

MICROFILMED

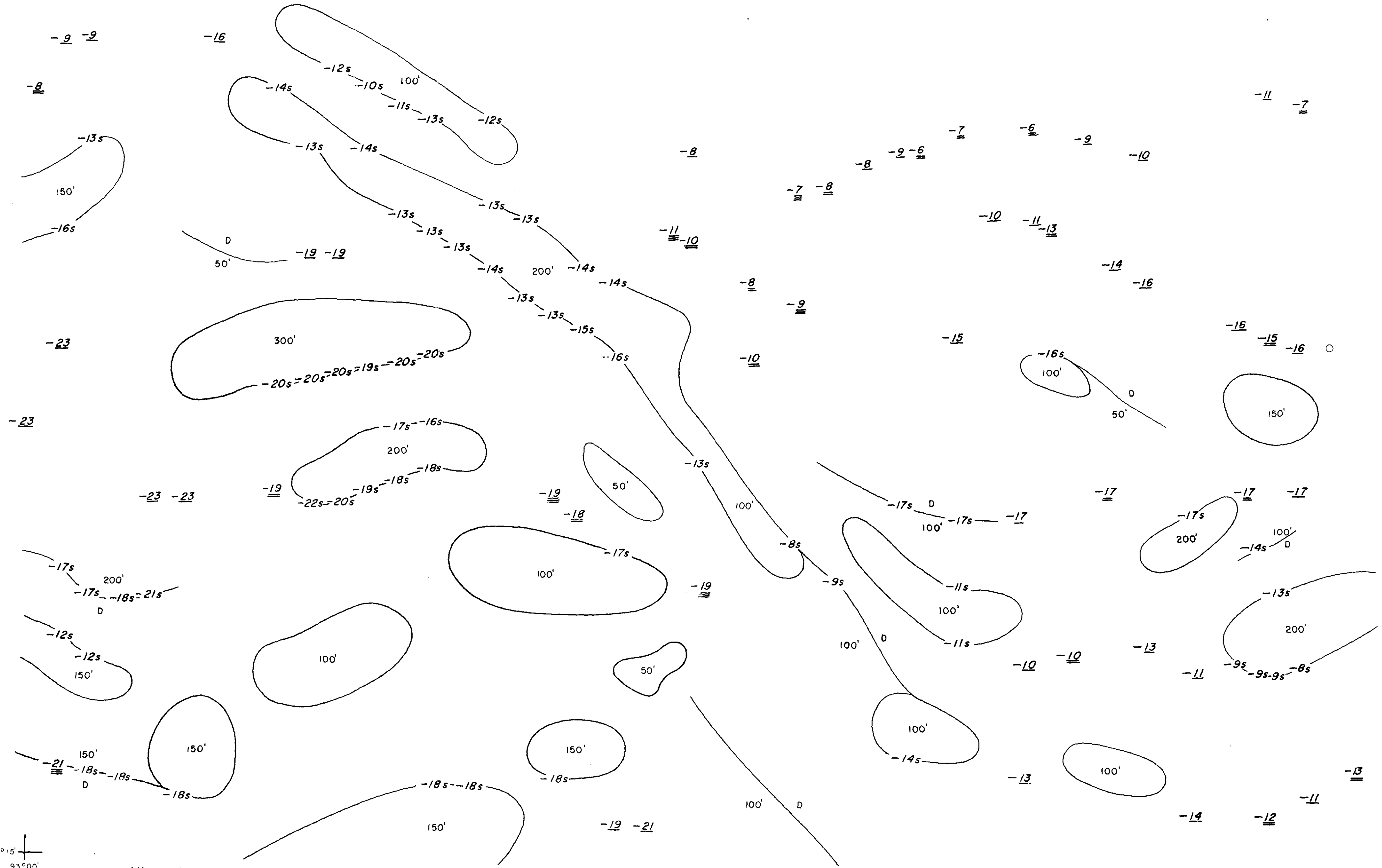
TO

HERE

June 1979.

93°00'
57°30'

92°25'
57°30'



57°15'
93°00'

MERLAND OIL COMPANY OF CANADA LTD

GAI-GMX CANADA LIMITED

20 JULY 1970

57°15'
92°25'



Field Other Areas

Original Drilling License No. 2454

PROVINCE OF MANITOBA

MINES BRANCH

APPLICATION TO {

SUSPEND DRILLING
RESUME DRILLING
RECONDITION
PLUG BACK
SUSPEND PRODUCTION
ABANDON

 } A WELL

(Stroke Out Operations Which Do Not Apply)

Approval is hereby applied for as required by the Regulations under "The Mines Act" R.S.M. 1954, Cap. 166, of the following operations to be commenced on or about

the 14th day of July 19 70, on the well known as

MERLAND et al WHITEBEAR CREEK PROV. STH #1

located at approx. 57° 23' N - 92° 28' W

Permit # 63 standing in the name of North West Oil

CASING RECORD

| | Size O.D. | Weight | Amount | Set | Sacks Cement | Method |
|------------|-----------------|-------------------|--------|-------------|--------------|--------|
| 1st String | <u>H Casing</u> | | | <u>85'</u> | | |
| 2nd String | <u>3 1/2"</u> | <u>(N Casing)</u> | | <u>283'</u> | <u>8.5</u> | |
| 3rd String | | | | | | |

CONDITION OF WELL (Depths)

Total Depth of Well 1401

Perforations: From _____ TO _____

Open Hole: 283 TO 1401

Name of Producing Zone _____

Date of last production _____

Date of last production test _____ G.O.R. _____

W.O.R. _____ Daily Production _____

Reason for Operations Proposed Dry - no shows

Verbal approval for Abandonment

OUTLINE OF OPERATIONS PROPOSED: (Showing proposed plugs, and whether or not casing is to be pulled; if Plug Back show new interval to be perforated).

Cement plug T.D. to surface. With 60 sacks plus 8% gel in six stages. Spotted 5 sacks neat cement in top of casing. Cut off casing 4 feet below ground level.

Operations to be carried out by: Midwest Drilling Address 866 King Edward Street, Winnipeg 21

Responsible agent in field Mr. Frank Blue Address Penthouse, 733 @ 14th Avenue S.W.

Responsible agent, Co. office Mr. P.M. Oley Address 1380 Guinness House, Calgary

Signed by Mr. P.M. Oley Title Manager

Company Merland Exploration Limited at Calgary this 17th day of July 19 70

APPROVAL

This application has been examined and programme of operations approved, subject to the following conditions:

- ~~1. Please advise our Virden office before proposed operations are commenced.~~
2. THE DRILLING BOND WILL NOT BE RELEASED UNTIL THE ABANDONMENT OF THE SITE HAS BEEN INSPECTED AND APPROVED BY THE DEPARTMENT.

Approved: ORIGINAL SIGNER BY
J. S. ROPER.

Director of Mines

Date JUL 20 1970 19 _____

[Signature]
Petroleum Engineering Division

W. NO. 2454

FIELD CA

WELL NAME MERLAND et al WHITE BEAR CREEK PROV. STA. #1

Grd. El. 20.
K.B. 23'
T.D. 1401

CO-ORD. LAT. 57° 22' N
LONG 92° 27' W

Spud June 28 / 70
Fin. Drig. July 12 / 70 4 1/2 (H) @ 90'
Surface Casing 3 1/2 (N) @ 283' x c 8.5'
Production Casing BW @ 600'

D.S.T.

NONE

V.O. FBHP
S.I. SIBHP
G.T.S. HH
V.O. FBHP
S.I. SIBHP
G.T.S. HH
V.O. FBHP
S.I. SIBHP
G.T.S. HH

Logs: E 109

~~Tops: Cretaceous: Favel
Ashville
Jurassic:
" Evap.
" Red Beds
Mississippian Lp.~~

Company-Reported Tops.

Silurian - Upper Ekwan River. 90
Lower Ekwan River. 318
Severn River. 455.
Port Nelson Fm. 718.
Ondevician - Churchill R. Gp. 825
Bod Cache Rapids Gp. 1078.
Precambrian 1298.

Core: ~~FO T.D.~~ 100' - T.D

Perfs.: "

Acidized:

Drilling Contractor: MIDWEST DRILLING ABD. STA July 14 / 70.

