SCREENS CHANGED ☐ YES ☐ NO

| | |
|---|---|
| TOP | TOP |
| MIDDLE | MIDDLE |
| BOTTOM | BOTTOM |

**RENTALS/SERVICES** — MORN. / DAY / EVE.

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| Canadian Forest et al Flett N-61 | 99 | 10 | 13/14 |
| OPERATOR | CONTRACTOR | | |
| Canadian Forest Oil | Akita Drilling LTD | | |
| RIG MANAGER | | RIG NO. 58 | |
| PROVINCE NWT | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: | |

## MORNING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 0800 | 2000 | 12 | 1 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Unload Trucks at Rock Site
Load Trucks at Barge crossing

oct 13/99

NOTES

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

**MORNING TOUR 00:00 TO 08:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | ☑ |
| DERRICKMAN | | Ron Cadieux | 12 | | ☑ |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| RIG WATCH | | | | | |

oct 13/99

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 0800 | 2000 | 12 | 1 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Steam Clean Rig
Unload Trucks at Rock site

oct 14/99

NOTES

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

**DAY TOUR 08:00 TO** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | ☑ |
| DERRICKMAN | | Ron Cadieux | 12 | | ☑ |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| RIG WATCH | | | | | |

oct 14/99

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| | | | |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

NOTES

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

**EVENING TOUR** — **TO 24:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | | | | |
| DERRICKMAN | | | | | |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125259

REVISED MARCH 1996

125259

BOARD COPY

CAODC

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

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

**DAILY CHECKS** — OPR. / R.M.

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

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 10 | 12 |

RIG NO. 58

**FUEL @ 8:00**

RIG | BOILER

**WEATHER**

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| NO. | TYPE | | | | |
| SCREENS CHANGED ☐ YES ☐ NO | | | | | |
| TOP | TOP | | | | |
| MIDDLE | MIDDLE | | | | |
| BOTTOM | BOTTOM | | | | |

| WELL NAME & NO. | | YEAR | MONTH | DAY |
|---|---|---|---|---|
| Canadian Forest et al Flett N-61 | | 99 | 10 | 12 |
| OPERATOR | CONTRACTOR | | | |
| Canadian Forest Oil | Akita Drilling LTD | | | |
| RIG MANAGER | | RIG NO. | | |
| Dave Lauck | | 58 | | |
| PROVINCE | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: | | |
| NWT | | 170 | | |

## MORNING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 0800 | 2000 | 12 | 1 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Load Pipe & Drill Collars
Clean up Lease

NOTES

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

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Allan Lickach | 12 | | | |
| DERRICKMAN | | Conrad Antle | 12 | | | |
| MOTORMAN | | Mike Guerin | 12 | | | |
| FLOORMAN | | Adam Murray | 12 | | | |
| FLOORMAN | | Clayton Cameron | 12 | | | |
| LEASEMAN | | Morse Punch | 12 | | | |
| | | Barry Bertrand | 12 | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 0800 | 2000 | 12 | 1 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Load Pipe
Clean up Lease

NOTES

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

**DAY TOUR 08:00 TO**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Ken Cadieux | 12 | | | |
| DERRICKMAN | | Jerry Foley | 12 | | | |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| | | | |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

NOTES

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

**EVENING TOUR** **TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | | | | | |
| DERRICKMAN | | | | | | |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125258

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

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

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

**DAILY CHECKS**

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 10 | 11 |

RIG NO. 58

**FUEL @ 8:00**

RIG | BOILER

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

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125258

BOARD COPY

CAODC

APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

930

# DRILLING CREW PAYROLL DATA

N/

| WELL NAME & NO. | | YEAR | MONTH | DAY |
|---|---|---|---|---|
| Canadian Forest et al Flett N-61 | | 99 | 10 | 11 |
| OPERATOR | CONTRACTOR | | | |
| Canadian Forest Oil | Akita Drilling LTD | | | |
| RIG MANAGER | | RIG NO. | | |
| Dave Lauck | | 58 | | |
| PROVINCE | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: | | |
| NWT | | 1169 | | |

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|
| NO. 1 TYPE Derrick | | | | |
| SCREENS CHANGED ☐ YES ☐ NO | | | | |
| TOP / MIDDLE / BOTTOM | | | | |

8 | 9 | 9 | 24

## MORNING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 07:00 | 19:00 | 12 | 1 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Load melting on Trucks
clean up lease

NOTES

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

**MORNING TOUR 00:00 TO 08:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | ☒ |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Gueen | 12 | | ☒ |
| FLOORMAN | | John Murray | 12 | | JM |
| FLOORMAN | | Clayton Cameron | 12 | | CC |
| LEASEMAN | | Morse Funch | 12 | | MF |
| Lease | | Barry Bertrand | 12 | | BB |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 07:00 | 19:00 | 12 | 1 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Load melting on Trucks
clean up lease

NOTES

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

**DAY TOUR 08:00 TO** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 12 | | ☒ |
| DERRICKMAN | | Jerry Foley | 12 | | ☒ |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| | | | |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

NOTES

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

**EVENING TOUR** — **TO 24:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | | | | |
| DERRICKMAN | | | | | |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125257

| LICENCE NO.: | WELL NAME AND NO.: |
|---|---|
| 1863 | Canadian Forest et al Fleth N-61 |
| **OPERATOR:** | **CONTRACTOR:** |
| Canadian Forest Oil | Akita Drilling LTD |
| **SURFACE LOCATION:** | **UNIQUE ID.:** |
| N&E 6040 - 12330 | 300-NE1-6040 |
| **SIGNATURE OF OPERATOR'S REPRESENTATIVE:** | **SIGNATURE OF CONTRACTOR'S RIG MANAGER:** |
| Craig Darling | Dave Lauck |

**DAILY CHECKS**

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 10 | 10 |

RIG NO. 58

**FUEL @ 8:00**

RIG | BOILER

**WEATHER**

| | |
|---|---|
| TEMPERATURE °C | |
| CURRENT CONDITIONS | |
| WIND DIRECTION | |
| ROAD | |

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1600 | Emsco | 254 |

REVISED MARCH 1996

125257

BOARD COPY

CAODC

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

930

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| Canadian Forest et al Fleth N-61 | 99 | 10 | 10 |
| **OPERATOR** | **CONTRACTOR** | | |
| Canadian Forest Oil | Akita Drilling | | |
| **RIG MANAGER** | **RIG NO.** | | |
| Dave Lauck | 58 | | |
| **PROVINCE** | **RIG SAFETY DAYS:** | | |
| N.W.T. | 1168 | | |

CAMP ☒ YES ☐ NO

## TIME-HRS

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

**TOTALS**

**SHALE SHAKER(S)**

| NO. | TYPE | | MORN. | DAY | EVE. |
|---|---|---|---|---|---|
| 1 | Derrick | Derrick | | | |
| SCREENS CHANGED | ☐ YES ☐ NO | | | | |
| TOP | | TOP | | | |
| MIDDLE | | MIDDLE | | | |
| BOTTOM | | BOTTOM | | | |

**RENTALS/SERVICES**

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

**HOLE CONDITION**

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

## MUD RECORD

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

**DESILTER**

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

**CENTRIFUGE**

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

## MORNING TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 07:00 | 19:00 | 12 | 1 | Load out Matting & Derrick |

NOTES

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

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | ☒ |
| DERRICKMAN | | Conrad Antle | 12 | | ☒ |
| MOTORMAN | | Mike Guerin | 12 | | ☒ |
| FLOORMAN | | Adam Murray | 12 | | ☒ |
| FLOORMAN | | Clayton Cameron | 12 | | ☒ |
| LEASEMAN | | Moise Punch | 12 | | ☒ |
| Lease | | Barry Bertrand | 12 | | ☒ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 07:00 | 19:00 | 12 | 1 | Load out Matting & Pumps |

NOTES

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

**DAY TOUR 08:00 TO**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 12 | | ☒ |
| DERRICKMAN | | Jerry Foley | 12 | | ☒ |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| | | | | |

NOTES

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

**EVENING TOUR TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | | | | |
| DERRICKMAN | | | | | |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125256

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

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

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

**DAILY CHECKS** — OPR. / R.M.

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

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

YEAR 99 | MONTH 10 | DAY 09

RIG NO. 58

**FUEL @ 8:00**

RIG | BOILER

**WEATHER**

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TGOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1600 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125256

BOARD COPY

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 10 | DAY 09

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1167

**TIME-HRS**

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

**TOTALS**

**SHALE SHAKER(S)**

NO. 8 | TYPE: Derrick | Derrick
SCREENS CHANGED ☐ YES ☐ NO
TOP | TOP
MIDDLE | MIDDLE
BOTTOM | BOTTOM

**RENTALS/SERVICES** — MORN. / DAY / EVE.

**MORNING TOUR**

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

PRODUCT | AMOUNT X UNIT

**SOLIDS CONTROL**

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

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

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

## METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 07:00 | | | Lower Derrick & Split w/crane |
| | | | Split Sub & Load on Trucks |
| | 08:00 | 13 | 1 Load Waiting |

NOTES: Held Pre-Tch Safety meeting

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

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

**MORNING TOUR 00:00 TO 08:00**

**INJURIES**

| CREW | SOC. INS. NO. | NAME | HRS | | YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Allan Lickach | 13 | | | |
| DERRICKMAN | | Conrad Antle | 13 | | | |
| MOTORMAN | | Mike Guerin | 13 | | | |
| FLOORMAN | | Adam Murray | 13 | | | |
| FLOORMAN | | Clayton Cameron | 13 | | | |
| LEASEMAN | | Moise Punch | 13 | | | |
| Tesse | | Barry Bertrand | 13 | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**DAY TOUR**

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

PRODUCT | AMOUNT X UNIT

**SOLIDS CONTROL**

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

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

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

## METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 07:00 | | | Tear out Rig |
| | 08:00 | 13 | 1 Load Trucks |

NOTES

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

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

**DAY TOUR 08:00 TO**

**INJURIES**

| CREW | SOC. INS. NO. | NAME | HRS | | YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Ken Cadieux | 13 | | | |
| DERRICKMAN | | Jerry Foley | 13 | | | |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**EVENING TOUR**

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

PRODUCT | AMOUNT X UNIT

**SOLIDS CONTROL**

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

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

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

## METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| | | | |

NOTES

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

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

**EVENING TOUR TO 24:00**

**INJURIES**

| CREW | SOC. INS. NO. | NAME | HRS | | YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | | | | | |
| DERRICKMAN | | | | | | |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125255

LICENCE NO.: 1863
WELL NAME AND NO.: Canadian Forest et al Flett N-61
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: N61-6040-12330
UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE: Wade Lucas
SIGNATURE OF CONTRACTOR'S RIG MANAGER: Wade Lucas

**DAILY CHECKS** — OPR. / R.M.

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

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

YEAR 99 | MONTH 10 | DAY 08
RIG NO. 58
FUEL @ 8:00
RIG | BOILER

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

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125255

BOARD COPY

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

930

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 10 | DAY 08
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
RIG MANAGER: Wade Lucas
RIG NO.: 58
PROVINCE: N.W.T.
CAMP ☒ YES ☐ NO
RIG SAFETY DAYS: 1166

## TIME-HRS

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

TOTALS: 12 | 12

**SHALE SHAKER(S)**

| NO. | TYPE | |
|---|---|---|
| 2 | Derrick | Derrick |
| SCREENS CHANGED | ☐ YES ☐ NO | |
| TOP | | TOP |
| MIDDLE | | MIDDLE |
| BOTTOM | | BOTTOM |

**RENTALS/SERVICES** — MORN. | DAY | EVE.

## DRILLING ASSEMBLY (At End of Tour)

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

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

## MORNING TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Ken Cadieux

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 07:00 | | | | Load mud Tanks & Buildings on Trucks |
| | 19:00 | 12 | 1 | Load Pipe |

NOTES: Held Safety meeting w/Crew, Truckers, Crane operator

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

**MORNING TOUR 00:00 TO 08:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | | YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | | |
| DERRICKMAN | | Conrad Antle | 12 | | | |
| MOTORMAN | | Mike Guerin | 12 | | | |
| FLOORMAN | | Adam Murray | 12 | | | |
| FLOORMAN | | Clayton Cameron | 12 | | | |
| LEASEMAN | | Moose Punch | 12 | | | |
| Lease | | Barry Bertrand | 12 | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

## DAY TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Ken Cadieux

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 07:00 | 19:00 | | | Load out Buildings. |

NOTES

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

**DAY TOUR 08:00 TO** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | | YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Ken Cadieux | 12 | | | |
| DERRICKMAN | | Jerry Foley | 12 | | | |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

## EVENING TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE:

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| | | | | |

NOTES

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

**EVENING TOUR** TO 24:00 — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | | YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | | | | | |
| DERRICKMAN | | | | | | |
| MOTORMAN | | | | | | |
| FLOORMAN | | | | | | |
| FLOORMAN | | | | | | |
| LEASEMAN | | | | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

FOLD HERE →

125254

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-60A0 - 12330 | UNIQUE ID.: 300 - N61-60A0

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

**DAILY CHECKS** (OPR. / R.M.)

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

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

YEAR 49 | MONTH 10 | DAY 07 | RIG NO. 5B

**FUEL @ 8:00** — RIG | BOILER

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

**LAST CASING TUBING OR LINER**

| O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|
| NO. TYPE | | | | |
| 8 Derrick | Derrick | | | |
| SCREENS CHANGED ☐ YES ☐ NO | | | | |
| 8 TOP | TOP | | | |
| MIDDLE | MIDDLE | | | |
| 8 BOTTOM | BOTTOM | | | |
| 24 | | | | |

REVISED MARCH 1996

125254

BOARD COPY

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

930

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 49 | MONTH 10 | DAY 07

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Lauck | RIG NO. 5B

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1165

**DRILLING ASSEMBLY (At End of Tour)**

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

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**MORNING TOUR**

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 07:00 | | | 1 |
| | 20:00 | 13 | 1 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Rig out floor
Repair hydraulic lines twisted in
Full power cords

NOTES: Inspect Derrick Before lowering

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

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 13 | | |
| DERRICKMAN | | Conrad Antle | 13 | | |
| MOTORMAN | | Mike Guerin | 13 | | |
| FLOORMAN | | Adam Murray | 13 | | |
| FLOORMAN | | Clayton Cameron | 13 | | |
| LEASEMAN | | Moise Punch | 13 | | |
| | | Barry Bertrand | 13 | | |
| RIG WATCH | | | | | |

INJURIES

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**DAY TOUR**

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 07:00 | | | 1 |
| | 20:00 | 13 | 1 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Prep to lay down derrick
Lower Derrick unspool Blocks
Pull Power cords

NOTES

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

**DAY TOUR 08:00 TO**

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Gudreux | 13 | | |
| DERRICKMAN | | Jerry Foley | 13 | | |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| | | | | | |
| RIG WATCH | | | | | |

INJURIES

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**EVENING TOUR**

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| | | | |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

NOTES

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

**EVENING TOUR** — **TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | | | | |
| DERRICKMAN | | | | | |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| | | | | | |
| RIG WATCH | | | | | |

INJURIES

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125253

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

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

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

**DAILY CHECKS** — OPR. Initial / R.M. Initial

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

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

YEAR 99 | MONTH 10 | DAY 06

RIG NO. 58

**FUEL @ 8:00** — RIG | BOILER

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

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125253

BOARD COPY

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

930

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N61 | YEAR 99 | MONTH 10 | DAY 06

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: ~~Dan~~ Gary Forth Driller | RIG NO. 58

PROVINCE: N.W.T. | CAMP X YES ☐ NO | RIG SAFETY DAYS: 1764

**TIME-HRS**

| CODE NO. | OPER. | 1 RIG UP & TEAR DOWN | 2 DRILL ACTUAL | 3 REAMING | 4 CORING | 5 COND. MUD & CIRC. | 6 TRIPS | 7 RIG SERVICE | 8 REPAIR RIG | 9 CUT OFF DRILL LINE | 10 DEV. SURVEY | 11 WIRE LINE LOGS | 12 RUN CASE & CEMENT | 13 WAIT ON CEMENT | 14 NIPPLE UP B.O.P. | 15 TEST B.O.P. | 16 DRILL STEM TEST | 17 PLUG BACK | 18 SQUEEZE CEMENT | 19 FISHING | 20 DIR. WORK | 21 SAFETY MTG. | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MORN. | | | | | | | | | | | | | | | | | | | | | | Wireline | Well head | Top Drive | | |
| | DAY | | | | | | | | | | | | | | | | | | | | | | 4½ | 1 | 3½ | | |
| | EVE. | 3 | | | | | | | | | | | | | | | | | | | | | | | 8 | | |
| | TOTAL | 3 | | | | | | | | | | | | | | | | | | | | | | | 2 | | |
| | | | | | | | | | | | | | | | | | | | | | | | 4½ | 1 | 12½ | | |

**TOTALS**: 8 / 8 / 8 / 24

**SHALE SHAKER(S)** — NO. | TYPE: 2 Derrick Derrick

SCREENS CHANGED ☐ YES ☐ NO

| TOP | TOP |
|---|---|
| MIDDLE | MIDDLE |
| BOTTOM | BOTTOM |

**RENTALS/SERVICES** — MORN | DAY | EVE

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

CUTTING STRUCTURE: $T_1$ | $T_2$ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

**HOLE CONDITION**: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

MORNING TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Forth

**TIME LOG** — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | |
|---|---|---|---|---|
| 00.00 | 04:30 | 4½ | 22 | R.I.H. with the Running Tool, P.O.H. Run IN with recorders. Rig out Wireline, Rig out Testers. |
| 04:30 | 05:30 | 1 | 23 | Put Flanges and plugs on Well Head. |
| 05:30 | 08:00 | 2½ | 24 | Rig out Top Drive. |
| 08:00 | | | | Rig Released |

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor. Boiler Blown Down 3 Times. Held Watchdog meeting

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | Fuel Transfer | |

**MORNING TOUR 00:00 TO 08:00**

INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | |
| DERRICKMAN | | Mike Watrich | 8 | | |
| MOTORMAN | | Wendell Bethel | 8 | | |
| FLOORMAN | | Tim Byers | 8 | | |
| FLOORMAN | | James Morton | 8 | | |
| LEASEMAN | | Jesse Lessard | 8 | | |
| Lease | | Jason Villeneuve | 8 | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE:

**TIME LOG** — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | |
|---|---|---|---|---|
| 16:00 | 16:00 | 8 | 24 | RIG OUT TOP DRIVE |

NOTES: √ Crown Saver Fastline Clamp Deadline Anchor. Boiler Blown Down 4 Times

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

**DAY TOUR 08:00 TO 20:00**

INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 14 | | |
| DERRICKMAN | | Conrad Antle | 14 | | |
| MOTORMAN | | Mike Guerin | 14 | | |
| FLOORMAN | | Adam Murray | 14 | | |
| FLOORMAN | | Clayton Cameron | 14 | | |
| LEASEMAN | | Mouse Punch | 14 | | |
| Lease | | Barry Bertrand | 14 | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE:

**TIME LOG** — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | |
|---|---|---|---|---|
| 16:00 | 18:00 | 2 | 24 | RIG OUT TOP DRIVE |
| 18:00 | 21:00 | 3 | 1 | Rig out Floor, Bridle up |

NOTES: Boiler Shut in @ 21:00 hrs. Boiler Blown Down 4 Times

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 5 | | | | | |

**EVENING TOUR** TO 24:00

INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | |
| DERRICKMAN | | Jerry Foley | 8 | | |
| MOTORMAN | | | | | |
| FLOORMAN | | | | | |
| FLOORMAN | | | | | |
| LEASEMAN | | | | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125252

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

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

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

**DAILY CHECKS** (OPR. / R.M.)

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

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 10 | 05 |

RIG NO. 58

**FUEL @ 8:00**

RIG 72 | BOILER

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

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | EMSCO | 254 |
| | | | | | | | F-1000 | EMSCO | 254 |

REVISED MARCH 1996

125252

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

NV

WELL NAME & NO.: Canadian Forest etal Flett N61 | YEAR 99 | MONTH 10 | DAY 05

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Gary Forth | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1763

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | | | | | | | | | | | | | | | | | Wireline 8 | | | |
| DAY | | | | | | | | | | | 6½ | | | | | | | | | | | 1½ | | | |
| EVE. | | | | | | | | | | | | | | | | | | | | | | 8 | | | |
| TOTAL | | | | | | | | | | | 6½ | | | | | | | | | | | 17½ | | | |

**TOTALS**: 8 | 8 | 8 | 24

**SHALE SHAKER(S)**: NO. / TYPE: 1 Derrick, Derrick; SCREENS CHANGED ☐ YES ☐ NO; TOP / MIDDLE / BOTTOM

**RENTALS/SERVICES**: TMJ-172113; AMJ-8712

| | MORN | DAY | EVE |
|---|---|---|---|
| | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

**HOLE CONDITION**: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

## MUD RECORD

**MUD TYPE** ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**: PRODUCT | AMOUNT X UNIT

**SOLIDS CONTROL**

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

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

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

**MORNING TOUR**

## METRES DRILLED

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

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

152 | 152

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**: Gary Patrick

## TIME LOG

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

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Repair PND Tool - R.I.H. and log. Pump 8 m³ of Water Down Hole. Run in and log.

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor. Boiler Blown Down 4 Times

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | | |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | WB |
| FLOORMAN | | Tim Byers | 8 | | TB |
| FLOORMAN | | James Morton | 8 | | JM |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| Lease | | Jason Villeneuve | 8 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

**HOLE CONDITION**: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

## MUD RECORD

**MUD TYPE** ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**: PRODUCT | AMOUNT X UNIT

**SOLIDS CONTROL**

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

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

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

**DAY TOUR**

## METRES DRILLED

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

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

152 | 152

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**: Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 0800 | 14:30 | 6½ | 11 |
| 14:30 | 16:00 | 1½ | 22 |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RUN PND LOG w/computalog
Rig Out Computalog, Rig In Bonnett

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor. Boiler Blown Down 4 Times

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11 | 325 | | | |

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | AL |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Guerin | 12 | | MG |
| FLOORMAN | | Adam Murray | 12 | | AM |
| FLOORMAN | | Clayton Cameron | 12 | | CC |
| LEASEMAN | | Moise Punch | 12 | | MP |
| Lease | | Barry Bertrand | 12 | | BB |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

**HOLE CONDITION**: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

## MUD RECORD

**MUD TYPE** ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**: PRODUCT | AMOUNT X UNIT

**SOLIDS CONTROL**

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

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

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

**EVENING TOUR**

## METRES DRILLED

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

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

152 | 152

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**: Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 17:00 | 1 | 22 |
| 17:00 | 20:45 | 3¾ | 22 |
| 20:45 | 24:00 | 3¼ | 22 |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

RIG IN Wireline Static Gradient
RIH w/Static Gradient
RIH w/Recorders. Could get past Safety Valve Run Ring gauge

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor. Boiler Blown Down 4 Times, Held environmental meeting.

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 330 | | Fluid Celation. | |

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bethel | 4 | | WB |
| FLOORMAN | | Tim Byers | 4 | | TB |
| FLOORMAN | | James Morton | 4 | | JM |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| Lease | | Jason Villeneuve | 4 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

125251

FOLD HERE →

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12320 | UNIQUE ID.: 300-N61-6040

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

**DAILY CHECKS** — OPR. / R.M.

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

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 10 | 04 |

RIG NO. 58

**FUEL @ 8:00**

RIG .95 | BOILER

**WEATHER**

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125251

BOARD COPY

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N61 | YEAR 99 | MONTH 10 | DAY 04

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Gary Forth | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1162

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | | | | | | | | | | | | | | | | | ½ | Coil Tubing | Wireline | |
| DAY | | | | | | | | | | | | | | | | | | | | | | 1½ | 6½ | | |
| EVE. | | | | | | | | | | | | | | | | | | | | | | ¼ | 7¾ | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | 2¼ | 8 | | |

**TOTALS**

| SHALE SHAKER(S) NO. | TYPE | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| 8 | Derrick | Derrick TmJ-172113 | | | |
| 8 | SCREENS CHANGED ☐ YES ☐ NO | AmJ-8712 | | | |
| 8 | TOP / TOP | | | | |
| 8 | MIDDLE / MIDDLE | | | | |
| 24 | BOTTOM / BOTTOM | | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

## METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 01:30 | 1½ | 22 | P.O.H., Rig out Coil Tubing. |
| 01:30 | 08:00 | 6½ | 23 | Rig up Wireline, Run in with gauge Ring, P.O.H., Rig to perforate. |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor
Boiler Blown Down 5 Times

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 310 | | | |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | WB |
| FLOORMAN | | Tim Byers | 8 | | TB |
| FLOORMAN | | James Morton | 8 | | JM |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| Lease | | Jason Villeneuve | 8 | | JV |
| RIG WATCH | | | | | |

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

---

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

## METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE:

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 08:45 | ¾ | 23 | Rig to perforate |
| 08:45 | 09:00 | ¼ | 21 | Pre job Safety meeting |
| 09:00 | 11:30 | 2½ | 23 | RIH w/perforating Gun |
| 11:30 | 16:00 | 4½ | 23 | POOH w/perf Gun, Lay Down |
| 16:00 | | | | Wait on Logging Tools |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor
Boiler Blown Down 4 Times

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | | |

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | AL |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Guerin | 12 | | MG |
| FLOORMAN | | Adam Murray | 12 | | AM |
| FLOORMAN | | Clayton Cameron | 12 | | CC |
| LEASEMAN | | Mose Punch | 12 | | MP |
| Lease | | Barry Bertrand | 12 | | BB |
| RIG WATCH | | | | | |

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

---

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

## METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 20:00 | 4 | 23 | Wait on Logging Tools |
| 20:00 | 24:00 | 4 | 23 | Rig to R.I.H. and Log. P.O.H. Tool problems. |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.
Boiler Blown Down 4 Times

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 310 | | Rigging out | |

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bethel | 4 | | WB |
| FLOORMAN | | Tim Byers | 4 | | TB |
| FLOORMAN | | James Morton | 4 | | JM |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| Lease | | Jason Villeneuve | 4 | | JV |
| RIG WATCH | | | | | |

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

FOLD HERE →

125250

REVISED MARCH 1996

125250

BOARD COPY

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

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

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

**DAILY CHECKS** (OPR. / R.M.)

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

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

YEAR 99 | MONTH 10 | DAY 03

RIG NO. 58

**FUEL @ 8:00**

RIG 1.10 | BOILER

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

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

**TIME-HRS**

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

**TOTALS**

| | | |
|---|---|---|
| 8 | | |
| 8 | | |
| 8 | | |
| 24 | | |

**SHALE SHAKER(S)**

| NO. | TYPE | |
|---|---|---|
| 2 | Derrick | Derrick |

SCREENS CHANGED ☐ YES ☐ NO

| TOP | TOP |
|---|---|
| MIDDLE | MIDDLE |
| BOTTOM | BOTTOM |

**RENTALS/SERVICES**

| | MO | RN | DAY | EVE |
|---|---|---|---|---|
| T mJ - 172097 | | | | |
| A mJ - 8696 | | | | |

**MORNING TOUR**

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 06:00 | 6 | 22 | P.O.H. w/ Perf Guns. Guns misfired. Inspect Guns & R.I.H. To Perforate |
| | | | | Fire Guns, P.O.H., Rig out Wireline. |
| 06:00 | 08:00 | 2 | 23 | Rig up Endless Tubing unit. |

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor. Boiler Blown Down 5 Times

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 310 | | | |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | |
| DERRICKMAN | | Mike Watrich | 8 | | |
| MOTORMAN | | Wendell Bethel | 8 | | |
| FLOORMAN | | Tim Byers | 8 | | |
| FLOORMAN | | James Morton | 8 | | |
| LEASEMAN | | Jesse Lessard | 8 | | |
| Lease | | Jason Villeneuve | 8 | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**DAY TOUR**

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 08:15 | 1/4 | 21 | Hold Safety meeting for Acid Job |
| 08:15 | 16:00 | 7 3/4 | 23 | Do Acid Job w/Coil Tubing |

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor. Boiler Blown Down 4 Times

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | Pumping Acid | |

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | |
| DERRICKMAN | | Conrad Antle | 12 | | |
| MOTORMAN | | Mike Guerin | 12 | | |
| FLOORMAN | | Adam Murray | 12 | | |
| FLOORMAN | | Clayton Cameron | 12 | | |
| LEASEMAN | | Moise Punch | 12 | | |
| Lease | | Barry Borland | 12 | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**EVENING TOUR**

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 24:00 | 8 | 23 | Do Acid Job w/Coil Tubing |

NOTES: √ Crown Saver Fastline Clamp. Deadline Anchor. Boiler Blown down 4 Times

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 300 | | | |

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | |
| DERRICKMAN | | Mike Watrich | 4 | | |
| MOTORMAN | | Wendell Bethel | 4 | | |
| FLOORMAN | | Tim Byers | 4 | | |
| FLOORMAN | | James Morton | 4 | | |
| LEASEMAN | | Jesse Lessard | 4 | | |
| Lease | | Jason Villeneuve | 4 | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125249

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

**DAILY CHECKS** (OPR. / R.M.)

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

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 10 | 02 |

RIG NO. 58

**FUEL @ 8:00**

RIG 432 | BOILER

**WEATHER**

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125249

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

IV

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| Canadian Forest etal Flett N61 | 99 | 10 | 02 |
| OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD | | |
| RIG MANAGER: Gary Forth | RIG NO.: 58 | | |
| PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1160 | |

**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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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. | | | | | | | | | | | | | | | | | | | | | Wireline | | | | | | 8 |
| DAY | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| EVE. | | | | | | | | | | | | | | | | | | | | | | | | | | | 8 |
| TOTAL | | | | | | | | | | | | | | | | | | | | | ¼ | 7¾ | | | | | 24 |
| | | | | | | | | | | | | | | | | | | | | | ¼ | 23¾ | | | | | |

**SHALE SHAKER(S)**

NO. / TYPE: 2 Derrick Derrick
SCREENS CHANGED ☐ YES ☐ NO
TOP / TOP
MIDDLE / MIDDLE
BOTTOM / BOTTOM

**RENTALS/SERVICES**

TMJ-172084
MJ-8683

| | MORN. | DAY | EVE. |
|---|---|---|---|
| | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

CUTTING STRUCTURE: $T_1$ | $T_2$ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**MORNING TOUR**

## METRES DRILLED

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

CIRCULATION PRESSURE (kPa)

| PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|
| 114 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**

Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 08:00 | 8 | 22 |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

R.I.H. w/Wireline & BALE

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.
Boiler Blown Down 4 Times, √ Fire extinguisher in Camp.

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | | |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | WB |
| FLOORMAN | | Tim Byers | 8 | | TB |
| FLOORMAN | | James Morton | 8 | | JM |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| Lease | | Jason Villeneuve | 8 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**DAY TOUR**

## METRES DRILLED

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

CIRCULATION PRESSURE (kPa)

| PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|
| 114 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**

Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 11:30 | 3½ | 22 |
| 11:30 | 16:00 | 4½ | 12 |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Rate with Wireline & Rig out Wireline
Wait on Computalog Wireline Truck

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor
Boiler Blown Down 4 Times

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | | |

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | AL |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Guerin | 12 | | MG |
| FLOORMAN | | Adam Murray | 12 | | AM |
| FLOORMAN | | Clyden Cameron | 12 | | CC |
| LEASEMAN | | Moise Punch | 12 | | MP |
| Lease | | Barry Bertrand | 12 | | BB |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**EVENING TOUR**

## METRES DRILLED

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

CIRCULATION PRESSURE (kPa)

| PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|
| 114 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**

Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 17:45 | 1¾ | 22 |
| 17:45 | 20:30 | 2½ | 22 |
| 20:30 | 20:45 | ¼ | 21 |
| 20:45 | 24:00 | 3¼ | 22 |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Wait for Computalog Wireline Truck
Rig in Computalog, Rig For PerForating
Held Safety meeting.
Run in And PerForate.

