

BRIGGS WEST TATHLINA
LAKE No. 2

Drilling Authority No.

Date Issued

WELL NAME Briggs West Tathlins Lake No. 2

FIELD Wildcat

Area: Kakisa Lake

LOCATION: Unit

Section

Grid

Latitude 60°38' 17.7" N.

Longitude 117°47' 27.3" W.

From Established Reference Marker

Rig Release Date: 30-1-60

Status D & A

Information Release Date 30-1-62

CHANGE OF NAME:

DATE RECEIVED	INDEX
	Application for a Drilling Authority. Well Completion Data. Well History Report. Application to Amend a Drilling Authority. Application to change a Well Name. Application to Abandon a Well or Suspend Drilling. Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No. Application to Commingle Production before Measurement. Approval to Commingle Production before Measurement. Application to Amend Approval No. to Commingle Production before Measurement. Application for M.P.R.—Oil. New Oil Well Report. New Gas Well Report. Well Inspection Report. Rig Inspection Report. Battery Inspection Report. Field Abandonment Programme and Approval. Well Card. Well Visit. Daily Drilling Reports.

60° 38' 17"
117° 47' 27"
FORM "B"

#60

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES
NORTHERN ADMINISTRATION BRANCH
RESOURCES DIVISION

For the period from Dec. 30/59
to Jan. 30/60

REPORT of ~~COMPLETION~~
~~REWORK~~
~~RECOMPLETION~~ of a Well
~~SUSPENSION~~
~~ABANDONMENT~~

Permit No. 1526
Name of well Briggs West Tathlina Lake No. 2 Lease No.
Registered owner D. Todd Briggs Drilling Company Guthrie McLaren
Location 60° 38' 18" N. Lat. 117° 47' 27" W. Long.
Survey description, if available
Elevation: Ground 918 Last previous depth 3435
Kelly bushing 930 Present depth 0
Spudded Dec. 30, 1959 Finished drilling 27/1/60 Rig Released
Jan. 30, 1960
Deviations from vertical 425' - 1 3/4°, 1015' - 2 3/4°, 1500' - 3 3/4°,
1948' - 4 1/2°, 2491' - 5 1/2°, 2990' - 6 1/4°, 3435' - 4 1/2°

CASING RECORD

Date	Size O.D.	Weight lbs/ft	Grade	Set at feet	Sacks Cement	Top of Cement
1 Jan 8/60	8.5/8"	24.0	J-55	225	180	Surface
2						
3						
4						

TUBING RECORD

Size	Wt. Lbs/foot	Grade	Amount	Landed Depth	Remarks
Wellhead		(Manufacturer)	(Size)	(Series)	

Status of well on completion of drilling	Abandoned
Producing Zone	and formation
Cord intervals	548 - 563
	2890 - 2895
	3140 - 3155
Induction Interval logged:	E-log 3428 - 230 Other logs Sonic 3429 - 2750
	R-log 3429 - 2750
	M-log 3430 - 230
	Velocity log

The above logs (~~are~~)
(will be) submitted in accordance with Section 65 of the
Regulations.

DRILL STEM TESTS

[illegible]

(If space insufficient, attach further sheet)

(Strike out the non-applicable) (Completion) (Rework) (Recompletion)

Perforations Bullet.

Shootings

Hydraulic fracturing

Chemical treatment

Date initial production tests

Initial production data

Pumping or flowing
 Plug back
 Other

CEMENT PLUGS SET

<u>Date</u>	<u>Plug set at</u>	<u>Sacks cement</u>	<u>Method</u>	<u>Top found at</u>
Jan. 29/60	T.D. 3100	100 sacks	Kaliburton	3105
"	3105 - 2800	100 sacks	"	2775
Jan. 30/60	280 - 200	40 sacks	"	210
"	210 - 150	20 sacks	"	

Washed well samples have been sent to Geological Survey of Canada, Calgary
~~Wickham~~

Cores will be stored at Hay River, N.W.T.

Core analysis (was made) of the Intervals
 (to be made)

Oil analysis (was made) of the Intervals.
 (to be made)

Gas analysis (was made) of the Intervals.
 (to be made)

Water analysis (was made) of the Intervals.
 (to be made)

The above analyses (are)
 (will be) submitted in accordance with Section 70(2) of
 the Regulations.

ADDITIONAL DETAILS AND COMMENTS

.

Signed. *J.B. Marshall* Address . 1009 - 4th Avenue S.W.,
 For J.C. Sproule & Associates
 Date May 4/60

(To be submitted in triplicate in accordance with Sections
 68, 69, 70 and 71, of the Territorial Oil and Gas Regulations
 to the Oil Conservation Engineer at Calgary, Alberta.)

FORM "C"

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

ABANDON

NOTICE OF INTENTION TO or a Well

~~SUPPLEMENTARY~~

(Strike out operation which does not apply)

In accordance with Sections 43 & 49 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to

LAKE

ABANDON the well named BRIDGE WEST TATHILIA, NO. 2 on Oil

Permit No. 1526
and Gas

Registered in the name of
D. TEDD BRIDGE, Business Account

Depth 3435 feet. Elevation above sea level:
Ground surface 918 ft.
Kelly bushing 930 ft.

Location 60° 38' 17.7" R. Lat. 117° 47' 27.3" W. Long.

10,400 feet (S. of N. boundary) of (Permit No. 1526)
7,400 feet (W. of E. boundary) of (Permit No. 1526)

Survey description, if available

CASING RECORD

<u>Size O.D.</u> <u>inches</u>	<u>Weight</u> <u>lbs/ft</u>	<u>Grade</u>	<u>Amount</u> <u>feet</u>	<u>Set at</u> <u>feet</u>	<u>Sacks</u> <u>cement</u>	<u>Method</u>	<u>to be</u> <u>withdrawn</u>
1 8 5/8"	24	J55	225	170	Halliburton	NIL	
2							
3							
4							

OIL, GAS AND WATER

Oil from feet to feet From feet to feet with
. sacks cement
Oil from feet to feet From feet to feet with
. sacks cement

Gas from feet to feet From feet to feet with
sacks of cement.

Gas from feet to feet From feet to feet with
sacks of cement.

Water from ~~2835~~ . feet to ~~2875~~ . feet From ~~3100~~ . feet to ~~2750~~ . feet with ~~200~~ .
sacks cement.

Water from feet to feet From feet to feet with
sacks cement.

Surface and bottom plugs:

1. from ~~3435~~ . feet to ~~3100~~ . feet with . ~~100~~ .sacks cement.
2. from ~~3100~~ . feet to ~~2750~~ . feet with . ~~100~~ .sacks cement.
3. from ~~275~~ . feet to ~~175~~ . feet with . ~~40~~ .sacks cement.
~~5 sacks cement.~~

Date of last operation . . . ~~JANUARY 30, 1960~~ Total depth . ~~3435~~

Nature of liquid left in well . . . ~~NED~~ Level from surface ~~SURFACE~~
on suspension or abandonment

The following logs ~~WIRELOG~~ run ~~INDUCTION~~ - electrical log, microlog,
have been
~~GAMMA~~ and ~~SONIC~~ LOG

Produced from zone and
on abandonment of a well which has been on production.

Present condition of well in addition to above
.
.

On abandonment or suspension of drilling we shall comply with Sections 68, 69 and
70 of the Regulations.

Program of operation not included above
.
.
.

Responsible agents of permittee or lessee in charge of operation:
At well . . . ~~ART WELTING~~ Postal address ~~HAY RIVER, N.M.T.~~
At registered office ~~A.M. LLOYD~~ Postal address ~~1117 First National Building~~
~~DALLAS, 2, TEXAS, U.S.A.~~

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

dated at ~~CALGARY~~ . . . this ~~FIRST~~ . . . day of ~~FEBRUARY~~ 19 ~~60~~ .

Signed by *B.L. Harding*
~~B.L. HARDING, P.Eng.~~
~~J.C. SPROULE & ASSOCIATES.~~

This program is approved subject to the following provisions

..... Confirming oral approval given at February
.....
.....
.....

..... 15th March, 1960
Date

..... *By S. Jones*
Oil Conservation Engineer

(To be submitted in triplicate to the Oil Conservation
Engineer at Calgary, Alberta.)

FORM "A"

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES RESOURCES

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

~~TO CARRY OUT A STRUCTURE TEST PROGRAM~~

In accordance with Section 58 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No. 1526, registered in the name of Lease No.

B. Todd Briggs Marine Account . . .

TYPE OF WELL:

Wildcat

Development

Expected total depth 3200 feet, in the formation of Precambrian age.

The well will be located at 60° 38' 17.7" N. Lat. 117° 47' 27.3" W. Long.

10,400 feet (S. of N. boundary) of (Permit No. 1526)
7,400 feet (W. of E. boundary) of (Lease No.)
7,400 feet (E. of W. boundary) of (Permit No. 1526)
7,400 feet (E. of W. boundary) of (Lease No.)

Survey description of Location, if known

Approximate surface elevation of 918 feet above sea level.

Name of well Briggs West Athlona Lake No. 2

Type of drilling rig Rotary

Expected date of commencement December 31, 1959

We propose to use the following strings of casing, cementing them as indicated below:

Size O.D. Inches	Weight lbs/ft	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1. 8 5/8"	24	J55	Mannesmann	New	220	110
2. 5 1/2"	14	J55	"	New	3200	100
3.						

Expected depth of water, gas and oil horizons and method of control:

2600 to 3200 feet controlled by drilling mud and blowout preventers

An electric log ^{will} be run ^{will} Other logs ^{will} be run
~~will not~~ ~~will not~~

STRUCTURE TEST PROGRAM

Proposed number of holes Maximum well depth
enclosed within an area bounded by

. N. Latitudes
. W. Longitudes

An electric log ^{will} be run ^{will} Other logs ^{will} be run
^{will not} ^{will not}

Name and address of drilling contractor
Guthrie McLaren Drilling Ltd.
Edmonton, Alberta

Responsible agents of permittee or lessee in charge of operation:

At well Art Whiting Postal address Hay River, N.W.T.

At registered
office A.M. Lloyd Postal address 1117 First National Bank Bldg.
Dallas 2, Texas.

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

Dated at Calgary . this . . . 28 day of . . . December . . 19 59 . . .

Signed by . . . *Norman Sproule* . . .
J.C. Sproule & Associates

This program is approved subject to the following provisions (if any):

29.12.1959
Date

B.H. Shorn
Oil Conservation Engineer.

(To be submitted in triplicate to the Oil Conservation Engineer at
least 15 days prior to the commencement of drilling)

GEOLOGICAL REPORT
BRIGGS WEST TATHLINA LAKE NO. 2
NORTHWEST TERRITORIES

J. G. SPROULE & ASSOCIATES
GEOLOGICAL & EXPLORATION CONSULTANTS

1009 FOURTH AVENUE WEST
CALGARY - ALBERTA

TELEPHONE
444-8115

TABLE OF CONTENTS

	<u>Page</u>
SUMMARY OF PERTINENT WELL DATA	1
DAILY CHRONOLOGICAL WELL REPORT	3
BIT RECORD	7
MUD RECORD	8
SURFACE CASING	11
SAMPLE DESCRIPTION	12
DRILL STEM TEST REPORT	21
GEOLOGICAL AND ENGINEERING SUMMARY	22
 LOGS - Schlumberger Induction-Electrical Log - In Pocket Microlog Gamma Ray-Sonic Log Visual Well Log	
 DRILL STEM TEST CHART NO. 1	 - In Pocket

SUMMARY OF PERTINENT WELL DATA

Well Name: Briggs West Tathlina Lake No. 2

Location: Latitude 60° 38' 18" N.
Longitude 117° 47' 27" W.

Elevation: Ground 913'
K. B. 930'

Total Depth: 3435'

Operator: A. M. Lloyd

Technical Supervision: J. C. Sproule & Associates
Norman Soul, Geologist

Drilling Contractor: Guthrie McLaren Drilling Ltd.

Spudded: December 30, 1959

Completed: Rig released January 30, 1960

Status: Plugged and abandoned

<u>Core Summary:</u>	Core No. 1	548' - 563'	Rec. 15'
	Core No. 2	2880' - 2895'	Rec. 15'
	Core No. 3	3140' - 3155'	Rec. 15'

<u>Drilling Data:</u>	<u>Hole Size</u>	<u>From</u>	<u>To</u>
	15"	Surface	97'
	12 1/4"	97'	226'
	7 7/8"	226'	3435'

Deviation Surveys

40'	3/4°	836'	2°	1590'	4°
70'	1°	865'	1 1/2°	1709'	4 1/4°
125'	1 1/2°	985'	2 3/4°	1829'	4 1/2°
155'	2 1/4°	1015'	2 3/4°	1948'	5°
185'	2°	1045'	2 3/4°	2100'	5 1/2°
300'	2°	1108'	1 3/4°	2190'	5 1/4°
374'	1 7/8°	1144'	3°	2374'	5 1/4°
425'	1 3/4°	1197'	3 1/2°	2491'	5 1/2°
593'	1 1/4°	1288'	3 1/4°	2636'	6 1/4°
655'	1 1/4°	1347'	4°	2805'	6 1/4°
745'	1 1/3°	1430'	3 3/4°	2990'	6 1/4°
800'	1 3/4°	1500'	3 3/4°	3435'	4 1/2°

Surface Casing:

210.62' x 8 5/8" x 24 lb. J-55 new casing set at 225.10' K.B. and cemented with 180 sacks cement and 3% calcium chloride, January 8, 1960. Shoe at 230' K.B. on January 28, 1960 by Schlumberger. Casing damaged below 190' K.B.

Summary of Drill Stem Tests:

No. 1 - 2835' - 2895' V.O. 2 hours. Recovered 260' salt water.

Abandonment Program:

Plug No. 1 - 100 sacks and 2% calcium chloride
3438' - 3105' Felt
Plug No. 2 - 100 sacks and 2% calcium chloride
3105' - 2775' Felt
Plug No. 3 - 40 sacks and 2% calcium chloride
280' - 210' Felt
Plug No. 4 - 20 sacks
210' - 150'

Logs:

Schlumberger Induction-Electrical Log 3428' - 230'
Microlog 3430' - 230'
Gamma Ray-Sonic Log 3429' - 2750'

Geological Markers:

<u>Age</u>	<u>Formation or Marker</u>	<u>Depth Feet</u>	<u>Elevation Feet</u>
Upper Devonian	Wabamun	25	905
	Trout River	370	+560
	Grumbler	430	500
	Hay River	1680	-750
Middle Devonian	Slave Point	2780	-1850
	Watt Mountain	2985	-2055
	Presqu'ile Limestone	3005	-2075
	Presqu'ile Dolomite	3055	-2125
Precambrian	Granite	3418	-2488

Surface Casing:

210.62' x 8 5/8" x 24 lb. J-55 new casing set at 225.10' K.B. and cemented with 180 sacks cement and 3% calcium chloride, January 8, 1960. Shoe at 230' K.B. on January 28, 1960 by Schlumberger. Casing damaged below 190' K.B.

Summary of Drill Stem Tests:

No. 1 - 2835' - 2895' V.O. 2 hours. Recovered 260' salt water.

Abandonment Program:

Plug No. 1 - 100 sacks and 2% calcium chloride
3438' - 3105' Felt
Plug No. 2 - 100 sacks and 2% calcium chloride
3105' - 2775' Felt
Plug No. 3 - 40 sacks and 2% calcium chloride
280' - 210' Felt
Plug No. 4 - 20 sacks
210' - 150'

Logs:

Schlumberger Induction-Electrical Log 3428' - 230'
Microlog 3430' - 230'
Gamma Ray-Sonic Log 3429' - 2750'

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Upper Devonian	Wabamun	25	905
	Trout River	370	+560
	Grumbler	430	500
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	Watt Mountain	2985	-2055
	Presqu'ile Limestone	3005	-2075
	Presqu'ile Dolomite	3055	-2125
Precambrian	Granite	3418	-2488

DAILY CHRONOLOGICAL WELL REPORTWell Name: Briggs West Tathlina Lake No. 2Location: Latitude 60° 38' 18" N.
Longitude 117° 47' 27" W.

(Operations ending 12 midnight)

<u>Date</u>	<u>Total Depth Feet</u>	<u>Progress Feet</u>	<u>Days</u>	<u>Remarks</u>
Dec. 30	124	112	1	Guthrie McLaren Rig No. 2 spudded in at 12:15 A.M. Drilled 7 7/8" pilot hole to 124'. Reamed pilot hole to 15" to 87'. Working stuck drill pipe.
Dec. 31	207	83	2	Pulled pipe loose. Mixed mud and conditioned hole. Reamed hole to 15" to 97'. Reamed hole to 12 1/4" to 110'. Drilling 7 7/8" hole. Conductor pipe washed out, no sample below 180'.
Jan. 1	247	40	3	Drilled 7 7/8" pilot hole to 247'. Reamed hole to 12 1/4" from 110' to 226'. Made trip and circulated. Ran surface casing to 225' and circulated. Rigging up to cement casing.
Jan. 2	247	0	4	Cemented 210.6' x 8 5/8" x 24 lb. J-55 casing at 225.1' K.B. with 175 sacks and 2% calcium chloride. Plug down at 12:15 A.M. Slacked off at noon. Installed blowout preventors.
Jan. 3	301	54	5	Pressured up casing to 700 psi for 15 min. Held O.K. Found top of cement at 214'. Drilled through shoe and cleaned out to 247'. Drilled 7 7/8" hole to 301'. Surface casing dropped on account of poor cement job. Unable to continue drilling.
Jan. 4	301	0	6	Pulled surface casing. Cleaned hole out with 12 1/4" bit to 226'. Cleaned hole out with 7 7/8" bit to 301'. Ran surface casing and re-cemented with 100 sacks and 2% calcium chloride. Completed at midnight.
Jan. 5	301	0	7	Slacked off at 1:30 P.M. Installed blowout preventors.