DATA COMPLETE

MONTHLY SCHEDULE FOR

PROVINCE OF MANITOBA MINES BRANCH

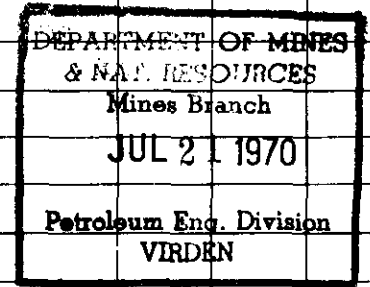
DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. *114V* LOCATION *MORHAUS and WHITE BEAR STR #1* AREA *Hudson Bay* DATE *14 July 1970*

| Tour — Midnight - 8 a.m. | | | | | | | | | | | | REMARKS | | | Time | | |
|-----------------------------|--|-------|---------|------|----------------|------------------------------|---------------|--------|-------------|------|-------------|-------------------------|-----------|-------|------------------|----------|--|
| Specify actual hours worked | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | FUEL | WATER | COAL | Stands | Start | Stop | Interval | |
| | | No. | Size | Type | Size Jets | Serial No. | Weight | R.P.M. | Ft. Drilled | Hrs. | Feet Reamed | Hrs. | CONDITION | | | | |
| Driller <i>J. D. AGEE</i> | | 1401. | | | | | | | | | | | | | | | |
| Derrick <i>J. PICARD</i> | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| Tour — 8 a.m. to 4 p.m. | | | | | | | | | | | | Company Time | | | Cont'r Time | | |
| Specify actual hours worked | | | | | | | | | | | | Put down 3Q rods - | | | | | |
| Driller <i>St Louis</i> | | | | | | | | | | | | prepare to abandon - | | | | | |
| Derrick <i>FAVREAU</i> | | | | | | | | | | | | Drop cement in six | | | | | |
| Floor | | | | | | | | | | | | stages and plug hole | | | | | |
| Floor | | | | | | | | | | | | from T.D to surface. | | | 60 SAX. | | |
| Motor | | | | | | | | | | | | Break off cap. 3' below | | | 4' below surface | | |
| Mechanic | | | | | | | | | | | | ground. | | | | | |
| Extra | | | | | | | | | | | | Place 55x cement on | | | | | |
| Injuries: | | | | | | | | | | | | top - | | | | | |
| Fires: | | | | | | | | | | | | Plug down @ 3:30 pm. | | | | | |
| Tour — 4 p.m. to Midnight | | | | | | | | | | | | Company Time | | | Cont'r Time | | |
| Specify actual hours worked | | | | | | | | | | | | | | | | | |
| Driller <i>GREENFIELD</i> | | | | | | | | | | | | | | | | | |
| Derrick <i>COUPE</i> | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |



Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

PROVINCE OF MANITOBA MINES BRANCH

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 117 LOCATION Norland Stal WHITE BEAR STK #1. AREA Hudson Bay DATE 13 July 1970

| Tour — Midnight - 8 a.m. | | From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) | | | | | | | | | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | | | | | |
|-----------------------------|--|---|--|-----|--|------|--|------|--|-----------|--|---------------|--|--------|------|--------|-------|-------------|------|------|--------|-------------|--|------|--|-----------|--|--|--|--|
| Specify actual hours worked | | Hrs. | | No. | | Size | | Type | | Size Jets | | Serial No. | | Weight | | R.P.M. | | Ft. Drilled | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | D. Collars | | |
| Driller <u>J. DAGG</u> | | 1401 | | | | | | | | | | | | | | | | | | | | | | | | | | W. O. Logging equipment. | | |
| Derrick <u>V. PICARD</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tour — 8 a.m. to 4 p.m. | | From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) | | | | | | | | | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | | | | | |
| Specify actual hours worked | | Hrs. | | No. | | Size | | Type | | Size Jets | | Serial No. | | Weight | | R.P.M. | | Ft. Drilled | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | D. Collars | | |
| Driller <u>St Louis</u> | | 1401 | | | | | | | | | | | | | | | | | | | | | | | | | | Pull BQ rods - in preparation for logging. Stand rods back. | | |
| Derrick <u>FAURBAU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | W. O. log. EQUIPMENT | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tour — 4 p.m. to Midnight | | From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) | | | | | | | | | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | | | | | |
| Specify actual hours worked | | Hrs. | | No. | | Size | | Type | | Size Jets | | Serial No. | | Weight | | R.P.M. | | Ft. Drilled | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | D. Collars | | |
| Driller <u>GREENFIELD</u> | | 1401 | | | | | | | | | | | | | | | | | | | | | | | | | | loggers equipment on lease 4:30 pm - Run Electric log @ 5:00 pm SP + Rest. - Finished at 11:00 PM. | | |
| Derrick <u>COYLE</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DEPARTMENT OF MINES & NAT. RESOURCES
Mines Branch
JUL 21 1970
Petroleum Eng. Division
VIRIDEN

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by J.P. Meade

PROVINCE OF MANITOBA MINES BRANCH

DAILY DRILLING REPORT

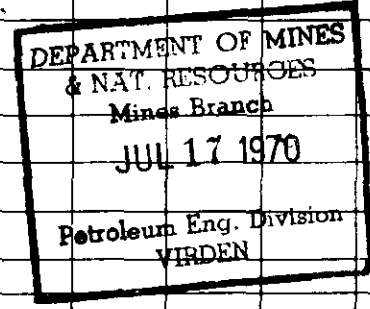
DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 1142 LOCATION Whitebear ck site #1 AREA Hudson Bay DATE 10 July 1970

| Tour — Midnight - 8 a.m. | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | | FUEL | WATER | COAL | Stands |
|-----------------------------|------------|------|---------|----|----------------|------------------------------|---------------|------|------|------|-------|-------|------|--------|
| Specify actual hours worked | | | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | |
| Hrs. | | 1327 | | | | | | | | | | | | |
| Driller | J. DAGY | | | | | | | | | | | | | |
| Derrick | J. DICARD | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | |
| Tour — 8 a.m. to 4 p.m. | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | | FUEL | WATER | COAL | Stands |
| Specify actual hours worked | | | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | |
| Hrs. | | 1327 | | | | | | | | | | | | |
| Driller | Sj. HOGAN | | | | | | | | | | | | | |
| Derrick | FLEUREAU | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | |
| Tour — 4 p.m. to Midnight | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | | FUEL | WATER | COAL | Stands |
| Specify actual hours worked | | | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | |
| Hrs. | | 1327 | | | | | | | | | | | | |
| Driller | GREENFIELD | | | | | | | | | | | | | |
| Derrick | COUPE | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | |

| REMARKS | Time | | |
|--|-------|------|----------|
| | Start | Stop | Interval |
| No shift - hole closed down | | | |
| Same as above | | | |
| Hole reopened. Run in Bx esq. Prepare to core ahead. | | | |
| Company Time | | | |
| Cont'r Time | | | |



Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

PROVINCE OF MANITOBA MINES BRANCH

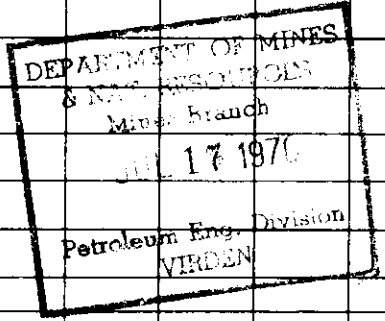
DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 1147 LOCATION White Bear Cl. STN #1 AREA Hudson Bay DATE July 9 1970

| Tour — Midnight - 8 a.m. | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | FUEL | WATER | COAL | Stands | REMARKS | Time | | |
|-----------------------------|------------|----------|---------|---------|----------------|------------------------------|---------------|------|-------------------|-------------|-------|-----------------|--------|--|-------|----------|----------|
| Specify actual hours worked | Hrs. | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | Start | | Stop | Interval | |
| Driller | DAGG | 1154 | 90 | 1244 | | | | | | | | | | Coring B.Q. | | | |
| Derrick | PICARD | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| MUD | | 12 Mn. | 2 a.m. | 4 a.m. | 6 a.m. | Additives | | | At Surveys Degree | MOTOR HOURS | | Next Oil Change | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | |
| PUMPS | No. 1 | Pressure | | | | | | | | | | | | | | | |
| | Model | S.P.M. | | | | | | | | | | | | | | | |
| PUMPS | No. 2 | Pressure | | | | | | | | | | | | | | | |
| | Model | S.P.M. | | | | | | | | | | | | | | | |
| W.L. | | F.C. | pH. | | | | | | | | | | | | | | |
| Tour — 8 a.m. to 4 p.m. | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | FUEL | WATER | COAL | Stands | REMARKS | Time | | |
| Specify actual hours worked | Hrs. | | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | | Start | Stop | Interval |
| Driller | ST. LOUIS | 1244 | 73 | 1317 | | | | | | | | | | Coring B.Q. | | | |
| Derrick | FARLEAU | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| MUD | | 8 a.m. | 10 a.m. | 12 Noon | 2 p.m. | Additives | | | At Surveys Degree | MOTOR HOURS | | Next Oil Change | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | |
| PUMPS | No. 1 | Pressure | | | | | | | | | | | | | | | |
| | Model | S.P.M. | | | | | | | | | | | | | | | |
| PUMPS | No. 2 | Pressure | | | | | | | | | | | | | | | |
| | Model | S.P.M. | | | | | | | | | | | | | | | |
| W.L. | | F.C. | pH. | | | | | | | | | | | | | | |
| Tour — 4 p.m. to Midnight | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | FUEL | WATER | COAL | Stands | REMARKS | Time | | |
| Specify actual hours worked | Hrs. | | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | | Start | Stop | Interval |
| Driller | GREENFIELD | 1317 | 10 | 1327 | | | | | | | | | | Coring B.Q. Pull BQ Rock BROKE INTO 10'S | | | |
| Derrick | COYNE | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| MUD | | 4 p.m. | 6 p.m. | 8 p.m. | 10 p.m. | Additives | | | At Surveys Degree | MOTOR HOURS | | Next Oil Change | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | |
| PUMPS | No. 1 | Pressure | | | | | | | | | | | | | | | |
| | Model | S.P.M. | | | | | | | | | | | | | | | |
| PUMPS | No. 2 | Pressure | | | | | | | | | | | | | | | |
| | Model | S.P.M. | | | | | | | | | | | | | | | |
| W.L. | | F.C. | pH. | | | | | | | | | | | | | | |



Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

PROVINCE OF MANITOBA MINES BRANCH

DAILY DRILLING REPORT

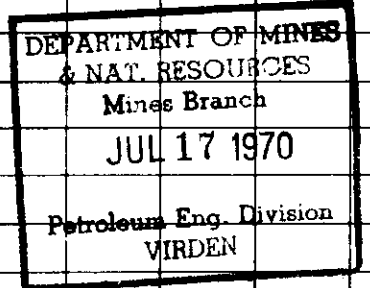
DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 1142 LOCATION White Bear Ch. STR #1 AREA Hudson Bay DATE July 8 1970

| Tear — Midnight - 8 a.m. | | From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) | | | | | | | | | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | | | | | |
|-----------------------------|--|---|--|-----|--|------|--|------|--|-----------|--|---------------|--|--------|------|--------|-------|-------------|------|------|--------|-------------|--|------|--|-----------|--|----------------------------|--|--|
| Specify actual hours worked | | Hrs. | | No. | | Size | | Type | | Size Jets | | Serial No. | | Weight | | R.P.M. | | Ft. Drilled | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | REMARKS | | |
| Driller <u>DAGG</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | <u>W.O.C.</u> | | |
| Derrick <u>PICARD</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | <u>Run BQ rods to 600'</u> | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tear — 8 a.m. to 4 p.m. | | From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) | | | | | | | | | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | | | | | |
| Specify actual hours worked | | Hrs. | | No. | | Size | | Type | | Size Jets | | Serial No. | | Weight | | R.P.M. | | Ft. Drilled | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | REMARKS | | |
| Driller <u>ST. LOUIS</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | <u>Run BQ to bottom</u> | | |
| Derrick <u>PAURBAN</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | <u>Coring BQ</u> | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tear — 4 p.m. to Midnight | | From Footage To Hrs. on Bottom Wt. Drill String (1000 lbs.) | | | | | | | | | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | | | | | |
| Specify actual hours worked | | Hrs. | | No. | | Size | | Type | | Size Jets | | Serial No. | | Weight | | R.P.M. | | Ft. Drilled | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | REMARKS | | |
| Driller <u>GREENFIELD</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | <u>Coring BQ</u> | | |
| Derrick <u>COYLE</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Totco Ring on Bit No. _____ D.P. Caliper Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____



J. A. Bone

PROVINCE OF MANITOBA MINES BRANCH

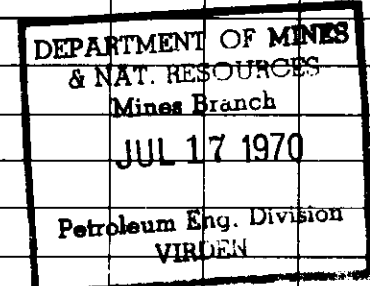
DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 1172 LOCATION White Bear Ch 5TH #1 AREA Audon Bay DATE July 6 1970

| Tour — Midnight - 8 a.m. | | From 727 To 785 | | | | | | | | | | REMARKS | | Time | | |
|-----------------------------|--|------------------------------|--|--|--|--|--|--|--|--|--|--------------------|--|-------------|------|----------|
| Specify actual hours worked | | Footage 58 | | | | | | | | | | Coring NQ | | Start | Stop | Interval |
| Hrs. | | Hrs. on Bottom | | | | | | | | | | Stands | | | | |
| Driller <u>DAGG</u> | | Wt. Drill String (1000 lbs.) | | | | | | | | | | Singles | | | | |
| Derrick <u>PLCARD</u> | | DRILL COLLARS | | | | | | | | | | D. Collars | | | | |
| Floor | | FUEL | | | | | | | | | | Other Ft. | | | | |
| Floor | | WATER | | | | | | | | | | C.B. Ft. | | | | |
| Floor | | COAL | | | | | | | | | | Subs. Ft. | | | | |
| Motor | | MOTOR HOURS | | | | | | | | | | Ft. Up On Kelly | | | | |
| Mechanic | | Next Oil Change | | | | | | | | | | TOTAL | | | | |
| Extra | | PUMPS | | | | | | | | | | Size | | | | |
| Injuries: | | TRIPS | | | | | | | | | | No. Lines | | | | |
| Fires: | | TON MILES | | | | | | | | | | TOTAL MILES | | | | |
| | | Slip | | | | | | | | | | Feet Left on Spool | | | | |
| | | Next Slip | | | | | | | | | | | | | | |
| | | W.L. | | | | | | | | | | Company Time | | Cont'r Time | | |
| | | F.C. | | | | | | | | | | | | | | |
| | | pH. | | | | | | | | | | | | | | |
| Tour — 8 a.m. to 4 p.m. | | From 785 To 897 | | | | | | | | | | REMARKS | | Time | | |
| Specify actual hours worked | | Footage 112 | | | | | | | | | | Coring NQ | | Start | Stop | Interval |
| Hrs. | | Hrs. on Bottom | | | | | | | | | | Stands | | | | |
| Driller <u>ST LOUIS</u> | | Wt. Drill String (1000 lbs.) | | | | | | | | | | Singles | | | | |
| Derrick <u>FAVLEAU</u> | | DRILL COLLARS | | | | | | | | | | D. Collars | | | | |
| Floor | | FUEL | | | | | | | | | | Other Ft. | | | | |
| Floor | | WATER | | | | | | | | | | C.B. Ft. | | | | |
| Floor | | COAL | | | | | | | | | | Subs. Ft. | | | | |
| Motor | | MOTOR HOURS | | | | | | | | | | Ft. Up On Kelly | | | | |
| Mechanic | | Next Oil Change | | | | | | | | | | TOTAL | | | | |
| Extra | | PUMPS | | | | | | | | | | Size | | | | |
| Injuries: | | TRIPS | | | | | | | | | | No. Lines | | | | |
| Fires: | | TON MILES | | | | | | | | | | TOTAL MILES | | | | |
| | | Slip | | | | | | | | | | Feet Left on Spool | | | | |
| | | Next Slip | | | | | | | | | | | | | | |
| | | W.L. | | | | | | | | | | Company Time | | Cont'r Time | | |
| | | F.C. | | | | | | | | | | | | | | |
| | | pH. | | | | | | | | | | | | | | |
| Tour — 4 p.m. to Midnight | | From 897 To 1004 | | | | | | | | | | REMARKS | | Time | | |
| Specify actual hours worked | | Footage 107 | | | | | | | | | | Coring NQ | | Start | Stop | Interval |
| Hrs. | | Hrs. on Bottom | | | | | | | | | | Stands | | | | |
| Driller <u>GREENFIELD</u> | | Wt. Drill String (1000 lbs.) | | | | | | | | | | Singles | | | | |
| Derrick <u>COYLE</u> | | DRILL COLLARS | | | | | | | | | | D. Collars | | | | |
| Floor | | FUEL | | | | | | | | | | Other Ft. | | | | |
| Floor | | WATER | | | | | | | | | | C.B. Ft. | | | | |
| Floor | | COAL | | | | | | | | | | Subs. Ft. | | | | |
| Motor | | MOTOR HOURS | | | | | | | | | | Ft. Up On Kelly | | | | |
| Mechanic | | Next Oil Change | | | | | | | | | | TOTAL | | | | |
| Extra | | PUMPS | | | | | | | | | | Size | | | | |
| Injuries: | | TRIPS | | | | | | | | | | No. Lines | | | | |
| Fires: | | TON MILES | | | | | | | | | | TOTAL MILES | | | | |
| | | Slip | | | | | | | | | | Feet Left on Spool | | | | |
| | | Next Slip | | | | | | | | | | | | | | |
| | | W.L. | | | | | | | | | | Company Time | | Cont'r Time | | |
| | | F.C. | | | | | | | | | | | | | | |
| | | pH. | | | | | | | | | | | | | | |



Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____

PROVINCE OF MANITOBA MINES BRANCH

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

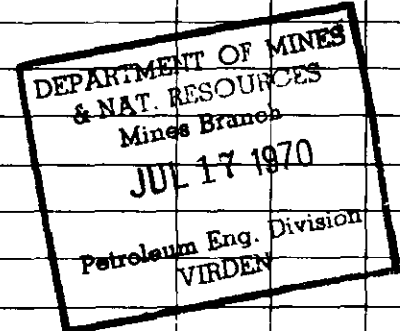
RIG No. 142 LOCATION White Bear Ch STM #1 AREA Hudson Bay DATE July 5 1970

| Tour — Midnight - 8 a.m. | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | | FUEL | WATER | COAL | Stands | | |
|-----------------------------|-------------------|------------|------------|------------|----------------|------------------------------|---------------|------|------|------|-------|--------|------|-------------------|-------------|-----------------|
| Specify actual hours worked | | Hrs. | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbbls. | Tons | | | |
| Driller | <u>DAGG</u> | <u>477</u> | <u>60</u> | <u>537</u> | | | | | | | | | | | | |
| Derrick | <u>PICARD</u> | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | At Surveys Degree | MOTOR HOURS | Next Oil Change |
| WEIGHT | | | | | | | | | | | | | | <u>500</u> | <u>87°</u> | |
| VISCOSITY | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | F.C. | pH. | |
| Tour — 8 a.m. to 4 p.m. | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | | FUEL | WATER | COAL | Stands | | |
| Specify actual hours worked | | Hrs. | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbbls. | Tons | | | |
| Driller | <u>ST. LOUIS</u> | <u>537</u> | <u>80</u> | <u>617</u> | | | | | | | | | | | | |
| Derrick | <u>FAURGAU</u> | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | At Surveys Degree | MOTOR HOURS | Next Oil Change |
| WEIGHT | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | F.C. | pH. | |
| Tour — 4 p.m. to Midnight | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | | FUEL | WATER | COAL | Stands | | |
| Specify actual hours worked | | Hrs. | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbbls. | Tons | | | |
| Driller | <u>GREENFIELD</u> | <u>617</u> | <u>110</u> | <u>729</u> | | | | | | | | | | | | |
| Derrick | <u>COYLE</u> | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | At Surveys Degree | MOTOR HOURS | Next Oil Change |
| WEIGHT | | | | | | | | | | | | | | <u>700</u> | <u>89°</u> | |
| VISCOSITY | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | F.C. | pH. | |

Coring NQ

Coring NQ

Coring NQ



PROVINCE OF MANITOBA MINES BRANCH

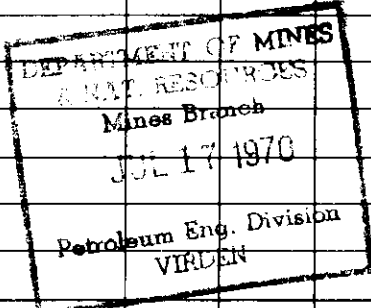
DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 147 LOCATION White Bear Ch. STK #1 AREA Hudson Bay DATE July 4 1970

| Tour — Midnight - 8 a.m. | | From Footage To | | | | | | | | | | Hrs. on Bottom | | DRILL COLLARS | | | | FUEL | | WATER | | COAL | Stands | | | | | | |
|-----------------------------|--|-----------------|--|-----|--|------|--|------|--|-----------|--|----------------|--|---------------|--|--------|--|-------------|--|-------|--|-------------|--------|------|--|--------------------------------|---------|--|--|
| Specify actual hours worked | | Hrs. | | No. | | Size | | Type | | Size Jets | | Serial No. | | Weight | | R.P.M. | | Ft. Drilled | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | Singles | | |
| Tour — Midnight - 8 a.m. | | Hrs. | | 303 | | 11 | | 314 | | | | | | | | | | | | | | | | | | Remarks: <u>Corey ahead NQ</u> | | | |
| Driller <u>DAGG</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Derrick <u>PICARD</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.P.M. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tour — 8 a.m. to 4 p.m. | | Hrs. | | 314 | | 83 | | 397 | | | | | | | | | | | | | | | | | | Remarks: <u>Corey NQ</u> | | | |
| Driller <u>ST. LOUIS</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Derrick <u>FAUREAU</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.P.M. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tour — 4 p.m. to Midnight | | Hrs. | | 397 | | 80 | | 477 | | | | | | | | | | | | | | | | | | Remarks: <u>Corey NQ</u> | | | |
| Driller <u>GREENFIELD</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Derrick <u>COYLE</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MUD | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WEIGHT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| VISCOSITY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GEL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PUMPS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| No. 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S.P.M. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| General | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| W.L. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F.C. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| pH. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by [Signature]

PROVINCE OF MANITOBA MINES BRANCH

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 117 LOCATION *White Bear Ch 3TH #1*

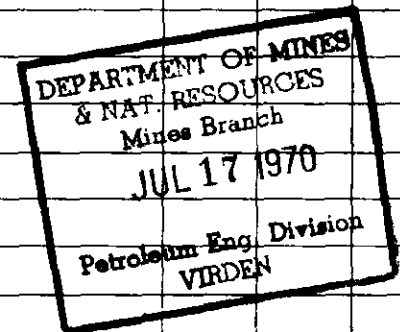
AREA *Audon Bay* DATE *July 3 1970*

| Tour — Midnight - 8 a.m. | | From Footage To | | | | | | | | | | Hrs. on Bottom | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | |
|-----------------------------|--|-----------------|--|--|--|--|--|--|--|--|--|-------------------|--|--|--|--|-----------------|--|-------------|--|-------------|--|------------------|--|--------------------|--|-----------|--|
| Specify actual hours worked | | 303 | | | | | | | | | | | | No. O.D. I.D. Wgt. | | | Gals. | | Bbls. | | Tons | | Singles | | | | | |
| Driller <i>DAGG</i> | | BITS | | | | | | | | | | Hrs. | | No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled | | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | | | | |
| Derrick <i>PICARD</i> | | | | | | | | | | | | | | | | | | | | | | | D. Collars | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | Other Ft. | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | C.B. Ft. | | | | | |
| Floor | | MUD | | | | | | | | | | At Surveys Degree | | MOTOR HOURS | | | Next Oil Change | | Subs. Ft. | | | | | | | | | |
| Motor | | WEIGHT | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Mechanic | | VISCOSITY | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Extra | | GEL | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Injuries: | | PUMPS | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Fires: | | No. 1 Pressure | | | | | | | | | | | | 5 | | | | | | | | | | | | | | |
| | | Model S.P.M. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Liner Size | | | | | | | | | | Size | | TRIPS | | | No. Lines | | TON MILES | | TOTAL MILES | | Slip Feet or Cut | | Feet Left on Spool | | Next Slip | |
| | | No. 2 Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Model S.P.M. | | | | | | | | | | | | General | | | | | | | | | | | | | | |
| | | Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | W.L. F.C. pH. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tour — 8 a.m. to 4 p.m. | | From Footage To | | | | | | | | | | Hrs. on Bottom | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | |
| Specify actual hours worked | | 303 | | | | | | | | | | | | No. O.D. I.D. Wgt. | | | Gals. | | Bbls. | | Tons | | Singles | | | | | |
| Driller <i>S. LOUIS</i> | | BITS | | | | | | | | | | Hrs. | | No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled | | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | | | | |
| Derrick <i>FAURIEAU</i> | | | | | | | | | | | | | | NQ D.D. | | | | | | | | | D. Collars | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | Other Ft. | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | C.B. Ft. | | | | | |
| Floor | | MUD | | | | | | | | | | At Surveys Degree | | MOTOR HOURS | | | Next Oil Change | | Subs. Ft. | | | | | | | | | |
| Motor | | WEIGHT | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Mechanic | | VISCOSITY | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Extra | | GEL | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Injuries: | | PUMPS | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Fires: | | No. 1 Pressure | | | | | | | | | | | | 5 | | | | | | | | | | | | | | |
| | | Model S.P.M. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Liner Size | | | | | | | | | | Size | | TRIPS | | | No. Lines | | TON MILES | | TOTAL MILES | | Slip Feet or Cut | | Feet Left on Spool | | Next Slip | |
| | | No. 2 Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Model S.P.M. | | | | | | | | | | | | General | | | | | | | | | | | | | | |
| | | Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | W.L. F.C. pH. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tour — 4 p.m. to Midnight | | From Footage To | | | | | | | | | | Hrs. on Bottom | | DRILL COLLARS | | | FUEL | | WATER | | COAL | | Stands | | | | | |
| Specify actual hours worked | | 303 | | | | | | | | | | | | No. O.D. I.D. Wgt. | | | Gals. | | Bbls. | | Tons | | Singles | | | | | |
| Driller <i>GREENFIELD</i> | | BITS | | | | | | | | | | Hrs. | | No. Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled | | | Hrs. | | Feet Reamed | | Hrs. | | CONDITION | | | | | |
| Derrick <i>COYLE</i> | | | | | | | | | | | | | | NQ | | | | | | | | | D. Collars | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | Other Ft. | | | | | |
| Floor | | | | | | | | | | | | | | | | | | | | | | | C.B. Ft. | | | | | |
| Floor | | MUD | | | | | | | | | | At Surveys Degree | | MOTOR HOURS | | | Next Oil Change | | Subs. Ft. | | | | | | | | | |
| Motor | | WEIGHT | | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| Mechanic | | VISCOSITY | | | | | | | | | | | | 2 | | | | | | | | | | | | | | |
| Extra | | GEL | | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| Injuries: | | PUMPS | | | | | | | | | | | | 4 | | | | | | | | | | | | | | |
| Fires: | | No. 1 Pressure | | | | | | | | | | | | 5 | | | | | | | | | | | | | | |
| | | Model S.P.M. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Liner Size | | | | | | | | | | Size | | TRIPS | | | No. Lines | | TON MILES | | TOTAL MILES | | Slip Feet or Cut | | Feet Left on Spool | | Next Slip | |
| | | No. 2 Pressure | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Model S.P.M. | | | | | | | | | | | | General | | | | | | | | | | | | | | |
| | | Liner Size | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | W.L. F.C. pH. | | | | | | | | | | | | | | | | | | | | | | | | | | |

W.O.C.