NOTES: Held Camp Fire Drill, Boiler Blown down 4 Times
√Crown Saver, Fastline Clamp, Deadline Anchor

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 300 | | PerForating | |

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bethel | 4 | | WB |
| FLOORMAN | | Tim Byers | 4 | | TB |
| FLOORMAN | | James Morton | 4 | | JM |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| Lease | | Jason Villeneuve | 4 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125248

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

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

YEAR 99 | MONTH 10 | DAY 01
RIG NO. 58
**FUEL @ 8:00**
RIG 1.49 | BOILER

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

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125248

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N61 | YEAR 99 | MONTH 10 | DAY 01
OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD
RIG MANAGER: Gary Farth | RIG NO. 58
PROVINCE: N.W.T. | CAMP X YES ☐ NO | RIG SAFETY DAYS: 1129

**TIME-HRS**

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

TOTALS: 24

**SHALE SHAKER(S)**

| NO. | TYPE | | MORN | DAY | EVE |
|---|---|---|---|---|---|
| 2 | Derrick | Derrick | | | |
| SCREENS CHANGED | ☐ YES ☐ NO | | | | |
| TOP | | TOP | | | |
| MIDDLE | | MIDDLE | | | |
| BOTTOM | | BOTTOM | | | |

**RENTALS/SERVICES**
TMJ - 172078
AMJ - 8677

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

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

## MUD RECORD

**MUD TYPE** ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

MORNING TOUR

## METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**: Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 08:00 | 22 | Shut IN Well & Record pressures. |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.
Bop's B/O 4 x 2 min

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | | |

**MORNING TOUR 00:00 TO 08:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | WB |
| FLOORMAN | | Tim Byers | 8 | | TB |
| FLOORMAN | | James Morton | 8 | | JM |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| Lease | | Jason Villeneuve | 8 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

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

## MUD RECORD

**MUD TYPE** ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Soda Ash | 25x |

**SOLIDS CONTROL**

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

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

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

DAY TOUR

## METRES DRILLED

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**: Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 8:00 | 9:00 | 1 | 22 Shut IN & Record Pressures |
| 9:00 | 13:30 | 4½ | 23 Rig W Wireline & Run Junk Basket |
| 13:30 | 16:00 | 2½ | 23 Rig up Static Gradient and Run IN |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

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

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | | |

**DAY TOUR 08:00 TO 20:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | AL |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Guerin | 12 | | MG |
| FLOORMAN | | Adam Murray | 12 | | AM |
| FLOORMAN | | Clayton Cameron | 12 | | CC |
| LEASEMAN | | Moise Punch | 12 | | MP |
| Lease | | Barry Bertrand | 12 | | BB |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

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

## MUD RECORD

**MUD TYPE** ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

EVENING TOUR

## METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**: Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 24:00 | 8 | 23 Run Wireline Static Gradient. Change out To Braided Line. RUN IN & Bale |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.
√Fire Extinguishers, Boiler Blown Down 4 Times

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | | |

**EVENING TOUR 20:00 TO 24:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bethel | 4 | | WB |
| FLOORMAN | | Tim Byers | 4 | | TB |
| FLOORMAN | | James Morton | 4 | | JM |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| Lease | | Jason Villeneuve | 4 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

FOLD HERE →

125247

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

**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 Licensee & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 30 |

RIG NO. 58

**FUEL @ 8:00**

RIG 470 | BOILER

**WEATHER**

| | |
|---|---|
| TEMPERATURE °C | |
| CURRENT CONDITIONS | Snowing |
| WIND DIRECTION | |
| ROAD | |

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125247

BOARD COPY

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| Canadian Forest et al Flett N61 | 99 | 09 | 30 |
| OPERATOR: Canadian Forest Oil | CONTRACTOR: AKITA Drilling LTD | | |
| RIG MANAGER: Gary Forth | RIG NO. 58 | | |
| PROVINCE: N.W.T. | CAMP ✓ YES ☐ NO | RIG SAFETY DAYS: 1158 | |

**TIME-HRS**

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

**TOTALS**

| HRS | SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|---|
| 8 | NO. OR | TYPE: Derrick | TMJ-172066 | | | |
| 8 | SCREENS CHANGED ☑ YES ☐ NO | | AMJ-8665 | | | |
| 8 | TOP | TOP | | | | |
| 8 | MIDDLE | MIDDLE | | | | |
| 24 | BOTTOM | BOTTOM | | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

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

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

## METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 03:00 | 3 | 22 | Run Wire line Static Gradient |
| 0 | | | | Rig out Wireline Truck. |
| 03:00 | 05:15 | 2 1/4 | 23 | Rig up Coil Tubing unit. |
| 05:15 | 05:30 | 1/4 | 21 | Safety meeting |
| 05:30 | 08:00 | 2 1/2 | 23 | Do Acid Job w/ Coil Tubing |

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor. Boiler Blown Down 4 Times.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| B 11.0 | | 320 | | Acid Job | |

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | ✓ |
| DERRICKMAN | | Mike Watrich | 8 | | ✓ |
| MOTORMAN | | Wendell Bethel | 8 | | ✓ |
| FLOORMAN | | Tim Byers | 8 | | ✓ |
| FLOORMAN | | James Morton | 8 | | ✓ |
| LEASEMAN | | Jesse Lessard | 8 | | ✓ |
| Lease | | Jason Villeneuve | 8 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

MORNING TOUR

---

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

(same layout as above)

METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

REDUCED PUMP SPEED — @ @

DEVIATION SURVEY

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 16:00 | 8 | 23 | Do Acid Job w/Coil Tubing |
| 16:00 | | | 23 | Move Coil Unit, Pipe Trailer, Derrick Jacks |

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor. Boiler Blown Down 4 Times

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| B | | 320 | | | |

DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | ✓ |
| DERRICKMAN | | Conrad Antle | 12 | | ✓ |
| MOTORMAN | | Mike Guerin | 12 | | ✓ |
| FLOORMAN | | Adam Murray | 12 | | ✓ |
| FLOORMAN | | Clayton Cameron | 12 | | ✓ |
| LEASEMAN | | Moise Punch | 12 | | ✓ |
| Lease | | Barry Bertrand | 12 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

---

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

(same layout as above)

METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

REDUCED PUMP SPEED — @ @

DEVIATION SURVEY

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 18:00 | 2 | 23 | Do Acid Job w/Coil Tubing |
| 18:00 | 20:00 | 2 | 23 | Rig out Coil Injector off Floor |
| 20:00 | 24:00 | 4 | 24 | SHUT IN WELL Record Pressures |

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

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | 11.0 | 320 | | | |

EVENING TOUR TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | ✓ |
| DERRICKMAN | | Mike Watrich | 4 | | ✓ |
| MOTORMAN | | Wendell Bethel | 4 | | ✓ |
| FLOORMAN | | Tim Byers | 4 | | ✓ |
| FLOORMAN | | James Morton | 4 | | ✓ |
| LEASEMAN | | Jesse Lessard | 4 | | ✓ |
| Lease | | Jason Villeneuve | 4 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

FOLD HERE →

125246

REVISED MARCH 1996

125246

BOARD COPY

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

LICENCE NO.: 1963 | WELL NAME AND NO.: CDN Forest Etal Flett N61

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

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

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

**DAILY CHECKS** (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) H2S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines
(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

YEAR | MONTH | DAY | RIG NO.

FUEL @ 8:00

RIG | BOILER

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

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN. | DAY | EVE. |
|---|---|---|---|---|---|
| NO. 8 | TYPE | TmJ-172054 | | | |
| SCREENS CHANGED ☐ YES ☐ NO | | 4 mJ-8653 | | | |
| TOP 8 | TOP | | | | |
| MIDDLE 8 | MIDDLE | | | | |
| BOTTOM 24 | BOTTOM | | | | |

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR: 99 | MONTH: 09 | DAY: 29

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

RIG MANAGER: Gary Forth | RIG NO.: 56

PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 157

## MORNING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 08:00 | 8 | 22 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Work w/ Dowell Schlumberger Coil Tubing Unit

NOTES: √deadline anchor, fastline clamp

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

10

**MORNING TOUR 00:00 TO 08:00**

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) 114, S.P.M. | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M.

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 14:15 | 6¼ | 22 |
| 14:15 | 15:00 | ¾ | 22 |
| 15:00 | 16:00 | 1 | 23 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Work with Coil Tubing. Wait on Acid & Nitrogen.
RIG OUT Coil Tubing unit.
Wait on Wire line Truck

NOTES: √Crown Saver, Fastline Clamp Deadline Anchor.

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

0

**DAY TOUR 08:00 TO 16:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | |
| DERRICKMAN | | Mike Watrich | 8 | | |
| MOTORMAN | | Wendell Bethel | 8 | | |
| FLOORMAN | | Tim Byers | 8 | | |
| FLOORMAN | | James Morton | 8 | | |
| LEASEMAN | | Jason Villeneuve | 8 | | |
| Lease | | Jesse Lessard | 8 | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa) | PUMP NO. 1: LINER SIZE (mm) 114, S.P.M. | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M.

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 16:45 | ¾ | 23 |
| 16:45 | 19:45 | 3 | |
| 19:45 | 22:00 | 2¼ | |
| 22:00 | 24:00 | 2 | |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Wait on Wire line Truck
RIG IN WIRE LINE Pressure Test lubricator
Run Wire line junk Basket.
Run wire line static gradient

NOTES: Started Boiler @ 16:00 hrs. Burned 1.5 x 2 Wood
√Crown Saver Fastline Clamp Deadline Anchor

BOILER: HRS. RAN 8 | ph 11 | STACK TEMP. 345 | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P.

**EVENING TOUR 16:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | |
| DERRICKMAN | | Conrad Antle | 8 | | |
| MOTORMAN | | Mike Guerin | 8 | | |
| FLOORMAN | | Adam Murray | 8 | | |
| FLOORMAN | | Clayton Cameron | 8 | | |
| LEASEMAN | | Moise Punch | 8 | | |
| Lease | | Barry Bertrand | 8 | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125245

| LICENCE NO.: | WELL NAME AND NO.: |
|---|---|
| 1863 | CDN Forest Etal Flett N61 |
| OPERATOR: | CONTRACTOR: |
| Canadian Forest Oil | AKita Drilling LTD. |
| SURFACE LOCATION: | UNIQUE ID.: |
| N61-6040-122330 | 300-N61-6040 |
| SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: |

**DAILY CHECKS** — OPR. / R.M.

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 28 |

RIG NO. 58

**FUEL @ 8:00**

RIG 62 | BOILER

**WEATHER**

| | |
|---|---|
| TEMPERATURE | °C |
| CURRENT CONDITIONS | |
| WIND DIRECTION | |
| ROAD | |

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

REVISED MARCH 1996

125245

BOARD COPY

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| CDN Forest Etal Flett N61 | 99 | 09 | 28 |
| OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD. | | |
| RIG MANAGER: Gary Forth | RIG NO.: 58 | | |
| PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1156 | |

**TIME-HRS**

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

**TOTALS**

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | | | | | |

**SHALE SHAKER(S)**

| NO. | TYPE |
|---|---|
| | |

SCREENS CHANGED ☐ YES ☐ NO

| TOP | TOP |
|---|---|
| MIDDLE | MIDDLE |
| BOTTOM | BOTTOM |

**RENTALS/SERVICES**

| | MORN. | DAY | EVE. |
|---|---|---|---|
| | | | |

## DAY TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

| | @ | | @ |
|---|---|---|---|
| | | | |

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 02:00 | 2 | 22 | P.O.H W/Plug/Work stuck plug through sub surface safety valve. |
| 02:00 | 06:00 | 4 | 22 | Make up Wire grab & R.I.H same P.O.H W/Wire grab (Rig out Bonnet & Computalog. |
| 06:00 | 08:00 | 2 | 23 | Rig in Dowell Schlumberger coil Tubing unit. |

NOTES ✓ Deadline Anchor, Fastline clamps Held Environmental Meeting W/crew

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

**MORNING TOUR 00:00 TO 08:00**

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

| | @ | | @ |
|---|---|---|---|
| | | | |

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 11:45 | 3 3/4 | 23 | Rig in Coil Tubing unit. |
| 11:45 | 13:00 | 1/4 | 21 | Held Safety meeting. |
| 13:00 | 16:00 | 4 | 23 | RUN in With Coil Tubing. Unload Hole w/Nitrogen |

NOTES ✓ Crown Saver. Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | | | | Running Coil Tubing | |

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | | GP |
| DERRICKMAN | | Mike Wotrich | 12 | | | MW |
| MOTORMAN | | Wendell Bettker | 12 | | | WB |
| FLOORMAN | | Tim Byers | 12 | | | TB |
| FLOORMAN | | James Morton | 12 | | | JM |
| LEASEMAN | | Jesse Lessard | 12 | | | JL |
| Lease | | Jason Villeneuve | 12 | | | JV |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**

| | @ | | @ |
|---|---|---|---|
| | | | |

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:06 | 24:00 | 8 | 23 | RUN IN with Coil Tubing. Unload Hole with Nitrogen |

NOTES ✓ Deadline Anchor, Fastline clamp

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

**EVENING TOUR TO 24:00**

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

125244

FOLD HERE →

LICENCE NO.: 1963
WELL NAME AND NO.: CDN Forest Etal Flett N61
OPERATOR: Canadian Forest Oil
CONTRACTOR: AKita Drilling LTD.
SURFACE LOCATION: N61-6040-12330
UNIQUE ID.: 300-N61-16040
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) HS Signs Posted (if required) — Initial / Initial
(4) Well License & Sick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

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

YEAR 99 | MONTH 09 | DAY 27
RIG NO. 58
**FUEL @ 8:00** — RIG 62 | BOILER

**WEATHER**
TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

**LAST CASING TUBING OR LINER**

| O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| DC/OP. 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 354 |
| | | | | | | | F-1000 | Emsco | 354 |

REVISED MARCH 1996

APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125244

BOARD COPY

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR 99 | MONTH 09 | DAY 27
OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.
RIG MANAGER: Gary Forth | RIG NO. 58
PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1155

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) | MORN. | DAY | EVE. |
|---|---|---|---|
| NO. | 4 | 4 | 4 |
| SCREENS CHANGED ☐ YES ☐ NO | | | |
| TOP | | | |
| MIDDLE | | | |
| BOTTOM | | | |

RENTALS/SERVICES

## MORNING TOUR

### DRILLING ASSEMBLY (At End of Tour)

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

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

### BIT RECORD

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

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

### HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

### MUD RECORD

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

### METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Ron Cadieux

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 08:00 | 8 | 22 | P.O.H w/Wire grab, R.I.H w/Impression block<br>P.O.H w/Impression block, R.I.H w/Bailer #2<br>P.O.H w/Bailer & clean, R.I.H w/Bailer #3<br>P.O.H w/Bailer & clean, R.I.H w/Bailer #4<br>P.O.H. w/Bailer & clean. |

NOTES: √ deadline anchor, fastline clamp. Held Watchdog meeting w/crew

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

### MORNING TOUR 00:00 TO 08:00

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

### DRILLING ASSEMBLY (At End of Tour)

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

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

### BIT RECORD

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

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

### HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

### MUD RECORD

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

### METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 152 | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 16:00 | 8 | 22 | R.I.H. w/Bailer #5, P.O.H. w/Bailer & clean<br>R.I.H. w/Bailer #6, P.O.H. ~~w/Bailer & clean~~<br>Lost Bailer, Change out over shot.<br>R.I.H. w/overshot, P.O.H. w/Bailer & clean<br>R.I.H. w/Bailer #7, P.O.H. w/Bailer & clean<br>R.I.H. w/Impression Block, P.O.H.<br>R.I.H. w/Pulling Tool, P.O.H. w/Prong<br>R.I.H. w/Ball |

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

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | | | | H2S Drills | |

### DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Tim Byers | 12 | | TB |
| FLOORMAN | | James Morton | 12 | | JM |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| Lease | | Jason Villeneuve | 12 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

### DRILLING ASSEMBLY (At End of Tour)

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

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

### BIT RECORD

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

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

### HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

### MUD RECORD

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

### METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Ron Cadieux

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | | | 22 | R.I.H. & Bail<br>R.I.H. w/Pulling Tool, P.O.H. No Plug<br>Change out Slickline Rig up wireline<br>Press Test lub. R.I.H w/ Overshot ~~Fishman~~<br>~~Plug~~ Pull out Bypass wireline<br>Pull out of hole w/Plug |
| | 24:00 | 8 | | |

NOTES: √ Deadline anchor, fastline clamp. Visually Inspect Brake linkage Repair Grease fittings on Mousehole

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

### EVENING TOUR 20:00 TO 24:00

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125243

REVISED MARCH 1996

125243

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| LICENCE NO.: | WELL NAME AND NO.: |
|---|---|
| 1863 | CDN Forest Etal Flett N61 |
| OPERATOR: | CONTRACTOR: |
| Canadian Forest Oil | AKita Drilling LTD. |
| SURFACE LOCATION: | UNIQUE ID.: |
| N61-6040-17330 | 300-N61-106040 |
| SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: |

**DAILY CHECKS** (OPR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Flarelines & Degasser Lines.
(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 26 |

RIG NO.: 58

**FUEL @ 8:00**

RIG | BOILER

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

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 354 |
| | | | | | | | F-1000 | Emsco | 354 |

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | | | | | | | | | | 5 | | | | | | | Install well head | Wire Line | Run in Testers | Test Well Head | Slick Line |
| DAY | | | | | | | | | | | | | | | | | | | | | | 5 | | 3 | 2 | 3¼ |
| EVE | | | | | | | | | | | | | | | | | | | | | | | 2¾ | | 2 | 3¼ |
| TOTAL | | | | | | | | | | | | | | | 5 | | | | | | | 8 | 2¾ | 3 | 2 | 3¼ |

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN. | DAY | EVE. |
|---|---|---|---|---|---|
| NO. | TYPE | | | | |
| 4 | Derrick | | | | |
| 8 | SCREENS CHANGED ☐ YES ☐ NO | | | | |
| 8 | TOP / TOP | | | | |
| 8 | MIDDLE / MIDDLE | | | | |
| 24 | BOTTOM / BOTTOM | | | | |

**WELL NAME & NO.**: CDN Forest Etal Flett N-61 — YEAR: 99 — MONTH: 09 — DAY: 26

**OPERATOR**: Canadian Forest Oil — **CONTRACTOR**: AKita Drilling LTD.

**RIG MANAGER**: Gary Forth — **RIG NO.**: 58

**PROVINCE**: N.W.T. — CAMP ☑ YES ☐ NO — **RIG SAFETY DAYS**: 1154

## MORNING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 05:00 | 5 | 14 | Nipple down BOP. |
| 05:00 | 08:00 | 3 | 22 | Install well head |

NOTES: √ Deadline anchor, fast line clamp

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

**MORNING TOUR 00:00 TO 08:00** — INJURIES

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

## DAY TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

**METRES DRILLED**

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 114 | |

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**: Gary Forth

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 13:00 | 5 | 22 | Install well head, pressure Test same. |
| 13:00 | 16:00 | 3 | 24 | Hook up Testers To well head. |

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

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

**DAY TOUR 08:00 TO 20:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Tim Byers | 12 | | TB |
| FLOORMAN | | James Morton | 12 | | JM |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| Lease | | Jason Villeneuve | 12 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

## EVENING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

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

**BIT RECORD**

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

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

**HOLE CONDITION**: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

**METRES DRILLED**

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

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

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 17:45 | 1¾ | 35 | Pressure Test Well Head & Test Lines, |
| 17:45 | 20:30 | 2¾ | 23 | Rig up lubricator and Wireline Truck. |
| 20:30 | 20:45 | ¼ | 25 | Press. Test Completion Equipment 21 MPA |
| 20:45 | | | 26 | R.I.H W/ over shot attempt to latch plug |
| | 24:00 | 3¼ | | P.O.H W/ over shot, R.I.H W/ wire grab |

NOTES: √ deadline anchor, crown saver, fastline clamp

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

**EVENING TOUR 20:00 TO 24:00** — INJURIES

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT — CREW SAFETY DAYS

FOLD HERE →

125242

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

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

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

YEAR 99 | MONTH 09 | DAY 25
RIG NO. 58
**FUEL @ 8:00**
RIG 95 | BOILER

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

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 354 |
| | | | | | | | F-1000 | Emsco | 354 |

REVISED MARCH 1996

125242

BOARD COPY

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N61 | YEAR 99 | MONTH 09 | DAY 25
OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.
RIG MANAGER: Gary Forth | RIG NO. 58
PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1153

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN. | DAY | EVE. |
|---|---|---|---|---|---|
| NO. | TYPE | | | | |
| 8 | Derrick | TMT #616 | | | |
| 8 | SCREENS CHANGED ☐ YES ☐ NO | AMT 172017 | | | |
| 8 | TOP / TOP | | | | |
| 8 | MIDDLE / MIDDLE | | | | |
| 24 | BOTTOM / BOTTOM | Acc Oil 39 | | | |

**DRILLING ASSEMBLY (At End of Tour)**

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

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

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**MORNING TOUR**

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.
114 | 114

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Ron Cad

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | | 5 | |
| | 02:00 | 2 | |
| 02:00 | 03:15 | 1 1/4 | 20 |
| 03:15 | 08:00 | 5 3/4 | 23 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Displace hole to inhibited water through reverse circulation
locate into seal bore, latch
Wait on Thermal stretch

NOTES: √ Crown saver, deadline anchor, fastline clamp

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

**MORNING TOUR 00:00 TO 08:00**

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**DAY TOUR**

**DRILLING ASSEMBLY (At End of Tour)**

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

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

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**DAY TOUR**

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.
114 | 114

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 13:00 | 5 | 23 |
| 13:00 | 16:00 | 3 | 24 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Wait on Thermal stretch.
Check Free Travel, unscrew OFF Latch Assem
Pull up and install sub surface safety valve, ~~pressure~~ install Control line and Surface Test same. Run in and Space out.

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

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

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Tim Byers | 12 | | TB |
| FLOORMAN | | James Morton | 12 | | JM |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| Lease | | Jason Villeneuve | 12 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**EVENING TOUR**

**DRILLING ASSEMBLY (At End of Tour)**

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

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

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**EVENING TOUR**

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.
114 | 114

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE:

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | | 24 | |
| | 23:00 | 7 | |
| 23:00 | 24:00 | 1 | 25 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Run in and space out, ~~tag bagger~~
Install dog nut, land dog nut in well head, Pull to check anchor seal assembly
Anchor not latched, Pull up to latch anchor, Run in. Press test Annulus to 21 MPA. Pull up to check anchor. Pull 15000 daN over pull. Anchor latched and dog nut. Press. Test Annulus to 35 MPA (15 min) OK. Close sub surface safety valve.
Rig out tongs & Hydratesters.

Pressure Test sub surface safety valve retaining dognut to 40 MPA.

NOTES: √ deadline anchor, fastline clamp

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

**EVENING TOUR 20:00 TO 24:00**

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

125241

FOLD HERE →

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

| DAILY CHECKS | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial |
| (2) Detailed Inspection-Weekly (using checklist) | Initial | Initial |
| (3) H²S Signs Posted (if required) | Initial | Initial |
| (4) Well License & Slick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually Inspect BOPs - Flarelines & Degasser Lines | Initial | Initial |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | Initial | |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | Initial | |
| (3) Mast Inspection Before Raising or Lowering | Initial | |
| (4) Crown Saver Checked | Initial | |
| (5) Motor Kills checked | Initial | |

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 24 |

RIG NO.: 58

**FUEL @ 8:00**

RIG 106 | BOILER

**WEATHER**

| | |
|---|---|
| TEMPERATURE °C | |
| CURRENT CONDITIONS | |
| WIND DIRECTION | |
| ROAD | |

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125241

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| Canadian Forest Oil Etal Flett N-61 | 99 | 09 | 24 |
| OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling Ltd. | | |
| RIG MANAGER: Gerry Forth | RIG NO.: 58 | | |
| PROVINCE: N.W.T. | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1152 | |

## TIME-HRS

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

| TOTALS | SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|---|
| | NO. TYPE | | | | | |
| 8 | | Derrick | TMT 8487 | | | |
| 8 | SCREENS CHANGED ☐ YES ☐ NO | | AMT 171888 | | | |
| 8 | TOP 175 | TOP 80 | | | | |
| 8 | MIDDLE ✓ | MIDDLE | | | | |
| 24 | BOTTOM ✓ | BOTTOM | ACC. Oil 39 | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

WT. OF DC 1000 daN

WT. OF STRING 1000 daN

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

## MUD RECORD

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

MORNING TOUR

## METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 02:30 | 2½ | 12 |
| 02:30 | 02:45 | ¼ | 7 |
| 02:45 | 08:00 | 5¼ | 12 |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Run Tubing & Press test f/1000-1300
R/S Tubing Rams 85sec
Run Tubing & Press Test f/1300-

NOTES √Crown Saver, deadline anchor, fastline clamp

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

**MORNING TOUR 00:00 TO 08:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | RC |
| DERRICKMAN | | Terry Foley | 8 | | TF |
| MOTORMAN | | Kevin Vandenbrand | 8 | | KV |
| FLOORMAN | | Julien Sassie | 8 | | JS |
| FLOORMAN | | Gerald Gilbert | 8 | | GG |
| LEASEMAN | | Lawrence Loreen | 8 | | LL |
| Lease | | Bert Timbre | 8 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

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

DAY TOUR

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

**DAY TOUR 08:00 TO 20:00** — INJURIES

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 12:30 | 4½ | 12 |
| 12:30 | 13:45 | ¼ | 7 |
| 13:45 | 16:00 | 3¾ | 12 |

Run Tubing & Press Test.
R/S, Function Annular. 18sec
Run Tubing & Pressure Test.

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

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

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Wotrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Tim Byers | 12 | | TB |
| FLOORMAN | | James Morton | 12 | | JM |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| Lease | | Jason Villeneuve | 12 | | JV |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

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

EVENING TOUR

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

**EVENING TOUR 20:00 TO 24:00** — INJURIES

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 16:45 | ¾ | 12 |
| 16:45 | 19:00 | 2¼ | 22 |
| 19:00 | 24:00 | 5 | 5 |

Run Tubing & Pressure Test.
Rig to reverse circulate
Reverse Circulate, Bottoms up
Displace hole to inhibited water thiough reverse circulating.

NOTES √Crown Saver, deadline anchor, Fastline clamp

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

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 4 | | RC |
| DERRICKMAN | | Terry Foley | 4 | | TF |
| MOTORMAN | | Kevin Vandenbrand | 4 | | KV |
| FLOORMAN | | Julien Sassie | 4 | | JS |
| FLOORMAN | | Gerald Gilbert | 4 | | GG |
| LEASEMAN | | Lawrence Loreen | 4 | | LL |
| Lease | | Bert Timbre | 4 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE ➔

125240

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD

SURFACE LOCATION: N61-6040-13330 | UNIQUE ID.: 300-N61W6040

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

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial |
| (2) Detailed Inspection-Weekly (using checklist) | Initial | Initial |
| (3) H2S Signs Posted (if required) | Initial | Initial |
| (4) Well License & Stick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually inspect BOP's - Flarelines & Degasser Lines | Initial | Initial |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | | Initial |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | | Initial |
| (3) Mast Inspection Before Raising or Lowering | | Initial |
| (4) Crown Saver Checked | | Initial |
| (5) Motor Kills checked | | Initial |

YEAR 99 | MONTH 09 | DAY 23

RIG NO. 58

**FUEL @ 8:00**

RIG 118 | BOILER

**WEATHER**

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

**LAST CASING TUBING OR LINER**

| O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|
| 244.5 | 220.4 | 69.94 | BT & C | K-80 | 228 | 3148.18 | 6.60 | 3147 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125240

BOARD COPY

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR 99 | MONTH 09 | DAY 23

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

RIG MANAGER: Gary Forth | RIG NO. 58

PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1151

## TIME-HRS

| CODE NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OPER. | RIG UP & TEAR DOWN | DRILL ACTUAL | REAMING | CORING | COND. MUD & CIRC | TRIPS | RIG SERVICE | REPAIR RIG | CUT OFF DRILL LINE | DEV. SURVEY | WIRE LINE LOGS | RUN CASE & CEMENT | WAIT ON CEMENT | NIPPLE UP B.O.P. | TEST B.O.P. | DRILL STEM TEST | PLUG BACK | SQUEEZE CEMENT | FISHING | DIR. WORK | SAFETY MTG. | Trip Bit assembly | W.O.O. | | |
| MORN. | | | | | | | | | | | | | | 3 | 5 | | | | | | | | | | | |
| DAY | | | | | | | | | | | | 3½ | | | 1¾ | | | | | | ¼ | 1¼ | 1¼ | | | |
| EVE. | | | | | | | | | | | | 7¾ | | | | | | | | | ¼ | | | | | |
| TOTAL | | | | | | | | | | | | 11¼ | | | 3 6¾ | | | | | | ½ | 1½ | 1¼ | | | |

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| NO. 3 | TYPE Berrick | TMI 7700 | | | |
| SCREENS CHANGED | ☐ YES ☑ NO | AMI 17101 | | | |
| TOP 175 | TOP 50 | | | | |
| MIDDLE | MIDDLE | | | | |
| BOTTOM | BOTTOM | Accum. Oil 39 | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

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

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

## MORNING TOUR

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa)

| PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|
| | | | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 03:00 | 3 | 14 | Rig: Nipple up BOP's |
| 03:00 | 08:00 | 5 | 15 | Press Test c/w Inland |
| | | | | Test pipe Rams, Kill line Valves, Choke line & Valve 1400 Kpa Low - 32000 Kpa High. |
| | | | | Test Blind Rams, manifold valves. |

NOTES: √ Crown Saver, deadline anchor, fastline clamp

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

**MORNING TOUR 00:00 TO 08:00** — INJURIES

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa)

| PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|
| 114 | | 114 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 09:45 | 1¾ | 15 | Pressure Test w/ Inland. |
| | | | | Test Annular. To 21000 KPA. |
| | | | | Test Choke line Valves, 1400 KPA Low. |
| | | | | 32000 KPA High. Function Test Accumulator. |
| 09:45 | 11:00 | 1¼ | 22 | make up Anchor Seat assembly |
| 11:00 | 11:15 | ¼ | 21 | Held safety meeting |
| 11:15 | 13:30 | 2¼ | 12 | Rig To Run Tubing |
| 13:30 | 14:45 | 1¼ | 23 | Wait on orders. |
| 14:45 | 16:00 | 1¼ | 12 | Run & pressure Test Tubing |

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

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

**DAY TOUR 08:00 TO 20:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | | YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | | MW |
| MOTORMAN | | Wendell Betthel | 12 | | | WB |
| FLOORMAN | | Tim Byers | 12 | | | TB |
| FLOORMAN | | James Morton | 12 | | | JM |
| LEASEMAN | | Jesse Lessard | 12 | | | JL |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa)

| PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|
| | | | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 19:00 | 3 | 12 | Run Tubing and pressure Test. |
| 19:00 | 19:15 | ¼ | 21 | Held safety meeting @ crew change |
| 19:15 | 24:00 | 4¾ | 12 | Run Tubing & press. Test. 1000m |

NOTES: √ Crown Saver, deadline anchor, Fastline clamp

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

**EVENING TOUR 20:00 TO 24:00** — INJURIES

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125239

| LICENCE NO. | WELL NAME AND NO. |
|---|---|
| 1863 | Canadian Forest et al Flett N-61 |
| **OPERATOR** | **CONTRACTOR** |
| Canadian Forest Oil | Akita Drilling LTD |
| **SURFACE LOCATION** | **UNIQUE ID.** |
| N61-60A0-13330 | 300-N61-6090 |
| **SIGNATURE OF OPERATOR'S REPRESENTATIVE** | **SIGNATURE OF CONTRACTOR'S RIG MANAGER** |
| Crumphe | Dave Faucht |

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial |
| (2) Detailed Inspection Weekly (using checklist) | Initial | Initial |
| (3) H2S Signs Posted (if required) | Initial | Initial |
| (4) Well License & Stick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually Inspect BOP's - Flarelines & Degasser Lines | Initial | Initial |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | | Initial |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | | Initial |
| (3) Mast Inspection Before Raising or Lowering | | Initial |
| (4) Crown Saver Checked | | Initial |
| (5) Motor Kills checked | | Initial |

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 22 |

RIG NO. 58

**FUEL @ 8:00**

RIG 1:30 BOILER

**WEATHER**

| | |
|---|---|
| TEMPERATURE °C | |
| CURRENT CONDITIONS | |
| WIND DIRECTION | |
| ROAD | |

**LAST CASING TUBING OR LINER**

| O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|
| 244.5 | 220.4 | 69.94 | BTEC | K-80 | 208 | 3148.18 | 6.60 | 3147 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | F-1000 | Emsco | 254 |
| | | | | | | | F-1000 | Emsco | 254 |

REVISED MARCH 1996

125239

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| Canadian Forest et al Flett N-61 | 99 | 09 | 22 |
| **OPERATOR** | **CONTRACTOR** | | |
| Canadian Forest Oil | Akita Drilling LTD | | |
| **RIG MANAGER** | **RIG NO.** | | |
| Dave Faucht - Manuel | 58 | | |
| **PROVINCE** | **CAMP** ☑ YES ☐ NO | **RIG SAFETY DAYS** | |
| N.W.T. | | 1150 | |

## TIME-HRS

| CODE NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OPER. | RIG UP & TEAR DOWN | DRILL ACTUAL | REAMING | CORING | COND. MUD & CIRC. | TRIPS | RIG SERVICE | REPAIR RIG | CUT OFF DRILL LINE | DEV. SURVEY | WIRE LINE LOGS | RUN CASE & CEMENT | WAIT ON CEMENT | NIPPLE UP B.O.P. | TEST B.O.P. | DRILL STEM TEST | PLUG BACK | SQUEEZE CEMENT | FISHING | DIR. WORK | SAFETY MTG. | | | | |
| MORN. | | | | | | | | | | | | | | 2½ | | | | | | | 5 | | 1/2 | | | |
| DAY | | | | | | | | | | | | | | 8 | | | | | | | | | | | | |
| EVE. | | | | | | | | | | | | | | 8 | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | 18½ | | | | | | | 5 | | 1/2 | | | |

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| NO. | TYPE | | | | |
| 2 | Derrick | TMJ 7556 | | | |
| SCREENS CHANGED | ☐ YES ☑ NO | AMJ 170957 | | | |
| 8 | TOP 175 | TOP 50 | | | |
| 8 | MIDDLE | MIDDLE | | | |
| 24 | BOTTOM | BOTTOM Accum Oil 140 | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

**MUD TYPE** ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

## MORNING TOUR

### METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 114 | |

**REDUCED PUMP SPEED** @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 04:30 | 4½ | 22 |
| 04:30 | 05:00 | ½ | 22 |
| 05:00 | 05:30 | ½ | 23 |
| 05:30 | 08:00 | 2½ | 14 |

### DETAILS OF OPERATION IN SEQUENCE AND REMARKS

LAY Down 127mm Drill Pipe
LAY Down 178mm Drill collars
Rig out LAY Down Equipment
Nipple Down BOPS For Tubing hanger

NOTES
√ Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 5 | | | | | |

## DAY TOUR

### METRES DRILLED

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

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

**REDUCED PUMP SPEED** @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 16:00 | 8 | 14 |

### DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Nipple Down BOP.
Pump #1 New heads + liners 4½" + 3 Liner cup gaskets

NOTES
√ Fastline clamp, Deadline anchor

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

## EVENING TOUR

### METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 114 | | 114 | |

**REDUCED PUMP SPEED** @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 24:00 | 14 | |

### DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Nipple up B.O.P.'s, Install Tubing spool and adapter spool. Change pipe rams To 4½", Test Tubing spool To 5000 PSI. Nipple up B.O.P.'s.