<u>Date</u>	<u>Total Depth Feet</u>	<u>Progress Feet</u>	<u>Days</u>	<u>Remarks</u>
Jan. 6	320	19	8	Drilled out cement, cleaned hole out to 301' and continued drilling to 320'. Casing dropped one foot, unable to continue drilling. Installed surface casing.
Jan. 7	320	0	9	Waited for sodium bicarbonate to 4:00 P.M. Drilled out cement and cleaned out to 226'. Displaced contaminated mud and cement.
Jan. 8	320	0	10	Cleaned out 15" hole to 97'. Cleaned hole out with 12 1/4" bit to 226'. Ran casing and re-cemented with 180 sacks and 3% calcium chloride. Completed at 1:30 P.M. Starting cemented.
Jan. 9	320	0	11	Slacked off at 4:00 P.M. and heated up. Ran in and circulated warm mud at 150'. Pressured up blowout preventors and casing to 700 psi.
Jan. 10	492	172	12	Circulated warm mud until 10:00 A.M. Cleaned hole out to bottom. No cement in casing. Drilling 7 7/8" hole with Bit No. 1.
Jan. 11	500	8	13	Drilled 7 7/8" hole to 500' and circulated sample. Ran junk basket. When pulling out skirt of junk basket broke against casing shoe leaving iron in hole. Fishing for iron.
Jan. 12	526	26	14	Fished for iron to 1:00 A.M. Waited for magnet to 5:30 P.M. Recovered iron at 8:00 P.M. Drilling 7 7/8" hole with Bit No. 2.
Jan. 13	763	237	15	Drilled 7 7/8" hole to 548' at 2:15 A.M. Ran magnet. Ran in with core barrel and cut Core No. 1 from 548' to 563'. Core out at 9:15 A.M. Reamed rathole. Drilling 7 7/8" hole with Bit No. 3 using 11 drill collars.
Jan. 14	1103	340	16	Drilled 7 7/8" hole to 800' with Bit No. 3. Drilling with Bit No. 4.
Jan. 15	1367	264	17	Drilled to 1144' at 3:30 A.M. with Bit No. 4. Drilling with Bit No. 5. Hole going crooked.
Jan. 16	1589	222	18	Drilled to 1430' at 5:30 A.M. with Bit No. 5. Drilled with Bit No. 6 to 1589'.

<u>Date</u>	<u>Total Depth Feet</u>	<u>Progress Feet</u>	<u>Days</u>	<u>Remarks</u>
Jan. 17	2041	452	19	Drilling with bit No. 7.
Jan. 18	2795	354	20	Drilled to 2121' at 5:15 A.M. with Bit No. 7. Drilling with Bit No. 8.
Jan. 19	2647	252	21	Drilled to 2470' at 6:00 A.M. with Bit No. 8. Slipped and cut drilling line and changed heads and liners in pump. Drilling with Bit No. 9.
Jan. 20	2980	233	22	Drilled to 2805' at 10:15 A.M. with Bit No. 9. Measured out of hole. Drilled with Bit No. 10 to 2880' and circulated sample.
Jan. 21	2895	15	23	Ran magnet. Ran in with core barrel and cut Core No. 2 from 2880' to 2895'. Core out at 1:00 P.M. Ran D.S.T. No. 1 from 2835' to 2895'. Recovered 260' salt water in two hours. Ran in with Bit No. 11. Reaming rat-hole.
Jan. 22	3005	110	24	Drilled to 2990' at 7:30 P.M. with Bit No. 11. Drilling with Bit No. 12.
Jan. 23	3140	135	25	Drilled to 3140' at 4:45 P.M. with Bit No. 12. Made trip with magnet. Ran in with core barrel. Circulating.
Jan. 24	3207	67	26	Out Core No. 3 from 3140' to 3155'. Out at 6:30 A.M. Reamed rat-hole with Bit No. 13, drilled to 3203' and lost circulation at 8:00 P.M. Regained circulation at 11:15 P.M. Drilling with reduced pump pressure.
Jan. 25	3208	1	27	Lost circulation at 3208' at 12:15 A.M. Waited on lost circulation material to 9:00 P.M. Mixed sawdust, fibre seal and gel. Running in hole.
Jan. 26	3341	133	28	Regained circulation at 4:15 A.M. Drilling with Bit No. 14.
Jan. 27	3435	94	29	Drilled to 3372' at 6:30 A.M. with Bit No. 14. Drilled to 3435 Total Depth with Bit No. 15 at 9:30 P.M. Circulated 1 1/2 hours. Dropped survey. Pulling out of hole to log.

<u>Date</u>	<u>Total Depth feet</u>	<u>Progress feet</u>	<u>Days</u>	<u>Remarks</u>
Jan. 28	3435	0	30	Ran Induction Electrical Log. Made clean-out trip. Running Microlog.
Jan. 29	3435	0	31	Ran Gamma Ray-Sonic Log from 3429' to 2750'. Tool broke down, unable to log rest of hole. Ran Plug No. 1 100 sacks and 2% calcium chloride on bottom. Felt after 6 hours at 3105'. Ran Plug No. 2 100 sacks and 2% calcium chloride at 3105'. Standing cemented from 9:30 P.M.
Jan. 30	3435	0	32	Felt Plug No. 2 at 5:30 A.M. at 2775'. Ran Plug No. 3 40 sacks and 2% calcium chloride from 280'. Felt at 210'. Ran Plug No. 4 from 210' to 150' with 20 sacks at 7:00 P.M. Tearing out blowout preventor. Rig released at midnight.

PIT RECORDWell Name: Briggs West Tathlina Lake No. 2Location: latitude 60° 38' 18" N.
Longitude 117° 47' 27" W.

<u>Bit No.</u>	<u>Make</u>	<u>Type</u>	<u>Size</u>	<u>Depth</u>		<u>Footage</u>	<u>Hours</u>
				<u>From</u> <u>Feet</u>	<u>To</u> <u>Feet</u>		
1	Reed	YT	7 7/8"	0	320	320	30 1/2
2	Sec.	2HM	7 7/8"	320	548	228	17
2A	Diamond	CLL	6 1/8"	548	563	15	2
3	Reed	YT	7 7/8"	563	800	237	14 1/2
4	Reed	YT	7 7/8"	800	1114	314	19 1/2
5	Reed	YTL	7 7/8"	1114	1430	286	17 1/2
6	Sec.	2HM	7 7/8"	1430	1589	159	12 3/4
7	Reed	YTL	7 7/8"	1589	2121	532	26
8	Reed	YTL	7 7/8"	2121	2470	349	21 1/4
9	Reed	YTL	7 7/8"	2470	2805	335	17
10	Reed	YSL	7 7/8"	2805	2880	75	9
10A	Diamond	CLL	6 1/8"	2880	2895	15	4
11	Reed	YSL	7 7/8"	2895	2990	95	20
12	Reed	YT	7 7/8"	2990	3140	150	17 1/4
12A	Diamond	CLL	6 1/8"	3140	3155	15	4 1/4
13	Reed	YSL	7 7/8"	3155	3208	53	10 3/4
14	Reed	YM	7 7/8"	3208	3372	164	25 1/4
15	Reed	YH	7 7/8"	3372	3435	63	8 1/4

MUD RECORDWell Name: Briggs West Tathlina Lake No. 2Location: Latitude 69° 15' 18" N.
Longitude 117° 47' 27" W.

<u>Date</u>	<u>Depth</u>		<u>Av. Wt.</u> lb/JS gal.	<u>Av. Visc.</u> Seconds	<u>Av. Water Loss</u> cc in 30 min.	<u>Additives</u>
	<u>From</u> Feet	<u>To</u> Feet				
Dec. 28						Gel 2200 lb; Lime 50 lb.
Dec. 30	Surface	124	9.6	35	-	Gel 1200 lb; Lime 50 lb.
Dec. 31	124	207	9.5	60	-	Gel 7000 lb.
Jan. 1	207	247	9.7	97	-	Gel 3000 lb.
Jan. 2	247	247	-	-	-	-
Jan. 3	247	301	9.2	43	-	Bicarb. 300 lb.
Jan. 4	301	301	9.5	40	-	Bicarb. 900 lb.
Jan. 5	301	301	-	-	-	-
Jan. 6	301	320	8.8	30	-	Bicarb. 300 lb.
Jan. 7	320	320	-	-	-	Gel 600 lb; Bicarb 300 lb.
Jan. 8	320	320	8.5	35	-	Gel 2000 lb.
Jan. 9	320	320	-	-	-	-
Jan. 10	320	492	9.4	55	-	Gel 600 lb; Bicarb 500 lb.
Jan. 11	492	500	9.0	53	-	Gel 1600 lb; Bicarb 100 lb; RayFlo 100 lb; Caustic 50 lb.
Jan. 12	500	526	9.1	36	8.6	Gel 2500 lb; Bicarb 100 lb; Caustic 150 lb; RayFlo 300 lb.

Date	Depth		Av. Wt. lb/US gal.	Av. Visc. Seconds	Av. Water Loss cc in 30 min.	Additives
	From Feet	To Feet				
Jan. 13	526	763	9.4	64	6.0	Gel 1200 lb; My-lo-jel 400 lb.
Jan. 14	763	1103	9.9	60	7.2	Gel 2000 lb; My-lo-jel 150 lb; RayFlo 150 lb; Caustic 75 lb.
Jan. 15	1103	1367	10.2	56	5.9	Gel 1400 lb; My-lo-jel 100 lb; Caustic 25 lb; RayFlo 50 lb.
Jan. 16	1367	1589	10.1	70	5.9	Gel 1000 lb; Caustic 225 lb; RayFlo 300 lb; My-lo-jel 100 lb.
Jan. 17	1589	2041	10.2	74	5.9	Gel 800 lb; Caustic 200 lb; RayFlo 150 lb.
Jan. 18	2041	2395	10.7	88	6.1	Gel 500 lb; Caustic 150 lb; My-lo-jel 100 lb; RayFlo 150 lb.
Jan. 19	2395	2647	10.6	87	6.0	Gel 500 lb; Caustic 150 lb; My-lo-jel 150 lb; RayFlo 150 lb.
Jan. 20	2647	2880	11.0	95	5.8	Gel 800 lb; My-lo-jel 100 lb; Caustic 100 lb; RayFlo 50 lb; Driscose 50 lb.
Jan. 21	2880	2895	10.7	91	6.2	-
Jan. 22	2895	3005	10.7	94	5.6	Gel 800 lb; Caustic 50 lb; RayFlo 50 lb; Driscose 100 lb.
Jan. 23	3005	3140	11.0	76	6.1	Gel 600 lb; My-lo-jel 100 lb; RayFlo 100 lb; Caustic 100 lb.

Date	Depth		Av. Wt. lb/US gal.	Av. Visc. Seconds	Av. Water Loss cc in 30 min.	Additives
	From Feet	To Feet				
Jan. 24	3140	3207	10.2	180	5.9	Gel 3400 lb; Caustic 200 lb; RayFlo 100 lb; My-lo-jel 100 lb; Fiber Seal 10 ex.
Jan. 25	3207	3208	Lost circulation			Gel 7100 lb; Sawdust 31 ex; Fiber Seal 10 ex.
Jan. 26	3208	3341	9.9	95	5.4	Gel 3400 lb; RayFlo 200 lb; Spersene 100 lb; Caustic 400 lb; My-lo-jel 500 lb; Driscose 100 lb.
Jan. 27	3341	3435 TD	9.8	165	9.0	Gel 1500 lb; Caustic 200 lb; Spersene 225 lb.
Jan. 28	3435	3435	9.1	91	5.4	Gel 500 lb; My-lo-jel 200 lb; Caustic 300 lb; Spersene 300 lb; Driscose 50 lb.

SURFACE CASINGWell Name: Briggs West Tathlina Lake No. 2Location: Latitude 60° 38' 18" N.
Longitude 117° 47' 27" W.

Casing 8 5/8" x 24# J-55 New casing

Tally	1	30.11
	2	29.78
	3	28.70
	4	29.28
	5	28.75
	6	30.66
	7	31.44
	8	1.90
		<u>210.62</u>

Total depth of hole	226' K.B.
Size of hole	12 1/4"
Depth casing set	225.10' K.B.
Amount of cement	175 sacks
Additions to cement	2% calcium chloride
Service Company	Halliburton Oil Well Cementing Company Skid Unit
Date and time of completion	January 8, 1960 1:30 P.M.
Cement circulated to surface	
Kelly Bushing to casing head	12.50'

SAMPLE DESCRIPTIONWell Name: Briggs West Nathlins Lake No. 2Location: Latitude 60° 38' 13" N.
Longitude 117° 17' 27" W.Elevation: 990' K.E.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
Surface- 20	Glacial drift.

UPPER DEVONIANNatashquan Group

20-30	Limestone, buff, dense, fossiliferous, clean; minor shale, green, calcareous, silty.
30-60	Limestone, light buff, dense, fossiliferous, clean.
60-70	Limestone, grey, dense, very fossiliferous, silty, solution cavities from leaching, reefoidal. Limestone, light buff, dense, fossiliferous, clean, as above.
70-80	Limestone, cream coloured, dense, fossiliferous, clean.
80-110	Limestone, light buff, dense to cryptocrystalline, highly fossiliferous, clean to slightly silty, evidence of leaching, reefoidal.
110-120	Limestone, buff, dense, fossiliferous, silty.
120-150	Limestone, light buff, dense to cryptocrystalline, silty, fossiliferous, reefoidal, some leaching.
150-170	Limestone, buff, microcrystalline and microgranular to fossiliferous fragmental, silty, reefoidal.
170-180	Limestone, as above; Limestone, light grey containing black oolites, silty in part, poor sample.
180-247	No samples on account of washed out conductor pipe.
247-270	Limestone, greyish white to light buff, dense to microcrystalline, fossiliferous, silty; Limestone, light grey, containing black oolites, silty in part.

<u>Depth Feet</u>	<u>Description</u>
270-290	Limestone, light grey to buff, dense to microcrystalline, silty, fossiliferous.
290-300	Limestone, light buff, dense to cryptocrystalline, clean.
300-310	Limestone, cream coloured, dense to cryptocrystalline, clean.
310-320	No sample.
320-340	Limestone, buff, microcrystalline, fossiliferous, clean.
340-360	Limestone, light grey to light buff, fossiliferous fragmental, clean.
360-370	Limestone, light buff, fossiliferous fragmental, clean, poor to fair porosity, oolitic in part.
<u>Treat River Formation</u>	
370-390	Limestone, light grey to light buff, granular, sandy, oolitic in part, traces of porosity.
390-400	Limestone, light grey to buff, very sandy, good porosity, oolitic in part and fossiliferous.
400-430	Limestone, light grey, oolitic, sandy, fair porosity.
<u>Crumpler Formation</u>	
430-440	Limestone, buff, microgranular to granular, silty, fossiliferous.
440-450	Limestone, light brown, granular, silty, fossiliferous, good intergranular porosity.
450-470	Limestone, light buff to light brown, granular to fossiliferous fragmental, silty in part, reefoidal, porous.
470-480	Sandstone, very fine-grained to fine-grained, grey, very limy, porous.
480-490	Sandstone, as above; Limestone, buff, granular to fossiliferous fragmental, silty to sandy, poor porosity.
490-500	Limestone, buff to light brown, fossiliferous fragmental to microgranular, variable siltiness, traces of porosity and dead oil staining.
500-510	Limestone, buff, granular, silty to sandy.

<u>Depth Feet</u>	<u>Description</u>
510-520	Limestone, light grey to buff, dense to finely crystalline, clean.
520-548	Limestone, cream coloured, dense to finely crystalline, clean, reefoidal.
548-563	Correl.
548-550.5	Limestone, as above, irregularly fractured and brecciated, reefoidal.*
550.5-563	Limestone, light grey to buff, crystalline, fossiliferous, brecciated and irregularly fractured, with irregular partings of green shale, calcareous, silty; scattered vugs impregnated with bituminous material; evidence of dead oil-staining.
563-580	Limestone, cream coloured to buff, microcrystalline, clean to slightly silty, fossiliferous, probably reefoidal.
580-640	Sandstone, grey to greenish grey, fine-grained, calcareous, grading into light grayish green very sandy limestone, fossiliferous; traces of white chert filling fractures, micromicaceous in part.
640-670	Limestone, grey, microgranular, silty to sandy.
670-700	Limestone, greenish grey, microgranular, very silty to sandy, grading into siltstone, greenish grey, calcareous.
700-730	Sandstone, greenish grey, very fine-grained to fine-grained, calcareous, grading into silty and sandy limestone, greenish grey.
730-740	Shale, green, silty, calcareous, interbedded with siltstone, greenish grey, calcareous.
740-770	Limestone, grey, microcrystalline, silty, with minor interbedded shale, green, silty, calcareous.
770-780	Limestone, light brown, fossiliferous, fragmental, sandy and silty, traces of porosity, reefoidal.
780-790	Limestone, greyish white to cream, dense, clean, fossiliferous, reefoidal.
790-800	Limestone, grey to light brown, granular to fragmental, traces of porosity, reefoidal.
800-810	Limestone, greenish grey to buff, microcrystalline, silty, fossiliferous, with partings of green shale.
810-840	Siltstone, greenish grey, calcareous with interbedded shale, green, calcareous.