Putting down rods and drilling thru cement (drilling out plug) coring ahead with NQ!

Same as above



Licence No. 2454

Well No. Merland et al Whitebear Casing Record: _____ Date July 2
Creek Prov. STH #1
Drig. Contr. Midwest Grd. Elev. 20' Spudded June 26 (3:00 PM)
K.B. Elev. 23' T.D. 303'

| No. of joints | Size | Weight | Grade | Range | New/Used | Make | Set at | Cement | % CaCl ₂ % Gel | Method | Return |
|---------------|---------|--------|-------|-------|----------|------|--------|---------|---------------------------|--------|--------|
| 9 | 4½ (H) | — | — | 1 | N | — | 90 | 0 | (Set on bottom) | | |
| 28 | 3½" (N) | — | — | 1 | N | | 283' | 8.5 sax | 4% CaCl ₂ | Disp. | None |

REMARKS: July 3 : Cemented down annulus of H & N csg. w/5½ sax cement.

Company Representative: _____

Contractor Representative Jim Daark

Cementing Company: _____ Operator: _____

Board Representative: G. E. Johnson

Board Time: 7 days



PROVINCE OF MANITOBA MINES BRANCH

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 1172 LOCATION White Bear Ch. #1 STM

AREA Hudson Bay DATE July 2 1970

| Tour — Midnight - 8 a.m. | | | | | | | | | | | | REMARKS | | Time | | | |
|-----------------------------|------------|-----------|---------|----|----------------|------------------------------|---------------|------|------|------|-------|--|-------------|-----------------|------|----------|--|
| Specify actual hours worked | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | FUEL | WATER | COAL | Stands | Start | Stop | Interval | |
| | | | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | | | | |
| Hrs. | | 303 | | | | | | | | | | W.O.C. | | | | | |
| Driller | DAGG | | | | | | | | | | | | | | | | |
| Derrick | PICARD | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| | | MUD | | | | | | | | | | At Surveys Degree | MOTOR HOURS | Next Oil Change | | | |
| | | WEIGHT | | | | | | | | | | | 1 | | | | |
| | | VISCOSITY | | | | | | | | | | | 2 | | | | |
| | | GEL | | | | | | | | | | | 3 | | | | |
| | | PUMPS | | | | | | | | | | | 4 | | | | |
| | | PUMPS | | | | | | | | | | | 5 | | | | |
| | | W.L. | | | | | | | | | | F.C. | pH. | | | | |
| | | W.L. | | | | | | | | | | F.C. | pH. | | | | |
| Tour — 8 a.m. to 4 p.m. | | | | | | | | | | | | REMARKS | | Time | | | |
| Specify actual hours worked | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | FUEL | WATER | COAL | Stands | Start | Stop | Interval | |
| | | | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | | | | |
| Hrs. | | 303 | | | | | | | | | | Cemented H and N casing from top. W.O.C. | | | | | |
| Driller | ST. LOUIS | | | | | | | | | | | | | | | | |
| Derrick | FAUREAU | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| | | MUD | | | | | | | | | | At Surveys Degree | MOTOR HOURS | Next Oil Change | | | |
| | | WEIGHT | | | | | | | | | | | 1 | | | | |
| | | VISCOSITY | | | | | | | | | | | 2 | | | | |
| | | GEL | | | | | | | | | | | 3 | | | | |
| | | PUMPS | | | | | | | | | | | 4 | | | | |
| | | PUMPS | | | | | | | | | | | 5 | | | | |
| | | W.L. | | | | | | | | | | F.C. | pH. | | | | |
| | | W.L. | | | | | | | | | | F.C. | pH. | | | | |
| Tour — 4 p.m. to Midnight | | | | | | | | | | | | REMARKS | | Time | | | |
| Specify actual hours worked | | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | FUEL | WATER | COAL | Stands | Start | Stop | Interval | |
| | | | | | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | | | | |
| Hrs. | | 303 | | | | | | | | | | W.O.C. | | | | | |
| Driller | GREENFIELD | | | | | | | | | | | | | | | | |
| Derrick | COYLE | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| | | MUD | | | | | | | | | | At Surveys Degree | MOTOR HOURS | Next Oil Change | | | |
| | | WEIGHT | | | | | | | | | | | 1 | | | | |
| | | VISCOSITY | | | | | | | | | | | 2 | | | | |
| | | GEL | | | | | | | | | | | 3 | | | | |
| | | PUMPS | | | | | | | | | | | 4 | | | | |
| | | PUMPS | | | | | | | | | | | 5 | | | | |
| | | W.L. | | | | | | | | | | F.C. | pH. | | | | |
| | | W.L. | | | | | | | | | | F.C. | pH. | | | | |

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher *Dagg*

B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by *[Signature]*

PROVINCE OF MANITOBA MINES BRANCH

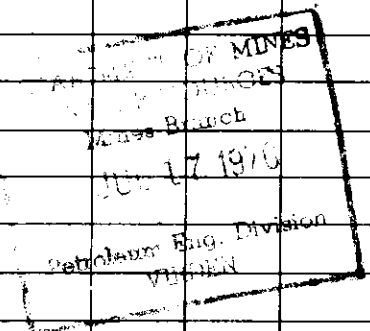
DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 117 LOCATION MERLAND WHITEBEAR CK. ST# 1 AREA Hudson Bay DATE 1 July 1970

| Tour — Midnight - 8 a.m. | | | | | | | | | | | | REMARKS | | | Time | | |
|-----------------------------|------------|---|---------|-----|----------------|------------------------------|---------------|------|------|------|-------|--|--------|-------|---|----------|--|
| Specify actual hours worked | Hrs. | From | Footage | To | Hrs. on Bottom | Wt. Drill String (1000 lbs.) | DRILL COLLARS | | | FUEL | WATER | COAL | Stands | Start | Stop | Interval | |
| | | | | 308 | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | | | | |
| Driller | DAGG | | | | | | | | | | | | | | | | |
| Derrick | PICARD | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| | | BITS No. 1 Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled 1 NW shoe cemented in hole. | | | | | | | | | | D. Collars Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly TOTAL | | | Mudding up - Lost CIR - TRYING TO Regain CIR - Drop cement plug. W.O.C. | | |
| | | MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives 55x const. Cement 55x Kirk Seal. | | | | | | | | | | At Surveys Degree MOTOR HOURS Next Oil Change | | | | | |
| | | PUMPS No. 1 Pressure S.P.M. Model No. 2 Pressure S.P.M. Model Liner Size General | | | | | | | | | | Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip | | | | | |
| | | W.L. F.C. pH. | | | | | | | | | | Company Time Cont'r Time | | | | | |
| Tour — 8 a.m. to 4 p.m. | | | | | | | | | | | | REMARKS | | | Time | | |
| | | | | 303 | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | | | | |
| Driller | A. LAUREN | | | | | | | | | | | | | | | | |
| Derrick | FAUREAU | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| | | BITS No. 1 Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled 1 NW shoe cemented in hole. | | | | | | | | | | D. Collars Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly TOTAL | | | W.O.C. N casing run to 283 only. stuck there. (July 2 not July 1) | | |
| | | MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives | | | | | | | | | | At Surveys Degree MOTOR HOURS Next Oil Change | | | | | |
| | | PUMPS No. 1 Pressure S.P.M. Model No. 2 Pressure S.P.M. Model Liner Size General | | | | | | | | | | Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip | | | | | |
| | | W.L. F.C. pH. | | | | | | | | | | Company Time Cont'r Time | | | | | |
| Tour — 4 p.m. to Midnight | | | | | | | | | | | | REMARKS | | | Time | | |
| | | | | 303 | | | No. | O.D. | I.D. | Wgt. | Gals. | Bbls. | Tons | | | | |
| Driller | GREENFIELD | | | | | | | | | | | | | | | | |
| Derrick | COYLE | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Floor | | | | | | | | | | | | | | | | | |
| Motor | | | | | | | | | | | | | | | | | |
| Mechanic | | | | | | | | | | | | | | | | | |
| Extra | | | | | | | | | | | | | | | | | |
| Injuries: | | | | | | | | | | | | | | | | | |
| Fires: | | | | | | | | | | | | | | | | | |
| | | BITS No. 1 Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled No. 2 Size Type Size Jets Serial No. Weight R.P.M. Ft. Drilled | | | | | | | | | | D. Collars Other Ft. C.B. Ft. Subs. Ft. Ft. Up On Kelly TOTAL | | | W.O.C. | | |
| | | MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives | | | | | | | | | | At Surveys Degree MOTOR HOURS Next Oil Change | | | | | |
| | | PUMPS No. 1 Pressure S.P.M. Model No. 2 Pressure S.P.M. Model Liner Size General | | | | | | | | | | Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet or Cut Feet Left on Spool Next Slip | | | | | |
| | | W.L. F.C. pH. | | | | | | | | | | Company Time Cont'r Time | | | | | |



Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ Total Contractor Time _____ Hrs. Toolpusher _____
 B.O.P. Test-Operated _____ Time _____ Results _____ Total Company Time _____ Hrs. Approved by _____



MANITOBA

**DEPARTMENT OF MINES AND NATURAL RESOURCES
MINES BRANCH**

DIRECTOR'S OFFICE
901 NORQUAY BUILDING,
401 YORK AVENUE, WINNIPEG 1

License No: _____
2454

Application for License to Drill new well

Merland et al Whitebear Creek Prov. STH #1

In addition to the technical requirements governing the drilling of the hole and laid down by the Petroleum Division, the following rules will apply to all personnel connected with this project for its duration:

- (1) Only persons authorized by W. C. McLean, Regional Director, will be permitted to have firearms at this site.
- (2) There shall be no shooting at polar bears except in self defence.
- (3) No surface vehicles will be permitted in camp except a small tractor, which shall remain in the beach area until the drilling operation is completed.
- (4) Garbage will be deposited at least one-half mile from camp, burned and buried.
- (5) All activities pertaining to this operation, from site preparation to hole abandonment, will be under the direction of W. C. McLean and G. E. Johnson.