NOTES
√ Crown Saver, Fastline Clamp, Deadline Anchor

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

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | ☑ |
| DERRICKMAN | | Conrad Antle | 8 | | ☑ |
| MOTORMAN | | Mike Guerin | 8 | | ☑ |
| FLOORMAN | | Adam Murray | 8 | | ☑ |
| FLOORMAN | | Clayten Cameron | 8 | | ☑ |
| LEASEMAN | | Morse Punch | 8 | | ☑ |
| Lease | | Barry Bertrand | 8 | | ☑ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR 08:00 TO 16:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | ☑ |
| DERRICKMAN | | Terry Foley | 8 | | ☑ |
| MOTORMAN | | Kevin Vandenbrand | 8 | | ☑ |
| FLOORMAN | | Julien Sassie | 8 | | ☑ |
| FLOORMAN | | Gerald Gilbert | 8 | | ☑ |
| LEASEMAN | | Laurence Larsen | 8 | | ☑ |
| Lease | | Bert Timbre | 8 | | ☑ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | ☑ |
| DERRICKMAN | | Mike Watrich | 8 | | ☑ |
| MOTORMAN | | Wendell Bethel | 8 | | ☑ |
| FLOORMAN | | Tim Byers | 8 | | ☑ |
| FLOORMAN | | James Morton | 8 | | ☑ |
| LEASEMAN | | Jesse Lessard | 8 | | ☑ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125238

REVISED MARCH 1996

125238

BOARD COPY

APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| LICENCE NO.: | WELL NAME AND NO.: |
|---|---|
| 1863 | Canadian Forest et al Flett N-61 |
| OPERATOR: | CONTRACTOR: |
| Canadian Forest Oil | Akita Drilling LTD |
| SURFACE LOCATION: | UNIQUE ID.: |
| N61-6040-12330 | 300-N61-6040 |
| SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: |
| | Dave Jauck |

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial |
| (2) Detailed Inspection-Weekly (using checklist) | Initial | Initial |
| (3) H²S Signs Posted (if required) | Initial | Initial |
| (4) Well License & Stick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually Inspect BOP's - Flarelines & Degasser Lines | Initial | Initial |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | Initial | |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | Initial | |
| (3) Mast Inspection Before Raising or Lowering | Initial | |
| (4) Crown Saver Checked | Initial | |
| (5) Motor Kills checked | Initial | |

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 21 |

RIG NO.: 58

**FUEL @ 8:00**

RIG: 1644 BOILER:

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

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 220.4 | 69.94 | BTEC | L-80 | 128 | 3148.16 | 6.60 | 3147 |

| | 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) |
|---|---|---|---|---|---|---|---|---|---|---|
| DC | 178 | 174.15 | 4140 | 76 | 225 | 5 1/2 FH | 20 | | | |
| DP | 127 | 38.1 | HW | 95 | 165 | 4 1/2 IF | 219 | F-1000 | Emsco | 254 |
| | | 29.02 | E2 | 108 | 167 | | 158 | F-1000 | Emsco | 254 |
| | | 29.10 | E2 | 89 | 142 | | | | | |
| | ↓ | 29.10 | X95 | 89 | 168 | ↓ | 55 | | | |

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) NO. | TYPE | RENTALS/SERVICES | MORN. | DAY | EVE. |
|---|---|---|---|---|---|
| 8 | Derrick | TMJ 17CK88 | | | |
| SCREENS CHANGED ☐ YES ☒ NO | | DMJ 7207 | | | |
| 8 TOP 175 | TOP 150 | | | | |
| 8 MIDDLE 175 | MIDDLE 150 | | | | |
| 8 BOTTOM 175 | BOTTOM 150 | Accum Oil 440 | | | |
| 24 | | | | | |

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

## HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

## MORNING TOUR

### METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 300 | 152 | 90 | 114 | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| Trip Record | | |
| Cal 3190 m³ | | |
| ACT 1904 m³ | | |
| Diff +5.14 m³ | | |

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 00:30 | 1/2 | 23 |
| 00:30 | 01:00 | 1/2 | 22 |
| 01:00 | 05:15 | 4 1/4 | 5 |
| 05:15 | 08:00 | 2 3/4 | 6 |

### DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Pressure Test equipt Packer w/Rig Pump
TEST Annulus to 14000 kpa 10 min
Displace Hole From mud to H20
Flow POOH 5 STD Flow/gas ds.

NOTES: ✓ Crown Saver Fastline Clamp Deadline Anchor

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

## DAY TOUR

### METRES DRILLED

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

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

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 10:00 | 2 | 6 |
| 10:00 | 11:00 | 1 | 24 |
| 11:00 | 12:45 | 1 3/4 | 6 |
| 12:45 | 13:00 | 1/4 | 7 |
| 13:00 | 15:15 | 2 1/4 | 6 |
| 15:15 | | | 5 |
| | 16:00 | 3/4 | |

### DETAILS OF OPERATION IN SEQUENCE AND REMARKS

P/U VFlow 70 STDS, on Bank 3 Hints 7 sec
Laydown packer setting tools, M/U stinger
VFlow R.J.H W/Stinger VFlow @ 1585m
R/S function Ann 23 sec
R.T.H F/1585m - 3114 m
Break circulation and circulate above packer, circulate hole clean

NOTES: ✓ Crown Saver, deadline anchor, fastline clamp

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

## EVENING TOUR

### METRES DRILLED

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 152 | | 114 | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 18:00 | 2 | 5 |
| 18:00 | 18:15 | 1/4 | 21 |
| 18:15 | 24:00 | 5 3/4 | 18 |

### DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Circulate above packer, circulate hole clean
Hold safety meeting prior to laydown D.P.
LAY Down 127mm Drill Pipe

NOTES: ✓ Crown Saver Fastline Clamp Deadline Anchor

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

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 09 | DAY 21

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Jauck | RIG NO.: 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1149

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | ✓ |
| DERRICKMAN | | Conrad Antle | 8 | | ✓ |
| MOTORMAN | | Mike Guerin | 8 | | ✓ |
| FLOORMAN | | Adam Murray | 8 | | ✓ |
| FLOORMAN | | Clayton Cameron | 8 | | ✓ |
| LEASEMAN | | Moise Punch | 8 | | ✓ |
| RIG WATCH | | Barry Bertrand | 8 | | ✓ |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR 08:00 TO 20:00

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 4 | | ✓ |
| DERRICKMAN | | Conrad Antle | 4 | | ✓ |
| MOTORMAN | | Mike Guerin | 4 | | ✓ |
| FLOORMAN | | Adam Murray | 4 | | ✓ |
| FLOORMAN | | Clayton Cameron | 4 | | ✓ |
| LEASEMAN | | Moise Punch | 4 | | ✓ |
| RIG WATCH | | Barry Bertrand | 4 | | ✓ |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| | Stinger subassy. | 5.76 | 8.17 m |
| | pup joint | 2.41 | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| 088 | D.P. | STANDS | 3110.85 m |
| | D.P. | SINGLES | m |
| Stick up | KELLY DOWN | 5.02 | m |
| | TOTAL | 3114.00 | m |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | 104000 | | 1000 daN |

BIT RECORD / MUD RECORD / METRES DRILLED / TIME LOG / DETAILS OF OPERATION IN SEQUENCE AND REMARKS

DAY TOUR

DRILLER SIGNATURE

BOILER HRS. RAN 8

## DRILLING ASSEMBLY (At End of Tour)

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

BIT RECORD / MUD RECORD / METRES DRILLED / TIME LOG / DETAILS OF OPERATION IN SEQUENCE AND REMARKS

EVENING TOUR

DRILLER SIGNATURE

BOILER HRS. RAN 4

125237

FOLD HERE →

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al Fk#1 N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

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

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

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial DL |
| (2) Detailed Inspection-Weekly (using checklist) | Initial | Initial |
| (3) WHS Signs Posted (if required) | Initial | Initial |
| (4) Well License & Blow 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 DL |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | Initial | |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | Initial | |
| (3) Mast Inspection Before Raising or Lowering | Initial | Initial DL |
| (4) Crown Saver Checked | Initial | Initial DL |
| (5) Motor Kills checked | Initial | Initial |

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 20 |

RIG NO.: 58

**FUEL @ 8:00**

RIG: 1769 | BOILER:

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

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | 244.5 | 220.4 | 67.94 | BTEC | K-55 | 228 | 3148.18 | 6.60 | 3147 |
| TUBING OR LINER | | | | | | | | | |

| | DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 178 | 194.8 | DC | 55 | 196 | 5 1/2 FH | 28 | | | |
| | 127 | 74.8 | HW | 76 | 162 | 4 1/2 IF | 24 | F-1000 | Emsco | 254 |
| | | 29.02 | E-75 | 108 | 142 | | 28 | F-1000 | Emsco | 254 |
| | | 29.40 | E-75 | 99 | 142 | | 139 | | | |
| | | 29.40 | S-135 | 99 | 142 | | 55 | | | |

REVISED MARCH 1996

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125237

BOARD COPY

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Fk#1 N-61 | YEAR: 99 | MONTH: 09 | DAY: 20

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Lauck | RIG NO.: 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1148

## TIME-HRS

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

**TOTALS**

| | SHALE SHAKER(S) | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| 8 | #2 TYPE Derrick | TMJ 167360 | | | |
| 8 | SCREENS CHANGED ☐ YES ☒ NO | AMT 3959 | | | |
| 8 | TOP 175 TOP 50 | | | | |
| 8 | MIDDLE 175 MIDDLE 50 | | | | |
| 24 | BOTTOM 175 BOTTOM 50 | Accum Oil-AD | | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| | | | |

D.P. STANDS m | D.P. SINGLES m | KELLY DOWN m | TOTAL m

WT. OF DC 1000 daN | WT. OF STRING 1000 daN

## BIT RECORD

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

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

## HOLE CONDITION

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

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Xanvis | 1sx |
| Caustic | 1sx |

**SOLIDS CONTROL**

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

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

## METRES DRILLED

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

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | S.P.M. | PUMP NO. 2 LINER SIZE (mm) | S.P.M.: 152 | 114

**REDUCED PUMP SPEED** @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 03:00 | 3 | 11 | LAY DOWN USIT & CBL LOGS |
| 03:00 | 05:30 | 2 1/2 | 11 | RIH W/ Key #2 & Guage Ring, Junk Basket |
| 05:30 | 06:00 | 1/2 | 11 | LAY DOWN Logging Tools & RIG CUT LOGGER |
| 06:00 | 08:00 | 2 | 22 | Pick up Packer & Make up on Drill pipe |

NOTES: Crown Saver, Fastline Clamp Deadline Anchor

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

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | ☒ |
| DERRICKMAN | | Conrad Antle | 8 | | ☐ |
| MOTORMAN | | Mike Guerin | 8 | | ☐ |
| FLOORMAN | | Adam Murray | 8 | | ☐ |
| FLOORMAN | | Clayten Cameron | 8 | | ☐ |
| LEASEMAN | | Morse Punch | 8 | | ☐ |
| | | Barry Bertrand | 8 | | ☐ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | Rotary Guide | | .21 |
| 1 | 6 1/2 X Nipple | | .91 |
| 1 | Perf. Pup | | 3.10 |
| 1 | 6 1/2 x nipple | | .93 |
| 1 | pup joint | | 3.07 |
| 1 | 6 1/2 x nipple | | .39 |
| 1 | Pup 3ft. | | 3.07 |
| 1 | Packer | | 1.15 |
| 1 | Setting tool | | 2.00 |
| 1 | X/O | | .31 |
| 1 | X/O | | .92 |
| 1 | Pup 2ft. | | 2.41 |
| | D.P. | STANDS | 1983.12 |
| | D.P. | SINGLES | |
| | KELLY DOWN | | |
| | TOTAL | | 2000.09 |

WT. OF DC | WT. OF STRING: 55000

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

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

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

MUD RECORD: MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

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

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

METRES DRILLED: FROM | TO | DRD RMR CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

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

REDUCED PUMP SPEED @ @

DEVIATION SURVEY: DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG: FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 09:00 | 1 | 22 | Complete packer assembly |
| 09:00 | 12:30 | 3 1/2 | 6 | √Flow R.I.H W/Packer TO 870m. √Flow |
| 12:30 | 12:45 | 1/4 | 7 | R/S Func. Bat pipe Rsec |
| 12:45 | 16:00 | 3 1/4 | 6 | R.I.H W/Packer F/870m. - 2000m |

NOTES: √Crown Saver, deadline anchor, Fastline clamp

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

## DAY TOUR 08:00 TO 20:00

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

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | Rotary Guide | | .21 |
| 1 | 6 1/2 X Nipple | | .91 |
| 1 | Perf. Pup | | 3.10 |
| 1 | 6 1/2 X Nipple | | .93 |
| 1 | Pup Joint | | 3.07 |
| 1 | 6 1/2 x Nipple | | .39 |
| 1 | Pup 3ft. | | 3.07 |
| 1 | Packer | | 1.15 |
| 1 | Setting tool | | 2.00 |
| 1 | X/O | | .31 |
| 1 | X/O | | .92 |
| 1 | Pup 2ft. | | 2.41 |
| | D.P. | STANDS | 16.97 |
| | D.P. | SINGLES | 3116.70 |
| | KELLY DOWN | | 1.70 |
| | TOTAL | | 3115 |

WT. OF DC | WT. OF STRING: 105000

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

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

HOLE CONDITION: HOLE DRAG Heavy @ 3000 | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

MUD RECORD: MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

MUD MATERIALS ADDED: PRODUCT | AMOUNT X UNIT

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

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

METRES DRILLED: FROM | TO | DRD RMR CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN)

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | S.P.M. | PUMP NO. 2 LINER SIZE (mm) | S.P.M.: 152 | 114

REDUCED PUMP SPEED @ @

DEVIATION SURVEY: DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

TIME LOG: FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 19:45 | 3 3/4 | 6 | Cont R.I.H W/Packer SET @ 3115m |
| 19:45 | 24:00 | 4 1/4 | 23 | Drop Ball, Pressure test packer UNLATCH OFF PACKER |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

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

## EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 4 | | ☒ |
| DERRICKMAN | | Conrad Antle | 4 | | ☐ |
| MOTORMAN | | Mike Guerin | 4 | | ☐ |
| FLOORMAN | | Adam Murray | 4 | | ☐ |
| FLOORMAN | | Clayten Cameron | 4 | | ☐ |
| LEASEMAN | | Morse Punch | 4 | | ☐ |
| | | Barry Bertrand | 4 | | ☐ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☑ INVERT

CREW SAFETY DAYS

FOLD HERE →

125236

| LICENCE NO.: | WELL NAME AND NO.: |
|---|---|
| 1863 | Canadian Forest et al Flett N-61 |
| **OPERATOR:** | **CONTRACTOR:** |
| Canadian Forest Oil | Akita Drilling LTD |
| **SURFACE LOCATION:** | **UNIQUE ID.:** |
| N41 - 6040 - 12330 | 300 - N41 - 6040 |
| **SIGNATURE OF OPERATOR'S REPRESENTATIVE:** | **SIGNATURE OF CONTRACTOR'S RIG MANAGER:** |
| A. Murdoch | Dave Lauck |

**DAILY CHECKS** (OPR. / R.M.)

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

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 19 |

RIG NO.: 58

**FUEL @ 8:00**

RIG: 1560 BOILER:

**WEATHER**

| | |
|---|---|
| TEMPERATURE °C | |
| CURRENT CONDITIONS | |
| WIND DIRECTION | |
| ROAD | |

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 220.4 | 59.94 | BTEC | L-80 | 228 | 3148.18 | 6.60 | 3147 |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS |
|---|---|---|---|---|---|---|
| 171.5 | 179.53 | DC | 95 | 203 | 6⅝ REG | 17 |
| 127 | 74.4 | HW | 76 | 165 | 4½ IF | 17 |
| ↓ | 29.02 | E2 | 89 | 142 | V | 195 |
| | 3.10 | E2 | 89 | 114 | V | 35 |

| PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|
| F-1000 | Emsco | 254 |
| F-1000 | Emsco | 254 |

REVISED MARCH 1996

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125236

BOARD COPY

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| Canadian Forest et al Flett N-61 | 99 | 09 | 19 |
| **OPERATOR** | **CONTRACTOR** | | |
| Canadian Forest Oil | Akita Drilling LTD | | |
| **RIG MANAGER** | | **RIG NO.** | |
| DAVE LAUCK | | 58 | |
| **PROVINCE** | CAMP ☒ YES ☐ NO | **RIG SAFETY DAYS:** | |
| N.W.T. | | 1147 | |

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 LAY Down Pipe | 24 Huddle Tools | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | | | ¼ | | ¾ | | | | | | | | | | | | | 1½ | | | |
| DAY | | | | | | 2 5¾ | ¼ | ¼ | | | | | | | | | | | | | | | | | | |
| EVE. | | | | | | | | | | | | 7½ | | | | | | | | | | | | | | |
| TOTAL | | | | | | 2 5¾ | ¼ | ½ | | ¾ | | 7½ | | | | | | | | | | | 1½ | ½ | | |

**TOTALS**

| SHALE SHAKER(S) NO. | TYPE | RENTALS/SERVICES | MORN. | DAY | EVE. |
|---|---|---|---|---|---|
| 2 | Derrick | TMJ 165608 | | | |
| SCREENS CHANGED ☐ YES ☒ NO | | TMJ 2207 | | | |
| 6 TOP 175 | TOP 50 | | | | |
| 6 MIDDLE 175 | MIDDLE 50 | | | | |
| 24 BOTTOM 175 | BOTTOM 50 | Drum Oil - 40 | | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | BIT | | .25 |
| 1 | Scrapper | | 1.09 |
| 1 | Bit Sub | | 1.22 |
| 2 | 178 DC | | 11.10 |
| 1 | JARS | | 5.44 |
| 1 | 178 DC | | 9.54 |
| 1 | X/O | | 1.41 |
| 9 | HWDP | | 81.94 |
| | | | |
| | | BHA= | 119.99 |
| 106 | D.P. | STANDS | 3043.01 |
| | D.P. | SINGLES | |
| Stuck up | KELLY DOWN | | 18.50 |
| | TOTAL | | 3144.5 |
| WT. OF DC | | 1000 daN | 40.0 |
| WT. OF STRING | | 1000 daN | 109.000 |

## BIT RECORD

| | |
|---|---|
| BIT NO. | Scrapper Run |
| SIZE (mm) | 215.9 |
| IADC CODE | |
| MFG. | H.C. |
| TYPE | J33 |
| SERIAL NO. | CFE63 |
| JETS (mm) | 3 x 11.1 |
| DEPTH OUT (m) | |
| DEPTH IN (m) | |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | TRIP Record |
| DENSITY kg/m³ | |
| FUNNEL VIS. - (S/L) | Cal: 15.44 m³ |
| W.L. (cm³) | Act: 20.30 m³ |
| pH | Diff: 4.36 m³ |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**MORNING TOUR**

## METRES DRILLED

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

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

| | | | |
|---|---|---|---|
| | 152 | | 152 |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 0000 | 01:30 | 1½ | 22 |
| 1:30 | 04:15 | 2¾ | 6 |
| 4:15 | 04:30 | ¼ | 5 |
| 4:30 | 05:15 | ¾ | 9 |
| 05:15 | 05:30 | ¼ | 7 |
| 05:30 | 06:15 | ¾ | 6 |
| 6:15 | 6:30 | ¼ | 5 |
| 6:30 | 07:30 | 1 | 6 |
| 07:30 | 08:00 | ½ | 3 |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

LAY Down 89mm Drill Pipe Flows
M/U BHA & RIH w/Scrapper
Break Circ. @ 1528m
Cut & Slip 20 m Drill Line
R/S Function Annular 19 sec.
RIH From 1528m - 2503m Flows
Fill Pipe & Brk. Circ. @ 2503m
RIH From 2503m - 3144.5m
Break circulation & circulate

NOTES: Function Test Crown Saver After Cut & Slip
√ Crown Saver Fast Line Clamp Deadline Anchor

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

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | ☒ |
| DERRICKMAN | | Conrad Antle | 8 | | ☒ |
| MOTORMAN | | Mike Guerin | 8 | | ☒ |
| FLOORMAN | | Adam Murray | 8 | | ☒ |
| FLOORMAN | | Clayton Cameron | 8 | | ☒ |
| LEASEMAN | | Morse Punch | 8 | | ☒ |
| | | Barry Bertrand | 8 | | ☒ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | 09:00 |
| DENSITY kg/m³ | 1045 |
| FUNNEL VIS. - (S/L) | 49 |
| W.L. (cm³) | |
| pH | 10.7 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**DAY TOUR**

## METRES DRILLED

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

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

| | | | | |
|---|---|---|---|---|
| 5400 | 152 | 90 | | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| Trip Record | | |
| Cal 15.98 m³ | | |
| ACT 19.05 m³ | | |
| Diff 3.07 m³ | | |

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 10:00 | 2 | 5 |
| 10:00 | 12:45 | 2¾ | 6 |
| 12:45 | 13:00 | ¼ | 7 |
| 13:00 | 16:00 | 3 | 6 |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Circulate bottoms up & circulate
√ Flow P.O.H 5 STDS √ Flow 5 STDS
R/S Top pipe 8 sec
P.O.H √ Flow @ H.W.T on Bank
Blind rams 7 sec

NOTES: √ Crown Saver, deadline anchor, fastline clamp

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

**DAY TOUR 08:00 TO 20:00**

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

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

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

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | 2400 |
| DENSITY kg/m³ | |
| FUNNEL VIS. - (S/L) | |
| W.L. (cm³) | |
| pH | |
| FVT | A6.2 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

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

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

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

**EVENING TOUR**

## METRES DRILLED

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

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

| | | | | |
|---|---|---|---|---|
| | | | | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 16:30 | ½ | 23 |
| 16:30 | | | 11 |
| | 2400 | 7½ | |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

Laydown Jars, bit sub, scraper
Rig up to log w/ Schlumberger
Run Schlumberger USIT & CBT LOG #1

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor

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

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 4 | | ☒ |
| DERRICKMAN | | Conrad Antle | 4 | | ☒ |
| MOTORMAN | | Mike Guerin | 4 | | ☒ |
| FLOORMAN | | Adam Murray | 4 | | ☒ |
| FLOORMAN | | Clayton Cameron | 4 | | ☒ |
| LEASEMAN | | Morse Punch | 4 | | ☒ |
| | | Barry Bertrand | 4 | | ☒ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☒ INVERT

CREW SAFETY DAYS

FOLD HERE →

125235

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-E040-12330 | UNIQUE ID.: 300-N61-E040

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

**DAILY CHECKS** (OPR. / R.M.)

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

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

YEAR 99 | MONTH 09 | DAY 18

RIG NO. 58

**FUEL @ 8:00**

RIG 3.06 | BOILER

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

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 220.4 | 69.94 | BTEC | L-80 | 285 | 3148.18 | 6.60 | 3147 |

| | DC/DP. SIZE (m) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 178 | 134.5 | DC | 71 | 178 | 5½FH | 66 | | | |
| | 127 | 79.4 | HW | 76 | 165 | 4½IF | 219 | F-1000 | Emsco | 254 |
| | ↓ | 29.07 | E2 | 89 | 165 | | 19 | F-1000 | Emsco | 254 |
| | | 28.10 | E2 | 89 | 152 | | 184 | ↓ | ↓ | ↓ |
| | | | | | | | 55 | | | |

REVISED MARCH 1996

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125235

BOARD COPY

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 09 | DAY 18

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1146

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | | 7¾ | ¼ | | | | | | | | | | | | | | BOP Drill | Top drive | Polish Plug | | |
| DAY | | | | | | 3 | 3¾ | | | | | | | | | | | | | | | ¼ | ½ | ½ | | |
| EVE. | | | | | | 2¾ | ¼ | | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | 5¾ | 11 | ¼ | | | | | | | | | | | | | | ¼ | ½ | ½ | | |

**TOTALS**

**SHALE SHAKER(S)**

| NO. | TYPE |
|---|---|
| 8 | Derrick |
| 8 | |
| 8 | |
| 24 | |

SCREENS CHANGED ☐ YES ☒ NO

TOP 175 | TOP 50
MIDDLE 175 | MIDDLE 50
BOTTOM 175 | BOTTOM 50

**RENTALS/SERVICES**

| | MORN. | DAY | EVE. |
|---|---|---|---|
| TMJ 16246 | | | |
| AMJ 7752 | | | |
| Accum oil-39 | | | |

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | BIT SUB | | 1.22 m |
| 2 | 178 DC | | 19.10 m |
| 1 | JARS | | 5.44 m |
| 1 | 178 DC | | 9.54 m |
| 1 | X/O | | 1.41 m |
| 9 | HWDP | | 81.94 m |
| | | BHA | 118.90 m |
| | D.P. | STANDS | m |
| | D.P. | SINGLES | m |
| | KELLY DOWN | | m |
| | TOTAL | | m |

WT. OF DC 2000 1000 daN
WT. OF STRING 1000 daN

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE (mm) | 215.9 |
| IADC CODE | |
| MFG. | H.C. |
| TYPE | J7 |
| SERIAL NO. | CF863 |
| JETS (mm) | 3 x 11.1 |
| DEPTH OUT (m) | |
| DEPTH IN (m) | |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

TRIP RECORD
Cal 14.6m³
mea 18.25m³
Diff - 3.39m³

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

MORNING TOUR

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa)

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | | | 6 |
| | 05:15 | 5¼ | 6 |
| 05:15 | 05:30 | ¼ | 7 |
| 05:30 | 08:00 | 2½ | 6 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

P.O.O.H TO CHECK FOR WASHOUT
Flow 50 stds. HW. OUT OF HOLE
R/S FUNCTION BLIND RAMS & SEC.
MAKE UP BHA & R.I.H. TO 700m

NOTES: √Crown Saver Fastline Clamp

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

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | | |
| DERRICKMAN | | Conrad Antle | 8 | | | |
| MOTORMAN | | Mike Guerin | 8 | | | |
| FLOORMAN | | Adam Murray | 8 | | | |
| FLOORMAN | | Clayton Cameron | 8 | | | |
| LEASEMAN | | Moise Punch | 8 | | | |
| Lease | | Barry Bertrand | 8 | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

---

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | Bit sub | | 1.22 m |
| 2 | 178 D.C. | | 19.10 m |
| 1 | Jars | | 5.44 m |
| 1 | 178 D.C. | | 9.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W.D.P | | 81.94 m |
| | | BHA | 118.90 m |
| 110 | D.P. | STANDS | 3159.36 m |
| | D.P. | SINGLES | m |
| Stick up | KELLY DOWN | | 23.76 m |
| | TOTAL | | 3354.5 m |

WT. OF DC 2000 1000 daN
WT. OF STRING 113000 1000 daN

**BIT RECORD**

| | |
|---|---|
| BIT NO. | Polish Plug |
| SIZE (mm) | 215.9 |
| IADC CODE | |
| MFG. | H.C. |
| TYPE | J7 |
| SERIAL NO. | CF863 |
| JETS (mm) | 3x11.1 |
| DEPTH OUT (m) | |
| DEPTH IN (m) | |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

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

**HOLE CONDITION**

HOLE DRAG 7000↓ 8000↑
TORQUE AT BOTTOM 7000 NM 10 RPM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 15:00 | 17:00 | 18:30 |
| DENSITY kg/m³ | 1055 | 1050 | 1045 |
| FUNNEL VIS. - (S/L) | 49 | 45 | 45 |
| W.L. (cm³) | | | |
| pH | 10.8 | 10.8 | 10.8 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| SAFERITE | 1 pail |
| Biocide | 1 pail |
| Lubrex | 1 pail |
| Sod. SILEX | 1 sx |
| Sod. Bicarb | 1 sx |
| Premix | 7.0m³ |
| H₂O | 2.2m³ |

**SOLIDS CONTROL**

DESILTER

| HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³) |
|---|---|---|---|
| 5 | 1065 | 1015 | 1800 |

CENTRIFUGE

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

DAY TOUR

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa) 5900

| PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|
| 152 | 90 | | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 09:15 | 1¼ | 6 |
| 09:15 | 09:30 | ¼ | 22 |
| 09:30 | | | 6 |
| | 12:00 | 2½ | 6 |
| 12:00 | 12:30 | ½ | 23 |
| 12:30 | 13:00 | ½ | 24 |
| 13:00 | 16:00 | 3 | 5 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

R.I.H F/700m - 1521m √Flow, Break circ
Hold BOP while tripping Well secure 90sec
R.I.H F/1521-1870 √Flow Breakcirc.
R.I.H F/1870-2414 √Flow Break circ.
R.I.H F/2414-2968 √Flow Break circ
R.I.H F/2968-3240.80 Tag Top of plug
Change out saver sub, laydowne PU Hyd
Polish plug to 3254.5m KB
Circulate Bottoms up, condition mud
(set 12000 DaN on Top of plug @ 14:20)

NOTES: √Crown Saver, deadline anchor, fastline clamp, Function Choke 22sec, H2S competency Training meeting W/crew

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

**DAY TOUR 08:00 TO 20:00**

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

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

---

**DRILLING ASSEMBLY (At End of Tour)**

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

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

**BIT RECORD**

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

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

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER

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

CENTRIFUGE

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

EVENING TOUR

**METRES DRILLED**

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

CIRCULATION PRESSURE (kPa)

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

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 18:45 | 2¾ | 5 |
| 18:45 | 24:00 | 5¼ | 6 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Circulate & Condition mud
Flow Check Hour 5:30, 70 100 out of Hole

NOTES: √Crown Saver Fastline Clamp Deadline Anchor

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

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 4 | | | |
| DERRICKMAN | | Conrad Antle | 4 | | | |
| MOTORMAN | | Mike Guerin | 4 | | | |
| FLOORMAN | | Adam Murray | 4 | | | |
| FLOORMAN | | Clayton Cameron | 4 | | | |
| LEASEMAN | | Moise Punch | 4 | | | |
| Lease | | Barry Bertrand | 4 | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☒ INVERT

CREW SAFETY DAYS

FOLD HERE →

125234

LICENCE NO.: 1863
WELL NAME AND NO.: Canadian Forest et al Flett N-61
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: N61 E 6040 - 12330
UNIQUE ID.: 300 - N61 - 6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

**DAILY CHECKS** — OPR. / R.M.

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

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

YEAR 99 | MONTH 09 | DAY 17
RIG NO. 58
FUEL @ 8:00: 97
RIG | BOILER

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

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 220.4 | 69.94 | BTEC | L-80 | 208 | 3198.18 | 6.60 | 3147 |

| | DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 178 | 178.6 | DC | 71 | 178 | 5 1/2 FH | 12 | | | |
| | 127 | 74.4 | HW | 76 | 165 | 4 1/2 IF | 9 | F-1000 | Emsco | 254 |
| | | 29.02 | E2 | 108 | 143 | | 205 | F-1000 | Emsco | 254 |
| | | 38.10 | E3 | 57 | 89 | 4 | 138 | | | |
| | | | SS-95 | 59 | 178 | | 35 | | | |

REVISED MARCH 1996

125234

BOARD COPY

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

## DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 09 | DAY 17
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
RIG MANAGER: Dave Lauck.
RIG NO.: 58
PROVINCE: N.W.T.
CAMP ☒ YES ☐ NO
RIG SAFETY DAYS: 1145

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| NO. 8 | TYPE 3 Derrick | TMJ 15496 25 | | | |
| SCREENS CHANGED ☐ YES ☒ NO | | AMJ H407 | | | |
| TOP 8 — 175 | TOP 50 | | | | |
| MIDDLE 8 — 175 | MIDDLE 50 | | | | |
| BOTTOM 24 — 175 | BOTTOM 50 | Accum Oil - 39 | | | |

### DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 89mm DP | | 94.13 |
| 1 | X/O | | .35 |
| 30 | JTS 127mm E2 | | 288.35 |
| 9 | JTS 127mm HW | | 81.94 |
| 141 | JTS 127mm E2 | | 1350.55 |
| 138 | JTS 127mm E3 | | 1316.97 |
| 3 | JTS 127mm SS95 | | 29.09 |
| | TOTAL | | 3161.38 |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| Stick Up | KELLY DOWN | | 20.43 |
| | TOTAL | | 3190.95 |
| WT. OF DC | | 1000 daN | |
| WT. OF STRING | | 1000 daN | 105000 |

### BIT RECORD

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

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

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

### MUD RECORD

| MUD TYPE | ☑ WATER BASED | ☐ OIL BASED | |
|---|---|---|---|
| TIME | 01:00 | 04:30 | 07:00 |
| DENSITY kg/m³ | 1050 | 1045 | 1050 |
| FUNNEL VIS. - (S/L) | 46 | 45 | 45 |
| W.L. (cm³) | 7.5 | 7.5 | 7.5 |
| pH | 11.0 | 11.0 | 11.0 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| XANVIS | 9 sx |
| DRISPAC 3E6 | 4 sx |
| STARPAC | 12 sx |