<u>Depth feet</u>	<u>Description</u>
840-850	Limestone, buff, dense to microcrystalline, silty, fossiliferous.
850-890	Sandstone, greyish white, grey, and greenish grey, fine-grained, calcareous, micromicaceous in part, grading into limestone, very silty and sandy, fossiliferous.
890-980	Sandstone, greenish grey to grey, very fine-grained, calcareous, fossiliferous; minor partings of green shale.
980-1010	Interbedded sandstone, as above, and shale, green, silty, calcareous and clean, non-calcareous; minor shale, brown, slightly calcareous, micromicaceous in part.
1010-1020	Limestone, light brown, fragmental, fossiliferous, reefoidal, sandy to silty, traces of porosity; minor green shale.
1020-1030	Interbedded limestone, buff to greenish grey, silty, fossiliferous, and siltstone, greenish grey, calcareous; minor green shale.
1030-1040	Limestone, buff, dense to fossiliferous, fragmental, silty; minor green shale.
1040-1070	Shale, green, non-calcareous with interbedded siltstone, greenish grey, calcareous; traces of brown shale.
1070-1080	Shale, green, non-calcareous and shale, brown, slightly calcareous.
1080-1110	Shale, green, non-calcareous; minor interbedded, greenish grey, silty, limestone and calcareous siltstone.
1110-1140	Interbedded siltstone, grey, calcareous, and limestone, grey, micro-granular, very silty, fossiliferous; fossils replaced by limonite at 1130 feet.
1140-1190	Shale, green, calcareous; shale, brownish grey to brown, slightly calcareous; shale, greenish grey, calcareous.
1190-1200	Limestone, grey to greenish grey, microgranular, silty, fossiliferous, pyritic, partings of green shale, grading into siltstone, grey to greenish grey, calcareous.
1200-1210	Shale, green, slightly calcareous, with interbedded calcareous siltstone and silty limestone, as above.
1210-1230	Shale, green, silty, calcareous.
1230-1320	Limestone, buff, dense to microcrystalline and microgranular, silty, fossiliferous in part; shale, green, greenish grey and grey and greyish brown at 1270 feet, 1290 feet and 1310 feet.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
1320-1350	Limestone, grayish brown, microgranular, silty and argillaceous, fossiliferous; shale, as above.
1350-1370	Limestone, buff, dense to microcrystalline and microgranular, fossiliferous, silty; interbedded shale, as above, slightly calcareous.
1370-1410	Limestone, buff to brownish grey, and grey, microgranular to fossiliferous fragmental, very argillaceous and silty, reef-edge material, abundant corals.
1410-1460	Limestone, grey, greenish grey and brownish grey, dense to microcrystalline, silty and argillaceous, fossiliferous.
1460-1480	Shale, dark grey, slightly calcareous with interbedded light brown to greenish grey argillaceous limestone, as above; minor greenish grey, green and brown shale.
1480-1550	Limestone, grey to greenish grey, very argillaceous, very fossiliferous, with interbedded dark grey, calcareous shale as above; shale, green and greenish grey, calcareous.
1550-1600	Limestone, buff to light brown, dense to microcrystalline, clean.
1600-1620	Limestone, grey to brownish grey, argillaceous; shale, green, brown and grey.
1620-1640	Limestone, buff, dense, clean to slightly silty.
1640-1680	Siltstone, greenish grey, shaly, calcareous; Limestone, greenish grey, argillaceous and silty; Shale, green, silty, calcareous.

May River Formation

1680-1820	Shale, green, silty, calcareous.
1820-1830	Shale, brown, silty, calcareous.
1830-2020	Shale, green and dark greenish grey, silty, calcareous.
2020-2030	Limestone, dark grey, microcrystalline, argillaceous.
2030-2080	Limestone, buff, dense, clean; Limestone, greenish grey, granular, argillaceous and silty.
2080-2100	Shale, green and dark greenish grey, silty, calcareous.
2100-2150	Limestone, greenish grey, microcrystalline, argillaceous and silty, with interbedded shale, as above; thin bands of buff, dense limestone.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
2150-2160	Shale, dark greenish grey and dark grey, calcareous.
2160-2200	Limestone, greenish grey, granular to microgranular, silty and argillaceous, interbedded shale, as above.
2200-2230	Shale, green and dark greenish grey, calcareous.
2230-2250	Shale, greyish brown, silty, calcareous.
2250-2270	Limestone, buff, dense to cryptocrystalline, with interbedded shale, as above.
2270-2280	Shale, greyish brown, silty in part, calcareous.
2280-2310	Shale, green and dark greenish grey, calcareous.
2310-2320	Limestone, greyish buff, dense to microcrystalline, with interbedded shale, as above.
2320-2330	Limestone, highly mineralized with pyrite.
2330-2350	Shale, dark grey and greyish brown, fissile; pyrite.
2350-2390	Limestone, buff to grey, dense to microcrystalline, with interbedded shale, as above.
2390-2440	Shale, dark greenish grey, fissile, calcareous.
2440-2460	Shale, dark brown, bituminous, silty.
2460-2510	Shale, dark green, slightly calcareous; pyritic limestone band.
2510-2650	Shale, dark greenish grey to dark grey, non-calcareous to slightly calcareous, fissile, soft.
2650-2700	Shale, dark grey, non-calcareous.
2700-27.0	Shale, dark green, calcareous.
2710-2720	Shale, dark brown, bituminous, calcareous.
2720-2730	Shale, dark green, calcareous.
2730-2750	Limestone, greyish brown to grey and greenish grey, dense to cryptocrystalline, argillaceous, and interbedded shale, as above; pyritic.
2750-2770	Shale, dark brown, bituminous, calcareous, and limestone, as above.
2770-2780	Shale, dark grey and dark greenish grey, non-calcareous to slightly calcareous.

Depth
Feet

Description

MIDDLE DEVONIAN

Slave Point Formation

2780-2790	Limestone, grey, microcrystalline to crystalline, pyritic, fossiliferous fragmental in part.
2790-2815	Limestone, buff, dense to fragmental, some good porosity associated with corals at 2805 feet and scattered porosity in reef below.
2815-2825	Limestone, buff to light brown, dense to microgranular.
2825-2830	Limestone, buff to dark brown, dense to cryptocrystalline.
2830-2840	Limestone, dark brown, dense to cryptocrystalline, bituminous partings.
2840-2880	Limestone, light brown, granular, scattered pin-point and intergranular porosity and trace of oil-staining; minor irregular partings of bituminous material; interbedded limestone, dark brown, dense to cryptocrystalline.
2880-2895	Corel.
2880-2885	Limestone, buff to light brown, dense to microcrystalline, stylolitic partings, bleeding live oil in scattered zones, generally hard and tight.
2885-2890	Limestone, brown, dense to microcrystalline, stylolitic partings, hard and tight, no oil bleeding.
2890-2895	Limestone, light brown, dense to microcrystalline, poor scattered pin-point and intercrystalline porosity, scattered oil bleeding, generally hard and tight; has brecciated appearance in places.
2895-2905	Limestone, brown, dense to fragmental.
2905-2935	Limestone, dark brown, dense to microcrystalline; Limestone, buff to brown, mottled in part, fragmental, stylolitic partings.
2935-2960	Limestone, brown to dark brown, dense, hard.
2960-2965	Limestone, brown to dark brown, dense, argillaceous, bituminous.
2965-2970	Limestone, brown, dense to microcrystalline.
2970-2975	Limestone, buff to brown, fragmental.
2975-2985	Limestone, brown, dense to microcrystalline.

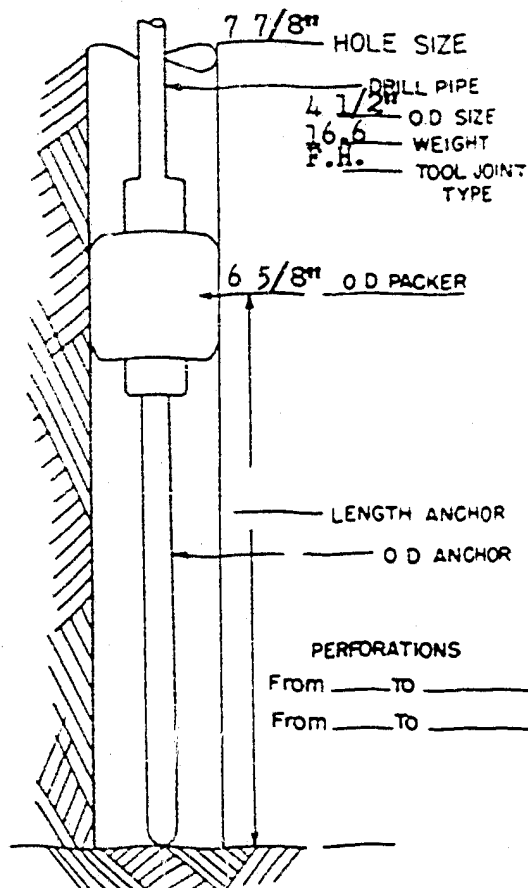
<u>Depth</u> <u>Feet</u>	<u>Description</u>
<u>West Mountain Equivalent</u>	
2985-2990	Limestone, greyish buff to light grey with thin partings of bright green waxy shale.
2990-3005	Limestone, dark brown, siliceous, argillaceous.
<u>Presqu'ile Limestone</u>	
3005-3045	Limestone, light grey to greyish white to light buff, dense, fossiliferous in part.
3045-3055	Limestone, light buff, dense to fragmental.
<u>Presqu'ile Dolomite</u>	
3055-3060	Dolomite, brown to grey, crystalline; large crystals of white dolomite from vugs; scattered porosity.
3060-3065	Dolomite, white, coarsely crystalline, excellent porosity; Limestone, brown, dense, fractured.
3065-3075	Dolomite, buff to light brown, crystalline to finely crystalline.
3075-3080	Dolomite, white, coarsely crystalline, excellent porosity; Limestone, brown, dense, fractured.
3080-3090	Dolomite, buff to brown crystalline and white, coarsely crystalline.
3090-3105	Dolomite, buff to brown, crystalline, scattered porosity.
3105-3125	Dolomite, brown to dark brown, crystalline.
3125-3140	Dolomite, buff, dense, and dolomite, buff to brown, finely crystalline to crystalline.
3140-3155	Corel.
3140-3155	Dolomite, buff to brown, crystalline with scattered unconnected vugs containing white coarsely crystalline dolomite; fractured at irregular angles to bedding; poor apparent permeability, no staining, sulphurous odour; minor partings of green shale.
3155-3160	Dolomite, as above, abundant white and brown dolomite crystals from vugs.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
3160-3208	Dolomite, dark brown to buff, coarsely crystalline to finely crystalline; bituminous in part; some fragments exhibit fair to good porosity; wuggy dolomite at 3200 feet with prominent white dolomite crystals. Lost circulation.
3208-3290	Samples poor. Not using shale shaker. Buff crystalline dolomite, as above, some excellent intercrystalline porosity.
3290-3335	Samples contaminated by lost circulation material. Dolomite, buff to brown, crystalline, as above, some excellent porosity.
3335-3340	Limestone, brown to buff, dense.
3340-3345	Dolomite, brown, very fine-grained, sugary texture.
3345-3355	Dolomite, buff to brown, crystalline, fair porosity.
3355-3365	Dolomitic limestone, buff, microgranular, grading into dolomite, buff, very finely crystalline to dense.
3365-3375	Dolomite, buff to brown, finely crystalline to dense, anhydritic in part.
3375-3390	Anhydrite, white to light buff, dense, and anhydritic dolomite, as above; shale, bright green, waxy, pyritic, some evidence of brecciation.
3390-3415	Sandstone, very fine-grained to coarse-grained, poorly sorted, reddish brown, calcareous, with interbedded shale, reddish brown and green, silty, calcareous.
<u>PRECAMERIAN</u>	3418 E-log
3415-3435	Granite, reddish pink.

DRILL STEM TEST REPORT

Briggs West
 Well Name Tathlina Lake Well No. 2
 Field Wildcat
 Testing Company United Testers Ltd.
 Date Commenced January 21, 1960

TEST No. 1 Run No. 1
 District Tathlina Lake
 Province Northwest Territories
 Operator C. Hank
 Date Completed January 21, 1960



Formation Tested Slave Point
 Section Tested. From 2835 To 2895 ft.
 Mud Properties: Wt. 10.7 Vis. 91 sec.
 Filtrate 6.2 c.c. Filter Cake 2/32 Gel
 Water Cushion ft.
 Type of Packer Conventional
 Choke Size, surface Bottom Hole 1/2"

Time	Remarks
Tester started in hole 2:30 P.M.	
Tester on bottom 4:00 P.M.	Initial shut in
Tester opened 4:33 P.M.	4:03 P.M.-4:33 P.M.
Tester closed 6:33 P.M.	
Tester pulled loose 7:03 P.M.	Final shut in
Tester out of hole 9:00 P.M.	6:33 P.M.-7:03 P.M.
Total time tester open 2 hours	

PERFORATIONS
 From _____ TO _____
 From _____ TO _____

Weight:
 Set on Packer lbs. Pull Packer Loose lbs.
 Weight drill pipe Before Test After Test
 Mud level in casing Full
 Nature of Blow Weak air blow
 Maximum Surface Pressure
 Maximum Trap Pressure

Gas Flow: Nil MCF/day: How Gauged By
 Oil Flow bbls. in hrs: Est. 24-hr. Flow Rate How Gauged
 Size flow line Inch. I.D. Size Orifice inch.

Recovery in Drill Pipe:

	stands	feet	bbls.	Remarks
Free oil				
Mud				
Water	stands 260	feet 3.7	bbls.	Salty sulphurous
Gravity of oil	° API @		°F.	
Oil sample obtained			Water sample obtained	x

Pressures:

	Kuster	
Type of pressure bomb (s) used		
Maximum Flowing Pressure	189	PSI
30 Minute Shut in Pressure	1250	PSI
Static Mud Pressure after unseating packer	1613	PSI
Mechanically, was Test satisfactory?	Yes	

REMARKS:

Water resistivity by Schlumberger RW = 0.12 at 65° F

Engineer: Norman Scul

J. C. SPROULE & ASSOCIATES, CALCARY.

GEOLOGICAL AND ENGINEERING SUMMARY

Well Name: Briggs West Tathlina Lake No. 2

Location: Latitude $60^{\circ} 38' 18''$ N.
Longitude $117^{\circ} 47' 27''$ W.

Briggs West Tathlina Lake No. 2 well was drilled $3 \frac{1}{2}$ miles east and north of Briggs West Tathlina Lake No. 1 dry hole in the northeast corner of Oil and Gas Permit No. 1520 registered in the name of D. Tol; Briggs. The location was based on seismic work done in the area in 1960.

The stratigraphic succession in the No. 2 well is similar to that in West Tathlina Lake No. 1. Structurally, the top of the Middle Devonian Slave Point formation is 38 feet lower in No. 2 than in No. 1. The Presqu'ile equivalent which occurs at 2965 feet in the No. 1 well is at 3005 feet in the No. 2 well and is therefore 80 feet structurally lower in the No. 2 well. In view of this lower structural position and the known presence of salt water in the No. 1 well no drill stem tests were made in the Presqu'ile section. The Slave Point formation yielded 260 feet of salt water in a two hour test of the interval from 2835 feet to 2895 feet.

The well reached the Precambrian granite at 3418 feet and was abandoned at a total depth of 3435 feet.

It was necessary to cement the surface casing three times before a successful job was obtained. This added considerably to the cost of the well. The hole had a maximum deviation from the vertical of $6 \frac{1}{4}$ degrees and drilling progress was slow on this account.

Norman Soul
Norman Soul, P. Eng.

S.R.L. Harding
S.R.L. Harding, P. Eng.

1009 - 4th Avenue S.W.,
Calgary, Alberta,
April 26, 1960.

D. Todd Briggs COMPANY

Briggs West Tethers Lake No. 2
WELL NAME AND NUMBER

January 21, 1960
DATE

TEST NO.



UNITED TESTERS LTD.

1000 - 10th AVENUE S.W., CALGARY, ALBERTA

SERVICE REPORT

UNITED TESTERS LTD.

1000 - 10th Ave. West



Calgary, Alberta

Phone CHerry 4-0506

PRESSURE READINGS

TYPE OF TEST Formation

INTERVAL TESTED 2835' to 2895'

HOLE SIZE 7 7/8" MUD WT. 10.7

FLUID CUSHION Nil

FLOW PERIOD 120 minutes

INITIAL SHUT-IN PER 30 minutes

FINAL SHUT-IN PER 30 minutes

BLOW Weak initial puff, very weak

air blow, steady thru-out test.

FLUID RECOVERY 260' muddy salt water.

TEMP. M.C.F.