Mr. W. C. McLean should be contacted if any problems develop with wildlife in the area.

June 9, 1970

MIDWEST DRILLING COMPANY



866 KING EDWARD STREET / WINNIPEG 21, CANADA / AREA CODE 204 / TELEPHONE 786-1431 / TELEX 03-5388

May 14th, 1970.

Mines Branch,
Dept. of Mines & Natural Resources,
901 Norquay Building,
Winnipeg, Manitoba.

DEPARTMENT OF MINES
& NATURAL RESOURCES

MAY 15 1970

DIRECTOR OF MINES

Attention: Mr. J. Roper.

Dear Sir:

Re: Work Permit.

We would like to make an application for a work permit to drill a well to explore for oil and gas at the mouth of White Bear Creek in Northern Manitoba, (57 degrees, 22 minutes, north, 92 degrees 27 minutes, west.)

Midwest Drilling Company have contracted to drill this well for (Merland Oil Company of Canada Limited, 360 Bay Street, Toronto, Canada.)

This work will commence in the latter part of May, and Midwest will have six (6) men on site.

Please let me know if you require any additional details.

Yours very truly,

MIDWEST DRILLING COMPANY

M.A. Menard

M.A. Menard
Contract Controller.

MM/ld

cc: Mr. D. Marshall.
Mr. W. Perchaluk.

*Area in to Dept of Min
Worked (Canada) for a
Rocket Recovery Site
visited May 11/77
o/c 1367/68
d Sept 26, 1968*

Page Two
Mr. Martin Monard
May 13, 1970

It will come with two sets of 212-12 rubbers which
will be sized for 1" rod. Please run these through
your lathe to increase the size to fit 3/8 Grill rod.

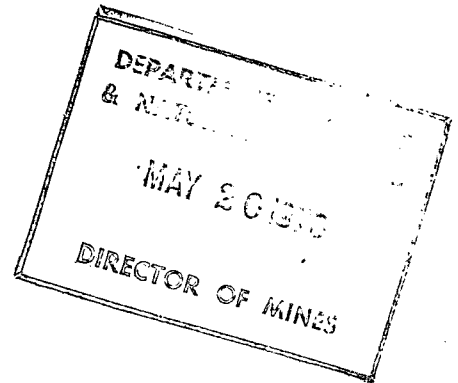
Let me know if you have any problems.

Yours very truly,

F.H. Oley, Manager
Calgary Branch

END:mjw

cc - F. Blue
J. Cameron



May 13, 1970

Mr. Martin Menard
Midwest Drilling Company
266 King Edward Street
Winnipeg 21, Manitoba

Dear Sir:

Re: Harland et al Whitebear Crk SW 81

I am sending you a copy of a schematic diagram showing the well control equipment we will require to drill the Whitebear Creek well. All of the parts required have been ordered and will be delivered to your shop in Winnipeg sometime this month. The only two items which we have not ordered are:

- (a) The double pin sub to cross over from B casing thread to 3" line pipe thread.
- (b) The adaptor sub to change over from 2" line pipe thread to B casing thread so that we can use B casing as a bleed off line if necessary.

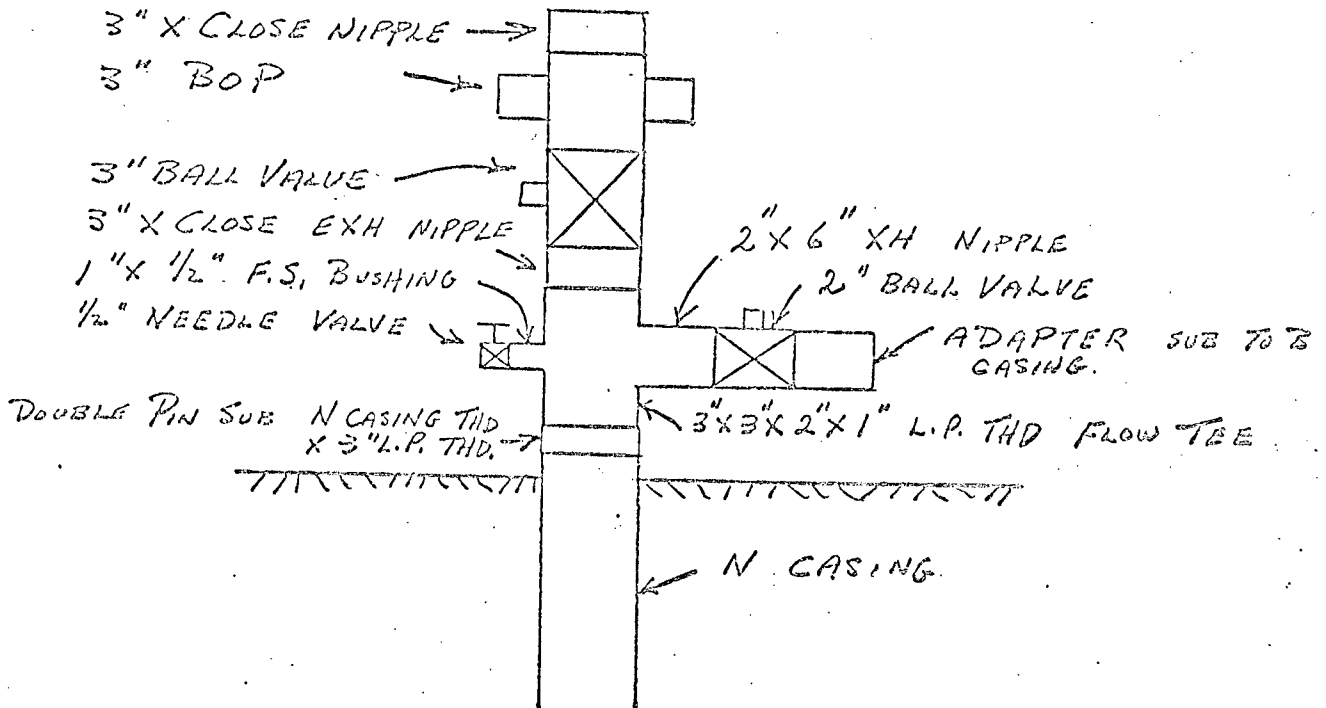
Please purchase or make up these two subs. You will also require a stabbing valve which can be screwed on to the top of the drill rod in case the well wants to blow out and I will leave this to you. Presumably you already have one.

The blow out preventer we have ordered is the Retigan No. 212 shown on the attached sheet.



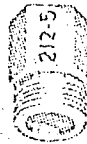
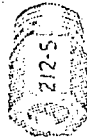
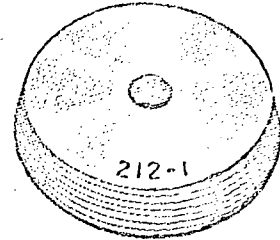
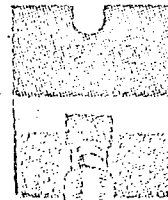
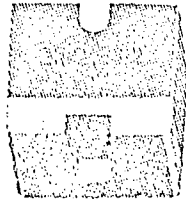
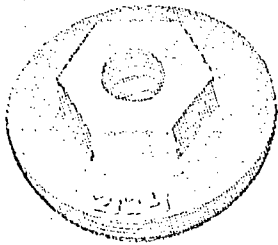
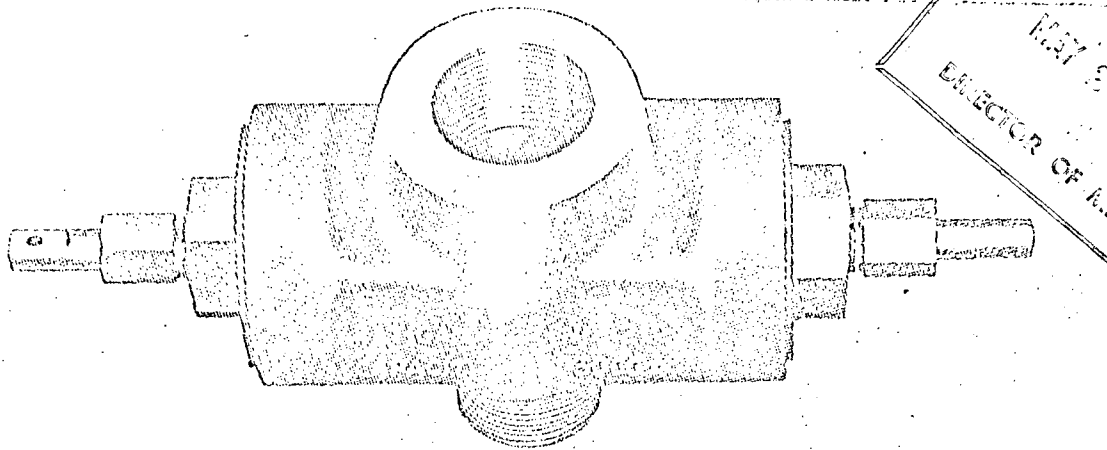
MERLAND EXPLORATIONS LIMITED