**SOLIDS CONTROL**

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

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

### METRES DRILLED

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

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

1400 | 58 | 50 | 158

**REDUCED PUMP SPEED**: 1400 @ 50 @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 00:15 | 1/4 | 13 | Cement plug @ 3279.8m |
| 00:15 | 01:00 | 3/4 | 6 | P.U.H. F/3280m - 3140m f. W.O.C. |
| 01:00 | 08:00 | 7 | 13 | Circulate & Wait on Cement |

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

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

### MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | ☒ |
| DERRICKMAN | | Conrad Antle | 8 | | ☒ |
| MOTORMAN | | Mike Guerin | 8 | | ☒ |
| FLOORMAN | | Adam Murray | 8 | | ☒ |
| FLOORMAN | | Clayton Cameron | 8 | | ☒ |
| LEASEMAN | | Morse Punch | 8 | | ☒ |
| Lease | | Barry Bertrand | 8 | | ☒ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

MORNING TOUR

### DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 89mm DP | | 94.13 |
| 1 | X/O | | .35 |
| 30 | JTS 127 E2 | | 288.35 |
| 9 | JTS 127 HW | | 81.94 |
| 141 | JTS 127 E2 | | 1350.55 |
| 138 | JTS 127 E3 | | 1316.97 |
| 18 | JTS 127 SS95 | | 174.38 |
| | Total | | 3306.67 |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| Stick Up | KELLY DOWN | | 26.67 |
| | TOTAL | | 3280 |
| WT. OF DC | | 1000 daN | |
| WT. OF STRING | | 1000 daN | 108000 |

### BIT RECORD

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

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

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

### MUD RECORD

| MUD TYPE | ☐ WATER BASED | ☐ OIL BASED | |
|---|---|---|---|
| TIME | 18:00 | 14:00 | 17:00 |
| DENSITY kg/m³ | 1060 | 1055 | 1050 |
| FUNNEL VIS. - (S/L) | 52 | 50 | 48 |
| W.L. (cm³) | 7.5 | 6.5 | 6.5 |
| pH | 11.0 | 10.7 | 10.5 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| MIKA | 1 SX |
| CELLO | 1 SX |

**SOLIDS CONTROL**

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

CENTRIFUGE: 7 | 1065 | 1020 | 2235

### METRES DRILLED

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

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

3550 | 152 | 70

**REDUCED PUMP SPEED**: @ @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 06:00 | 08:15 | 1/4 | 13 | Circulate & wait on cement |
| 08:15 | 08:45 | 1/2 | 6 | P.U.H. F/3140 - 3180 Tag top of plug |
| 08:45 | 16:00 | 7 1/4 | 5 | Circulate bottoms up, condition mud |

NOTES: ✓Crown Saver, deadline anchor, fastline clamp

| BOILER: HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 117000 | | |

### DAY TOUR 08:00 TO 20:00

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

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

### DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 89mm DP | | 94.13 |
| 1 | X/O | | .35 |
| 30 | JTS 127 E2 | | 288.35 |
| 9 | JTS 127 HW | | 81.94 |
| 141 | JTS 127 E2 | | 1350.55 |
| 138 | JTS 127 E3 | | 1316.97 |
| 15 | JTS 127 SS95 | | 145.52 |
| | TOTAL | | 3278.26 |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| Stick Up | KELLY DOWN | | 30.74 |
| | TOTAL | | 3308.98 |
| WT. OF DC | | 1000 daN | |
| WT. OF STRING | | 1000 daN | 107000 |

### BIT RECORD

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

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

HOLE CONDITION: HOLE DRAG; TORQUE AT BOTTOM; FILL ON BOTTOM (m)

### MUD RECORD

| MUD TYPE | ☑ WATER BASED | ☐ OIL BASED |
|---|---|---|
| TIME | 19:00 | |
| DENSITY kg/m³ | 1050 | |
| FUNNEL VIS. - (S/L) | 50 | |
| W.L. (cm³) | 7.6 | |
| pH | 11.0 | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| BARABUFFER | 2 |

**SOLIDS CONTROL**

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

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

### METRES DRILLED

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

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

152 | 152

**REDUCED PUMP SPEED**: @ @

**DEVIATION SURVEY**: DEPTH (m) | DEVIATION (°) | DIRECTION

DRILLER SIGNATURE

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 17:15 | 1 1/4 | 5 | Circulate & condition mud |
| 17:15 | | | 12 | Rack back 1 std, P/U pup jt. Pump mud to |
| | 18:00 | 3/4 | | Swivel, Prep to spot cement plug |
| 18:00 | 18:15 | 1/4 | 21 | Hold safety meeting prior to running plug |
| 18:15 | 19:00 | 3/4 | 12 | Mix & pump cement plug. |
| 19:00 | | | 13 | Rig out cement head, lay down pup, Pull to |
| | 22:15 | 3 1/4 | | 3347m. Circulate & wait on cement |
| 22:15 | 24:00 | 1 3/4 | 6 | Flow ✓ Pooh 5 stds Flow 10 stds Flow |
| | | | | To check for washout. |
| PLUG #6 | | | | 3280mKB - 3251mKB 1.5m³ |
| THERMAL | | | | 40 w/.7 CFR 1.9% CFL-2 .15% |
| LTR 1.5% HTR. Plug Down 99/09/17 @ 1850hrs. | | | | |

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

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

### EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 4 | | ☒ |
| DERRICKMAN | | Conrad Antle | 4 | | ☒ |
| MOTORMAN | | Mike Guerin | 4 | | ☒ |
| FLOORMAN | | Adam Murray | 4 | | ☒ |
| FLOORMAN | | Clayton Cameron | 4 | | ☒ |
| LEASEMAN | | Morse Punch | 4 | | ☒ |
| Lease | | Barry Bertrand | 4 | | ☒ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

FOLD HERE →

125233

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

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

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

**DAILY CHECKS**

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

YEAR 99 | MONTH 09 | DAY 16 | RIG NO. 56

**FUEL @ 8:00**

RIG 1:16 | BOILER

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

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | 244.5 | 220.4 | 69.94 | BTC | L-80 | 228 | 3148.18 | 6.60 | 3147 |
| TUBING OR LINER | | | | | | | | | |

| | DC/DP. SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS |
|---|---|---|---|---|---|---|---|
| | 178 | 178.5 | DC | 95.2 | 196 | 5 1/2 FH | 26 |
| | 127 | 74.4 | HW | 76 | 165 | 4 1/2 IF | 17 |
| | | 29.02 | E2 | 108 | 152 | | 216 |
| | | 36.10 | E3 | 95 | 152 | 1 | 138 |
| | | " | | 95.25 | 197 | KA | 2 |

| PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|
| F-1000 | Emsco | 254 |
| F-1000 | Emsco | 254 |

REVISED MARCH 1996

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125233

BOARD COPY

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N-61 | YEAR 99 | MONTH 09 | DAY 16

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Lauck | RIG NO. 56

PROVINCE: NWT | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1198

**TIME-HRS**

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

**TOTALS**

| SHALE SHAKER(S) NO. | TYPE |
|---|---|
| 2 | Derrick |
| SCREENS CHANGED | ☐ YES ☒ NO |
| TOP / MIDDLE / BOTTOM | 175 / 175 / 175 |
| TOP / MIDDLE / BOTTOM | 50 / 50 / 50 |

| RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|
| TMJ 158621 | | | |
| AMJ 3405 | | | |
| Accum Oil 39 | | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 89mm DP | | 94.13 |
| 1 | X/O | | .35 |
| 30 | JTS 127 E2 | | 288.35 |
| 9 | HW | | 81.94 |
| 141 | JTS 127 E2 | | 1350.55 |
| 138 | JTS 127 E3 | | 1316.97 |
| 14 | JTS 127 SS-95 | | 135.58 |
| | | | |
| | TOTAL = 3267.87 | | |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| Stick Up | KELLY DOWN | | 15.67 |
| | TOTAL | | 3252 |
| WT. OF DC | | 1000 daN | |
| WT. OF STRING | 100 000 | 1000 daN | |

## BIT RECORD

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

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

**HOLE CONDITION**

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

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 01:00 | 03:00 | 07:00 |
| DENSITY kg/m³ | 1045 | 1045 | 1045 |
| FUNNEL VIS. - (S/L) | 43 | 45 | 45 |
| W.L. (cm³) | 7.5 | 7.5 | 7.5 |
| pH | 10.5 | 10.5 | 11.0 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| STARPAK | 125x |
| XANVIS | 45x |
| DRISPAC | 45x |
| CALCIUM CHLORIDE | 25x |

**SOLIDS CONTROL**

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

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

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

## MORNING TOUR

**METRES DRILLED**

| FROM | TO | DRLG RM.R. CORE C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 1500 | 152 | 55 | 152 | |

**REDUCED PUMP SPEED**

1300 @ 50 @

**DEVIATION SURVEY**

DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 04:00 | 4 | 13 | Circulate @ 3146m f/ Wait on cement |
| 04:00 | 05:00 | 1 | 6 | R.I.H. to 3290m - P.O.H. to 3252m |
| 05:00 | 07:15 | 2 1/4 | 13 | Circulate @ 3252m f/ Wait on Cement |
| 07:15 | 07:30 | 1/4 | 6 | Trip in to plug |
| 07:30 | 08:00 | 1/2 | 5 | Circulate & prep to run cement plug. |

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 117000 | | 11797 |

**MORNING TOUR 00:00 TO 08:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | ✓ |
| DERRICKMAN | | Conrad Antle | 8 | | ✓ |
| MOTORMAN | | Mike Guerin | 8 | | ✓ |
| FLOORMAN | | Adam Murray | 8 | | ✓ |
| FLOORMAN | | Clayton Cameron | 8 | | ✓ |
| LEASEMAN | | Morse Punch | 8 | | ✓ |
| Lease | | Barry Bertrand | 8 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 89mm DP | | 94.13 |
| 1 | X/O | | .35 |
| 30 | JTS 127 E2 | | 288.35 |
| 9 | JTS 127 HW | | 81.94 |
| 141 | JTS 127 E2 | | 1350.55 |
| 138 | JTS 127 E3 | | 1316.97 |
| 2 | JTS 127 SS-95 | | 19.40 |
| | Total | | 3156.69 |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| Stick Up | KELLY DOWN | | 6.69 |
| | TOTAL | | 3145.00 |
| WT. OF DC | | 1000 daN | |
| WT. OF STRING | 105000 | 1000 daN | |

## BIT RECORD

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

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

**HOLE CONDITION**

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

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 08:00 | 13:00 | 16:00 |
| DENSITY kg/m³ | 1050 | 1045 | 1045 |
| FUNNEL VIS. - (S/L) | 45 | 48 | 48 |
| W.L. (cm³) | 7.6 | 7.5 | 7.5 |
| pH | 11.0 | 11.0 | 11.0 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Safe-Kote | 1 pail |
| Bicide | 1 pail |
| Sod. Sulf. | 1 sx |
| Corinox | 1 pail |
| Sod. Bicarb | 1 sx |

**SOLIDS CONTROL**

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

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

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

## DAY TOUR

**METRES DRILLED**

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 1500 | 152 | 55 | | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 11:15 | 3 1/4 | 5 | Circulate rig up Sangel, prep to cement |
| 11:15 | 13:00 | 3/4 | 12 | Spot cement plug |
| 13:00 | 13:15 | 1/4 | 13 | P.O.H TO 3251m W.O.C |
| 13:15 | 14:00 | 3/4 | 13 | Circulate bottoms up W.O.C |
| 14:00 | 14:15 | 1/4 | 13 | P.O.H TO 3145m W.O.C |
| 14:15 | 16:00 | 1 3/4 | 13 | Circulate, wait on cement |

PLUG # 4 3300 - 3255 mKB 2.5t OF THERMAL 40 10% Excess
W/ 7% CFR 3.9% CFL-2 & 1.5% LTR & 1.5% HTR.
PLUG DOWN 99/09/16 @ 1198 hours
FELT @ 3300 mKB.

NOTES: ✓ Crown Saver, deadline anchor, fastline clamp
Held safety meeting prior to cementing

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | Cementing | 11797 |

**DAY TOUR 08:00 TO** 20:00 — INJURIES

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 98mm DP | | 94.13 |
| 1 | X/O | | .35 |
| 30 | JTS 127mm E2 | | 288.35 |
| 9 | JTS 127mm HW | | 81.94 |
| 141 | JTS 127mm E2 | | 1350.55 |
| 138 | JTS 127mm E3 | | 1316.97 |
| 15 | JTS 127mm SS95 | | 146.30 |
| 1 | 127mm Pup Joint | | 3.65 |
| | TOTAL = 3261.24 | | |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| Stick Up | KELLY DOWN | | 1.42 |
| | TOTAL | | 3247.82 |
| WT. OF DC | | 1000 daN | |
| WT. OF STRING | 109000 | 1000 daN | |

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG 4000 ↓ 6000 ↑ | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☐ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 19:00 | | |
| DENSITY kg/m³ | 1045 | | |
| FUNNEL VIS. - (S/L) | 46 | | |
| W.L. (cm³) | | | |
| pH | 11.0 | | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Caustic SS | 21 sx |

**SOLIDS CONTROL**

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

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

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

## EVENING TOUR

**METRES DRILLED**

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

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 1500 | 152 | 55 | 152 | |

**REDUCED PUMP SPEED**

1300 @ 50 @

**DEVIATION SURVEY**

DEPTH (m) | DEVIATION (°) | DIRECTION

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 20:00 | 4 | 13 | Circulate, wait on Cement |
| 20:00 | 20:30 | 1/2 | 6 | R.I.H. f/ 3145m - 3280 Tag cement @ 3255m |
| 20:30 | 23:30 | 3 | 5 | Circulate Bottoms up Tanker 37m³ |
| 23:30 | 23:45 | 1/4 | 21 | Held pre job Safety meeting |
| 23:45 | 24:00 | 1/4 | 12 | Cement plug @ 3279.6m |

PLUG # 5 3280 - 3255 mKB 2t (10% Excess)
W/ 7% CFR 3.9% CFL-2 & 1.5% LTR & 1.5% HTR.
PLUG Down 99/09/17 @ 1209 hours.

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 116000 | | 11797 |

**EVENING TOUR** 20:00 **TO 24:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 4 | | ✓ |
| DERRICKMAN | | Conrad Antle | 4 | | ✓ |
| MOTORMAN | | Mike Guerin | 4 | | ✓ |
| FLOORMAN | | Adam Murray | 4 | | ✓ |
| FLOORMAN | | Clayton Cameron | 4 | | ✓ |
| LEASEMAN | | Morse Punch | 4 | | ✓ |
| Lease | | Barry Bertrand | 4 | | ✓ |
| RIG WATCH | | | | | |

4/2/1997

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125232

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

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6540-13730 | UNIQUE ID.: 300-N61-6040

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

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial AL | Initial |
| (2) Detailed Inspection Weekly (using checklist) | Initial | Initial |
| (3) H²S Signs Posted (if required) | Initial | Initial |
| (4) Well License & Stick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually Inspect BOP's - Flarelines & Degasser Lines | Initial | Initial |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | Initial | |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | Initial | |
| (3) Mast Inspection Before Raising or Lowering | Initial | |
| (4) Crown Saver Checked | Initial | |
| (5) Motor Kills checked. | Initial | |

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 15 |

RIG NO. 58

**FUEL @ 8:00**

RIG 1.30 | BOILER

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

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | 244.5 | 220.4 | 69.94 | BTC | L-80 | 228 | 3148.18 | 6.60 | 3147 |
| TUBING OR LINER | | | | | | | | | |

| | DC/DP SIZE (mm) | LINEAR MASS | GRADE | MIN. ID. | TOOL JT O.D. | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 178 | 171.8 | DC | 50.8 | 198 | 5 1/2 FH | 28 | | | |
| | 127 | 74.4 | HW | 76 | 165 | 4 1/2 IF | 17 | F-1000 | Emsco | 254 |
| | | 29.02 | E2 | 108 | 162 | | 218 | F-1000 | Emsco | 254 |
| | | 30.10 | E3 | 89 | 162 | 1 | 190 | | | |
| | | | | 5595 | 89 | 164 | | 28 | | |

REVISED MARCH 1996

APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125232

BOARD COPY

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N61 | YEAR 99 | MONTH 09 | DAY 15

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Lauck | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1143

**TIME-HRS**

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

**SHALE SHAKER(S) / RENTALS/SERVICES**

| NO. | TYPE | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| 2 | Derrick | Derrick TmJ - 157957 | | | |
| 8 | SCREENS CHANGED ☑ YES ☐ NO | AmJ - 2721 | | | |
| 8 | TOP 175 | TOP 50 | | | |
| 8 | MIDDLE | MIDDLE | | | |
| 84 | BOTTOM | BOTTOM Accum Oil - .39 | | | |

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 89mm DP | | 94.13 |
| 1 | X10 | | .35 |
| 30 | JTS 127mm E2 DP | | 288.35 |
| 9 | H.W. | | 81.94 |
| 141 | JTS 127mm E2 | | 1350.55 |
| 38 | JTS 127mm E3 | | 1316.97 |
| 30 | JTS 127mm SS-95 | | 153.77 |
| | TOTAL: | | 3326.06 |

D.P. | STANDS | m
D.P. | SINGLES | m
KELLY DOWN | m
TOTAL | m
WT. OF DC 1000 daN
WT. OF STRING 110000 1000 daN

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

| MUD TYPE | ☑ WATER BASED | ☐ OIL BASED | |
|---|---|---|---|
| TIME | 02:00 | 04:00 | 06:00 |
| DENSITY kg/m³ | 1045 | 1045 | 1045 |
| FUNNEL VIS. - (S/L) | 40 | 40 | 39 |
| W.L. (cm³) | 7.5 | 7.8 | 7.5 |
| pH | 10.5 | 10.5 | 10.5 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Super pac | 3 SX |

**SOLIDS CONTROL**

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

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

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

**MORNING TOUR**

**METRES DRILLED**

| FROM | TO | DR'G RM'R CORE'C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 13300 | 152 | 50 | 152 | |

**REDUCED PUMP SPEED**

13300 @ 50 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

**DRILLER SIGNATURE**

Dave Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 04:00 | 4 | 13 |
| 04:00 | 04:30 | 1/2 | 6 |
| 04:30 | 05:00 | 1/2 | 13 |
| 05:00 | 05:15 | 1/4 | 6 |
| 05:15 | 08:00 | 2 3/4 | 13 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Circulate. Wait on Cement
R.I.H., Tag Plug #2 @ 3300.70m
Set 8000 DAN Down. Pulled 6000 DAN over string wt. up.
Circulate. Wait on orders
Pull up TO Casing
Circulate. Wait on Orders

NOTES: Crown Saver Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 115000 DAN | | 11797 KPA |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | | GP |
| DERRICKMAN | | Mike Wotrich | 8 | | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | | WB |
| FLOORMAN | | Richard Czarnecki | 8 | | | RC |
| FLOORMAN | | Tim Byers | 8 | | | TB |
| LEASEMAN | | Jesse Lessard. | 8 | | | JL |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**DAY TOUR**

**METRES DRILLED**

| FROM | TO | DR'G RM'R CORE'C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 13300 | 152 | 50 | 152 | |

**REDUCED PUMP SPEED**

13300 @ 50 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 12:00 | 4 | 13 |
| 12:00 | 12:45 | 3/4 | 7 |
| 12:45 | 13:15 | 1/2 | 6 |
| 13:15 | 14:15 | 1 | 12 |
| 14:15 | 16:00 | 1 3/4 | 5 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Circulate Wait on orders
Transfer 37m³ mud for displacement
R.I.H. to 3299m
Prepare to Cement Pressured up
Break Circ. W/Rig Pump & work pipe
PLUG #3 3300.7m to 3255m. 10% Excess
1.9m³ 2.53t. THERMAL 40
.7% CFR & .9% CFL-2 & .15% LTR
& .5% HTR. Plug Down 1952 hours

NOTES: Crown Saver Fastline Clamp Deadline Anchor

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

**DAY TOUR 08:00 TO 16:00**

| CREW | SOC. INS. NO. | NAME | HRS | | INJURIES YES | NO |
|---|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | | AL |
| DERRICKMAN | | Conrad Antle | 8 | | | CA |
| MOTORMAN | | Mike Guerin | 8 | | | |
| FLOORMAN | | Adam Murray | 8 | | | |
| FLOORMAN | | Chyten Cameron | 8 | | | |
| LEASEMAN | | Moise Punch | 8 | | | MP |
| Lease | | Barry Bertrand | 8 | | | |
| RIG WATCH | | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 89mm DP | | 94.13 |
| 1 | X10 | | .35 |
| 30 | JTS 127mm E2 DP | | 288.35 |
| 9 | H.W. | | 81.94 |
| 141 | JTS 127 E2 | | 1350.55 |
| 38 | JTS 127 E3 | | 1316.97 |
| 1 | JT SS-95 | | 19.40 |
| | TOTAL | | 3151.69 |

D.P. / | STANDS | m
D.P. | SINGLES | m
Stuck Up | KELLY DOWN | 5.69 m
TOTAL | 3146 m
WT. OF DC 1000 daN
WT. OF STRING 105000 1000 daN

**BIT RECORD**

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

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

**HOLE CONDITION**

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

**MUD RECORD**

| MUD TYPE | ☑ WATER BASED | ☐ OIL BASED | |
|---|---|---|---|
| TIME | 07:30 | 10:30 | |
| DENSITY kg/m³ | 1045 | 1045 | |
| FUNNEL VIS. - (S/L) | 40 | 41 | |
| W.L. (cm³) | 8.0 | | |
| pH | 10.5 | 10.5 | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| CalCarb 325 | 5 SX |
| STARPAC+ | 12 SX |
| DRISPAC REG | 4 SX |
| XANVIS | 4 SX |
| Biocide | 4 Pails. |

**SOLIDS CONTROL**

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

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

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

**EVENING TOUR**

**METRES DRILLED**

| FROM | TO | DR'G RM'R CORE'C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 4200 | 152 | 67 | | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

**DRILLER SIGNATURE**

Ron Cadieux

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 19:00 | 3 | 5 |
| 19:00 | 19:15 | 1/4 | 21 |
| 19:15 | 20:15 | 1 | 12 |
| 20:15 | 21:30 | 1 1/4 | 5 |
| 21:30 | 22:00 | 1/2 | 13 |
| 22:00 | 24:00 | 2 | 13 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Circulate & condition mud
Hold safety meeting prior to cementing
Head up & spot cement Plug. POH TO 3253
Circulate bottoms up W.O.E
POH TO 3146m W.O.E
Circulate Wait on Cement W.O.E.

NOTES: Crown Saver, deadline anchor, fast line clamp

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | Cementing | 11797 |

**EVENING TOUR 16:00 TO 24:00**

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

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125231

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

OPERATOR: Canadian Forest O.L | CONTRACTOR: Akita Drilling LTD

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

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

**DAILY CHECKS** (OPR. / R.M.)

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

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

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 14 |

RIG NO. 58

**FUEL @ 8:00**

RIG 1.45 | BOILER

**WEATHER**

TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 220.46 | 67.94 | BT&C | L-80 | 208 | 3148.18 | 6.60 | 3147 |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 178 | 175.65 | DC | 57.15 | 178 | 5 1/2 FH | 17 | F-1000 | Emsco | 254 |
| 127 | 74.4 | HW | 76 | 165 | 4 1/2 IF | 17 | | | |
| | 29.07 | E2 | 108 | 162 | | 218 | F-1000 | Emsco | 254 |
| | 38.10 | E3 | 89 | 162 | 1 | 138 | | | |
| | | 55-95 | 89 | 164 | | 55 | | | |

REVISED MARCH 1996

125231

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al FLETT N61 | YEAR: 99 | MONTH: 09 | DAY: 14

OPERATOR: Canadian Forest oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: DAve Lauck | RIG NO.: 58

PROVINCE: N.W.T. | CAMP X YES ☐ NO | RIG SAFETY DAYS: 1143

## TIME-HRS

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

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE. |
|---|---|---|---|---|---|
| NO. 2 TYPE | Derrick Derrick | TmJ-157153 | | | |
| SCREENS CHANGED ☐ YES ☒ NO | | AmJ-1937 | | | |
| TOP 50 | TOP 38 | | | | |
| MIDDLE | MIDDLE | | | | |
| BOTTOM | BOTTOM | Accum oil-.39 | | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D.mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 3 1/2 | DP | 94.13 |
| 1 | X10 | | .35 |
| 30 | JTS 5" E2 | DP | 288.35 |
| 9 | H.W. | | 81.94 |
| 141 | JTS E2 | DP | 1350.55 |
| 38 | JTS E3 | DP | 1316.97 |
| 26 | 55-95 | DP | 252.01 |
| | TOTAL= 3384.30 | | |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| | KELLYDOWN | | |
| | TOTAL | | |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | 112000 | | 1000 daN |

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM 7000 - 8000 Nm
FILL ON BOTTOM (m)

## MUD RECORD

| MUD TYPE ☒ WATER BASED ☐ OIL BASED | | | |
|---|---|---|---|
| TIME | 03:00 | 04:00 | 06:00 |
| DENSITY kg/m³ | 1040 | 1040 | 1040 |
| FUNNEL VIS. - (S/L) | 42 | 42 | 42 |
| W.L. (cm³) | 8.5 | 8.5 | 8.5 |
| pH | 10.5 | 10.5 | 10.5 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Calcarb | 62 SX |
| Xanvis | 3 SX |
| StarPac | 5 SX |

**SOLIDS CONTROL**

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

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

## MORNING TOUR

### METRES DRILLED

| FROM | TO | DRLG RM.H. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | 10 | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 13000 | 152 | 50 | 152 | |

**REDUCED PUMP SPEED**: 1300 @ 50 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3380 | | |

DRILLER SIGNATURE: Gary Patrick

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 05:30 | 5 1/2 | 13 | Circulate & Build Volume, Wait on Cement |
| 05:30 | 05:45 | 1/4 | 6 | R.I.H. and Tag plug at 3328.58m |
| | | | | Set 6000 DAN Down, Pulled 10000 DAN over string WT. up. |
| 05:45 | 08:00 | 2 1/4 | 12 | Circulate @ 3325 m. Wait on orders |

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

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 1282000 DAN | | 11951 KPA |

### MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | WB |
| FLOORMAN | | Richard Czarnecki | 8 | | RC |
| FLOORMAN | | Tim Byers | 8 | | TB |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

### METRES DRILLED

| FROM | TO | DRLG RM.H. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | 10 | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 13000 | 152 | 50 | 152 | |

**REDUCED PUMP SPEED**: 1300 @ 50 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3380 | | |

DRILLER SIGNATURE: Gary Patrick

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 09:00 | 1 | 22 | Lay Down 6 stds & pull up into casing |
| 09:00 | 15:15 | 6 1/4 | 12 | Circulate (Wait on orders) |
| 15:15 | 15:45 | 1/2 | 6 | R.I.H. to 3326 m |
| 15:45 | 16:00 | 1/4 | 7 | RIS function Annular 18 sec |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 115000 DAN | | 11752 |

### DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | AL |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Guerin | 12 | | MG |
| FLOORMAN | | Adam Murray | 12 | | AM |
| FLOORMAN | | Clayton Cameron | 12 | | CC |
| LEASEMAN | | Moise Punch | 12 | | MP |
| Lease | | Barry Bertrand | 12 | | BB |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

### METRES DRILLED

| FROM | TO | DRLG RM.H. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | 10 | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 16000 | 152 | 60 | 152 | |

**REDUCED PUMP SPEED**: 1300 @ 60 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3380 | | |

DRILLER SIGNATURE: Gary Patrick

### TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 17:45 | 1 3/4 | 12 | Prepare to Cement |
| 17:45 | 18:00 | 1/4 | 21 | Held pre job Safety meeting |
| 18:00 | 19:00 | 1 | 13 | Cement Plug #2 Displace with 26.7 m³ |
| 19:00 | 19:15 | 1/4 | 6 | Pull up to 3288 m |
| 19:15 | 22:00 | 2 3/4 | 13 | Circulate Bottoms up, W.O.C. |
| 22:00 | 22:30 | 1/2 | 6 | Flow, Pull up TO Casing |
| 22:30 | 22:45 | 1/4 | 7 | RIS Function, Upper pipe Rams 6 Secds √RSPD |
| 22:45 | 24:00 | 1 1/4 | 13 | Circulate & Wait on Cement. |

Plug #2 - 2.13 t Thermal 40 + 0.7% CFR3 0.9% CFL-27 1.5% LTR + 0.5% HTR (1.6 M³ Slurry @ 1285 kg/m³) @ 3322 ft 3290 M. In Place @ 1242 Hr. MWP

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 115000 DAN | | 11797 KPA |

### EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bethel | 4 | | WB |
| FLOORMAN | | Richard Czarnecki | 4 | | RC |
| FLOORMAN | | Tim Byers | 4 | | TB |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D.mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 3 1/2 | DP | 94.13 |
| 1 | X10 | | .35 |
| 30 | JTS 5" E2 | DP | 288.35 |
| 9 | H.W. | | 81.94 |
| 141 | JTS E2 | DP | 1350.55 |
| 38 | JTS E3 | DP | 1316.97 |
| 26 | JTS 55-95 | DP | 193.77 |
| | TOTAL: 3326.06 | | |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| | KELLYDOWN | | |
| | TOTAL | | |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | 110000 | | 1000 daN |

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM 7000 - 8000 NM
FILL ON BOTTOM (m)

## MUD RECORD

| MUD TYPE ☒ WATER BASED ☐ OIL BASED | | |
|---|---|---|
| TIME | 07:30 | 13:00 |
| DENSITY kg/m³ | 1045 | 1045 |
| FUNNEL VIS. - (S/L) | 42 | 43 |
| W.L. (cm³) | 8.5 | 8.5 |
| pH | 10.5 | 11.0 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| CaCarb 25 | 7 SX |
| Xanvis | 1 SX |
| Starpak | 2 SX |

**SOLIDS CONTROL**

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

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

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D.mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 3 1/2 | DP | 94.13 |
| 1 | X10 | | .35 |
| 30 | JTS 5" E2 | DP | 288.35 |
| 9 | H.W. | | 81.94 |
| 141 | JTS E2 | DP | 1350.55 |
| 38 | JTS E3 | DP | 1316.97 |
| 26 | JTS 55-95 | DP | 193.77 |
| | TOTAL: 3326.06 | | |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| | KELLYDOWN | | |
| | TOTAL | | |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | 110000 | | 1000 daN |

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG 5000 ↑ 4000 ↓
TORQUE AT BOTTOM 7000 - 8000 NM
FILL ON BOTTOM (m)

## MUD RECORD

| MUD TYPE ☒ WATER BASED ☐ OIL BASED | | |
|---|---|---|
| TIME | 21:00 | 24:00 |
| DENSITY kg/m³ | 1045 | 1045 |
| FUNNEL VIS. - (S/L) | 42 | 42 |
| W.L. (cm³) | 7.5 | 7.5 |
| pH | 10.5 | 10.5 |
| PVT. | 59.4 | 59.1 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|

**SOLIDS CONTROL**

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

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

FOLD HERE →

125230

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

**DAILY CHECKS** (OPR. / R.M.)
(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial
(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 13 |

RIG NO.: 58

**FUEL @ 8:00**

RIG: 1.63 BOILER:

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

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | 244.5 | 220.4 | 69.94 | BT&C | L-80 | 228 | 3148.18 | 6.60 | 3147 |
| TUBING OR LINER | | | | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS kg/m | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 178 | 174.8 | DC | 58 | 178 | 5 1/2 FH | 24 | | | |
| 127 | 74.4 | HW | 74 | 165 | 4 1/2 IF | 17 | F-1000 | Emsco | 254 |
| | 29.02 | E2 | 108 | 162 | | 218 | F-1000 | Emsco | 254 |
| | 38.10 | E3 | 89 | 162 | 1 | 138 | | | |
| | | 55.95 | 89 | 169 | | 55 | | | |

REVISED MARCH 1996

125230

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| Canadian Forest etal Flett N61 | 99 | 09 | 13 |
| OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD | | |
| RIG MANAGER: Dave Lauck | RIG NO.: 58 | | |
| PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1141 | |

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 OR WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | 1/4 | 3 1/2 | | | 3/4 | | | | | | | | | | | | P/U P.Pe | 1 1/2 | Flowline H2S Drill | | |
| DAY | | | | | | 1/4 | | | | | | | | | | | | | | | | | 1 1/2 | 1/4 | | |
| EVE. | | | | | | 5 1/2 | 1/4 | 1/4 | | | | | 1 3/4 | | | | | | | | | 1/4 | | | | |
| TOTAL | | | | | | 8 1/2 | 3 3/4 | 1/4 | | 3/4 | | | 1 3/4 | | | | | | | | | 1/4 | 1 1/2 | 2 | 1/4 | |

**SHALE SHAKER(S)**

| | | |
|---|---|---|
| TYPE | Derrick | Derrick |
| SCREENS CHANGED | ☐ YES ☒ NO | |
| TOP | 50 | 38 |
| MIDDLE | | |
| BOTTOM | | |

**RENTALS/SERVICES**

Tmr-156122
Amr-906
Accum oil-.39

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 3½" D.P. | | 94.13 |
| 1 | X10 | | .35 |
| 30 | JTS 5" E2 D.P. | | 288.35 |
| 9 | H.W. | | 81.94 |
| 141 | E2 DP | | 1350.55 |
| 138 | E3 DP | | 1316.97 |
| 26 | 55.95 DP | | 252.01 |
| | TOTAL = 3384.30 | | |
| | D.P. STANDS | | |
| | D.P. SINGLES | | |
| | KELLY DOWN | | |
| | TOTAL | | |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | 112000 | | 1000 daN |

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG 3000↑ 3000↓
TORQUE AT BOTTOM
FILL ON BOTTOM (m) 0

## MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; IADC CODE; FUNNEL VIS. - (S/L); MFG.; W.L. (cm³); TYPE; pH; SERIAL NO.