SUR. CHOKE BOT. CHOKE 1/2"

TICKET NO. 776

Inside:

REC. NO. 1098 CAP. 5800 DEPTH 2855'

POINTS

INITIAL HYD. 1618 1

INITIAL SHUT-IN 1244 2

INITIAL FLOW 64 3

FINAL FLOW 186 4

FINAL SHUT-IN 1241 5

FINAL HYD. 1618 6

PRESSURE READINGS

904side:

REC. NO. 904 CAP. 5000 DEPTH 2860

POINTS

INITIAL HYD. 1625 1

INITIAL SHUT-IN 1250 2

INITIAL FLOW 60 3

FINAL FLOW 190 4

FINAL SHUT-IN 1245 5

FINAL HYD. 1625 6

REMARKS

D. Todd Briggs,

Briggs West Tathlina Lake No. 2

D.S.T. No. 1

January 21, 1960

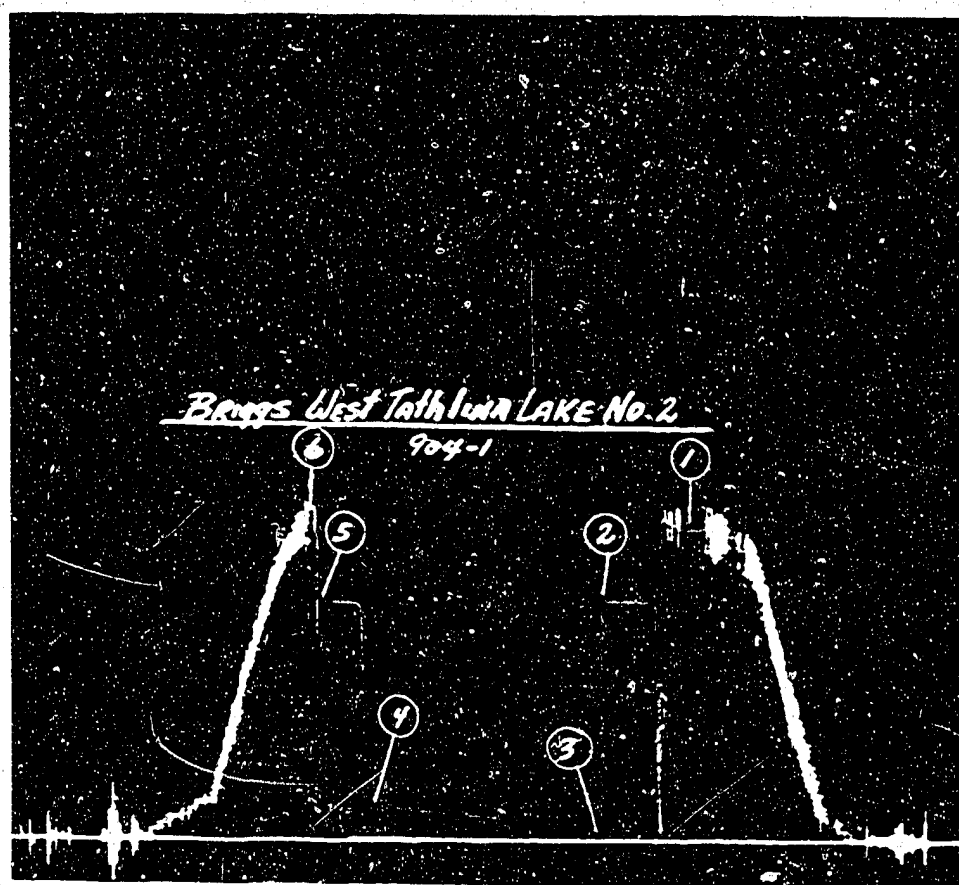
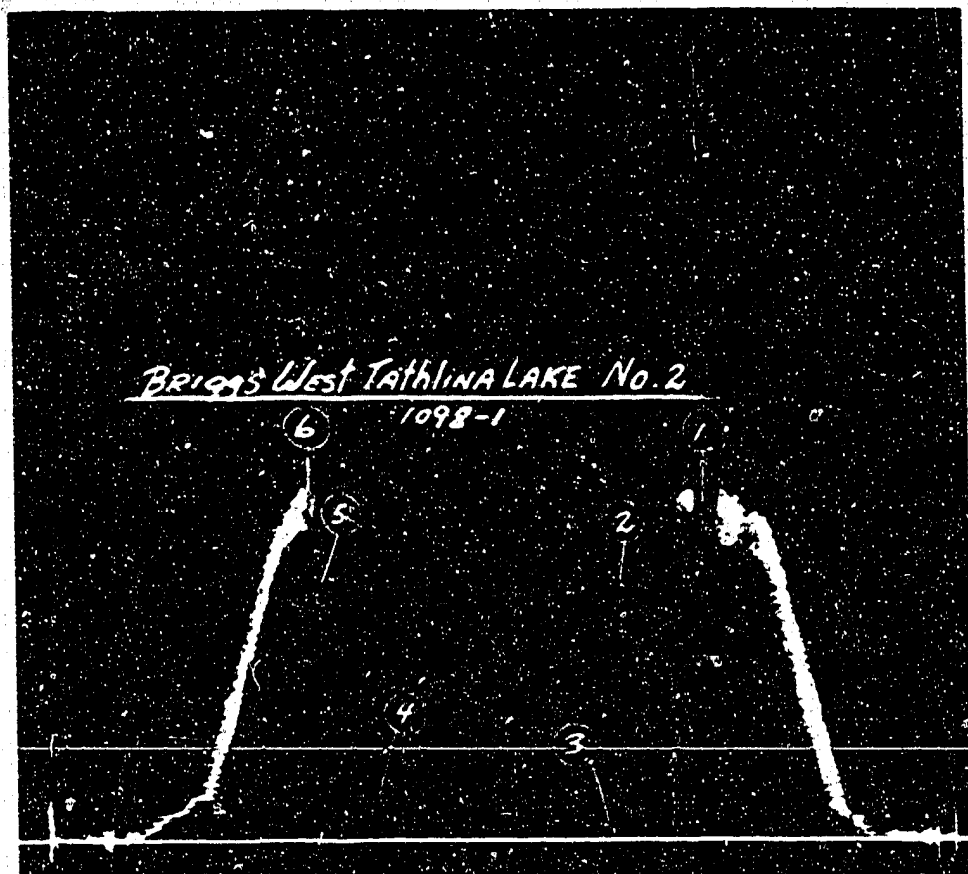
PRESSURES ON BUILD-UP

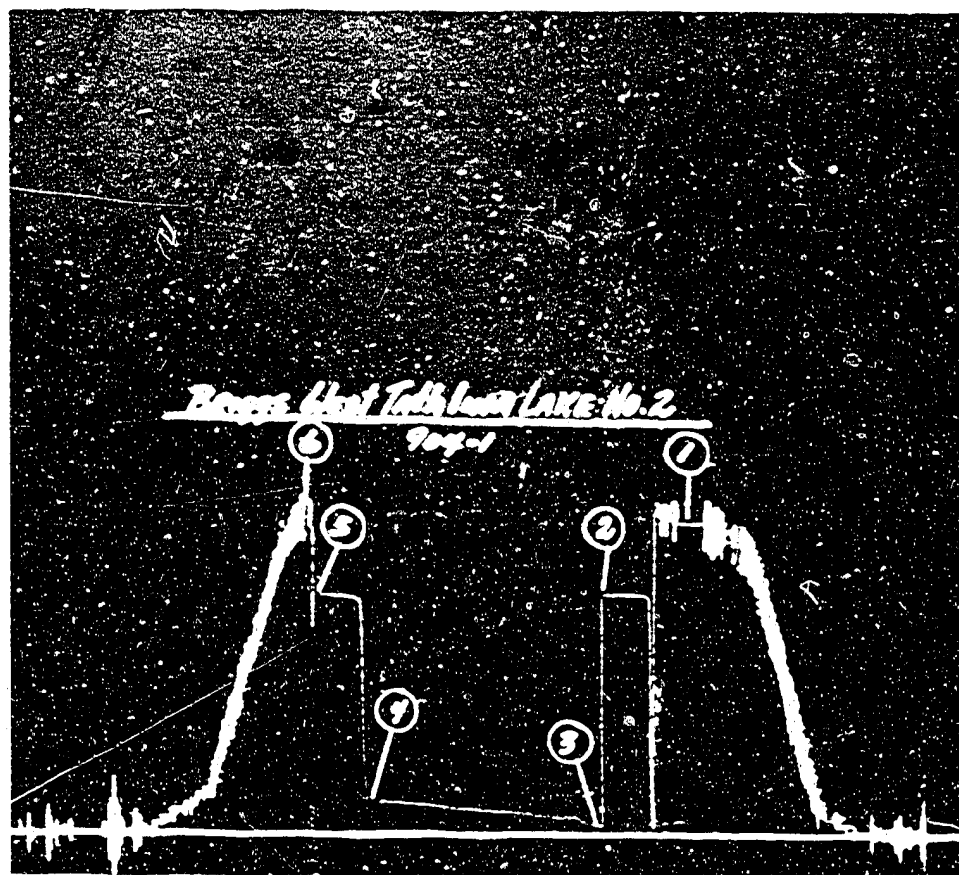
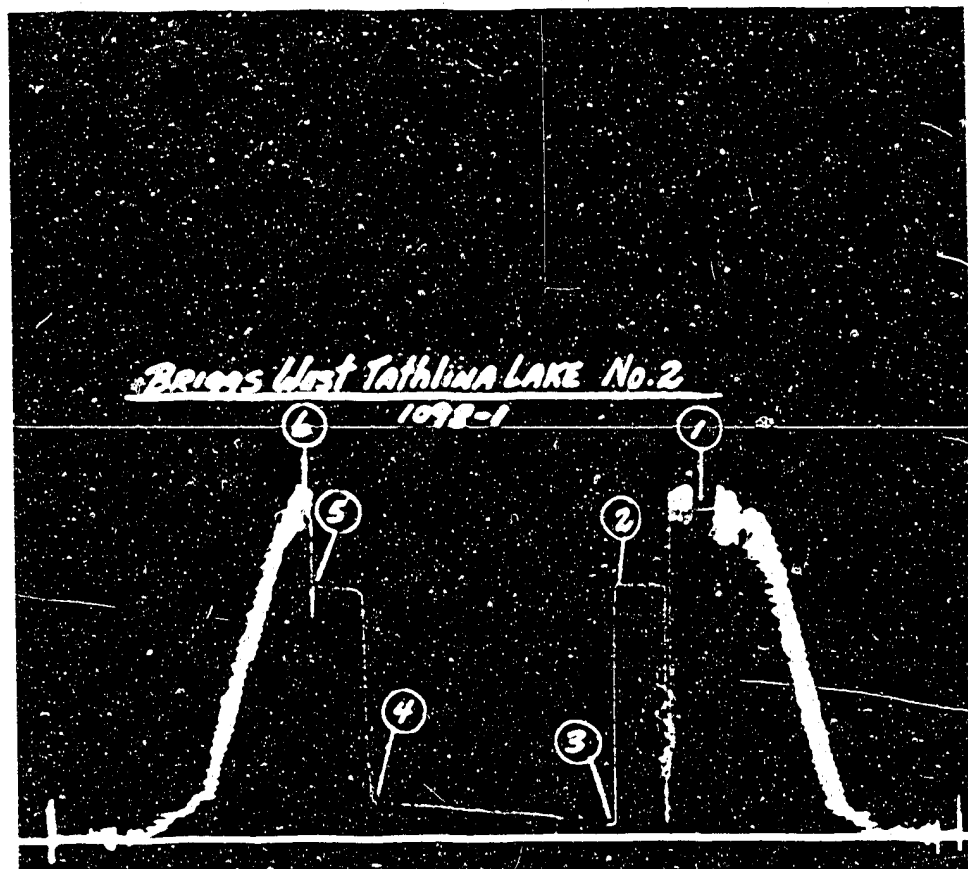
D. Todd Briggs COMPANY

Briggs West Tathlina Lake No. 2
WELL NAME AND NUMBER

TEST NO. 1

January 21, 1960
DATE





Art. [Signature]
Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATHLINA LAKE #2

Date JAN 30 / 60

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Tool Pusher _____

Drilled From _____ To _____ Hole Made _____										Drilled From _____ To _____ Hole Made _____										Drilled From _____ To _____ Hole Made _____																																							
Bit No.		No. Stds.		Length		Serial No.		No. D.C.'s		Length		Bit No.		No. Stds.		Length		Serial No.		No. D.C.'s		Length		Bit No.		No. Stds.		Length		Serial No.		No. D.C.'s		Length																									
Bit Size		Length		Length		Bit Type		Length		Length		Bit Size		Length		Length		Bit Type		Length		Length		Bit Type		Length		Length		Bit Type		Length																											
Dr. from		Kelly in		TOTAL		Cored from		D.C.O.D. Top		Hrs. On Bottom		D.C.I.D. Top		Hrs. Off Bottom		Cored to		Reamed from		Pipe Size		Trip Time		Reamed to		C.S.G. Set at		Serv. Time		Total Bit Footage		C.S.G. Size		Rep. Time																									
1 1/2 Hrs.		Pipe in Hole		Jts.		Diesel Fuel Meter Reading		Bit Hrs.		Table R.P.M.		Pipe on Racks		Jts.		REMARKS:		Bit Hrs.		Table R.P.M.		Pipe on Racks		Jts.		REMARKS:		Pipe in Hole		Jts.		REMARKS:																											
Depth		Deviation		Total Pipe on Lease		Jts.		Yesterday		Consumption		Gals.		Depth		Deviation		Total Pipe on Lease		Jts.		Depth		Deviation		Total Pipe on Lease		Jts.		Depth		Deviation		Total Pipe on Lease																									
Depth		Deviation		Total Pipe on Lease		Jts.		Yesterday		Consumption		Gals.		Depth		Deviation		Total Pipe on Lease		Jts.		Depth		Deviation		Total Pipe on Lease		Jts.		Depth		Deviation		Total Pipe on Lease																									
Depth		Deviation		Total Pipe on Lease		Jts.		Yesterday		Consumption		Gals.		Depth		Deviation		Total Pipe on Lease		Jts.		Depth		Deviation		Total Pipe on Lease		Jts.		Depth		Deviation		Total Pipe on Lease																									
Time		Wt.		Vis.		Pump Stroke		Pump Pres-sure		Pit Gauge		Water Added		No. 1 Pump Size		No. 2 Pump Size		Time		Wt.		Vis.		Pump Stroke		Pump Pres-sure		Pit Gauge		Water Added		No. 1 Pump Size		No. 2 Pump Size																									
12														Liner Size		Liner Size		4														Liner Size		Liner Size																									
1														Water-Loss		Filter Cake		5														Water-Loss		Filter Cake		PH																							
2																		6																																									
3																		7																																									
4																		8																																									
5														Mud Added Sacks				9														Mud Added Sacks																											
6														Chemicals Added Lbs.				10														Chemicals Added Lbs.																											
7																		11																																									
CREW										MATERIALS CHARGED TO OPERATOR										CREW										MATERIALS CHARGED TO OPERATOR										CREW										MATERIALS CHARGED TO OPERATOR									
Driller <u>D. CLARK</u>										Core Bit Serial										Driller <u>H. BOMFORD</u>										Core Bit Serial										Driller <u>E. LACASSE</u>										Core Bit Serial									
Derrickman <u>H. HUCULAK</u>										Reaming Bit Serial										Derrickman <u>A. BURNER</u>										Reaming Bit Serial										Derrickman <u>W. JOHNSON</u>										Reaming Bit Serial									
Cat Headman <u>D. TINDALL</u>										Core Cutters SF. HF.										Cat Headman <u>B. DUPEIRON</u>										Core Cutters SF. HF.										Cat Headman <u>N. BERGSTREITER</u>										Core Cutters SF. HF.									
Rotary Helper <u>E. SIBBESON</u>										Swab Cups										Rotary Helper <u>R. HUCULAK</u>										Swab Rubbers										Rotary Helper <u>R. WILKINS</u>										Swab Rubbers									
Fireman <u>H. BUCGIE</u>										Swab Rubbers										Fireman <u>D. MACKEY</u>										Swab Rubbers										Fireman <u>L. DUPEIRON</u>										Swab Rubbers									
Leaseman										Leaseman										Leaseman										Leaseman										Leaseman										Leaseman									
REMARKS										FROM TO										REMARKS										FROM TO										REMARKS										FROM TO									
W.O.C										12.00 4.30										W.O.C										8.00 3.00										SERV RIG										4.00 4.15									
RUN IN TO FEEL PLUG #2										4.30 5.30										FEEL FOR PLUG #3 30 FT										3.00										RUN PLUG #4 210-160										4.15									
PULL OUT TAKE OFF CUTOFF BIT										5.30 6.15										LOW										4.00										W/ 20 SAK CEMENT + 2%																			
RUN IN TO RUN PLUG #3										6.15 6.30																														PACK W/ 5 BBLs WATER										7.00									
RIG OPERON PLUG #3										6.30 7.00																														NEED NOT FEEL																			
W.O.C										7.00 8.00																														TRAILING OUT B.O.P.S										7 12									
FOUND PLUG #2 @ 2775																																								Rig Released 12.00																			
PLUG #3 280-180 DOWN AT 7.00 AM																																								midnight																			
RAN 40 SAK INLAND CEMENT																																																											
T 2% CaCl.																																																											

(Signature)
Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATHLINA LAKE #2

Date JAN 29 / 60

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Tool Pusher

Drilled From _____ To _____ Hole Made _____	Drilled From _____ To _____ Hole Made _____	Drilled From _____ To _____ Hole Made _____
Bit No. _____	Bit No. _____	Bit No. _____
Serial No. _____	Serial No. _____	Serial No. _____
Bit Size _____	Bit Size _____	Bit Size _____
Bit Type _____	Bit Type _____	Bit Type _____
Dr. from _____	Dr. from _____	Dr. from _____
Dr. to _____	Dr. to _____	Dr. to _____
Cored from _____	Cored from _____	Cored from _____
Cored to _____	Cored to _____	Cored to _____
Reamed from _____	Reamed from _____	Reamed from _____
Reamed to _____	Reamed to _____	Reamed to _____
Total Bit Footage _____	Total Bit Footage _____	Total Bit Footage _____
Bit Hrs. _____	Bit Hrs. _____	Bit Hrs. _____
Table R.P.M. _____	Table R.P.M. _____	Table R.P.M. _____

Depth _____	Deviation _____	Total Pipe on Lease _____	Jts. _____	Yesterday _____	Consumption _____	Gals. _____
Depth _____	Deviation _____	Total Pipe on Lease _____	Jts. _____	Yesterday _____	Consumption _____	Gals. _____
Depth _____	Deviation _____	Total Pipe on Lease _____	Jts. _____	Yesterday _____	Consumption _____	Gals. _____
Depth _____	Deviation _____	Total Pipe on Lease _____	Jts. _____	Yesterday _____	Consumption _____	Gals. _____

Time _____	Wt. _____	Vis. _____	Pump Stroke _____	Pump Pres. _____	Pit Gauge _____	Water Added _____	No. 1 Pump Size _____	No. 2 Pump Size _____
Time _____	Wt. _____	Vis. _____	Pump Stroke _____	Pump Pres. _____	Pit Gauge _____	Water Added _____	No. 1 Pump Size _____	No. 2 Pump Size _____
Time _____	Wt. _____	Vis. _____	Pump Stroke _____	Pump Pres. _____	Pit Gauge _____	Water Added _____	No. 1 Pump Size _____	No. 2 Pump Size _____
Time _____	Wt. _____	Vis. _____	Pump Stroke _____	Pump Pres. _____	Pit Gauge _____	Water Added _____	No. 1 Pump Size _____	No. 2 Pump Size _____