SCHEMATIC DIAGRAM OF WELL CONTROL EQUIPMENT
FOR
MERLAND ET AL WHITE BEAR CREEK STH#1



MAY 12/70
[Signature]

RECEIVED
MAY 3 1930
DIRECTOR OF MINES



| Part No. | No. 212 Blowout Preventer | No. Req'd |
|----------|--|-----------|
| 212 | Body | 1 |
| 212- 1 | Plug (specify old new style)..... | 2 |
| 212- 5 | Gland Nut | 2 |
| 212-12 | Rubber | 2 |
| 212-14 | Screw | 2 |
| 212-15 | Screw Packing | 2 |
| 212-16 | Gasket (for old style plug)..... | 2 |

RATIGAN NO. 212 BLOWOUT PREVENTER

Capacity, 3000 Lbs.

We have designed this blowout preventer for maximum safety and convenience in operation. Manufactured of high pressure electric steel, it is comparatively light in weight, of high capacity, and is equipped with retractable rubbers. The No. 212 is an ideal tool for swabbing or running rods in wells that head or flow in the course of operation. Two of these blowout preventers of the same size, with a nipple of any required length in between, make a very efficient unit for swabbing.

The rubbers are changed very quickly by unscrewing the plugs at each end and replacing the used

rubbers. Formerly, the rubber had a larger groove, but we made the groove smaller so that the No. 212-12 rubber would shutoff on any sucker rod $\frac{5}{8}$ " to 1" inclusive and on any polish rod up to and including $1\frac{1}{2}$ " size. The same rubber will handle all these sizes, eliminating the necessity of changing the rubber to accommodate different sizes.

We manufacture the blowout preventer in 2", $2\frac{1}{2}$ " and 3" sizes. The 2" and $2\frac{1}{2}$ " sizes are supplied both plain and upset and can be furnished in male and female or double female. The 3" size is supplied male and female or double female.



PROVINCE OF MANITOBA
 DEPARTMENT OF MINES AND NATURAL RESOURCES
 MINES BRANCH
DRILLING LICENSE

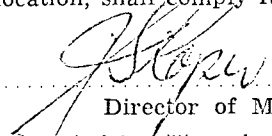
No 2454

IN CONSIDERATION of the sum of \$25.00, the receipt of which is hereby acknowledged, a License to drill Well, known as:

Merland et al. Whitebear Creek Prov. STA #1
 located on *Approximate 57° 22' N - 92° 27' W*
 is hereby granted to *Merland Exploration Limited*
C/o J. K. Cheung, 460 Main St. Winnipeg, B.

subject to the commencement of drilling operations with satisfactory equipment and personnel within ninety days from date of issue and subject further to terms and conditions as set out in Part IV of the Oil and Natural Gas Regulations under "The Mines Act", R.S.M. 1954, Cap. 166, and filed March 28, 1947, as Manitoba Regulation 14/47. The license is issued on the express condition that the licensee before making entry on the surface of the location, shall comply fully with the said regulations.

Date of Issue

11 June 70

 Director of Mines

NOTE:—This license is issued on the understanding that the applicant has legally acquired the drilling and producing rights from the owner of the area described in the application, and does not convey any such rights.

118. (1) Where the director is satisfied that a licensee has committed a breach of any of these regulations, he may cancel or suspend the license for a definite time or indefinitely and he may issue a new license in place of the license so cancelled or suspended.



PROVINCE OF MANITOBA

MINES BRANCH

MAY 19-70 License No. ^{NINE} 75049 *****25.00

2454
11/6/70

APPLICATION FOR LICENSE TO DRILL NEW WELL

This application in quadruplicate, accompanied by the required license fee and four copies of plan of certified survey must be submitted and approved before commencing operations.

Manitoba, May 5 19 70

In compliance with Drilling and Production Regulations being Part IV of the Oil and Natural Gas Regulations under "The Mines Act", R.S.M. 1954, Cap. 166, application is hereby made for a license to drill:

Merland et al Whitebear Creek STB #1
(Name and Number of Well)

By **Merland Explorations Limited**
(Insert name of applicant company, firm or individual)

Surface location: L.S. _____ Section _____ Township _____ Range _____

West of _____ Meridian. **Approximately 57° 22' N 92° 27' W - near the mouth of Whitebear Creek**
(North of South)
_____ feet (South of North) boundary of _____

(East of West)
_____ feet (West of East) boundary of _____

Area assigned to Well _____

Lease comprises _____ being ^(To be assigned by Director of Mines) ~~399-407~~ ^{31 365} acres. **Permit** ⁶³ Lease Number ~~59-65 and 67~~
(If Crown Land)

Leased, subleased or assigned from **Northwest Oils Ltd.**

Oil and natural gas rights owned by **Crown**

The elevation of the ^(ground surface) ~~surface~~ is **estimated 20** feet above sea level.

Well is ^{to be abandoned with cement plug from T.D. to surface.} ~~expected to produce from~~ **Ordovician** formation at a depth of about ~~3000~~ feet. *ALC*

CUT OFF CASING 3 ft below surface, level and clean up site.
We propose to use the following strings of casing, either cementing or landing them as below indicated.

| Casing Size Inches | Weight Lbs./Ft. | Grade | Brand | New or Used | Estimated Depth | Sacks of Cement |
|---|-----------------|-----------|-------|-------------|-----------------|-------------------|
| 1. 3-1/2 | 86 | NK | | New | 300 | 3 ORDER 20 |
| 2. | | | | | | |
| 3. | | | | | | |
| 4. LOGGING REQUIREMENTS - ELECTRIC LOG TO BE RUN | | | | | | |

Expected Water, Gas and Oil Horizons and Method of Control: **Possible horizons in Silurian and Ordovician to be controlled by BOP and drilling fluid. Install non-return valve between water swivel and hose to control possible blow-back of water.**

Well will be drilled with ^(rotary) ~~cable~~ tools by **Midwest Drilling**
(Drilling contractor or company)

Responsible agent of applicant:

At Well: **Mr. Frank Blue** 208 - 718 Eighth Avenue S.W. **Calgary 2, Alberta**
At registered Manitoba Office: **Mr. Ted Charne** (Registered) 460 Main Street - Winnipeg

It is understood that if changes in this plan become necessary we will promptly notify you.

Dated at **Winnipeg** this 5TH day of May 19 70

Signed by *[Signature]*
(To be signed by duly authorized officer or agent of the applicant or by applicant personally)
P.M. Oley

Approved — *[Signature]*
Chief Mining Recorder

Approved — *[Signature]*
Director of Mines

Kindly read the Excerpts from Drilling and Production Regulations Part IV of Manitoba Regulation 14/47 on reverse side before completing this form.

The attached conditions ^{By cheque} become an integral part of this license.

CB 34
2-51

28

EXCERPTS FROM DRILLING AND PRODUCTION REGULATIONS

Regulations under "The Mines Act", R.S.M. 1954, Cap. 166, respecting Drilling and Production Operations of Oil and Natural Gas Wells.

109. (1) No person shall commence to drill any well or undertake any operation preparatory or incidental to the drilling of a well, or continue any drilling or producing operations at a well unless he holds a license for such purpose, issued pursuant to these regulations:

(2) No person shall carry on drilling operations at a point other than that specified in his license.

110. (1) Application for a license shall be made to the chief mining recorder but shall be subject to the approval of the director; and

(2) The application shall be supported by such evidence as the director may require, including:—

(a) the proposed programme of the drilling operations;

(b) the location of the point at which it is proposed to drill the well;

(c) where the proposed well is located in any tract already held by some person by assignment or lease, a copy of the assignment or sublease from the original lessee or other satisfactory evidence of the applicant's right to drill at the point applied for.

117. (1) The director or anyone authorized by him, shall at all times have access to all wells, records, plants and equipment and shall have the right to take samples and particulars or to carry out any test or examination desired;

(2) The operator of a well or of drilling operations at a well shall render such officer any assistance that may be required;

(3) Every official authorized by the director to exercise any of such powers shall have, at all times while exercising such powers, a certificate of authority signed by the director, and shall produce the certificate on demand.