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|

**SOLIDS CONTROL**

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

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

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

## METRES DRILLED

| FROM | TO | DRLG RMR CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

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

**REDUCED PUMP SPEED**: 1400 @ 50 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 01:30 | 1½ | 22 | Rig up & pick up 3½" pipe |
| 01:30 | 04:15 | 2¾ | 6 | R.I.H. Flow @ 1000 m, 2000 m, 3100 m |
| 04:15 | 05:00 | ¾ | 9 | Slip & cut 20 m of Drill line. |
| 05:00 | 05:45 | ¾ | 6 | Continue R.I.H., Pick up 6 55.95 D.P. |
| 05:45 | 07:30 | 1¾ | 5 | Tag Bottom, Circulate |
| 07:30 | 08:00 | ½ | 23 | Clean out Blockage in Flowline |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 115000 DAN | | |

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | ☒ |
| DERRICKMAN | | Mike Wotrich | 8 | | ☒ |
| MOTORMAN | | Wendell Bethel | 8 | | ☒ |
| FLOORMAN | | Richard Czarnecki | 8 | | ☒ |
| FLOORMAN | | Tim Byers | 8 | | ☒ |
| LEASEMAN | | Jesse Lessard | 8 | | ☒ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

---

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 3½" D.P. | | 94.13 |
| 1 | X10 | | .35 |
| 30 | JTS 5" E2 D.P. | | 288.35 |
| 9 | H.W. | | 81.94 |
| 141 | E2 DP | | 1350.55 |
| 138 | E3 DP | | 1316.97 |
| 26 | 55.95 DP | | 252.01 |
| | TOTAL = 3384.30 | | |
| | D.P. STANDS | | |
| | D.P. SINGLES | | |
| | KELLY DOWN | | |
| | TOTAL | | |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | 112000 | | 1000 daN |

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG 4000↑ 3000↓
TORQUE AT BOTTOM 4000 - 3000 Nm
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 07:00 | 13:00 | 16:30 |
| DENSITY kg/m³ | 1040 | 1045 | 1045 |
| FUNNEL VIS. - (S/L) | 50 | 44 | 44 |
| W.L. (cm³) | 9.5 | | |
| pH | 9.5 | 9.0 | 9.5 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Kanvis | 6 sx |
| CMC Reb 325 | 15 sx |
| Caustic | 3 sx |
| Barpak | 5 sx |
| Defoamer | 2 Pails |

**SOLIDS CONTROL**

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

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

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

## METRES DRILLED

| FROM | TO | DRLG RMR CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 2800 | 152 | 87 | 152 | |

**REDUCED PUMP SPEED**: 1600 @ 50 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 09:30 | 1½ | 23 | Clean out Blockage in Flowline |
| 09:30 | 15:00 | 5½ | 5 | Circulate & Condition mud |
| 15:00 | 15:15 | ¼ | 24 | Held 11"s Drill well secure 70 sec. |
| 15:15 | 16:00 | ¾ | 5 | Circulate & Condition mud |

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 116000 DAN | | 11952 KPA |

## DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | ☒ |
| DERRICKMAN | | Conrad Antle | 12 | | ☒ |
| MOTORMAN | | Mike Guerin | 12 | | ☒ |
| FLOORMAN | | Adam Murray | 12 | | ☒ |
| FLOORMAN | | Clayton Cameron | 12 | | ☒ |
| LEASEMAN | | Morse Punch | 12 | | ☒ |
| | | Barry Bertrand | 12 | | ☒ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

---

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 10 | JTS 3½" D.P. | | 94.13 |
| 1 | X10 | | .35 |
| 30 | JTS 5" E2 D.P. | | 288.35 |
| 9 | H.W. | | 81.94 |
| 141 | E3 D.P. | | 1350.55 |
| 138 | E3 D.P. | | 1316.97 |
| 26 | 55.95 D.P. | | 252.01 |
| | TOTAL = 3384.30 | | |
| | D.P. STANDS | | |
| | D.P. SINGLES | | |
| | KELLY DOWN | | |
| | TOTAL | | |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | 112000 | | 1000 daN |

## BIT RECORD

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

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

**HOLE CONDITION**

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

TIME; DENSITY kg/m³; FUNNEL VIS. - (S/L); MFG.; W.L. (cm³); TYPE; pH; SERIAL NO.

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|

**SOLIDS CONTROL**

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

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

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

## METRES DRILLED

| FROM | TO | DRLG RMR CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 2000 | | | | 80 |

**REDUCED PUMP SPEED**: 1400 @ @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 17:45 | 1¾ | 5 | Circulate & Condition Mud |
| 17:45 | 18:00 | ¼ | 7 | K/S Function kemete choke |
| 18:00 | 19:00 | 1 | 5 | Circulate & Condition mud |
| 19:00 | 20:00 | 1 | 12 | Prepare TO Cement. |
| 20:00 | 20:15 | ¼ | 21 | Held Safety meeting W/Crew & SanJel |
| 20:15 | 21:00 | ¾ | 12 | Cement First Plug |
| 21:00 | 23:45 | 2¾ | 5 | Pull 2 stands & Circulate |
| 23:45 | 24:00 | ¼ | 6 | Pull up TO Casing. |

Plug #1 - 2323 M TO 3393 M 2.00 SG THERMAL 40 @ 1225 Kg/m³ (2 M³ Slurry) In Place @ 2103 Hr. 99/09/13.

## DETAILS OF OPERATION IN SEQUENCE AND REMARKS

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 120000 DAN | Cementing Plugs | 11951 KPA |

## EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | ☒ |
| DERRICKMAN | | Mike Wotrich | 4 | | ☒ |
| MOTORMAN | | Wendell Bethel | 4 | | ☒ |
| FLOORMAN | | Richard Czarnecki | 4 | | ☒ |
| FLOORMAN | | Tim Byers | 4 | | ☒ |
| LEASEMAN | | Jesse Lessard | 4 | | ☒ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125229

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

**DAILY CHECKS** (ORR. / R.M.)
(1) Daily Walk Around Inspection
(2) Detailed Inspection-Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Sick 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 | MONTH | DAY |
|---|---|---|
| 99 | 09 | 12 |

RIG NO. 58

**FUEL @ 8:00**: RIG 1.82 | BOILER

WEATHER: TEMPERATURE °C | CURRENT CONDITIONS | WIND DIRECTION | ROAD

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | 244.5 | 220.4 | 69.94 | BT&C | L-80 | 228 | 3148.18 | 6.60 | 3147 |
| TUBING OR LINER | | | | | | | | | |

| DC/OP: SIZE (m) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 178 | 194.0 | DC | 58 | 178 | 5 1/2 FH | 36 | | | |
| 127 | 74.4 | HW | 74 | 163 | 4 1/2 IF | 17 | F-1000 | EMSCO | 254 |
| | 59.02 | E | 108 | 163 | | 218 | F-1000 | Emsco | 254 |
| | 58.10 | E | 88 | 163 | | 138 | | | |
| | | E | 88 | 164 | | 55 | | | |

REVISED MARCH 1996

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125229

BOARD COPY

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al FLETT N61 | YEAR 99 | MONTH 09 | DAY 12

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: DAVe Lauck | RIG NO.: 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1140

**TIME-HRS**

| CODE NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | OPER. | RIG UP & TEAR DOWN | DRILL ACTUAL | REAMING | CORING | COND. MUD & CIRC. | TRIPS | RIG SERVICE | REPAIR RIG | CUT OFF DRILL LINE | DEV. SURVEY | WIRE LINE LOGS | RUN CASE & CEMENT | WAIT ON CEMENT | NIPPLE UP B.O.P. | TEST B.O.P. | DRILL STEM TEST | PLUG BACK | SQUEEZE CEMENT | FISHING | DIR. WORK | SAFETY MTG. | | | | |
| MORN. | | | | | | | | | | | 7/4 | | | | | | | | | | | Flow ck | Lay Down DC, W.O.O. | | | |
| DAY | | | | | | | | | | | E | | | | | | | | | | | 1/4 | | | | |
| EVE. | | | | | | | | 1/2 | | | | | | | | | | | | | | | 3 | 4 1/2 | | |
| TOTAL | | | | | | | | 1/2 | | | B 3/4 | | | | | | | | | | | 1/4 | 3 | 4 1/2 | | |

**TOTALS**

| | |
|---|---|
| 8 | |
| 8 | |
| 8 | |
| 24 | |

**SHALE SHAKER(S)**: NO. 1 TYPE Derrick Derrick | SCREENS CHANGED ☐ YES ☒ NO | TOP 50 | MIDDLE | BOTTOM | TOP 38 | MIDDLE | BOTTOM

**RENTALS/SERVICES**: TMT - 154474; AMT - 8226; Accum a/c - 39

| | MORN | DAY | EVE |
|---|---|---|---|
| | | | |

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| D.P. | STANDS | | m |
| D.P. | SINGLES | | m |
| KELLY DOWN | | | m |
| TOTAL | | | m |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | | | 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | |
| SIZE (mm) | |
| IADC CODE | |
| MFG. | |
| TYPE | |
| SERIAL NO. | |
| JETS (mm) | |
| DEPTH OUT (m) | |
| DEPTH IN (m) | |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

**HOLE CONDITION**: HOLE DRAG | TORQUE AT BOTTOM | FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | |
| DENSITY kg/m³ | 1040 |
| FUNNEL VIS. - (S/L) | 49 |
| W.L. (cm³) | 9.0 |
| pH | 10.0 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| CalCARB | 56 SK |
| XANVIS | 3 SK |
| Drispack | 2 SK |
| Drispac L | 1 SK |
| Starpak | 5 SK |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

**METRES DRILLED**

| FROM | TO | DRLG RM.R. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 152 | | 152 | |

**REDUCED PUMP SPEED**: @ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 03:00 | 3 | 11 | Change out Logging Tool, Run in To Log Run #5 - EMI, On Bottom @ 01:00, Log Hole Pull out & Lay down EMI Tool. |
| 03:00 | 07:15 | 4 1/4 | 11 | make up Tools For Run #6 - SII MDA Sped. CNT, GR, Cal. Run in To log, On Bottom at 04:35 hrs, Log hole, Pull out, Lay Down Tools |
| 07:15 | 7:30 | 1/4 | 12 | Flow check, Monitor hole Volume |
| 7:30 | 8:00 | 1/2 | 11 | Wait on completion Fee to 17 VSP Log |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | 11951 KPA |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | WB |
| FLOORMAN | | Richard Czarnecki | 8 | | RC |
| FLOORMAN | | Tim Byers | 8 | | TB |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| Lease | | Robert Duntra | 8 | | RD |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT | CREW SAFETY DAYS

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | ALLAN LIKWOCH | 12 | | AL |
| DERRICKMAN | | CONRAD ANTLE | 12 | | CA |
| MOTORMAN | | MIKE GUERIN | 12 | | MG |
| FLOORMAN | | ADAM MURRAY | 12 | | AM |
| FLOORMAN | | CLAYTEN CAMERON | 12 | | CC |
| LEASEMAN | | MOISE FUNCH | 12 | | MF |
| | | BARRY BERTRAND | 12 | | BB |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT | CREW SAFETY DAYS

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bethel | 4 | | WB |
| FLOORMAN | | Richard Czarnecki | 4 | | RC |
| FLOORMAN | | Tim Byers | 4 | | TB |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| Lease | | Robert Duntra | QUIT | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT | CREW SAFETY DAYS


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


**DAY TOUR**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 3383 | | | | |
| 8:00 | 10:00 | 2 | 11 | Wait for VSP LOG |
| 10:00 | 16:00 | 6 | 11 | Tie Logging Tool Run in to log, log hole Run #7 VSP Pulled Out Test, Run in to log ON Bottom @ 14:30 Pull out, Rig out loggers |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | 11951 KPA |


DRILLING ASSEMBLY (At End of Tour) | BIT RECORD | MUD RECORD | METRES DRILLED | TIME LOG | DETAILS OF OPERATION IN SEQUENCE AND REMARKS


**EVENING TOUR**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 3383 | | | | |
| 16:00 | 16:15 | 1/4 | 7 | R/S, Function Blind Rams & Sec. |
| 16:15 | 20:45 | 4 1/2 | 24 | Wait on Orders |
| 20:45 | 23:45 | 3 | 23 | Run in and lay down 178mm D.C.'s |
| 23:45 | 24:00 | 1/4 | 7 | R/S, Function Blind rams & Sec c/s. |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | 11951 KPA |

125228

FOLD HERE →

LICENCE NO.: 1863 | WELL NAME AND NO.: Canadian Forest et al FLETT N61

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

SURFACE LOCATION: W6,1-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: D. Murray Kaycee | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Louck

**DAILY CHECKS** — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Slick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 11 |

RIG NO. 58

**FUEL @ 8:00**

RIG 1.32 | BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 220.4 | 69.94 | BT&C | L80 | 228 | 3148.18 | 6.60 | 3147 |

| DC/DP SIZE (mm) | LINEAR MASS kg/m | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 178 | 127.8 | DC | 50 | 254 | 5 1/2 FH | 20 | | | |
| 127 | 74.4 | HW | 74 | 165 | 4 1/2 IF | 17 | F-1000 | Emsco | 254 |
| 1 | 29.02 | DS | 108 | 162 | 1 | 218 | F-1000 | Emsco | 254 |
| | 58.10 | DS | 89 | 162 | | 138 | | | |
| | 53.95 | DS | 89 | 164 | | 55 | | | |

REVISED MARCH 1996

125228

BOARD COPY

CAODC — APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al FLETT N61 | YEAR 99 | MONTH 09 | DAY 11

OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD

RIG MANAGER: Dave Louck | RIG NO. 58

PROVINCE: N.W.T. | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1139

## TIME-HRS

| CODE NO. | 1 RIG UP & TEAR DOWN | 2 DRILL ACTUAL | 3 REAMING | 4 CORING | 5 COND. MUD & CIRC. | 6 TRIPS | 7 RIG SERVICE | 8 REPAIR RIG | 9 CUT OFF DRILL LINE | 10 DEV. SURVEY | 11 WIRE LINE LOGS | 12 RUN CASE & CEMENT | 13 WAIT ON CEMENT | 14 NIPPLE UP B.O.P. | 15 TEST B.O.P. | 16 DRILL STEM TEST | 17 PLUG BACK | 18 SQUEEZE CEMENT | 19 FISHING | 20 DIR. WORK | 21 SAFETY MTG. | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OPER. | | | | | | | | | | | | | | | | | | | | | Flower | | | | | |
| MORN. | | | | | | 1 1/4 | 1/4 | | | | 6 1/2 | | | | | | | | | | | | | | | |
| DAY | | | | | 3 1/4 | 11 1/2 | | | | | | | | | | | | | | | 1/4 | | | | | |
| EVE. | | | | | 5 3/4 | | | | | 2 1/4 | | | | | | | | | | | | | | | | |
| TOTAL | | | | | 3 1/4 | 11 1/2 | 1/4 | | | 8 3/4 | | | | | | | | | | | 1/4 | | | | | |

TOTALS: 8 / 8 / 8 / 24

**SHALE SHAKER(S)**

| NO. | TYPE | | |
|---|---|---|---|
| 2 | Derrick | Derrick | |
| SCREENS CHANGED | ☐ YES ☒ NO | | |
| TOP | 50 | TOP | 38 |
| MIDDLE | | MIDDLE | |
| BOTTOM | | BOTTOM | |

**RENTALS/SERVICES**

TMJ - 154375
AmJ - 8127
Accum oil - 39

| | MORN. | DAY | EVE. |
|---|---|---|---|
| | | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| | | | .25 |
| 1 | Bit sub | | 1.22 |
| 1 | 178 DC | | 9.53 |
| 1 | Shock Sub | | 3.17 |
| 2 | 178 DC | | 19.06 |
| 1 | Jar | | 5.44 |
| 12 | 178 DC | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | H.W. | | 81.94 |
| | | BHA: | 336.56 |

| | | | m |
|---|---|---|---|
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| Stick up | KELLY DOWN | | |
| | TOTAL | | |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | | | 1000 daN |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 3DRR |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | REED |
| TYPE | EHP53A |
| SERIAL NO. | TC1149 |
| JETS (mm) | OPEN |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3383 |
| TOTAL METRES DRILLED (m) | Clean out |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | |
| DENSITY kg/m³ | |
| FUNNEL VIS. - (S/L) | |
| W.L. (cm³) | |
| pH | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Cal CARB | 20 SX |
| XANVIS | 1 SX |
| Dr. spar | 1 SX |
| Sturpack | 5 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## MORNING TOUR

**METRES DRILLED**

| FROM | TO | DR-O RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| Choke | 152 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

Manifold

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 02:00 | | 11 |
| 02:00 | 06:30 | | 11 |
| 06:30 | 06:45 | 1/4 | 7 |
| 06:45 | 8:00 | 1 1/4 | 6 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Log with Computalog-
Run #2 - STI, MDA, SPED, CNT, GR, CAL
Logs not Working, Trouble shoot Problem, P.O.O.H.
Change out Tools, Run in Hole, Run #3
Start Logging hole @ 03:25 hrs.
Rig out loggers
R/S Function Blind Rams 6 sec c/s
R.I.H. to 236m Flower

NOTES: √Crown Saver Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | 11951 KPA |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | WB |
| FLOORMAN | | Richard Czarnecki | 8 | | RC |
| FLOORMAN | | Tim Byers | 8 | | TB |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| | | Robert Duntra | 8 | | RD |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**METRES DRILLED**

| FROM | TO | DR-O RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | 11 | 1 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 3650 | 152 | 67 | 152 | |

**REDUCED PUMP SPEED**

1460 @ 45 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 8:00 | 9:00 | 1 | 6 |
| 9:00 | 9:15 | 1/4 | 5 |
| 9:15 | 10:30 | 1 1/4 | 6 |
| 10:30 | 10:45 | 1/4 | 5 |
| 10:45 | 12:30 | 1 3/4 | 6 |
| 12:30 | | | 5 |
| | 15:15 | 2 3/4 | |
| 15:15 | 15:30 | 1/4 | 22 |
| 15:30 | 16:00 | 1/2 | 6 |
| | | | |
| | | | |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

R.I.H. F/236m - 1001m Flow ✓
Fill pipe & Break Circulation @ 1001m
R.I.H. F/1001m - 2000m Flower
Fill pipe & Break Circulation @ 2000m
R.I.H. F/2000m - 3354m Bridge @ 3354m
Wash & Ream 3353m - 3383m
Work pipe f/3347m - 3383m
Flow check
TOOH Flow ✓ 5 stds
LAY Down 2 Singles of 5 1/2" pipe

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | |

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lichoch | 12 | | AL |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Guerin | 12 | | MG |
| FLOORMAN | | Adam Murray | 12 | | AM |
| FLOORMAN | | Clayton Cameron | 12 | | CC |
| LEASEMAN | | Marc Punch | 12 | | MP |
| | | Barry Bertrand | 12 | | BB |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**METRES DRILLED**

| FROM | TO | DR-O RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| Choke | 152 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

Manifold

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE: Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| Kick | 21:45 | 5 3/4 | 6 |
| 21:45 | 22:45 | 1 | 11 |
| 22:45 | 24:00 | 1 1/4 | 11 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

R.O.P.H. Flow ✓ 10, 5 5, H.W., out of Hole.
Rig up loggers, Run in Hole with logging Tools
Run #4 - EMI, Logs on Bottom @ 22:45 hrs
Logging Tool not Working, Pull out To change Tools.

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.
Held Gumbo Fire Drill

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | 11797 KPA |

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bethel | 4 | | WB |
| FLOORMAN | | Richard Czarnecki | 4 | | RC |
| FLOORMAN | | Tim Byers | 4 | | TB |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| Lease | | Robert Duntra | 4 | | RD |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125227

LICENCE NO.: 1863
WELL NAME AND NO.: Canadian Forest et al Flett N61
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: N61-6040-12330
UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE: [signature]
SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Louck

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial |
| (2) Detailed Inspection-Weekly (using checklist) | Initial | Initial |
| (3) H2S Signs Posted (if required) | Initial | Initial |
| (4) Well License & Stick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually inspect BOP's - Flarelines & Degasser Lines | Initial | Initial |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | Initial | |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | Initial | |
| (3) Mast Inspection Before Raising or Lowering | Initial | |
| (4) Crown Saver Checked | Initial | |
| (5) Motor Kills checked | Initial | |

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 10 |

RIG NO. 58

FUEL @ 8:00
RIG .90 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | 244.5 | 216.8 | 59.62 | BT&C | L80 | 228 | 3148.18 | 6.60 | 3147 |
| TUBING OR LINER | | 220.4 | 69.94 | | | | | | |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 178 | 179.10 | DC | 57.0 | 178 | 5½FH | 109 | | | |
| 127 | 74.4 | HW | 74 | 165 | 4½IF | 17 | F-1000 | Emsco | 254 |
| | 29.03 | E2 | 108 | 162 | | 218 | F-1000 | Emsco | 254 |
| | 38.10 | E2 | 89 | 162 | | 138 | | | |
| | 55.95 | E2 | 89 | 164 | | 55 | | | |

REVISED MARCH 1996

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

125227

BOARD COPY

# DRILLING CREW PAYROLL DATA

NV

WELL NAME & NO.: Canadian Forest et al Flett
YEAR: 99 MONTH: 09 DAY: 10
OPERATOR: Canadian Forest Oil
CONTRACTOR: AKita Drilling LTD
RIG MANAGER: Dave Louck
RIG NO.: 58
PROVINCE: N.W.T.
CAMP X YES ☐ NO
RIG SAFETY DAYS: 1138

## TIME-HRS

| CODE NO. | 1 OPER. | 2 RIG RE-& TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & TRIPS | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | 3½ | ½ | ¼ | | | | | | | | | | | | | | Flow ✓ | 1½ | Bot Drill | ¼ | |
| DAY | | | | | | 4 | 7½ | | | | | | | | | | | | | | | | | | | |
| EVE. | | | | | | | 2 | | | | | 6 | | | | | | | | | | | | | | |
| TOTAL | | | | | | 6 | 10 | ¼ | | | | 6 | | | | | | | | | | 1½ | 1¼ | | | |

**TOTALS**

| | SHALE SHAKER(S) | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| 8 | NO. TYPE: 1 Derrick Derrick | TMJ-150600 | | | |
| 8 | SCREENS CHANGED ☐ YES X NO | TMJ-4352 | | | |
| 8 | TOP 50 TOP 38 | | | | |
| 24 | MIDDLE MIDDLE | | | | |
| | BOTTOM BOTTOM | Accum oil-.40 | | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D.mm | LENGTH |
|---|---|---|---|
| | | | .25 m |
| 1 | B.I.T Sub | | 1.32 m |
| 1 | 178 DC | | 9.53 m |
| 1 | Stock Sub | | 3.17 m |
| 2 | 178 DC | | 19.06 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | BHA=236.56 m | | |
| 109 | D.P. | STANDS | m |
| XX | D.P. | SINGLES | 3149.66 m |
| Stick up KELLYDOWN | | | 2.23 m |
| | TOTAL | | B383.99 m |
| WT. OF DC | 92000 | | 1000 daN |
| WT. OF STRING | 179000 | | 1000 daN |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 4D RR |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | REED |
| TYPE | EHP53A |
| SERIAL NO. | TC1199 |
| JETS (mm) | OPEN |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3383 |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: T1 T2 MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

## HOLE CONDITION

HOLE DRAG 6000 ↑ 6000 ↓
TORQUE AT BOTTOM 8500 - 10000 Nm
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | | |
|---|---|---|
| TIME | 02:00 | 03:00 |
| DENSITY kg/m³ | 1030 | 1030 |
| FUNNEL VIS. - (S/L) | 44 | 49 |
| W.L. (cm³) | 8.8 | 8.8 |
| pH | 10.0 | 10.0 |
| PVT m³ | | 71.2 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Starpak | 10 SX |
| XANVIS | 7 SX |
| Caustic | 3 SX |
| Ultraseal | 5 SX |
| MICA | 5 SX |
| CaLCARB | 56 SX |
| Glass Rock | 12 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRLG REAM CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | 10 | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 3500 | 152 | | 152 | 90 |

REDUCED PUMP SPEED: 1200 @ @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE: [signature]

MORNING TOUR

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 05:00 | 5 | 5 | Circulate and Condition mud, monitor Hole |
| | | | | Spot L.C.M. Pill on Bottom, Hole Taking 2m³/hr |
| 05:00 | 05:30 | ½ | 6 | P.O.O.H. TO 3129m |
| 05:30 | 05:45 | ¼ | 7 | RIG Function Bottom Pipe Rams 6 sec c/s |
| 05:45 | 07:15 | 1½ | 22 | Flow ✓ monitor hole for losses. |
| 07:15 | 08:00 | ¾ | 5 | Circulate - Condition Mud & Monitor Hole |

NOTES: Crown Saver, Fastline Clamp, Deadline Anchor. Held Competency Training

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | | | 140000 DAN | Lock out Policy | 12359 KPA |

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bettael | 8 | | WB |
| FLOORMAN | | Richard Czarnecki | 8 | | RC |
| FLOORMAN | | Tim Byers | 8 | | TB |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| Lease | | Robert Duntra | 8 | | RD |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D.mm | LENGTH |
|---|---|---|---|
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | D.P. | STANDS | m |
| | D.P. | SINGLES | m |
| | KELLYDOWN | | m |
| | TOTAL | | m |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | | | 1000 daN |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 4D RR |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | REED |
| TYPE | EHP53A |
| SERIAL NO. | TC1199 |
| JETS (mm) | OPEN |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3383 |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: T1 T2 MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | 10:00 |
| DENSITY kg/m³ | 1040 |
| FUNNEL VIS. - (S/L) | 52 |
| W.L. (cm³) | 8.5 |
| pH | 9.5 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRLG REAM CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | | | | |

REDUCED PUMP SPEED: @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE: [signature]

DAY TOUR

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 8:00 | 8:15 | ¼ | 5 | Circ. Condition Mud & Monitor Volume |
| 8:15 | 9:00 | ¾ | 6 | RIH F/3124m - 3383m |
| 9:00 | 12:45 | 3¾ | 6 | Flow ✓ P.O.O.H. Flow 5, 10, 40 stds. |
| 12:45 | 13:00 | ¼ | 3 | Bot Drill while Tripping W/Hsecure 70 sec |
| 13:00 | 16:00 | 3 | 6 | Knobb Flow / 75" Std. |

NOTES: Crown Saver, Fastline Clamp, Deadline Anchor

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | | | | | |

## DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | AL |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Guerin | 12 | | MG |
| FLOORMAN | | Adam Murray | 12 | | AM |
| FLOORMAN | | Clayton Cameron | 12 | | CC |
| LEASEMAN | | Moise Punch | 12 | | MP |
| Lease | | Berry Bertrand | 12 | | BB |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D.mm | LENGTH |
|---|---|---|---|
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | | | m |
| | D.P. | STANDS | m |
| | D.P. | SINGLES | m |
| | KELLYDOWN | | m |
| | TOTAL | | m |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | | | 1000 daN |

## BIT RECORD

| | |
|---|---|
| BIT NO. | |
| SIZE (mm) | |
| IADC CODE | |
| MFG. | |
| TYPE | |
| SERIAL NO. | |
| JETS (mm) | |
| DEPTH OUT (m) | |
| DEPTH IN (m) | |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: T1 T2 MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | |
| DENSITY kg/m³ | |
| FUNNEL VIS. - (S/L) | |
| W.L. (cm³) | |
| pH | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| WATER | 105X |
| XANVIS | 5 SX |
| CELTUSEAL | 5 SX |
| STARPAC | 85X |
| GLASS PAC | 65X |
| BARAPAC SUPERLIG | 15X |
| CALCARB | 130 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRLG REAM CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 152 | | 152 | |

REDUCED PUMP SPEED: @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE: Gary Patrick

EVENING TOUR

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 18:00 | 2 | 6 | POOH Flow ✓ HWDP & out of Hole |
| 18:00 | 18:45 | ¾ | 11 | Rig in Computalog & PU Tools |
| 18:45 | | | | Run in w/ Log #1 STI, MDA, SPED, CNT, GR, Cal |
| | 20:00 | 1¼ | 11 | M.O.D. Bridged @ 3358. Pull out To Fix |
| 20:00 | | | | Wireline problems, Cut off 1200 m of Wireline |
| | 24:00 | 4 | 11 | Run #2, STI, MDA, SPED, CNT, GR, CAL |
| | | | | Logs @ 3358 m @ 23:15 hrs, Pull up To |
| | | | | 2600 m. Logs not Working, Troubleshoot problem |
| | | | | Changed 8" Butterfly Valve on #2 Suction Line. |
| | | | | Changed oil in Drawworks. |

NOTES: ✓ Crown Saver, Fastline Clamp, Deadline Anchor.

| HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | 11951 KPA |

## EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bettael | 4 | | WB |
| FLOORMAN | | Richard Czarnecki | 4 | | RC |
| FLOORMAN | | Tim Byers | 4 | | TB |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| Lease | | Robert Duntra | 4 | | RD |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125226

LICENCE NO.: 1863
WELL NAME AND NO.: Canadian Forest et al Flett N61
OPERATOR: Canadian Forest Oil
CONTRACTOR: Akita Drilling LTD
SURFACE LOCATION: N61-6040-18330
UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE: Murray Fogerson
SIGNATURE OF CONTRACTOR'S RIG MANAGER: Wayne Lauck

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial |
| (2) Detailed Inspection-Weekly (using checklist) | Initial | Initial |
| (3) H/S Signs Posted (if required) | Initial | Initial |
| (4) Well License & Stick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually inspect BOP's - Flarelines & Degasser Lines | Initial | Initial |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | | Initial |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | | Initial |
| (3) Mast Inspection Before Raising or Lowering | | Initial |
| (4) Crown Saver Checked | | Initial |
| (5) Motor Kills checked | | Initial |

YEAR 99 MONTH 09 DAY 09
RIG NO. 58
**FUEL @ 8:00** RIG 1.05 BOILER

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | 244.5 | 216.8 | 79.62 | BT&C | L80 | 228 | 3148.18 | 6.60 | 3147 |
| TUBING OR LINER | | 220.4 | 69.94 | | | | | | |

| | DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| | 178 | 177.80 | DC | 57 | 197 | 5 1/2 IF | 17 | | | |
| | 127 | 74.4 | HW | 74 | 165 | 4 1/2 IF | 17 | F-1000 | Emsco | 254 |
| | | 89.02 | E3 | 108 | 163 | | 218 | F-1000 | Emsco | 254 |
| | 1 | 58.18 | E3 | 84 | 163 | 1 | 138 | | | |
| | | | E3 | 95 | 169 | | 55 | | | |

REVISED MARCH 1996

125226

BOARD COPY

APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: Canadian Forest et al Flett N61 | YEAR 99 | MONTH 09 | DAY 09
OPERATOR: Canadian Forest Oil | CONTRACTOR: Akita Drilling LTD
RIG MANAGER: Dave Lauck | RIG NO. 58
PROVINCE: N.W.T. | CAMP X YES ☐ NO | RIG SAFETY DAYS: 1137

## TIME-HRS

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRLG. ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | 1 1/4 | 5 3/4 | 1/4 | | 3/4 | | | | | | | | | | | | | | | |
| DAY | | | | | | 7 3/4 | | 1/4 | | | | | | | | | | | | | | | | | |
| EVE. | | | | | | 6 1/2 | 1/2 | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | 15 1/2 | 7 1/4 | 1/2 | | 3/4 | | | | | | | | | | | | | | | |

TOTALS: 8 / 8 / 8 / 24

**SHALE SHAKER(S)** — NO. / TYPE: 2 Derrick Derrick
SCREENS CHANGED ☐ YES ☒ NO
TOP 50 TOP 38
MIDDLE 50 MIDDLE 38
BOTTOM 50 BOTTOM 38

**RENTALS/SERVICES** — MORN. / DAY / EVE.
TMJ-147668
AMJ-1420
Accum oil - 40

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | BIT | | .25 m |
| 1 | B.T. Sub | | 1.22 m |
| 1 | 178 DC | | 9.53 m |
| 1 | Shock Sub | | 3.17 m |
| 2 | 178 DC | | 19.06 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | BHA: ~~303.88~~ | | 236.56 m |
| 108 | D.P. | STANDS | m |
| XX | D.P. | SINGLES | 3120.56 m |
| Stickup | KELLY DOWN | | 0 m |
| | TOTAL | | 3357.12 m |
| WT. OF DC | | | 92000 1000 daN |
| WT. OF STRING | | | 129000 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 3 DRR |
| SIZE (mm) | 215.9 |
| IADC CODE | 537 X |
| MFG. | Reed |
| TYPE | EHP53A |
| SERIAL NO. | TC1149 |
| JETS (mm) | OPEN |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3383 |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: T1 / T0 / MDC / LOC / B / Gage / ODC / Reason Pulled / Total Run m/hr.