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>D. CLARK</u>	Core Bit _____	Driller <u>H. B. AMFORD</u>	Core Bit _____	Driller <u>E. LARSEN</u>	Core Bit _____
Derrickman <u>H. HUCULAK</u>	Reaming Bit _____	Derrickman <u>A. LUMBAKER</u>	Reaming Bit _____	Derrickman <u>N. JOHNSON</u>	Reaming Bit _____
Cat Headman _____	Core Cutters SF. HF. _____	Cat Headman <u>E. DUPERRON</u>	Core Cutters SF. HF. _____	Cat Headman <u>N. JOHNSON</u>	Core Cutters SF. HF. _____
Rotary Helper <u>D. TINDALL</u>	Swab Cups _____	Rotary Helper <u>E. HUCULAK</u>	Swab Cups _____	Rotary Helper <u>R. WILKINS</u>	Swab Cups _____
Rotary Helper <u>E. SIBBESTON</u>	Swab Rubbers _____	Rotary Helper _____	Swab Rubbers _____	Rotary Helper _____	Swab Rubbers _____
Fireman <u>H. BOCCIE</u>	_____	Fireman <u>D. MARKEY</u>	_____	Fireman <u>L. DUPERRON</u>	_____
Leaseman _____	_____	Leaseman <u>T. BERGERAND</u>	_____	Leaseman _____	_____

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
LOGGING	12:00	4:45	WAIT ON ORDERS	9:00	9:30	SEALED - R.C.	11	4:15
WAIT ON ORDERS	4:45	8:00	RUNNING TO PLUG BACK	9:30	10:30	W.O.C.	14	7:30
			PICK UP 12 SINGLES	10:30	11:15	RUN IN FEEL PLUG #1	7:00	9:30
			CERC PRIOR TO PLUG BACK	11:15	1:00	PULL OUT REMOVE BIT RUN IN	7:30	
			RUN PLUG NO 1 IN ON BOTTOM	1:00		TO RUN PLUG #2		9:00
			100. SACK CEM. INLAND CON. PIS 2%			RIG UP & RUN PLUG #2	9:00	9:30
			CALS. DISPLACED BOLS. WATER SAID			LAY DOWN EXPRESS D.P. PULL OUT	9:30	11:00
			9 BEHIND PLUG IN PLACE 325 FEET IN 8 IN			W.O.C.	9:30	12:00
			PLUG DOWN		1:30	FOCUS PLUG #1 @ 3105		
			PULL OUT TO 00	1:30	2:30	PLUG #2 3105 - 2785 DOWN @	9:30	P.M.
			W.O.C.	2:30	4:00	RAN 100 SACK INLAND CON		
						CEMENT + 17% CAL		

Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATHLINA LAKE #2

Tool Pusher

Date JAN 28 / 60

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From _____ To _____ Hole Made _____

Bit No.		No. Stds.	50-5	Length	3049.38	Bit No.		No. Stds.	50-5	Length	3049.38	Bit No.		No. Stds.	50-5	Length	3049.38
Serial No.		No. D.C.'s	13	Length	363.97	Serial No.		No. D.C.'s	13	Length	363.97	Serial No.		No. D.C.'s	13	Length	363.97
Bit Size				Length		Bit Size				Length		Bit Size				Length	
Bit Type				Length		Bit Type				Length		Bit Type				Length	
Dr. from		Kelly in			21.65	Dr. from		Kelly in			21.65	Dr. from		Kelly in			21.65
Dr. to		TOTAL			3435.00	Dr. to		TOTAL			3435.00	Dr. to		TOTAL			3435.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top		Hrs. On Bottom	
Cored to		D.C.I.D. Top	27 1/2	Hrs. Off Bottom		Cored to		D.C.I.D. Top	27 1/2	Hrs. Off Bottom		Cored to		D.C.I.D. Top		Hrs. Off Bottom	
Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size		Trip Time	
Reamed to		C.S.G. Set at	2.25	Serv. Time		Reamed to		C.S.G. Set at	2.25	Serv. Time		Reamed to		C.S.G. Set at		Serv. Time	
Total Bit Footage		C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage		C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage		C.S.G. Size		Rep. Time	
Bit Hrs.		Pipe in Hole		Jts.	Diesel Fuel Meter Reading	Bit Hrs.		Pipe in Hole	101	Jts.	REMARKS:	Bit Hrs.		Pipe in Hole		Jts.	REMARKS:
Table R.P.M.		Pipe on Racks		Jts.	Today: 2' 6"	Table R.P.M.		Pipe on Racks	35	Jts.		Table R.P.M.		Pipe on Racks		Jts.	fuel = 2 feet

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday		Depth	Deviation	Total Pipe on Lease	186 Jts.	FEW 3-5		Depth	Deviation	Total Pipe on Lease	Jts.		
Depth	Deviation			Consumption	Gals.	Depth	Deviation					Depth	Deviation				
Depth	Deviation					Depth	Deviation					Depth	Deviation				
Depth	Deviation					Depth	Deviation					Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pres-sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pres-sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	
12							Liner Size	Liner Size	8							Liner Size	Liner Size	
1							Water-Loss	Filter Cake	PH	9						Water-Loss	Filter Cake	PH
2										10						5.4	7/32	12.5
3										11								
4										12	9.250			1 1/2				
5							Mud Added Sacks			1	9.150			1 1/2		Mud Added Sacks	500# Maggel	
6							Chemicals Added Lbs.			2	9.98			1 1/2		Chemicals Added Lbs.	50# Driscoll	
7										3	9.68			1 1/2				

CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR		
Driller	D. CLARK		Core Bit		Serial	Driller	H. BARNFORD		Core Bit		Serial	Driller	E. LARSEN		Core Bit		Serial
Derrickman	H. HOGAN		Reaming Bit		Serial	Derrickman	A. L. MURPHY		Reaming Bit		Serial	Derrickman	W. JOHNSON		Reaming Bit		Serial
Cat Headman			Core Cutters SF. HF.		Core Catchers SF. HF.	Cat Headman	E. DUPRE		Core Cutters SF. HF.		Core Catchers SF. HF.	Cat Headman	P. BECKSTEIN		Core Cutters SF. HF.		Core Catchers SF. HF.
Rotary Helper	D. TINDALL		Swab Cups		Swab Rubbers	Rotary Helper	P. HOGAN		Swab Cups		Swab Rubbers	Rotary Helper	H. WILKINS		Swab Cups		Swab Rubbers
Rotary Helper	E. SIBBASTON					Rotary Helper						Rotary Helper					
Fireman	H. BUCKE					Fireman	D. MACKEY					Fireman	L. DUPRE				
Leaseman						Leaseman	T. GERRARD					Leaseman					

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
PULL OUT TO LOG	12.00	12.30				SEAR - RIG	4	11.15
LOGGING	12.30	8.00	LOGGING	8.00	9.45	CIRC CONN. MUD & HOLE	11.15	5.15
			RUN IN TO CLEAN OUT HOLE		9.45	10 STA. TRIP	5.15	5.45
			RUN HOSE CON MUD		12.00	CIRC	5.45	6.45
			RUN IN 10 ST.		2.15	PULL OUT TO LOG	6.45	8.00
			PERF CON MUD		3.00	LOGGING	8.00	12

Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATMINA LAKE #2

Date JAN 27/60

Lsd. Sec. Twp. Rge. W.

Drilled From 3341 To 3372 Hole Made 31

Drilled From 3372 To 3391 Hole Made 19

Drilled From 3391 To 3475 Hole Made 44

Bit No.	14	No. Sds.	49-5	Length	2988.19
Serial No.	778081707	No. D.C.'s	13	Length	363.97
Bit Size	7/8			Length	
Bit Type	VM			Length	
Dr. from	3208	Kelly in =	19.84		
Dr. to	3372	TOTAL =	3372.00		
Cored from		D.C.O.D. Top	1 1/4	Hrs. On Bottom	
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	164	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	25 1/4	Pipe in Hole	99 Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	90	Pipe on Racks	37 Jts.	Today	3' 8"

Bit No.	15	No. Sds.	49-5	Length	2988.19
Serial No.	491001	No. D.C.'s	13	Length	363.97
Bit Size	7/8			Length	
Bit Type	VM			Length	
Dr. from	3372	Kelly in =	3884		
Dr. to	3391	TOTAL =			
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	5
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	5
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	19	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	3	Pipe in Hole	99 Jts.	REMARKS: CHECK	
Table R.P.M.	90	Pipe on Racks	37 Jts.	ROPER A KENNY	

Bit No.	15	No. Sds.	50-5	Length	3019.35
Serial No.	691001	No. D.C.'s	13	Length	363.97
Bit Size	7/8			Length	
Bit Type	VM			Length	
Dr. from	3391	Kelly in =	21.75		
Dr. to	3475	TOTAL =	3475.00		
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	5 1/4
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	2 3/4
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	63	C.S.G. Size	4 3/4	Rep. Time	
Bit Hrs.	8 1/4	Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.	90	Pipe on Racks	Jts.	Level - 3 ft	

Depth	Deviation	Total Pipe on Lease	136 Jts.	Yesterday	
Depth	Deviation	Consumption	Gals.		
Depth	Deviation				
Depth	Deviation				

Depth	Deviation	Total Pipe on Lease	136 Jts.	Yesterday	
Depth	Deviation	Consumption	Gals.		
Depth	Deviation				
Depth	Deviation				

Depth	Deviation	Total Pipe on Lease	136 Jts.	Yesterday	
Depth	Deviation	Consumption	Gals.		
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	10	97	66	275	1/4		7 1/4 X 11 1/4	
1	10	99	66	275	1/4		Liner Size 6"	
2	10	101	66	275	1/4		Water-Loss	Filter Cake PH
3	10	100	66	275	1/4		5.8	232 12
4	10	98	66	275	1/4			
5	10	120	66	275	1/2		Mud Added Sacks 1500 = GFL	
6	10	117	66	275	1/2		Chemicals Added Lbs.	
7	10	115	66	275	1/2			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8							7 1/4 X 11 1/4	
9							Liner Size 6"	
10							7.5	2132 10.5
11							7.5	2132 11.
12								
1	9.8	117	67	600	1/2		Mud Added Sacks	
2	9.8	114	67	600	1/2		Chemicals Added Lbs. CAUSTIC 100 =	
3	9.8	100	67	600	1/2			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	9.8	112	67	600	1/2		7 1/4 X 11 1/4	
5							Liner Size 6"	
6							9.2	2132 11.
7								
8							9.2	2132 12.
9	9.8	165	66	600	1/2		Mud Added Sacks 225 = SPERSINK	
10							Chemicals Added Lbs. 100 = CAUSTIC	
11								

CREW	MATERIALS CHARGED TO OPERATOR
Driller H. CLARK	Core Bit
Cat Headman H. HUCUANK	Reaming Bit
Rotary Helper D. TINDALL	Core Cutters SF. HF.
Rotary Helper E. SIBRESTON	Core Catchers SF. HF.
Fireman H. BUCKLE	Swab Cups
Leaseman	Swab Rubbers

CREW	MATERIALS CHARGED TO OPERATOR
Driller H. BAMEFORD	Core Bit
Cat Headman A. LUMBERNER	Reaming Bit
Rotary Helper P. DERRANI	Core Cutters SF. HF.
Rotary Helper P. HERBLAK	Core Catchers SF. HF.
Fireman D. MCKEY	Swab Cups
Leaseman J. GERRARD	Swab Rubbers

CREW	MATERIALS CHARGED TO OPERATOR
Driller F. LACASSE	Core Bit
Cat Headman W. JOHNSON	Reaming Bit
Rotary Helper A. WILKINS	Core Cutters SF. HF.
Rotary Helper	Core Catchers SF. HF.
Fireman L. DUPERRE	Swab Cups
Leaseman	Swab Rubbers

REMARKS	FROM	TO
SERV RIC	12.00	12.15
DRILLING	12.15	1.00
ON DRAWWORKS MOTORS	1.00	1.15
DRILLING	1.15	1.30
CIRC. SAMPLES	1.30	2.00
PULL OUT FOR BIT	2.00	8.00

REMARKS	FROM	TO
SERVICE RIS PREPARE TO PULL BIT	8.00	8.45
PULL OUT FOR NEW BIT	8.45	11.00
RUN IN W/ 7 1/8 BIT	11.00	1.00
DRILLING 7 1/8 GOLF	1.00	4.00

REMARKS	FROM	TO
SERV. RIC.	4	4.15
DRILLING	4.15	9.30
CIRC. PRIOR TO LOC.	9.30	11.00
PULL OUT DRAP SURVEY	11.00	12.

Date TAX 26/60

Tool Pusher

Drilled From 3208 To 3243 Hole Made 35

Drilled From 3243 To 3306 Hole Made 57

Drilled From 3300 To 3341 Hole Made 41

[illegible]

Depth	Deviation	Total Pipe on Lease / 36 Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease 126 Jts.	ALARMY CHECKED	Depth	Deviation		
Depth	Deviation		Consumption	Calc.	Depth	Deviation	FIRE EXPLORING W/ 288	Depth	Deviation		
Depth	Deviation				Depth	Deviation	PAKCH OK.	Depth	Deviation		
Depth	Deviation				Depth	Deviation	5.51 11-3	Depth	Deviation		

[illegible][illegible]

8	9.6	8.6	6.8	225	1/2	Liner Size	6	Liner Size	4	7.1	6.5	3.1	4.30	1.4	Liner Size	2	Liner Size	
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[illegible][illegible]

11	9	6	103	28	225	1/2	7.4	2/32	12	7	4.7	90	26	210	18	3	4	2/32	12
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7	0.0	61	1.0	0.0	0	Aggeu Mos.	10-#	3	9.6	81	69	450	1/2	DRISCOSE 50#	11	9.7	93	26	300	14	20-#	MATERIALS CHARGED TO OPERATOR
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Cat Responder	Swab Cups	Swab Rubbers	Rotary Helper	Swab Cups	Rotary Helper
Rotary Helper	Swab Cups	Swab Rubbers	Rotary Helper	Swab Cups	Rotary Helper

Rotary Helper	F. SIBBLES	Fireman	O. MACKAY	Fireman	2. W. J. FARMER
Fireman	H. BUCKLE		C. BARNARD	Leaseman	

[illegible]

REMARKS	2-2.1	2.0	17.00	17.15	PERMITS N:0	800	P.15	SERV. NIG.	4	4
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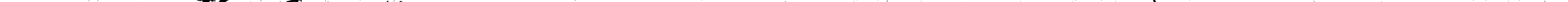
	SEAS	A.G.	12.15	200	M. P. L. 100m	73° North	815°	HCB	DARKLINE	41.15	12
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105T APPROXIMATELY 50 BBLs

AF mud in the hole before

REGDNING CIRC

[illegible][illegible][illegible][illegible][illegible]

Arthur W. ...
Company Representative
R. ...
Tool Pusher

GUTHRIE MCLAREN DRILLING LTD.

Well No. WEST TATHLINA LAKE #2

Date JAN 25/60

Lsd. Sec. Twp. Rge. W.

Drilled From 3207 To 3208 Hole Made 1 Drilled From _____ To _____ Hole Made _____ Drilled From 3208 To _____ Hole Made _____

Bit No.	<u>13</u>	No. Stds.	<u>46-8</u>	Length	<u>2807.36</u>	Bit No.		No. Stds.		Length		Bit No.	<u>(14) 051267</u>	No. Stds.		Length	
Serial No.	<u>274 291212</u>	No. D.C.'s	<u>13</u>	Length	<u>363.97</u>	Serial No.		No. D.C.'s		Length		Serial No.		No. D.C.'s		Length	
Bit Size	<u>7 7/8</u>			Length		Bit Size				Length		Bit Size	<u>7 7/8</u>			Length	
Bit Type	<u>YSI</u>			Length		Bit Type				Length		Bit Type	<u>1 M.</u>			Length	
Dr. from	<u>3155</u>	Kelly in =			<u>36.67</u>	Dr. from		Kelly in =				Dr. from		Kelly in =			
Dr. to	<u>3208</u>	TOTAL =			<u>3208.00</u>	Dr. to		TOTAL =				Dr. to		TOTAL =			
Cored from		D.C.O.D. Top	<u>674</u>	Hrs. On Bottom	<u>1/4</u>	Cored from		D.C.O.D. Top	<u>674</u>	Hrs. On Bottom		Cored from		D.C.O.D. Top		Hrs. On Bottom	
Cored to		D.C.I.D. Top	<u>276</u>	Hrs. Off Bottom	<u>7 3/4</u>	Cored to		D.C.I.D. Top	<u>9 3/8</u>	Hrs. Off Bottom		Cored to		D.C.I.D. Top		Hrs. Off Bottom	
Reamed from	<u>3140</u>	Pipe Size	<u>4 1/2</u>	Trip Time		Reamed from		Pipe Size	<u>4 1/2</u>	Trip Time		Reamed from		Pipe Size		Trip Time	
Reamed to	<u>3155</u>	C.S.G. Set at	<u>225</u>	Serv. Time		Reamed to		C.S.G. Set at	<u>225</u>	Serv. Time		Reamed to		C.S.G. Set at		Serv. Time	
Total Bit Footage	<u>52</u>	C.S.G. Size	<u>8 5/8</u>	Rep. Time		Total Bit Footage		C.S.G. Size	<u>8 5/8</u>	Rep. Time		Total Bit Footage		C.S.G. Size		Rep. Time	
Bit Hrs.	<u>103 1/4</u>	Pipe in Hole	<u>93</u>	Jts.	Diesel Fuel Meter Reading	Bit Hrs.		Pipe in Hole		Jts.	REMARKS:	Bit Hrs.		Pipe in Hole		Jts.	REMARKS:
Table R.P.M.	<u>90</u>	Pipe on Racks	<u>43</u>	Jts.	Today <u>5' 5"</u>	Table R.P.M.		Pipe on Racks		Jts.	<u>FUEL 5-1</u>	Table R.P.M.		Pipe on Racks		Jts.	<u>PULL 5 feet</u>