120. The surface location of every drilled well shall be as nearly as possible, in the centre of the area assigned to such well in accordance with section 119, but where surface conditions or other circumstance so justify the director may permit the well to be located outside the centre of the assigned area, provided that in no event shall a surface location be nearer to the boundary of the assigned area than one-half the distance from the centre of the assigned area to the boundary thereof.

122. Except where special circumstances exist which, in the opinion of the director, justify such action, no license shall be granted for drilling a well within:

(a) Three hundred and thirty feet of the nearest boundary of the area of the oil and natural gas rights which are owned or controlled by the operator; or

(b) Three hundred and thirty feet of any road allowance, surveyed road, railway, dwelling, school or church.

123. (1) A well shall not penetrate any part of the producing horizon at a point nearer to the interior boundary of the legal subdivision or other area assigned to the particular well, than one-half the distance from the centre of the area to the boundary of the area;

(2) Where a well is drilled upon an approximately square forty acre tract, the producing horizon shall be penetrated at a point within the square comprising the ten central acres of the tract;

(3) Where in a particular tract the director has prescribed surface locations at points other than in the centre of an approximately forty acre tract, the provisions of subsection (2) shall not apply, but such a well shall not penetrate any part of the producing horizon at a point nearer to the boundary of the legal subdivision or assigned area, than one half the distance from the top of the well to the nearest boundary;

(4) Where the director, in accordance with section 121, has fixed the surface location of a well at a point outside the limits prescribed in section 120, the director may order the operator to so directionally drill such well as to assure the penetration of the horizon at a point in compliance with subsection (3) of this section.

133. (1) The equipment of all wells shall include:—

(a) On the subsurface equipment, a pin collar or its equivalent, appended to the lower end of the production string or tubing as a safeguard against the loss of testing equipment;

(b) On the surface equipment, such valve connections as are necessary to sample oil, natural gas, or water being produced;

(c) For sampling gas, a half-inch sampling valve in the line in which the gas is being metered, situated far enough from the orifice plate so as not to contravene the requirements of sections 177 to 182 of these regulations respecting metering;

(2) The surface and subsurface equipment of all oil and natural gas wells shall be so arranged as to allow officers of the Branch to take the closed in pressure, the bottom hole pressure and the working pressure of the well or to make any test at any time, and the operator of any well shall assist the officers in carrying out any such tests.

145. (1) The operator, at any well in the process of drilling or reconditioning shall keep, in triplicate, a daily record of all operations carried on at the well;

(2) The original copies of the daily records for any week shall be filed with the Branch within the next ensuing week and duplicate copies shall be turned over to the owner of the well and made a part of his permanent record.

146. (1) The daily report shall set out complete data on all operations carried on during the day, including:—

(a) the depth at the beginning of the day and the depth at the end of the day;

(b) the formations penetrated;

(c) any change in casing and, if casing set, all data regarding the setting, with the size-type and weight of casing used;

(d) particulars of any cementing;

(e) any water, oil or natural gas encountered, even if only in small showings;

(f) a report on any deviation or other tests carried out;

(g) all operations whether strictly drilling operations or not, such as fishing, shooting, perforating, acidizing, surveying or abandonment;

(2) Any suspension of operations shall be noted on the last daily report, previous to such suspension.

MANITOBA

DEPARTMENT OF MINES AND NATURAL RESOURCES
MINES BRANCH

DIRECTOR'S OFFICE
901 NORQUAY BUILDING
401 YORK AVENUE, WINNIPEG 1

License No: 2454

Application for License to Drill New Well

Merland et al Whitebear Creek Prov. STH #1

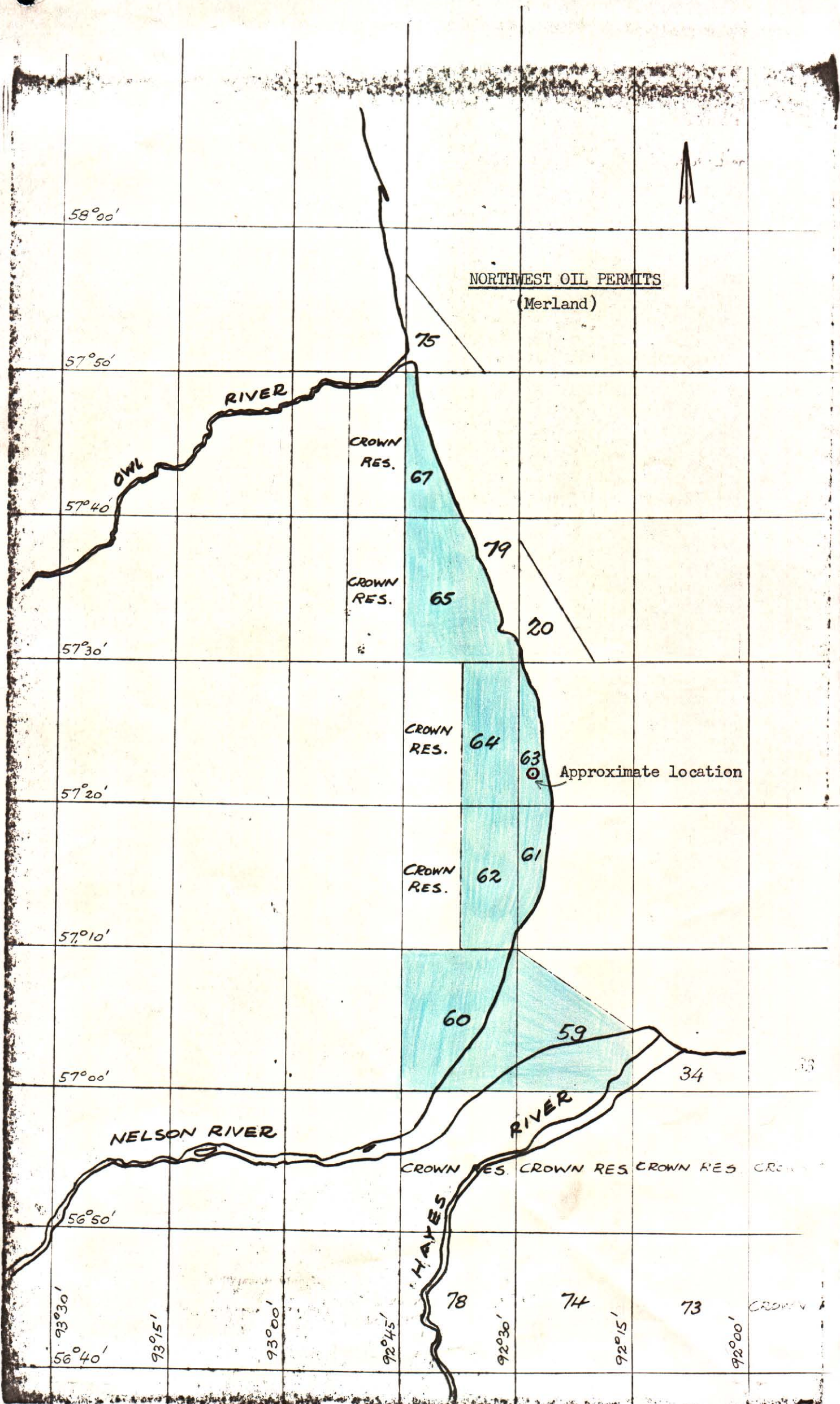
- (1) Only those persons authorized by Mr. W.C. McLean, Regional Director, will be permitted to have firearms at this site, and Mr. McLean may rescind any permission at his discretion.
- (2) There shall be no shooting at polar bears except in self defence.
- (3) The searching out, flying low over, or hazing the bears by aircraft, or in any other manner, is forbidden.
- (4) No surface vehicles will be permitted in camp except a small tractor, which shall remain in the beach area until the drilling operation is completed.
- (5) Garbage will be deposited at least one-half mile from camp, burned and buried.
- (6) All activities pertaining to this operation, from site preparation to hole abandonment, will be under the direction of Mr. W.C. McLean and Mr. G.E. Johnson. Mr. McLean should be contacted if any problems develop with wildlife in the area.
- (7) The issuance of this License to Drill shall in no way be construed to indicate that future applications for a License to Drill will be granted. Each "Application for License to Drill New Well" will be considered at the time of receipt, and in the light of all information available at that time.

Mr. W.C. McLean, *
Regional Director,
Field Administration,
Department of Mines & Natural Resources,
Box 990,
The Pas, Manitoba
Telephone: 623-2612*

Mr. G.E. Johnson,
District Petroleum Engineer,
Petroleum Engineering Division,
Mines Branch,
Box 1359,
Virden, Manitoba.
Telephone: 748-1557

*If Mr. McLean is not available, please contact
Mr. S.J. Williamson,
Regional Supervisor;
at the same address and telephone number.





FILE BACK COVER No. _____

2454

FROM

TO Exploration Permit 58-68

TECH.

SUBJECT:--

Wesland et al
Turkithew Creek Proj.

STH/1

2. Technical File + Tour Reports