**HOLE CONDITION**
HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☒ WATER BASED ☐ OIL BASED
TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| MICA | 10 SX |
| Walnut F | 5 SX |
| Walnut C | 5 SX |
| Cal Carb-O | 5 SX |
| Gloss | 10 SX |
| Starpack | 5 SX |
| Drispac L | 1 SX |
| Drispac R | 2 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN / INTAKE DENSITY (kg/m ) / OVERFLOW DENSITY (kg/m ) / UNDERFLOW DENSITY (kg/m )
CENTRIFUGE: HOURS RUN / INTAKE DENSITY (kg/m ) / OVERFLOW DENSITY (kg/m ) / UNDERFLOW DENSITY (kg/m )

**METRES DRILLED**

| FROM | TO | DRLG RM.R. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) / S.P.M. | PUMP NO. 2 LINER SIZE (mm) / S.P.M.
152 | 152

**REDUCED PUMP SPEED** @ / @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE: Gary Patrick

MORNING TOUR

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 05:15 | 5 1/4 | 6 | make up B.T, R.I.H., Flow @ 1000m, 2000m, 3136m |
| 05:15 | 06:00 | 3/4 | 9 | Slip & cut 20m of Drill line |
| 06:00 | 06:15 | 1/4 | 7 | RIS, Function Annular, 18 sec cls. |
| 06:15 | 06:45 | 1/2 | 6 | Flow, R.I.H. to 3357m |
| 06:45 | 08:00 | 1 1/4 | 5 | Mix and Pump L.C.M. |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | 11951 KPA |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | GP |
| DERRICKMAN | | Mike Watrich | 8 | | MW |
| MOTORMAN | | Wendell Bethel | 8 | | WB |
| FLOORMAN | | Richard Czarnecki | 8 | | RC |
| FLOORMAN | | Tim Byers | 8 | | TB |
| LEASEMAN | | Jesse Lessard | 8 | | JL |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | BIT | | .25 m |
| 1 | BIT SUB | | 1.22 m |
| 1 | 178 DC | | 9.53 m |
| 1 | Shock SUB | | 3.17 m |
| 2 | 178 DC | | 19.06 m |
| 1 | JAR | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | BHA: | | 236.56 m |
| 106 | D.P. | STANDS | m |
| XX | D.P. | SINGLES | 3120.56 m |
| Stick | KELLY DOWN | | m |
| | TOTAL | | 3357.12 m |
| WT. OF DC | | | 92000 1000 daN |
| WT. OF STRING | | | 129000 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 4D KR |
| SIZE (mm) | 215.9 |
| IADC CODE | 537 X |
| MFG. | REED |
| TYPE | EHP53A |
| SERIAL NO. | TC1149 |
| JETS (mm) | OPEN |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3383 |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: T1 / T0 / MDC / LOC / B / Gage / ODC / Reason Pulled / Total Run m/hr.

**HOLE CONDITION**
HOLE DRAG: Good / Good
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☒ WATER BASED ☐ OIL BASED
TIME
DENSITY kg/m³
FUNNEL VIS. - (S/L)
W.L. (cm³)
pH

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| BARACARB | 60 SX |
| WALNUT | 60 SX |
| ULTRASEAL | 85 SX |
| 1/2 CARB O | 34 SX |
| MICA FINE | 11 25K |
| GLOSSHOCK | 34 SX |
| STARPAK | 2 SX |
| DRISPAC L | 1 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN / INTAKE DENSITY (kg/m ) / OVERFLOW DENSITY (kg/m ) / UNDERFLOW DENSITY (kg/m )
CENTRIFUGE: HOURS RUN / INTAKE DENSITY (kg/m ) / OVERFLOW DENSITY (kg/m ) / UNDERFLOW DENSITY (kg/m )

**METRES DRILLED**

| FROM | TO | DRLG RM.R. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) / S.P.M. | PUMP NO. 2 LINER SIZE (mm) / S.P.M.

**REDUCED PUMP SPEED** @ / @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE

DAY TOUR

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 0:800 | 09:00 | 1 | 5 | Displace LCM, fill with 2200 stks. |
| 09:00 | 12:00 | 3 | 5 | Mix LCM Pill #2, monitor Hole Volume |
| 12:00 | 13:00 | 1 | 5 | Pump LCM pill #2 & displace w/2900 stks |
| 13:00 | 15:45 | 2 3/4 | 5 | Mix LCM pill #3 monitor Hole Volume |
| 15:45 | 16:00 | 1/4 | 7 | RIS Function & note CHOKE 2 SEC. |

Pill #1 93 kg/m³ LCM 4.6Bm³/Hr = 2.8m³/Hr
Pill #2 142 Kg/m³ LCM 2.69 m³/Hr. - 1.6 m³/Hr.

NOTES: √ FLARE LINE 20-100
√ Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 6 | | | 132000 DAN | | |

DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 12 | | AL |
| DERRICKMAN | | Conrad Antle | 12 | | CA |
| MOTORMAN | | Mike Guerin | 12 | | MG |
| FLOORMAN | | Adam Murray | 12 | | AM |
| FLOORMAN | | Clayton Cameron | 12 | | CC |
| LEASEMAN | | Barry Bedford | 12 | | BB |
| Lease | | Moise Plinch | 8 | | MP |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | BIT | | .25 m |
| 1 | BIT SUB | | 1.22 m |
| 1 | 178 DC | | 9.53 m |
| 1 | Shock SUB | | 3.17 m |
| 2 | 178 DC | | 19.06 m |
| 1 | JAR | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | BHA: | | 236.56 m |
| 106 | D.P. | STANDS | m |
| XX | D.P. | SINGLES | 3120.56 m |
| Stick | KELLY DOWN | | m |
| | TOTAL | | 3357.12 m |
| WT. OF DC | | | 92000 1000 daN |
| WT. OF STRING | | | 129000 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 4D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537 X |
| MFG. | REED |
| TYPE | EHP53A |
| SERIAL NO. | TC1149 |
| JETS (mm) | OPEN |
| DEPTH OUT (m) | - |
| DEPTH IN (m) | 3383 |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: T1 / T0 / MDC / LOC / B / Gage / ODC / Reason Pulled / Total Run m/hr.

**HOLE CONDITION**
HOLE DRAG: 6000# 6000#
TORQUE AT BOTTOM: 8500 - 10000 Nm
FILL ON BOTTOM (m): 0

**MUD RECORD**

MUD TYPE ☒ WATER BASED ☐ OIL BASED
TIME: 24:00
DENSITY kg/m³: 1035
FUNNEL VIS. - (S/L): 42
W.L. (cm³)
pH

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| UltraSeal | 10 SX |
| CalCARB 80 | 15 SX |
| CaCARB | 56 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN / INTAKE DENSITY (kg/m ) / OVERFLOW DENSITY (kg/m ) / UNDERFLOW DENSITY (kg/m )
CENTRIFUGE: HOURS RUN / INTAKE DENSITY (kg/m ) / OVERFLOW DENSITY (kg/m ) / UNDERFLOW DENSITY (kg/m )

**METRES DRILLED**

| FROM | TO | DRLG RM.R. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | 10 | |

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) / S.P.M. | PUMP NO. 2 LINER SIZE (mm) / S.P.M.
35100 | 158 | | 152 | 110

**REDUCED PUMP SPEED** 1200 @ / @ 60

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

DRILLER SIGNATURE: Gary Patrick

EVENING TOUR

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 14:00 | 16:15 | 2 1/4 | 5 | Monitor Hole Volume & Flow |
| 16:15 | 16:45 | 1/2 | 6 | Pull 6 STDS. To 3182m |
| 16:45 | 17:15 | 1/2 | 5 | Circulate & monitor MUD Volume |
| 17:15 | 17:30 | 1/4 | 6 | Pull up into Casing 3124m |
| 17:30 | 18:45 | 1 1/4 | 5 | Circ @ 3124m Monitor Hole |
| 18:45 | 19:30 | 3/4 | 6 | R I H F/3124m - 3383m |
| 19:30 | 24:00 | 4 1/2 | 5 | Wash To Bottom No Fill, Circulate & monitor hole. Circulate & condition mud |

NOTES: √ Crown Saver, Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 135000 DAN | | 11951 KPA |

EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 4 | | GP |
| DERRICKMAN | | Mike Watrich | 4 | | MW |
| MOTORMAN | | Wendell Bethel | 4 | | WB |
| FLOORMAN | | Richard Czarnecki | 4 | | RC |
| FLOORMAN | | Tim Byers | 4 | | TB |
| LEASEMAN | | Jesse Lessard | 4 | | JL |
| Lease | | Robert Dunfra | 4 | | RD |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

FOLD HERE →

125225

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER:

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial |
| (2) Detailed Inspection-Weekly (using checklist) | Initial | Initial |
| (3) H2S Signs Posted (if required) | Initial | Initial |
| (4) Well License & Slick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually inspect BOP's - Flarelines & Degasser Lines | Initial | Initial |
| (1) Rig Site Health and Safety Meeting (one/crew/month) | Initial | |
| (2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) | Initial | |
| (3) Mast Inspection Before Raising or Lowering | Initial | |
| (4) Crown Saver Checked | Initial | |
| (5) Motor Kills checked | Initial | |

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 08 |

RIG NO.: 58

**FUEL @ 8:00**

RIG: 74 | BOILER

**WEATHER**

TEMPERATURE °C

CURRENT CONDITIONS

WIND DIRECTION

ROAD

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 216.8 | 71.02 | BTEC | L-80 | 228 | 3148.18 | 6.60 | 3147 |

| DC/DP | SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| DP | 178 | 194.8 | D.X. | 33 | 178 | 5 1/2 FH | 26 | | | |
| DP | 127 | 76.4 | 14-W | 79 | 165 | 4 1/2 | 197 | F-1000 | Emsco | 254 |
| DC | | 39.02 | E 75 | 108 | 162 | 4 1/2 | 24 | F-1000 | Emsco | 254 |
| DC | | 38.10 | E 75 | 69 | 162 | IF | 33 | | | |
| | | | S135 | 89 | 164 | | 53 | | | |

REVISED MARCH 1996

125225

BOARD COPY

CAODC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| CDN Forest Etal Flett N-61 | 99 | 09 | 08 |

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD

RIG MANAGER: Dave Lauck | RIG NO.: 58

PROVINCE: N.W.T | CAMP: ☒ YES ☐ NO | RIG SAFETY DAYS: 1136

## TIME-HRS

| CODE NO. | 1 OPER. | 2 RIG-UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | 8 | | | | | | | | | | | | | | | | Hustle Tools | | | |
| DAY | | | | | | 6 1/2 | 1 1/4 | 1/4 | | | | | | | | | | | | | | | | | |
| EVE. | | | | | | 6 1/2 | 1/4 | | | | | | | | | | | | | | | | | | |
| TOTAL | | | | | | 24 | 17 3/4 | 1/2 | | | | | | | | | | | | | 1 1/4 | 1 1/4 | | | | |

**TOTALS**

| SHALE SHAKER(S) NO. | TYPE |
|---|---|
| 8 | Derrick |
| 8 | SCREENS CHANGED ☐ YES ☐ NO |
| 8 | TOP / TOP |
| 8 | MIDDLE / MIDDLE |
| 24 | BOTTOM / BOTTOM |

**RENTALS/SERVICES**

| | MORN | DAY | EVE |
|---|---|---|---|
| TMT - 146348 | | | |
| AMT - 9036 | | | |
| ACC. Oil | 3 | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | Bit Sub | | 1.25 |
| 1 | monel | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X10 | | .43 |
| 3 | 3 PT. RM | | 1.47 |
| 1 | Shock | | 3.17 |
| 3 | 178 D.C. | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 D.C. | | 114.54 |
| 1 | X10 | | 1.41 |
| 9 | H.W. | | 81.94 |
| | BHA | | 249.21 |
| 109 | D.P. | STANDS | |
| 4x | D.P. | SINGLES | 3149.66 |
| Stickup | KELLY DOWN | | 14.88 |
| | TOTAL | | 3383.94 |

WT. OF DC: 24000 (1000 daN)

WT. OF STRING: 129000 (1000 daN)

## BIT RECORD

| | |
|---|---|
| BIT NO. | 3D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Reed |
| TYPE | EHP53A |
| SERIAL NO. | TC1149 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3380 |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: $T_1$ | $T_0$ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

## HOLE CONDITION

HOLE DRAG

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | |
| DENSITY kg/m³ | |
| FUNNEL VIS. - (S/L) | |
| W.L. (cm³) | |
| pH | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Walnut-Fine | 20 SKS |
| Walnut-Med | 40 SKS |
| Starpak | 28 SKS |
| Drispac-Sto | 5 SKS |
| Drispac-Reg | 5 SKS |
| Ultra-Seal | 8 SKS |
| MICA | 13 SKS |
| CAL-CARB- | 204 SKS |

**SOLIDS CONTROL**

DESILTER

| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
|---|---|---|---|
| | | | |

CENTRIFUGE

| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
|---|---|---|---|
| | | | |

HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m )

## MORNING TOUR

**METRES DRILLED**

| FROM | TO | DR'D RM'R CORE'C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 152 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**

Rod Cad

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 08:00 | 8 | 5 | Build Vol, 1CM Pills, Keep hole full & monitor |

NOTES: √Crown Saver, dead line anchor, fast line clamp

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | X |
| DERRICKMAN | | Jerry Foley | 8 | | X |
| MOTORMAN | | Kevin Vandenbrand | 8 | | X |
| FLOORMAN | | Julien Sassie | 8 | | X |
| FLOORMAN | | Gerald Gilbert | 8 | | X |
| LEASEMAN | | Laurence Loreen | 8 | | X |
| Lease | | Bert Timbre | 8 | | X |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**METRES DRILLED**

| FROM | TO | DR'D RM'R CORE'C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 152 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**

Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 12:45 | 4 3/4 | 5 | Build volume. |
| 12:45 | 13:30 | 3/4 | 6 | POOH TO 3136m, Flow√ |
| 13:30 | 13:45 | 1/4 | 7 | RIS, Function Top Pipe 6 secs |
| 13:45 | 15:30 | 1 3/4 | 5 | mix L.C.M., spot Pill |
| 15:30 | 16:00 | 1/2 | 6 | POOH Flow√ 15 STDS |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 145000 DAN | | 11951 kPA |

**DAY TOUR 08:00 TO 16:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | X |
| DERRICKMAN | | Mike Watrick | 8 | | X |
| MOTORMAN | | Wendell Bethel | 8 | | X |
| FLOORMAN | | Richard Czarnecki | 8 | | X |
| FLOORMAN | | Tim Byers | 8 | | X |
| LEASEMAN | | Jesse Lessard | 8 | | X |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**METRES DRILLED**

| FROM | TO | DR'D RM'R CORE'C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 152 | | 152 | |

**REDUCED PUMP SPEED**

@ | @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 22:30 | 6 1/2 | 6 | POOH. Flow√ 9a.ss |
| 22:30 | 03:45 | 11 1/4 | 22 | LAY DOWN MWD TOOLS |
| 03:45 | 24:00 | 1/4 | 7 | RIS, Function Blind Rams. 6 secs |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| | | | | | 11951 kPA |

**EVENING TOUR 16:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Allan Lickoch | 8 | | X |
| DERRICKMAN | | Conrad Antle | 8 | | X |
| MOTORMAN | | Mike Guerin | 8 | | X |
| FLOORMAN | | Adam Murray | 8 | | X |
| FLOORMAN | | Clayton Cameron | 8 | | X |
| LEASEMAN | | Terry Bertrand | 8 | | X |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125224

REVISED MARCH 1996

125224

BOARD COPY

APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

N/

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N61-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

**DAILY CHECKS**

| | OPR. | R.M. |
|---|---|---|
| (1) Daily Walk Around Inspection | Initial | Initial |
| (2) Detailed Inspection-Weekly (using checklist) | Initial | Initial |
| (3) H²S Signs Posted (if required) | Initial | Initial |
| (4) Well Licence & Stick Diagram Posted | Initial | Initial |
| (5) Flare Lines Staked | Initial | Initial |
| (6) BOP Drills Performed | Initial | Initial |
| (7) Visually Inspect BOP's - Parelines & Deadline Lines | Initial | Initial |

(1) Rig Site Health and Safety Meeting (one/crew/month) Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) Initial
(3) Mast Inspection Before Raising or Lowering Initial
(4) Crown Saver Checked Initial
(6) Motor Kills checked Initial

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 07 |

RIG NO. 58

**FUEL @ 8:00**

RIG 98 | BOILER

**WEATHER**

| | °C |
|---|---|
| TEMPERATURE | |
| CURRENT CONDITIONS | |
| WIND DIRECTION | |
| ROAD | |

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 216.8 | 79.62 | BT&C | L-80 | 238 | 3148.18 | | 3147 |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL J.T.O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 178 | 174.8 | D-E | 78 | 213 | 5 H90 | 26 | F-1000 | Emsco | |
| 127 | 74.4 | H-W | 78 | 162 | | 7 | | | |
| | 29.02 | E2 | 108 | 162 | 4½ IF | 218 | F-1000 | Emsco | |
| | 38.10 | E2 | 99 | 162 | | 132 | | | |
| | | S135 | 89 | 164 | | 55 | | | |

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | ½ | | | 1 | 5¼ | ¼ | | | | | | | | | | | | | | handle Tools | | | |
| DAY | | | 3¼ | | | 7¼ | | | | | | | | | | | | | | | | | | | |
| EVE. | | | 7¼ | | | 7¼ | | ¼ | | | | | | | | | | | | | | | | | |
| TOTAL | | | 11¼ | | | 16 | 5¼ | ½ | | | | | | | | | | | | | | 1 | | | |

**TOTALS**

| | SHALE SHAKER(S) | RENTALS/SERVICES |
|---|---|---|
| 2 | NO. TYPE: Derrick | TMJ 5678 |
| 8 | SCREENS CHANGED ☐ YES ☑ NO | AMT 142919 |
| 8 | TOP 175 / TOP 140 | |
| 8 | MIDDLE / MIDDLE | |
| 24 | BOTTOM / BOTTOM | Acc. Oil 39 |

| | MORN | DAY | EVE |
|---|---|---|---|
| | | | |

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| CDN Forest Etal Flett N-61 | 99 | 09 | 07 |

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO.: 58

PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1135

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| | | | .25 |
| 1 | Bit Sub | | 1.22 |
| 1 | Monel | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X/O | | .43 |
| 1 | 3 Pt. Rm. | | 1.47 |
| 1 | Shock | | 3.17 |
| 3 | 178 Dc. | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 D.C. | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | H.W. | | 81.94 |
| | | BHA | 249.21 |
| 109 | D.P. | STANDS | |
| XX | D.P. | SINGLES | 3149.66 |
| Stick Up | KELLY/DOWN | | 16.87 |
| | TOTAL | | 3382.00 |

WT. OF DC 24000 (1000 daN)

WT. OF STRING 129000 (1000 daN)

## BIT RECORD

| | |
|---|---|
| BIT NO. | 3D |
| SIZE (mm) | 215.9 |
| IADC CODE | 5 3 7 X |
| MFG. | Reed |
| TYPE | EHP53A |
| SERIAL NO. | TC1149 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3380 |
| TOTAL METRES DRILLED (m) | 2 |
| TOTAL HOURS RUN | ½ |

CUTTING STRUCTURE: $T_1$ $T_0$ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

**HOLE CONDITION**

HOLE DRAG

TORQUE AT BOTTOM 14000-

FILL ON BOTTOM (m) No Fill

## MUD RECORD

MUD TYPE ☑ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | |
| DENSITY kg/m³ | |
| FUNNEL VIS. - (S/L) | |
| W.L. (cm³) | |
| pH | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| DispaKR- | 2 SXS |
| Dispakle | 2 SXS |
| Starpak | 3 SXS |
| XANVIS | 2 SXS |

**SOLIDS CONTROL**

DESILTER

| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
|---|---|---|---|
| | | | |

CENTRIFUGE

| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
|---|---|---|---|
| | | | |
| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
| | | | |

## MORNING TOUR

**METRES DRILLED**

| FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3380 | 3382 | 2 | 60 | 5/9 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 7900 | 152 | | 152 | 90 |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | | | 22 | Break off bit # 2D, Make up Bit # 3D, lay down monel, check MWD equipment |
| | 01:00 | 1 | | |
| 01:00 | 02:15 | 1¼ | 6 7 | √Flow, R.I.H. BHA To 304 √Flow √MWD |
| 02:15 | 02:30 | ¼ | 7 | PR/S Func. Ann 22sec |
| 02:30 | | | 6 | R.I.H F/ 304m - 1022m √Flow & MWD |
| | | | | R.I.H F/1022-1512 m √Flow & MWD |
| | | | | R.I.H F/1512-2232 m √Flow & MWD |
| | | | | R.I.H F/2232-3205 m √Flow & MWD |
| | 06:30 | 4 | | R.I.H F/3205-3369 m |
| 06:30 | 07:30 | 1 | 5 | Break circulate Wash to 3380 |
| 07:30 | 08:00 | ½ | 2 | Break in B.I. Drill F/3380 m - 3382 m |

NOTES √Crown Saver, deadline anchor, fastline clamp Install corrosion ring

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | |

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | RC |
| DERRICKMAN | | Jerry Foley | 8 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 8 | | KV |
| FLOORMAN | | Julien Sassie | 8 | | JS |
| FLOORMAN | | Gerald Gilbert | 8 | | GG |
| LEASEMAN | | Lawrence Loreen | 8 | | LL |
| Lease | | Bert Timbre | 8 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☐ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| | | | .25 |
| 1 | Bit Sub | | 1.22 |
| 1 | Monel | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X/O | | .43 |
| 1 | 3 Pt Ream | | 1.47 |
| 1 | Shock | | 3.17 |
| 3 | 178 Dc | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 D.C. | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | H.W. | | 81.94 |
| | | BHA | 249.21 |
| 109 | D.P. | STANDS | |
| XX | D.P. | SINGLES | 3149.66 |
| Stick Up | KELLY/DOWN | | 14.88 |
| | TOTAL | | 3383.99 |

WT. OF DC 24000 (1000 daN)

WT. OF STRING 129000 (1000 daN)

## BIT RECORD

| | |
|---|---|
| BIT NO. | 3D |
| SIZE (mm) | 215.9 |
| IADC CODE | 5 3 7 X |
| MFG. | Reed |
| TYPE | EHP53A |
| SERIAL NO. | TC1149 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3380 |
| TOTAL METRES DRILLED (m) | 3 |
| TOTAL HOURS RUN | 1¼ |

CUTTING STRUCTURE: $T_1$ $T_0$ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

**HOLE CONDITION**

HOLE DRAG 6000 T 6000 ↓

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | |
| DENSITY kg/m³ | 1020 |
| FUNNEL VIS. - (S/L) | 60 |
| W.L. (cm³) | |
| pH | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Drispack | 16 SX |
| XANVIS | 17 SX |
| Drispac LO | 6 SX |
| CalCARB | 269 SX |
| Ultraseal | 63 SX |
| Defoamer | 5 pails |
| MICA | 106 SX |
| XANVIS | 17 SX |

**SOLIDS CONTROL**

DESILTER

| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
|---|---|---|---|
| | | | |

CENTRIFUGE

| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
|---|---|---|---|
| | | | |
| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
| | | | |

## DAY TOUR

**METRES DRILLED**

| FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3382 | 3383 | 1 | 60 | 9 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 7300 | 152 | | 152 | 90 |

**REDUCED PUMP SPEED**

@ @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 08:45 | ¾ | 2 | Drill F/ 3382 m - 3383.9 m |
| 08:45 | 16:00 | 7¼ | 5 | Flow √, Hole Taking mud, mix L.C.M. & Pump. |

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 137000 DAN | | |

## DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Richard Czarnecki | 12 | | RC |
| FLOORMAN | | Tim Byers | 12 | | TB |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| | | | .25 |
| 1 | Bit Sub | | 1.22 |
| 1 | Monel | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X/O | | 1.43 |
| 1 | 3 Pt Ream | | 1.47 |
| 1 | Shock | | 3.17 |
| 3 | 178 Dc. | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 D.C. | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | H.W. | | 81.94 |
| | | BHA | 249.21 |
| 109 | D.P. | STANDS | |
| XX | D.P. | SINGLES | 3149.66 |
| St. Up | KELLY/DOWN | | 14.88 |
| | TOTAL | | 3383.99 |

WT. OF DC 24000 (1000 daN)

WT. OF STRING 129000 (1000 daN)

## BIT RECORD

| | |
|---|---|
| BIT NO. | 3D |
| SIZE (mm) | 215.9 |
| IADC CODE | 5 3 7 X |
| MFG. | Reed |
| TYPE | EHP53A |
| SERIAL NO. | TC1149 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3380 |
| TOTAL METRES DRILLED (m) | 3 |
| TOTAL HOURS RUN | 1¼ |

CUTTING STRUCTURE: $T_1$ $T_0$ MDC LOC B Gage ODC Reason Pulled Total Run m/hr.

**HOLE CONDITION**

HOLE DRAG 6000 ↑ 6000 ↓

TORQUE AT BOTTOM

FILL ON BOTTOM (m)

## MUD RECORD

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | |
|---|---|
| TIME | |
| DENSITY kg/m³ | |
| FUNNEL VIS. - (S/L) | |
| W.L. (cm³) | |
| pH | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Starpak | 33 SX |
| Caustic | 1 SX |
| CALCARB | 89 SXS |
| XANVIS | 4 SXS |
| Drispack | 3 SXS |
| Dispac-LO | 2 SXS |

**SOLIDS CONTROL**

DESILTER

| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
|---|---|---|---|
| | | | |

CENTRIFUGE

| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
|---|---|---|---|
| | | | |
| HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m ) |
| | | | |

## EVENING TOUR

**METRES DRILLED**

| FROM | TO | DR-D RM-R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3383 | | | | |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| | 152 | | 152 | |

**REDUCED PUMP SPEED**

@ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 16:15 | ¼ | 7 | R/S, Function Remote Choke. |
| 16:15 | 24:00 | 7¾ | 5 | Mix and Pump L.C.M., Monitor Well |

NOTES √Crown Saver, deadline anchor, fastline clamp

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | |

## EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 4 | | RC |
| DERRICKMAN | | Jerry Foley | 4 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 4 | | KV |
| FLOORMAN | | Julien Sassie | 4 | | JS |
| FLOORMAN | | Gerald Gilbert | 4 | | GG |
| LEASEMAN | | Lawrence Loreen | 4 | | LL |
| Lease | | Bert Timbre | 4 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125223

REVISED MARCH 1996

125223

BOARD COPY

CADC APPROVED COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| LICENCE NO. | WELL NAME AND NO. |
|---|---|
| 1863 | CDN Forest Etal Flett N-61 |
| OPERATOR | CONTRACTOR |
| Canadian Forest Oil | AKita Drilling LTD. |
| SURFACE LOCATION | UNIQUE ID. |
| N61-6040-12330 | 300-N61-6040 |
| SIGNATURE OF OPERATOR'S REPRESENTATIVE | SIGNATURE OF CONTRACTOR'S RIG MANAGER |
| J&R Holley | Dave Lauck |

**DAILY CHECKS** — OPR: Initial / R.M.: Initial

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) HFS Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 06 |

RIG NO. 58

**FUEL @ 8:00**

RIG 123 | BOILER

**WEATHER**
TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 216.8 | 79.62 | BT&C | L-80 | 228 | 3148.74 | 6.60 | 3147 |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 178 | 179.9 | D-E | 74 | 165 | 5 1/2 FH | 36 | | | |
| 127 | 74.4 | H-40 | 94 | 165 | 4 1/2 IF | 17 | F-1000 | Emsco | 254 |
| | 29.05 | E-75 | 108 | 162 | | 218 | F-1000 | Emsco | 254 |
| / | 38.10 | E-75 | 89 | 162 | IF | 139 | | | |
| | 49.5 | X-95 | 104 | 162 | | 55 | | | |

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | 7 1/2 | | | | | 1/4 | | | 1/4 | | | | | | | | | | | Clean Sand Trap | BOP Drill Choke line | | | |
| DAY | | | 7 | | | | | 1/4 | | | 1/2 | | | | | | | | | | | 1/4 | | | | |
| EVE. | | | 1/4 | | | 1 | 1/4 | 5 3/4 | | | | | | | | | | | | | | | | 1/4 | 1/2 | |
| TOTAL | | | 14 3/4 | | | 1 | 1/4 | 5 3/4 | | | 1/2 | | | | | | | | | | | 1/4 | | 1/4 | 1/2 | |

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| NO. 2 | TYPE Derrick | TMT 4390 | | | |
| SCREENS CHANGED ☐ YES ☑ NO | | AMI 141602 | | | |
| 8 TOP 175 | TOP 140 | | | | |
| 8 MIDDLE | MIDDLE | | | | |
| 8 BOTTOM | BOTTOM | ACC.Oil 39 | | | |
| 24 | | | | | |

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| CDN Forest Etal Flett N-61 | 99 | 09 | 06 |
| OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD. | | |
| RIG MANAGER: Dave Lauck | RIG NO. 58 | | |
| PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1134 | |

## MORNING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | Bit Sub | | 1.22 |
| 1 | Monel MWD | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X/O | | 1.43 |
| 1 | Monel | | 9.20 |
| 1 | 3pt Ream. | | 1.47 |
| 1 | Shock Sub | | 3.17 |
| 3 | 178 D.C. | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 D.C. | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | H.W. | | 81.94 |
| | BHA | | 258.41 |
| 106 | D.P. | STANDS | 3120.56 |
| xx | D.P. | SINGLES | |
| | KELLY DOWN | | 10.77 |
| | TOTAL | | B368.80 |
| WT. OF DC | | | 35000 1000 daN |
| WT. OF STRING | | | 139000 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 221 |
| TOTAL HOURS RUN | 93 1/4 |

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

**HOLE CONDITION**

| | |
|---|---|
| HOLE DRAG | 120000↑ 110000↓ |
| TORQUE AT BOTTOM | 11000 - 12500 NM |
| FILL ON BOTTOM (m) | — |

**MUD RECORD**

MUD TYPE ☑ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 0:2:30 | 0:500 | 07:00 |
| DENSITY kg/m³ | 1055 | 1060 | 1060 |
| FUNNEL VIS. - (S/L) | 49 | 49 | 54 |
| W.L. (cm³) | 6.2 | 6.7 | 5.2 |
| pH | 10.3 | 10.5 | 10.2 |
| P.V.T. m³ | 73.5 | 73.5 | 73.4 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Surf-Kote | 2 pails |
| Biocide | 1 pail |
| Drispac | 5 sxs |
| XANVIS | 2 sxs |
| Caustic | 1 sx |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m )

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m )

**METRES DRILLED**

| FROM | TO | DR'D PRES. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3353 | 3368 | 15 | 60 | 9 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| Choke 9000 | 152 | 90 | 152 | |

**REDUCED PUMP SPEED**

Choke 3500 @ 50 @ 3359
Choke 3400

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3351.2 | 1.5 | 839 |

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 03:30 | 3 1/2 | 2 | Drill 315.9mm hole F/3353-3359.2m |
| 03:30 | 03:45 | 1/4 | 7 | R/S function Top pipe 85ec |
| 03:45 | 04:00 | 1/4 | 10 | Survey @ 3351.2 |
| 04:00 | 08:00 | 4 | 3 | Drill F/3359.2-3368.2m |
| | | | | Serviced #1 Pump 1 Swb HEAD + 3 discharge SEATS + Valves. |

NOTES √Crown Saver, deadline anchor, fastline clamp Held Competency Training meeting w/crew

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 141000 | Hot Work Policy | 11180 |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | NC |
| DERRICKMAN | | Jerry Foley | 8 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 8 | | KV |
| FLOORMAN | | Julien Sassie | 8 | | JS |
| FLOORMAN | | Gerald Gilbert | 8 | | GG |
| LEASEMAN | | Lawrence Loreen | 8 | | LL |
| Lease | | Bert Timbre | 8 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | Bit Sub | | 1.28 |
| 1 | Monel MWD | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X/O | | .43 |
| 1 | Monel | | 9.20 |
| 1 | Bpt Ream | | 1.47 |
| 1 | Shock Sub | | 3.17 |
| 3 | 178 D.C. | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 DC | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | H.W. | | 81.94 |
| | BHA = | | 258.41 |
| 109 | D.P. | STANDS | 3130.26 |
| | D.P. | SINGLES | |
| Stick up | KELLY DOWN | | 8.87 |
| | TOTAL | | 3379.80 |
| WT. OF DC | | | 25000 1000 daN |
| WT. OF STRING | | | 130000 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 232 |
| TOTAL HOURS RUN | 100 1/4 |

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

**HOLE CONDITION**

| | |
|---|---|
| HOLE DRAG | 140000↑ 140000↓ |
| TORQUE AT BOTTOM | 11500 - 12500 NM |
| FILL ON BOTTOM (m) | |

**MUD RECORD**

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 09:00 | 12:00 | 15:00 |
| DENSITY kg/m³ | 1060 | 1060 | 1060 |
| FUNNEL VIS. - (S/L) | 56 | 54 | 54 |
| W.L. (cm³) | 6.5 | 7.0 | 7.0 |
| pH | 10.5 | 10.5 | 10.5 |
| PVT m³ | 70.6 | 72.3 | 74.2 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| XL Defoamer | 2 pails |
| Corinox | 1 pail |
| Sod Sulfite | 1 sx |
| Biocide | 1 pail |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m )

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m )

**METRES DRILLED**

| FROM | TO | DR'D PRES. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3368 | 3379 | 11 | 60 | 9 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| Choke 9200 | 152 | | 152 | 90 |

**REDUCED PUMP SPEED**

Choke 3200 @ @ 50
Choke 3100

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3360.8 | 1.6 | 84.9 |
| 3370.9 | 1.5 | 83.2 |