Depth	Deviation	Total Pipe on Lease	<u>136</u>	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease		Jts.		Depth	Deviation	Total Pipe on Lease		Jts.	
Depth	Deviation				Consumption	Depth	Deviation					Depth	Deviation				
Depth	Deviation					Depth	Deviation					Depth	Deviation				
Depth	Deviation					Depth	Deviation					Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12							Liner Size	Liner Size	8							Liner Size	Liner Size
1							Water-Loss	Filter Cake	9							Water-Loss	Filter Cake
2									10								
3									11								
4									12								
5							Mud Added Sacks	<u>4500 # GEL</u>	1							Mud Added Sacks	<u>6 SX MagcoGel</u>
6							Chemicals Added Lbs.		2							Chemicals Added Lbs.	<u>31 SX Sawdust</u>
7									3								<u>10 SX Sealant</u>

CREW				MATERIALS CHARGED TO OPERATOR				CREW				MATERIALS CHARGED TO OPERATOR				CREW				MATERIALS CHARGED TO OPERATOR			
Driller	<u>D. CLARK</u>	Core Bit		Serial		Driller	<u>D. CLARK</u>	Core Bit		Serial		Driller	<u>D. CLARK</u>	Core Bit		Serial		Driller	<u>D. CLARK</u>	Core Bit		Serial	
Derrickman	<u>H. HUGULAR</u>	Reaming Bit		Serial		Derrickman	<u>H. HUGULAR</u>	Reaming Bit		Serial		Derrickman	<u>H. HUGULAR</u>	Reaming Bit		Serial		Derrickman	<u>H. HUGULAR</u>	Reaming Bit		Serial	
Cat Headman		Core Cutters SF. HF.			Core Catchers SF. HF.	Cat Headman		Core Cutters SF. HF.			Core Catchers SF. HF.	Cat Headman		Core Cutters SF. HF.			Core Catchers SF. HF.	Cat Headman		Core Cutters SF. HF.			Core Catchers SF. HF.
Rotary Helper	<u>D. TINDALL</u>	Swab Cups			Swab Rubbers	Rotary Helper	<u>D. TINDALL</u>	Swab Cups			Swab Rubbers	Rotary Helper	<u>D. TINDALL</u>	Swab Cups			Swab Rubbers	Rotary Helper	<u>D. TINDALL</u>	Swab Cups			Swab Rubbers
Rotary Helper	<u>E. SIBBESTON</u>					Rotary Helper	<u>E. SIBBESTON</u>					Rotary Helper	<u>E. SIBBESTON</u>					Rotary Helper	<u>E. SIBBESTON</u>				
Fireman	<u>H. RUGG</u>					Fireman	<u>H. RUGG</u>					Fireman	<u>H. RUGG</u>					Fireman	<u>H. RUGG</u>				
Leaseman						Leaseman						Leaseman						Leaseman					

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
DRILLING	1200	12.15	LOST ON LAST CIRC MAT.	800	400	SEAL. R.P.		
PULL 5 STANDS MIX MUD	12.15	3.30				W.P.T. FOR LOST CIRC MAT. @ 11.00		9.00
PULL OUT OF HOLE	3.30	4.45				MIX SAWDUST FIBRE SEAL & GEL		11.15
MIX MUD	4.45	8.00				RUNNING IN		11.15-12.00
LOST CIRC @ 3208 @ 12.05 PM								
9 Hrs. Time								

GUTHRIE MCLAREN DRILLING LTD.

Well No. WEST TATHKINA LAKE #2

Date JAN 24 / 60

Lsd. Sec. Twp. Rge. W.

CORED
Drilled From 3140 To 3155 Hole Made 15

Drilled From 3140 To 3174 Hole Made 34

Drilled From 3174 To 3207 Hole Made 37

Bit No.	12A	No. Stds.	44-5	Length	2686.30
Serial No.		No. D.C.'s	14	Length	392.45
Bit Size	6 7/8	EDRE BBL		Length	35.70
Bit Type	Q C11			Length	
Dr. from		Kelly in		40.55	
Dr. to		TOTAL		3155.00	
Cored from	3140	D.C.O.D. Top	6 1/4	Hrs. On Bottom	4
Cored to	3155	D.C.I.D. Top	27 1/2	Hrs. Off Bottom	4
Reamed from	APC 15 FT	Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	15	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	4	Pipe in Hole	89 Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	70	Pipe on Racks	57 Jts.	Today	6

Bit No.	13	No. Stds.	46	Length	2776.96
Serial No.	291212	No. D.C.'s	13	Length	365.47
Bit Size	7 3/4			Length	
Bit Type	V51			Length	
Dr. from	3155	Kelly in		53.07	
Dr. to	3174	TOTAL		3174.00	
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/4
Cored to		D.C.I.D. Top	27 1/2	Hrs. Off Bottom	4
Reamed from	3140	Pipe Size	4 1/2	Trip Time	
Reamed to	3155	C.S.G. Set at	225	Serv. Time	
Total Bit Footage	34	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	7 1/4	Pipe in Hole	92 Jts.	REMARKS:	
Table R.P.M.	100	Pipe on Racks	44 Jts.	OK CHECK HALL	

Bit No.	13	No. Stds.	46-7	Length	2801.36
Serial No.	291222	No. D.C.'s	13	Length	363.97
Bit Size	7 3/4			Length	
Bit Type	V51			Length	
Dr. from	3155	Kelly in		35.67	
Dr. to	3207	TOTAL		3207.00	
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	4 1/2
Cored to		D.C.I.D. Top	27 1/2	Hrs. Off Bottom	3 1/2
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	52	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	10 1/2	Pipe in Hole	93 Jts.	REM. RES:	
Table R.P.M.	90	Pipe on Racks	43 Jts.	Full 5 1/2 feet	

Depth	Deviation	Total Pipe on Lease	136 Jts.	Yesterday	
Depth	Deviation	Consumption	Gals.		
Depth	Deviation				
Depth	Deviation				

Depth	Deviation	Total Pipe on Lease	156 Jts.	OK CHECK HALL	
Depth	Deviation			ROCK OK.	
Depth	Deviation			FUEL 6000	
Depth	Deviation			BAS 248	

Depth	Deviation	Total Pipe on Lease	136 Jts.		
Depth	Deviation				
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	10.895	40	525	3/4	U		Liner Size	Liner Size
1	10.883	40	525	3/4	U		Water-Loss	Filter Cake
2	10.870	40	525	3/4	U		6.1	2/32
3	10.865	40	525	3/4	U		6.1	2/32
4	10.860	40	525	3/4	U			12
5							Mud Added Sacks	
6							Chemicals Added Lbs.	
7								

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	10.898	66	600	Full			Liner Size	Liner Size
9	10.897	66	600	"			Water-Loss	Filter Cake
10	10.894	66	600	"			6.0	2/32
11	10.881	66	600	"			6.1	2/32
12	10.876	66	600	"			5.	2/32
1	10.853	66	600	"			Mud Added Sacks	
2	10.999	66	600	"			Chemicals Added Lbs.	CAUSTIC 200#
3	10.9105	66	600	"			RAY-E10	100#

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	10.896	66	600	3/3			Liner Size	Liner Size
5	"	75	66	4	1/4		Water-Loss	Filter Cake
6	"	78	66	4	1/4		5.9	2/32
7	"	80	66	4	1/4			12.5
8								
9							Mud Added Sacks	3400# GEL
10							Chemicals Added Lbs.	10 SX FIBRE SEAL
11	10.886	66	28	1/2			100# MY-LO-GEL	

CREW	MATERIALS CHARGED TO OPERATOR
Driller D. CLARK	Core Bit
Derrickman H. HUGULAR	Reaming Bit
Cat Headman D. TINDALL	Core Cutters SF. HF.
Rotary Helper E. SIBBESTON	Swab Cups
Fireman H. BOGGEY	Swab Rubbers
Leaseman	

CREW	MATERIALS CHARGED TO OPERATOR
Driller H. BARNFORD	Core Bit
Derrickman H. M. BERNER	Reaming Bit
Cat Headman E. DUPERON	Core Cutters SF. HF.
Rotary Helper C. H. B. W. LAK	Swab Cups
Rotary Helper	Swab Rubbers
Fireman D. MACKAY	
Leaseman J. BERBERAND	

CREW	MATERIALS CHARGED TO OPERATOR
Driller E. LARASSE	Core Bit
Derrickman W. TADANSON	Reaming Bit
Cat Headman W. BERTSTREISEA	Core Cutters SF. HF.
Rotary Helper R. WILKINS	Swab Cups
Rotary Helper	Swab Rubbers
Fireman L. DUFFEARD	
Leaseman	

REMARKS	FROM	TO
Q COREING	12.00	4.00
PULL OUT WITH CORE	4.00	5.30
HANDLE CORE & BBL	5.30	6.30
RUN IN	6.30	6.45
LAY DOWN 1 DRILL COLLAR	6.45	7.00
RUN IN	7.00	8.00

REMARKS	FROM	TO
SERVICE 219	8.00	8.15
RUN IN w/ 7 3/4 BIT	8.15	8.45
REAMING TO 7 3/4 HOLE	8.45	9.00
REAMING TO 7 3/8 HOLE	9.15	11.00
DRILLING 7 3/8 HOLE		

REMARKS	FROM	TO
SERV. H.C.	11.15	11.25
DRILLING	11.15	11.02
LAST CIRC @ 3203		
Pull up 6.50s Max Mud	8.00	
6 FIBRE SEAL		11.00
RUN IN REAMING CIRC	11.00	11.15
DRILLING w/ Low P.P.	11.15	12.00

Core #3 3140-55

LAST CIRC 8.00 PM
DRILL 3100'

Company Representative
B. Robinson
Tool Pusher

GUTHRIE MCLAREN DRILLING LTD.

Well No. WEST TATHLINA LAKE #2

Date Jan. 23/60

Lsd. Sec. Twp. Rge. W.

Drilled From 3005 To 3076 Hole Made 71

Drilled From 3076 To 3137 Hole Made 61

Drilled From 3137 To 3140 Hole Made 3

Bit No.	12	No. Stds.	44	Length	2655.77	Bit No.	12	No. Stds.	45	Length	2716.29	Bit No.	12	12A	No. Stds.	44-5	Length	2486.90
Serial No.	091579	No. D.C.'s	14	Length	392.45	Serial No.	091579	No. D.C.'s	14	Length	392.45	Serial No.	091579		No. D.C.'s	14	Length	392.45
Bit Size	7 3/4			Length		Bit Size	7 3/4			Length		Bit Size	7 3/4	6 3/4			Length	
Bit Type	VT			Length		Bit Type	VT			Length		Bit Type	VT	0		CORE BBL.	Length	55.70
Dr. from	2990	Kelly in			22.76	Dr. from	2990	Kelly in			28.26	Dr. from	2990		Kelly in			25.55
Dr. to	3071	TOTAL			3076.00	Dr. to	3137	TOTAL			3137.00	Dr. to	3140		TOTAL			3140.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 3/4	Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 3/4	Cored from		3140	D.C.O.D. Top	6 1/4	Hrs. On Bottom	
Cored to		D.C.I.D. Top	2 3/4	Hrs. Off Bottom	4	Cored to		D.C.I.D. Top	2 3/4	Hrs. Off Bottom	4	Cored to		3155	D.C.I.D. Top	2 3/4	Hrs. Off Bottom	
Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from			Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time		Reamed to		C.S.G. Set at	225	Serv. Time		Reamed to			C.S.G. Set at	225	Serv. Time	
Total Bit Footage	86	C.S.G. Size	8 3/4	Rep. Time		Total Bit Footage	147	C.S.G. Size	8 3/4	Rep. Time		Total Bit Footage	150		C.S.G. Size	8 3/4	Rep. Time	
Bit Hrs.	9	Pipe in Hole	85	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	16 3/4	Pipe in Hole	90	Jts.	REMARKS:	Bit Hrs.	17 1/4		Pipe in Hole	89	Jts.	REMARKS:
Table R.P.M.	100	Pipe on Racks	45	Jts.	Today 7:00 AM 1/2 full	Table R.P.M.	100	Pipe on Racks	46	Jts.	CHECKED BOPS	Table R.P.M.	100		Pipe on Racks	47	Jts.	FUEL FULL

Depth	Deviation	Total Pipe on Lease	136 Jts.	Yesterday	Consumption	Gals.	Depth	Deviation	Total Pipe on Lease	136 Jts.	KELLY COCK 6	Depth	Deviation	Total Pipe on Lease	136 Jts.	GAS. 2 1/2 ft
Depth	Deviation						Depth	Deviation			TIME ERTIN GUISHARD	Depth	Deviation			
Depth	Deviation						Depth	Deviation			OK	Depth	Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	10.766	66	600	3/4			7 1/4 x 14	6	8	11	70	66	650	3/4		7 1/4 x 14	6
1	10.366	"	"	"	"		Water-Loss	Filter Cake	PH	9	11	80	66	650	3/4		Water-Loss
2	10.365	"	"	"	"		3.6	2/32	12	10	11	82	66	650	3/4		2/32
3	10.164	"	"	"	"		6.1	2/32	12	11	90	66	650	3/4		2/32	12
4	10.468	"	"	"	"		3.6	2/32	12	12	11	85	66	650	3/4		2/32
5	10.624	"	"	"	"		Mud Added Sacks	600# Maggel	1	11	83	66	650	3/4		Mud Added Sacks	
6	10.770	"	"	"	"		Chemicals Added Lbs.	100# Mylo Gel	2	10.8	76	66	650	3/4		Chemicals Added Lbs.	
7	10.768	"	"	"	"				3	10.8	71	66	700	3/4			

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Driller E. LACASSE	Core Bit	Driller D. CLARK	Core Bit	Driller H. HAMFORD	Core Bit
Cat Headman W. THOMPSON	Reaming Bit	Cat Headman H. HUCULAK	Reaming Bit	Cat Headman A. L. M. BARNER	Reaming Bit
Rotary Helper N. BERTSTREISEN	Core Cutters SF. HF.	Rotary Helper D. TINDALL	Core Cutters SF. HF.	Rotary Helper P. DUPEIRON	Core Cutters SF. HF.
Rotary Helper R. WILLIAMS	Swab Cups	Rotary Helper E. S. BESTON	Swab Cups	Rotary Helper H. HUCULAK	Swab Cups
Fireman L. DUPEIRON	Swab Rubbers	Fireman H. BURGIE	Swab Rubbers	Fireman N. MAREY	Swab Rubbers
Leaseman		Leaseman J. BERKANDT		Leaseman	

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
SERU R.C.	12	12:15	SERU R.C.	8:00	8:15	SERVICE RIG	4:00	4:15
DRILLING	12:15	8:00	DRILLING	8:15	4:00	DRILLING 7 3/4 HOLE	4:15	4:45
						CORE SAMPLE	4:45	5:15
						PULL OUT TO RUN MAGNET	5:15	6:45
						RUN IN W/ MAGNET	6:45	8:00
						CORE MAGNET	8:00	8:30
						PULL OUT TO CORE	8:30	10:00
						PICK UP CORE BBL. SERVICE TO	10:00	
						RUN.		10:15
						RUN IN W/ CORE BBL.	10:15	11:30
						SERU PRIOR TO CORE	11:30	12:00

DEPT. OF NORTHERN AFFAIRS & NATURAL RESOURCES
CALGARY, ALBERTA
JAN 27 1966
THE CONSERVATION ENGINEER
NORTHWEST TERRITORIES & YUKON TERRITORY

Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATHLINA LAKE #2

Lsd. Sec. Twp. Rge. W.

CORED
Drilled From 2880 To 2884 Hole Made 4

CORED
Date JAN 21/60
Drilled From 2884 To 2895 Hole Made 11

Drilled From 2880 To 2886 Hole Made 6
REAMED

Bit No.	10A	No. Stds.	40-5	Length	2444.35
Serial No.	17257	No. D.C.'s	11	Length	392.45
Bit Size	6 1/8	CORE BBL.	Length	34.30	
Bit Type	◇	SUB BIT	Length	1.39	
Dr. from		Kelly in		11.51	
Dr. to		TOTAL		2884.00	
Cored from	2880	D.C.O.D. Top	6 1/4	Hrs. On Bottom	1 1/4
Cored to	2884	D.C.I.D. Top	2 7/8	Hrs. Off Bottom	6 7/8
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	4	C.S.G. Size	8 7/8	Rep. Time	
Bit Hrs.	1 1/4	Pipe in Hole	81	Jts.	Diesel Fuel Meter Reading
Table R.P.M.	60	Pipe on Racks	55	Jts.	Today Fuel 2.10"

Depth	Deviation	Total Pipe on Lease	136	Jts.	Yesterday
Depth	Deviation	Consumption		Gals.	
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Via.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	11	87	64	600	3/4		7 1/4 x 1 1/4	
1							Liner Size 6	Liner Size
2							Water-Loss	Filter Cake
3							5.8	7 3/32
4								12.
5							Mud Added Sacks	
6							Chemicals Added Lbs.	
7	10.4	91	41	500	3/4			

CREW	MATERIALS CHARGED TO OPERATOR
F. LACASSE	Core Bit
Derrickman U. JOHNSON	Reaming Bit
Cat Headman N. BERSTREISER	Core Cutters SF. HF.
Rotary Helper R. WILKINS	Swab Cups
Rotary Helper	Swab Rubbers
Fireman A. DUPERON	
Leaseman	

REMARKS	FROM	TO
SERO R.C.	12	12.15
CIRC	12.15	12.30
Trip To Run MARKET	12.30	2.45
CIRC MARKET	2.45	3.15
Pull out	3.15	4.30
Pick & MAKE UP CORE BBL.	4.30	5.15
Run in	5.00	6.30
CIRC CORE bbl.	6.30	6.45
◇ CORING	6.45	8.00

Bit No.	10A	No. Stds.	40-5	Length	2444.35
Serial No.	17257	No. D.C.'s	14	Length	392.45
Bit Size	1 1/8	CORE BBL.	Length	34.30	
Bit Type	◇	SUB BIT	Length	1.39	
Dr. from		Kelly in		22.51	
Dr. to		TOTAL		2895.00	
Cored from	2880	D.C.O.D. Top	6 1/4	Hrs. On Bottom	3
Cored to	2895	D.C.I.D. Top	2 7/8	Hrs. Off Bottom	6 5
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	15	C.S.G. Size	8 7/8	Rep. Time	
Bit Hrs.	4 1/4	Pipe in Hole	81	Jts.	REMARKS:
Table R.P.M.	60	Pipe on Racks	55	Jts.	CHECK ROPS

Depth	Deviation	Total Pipe on Lease	136	Jts.	OK
Depth	Deviation				FUEL 2 7/8
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Via.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	10.7	95	41	500	3/4	✓	7 1/4 x 1 1/4	
9	10.7	95	41	500	3/4	✓	Liner Size 6	Liner Size
10	10.7	95	41	500	3/4		Water-Loss	Filter Cake
11	10.7	91	41	500	3/4		6.2	7 3/32
12								12
1							Mud Added Sacks	
2							Chemicals Added Lbs.	
3								

CREW	MATERIALS CHARGED TO OPERATOR
U. CLARK	Core Bit
Derrickman H. HUCULAK	Reaming Bit
Cat Headman	Core Cutters SF. HF.
Rotary Helper D. TINDALL	Swab Cups
Rotary Helper E. SIBBESTON	Swab Rubbers
Fireman H. BUCIE	
Leaseman J. BERBRANDT	

REMARKS	FROM	TO
◇ CORING	8.00	11.00
PULL OUT W/ CORE	11.00	12.30
HANDLE CORE & BBLs	12.30	1.30
PICK UP MAKE UP TOOL	1.30	2.30
RUN IN WITH PACKER	2.30	3.45
PICK UP 8 SINGLES TO REPLACE COLLAR	3.45	4.00
Rec 15 FT		
Core #2		

Bit No.	11	No. Stds.	41	Length	2475.65
Serial No.	194351	No. D.C.'s	14	Length	392.45
Bit Size	7 3/8			Length	
Bit Type	YSI			Length	
Dr. from		Kelly in			17.90
Dr. to		TOTAL			2886.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	1 1/4
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	6 7/8
Reamed from	2880	Pipe Size	4 1/2	Trip Time	
Reamed to	2886	C.S.G. Set at	225	Serv. Time	
Total Bit Footage	16	C.S.G. Size	8 7/8	Rep. Time	
Bit Hrs.	1 1/4	Pipe in Hole	82	Jts.	REMARKS:
Table R.P.M.	100	Pipe on Racks	54	Jts.	FUEL 2 7/8

Depth	Deviation	Total Pipe on Lease	136	Jts.	6.25 2 1/2
Depth	Deviation				
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Via.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4							7 1/4 x 1 1/4	
5							Liner Size 6	Liner Size
6							Water-Loss	Filter Cake
7							2/32	11.5
8								
9							Mud Added Sacks	
10							Chemicals Added Lbs.	
11								

CREW	MATERIALS CHARGED TO OPERATOR
H. B. M. FORD	Core Bit
Derrickman A. L. M. BURMAN	Reaming Bit
Cat Headman F. B. M. BURMAN	Core Cutters SF. HF.
Rotary Helper B. H. M. BURMAN	Swab Cups
Rotary Helper	Swab Rubbers
Fireman D. MACKAY	
Leaseman	

REMARKS	FROM	TO
SERVICE RIG	4.00	4.15
TESTING	4.15	7.00
PULL OUT W/ TEST	7.00	8.00
LAY DOWN TOOL	8.00	8.15
RUN IN HOLE W/ 7 3/8 BIT	9.15	10.45
10.45 1906		
12.5T. #1 2835-2895		
Tool open 120 min S.I. 30 Final S. 30 min		
Work in Puff Very weak air Blow Through		
out Test I.H. 1613 F.H. 1613		
1.51. 1250 F.S. 1250 1.58 F.F. 189		
Rec 260' muddy salt water.		

Core #2

Tool Pusher

Well No. WEST TATHUNA LAKE #2

Tsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Date - JAN 20/67

Drilled From 2647 To 2787 Hole Made 140

Drilled From 2787 To 2820 Hole Made 30

Drilled From 2870 To 2880 Hole Made 60

Bit No.	No. Stds.	Length	Bit No.	No. Stds.	Length	Bit No.	No. Stds.	Length	Bit No.	No. Stds.	Length
9	39	2354.23	9	40	2413.92	10	10		10	11	2475.62
Serial No. 594515	No. D.C.'s 14	Length 392.45	Serial No. 594598	No. D.C.'s 14	Length 392.45	Serial No. 4082772	No. D.C.'s 14	Length 392.45	Serial No. 4082772	No. D.C.'s 14	Length 392.45
Bit Size 7 7/8		Length	Bit Size 7 7/8		Length	Bit Size 7 7/8		Length	Bit Size 7 7/8		Length
Bit Type VTI		Length	Bit Type VTI		Length	Bit Type VTI		Length	Bit Type VTI		Length
Dr. from 2470	Kelly in =	40.32	Dr. from 2470	Kelly in =	13.63	Dr. from 2805	Kelly in =	2805	Dr. from 2805	Kelly in =	1190
Dr. to 2787	TOTAL =	2787.00	Dr. to 2805	TOTAL =	2820.00	Dr. to 2880	TOTAL =	2880	Dr. to 2880	TOTAL =	2880.00
Cored from	D.C.O.D. Top 6 1/4	Hrs. On Bottom 7 1/4	Cored from	D.C.O.D. Top 6 1/4	Hrs. On Bottom 7 1/4	Cored from	D.C.O.D. Top 6 1/4	Hrs. On Bottom 7 1/4	Cored from	D.C.O.D. Top 6 1/4	Hrs. On Bottom 7 1/4
Cored to	D.C.I.D. Top 2 7/8	Hrs. Off Bottom 3 1/4	Cored to	D.C.I.D. Top 2 7/8	Hrs. Off Bottom 3 1/4	Cored to	D.C.I.D. Top 2 7/8	Hrs. Off Bottom 3 1/4	Cored to	D.C.I.D. Top 2 7/8	Hrs. Off Bottom 3 1/4
Reamed from	Pipe Size 4 1/2	Trip Time	Reamed from	Pipe Size 4 1/2	Trip Time	Reamed from	Pipe Size 4 1/2	Trip Time	Reamed from	Pipe Size 4 1/2	Trip Time
Reamed to	C.S.G. Set at 225	Serv. Time	Reamed to	C.S.G. Set at 225	Serv. Time	Reamed to	C.S.G. Set at 225	Serv. Time	Reamed to	C.S.G. Set at 225	Serv. Time
Total Bit Footage 317	C.S.G. Size 8 5/8	Rep. Time	Total Bit Footage 335	C.S.G. Size 8 5/8	Rep. Time	Total Bit Footage 75	C.S.G. Size 8 5/8	Rep. Time	Total Bit Footage 75	C.S.G. Size 8 5/8	Rep. Time
Bit Hrs. 15	Pipe in Hole 78	Jts.	Bit Hrs. 17	Pipe in Hole 80	Jts.	Bit Hrs. 9	Pipe in Hole 80	Jts.	Bit Hrs. 9	Pipe in Hole 80	Jts.
Table R.P.M. 100	Pipe on Racks 58	Jts.	Table R.P.M. 100	Pipe on Racks 56	Jts.	Table R.P.M. 100	Pipe on Racks 56	Jts.	Table R.P.M. 100	Pipe on Racks 56	Jts.
	Diesel Fuel Meter Reading Today Fuel 3 1/2			CHECKED BARS			CHECKED BARS			CHECKED BARS	

Depth	Deviation	Total Pipe on Lease	Yesterday	Depth	Deviation	Total Pipe on Lease	REELY C&H	Depth	Deviation	Total Pipe on Lease
		136 Jts.		2805	6'4"	136 Jts.	O.K.			136 Jts.
Depth	Deviation		Consumption	Gals.	Depth	Deviation		Depth	Deviation	
Depth	Deviation				Depth	Deviation		Depth	Deviation	
Depth	Deviation				Depth	Deviation	FUEL 941.13"	Depth	Deviation	

Deviation										Deviation										Deviation																			
Depth	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Depth	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Depth	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size										
								7 1/4" x 1 1/4"											7 1/4" x 1 1/4"									7 1/4" x 1 1/4"											
12	10.7	80	66	600	34	✓		6 3/4"		8	10.7	68	68	600	34	✓		Liner Size 6			4	11.1	59	67	600	34		Liner Size 6"											
1	10.7	81	66	600	34	✓		Water-Loss	Filter Cake	PH	9	10.7	62	68	600	34		Water-Loss	Filter Cake	PH	5	11.0	66	67	600	34		Water-Loss	Filter Cake	PH									
2	10.7	81	66	600	34	✓		6.2	7/32	12	10							7.9	7/32	12	6	11.0	69	67	600	34		7.9	2/32	12									
3	10.7	82	66	600	34	✓		6.8	7/32	12	11							7.1	7/32	12	7	11.0	76	67	600	34		5.8	2/32	12									
4	10.8	80	66	600	34	✓		6.8	7/32	12	12							7.1	7/32	12	8	11.0	87	67	600	34		5.8	2/32	12									
5	10.8	79	66	600	34	✓		Mud Added Sacks			1							Mud Added Sacks			9	11.0	96	67	600	34		Mud Added Sacks											
6	10.7	77	66	600	34	✓		Chemicals Added Lbs.	100# MY-LO-GEL		2	11.2	70	68	600	34		Chemicals Added Lbs.			10	11.0	97	68	650	34	✓	Chemicals Added Lbs.	GAUSTIC	100#									
7	10.6	72	66	600	34	✓					3	11.2	57	68	600	34					11	11.0	95	68	650	34	✓												
																				CREW										MATERIALS CHARGED TO OPERATOR									

CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR		
Driller	F. LARSEN	Core Bit	Serial	Driller	D. CLARK	Core Bit	Serial	Driller	H. DODFORD	Core Bit	Serial						
Derrickman	W. THOMSON	Reaming Bit	Serial	Derrickman	H. HUCULAK	Reaming Bit	Serial	Perrickman	A. G. BARNER	Reaming Bit	Serial						
Cat Headman	A. BERRINGTON	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman		Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	E. DUPEREON	Core Cutters SF. HF.	Core Catchers SF. HF.						
Rotary Helper	R. WILKINS	Swab Cups	Swab Rubbers	Rotary Helper	D. TINDALL	Swab Cups	Swab Rubbers	Rotary Helper	C. HUCULAK	Swab Cups	Swab Rubbers						
Rotary Helper				Rotary Helper	E. SIBBESTON			Rotary Helper									
Fireman	L. DUPEREON			Fireman	H. DUCHE			Fireman	D. MACKAY								
Leaseman				Leaseman	J. CERRANDOT 13 hrs welding			Leaseman									
												FROM	TO				

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS
SEA RIG	12	12.15	SERV. RIG	8.00	8.15	SERVICE RIG	11.00	11.15	
DRILLING	12.15	1.15	DRILLING	8.15	10.15	DRILLING 7 th HOLE.	11.15	11.30	
REPAIR AND LINE	1.15	1.45	PROP SURVEY MEASURE OUT FOR	10.15		GEOP SAMPLES	11.15	12.00	
DRILLING	1.45	8:00	NEW BIT		12.30				
			RUN IN	12.30	2.00				
			DRILLING	2.00	4.00				
N BERGSTREISER 8 HAS									
SHORT TAN 16									
			MEASURED 2384.79						
			PRE TALLY 2384.71						
			DIFF. .08						

Tool Pusher

Well No. WEST TITHENA LAKE #2

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W _____

Drilled From 2495 To 2647 Hole Made 152

GUTHRIE McLAREN DRILLING LTD.

Well No. TATHALAKE EST 27

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Date JAN 18th / 68Drilled From 2011 To 2136 Hole Made 75Drilled From 2136 To 2268 Hole Made 132Drilled From 2268 To 2395 Hole Made 127

Bit No.	7	8	No. Stds.	30	Length	1810.58	Bit No.	8	No. Stds.	32	Length	1931.62	Bit No.	8	No. Stds.	34	Length	2054.37
Serial No.	975134	166789	No. D.C.'s	11	Length	309.96	Serial No.	166789	No. D.C.'s	11	Length	309.96	Serial No.	166789	No. D.C.'s	11	Length	309.96
Bit Size	7 7/8	7 7/8			Length		Bit Size	7 7/8			Length		Bit Size	7 7/8			Length	
Bit Type	YTI	YTI			Length		Bit Type	YTI			Length		Bit Type	YTI			Length	
Dr. from	1589	2121	Kelly in =		15.46		Dr. from	2121	Kelly in =		26.42		Dr. from	2121	Kelly in =		30.67	
Dr. to	2121	2136	TOTAL =		2136.00		Dr. to	2268	TOTAL =		2268.00		Dr. to	2395	TOTAL =		2395.00	
Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom	6	Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/2	Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	
			D.C.I.D. Top	2 1/4	Hrs. Off Bottom	2			D.C.I.D. Top	2 1/4	Hrs. Off Bottom	1/2			D.C.I.D. Top	2 1/4	Hrs. Off Bottom	
Cored to			Pipe Size	4 1/2	Trip Time		Cored to		Pipe Size	4 1/2	Trip Time		Cored to		Pipe Size	4 1/2	Trip Time	
Reamed from			C.S.G. Set at	225	Serv. Time		Reamed from		C.S.G. Set at	225	Serv. Time		Reamed from		C.S.G. Set at	225	Serv. Time	
Reamed to			C.S.G. Size	8 7/8	Rep. Time		Reamed to		C.S.G. Size	8 7/8	Rep. Time		Reamed to		C.S.G. Size	8 7/8	Rep. Time	
Total Bit Footage	532	18					Total Bit Footage	132					Total Bit Footage	274				
Bit Hrs.	76	1	Pipe in Hole	60	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	8 1/2	Pipe in Hole	64	Jts.	REMARKS:	Bit Hrs.	15 1/2	Pipe in Hole	60.3	Jts.	REMARKS:
Table R.P.M.	120	120	Pipe on Racks	76	Jts.	Today Fuel 3 gal.	Table R.P.M.	110	Pipe on Racks	73	Jts.	CHECKED R.D.B.C.	Table R.P.M.	110	Pipe on Racks	73	Jts.	FUEL 1.1

Depth	2100	Deviation	5 1/2	Total Pipe on Lease	136	Jts.	Yesterday	Depth	2190	Deviation	5 1/4	Total Pipe on Lease	136	Jts.	REMARKS:	Depth	2374	Deviation	5 1/4	Total Pipe on Lease	136	Jts.	REMARKS:
Deviation							Consumption	Deviation								Deviation							
Deviation								Deviation								Deviation							

Depth								Deviation								Depth								Deviation								Time								Time							
Time	Wt.	Vis.	Pump Stroke	Pump Pres- sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Pump Stroke	Pump Pres- sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pres- sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pres- sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size															
12	103	63	66	700	34		7 1/4 X 14	6 3/4	8	10.6	67	66	700	FULL	6 3/4	4	10.7	97	66	750	FULL		6 3/4	6 3/4	5	10.7	97	66	750	11		5.5	2132	12													
1	103	62	11	11	11		Water-Loss	Filter Cake	PH	9	10.6	68	66	700	✓	6.1	4 3/2	12	6	10.7	87	66	750	11	5.5	2132	12	6	10.7	87	66	750	11	5.5	2132	12											
2	103	64	11	4			5.9	2 1/2	12	10	10.6	68	60	750	✓	6.1	2 1/2	12	7	10.7	92	66	800	11	5.8	2132	12	7	10.7	92	66	800	11	5.8	2132	12											
3	104	62	11	4	11	✓	6.1	2 1/2	12	11	10.6	64	60	750	✓	6.1	2 1/2	12	8	10.7	97	66	800	11	6.1	2132	12	8	10.7	97	66	800	11	6.1	2132	12											
4	104	58	11	11	11	✓				12	10.6	64	60	750	✓	6.1	2 1/2	12	9	10.7	96	66	800	11																							
5	104	58	11	11	FULL		Mud Added Sacks	500# Gel	1	10.7	64	60	750	✓		Mud Added Sacks	RAY-FLO 50#	9	10.7	96	66	800	11																								
6							Chemicals Added Lbs.		2	10.9	64	60	750	✓		Chemicals Added Lbs.	7.11-LO-4L 100#	10	10.7	91	66	800	11	✓																							
7									3	10.9	64	60	750	✓			Caustic 50#	11	10.7	84	66	800	11	✓																							
MATERIALS CHARGED TO OPERATOR																																															

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Derrickman <u>F. LACASSE</u>	Core Bit	Driller <u>D. CLARK</u>	Core Bit	Driller <u>H. HUGOLMA</u>	Core Bit
Cat Headman <u>A. BERKESTEIN</u>	Reaming Bit	Cat Headman <u>H. HUGOLMA</u>	Reaming Bit	Cat Headman <u>E. L. DUBOIS</u>	Reaming Bit
Rotary Helper <u>R. WILKINS</u>	Core Cutters SF. HF.	Rotary Helper <u>D. TINDALL</u>	Core Cutters SF. HF.	Rotary Helper <u>C. H. DUBOIS</u>	Core Cutters SF. HF.
Fireman <u>L. DUBOIS</u>	Swab Cups	Fireman <u>E. SIBRESTON</u>	Swab Cups	Fireman <u>D. MACKAY</u>	Swab Cups
Leaseman	Swab Rubbers	Leaseman <u>H. RUGGIE</u>	Swab Rubbers	Leaseman	Swab Rubbers