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 09:00 | 1 | 2 | Drill F/3368m-3369.8m |
| 09:00 | 09:15 | 1/4 | 22 | Suck out Sand Trap, Lost 4m³ |
| 09:15 | 09:30 | 1/4 | 10 | Survey @ 3360.8m |
| 09:30 | 14:30 | 5 | 2 | Drill F/3369.8m-3378.7m |
| 14:30 | 14:45 | 1/4 | 10 | Survey @ 3370.9m |
| 14:45 | 15:00 | 1/4 | 7 | R/S, Function Bottom Pipe 6sec c/s √R.S.P.P. |
| 15:00 | 16:00 | 1 | 2 | Drill F/3378.7m-3379.8m |
| | | | | Serviced #2 Pump · Changed 3 Discharge Valves & Seats. |

NOTES √Crown Saver, Fastline Clamp, Deadline Anchor. Held enviromental meeting, Greased Blocks

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 145000 DAN | Storage and use of Fuel Products | 11334 KPA |

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Richard Czarnecki | 12 | | RC |
| FLOORMAN | | Tim Byers | 12 | | TB |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| | | | | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | D.P. | STANDS | |
| | D.P. | SINGLES | |
| | KELLY DOWN | | |
| | TOTAL | | |
| WT. OF DC | | | 1000 daN |
| WT. OF STRING | | | 1000 daN |

**BIT RECORD**

| | | |
|---|---|---|
| BIT NO. | 2D | 3D |
| SIZE (mm) | 215.9 | 215.9 |
| IADC CODE | 537X | 537X |
| MFG. | Smith | Reed |
| TYPE | F3R | EHP53A |
| SERIAL NO. | LG0661 | TC1149 |
| JETS (mm) | 3x9.5 | 3x9.5 |
| DEPTH OUT (m) | 3380 | |
| DEPTH IN (m) | 3147 | 3380 |
| TOTAL METRES DRILLED (m) | 233 | |
| TOTAL HOURS RUN | 100 1/2 | |

Out of Hole

CUTTING STRUCTURE: T1 | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.
4 | 4 | WT | A | E | 3/I | CT | PR | 2.32

**HOLE CONDITION**

| | |
|---|---|
| HOLE DRAG | 14000↑ 14000↓ |
| TORQUE AT BOTTOM | 11500 - 12500 |
| FILL ON BOTTOM (m) | |

**MUD RECORD**

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 17:00 | | |
| DENSITY kg/m³ | 1055 | | |
| FUNNEL VIS. - (S/L) | 53 | | |
| W.L. (cm³) | 7.0 | | |
| pH | 10.5 | | |
| PVT | 75.4 | | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Alk. Carb | 67 sx |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m )

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m ) | OVERFLOW DENSITY (kg/m ) | UNDERFLOW DENSITY (kg/m )

**METRES DRILLED**

| FROM | TO | DR'D PRES. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3379 | 3380 | 1 | 60 | 9 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| Choke 9200 | 152 | 90 | 152 | 90 |

**REDUCED PUMP SPEED**

Choke 3200 @ 3380 @ 50
Choke 3400

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| Trip Record | | |
| Cal 18.04 | | |
| ACT 24.90 | | |
| Diff + 6.86 | | |

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 16:15 | 1/4 | 2 | Drill F/3379.8m-3380.1m |
| 16:15 | 17:30 | 1 1/4 | 5 | Circulate Bottoms up. |
| 17:30 | | | 6 | Flow, P.O.O.H. Flow √@ 9 stds. Pump pill |
| | 21:00 | 3 1/2 | | P.O.H. 50 STDS √Flow |
| 21:00 | 21:15 | 1/4 | 23 | Hold BOP Drill while tripping well secure 90 sec |
| 21:15 | 21:45 | 1/2 | 24 | Blow, Kill line, HCR Line, Cmt line w/air |
| 21:45 | | | 6 | Cmt to P.O.H √Flow @ H.W.T. √Flow |
| | 24:00 | 2 1/4 | | on Bank Blind rams 7sec |

NOTES √Crown Saver, deadline anchor, fastline clamp Function HCR 3sec, Choke 19sec, Ann 22 sec.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | | | 11334 |

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 4 | | NC |
| DERRICKMAN | | Jerry Foley | 4 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 4 | | KV |
| FLOORMAN | | Julien Sassie | 4 | | JS |
| FLOORMAN | | Gerald Gilbert | 4 | | GG |
| LEASEMAN | | Lawrence Loreen | 4 | | LL |
| Lease | | Bert Timbre | 4 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

125222

LICENCE NO.: 1963
WELL NAME AND NO.: CDN Forest Etal Flett N-61
OPERATOR: Canadian Forest Oil
CONTRACTOR: AKita Drilling LTD.
SURFACE LOCATION: N61-6040-12330
UNIQUE ID.: 300-N61-6040
SIGNATURE OF OPERATOR'S REPRESENTATIVE:
SIGNATURE OF CONTRACTOR'S RIG MANAGER:

**DAILY CHECKS** — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

YEAR 99 | MONTH 09 | DAY 05
RIG NO. 58
**FUEL @ 8:00**
RIG 148 | BOILER

**WEATHER**
TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

**LAST CASING TUBING OR LINER**

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | 244.5 | 216.8 | 79.62 | BTS C | L-80 | 228 | 3148.18 | | 3147 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 177.8 | 73.8 | E | 59 | 178 | 5 1/2 REG | 26 | F-1000 | Emsco | 354 |
| 127 | 74.4 | H-W | 74 | 165 | | 17 | | | |
| | 29.02 | E2 | 108 | 162 | 4 1/2 | 119 | F-1000 | Emsco | 354 |
| 1 | 38.10 | E2 | 99 | 162 | | 138 | | | |
| | | 2595 | 99 | 164 | IF | 1 | | | |

REVISED MARCH 1996

125222

BOARD COPY

CAODC — APPROVED. COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR 99 | MONTH 09 | DAY 05
OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.
RIG MANAGER: Dave Lauck | RIG NO. 58
PROVINCE: N.W.T | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS 1133

## TIME-HRS

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | 6 3/4 | | | | | 1/4 | | 3/4 | | | | | | | | | | | | Flow Ck. 1/4 | | | |
| DAY | | | 7 3/4 | | | | | 1/4 | | 1/4 | | | | | | | | | | | | | | | |
| EVE | | | 7 1/4 | | | | | 1/4 | | 1/2 | | | | | | | | | | | | | | | |
| TOTAL | | | 21 3/4 | | | | | 1/2 | | 1 1/2 | | | | | | | | | | | | 1/4 | | | |

**TOTALS**

**SHALE SHAKER(S)**

NO. 8 | TYPE Derrick
SCREENS CHANGED ☐ YES ☐ NO
TOP 175 | TOP 140
MIDDLE | MIDDLE
BOTTOM | BOTTOM

**RENTALS/SERVICES** — MORN. / DAY / EVE.

TMS 2380
AMS 139590
ACC.O: 1 39

## DRILLING ASSEMBLY (At End of Tour) — BIT RECORD — MUD RECORD

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | Bit Sub | | 1.33 m |
| 1 | monel mwd | | 9.11 m |
| 1 | Trans sub | | 1.64 m |
| 1 | X/O | | .93 m |
| 1 | monel | | 9.20 m |
| 1 | 3PT Ream | | 1.47 m |
| 1 | Shock Sub | | 3.17 m |
| 3 | 178 DC | | 28.59 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | | BHA | 258.41 m |
| 106 | D.P. | STANDS | 3062.43 m |
| XX | D.P. | SINGLES | |
| Stick Up | KELLY DOWN | | 0 m |
| | TOTAL | | 3320.84 m |

WT. OF DC 35000 (1000 daN)
WT. OF STRING 137000 (1000 daN)

BIT NO. 2D
SIZE (mm) 215.9
IADC CODE 537X
MFG. Smith
TYPE F3R
SERIAL NO. LG0661
JETS (mm) 3x9.5
DEPTH OUT (m) —
DEPTH IN (m) 3147
TOTAL METRES DRILLED (m) 173
TOTAL HOURS RUN 70 3/4

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION
HOLE DRAG 120000↑ 90000↓
TORQUE AT BOTTOM 10500 - 14500 NM
FILL ON BOTTOM (m)

| MUD RECORD | | | |
|---|---|---|---|
| MUD TYPE | ☑ WATER BASED | ☐ OIL BASED | |
| TIME | 04:00 | 07:00 | |
| DENSITY kg/m³ | 1050 | 1050 | |
| FUNNEL VIS. - (S/L) | 53 | 52 | |
| W.L. (cm³) | 6.8 | 7.5 | |
| pH | 10.2 | 10.8 | |
| PVT m³ | 74.7 | 74.8 | |

MUD MATERIALS ADDED

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Drispac Reg | 5 sks |
| Xanvis | 2 sks |
| Caustic | 1 sk |

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRILLED OR REAM. CORE C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3301 | 3320 | 19 | 60 | 8/9 |

CIRCULATION PRESSURE (kPa): 4800 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M. 90

REDUCED PUMP SPEED: 3300 @ @ 50

DEVIATION SURVEY

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3293 | 1.7 | 65.7 |
| 3303.2 | 1.6 | 64.6 |
| 3312.8 | 1.5 | 66.8 |

DRILLER SIGNATURE

## TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | |
|---|---|---|---|---|
| 00:00 | 00:15 | 1/4 | 7 | R/S Bot Pipe 8sec |
| 00:15 | 00:30 | 1/4 | 10 | Survey @ 3293m |
| 00:30 | 03:30 | 3 | 2 | Drill 215.9mm hole F/3301 - 3311.20m |
| 03:30 | 03:45 | 1/4 | 10 | Survey @ 3303.2m |
| 03:45 | 04:45 | 1 | 2 | Drill F/3311.2 - 3315m |
| 04:45 | 05:00 | 1/4 | 22 | Flow check |
| 05:00 | 07:45 | 2 3/4 | 2 | Drill F/3315 - 3320.8m |
| 07:45 | 08:00 | 1/4 | 10 | Survey @ 3312.8m |

NOTES: √Crown Saver, deadline anchor, fastline clamp
√Fire extinguishers

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 140000 | | 11642 |

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | RC |
| DERRICKMAN | | Jerry Foley | 8 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 8 | | KV |
| FLOORMAN | | Julien Sassie | 8 | | JS |
| FLOORMAN | | Gerald Gilbert | 8 | | GG |
| LEASEMAN | | Lawrence Loreen | 8 | | LL |
| Lease | | Bert Timbre | 8 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour) — BIT RECORD — MUD RECORD

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | Bit Sub | | 1.33 m |
| 1 | monel mwd | | 9.11 m |
| 1 | Trans Sub | | 1.64 m |
| 1 | X/O | | .93 m |
| 1 | monel | | 9.20 m |
| 1 | 3PT Ream | | 1.47 m |
| 1 | Shock Sub | | 3.17 m |
| 3 | 178 DC | | 28.59 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | | BHA | 258.41 m |
| 107 | D.P. | STANDS | 3081.83 m |
| X | D.P. | SINGLES | 3.44 m |
| Stick Up? | KELLY DOWN | | |
| | TOTAL | | 3336.80 m |

WT. OF DC 35000 (1000 daN)
WT. OF STRING 137000 (1000 daN)

BIT NO. 2D
SIZE (mm) 215.9
IADC CODE 537X
MFG. Smith
TYPE F3R
SERIAL NO. LG0661
JETS (mm) 3x9.5
DEPTH OUT (m) —
DEPTH IN (m) 3147
TOTAL METRES DRILLED (m) 189
TOTAL HOURS RUN 78 1/2

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION
HOLE DRAG 11000↑ 9000↓ DAN
TORQUE AT BOTTOM 10500 - 12000 NM
FILL ON BOTTOM (m)

| MUD RECORD | | | |
|---|---|---|---|
| MUD TYPE | ☒ WATER BASED | ☐ OIL BASED | |
| TIME | 09:00 | 12:00 | 15:00 |
| DENSITY kg/m³ | 1050 | 1050 | 1050 |
| FUNNEL VIS. - (S/L) | 52 | 56 | 54 |
| W.L. (cm³) | 7.5 | 7.2 | 7.5 |
| pH | 11.0 | 11.0 | 11.0 |
| PVT m³ | 71.6 | 73.4 | 72.7 |

MUD MATERIALS ADDED

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Corinox | 1 pail |
| Sodsulfite | 1 sx |
| Bio-cide | 1 pail |
| DrispacR | 5 sx |
| XANVIS | 2 sx |
| Defoamer XL | 2 pails |

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRILLED OR REAM. CORE C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3320 | 3336 | 16 | 60 | 9/10 |

CIRCULATION PRESSURE (kPa): 9400 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. 90 | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M.

REDUCED PUMP SPEED: 3800 @ 50 @

DEVIATION SURVEY

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3323.5 | 1.4 | 72.1 |

DRILLER SIGNATURE

## TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | |
|---|---|---|---|---|
| 08:00 | 12:15 | 4 1/4 | 2 | Drill F/3320.8m - 3330.7m |
| 12:15 | 12:30 | 1/4 | 10 | Survey @ 3323.5m |
| 12:30 | 16:00 | 3 1/2 | 2 | Drill F/3330.7m - 3336.8m |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.
√Flare igniters, Held Competency Trainning meeting.

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 140000 DAN | HOT WORK Policy | 11642 KPA |

## DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Richard Czarnecki | 12 | | RC |
| FLOORMAN | | Tim Byers | 12 | | TB |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| RIG WATCH | | | | | |

RATE SCHEDULE ☒ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour) — BIT RECORD — MUD RECORD

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | Bit Sub | | 1.33 m |
| 1 | monel mwd | | 9.11 m |
| 1 | Trans Sub | | 1.64 m |
| 1 | X/O | | .93 m |
| 1 | monel | | 9.20 m |
| 1 | 3PT Ream | | 1.47 m |
| 1 | Shock Sub | | 3.17 m |
| 3 | 178 DC | | 28.59 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | | BHA | 258.41 m |
| 108 | D.P. | STANDS | 3101.24 m |
| | D.P. | SINGLES | 2.40 m |
| Stick Up | KELLY DOWN | | 6.65 m |
| | TOTAL | | 3353 m |

WT. OF DC 35000 (1000 daN)
WT. OF STRING 129000 (1000 daN)

BIT NO. 2D
SIZE (mm) 215.9
IADC CODE 537X
MFG. Smith
TYPE F3R
SERIAL NO. LG0661
JETS (mm) 3x9.5
DEPTH OUT (m)
DEPTH IN (m) 3147
TOTAL METRES DRILLED (m) 206
TOTAL HOURS RUN 85 3/4

CUTTING STRUCTURE: T_I | T_O | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

HOLE CONDITION
HOLE DRAG 12000↑ 11000↓
TORQUE AT BOTTOM 10500 - 12000 NM
FILL ON BOTTOM (m)

| MUD RECORD | | | |
|---|---|---|---|
| MUD TYPE | ☒ WATER BASED | ☐ OIL BASED | |
| TIME | 18:00 | 21:00 | 24:00 |
| DENSITY kg/m³ | 1050 | 1050 | 1055 |
| FUNNEL VIS. - (S/L) | 54 | 52 | 50 |
| W.L. (cm³) | 7.5 | 7.0 | 7.0 |
| pH | 11.0 | 11.0 | 11.0 |
| PVT m³ | 73.1 | 73.2 | 73.5 |

MUD MATERIALS ADDED

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Sod Sulf. | 1 sx |
| Corinox | 1 pail |

SOLIDS CONTROL

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRILLED OR REAM. CORE C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3336 | 3353 | 17 | 60 | 10/9 |

CIRCULATION PRESSURE (kPa): 9400 | PUMP NO. 1: LINER SIZE (mm) 152, S.P.M. 90 | PUMP NO. 2: LINER SIZE (mm) 152, S.P.M.

REDUCED PUMP SPEED: 3300 @ 50 @

DEVIATION SURVEY

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3332.2 | 1.4 | 75.4 |
| 3342.0 | 1.5 | 81.1 |

DRILLER SIGNATURE

## TIME LOG — DETAILS OF OPERATION IN SEQUENCE AND REMARKS

| FROM | TO | ELAP. TIME | CODE NO. | |
|---|---|---|---|---|
| 16:00 | 17:15 | 1 1/4 | 2 | Drill F/3336.8m - 3339.6m |
| 17:15 | 17:30 | 1/4 | 10 | Survey @ 3332.2m |
| 17:30 | 17:45 | 1/4 | 7 | R/S Function Annular 18sec cls √RSPP |
| 17:45 | 22:30 | 4 3/4 | 2 | Drill F/3339.6m - 3350m |
| 22:30 | 22:45 | 1/4 | 10 | Survey @ 3342m |
| 22:45 | 24:00 | 1 1/4 | 2 | Drill F/3350 - 3353 |

NOTES: √Crown Saver, deadline anchor, fastline clamp

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 141000 | | 11642 |

## EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 4 | | RC |
| DERRICKMAN | | Jerry Foley | 4 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 4 | | KV |
| FLOORMAN | | Julien Sassie | 4 | | JS |
| FLOORMAN | | Gerald Gilbert | 4 | | GG |
| LEASEMAN | | Lawrence Loreen | 4 | | LL |
| Lease | | Bert Timbre | 4 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT
CREW SAFETY DAYS

FOLD HERE →

125221

REVISED MARCH 1996

125221

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

LICENCE NO.: 1863 | WELL NAME AND NO.: CDN Forest Etal Flett N-61

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

SURFACE LOCATION: N41-6040-12330 | UNIQUE ID.: 300-N61-6040

SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: Dave Lauck

**DAILY CHECKS** — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H2S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flanglines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 04 |

RIG NO.: 58

**FUEL @ 8:00**

RIG: 177 | BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 216.8 | 79.62 | BTEC | L-80 | 224 | 3148.18 | | 3147 |

| 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) |
|---|---|---|---|---|---|---|---|---|---|
| 177.8 | 171.18 | D-6 | 50 | 203 | 5 RHD | 26 | | | |
| 127 | 74.4 | H-90 | 74 | 165 | | 17 | F-1000 | Emsco | 254 |
| | 29.02 | E-2 | 108 | 162 | 4½ IF | 218 | F-1000 | Emsco | 254 |
| | 38.10 | E-3 | 69 | 162 | | 139 | | | |
| | | S-135 | 89 | 164 | | 53 | | | |

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | 7¼ | | | | | | ¼ | | | ½ | | | | | | | | | | | | | | | |
| DAY | | 7¼ | | | | | | ¼ | | | ¼ | | | | | | | | | | | ¼ | | | | |
| EVE. | | 7¾ | | | | | | | | | ¼ | | | | | | | | | | | | | | | |
| TOTAL | | 32¼ | | ½ | | | | | | | 1 | | | | | | | | | | | ¼ | | | | |

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| NO. | TYPE | | | | |
| 2 | Derrick | TMT 1480 | | | |
| SCREENS CHANGED | ☑ YES ☐ NO | AMJ 139192 | | | |
| 8 | TOP 175 | TOP 140 | | | |
| 8 | MIDDLE 175 | MIDDLE 140 | | | |
| 24 | BOTTOM 175 | BOTTOM 140 | | | |

ACC.0.1 39

WELL NAME & NO.: CDN Forest Etal Flett N-61 | YEAR 99 | MONTH 09 | DAY 04

OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD.

RIG MANAGER: Dave Lauck | RIG NO.: 58

PROVINCE: N.W.T | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: 1132

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | Bit Sub | | 1.35 |
| 1 | Monel MWD | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X/O | | 1.43 |
| 1 | Monel | | 9.20 |
| 1 | 3PT. RM. | | 1.47 |
| 1 | Shock | | 3.17 |
| 3 | 178 D.C. | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 D.C. | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | H.W. | | 81.94 |
| | | BHA | 258.41 |
| 105 | D.P. | STANDS | 3023.61 |
| x | D.P. | SINGLES | |
| Stick up | KELLY DOWN | | 7.22 |
| | TOTAL | | 3274.80 |
| WT. OF DC | | 1000 daN | 250 00 |
| WT. OF STRING | | 1000 daN | 136 000 |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 20 |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 127 |
| TOTAL HOURS RUN | 49 |

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr

## HOLE CONDITION

HOLE DRAG: 140000 ↑ 90000↓

TORQUE AT BOTTOM: 10500 - 14000 NM

FILL ON BOTTOM (m):

## MUD RECORD

MUD TYPE: ☑ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 01:00 | 03:00 | 06:30 |
| DENSITY kg/m³ | 1045 | 1050 | 1050 |
| FUNNEL VIS. - (S/L) | 50 | 49 | 48 |
| W.L. (cm³) | 7.5 | 8.0 | 7.7 |
| pH | 10.0 | 10.5 | 10.5 |
| PVT m³ | 81.5 | 81.4 | 81.8 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Caustic | 1 SX |
| Sod. Sulfite | 1 SX |
| Corrosex | 1 pail |
| H2O | 3.6 m³ |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

MORNING TOUR

## METRES DRILLED

| FROM | TO | DRLG RM/R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3262 | 3274 | 12 | 60 | 7/8 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 8800 | 152 | | 152 | 90 |

REDUCED PUMP SPEED: 3300 @ @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3254.2 | 2.1 | 63.2 |
| 3264.3 | 3.0 | 65.2 |

DRILLER SIGNATURE:

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 00:15 | ¼ | 7 |
| 00:15 | 00:30 | ¼ | 10 |
| 00:30 | 06:30 | 6 | 2 |
| 06:30 | 06:45 | ¼ | 10 |
| 06:45 | 08:00 | 1¼ | 2 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

R/S Top pipe 8sec
Survey @ 3252.4m
Drill 215.9mm hole F/3262-3272.3m
Survey @ 3264.3m
Drill F/3272.3-3274.8

NOTES: ✓Crown Saver, deadline anchor, fastline clamp

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 8 | | | 140000 | | 11642 |

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | ✓ |
| DERRICKMAN | | Jerry Foley | 8 | | ✓ |
| MOTORMAN | | Kevin Vandenbrand | 8 | | ✓ |
| FLOORMAN | | Julien Sassie | 8 | | ✓ |
| FLOORMAN | | Gerald Gilbert | 8 | | ✓ |
| LEASEMAN | | Lawrence Loreen | 8 | | ✓ |
| | | Bert Timbre | 8 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

DAY TOUR

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | Bit Sub | | 1.35 |
| 1 | Monel MWD | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X/O | | 1.43 |
| 1 | Monel | | 9.20 |
| 1 | 3PT RM | | 1.47 |
| 1 | Shock Sub | | 3.17 |
| 3 | 178 D.C. | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 D.C. | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | HW | | 81.94 |
| | | BHA | 258.41 |
| 106 | D.P. | STANDS | 3043.03 |
| | D.P. | SINGLES | |
| Stick up | KELLY DOWN | | 13.04 |
| | TOTAL | | 3288.40 |
| WT. OF DC | | 1000 daN | 350 00 |
| WT. OF STRING | | 1000 daN | 126 000 |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 141 |
| TOTAL HOURS RUN | 56¼ |

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr

## HOLE CONDITION

HOLE DRAG: 2000 ↑ 12000↓ DAN

TORQUE AT BOTTOM: 10500-13500 Nm

FILL ON BOTTOM (m):

## MUD RECORD

MUD TYPE: ☑ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 09:00 | 12:00 | 15:00 |
| DENSITY kg/m³ | 1050 | 1050 | 1050 |
| FUNNEL VIS. - (S/L) | 48 | 48 | 52 |
| W.L. (cm³) | 8.0 | 8.0 | 8.0 |
| pH | 11.0 | 11.0 | 11.0 |
| PVT m³ | 82.0 | 77.1 | 77.1 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Corrosex | 1 pail |
| Sod Sulfite | 1 SX |
| Bio-Cide | 1 pail |
| Kelzan | 2 SX |
| Drispac R | 5 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

DAY TOUR

## METRES DRILLED

| FROM | TO | DRLG RM/R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3274 | 3288 | 14 | 60 | 7/8 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 8800 | 152 | | 152 | 90 |

REDUCED PUMP SPEED: 3300 @ @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3274.0 | 1.9 | 70.2 |

DRILLER SIGNATURE:

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 11:45 | 3¾ | 2 |
| 11:45 | 12:00 | ¼ | 10 |
| 12:00 | 12:15 | ¼ | 7 |
| 12:15 | 12:30 | ¼ | 22 |
| 12:30 | 16:00 | 3½ | 2 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Drill F/3274.8m-3281.7m
Survey @ 3274.0m
RIS, Function Annular, 19sec ✓RSPP
Clean Sand Trap. Lost 5m³
Drill F/3281.7m-3288.4m

NOTES: ✓Crown Saver, Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 140000 DAN | | 11642 KPA |

## DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | ✓ |
| DERRICKMAN | | Mike Watrich | 12 | | ✓ |
| MOTORMAN | | Wendell Bethel | 12 | | ✓ |
| FLOORMAN | | Richard Czornecki | 12 | | ✓ |
| FLOORMAN | | Tim Byers | 12 | | ✓ |
| LEASEMAN | | Jesse Lessard | 12 | | ✓ |
| | | | | | |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

EVENING TOUR

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH m |
|---|---|---|---|
| 1 | Bit Sub | | 1.35 |
| 1 | Monel MWD | | 9.11 |
| 1 | Trans Sub | | 1.64 |
| 1 | X/O | | 1.43 |
| 1 | Monel | | 9.20 |
| 1 | 3PT RM | | 1.47 |
| 1 | Shock | | 3.17 |
| 3 | 178 D.C. | | 28.59 |
| 1 | Jar | | 5.44 |
| 12 | 178 D.C. | | 114.54 |
| 1 | X/O | | 1.41 |
| 9 | H.W. | | 81.94 |
| | | BHA | 258.41 |
| 106 | D.P. | STANDS | 3043.03 |
| | D.P. | SINGLES | |
| Stick up | KELLY DOWN | | 0.44 |
| | TOTAL | | 3301 |
| WT. OF DC | | 1000 daN | 250 00 |
| WT. OF STRING | | 1000 daN | 136 000 |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 154 |
| TOTAL HOURS RUN | 64 |

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr

## HOLE CONDITION

HOLE DRAG: 110001 ↑ 120001

TORQUE AT BOTTOM: 10500 - 11600 NM

FILL ON BOTTOM (m):

## MUD RECORD

MUD TYPE: ☑ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 18:00 | 20:00 | 23:00 |
| DENSITY kg/m³ | 1050 | 1045 | 1050 |
| FUNNEL VIS. - (S/L) | 52 | 48 | 48 |
| W.L. (cm³) | 7.5 | 7.5 | 7.0 |
| pH | 11.0 | 11.0 | 11.0 |
| PVT m³ | 77.0 | 76.9 | 76.3 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Biocide | 1 pail |
| Sod. Sulfite | 1 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

EVENING TOUR

## METRES DRILLED

| FROM | TO | DRLG RM/R CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3288 | 3301 | 13 | 60 | 7/8 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 8800 | 152 | | 152 | 90 |

REDUCED PUMP SPEED: 3300 @ @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3283.7 | 1.8 | 67.9 |

DRILLER SIGNATURE:

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 18:15 | 2¼ | 2 |
| 18:15 | 18:30 | ¼ | 10 |
| 18:30 | 24:00 | 5½ | 2 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Dr. ll F/3288.4m-3292.4m
Survey @ 3283.7m
Drill F/3292.4m-3301m

NOTES: ✓Crown Saver, deadline anchor, fastline clamp

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 140 000 | | 11642 |

## EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 4 | | ✓ |
| DERRICKMAN | | Jerry Foley | 4 | | ✓ |
| MOTORMAN | | Kevin Vandenbrand | 4 | | ✓ |
| FLOORMAN | | Julien Sassie | 4 | | ✓ |
| FLOORMAN | | Gerald Gilbert | 4 | | ✓ |
| LEASEMAN | | Lawrence Loreen | 4 | | ✓ |
| | | Bert Timbre | 4 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118170

| LICENCE NO. | WELL NAME AND NO. |
|---|---|
| 1863 | CDN Forest Etal Flett N-61 |
| **OPERATOR** | **CONTRACTOR** |
| Canadian Forest Oil | Akita Drilling LTD. |
| **SURFACE LOCATION** | **UNIQUE ID.** |
| NW 6040-12330 | 300-N61-6040 |
| **SIGNATURE OF OPERATOR'S REPRESENTATIVE** | **SIGNATURE OF CONTRACTOR'S RIG MANAGER** |
| J.W.P. | Dave Lauck |

**DAILY CHECKS** (OPR. / R.M.)

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection-Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flexilines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (once/week/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (once/q/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

| (YEAR) | (MONTH) | (DAY) |
|---|---|---|
| 99 | 09 | 03 |

RIG NO. 58

**FUEL @ 8:00**

RIG 80 | BOILER

**WEATHER**
TEMPERATURE °C
CURRENT CONDITIONS
WIND DIRECTION
ROAD

**LAST CASING TUBING OR LINER**

| O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|
| 244.5 | 216.8 | 79.02 | BTC | L-80 | 226 | 3148.18 | | 3147 |

| DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|
| 178 | 1.71.58 | D.C | 57.15 | 178 | S-H90 | 249 | | | |
| 127 | 74.4 | H-W | 74 | 165 | | 17 | F-1000 | Emsco | 254 |
| | 39.02 | E-3 | 108 | 162 | 4½IF | 218 | F-1000 | Emsco | 254 |
| | 38.10 | E-3 | 89 | 162 | | 138 | | | |

REVISED MARCH 1996

118170

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| CDN Forest Etal Flett N-61 | 99 | 09 | 03 |
| OPERATOR | CONTRACTOR | | |
| Canadian Forest Oil | Akita Drilling LTD | | |
| RIG MANAGER | RIG NO. | | |
| Dave Lauck | 58 | | |
| PROVINCE | CAMP ☑ YES ☐ NO | RIG SAFETY DAYS: | |
| N.W.T | | 1131 | |

**TIME-HRS**

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRILL LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 Crown Save/Trip | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MORN. | | 7¼ | | | | | ¼ | | | ½ | | | | | | | | | | | | | | | |
| | DAY | | 8¾ | | | | | ¼ | | | ¾ | | | | | | | | | | | | ¼ | | | |
| | EVE. | | 7¾ | | | | | | | | ¼ | | | | | | | | | | | | | | | |
| | TOTAL | | 24 | | | | | ½ | | | 1½ | | | | | | | | | | | | ¼ | | | |

**TOTALS**

| SHALE SHAKER(S) | | RENTALS/SERVICES | MORN | DAY | EVE |
|---|---|---|---|---|---|
| NO. | TYPE | | | | |
| 8 | Derrick | TMS 1655 | | | |
| 8 | SCREENS CHANGED ☐ YES ☑ NO | AMS 138867 | | | |
| 8 | TOP 175 / MIDDLE / BOTTOM | | | | |
| 24 | TOP 140 / MIDDLE / BOTTOM | Acc. Oil 39 | | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| | | | .25 m |
| 1 | Bit Sub | | 1.22 m |
| 1 | monel mwd | | 9.11 m |
| 1 | Trans Sub | | 1.64 m |
| 1 | X/O | | .93 m |
| 1 | monel | | 9.20 m |
| 1 | 3PT Recm | | 1.47 m |
| 1 | Shock Sub | | 3.17 m |
| 3 | 178 DC | | 28.57 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 D.C. | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | | BHA: | 258.81 m |
| 103 | D.P. | STANDS | m |
| X | D.P. | SINGLES | 2965.57 m |
| Stickup | KELLY DOWN | | 2.50 m |
| | TOTAL | | 3221.40 m |
| WT. OF DC | | 25000 | 1000 daN |
| WT. OF STRING | | 135000 | 1000 daN |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 74 |
| TOTAL HOURS RUN | 27¼ |

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

## HOLE CONDITION

HOLE DRAG 60000↑ 90000↓
TORQUE AT BOTTOM 8500-11200 NM
FILL ON BOTTOM (m) —

## MUD RECORD

| MUD TYPE ☑ WATER BASED ☐ OIL BASED | | |
|---|---|---|
| TIME | 03:00 | 06:30 |
| DENSITY kg/m³ | 1040 | 1040 |
| FUNNEL VIS. - (S/L) | 46 | 44 |
| W.L. (cm³) | 8.0 | 8.5 |
| pH | 11.0 | 11.0 |
| P.V./Tm³ | 18/1 | 18/6 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Caustic | 1 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRD/RM/RCORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3195 | 3221 | 26 | 45 | 12 |

CIRCULATION PRESSURE (kPa): 8500
PUMP NO. 1: LINER SIZE (mm) 152; S.P.M.
PUMP NO. 2: LINER SIZE (mm) 152; S.P.M. 90

**REDUCED PUMP SPEED**

3000 @ — @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3196.7 | 0.8 | 323.1 |
| 3206.3 | 0.7 | 319.9 |

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 03:30 | 3½ | 2 | Drill 315.9mm hole F/3195m - 3204.69m |
| 03:30 | 03:45 | ¼ | 7 | R/S Suction Ann 31sec |
| 03:45 | 03:00 | ¼ | 10 | Survey @ 3196.7m |
| 03:00 | 05:30 | 2½ | 2 | Drill F/3204.69 - 3214.3m |
| 05:30 | 05:45 | ¼ | 10 | Survey @ 3206.3 - |
| 05:45 | 08:00 | 2¼ | 2 | Drill F/3214.3 - 3221.4 m |

NOTES: ✓Crown Saver, deadline anchor, fastline clamp

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 132000 | | 11451 |

## MORNING TOUR 00:00 TO 08:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | RC |
| DERRICKMAN | | Jerry Foley | 8 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 8 | | KV |
| FLOORMAN | | Julien Sassie | 8 | | JS |
| FLOORMAN | | Gerald Gilbert | 8 | | GG |
| LEASEMAN | | Lawrence Loreen | 8 | | LL |
| Lease | | Bert Timbre | 8 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| | | | .25 m |
| 1 | Bit Sub | | 1.22 m |
| 1 | monel mwd | | 9.11 m |
| 1 | Trans Sub | | 1.64 m |
| 1 | X/O | | .93 m |
| 1 | monel | | 9.20 m |
| 1 | 3PT Recm | | 1.47 m |
| 1 | Shock Sub | | 3.17 m |
| 3 | 178 DC | | 28.57 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | | BHA: | 258.81 m |
| 104 | D.P. | STANDS | m |
| X | D.P. | SINGLES | 3004.19 m |
| Stickup | KELLY DOWN | | 19.00 m |
| | TOTAL | | 3243.60 m |
| WT. OF DC | | 25000 | 1000 daN |
| WT. OF STRING | | 135000 | 1000 daN |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 96 |
| TOTAL HOURS RUN | 34 |

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

## HOLE CONDITION

HOLE DRAG 10000↑ 10000↓ DAN
TORQUE AT BOTTOM 9500-10500 Nm
FILL ON BOTTOM (m) —

## MUD RECORD

| MUD TYPE ☑ WATER BASED ☐ OIL BASED | | | |
|---|---|---|---|
| TIME | 09:00 | 12:00 | 15:00 |
| DENSITY kg/m³ | 1040 | 1040 | 1040 |
| FUNNEL VIS. - (S/L) | 44 | 44 | 50 |
| W.L. (cm³) | 8.5 | 8.5 | 8.0 |
| pH | 11.0 | 11.0 | 11.0 |
| P.V./Tm³ | 8/2.7 | 8/2.2 | 8/2.5 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Corinag | 1 Pail |
| SodaAsh | 1 SX |
| Biocide | 1 Pail |
| Sat Kote | 1 Pail |
| KelZAN | 4 SX |
| Drispac | 10 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRD/RM/RCORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3221 | 3243 | 22 | 45 | 12¾ |

CIRCULATION PRESSURE (kPa): 8600
PUMP NO. 1: LINER SIZE (mm) 152; S.P.M.
PUMP NO. 2: LINER SIZE (mm) 152; S.P.M. 90

**REDUCED PUMP SPEED**

3300 @ — @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3215.9 | 0.5 | 333.2 |
| 3225.7 | 0.4 | 13.9 |
| 3235.4 | 0.7 | 43.1 |

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 08:45 | ¾ | 2 | Drill F/3221.4m - 3223.6m |
| 08:45 | 09:00 | ¼ | 10 | Survey @ 3215.9m |
| 09:00 | 09:15 | ¼ | 22 | Clean Sand Trap |
| 09:15 | 12:15 | 3 | 2 | Drill F/3223.6m - 3234.7m |
| 12:15 | 12:30 | ¼ | 10 | Survey @ 3225.7m |
| 12:30 | 15:15 | 2¾ | 2 | Drill F/3234.7m - 3243.0m |
| 15:15 | 15:30 | ¼ | 7 | R/S Function BOTTOM pipe Rams, 6sec ✓RSPP |
| 15:30 | 15:45 | ¼ | 10 | Survey @ 3225.7 |
| 15:45 | 16:00 | ¼ | 2 | Drill F/3243.0m - 3243.6m |

NOTES: ✓Crown Saver Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 140000 DAN | | 11951 KPA |

## DAY TOUR 08:00 TO 20:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Richard Czarnecki | 12 | | RC |
| FLOORMAN | | Tim Byers | 12 | | TB |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| | | | .25 m |
| 1 | Bit Sub | | 1.22 m |
| 1 | monel MWD | | 9.11 m |
| 1 | Trans Sub | | 1.64 m |
| 1 | X/O | | .93 m |
| 1 | monel | | 9.20 m |
| 1 | 3PT. RM | | 1.47 m |
| 1 | Shock | | 3.17 m |
| 3 | 178 D.C. | | 28.57 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 D.C. | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | | BHA | 258.41 m |
| 104 | D.P. | STANDS | m |
| XX | D.P. | SINGLES | 3004.19 m |
| Stickup | KELLY DOWN | | 1.6 m |
| | TOTAL | | 3262 m |
| WT. OF DC | | 25000 | 1000 daN |
| WT. OF STRING | | 135000 | 1000 daN |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 115 |
| TOTAL HOURS RUN | 41¾ |

CUTTING STRUCTURE: T | T₀ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

## HOLE CONDITION

HOLE DRAG 10000↑ 10000↓
TORQUE AT BOTTOM 10500-11000 NM
FILL ON BOTTOM (m)

## MUD RECORD

| MUD TYPE ☑ WATER BASED ☐ OIL BASED | | | |
|---|---|---|---|
| TIME | 18:00 | 20:00 | 22:00 |
| DENSITY kg/m³ | 1045 | 1045 | 1045 |
| FUNNEL VIS. - (S/L) | 50 | 50 | 49 |
| W.L. (cm³) | 8.0 | 8.5 | 7.8 |
| pH | 11.0 | 11 | 10.0 |
| P.V./Tm³ | 8/2.7 | 8/2.3 | 8/1.8 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Caustic | 1 SX |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)
CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## METRES DRILLED

| FROM | TO | DRD/RM/RCORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3243 | 3262 | 19 | 45/60 | 12/14 |

CIRCULATION PRESSURE (kPa): 8400
PUMP NO. 1: LINER SIZE (mm) 152; S.P.M.
PUMP NO. 2: LINER SIZE (mm) 152; S.P.M. 90

**REDUCED PUMP SPEED**

3300 @ — @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3248.9 | 1.4 | 56.6 |

DRILLER SIGNATURE

## TIME LOG

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 18:45 | 2¾ | 2 | Drill F/3243.6m - 3253.9m |
| 18:45 | 19:00 | ¼ | 10 | Survey @ 3249.9m |
| 19:00 | 24:00 | 5 | 2 | Drill F/3253.9m - 3262m |

NOTES: ✓Crown Saver, deadline anchor, fastline clamp

| BOILER HRS. RAN | ph | STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 140000 | | 11951 |

## EVENING TOUR 20:00 TO 24:00

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 4 | | RC |
| DERRICKMAN | | Jerry Foley | 4 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 4 | | KV |
| FLOORMAN | | Julien Sassie | 4 | | JS |
| FLOORMAN | | Gerald Gilbert | 4 | | GG |
| LEASEMAN | | Lawrence Loreen | 4 | | LL |
| Lease | | Bert Timbre | 4 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118169

| LICENCE NO.: | WELL NAME AND NO.: |
|---|---|
| 1863 | CDN Forest Etal Flett N-61 |
| OPERATOR: | CONTRACTOR: |
| Canadian Forest Oil | AKita Drilling LTD. |
| SURFACE LOCATION: | UNIQUE ID.: |
| N61-6040-12330 | 300-N61-6040 |
| SIGNATURE OF OPERATOR'S REPRESENTATIVE: | SIGNATURE OF CONTRACTOR'S RIG MANAGER: |
| J.M.P. | Dave Lauck |

**DAILY CHECKS** — OPR. Initial / R.M. Initial

(1) Daily Walk Around Inspection
(2) Detailed Inspection Weekly (using checklist)
(3) H²S Signs Posted (if required)
(4) Well License & Stick Diagram Posted
(5) Flare Lines Staked
(6) BOP Drills Performed
(7) Visually Inspect BOP's - Panelines & Degasser Line

(1) Rig Site Health and Safety Meeting (one/crew/month)
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month)
(3) Mast Inspection Before Raising or Lowering
(4) Crown Saver Checked
(5) Motor Kills checked

| YEAR | MONTH | DAY |
|---|---|---|
| 99 | 09 | 02 |

RIG NO.: 58

**FUEL @ 8:00**

RIG: 103 BOILER:

WEATHER: TEMPERATURE °C; CURRENT CONDITIONS; WIND DIRECTION; ROAD

| LAST CASING TUBING OR LINER | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| | 244.5 | 216.8 | 59.62 | BTEC | L-80 | 238 | 3148.17 | | 3147 |

REVISED MARCH 1996

118169

BOARD COPY

APPROVED COPYRIGHT 1977 JANUARY — APPROVAL PENDING

## DRILLING CREW PAYROLL DATA

| WELL NAME & NO. | YEAR | MONTH | DAY |
|---|---|---|---|
| CDN Forest Etal Flett N-61 | 99 | 09 | 02 |
| OPERATOR: Canadian Forest Oil | CONTRACTOR: AKita Drilling LTD | | |
| RIG MANAGER: Dave Lauck | RIG NO.: 58 | | |
| PROVINCE: N.W.T | CAMP ☒ YES ☐ NO | RIG SAFETY DAYS: 1130 | |

**TIME-HRS**

| CODE NO. | OPER. | 1 RIG UP & TEAR DOWN | 2 DRILL ACTUAL | 3 REAMING | 4 CORING | 5 COND. MUD & CIRC. | 6 TRIPS | 7 RIG SERVICE | 8 REPAIR RIG | 9 CUT OFF DRILL LINE | 10 DEV. SURVEY | 11 WIRE LINE LOGS | 12 RUN CASE & CEMENT | 13 WAIT ON CEMENT | 14 NIPPLE UP B.O.P. | 15 TEST B.O.P. | 16 DRILL STEM TEST | 17 PLUG BACK | 18 SQUEEZE CEMENT | 19 FISHING | 20 DIR. WORK | 21 SAFETY MTG. | 22 | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | MORN. | | 3¼ | | | 3¼ | | ¼ | | | | | | | | | | | | | | Flowchk | B.O.P.Drill | ¼ | | | |
| | DAY | | 7¼ | | | | | ¼ | | | ½ | | | | | | | | | | | | ½ | | | | |
| | EVE. | | 7½ | | | | | | | | ½ | | | | | | | | | | | | | | | | |
| | TOTAL | | 18 | | | 3¼ | | ½ | | | 1 | | | | | | | | | | | | ½ | ¼ | | | |

**TOTALS**

| | | | |
|---|---|---|---|
| 8 | SCREENS CHANGED ☑ YES ☐ NO | | |
| 8 | TOP 175 | TOP 175 140 | |
| 8 | MIDDLE 175 | MIDDLE 175 140 | |
| 24 | BOTTOM 175 | BOTTOM 175 140 | |

**SHALE SHAKER(S)** — NO. / TYPE & Derrick

**RENTALS/SERVICES**

| | MORN | DAY | EVE |
|---|---|---|---|
| TMS 1266 | | | |
| ANT 138478 | | | |
| Acc.-Oil 39 | | | |

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | Bit Sub | | 1.22 m |
| 1 | monel MWD | | 9.11 m |
| 1 | Trans Sub | | 1.64 m |
| 1 | X/O | | .43 m |
| 1 | monel | | 9.20 m |
| 1 | 3PT Ream | | 1.47 m |
| 1 | Shock | | 3.17 m |
| 3 | 178 DC. | | 28.59 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 DC. | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| 102 | D.P. | STANDS | 3298.54 m |
| | D.P. | SINGLES | m |
| | Stick up KELLY DOWN | | 0 m |
| | TOTAL | | 3156.95 m |
| | WT. OF DC | 25000 | 1000 daN |
| | WT. OF STRING | 131000 | 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 9 |
| TOTAL HOURS RUN | 5¼ |

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

**HOLE CONDITION**

HOLE DRAG 10000↑ 6000↓
TORQUE AT BOTTOM 9500 Mill
FILL ON BOTTOM (m) —

**MUD RECORD**

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 00:00 | 02:00 | 04:00 |
| DENSITY kg/m³ | 1010 | 1025 | 1040 |
| FUNNEL VIS. - (S/L) | 42 | 42 | 40 |
| W.L. (cm³) | 9.0 | 9.0 | 8.5 |
| pH | 10.2 | 11.0 | 11.0 |
| P.V./Y.P. | 84.6 | 86.0 | 86.8 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Calcarb | 300 SKS |
| Caustic | 1 SK |
| H2O | 2.0 m³ |
| Drispac Re | 4 SKS |
| Kelzan | 2 SKS |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

**METRES DRILLED**

| FROM | TO | DRLG RM.R. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3150 | 3156 | 6 | 37/40 | 4/6 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 8300 | 152 | 90 | 152 | |

**REDUCED PUMP SPEED**

2400 @ 45 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| | | |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 00:00 | 01:30 | 1½ | 5 | Circulate & WT. up Mud system w/Kelcarb |
| 01:30 | 01:45 | ¼ | 22 | Flow ck. w/1025 Kg/m³ den (well flowing) |
| 01:45 | 04:00 | 2¼ | 5 | Circulate & WT. up sys w/Kelcarb. |
| 04:00 | 04:15 | ¼ | 23 | Flow ck w/1040 Kg/m³ Den |
| 04:15 | 04:30 | ¼ | 7 | R/S Func. Bot pipe 8sec |
| 04:30 | 07:45 | 3¼ | 2 | Drill F/3150 - 3156m |
| 07:45 | 08:00 | ¼ | 23 | B.O.P. Drill, Well Secure 1 min. |

NOTES: √Crown Saver, deadline anchor, fastline clamp
Held Competency Training meeting w/crew

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 135000 | Hoisting Tubulars | 11951 kPa |

**MORNING TOUR 00:00 TO 08:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 8 | | RC |
| DERRICKMAN | | Jerry Foley | 8 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 8 | | KV |
| FLOORMAN | | Julien Sassie | 8 | | JS |
| FLOORMAN | | Gerald Gilbert | 8 | | GG |
| LEASEMAN | | Lawrence Loreen | 8 | | LL |
| Lease | | Bert Timbre | 8 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

---

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | Bit Sub | | 1.22 m |
| 1 | monel MWD | | 9.11 m |
| 1 | Trans Sub | | 1.64 m |
| 1 | X/O | | .43 m |
| 1 | monel | | 9.20 m |
| 1 | 3PT Ream | | 1.47 m |
| 1 | Shock Sub | | 3.17 m |
| 3 | 178 DC. | | 28.59 m |
| 1 | Jar | | 5.44 m |
| 12 | 178 DC. | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| 102 | D.P. | STANDS | 3297.04 m |
| | D.P. | SINGLES | m |
| | Stick up KELLY DOWN | | 15.45 m |
| | TOTAL | | 3170.00 m |
| | WT. OF DC | 25000 | 1000 daN |
| | WT. OF STRING | 133000 | 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | — |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 23 |
| TOTAL HOURS RUN | 12½ |

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

**HOLE CONDITION**

HOLE DRAG 7000↑ 8000↓ DAN
TORQUE AT BOTTOM 8700-9500 NM
FILL ON BOTTOM (m) —

**MUD RECORD**

MUD TYPE ☐ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 07:00 | 09:00 | 12:00 |
| DENSITY kg/m³ | 1040 | 1040 | 1040 |
| FUNNEL VIS. - (S/L) | 43 | 44 | 46 |
| W.L. (cm³) | 7.5 | 8.8 | 8.5 |
| pH | 11.0 | 11.0 | 11.0 |
| P.V./Y.P. | 87.5 | 87.7 | 88.1 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Corimix | 1 pail |
| Sod. Sulfite | 1 SK |
| Bio-cide | 1 pail |
| Safe Kote | 1 pail |
| Drispack | 4 SK |
| Kelzan | 3 SK |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

**METRES DRILLED**

| FROM | TO | DRLG RM.R. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3156 | 3170 | 14 | 40/45 | 6/7 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 8500 | 152 | 90 | 152 | |

**REDUCED PUMP SPEED**

3000 @ 50 @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3152.0 | 0.9 | 337.7 |
| 3159.5 | 0.8 | 336.3 |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 08:00 | 08:15 | ¼ | 7 | R/S, Function Upper pipe Ram, 6 Sec V25 PP. |
| 08:15 | 10:00 | 1¾ | 2 | Drill F/3156m - 3160m |
| 10:00 | 10:15 | ¼ | 10 | Survey @ 3152m |
| 10:15 | 14:30 | 4¼ | 2 | Drill F/3160m - 3167.6m |
| 14:30 | 14:45 | ¼ | 10 | Survey @ 3159.5 |
| 14:45 | 16:00 | 1¼ | 2 | Drill F/3167.6m - 3170m |
| | | | | Held B.O.P. Drill @ 07.45 hrs |

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.
Greased Crown & Blocks, Held Competency Training meeting.

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 130000 DAN | Hoisting Tubulars | 11951 KPA |

**DAY TOUR 08:00 TO 20:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 12 | | GP |
| DERRICKMAN | | Mike Watrich | 12 | | MW |
| MOTORMAN | | Wendell Bethel | 12 | | WB |
| FLOORMAN | | Richard Czarnecki | 12 | | RC |
| FLOORMAN | | Tim Byers | 12 | | TB |
| LEASEMAN | | Jesse Lessard | 12 | | JL |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

---

**DRILLING ASSEMBLY (At End of Tour)**

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| 1 | Bit Sub | | 1.22 m |
| 1 | monel MWD | | 9.11 m |
| 1 | Trans sub | | 1.64 m |
| 1 | X/O | | .43 m |
| 1 | monel | | 9.20 m |
| 3 | PT. Ream | | 1.47 m |
| 1 | Shock | | 3.17 m |
| 3 | 178 D.C. | | 28.59 m |
| 1 | Jars | | 5.44 m |
| 12 | 178 D.C. | | 114.54 m |
| 1 | X/O | | 1.41 m |
| 9 | H.W. | | 81.94 m |
| | | BHA | 358.41 m |
| 102 | D.P. | STANDS | m |
| X | D.P. | SINGLES | 2936.69 m |
| | Stickup KELLY DOWN | | 0.10 m |
| | TOTAL | | 3195 m |
| | WT. OF DC | 25000 | 1000 daN |
| | WT. OF STRING | 134000 | 1000 daN |

**BIT RECORD**

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | 48 |
| TOTAL HOURS RUN | 30 |

CUTTING STRUCTURE: T | T0 | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

**HOLE CONDITION**

HOLE DRAG 6000↑ 9000↓
TORQUE AT BOTTOM 9000-11500 NM
FILL ON BOTTOM (m)

**MUD RECORD**

MUD TYPE ☒ WATER BASED ☐ OIL BASED

| | | | |
|---|---|---|---|
| TIME | 16:00 | 18:00 | 20:30 |
| DENSITY kg/m³ | 1040 | 1040 | 1040 |
| FUNNEL VIS. - (S/L) | 46 | 44 | 43 |
| W.L. (cm³) | 8.5 | 7.0 | 8.0 |
| pH | 10.5 | 10.5 | 11.2 |
| P.V./Y.P. | 87.8 | 88.1 | 87.2 |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| Corimix | 1 pail |
| Sod. Sulfite | 1 SK |
| Drispack | 5 SKS |
| Kelzan | 2 SKS |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

**METRES DRILLED**

| FROM | TO | DRLG RM.R. CORE-C | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3170 | 3195 | 25 | 40/45 | 6/10 |

| CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M. |
|---|---|---|---|---|
| 8500 | 152 | | 152 | 90 |

**REDUCED PUMP SPEED**

3000 @ @ 50

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|
| 3177.5 | 0.7 | 325.5 |
| 3147.1 | 0.8 | 328.8 |

DRILLER SIGNATURE

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. | DETAILS OF OPERATION IN SEQUENCE AND REMARKS |
|---|---|---|---|---|
| 16:00 | 21:45 | 5¾ | 2 | Drill F/3170 m - 3185.45 m |
| 21:45 | 22:00 | ¼ | 10 | Survey @ 3177.5 m |
| 22:00 | 23:45 | 1¾ | 2 | Drill F/3185.5 m - 3195.10 |
| 23:45 | 24:00 | ¼ | 10 | Survey @ 3187.10 |
| | | | | Pump #1 Change 1 dis valve, 1 liner cup gasket |

NOTES: √Crown Saver, Fastline clamp, deadline clamp
Service #1 Pump

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 130000 | | 11951 |

**EVENING TOUR 20:00 TO 24:00**

| CREW | SOC. INS. NO. | NAME | HRS | INJURIES YES | INJURIES NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Cadieux | 4 | | RC |
| DERRICKMAN | | Jerry Foley | 4 | | JF |
| MOTORMAN | | Kevin Vandenbrand | 4 | | KV |
| FLOORMAN | | Julien Sassie | 4 | | JS |
| FLOORMAN | | Gerald Gilbert | 4 | | GG |
| LEASEMAN | | Lawrence Loreen | 4 | | LL |
| Lease | | Bert Timbre | 4 | | BT |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

FOLD HERE →

118168

REVISED MARCH 1996

118168

BOARD COPY

APPROVED
COPYRIGHT 1977 JANUARY

APPROVAL PENDING

# DRILLING CREW PAYROLL DATA

| LICENCE NO. | WELL NAME AND NO. |
|---|---|
| 1863 | Canadian Forest et al Flett N-41 |
| OPERATOR | CONTRACTOR |
| Canadian Forest Oil | Akita Drilling LTD |
| SURFACE LOCATION | UNIQUE ID. |
| NW - 22 AC - 123 35 | 300 - NW - 22 AC |
| SIGNATURE OF OPERATOR'S REPRESENTATIVE | SIGNATURE OF CONTRACTOR'S RIG MANAGER |

**DAILY CHECKS** — OPR. / R.M.

(1) Daily Walk Around Inspection — Initial / Initial
(2) Detailed Inspection Weekly (using checklist) — Initial / Initial
(3) H²S Signs Posted (if required) — Initial / Initial
(4) Well License & Stick Diagram Posted — Initial / Initial
(5) Flare Lines Staked — Initial / Initial
(6) BOP Drills Performed — Initial / Initial
(7) Visually Inspect BOP's - Flarelines & Degasser Lines — Initial / Initial

(1) Rig Site Health and Safety Meeting (one/crew/month) — Initial
(2) C.A.O.D.C. Rig Safety Inspection Checklist (one/rig/month) — Initial
(3) Mast Inspection Before Raising or Lowering — Initial
(4) Crown Saver Checked — Initial
(5) Motor Kills checked — Initial

| YEAR | MONTH | DAY |
|---|---|---|
| 19 | 09 | 01 |

RIG NO. 58

**FUEL @ 8:00**

RIG 1-26 BOILER

| WEATHER | |
|---|---|
| TEMPERATURE °C | |
| CURRENT CONDITIONS | |
| WIND DIRECTION | |
| ROAD | |

| | O.D. (mm) | MIN. I.D. (mm) | kg/m | MAKE | GRADE | NO. OF JOINTS | TOTAL(m) LENGTH | KB. TO CSG HEAD (m) | SET AT (m) |
|---|---|---|---|---|---|---|---|---|---|
| LAST CASING | | | | | | | | | |
| TUBING OR | | | | | | | | | |
| LINER | 244.5 | 216.8 | 71.0 | BTEC | L-80 | 68 | 2949 | | 3147 |

| | DC/DP SIZE (mm) | LINEAR MASS (kg/m) | GRADE | MIN. ID (mm) | TOOL JT O.D. (mm) | TYPE THREAD | NO. OF JOINTS | PUMP TYPE | PUMP MANUFACTURER | STROKE LTH. (mm) |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 178 | 71.4 | DC | 76 | 196 | 6 5/8 REG | 26 | F-1000 | EMSCO | 254 |
| 2 | 178 | 71.4 | DC | 76 | 196 | 6 5/8 REG | 26 | F-1000 | EMSCO | 254 |
| 3 | 127 | 50.0 | XT | 76 | 162 | 4 1/2 IF | 28 | | | |
| 4 | 127 | 50.0 | XT | 76 | 162 | 4 1/2 IF | 28 | | | |
| 5 | 127 | 50.0 | XT | 76 | 162 | 4 1/2 IF | 28 | | | |

## TIME-HRS

| CODE NO. | 1 OPER. | 2 RIG UP & TEAR DOWN | 3 DRILL ACTUAL | 4 REAMING | 5 CORING | 6 COND. MUD & CIRC. | 7 TRIPS | 8 RIG SERVICE | 9 REPAIR RIG | 10 CUT OFF DRLG LINE | 11 DEV. SURVEY | 12 WIRE LINE LOGS | 13 RUN CASE & CEMENT | 14 WAIT ON CEMENT | 15 NIPPLE UP B.O.P. | 16 TEST B.O.P. | 17 DRILL STEM TEST | 18 PLUG BACK | 19 SQUEEZE CEMENT | 20 FISHING | 21 DIR. WORK | 22 SAFETY MTG. | 23 | 24 | 25 | 26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MORN. | | | | | | | 2¾ | ¼ | | ¾ | | | | | | | | | | | | 3½ | 1¼ | | | |
| DAY | | | 5¾ | ¾ | ¼ | | | | | | | | | | | | | | | | | ¼ | | 1/2 | | |
| EVE. | | 2 | 4 | | | | | | | | | | | | | | | | | | | ¼ | | 1/2 | | |
| TOTAL | | 2 | 9¾ | ¾ | ¼ | | 2¾ | ½ | | ¾ | | | | | | | | | | | | 1¼ | 1¼ | 1½ | | |

| TOTALS | SHALE SHAKER(S) | RENTALS/SERVICES | MORN. | DAY | EVE. |
|---|---|---|---|---|---|
| | NO. TYPE: 2 Screen | TMJ 1046 | | | |
| | SCREENS CHANGED ☑ YES ☐ NO | AMJ | | | |
| | TOP 175 / MIDDLE 175 / BOTTOM 175 | Acklin Oil 540 | | | |

## DRILLING ASSEMBLY (At End of Tour)

| NO. | BIT | O.D. mm | LENGTH |
|---|---|---|---|
| | | | .25 m |
| 1 | Bit Sub | | 1.22 m |
| 1 | Monel MWD | | 9.11 m |
| 1 | Trans Sub | | 1.64 m |
| 1 | X/O | | .43 m |
| 1 | Monel | | 9.20 m |
| 1 | 3PT Rom | | 1.47 m |
| 1 | Shock Sub | | 3.17 m |
| 3 | 178 DC | | 28.57 m |
| 1 | Jars | | 5.44 m |
| 12 | 178 DC | | 114.54 m |
| 9 | X/O | | 1.41 m |
| | HWDP | | 81.94 m |
| | BHA | | 358.46 m |
| 101 | D.P. | STANDS | 3198.54 m |
| | D.P. | SINGLES | m |
| | KELLY DOWN | | 10.95 m |
| | TOTAL | | 3146 m |
| WT. OF DC | | | 25000 1000 daN |
| WT. OF STRING | | | 121000 1000 daN |

## BIT RECORD

| | |
|---|---|
| BIT NO. | 2D |
| SIZE (mm) | 215.9 |
| IADC CODE | 537X |
| MFG. | Smith |
| TYPE | F3R |
| SERIAL NO. | LG0661 |
| JETS (mm) | 3x9.5 |
| DEPTH OUT (m) | |
| DEPTH IN (m) | 3147 |
| TOTAL METRES DRILLED (m) | |
| TOTAL HOURS RUN | |

CUTTING STRUCTURE: $T_i$ | $T_o$ | MDC | LOC | B | Gage | ODC | Reason Pulled | Total Run m/hr.

## HOLE CONDITION

HOLE DRAG
TORQUE AT BOTTOM
FILL ON BOTTOM (m)

## MUD RECORD

| MUD TYPE | ☐ WATER BASED | ☐ OIL BASED |
|---|---|---|
| TIME | | |
| DENSITY kg/m³ | | |
| FUNNEL VIS. - (S/L) | | |
| W.L. (cm³) | | |
| pH | | |

**MUD MATERIALS ADDED**

| PRODUCT | AMOUNT X UNIT |
|---|---|
| | |

**SOLIDS CONTROL**

DESILTER: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

CENTRIFUGE: HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

HOURS RUN | INTAKE DENSITY (kg/m³) | OVERFLOW DENSITY (kg/m³) | UNDERFLOW DENSITY (kg/m³)

## MORNING TOUR

**METRES DRILLED**

| FROM | TO | DR.O. R&R CORE C. | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3147 | | | | |

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.

**REDUCED PUMP SPEED** @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 00:00 | 03:30 | 3½ | 22 |
| 03:30 | 04:45 | 1¼ | 6 |
| 04:45 | 05:45 | 1 | 23 |
| 05:45 | 06:30 | ¾ | 9 |
| 06:30 | 06:45 | ¼ | 7 |
| 06:45 | 07:00 | ¼ | 23 |
| 07:00 | 08:00 | 1 | 6 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

RU MWD TRANSMITTER SUB TOGETHER
KJH 185m (Green cmt)
TEST MWD TOOL
Slip & Cut 20m
K/S FUNCTION ANNULAR 18 SEC.
TEST MWD TOOL
KJH 285m - 1200m

NOTES: √Crown Saver, Deadline Clamp, Deadline Anchor

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| | | | | | |

**MORNING TOUR 00:00 TO 08:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | ALLAN LICKOCH | 8 | | ✓ |
| DERRICKMAN | | NED MELNYK | 8 | | ✓ |
| MOTORMAN | | MIKE GUERIN | 8 | | ✓ |
| FLOORMAN | | WAYNE CARETIEN | 8 | | ✓ |
| FLOORMAN | | ADAM MURRAY | 8 | | ✓ |
| LEASEMAN | | MOSE HUNCH | 8 | | ✓ |
| LEASE | | BARRY BEETKWD | 8 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## DAY TOUR

**METRES DRILLED**

| FROM | TO | DR.O. R&R CORE C. | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3147 | | | | |

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.
7800 | 152 | 90 | | |

**REDUCED PUMP SPEED** @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

**DRILLER SIGNATURE**

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 08:00 | 08:15 | ¼ | 6 |
| 08:15 | 08:30 | ¼ | 5 |
| 08:30 | 08:45 | ¼ | 7 |
| 08:45 | 10:15 | 1½ | 6 |
| 10:15 | 15:45 | 5½ | 5 |
| 15:45 | 16:00 | ¼ | 21 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

RIH F/1200 - 1520m
Fill pipe, break circulation
R/S Func. Top pipe 3sec
RIH F/1520 - 2470 - Fill pipe
RIH F/2470 - 3128m
Break circulation wash to 3146m condition mud
Held safety meeting before Drillout

NOTES: √Crown Saver, deadline anchor, fastline clamp
√Flare Igniter - Crew members Dan SCBA

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 12 | | | 135000 | H2S | |

**DAY TOUR 08:00 TO 16:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Ron Caudieux | 8 | | ✓ |
| DERRICKMAN | | Terry Foley | 8 | | ✓ |
| MOTORMAN | | Kevin Vandenbrand | 8 | | ✓ |
| FLOORMAN | | Julien Sassie | 8 | | ✓ |
| FLOORMAN | | Gerald Gilbert | 8 | | ✓ |
| LEASEMAN | | Lawrence Loreen | 8 | | ✓ |
| Lease | | Bert Timbre | 8 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

## EVENING TOUR

**METRES DRILLED**

| FROM | TO | DR.O. R&R CORE C. | ROTARY R.P.M. | WT. ON BIT (1000 daN) |
|---|---|---|---|---|
| 3147 | 3150 | 3 | 40 | 4/8 |

CIRCULATION PRESSURE (kPa) | PUMP NO. 1 LINER SIZE (mm) | PUMP NO. 1 S.P.M. | PUMP NO. 2 LINER SIZE (mm) | PUMP NO. 2 S.P.M.
8000 | 152 | 90 | 152 | |

**REDUCED PUMP SPEED** @ @

**DEVIATION SURVEY**

| DEPTH (m) | DEVIATION (°) | DIRECTION |
|---|---|---|

**DRILLER SIGNATURE** Gary Patrick

**TIME LOG**

| FROM | TO | ELAP. TIME | CODE NO. |
|---|---|---|---|
| 16:00 | 16:15 | ¼ | 21 |
| 16:15 | 18:15 | 2 | 2 |
| 18:15 | 18:30 | ¼ | 24 |
| 18:30 | 19:00 | ½ | 5 |
| 19:00 | 20:30 | 1½ | 25 |
| 20:30 | 24:00 | 3½ | 5 |

**DETAILS OF OPERATION IN SEQUENCE AND REMARKS**

Held Safety meeting before Drillout.
Drillout Shoe Drill New Hole F/3147m - 3150.7
Flow ✓
Circulate, no Gas.
Short Flow / Shut in Well monitor Pressures
Circulate and mix Weight material

NOTES: √Crown Saver, Fastline Clamp, Deadline Anchor.

| BOILER HRS. RAN | BOILER ph | BOILER STACK TEMP. | MAXIMUM EXPERIENCED HOOKLOAD | SAFETY TOPIC | M.A.C.P. |
|---|---|---|---|---|---|
| 0 | | | 135000 DAN | | 1926 834 |

**EVENING TOUR 16:00 TO 24:00** — INJURIES

| CREW | SOC. INS. NO. | NAME | HRS | YES | NO |
|---|---|---|---|---|---|
| DRILLER | | Gary Patrick | 8 | | ✓ |
| DERRICKMAN | | Mike Watrich | 8 | | ✓ |
| MOTORMAN | | Wendell Bethel | 8 | | ✓ |
| FLOORMAN | | Richard CZARNECKI | 8 | | ✓ |
| FLOORMAN | | Tim Byers | 8 | | ✓ |
| LEASEMAN | | Jesse Lessard | 8 | | ✓ |
| RIG WATCH | | | | | |

RATE SCHEDULE ☑ REGULAR ☐ REPAIR ☐ INVERT

CREW SAFETY DAYS

NATIONAL ENERGY BOARD
ENGINEERING BRANCH
SEP 14 1999