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
SEAL RIG	12	12:15	SERV RIG	8:00	8:15	SERV RIG	100	11:15
DRILLING	12:15	8:15	DRILLING	8:15	11:15	DRILLING 7 7/8 HOLE	11:15	8:15
DRAP SURVEY TRAP FOR BIT	8:15	9:00	SURVEY	11:15	11:30	WORK ON MANNAFOLD	8:15	9:15
DRILLING	9:00	8:15	DRILLING	11:30	4:00	DRILLING 7 7/8 HOLE	9:15	10:00
						RUN SURVEY	10:00	10:30
						DRILLING 7 7/8 HOLE	10:30	11:15
						WORK ON MWD LINE	11:15	12:00
						DRILLING 7 7/8 HOLE		

Drilled From 1589 To 1706 Hole Made 117

Drilled From 1706 To 1889 Hole Made 183

Drilled From 1888 To 2041 Hole Made 152

Bit No.	7	No. Stds.	22-5	Length	1358.94
Serial No.	995734	No. D.C.'s	11	Length	309.96
Bit Size	2 3/4			Length	
Bit Type	171			Length	
Dr. from	1089	Kelly in =			37.10
Dr. to	1706	TOTAL =			1706.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	6 1/4
		D.C.I.D. Top	2 3/4	Hrs. Off Bottom	2 3/4
Cored to					
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	220	Serv. Time	
Total Bit Footage	117	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	6 1/4	Pipe in Hole	45	Jts.	Diesel Fuel Meter Reading
Table	170	Pipe on Racks	91	Jts.	Today 3 1/2 1000

Bit No.	7	No. Stda.	25-S	Length	1539.30
Serial No.	995134	No. D.C.'s	11	Length	309.96
Bit Size	7 7/8			Length	
Bit Type	VT1			Length	
Dr. from	1589	Kelly in =			39.74
Dr. to	1889	TOTAL =			1889.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/4
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	3 1/4
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	300	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	13 1/2	Pipe in Hole	51	Jts.	REMARKS:
Table R.P.M.	120	Pipe on Racks	85	Jts.	CHECKED KELLY

Bit No.	7	No. Stds.	28	Length	1690 Hrs
Serial No.	995134	No. D.C.'s	11	Length	3099
Bit Size	7 3/8			Length	
Bit Type	VTI			Length	
Dr. from	1589	Kelly in ==			405
Dr. to	2041	TOTAL ==			20410
Cored from		D.C.O.Dr. Top	6 1/2	Hrs. On Bottom	
Cored to		D.C.I.D. Top	2 3/8	Hrs. Off Bottom	
Reamed from		Pipe Size	11 1/2	Triip Time	
Reamed to		C.S.G. Set at	925	Serv. Time	
Total Bit Footage	1152.	C.S.G. Size	8 3/8	Rep. Time	
Bit Hrs.	21	Pipe in Hole	56	Jts.	REMARKS:
Table R.P.M.	120	Pipe on Racks	86	Jts.	FWEL 34

Depth	1590	Deviation	4°	Total Pipe on Lease	136 Jts.	Yesterday	
Depth		Deviation				Consumption	Gals
Depth		Deviation					
Depth		Deviation					

Depth	1709	Deviation	4 1/4°	Total Pipe on Lease	136 Jts.	ROCK F RO-PS
Depth	1829	Deviation	4 1/2°			OK
Depth		Deviation				FUEL 3' 4"
Depth		Deviation				

Depth	1948	Deviation	5°	Total Pipe on Lease	194 Jts.	GAS 25.7
Depth		Deviation				
Depth		Deviation				
Depth		Deviation				

Time	Wt.	Vis.	Pump Strokes	Pump Pressure	Plt Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	10.1	63	66	625	1/2	✓	Liner Size 6 3/4	Liner Size
1		TRIP					Water-Loss	Filter Cake
2	10.1	63	66	625	1/2	✓	6.2	7/32
3	10.1	64	"	"	"			12
4	10	64	"	"	"		6.2	7/32
5	10.1	64	"	"	"	✓	Mud Added Sacks	
6	10.1	62	"	"	"	✓	Chemicals Added Lbs.	100 Cement 50" Ray Sp.
7	10.1	60	66	650	"			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	14.1	55	66	700	7/3	✓	Liner Size 7 1/4 x 14	Liner Size
9	10.2	56	66	700	7/3		Water-Loss	Filter Cake
10	10.2	55	66	700	7/3		5.6	7/3
11	10.2	60	66	700	7/3		5.7	7/3
12	10.3	55	66	700	7/3		5.9	7/3
1	10.3	70	66	700	7/3	✓	Mud Added Sacks	7 1/2 800 #
2	10.4	68	66	700	7/3	✓	Chemicals Added Lbs.	RAY-7 1/2 100 #
3	10.4	72	66	700	7/3	✓		CAUSTIC 100 #

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	10.2	79	66	700	2 1/3		7 1/4 x 1 1/4	
5	10.2	78	66	700	2 1/3		Liner Size 6 3/4	Liner Size
6	10.2	72	66	700	2 1/3		Water-Loss 5.8	Filter Cake 2 1/3 2
7	10.2	74	66	700	2 1/3		5.9	2 1/3 2
8	10.2	78	66	700	2 1/3		6.9	2 1/3 2
9	10.2	72	66	700	2 1/3		Mud Added Sacks	12.5
10	10.2	74	66	700	2 1/3		Chemicals Added Lbs.	12.5
11	10.2	74	66	700	2 1/3			

CREW	MATERIALS CHARGED TO OPERATOR	
Dr. F. KASKE	Core Bit	Serial
Derrickman W. Johnson	Reaming Bit	Serial
Cat Headman H. BEARSTREISER	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper R. Williams	Swab Cups	Swab Rubbers
Rotary Helper		
Fireman L. DUPERREAU		
Leaseman		

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	O. CLARK	Core Bit	Serial
Derrickman	H. HUCULAR	Reaming Bit	Serial
Cat Headman		Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	D. TINDALL	Swab Cups	Swab Rubbers
Rotary Helper	E. SIBBESTON		
Fireman	H. BURGIE		
Leaseman	C. GERBRANDT		

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	H. BAMBORD	Core Bit	Serial
Derrickman	A. LUMBERNER	Reaming Bit	Serial
Cat Headman	F. D. DERRON	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	P. HECULAK	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	D. MACKAY		
Leaseman			

[illegible]

REMARKS	FROM	TO
SERU RIC RUN SURVEY	8.00	8.30
DRILLING	8.30	1.00
SURVEY	1.00	1.15
DRILLING	1.15	4.00
INSPECTED: DRILLING LINE, SAFETY LINE IN GOOD SHAPE. BREATHING APPARATUS OK. DIRTWORKS BRAKES FAIR.		

[illegible]

Company Representative

GUTHRIE MCLAREN DRILLING LTD.

Well No. TATHALAKE WESC 2 #

Tool Pusher

Date JAN 16 / 60

Lsd. Sec. Twp. Rge. W.

Drilled From 1367 To 1430 Hole Made 63

Drilled From 1430 To 1510 Hole Made 80

Drilled From 1510 To 1589 Hole Made 79

Bit No.	5	No. Stds.	18	Length	1088.25
Serial No.	29337	No. D.C.'s	21	Length	309.96
Bit Size	7 7/8			Length	
Bit Type	YT1			Length	
Dr. from	1144	Kelly in =			51.61
Dr. to	1430	TOTAL =			1430.00
Cored from		D.C.O.D. Top	6 3/4	Hrs. On Bottom	
Cored to		D.C.I.D. Top	2 3/4	Hrs. Off Bottom	
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	986	C.S.G. Size	8 7/8	Rep. Time	
Bit Hrs.	17 1/2	Pipe in Hole	36 Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	100	Pipe on Racks	106 Jts.	Today	144

Bit No.	6	No. Stds.	17-5	Length	1174.16
Serial No.	35223	No. D.C.'s	11	Length	309.96
Bit Size	7 7/8			Length	
Bit Type	2HM			Length	
Dr. from	1430	Kelly in =			20.84
Dr. to	1510	TOTAL =			1510.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	6
Cored to		D.C.I.D. Top	2 3/4	Hrs. Off Bottom	2
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	80	C.S.G. Size	8 7/8	Rep. Time	
Bit Hrs.	60	Pipe in Hole	38 Jts.	REMARKS:	
Table R.P.M.	90	Pipe on Racks	97 Jts.	CHECK BOP'S	

Bit No.	7	No. Stds.	21	Length	1268.38
Serial No.	35223	No. D.C.'s	19	Length	309.96
Bit Size	7 7/8			Length	
Bit Type	2HM			Length	
Dr. from	1430	Kelly in =			10.66
Dr. to	1589	TOTAL =			1589.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 3/4
Cored to		D.C.I.D. Top	2 3/4	Hrs. Off Bottom	4 1/4
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	4
Total Bit Footage	159	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	13 3/4	Pipe in Hole	42 Jts.	REMARKS:	
Table R.P.M.	90	Pipe on Racks	94 Jts.	FUEL 4' 3"	

Depth	1430	Deviation	3 3/4	Total Pipe on Lease	136 Jts.	Yesterday Gas	2-4"
Depth		Deviation		Consumption	Gals.		
Depth		Deviation					
Depth		Deviation					

Depth	1500	Deviation	3 3/4	Total Pipe on Lease	136 Jts.	Kelly Out	
Depth		Deviation					
Depth		Deviation					
Depth		Deviation					

Depth		Deviation		Total Pipe on Lease	136 Jts.		
Depth		Deviation					
Depth		Deviation					
Depth		Deviation					

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	10.2	57	66	700	1/3		7 1/4 x 14"	6 3/4"
1	10.2	58	66	450	1/3		Water-Loss	Filter Cake
2	10.2	78	66	450	1/3		5.0	2/32
3	10.2	80	66	450	1/3		5.0	2/32
4	10.2	84	66	700	1/3			
5	10.2	81	66	700	1/3		Mud Added Sacks	MARCOCEL 500 #
6							Chemicals Added Lbs.	CAUSTIC 25 #
7								RAY-FLO 50 #

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	10.1	55	66	700	1/3		7 1/4 x 14"	6 3/4"
9	10.1	55	66	700	1/3		Water-Loss	Filter Cake
10	10.1	55	66	700	1/3		5.6	2/32
11	10.1	54	66	800			5.8	2/32
12	10.1	54	66	800				
1	10.1	73	66	11			Mud Added Sacks	MARCOCEL 500 #
2	10.2	68	66	11			Chemicals Added Lbs.	
3	10.2	72	66	11				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	10.2	73	66	800	1/3		7 1/4 x 14"	6 3/4"
5	10.2	76	66	800	1/3		Water-Loss	Filter Cake
6	10.2	78	66	800	1/3		6.6	2/32
7	10.2	76	66	800	1/3		6.4	2/32
8	10.2	70	66	800	1/3		5.9	2/32
9	10.2	67	66	800	1/3			
10	10.2	67	66	700	1/3		Mud Added Sacks	RAY-FLO 250 #
11	10.1	70	66	700	1/3		Chemicals Added Lbs.	CAUSTIC 200 #

CREW	MATERIALS CHARGED TO OPERATOR
Driller H. HAMFORD	Core Bit
Derrickman A. L. M. BARNER	Reaming Bit
Cat Headmen F. DUBERRE	Core Cutters SF. HF.
Rotary Helper C. H. BARNER	Core Catchers SF. HF.
Rotary Helper	Swab Cups
Fireman D. MARKEY	Swab Rubbers
Leaseman	

CREW	MATERIALS CHARGED TO OPERATOR
Driller F. LARSEN	Core Bit
Derrickman W. JOHNSON	Reaming Bit
Cat Headmen N. BARNER	Core Cutters SF. HF.
Rotary Helper N. WILKINS	Core Catchers SF. HF.
Rotary Helper	Swab Cups
Fireman A. DUBERRE	Swab Rubbers
Leaseman J. BARNER	

CREW	MATERIALS CHARGED TO OPERATOR
Driller G. CLARK	Core Bit
Derrickman H. HUCOLAK	Reaming Bit
Cat Headmen	Core Cutters SF. HF.
Rotary Helper D. TINDALL	Core Catchers SF. HF.
Rotary Helper E. SIBBESTON	Swab Cups
Fireman H. BUCCIE	Swab Rubbers
Leaseman	

REMARKS	FROM	TO
SERVICE RIG	1200	1215
DRILLING 7 7/8 HOLE	1915	530
WORK ON DRAWWORKS	630	700
DROPPED SURVEY	700	715
PULL OUT NEW BIT	715	800

REMARKS	FROM	TO
SEAL RIG	8	8:15
PULL OUT	8:15	8:30
SERVICE D.P.'S	8:30	7:00
RUN IN	9	9:45
DRILLING	9:45	3
SURVEY	3	3:15
DRILLING	3:15	4:00

REMARKS	FROM	TO
SERV RIG	4:00	4:15
DRILLING	4:15	12:00

Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. TOTHELINE LAKE WEST 27

Tool Pusher

Date JAN 10/60

Lsd. Sec. Twp. Rge. W.

Drilled From 1163 To 1207 Hole Made 104

Drilled From 1207 To 1307 Hole Made 100

Drilled From 1307 To 1367 Hole Made 60

Bit No.	<u>4</u>	<u>5</u>	No. Stds.	<u>14-5</u>	Length	<u>87691</u>
Serial No.	<u>171904</u>	<u>295357</u>	No. D.C.'s	<u>11</u>	Length	<u>30996</u>
Bit Size	<u>7 3/8</u>	<u>7 3/8</u>			Length	
Bit Type	<u>VT</u>	<u>VT1</u>			Length	
Dr. from	<u>900</u>	<u>1144</u>	Kelly in =	<u>2013</u>		
Dr. to	<u>1144</u>	<u>1207</u>	TOTAL =	<u>120700</u>		
Cored from			D.C.O.D. Top	<u>6 1/2</u>	Hrs. On Bottom	
Cored to			D.C.I.D. Top	<u>2 7/8</u>	Hrs. Off Bottom	
Reamed from			Pipe Size	<u>4 1/2</u>	Trip Time	
Reamed to			C.S.G. Set at	<u>225</u>	Serv. Time	
Total Bit Footage	<u>544</u>	<u>63</u>	C.S.G. Size	<u>8 3/4</u>	Rep. Time	
Bit Hrs.	<u>19 1/2</u>	<u>274</u>	Pipe in Hole	<u>29</u>	Jts.	Diesel Fuel Meter Reading
Table R.P.M.	<u>100</u>	<u>100</u>	Pipe on Racks	<u>107</u>	Jts.	Today <u>2 1/2</u> "

Bit No.	<u>5</u>	No. Stds.	<u>16</u>	Length	<u>96707</u>
Serial No.	<u>295357</u>	No. D.C.'s	<u>11</u>	Length	<u>30796</u>
Bit Size	<u>7 3/8</u>			Length	
Bit Type	<u>VT1</u>			Length	
Dr. from	<u>1144</u>	Kelly in =	<u>29.77</u>		
Dr. to	<u>1307</u>	TOTAL =	<u>130700</u>		
Cored from		D.C.O.D. Top	<u>6 1/4</u>	Hrs. On Bottom	<u>7 1/4</u>
Cored to		D.C.I.D. Top	<u>2 3/4</u>	Hrs. Off Bottom	<u>3 1/4</u>
Reamed from		Pipe Size	<u>1 1/2</u>	Trip Time	
Reamed to		C.S.G. Set at	<u>225</u>	Serv. Time	
Total Bit Footage	<u>163</u>	C.S.G. Size	<u>8 3/4</u>	Rep. Time	
Bit Hrs.	<u>7 1/4</u>	Pipe in Hole	<u>32</u>	Jts.	REMARKS:
Table R.P.M.	<u>100</u>	Pipe on Racks	<u>104</u>	Jts.	<u>Full 2nd</u>

Bit No.	<u>5</u>	No. Stds.	<u>17</u>	Length	<u>102766</u>
Serial No.	<u>293357</u>	No. D.C.'s	<u>11</u>	Length	<u>30796</u>
Bit Size	<u>7 3/8</u>			Length	
Bit Type	<u>VT1</u>			Length	
Dr. from	<u>1144</u>	Kelly in =	<u>29.98</u>		
Dr. to	<u>1367</u>	TOTAL =	<u>136700</u>		
Cored from		D.C.O.D. Top	<u>6 1/4</u>	Hrs. On Bottom	<u>6</u>
Cored to		D.C.I.D. Top	<u>2 7/8</u>	Hrs. Off Bottom	<u>2</u>
Reamed from		Pipe Size	<u>4 1/2</u>	Trip Time	
Reamed to		C.S.G. Set at	<u>225</u>	Serv. Time	<u>1/5</u>
Total Bit Footage	<u>223</u>	C.S.G. Size	<u>8 3/4</u>	Rep. Time	<u>1 1/2</u>
Bit Hrs.	<u>13 1/4</u>	Pipe in Hole	<u>34</u>	Jts.	REMARKS:
Table R.P.M.	<u>100</u>	Pipe on Racks	<u>102</u>	Jts.	<u>FUEL 1'6"</u>

Depth	<u>1208</u>	Deviation	<u>1 3/4</u>	Total Pipe on Lease	<u>136</u>	Jts.	Yesterday
Depth	<u>1144</u>	Deviation	<u>3 1/2</u>				Consumption
Depth	<u>1197</u>	Deviation	<u>3 1/2</u>				Gals.

Depth	<u>1288</u>	Deviation	<u>3 1/4</u>	Total Pipe on Lease	<u>136</u>	Jts.	Yesterday
Depth		Deviation					Consumption
Depth		Deviation					Gals.

Depth	<u>1347</u>	Deviation	<u>40</u>	Total Pipe on Lease	<u>136</u>	Jts.	Yesterday
Depth		Deviation					Consumption
Depth		Deviation					Gals.

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	<u>99</u>	<u>42</u>	<u>66</u>	<u>300</u>			<u>7 1/4 x 1 1/4</u>	
1	<u>99</u>	<u>50</u>	<u>66</u>	<u>300</u>			<u>6 3/4</u>	
2	<u>99</u>	<u>57</u>	<u>66</u>	<u>300</u>			<u>6.8</u>	<u>2 1/32</u>
3	<u>99</u>	<u>85</u>	<u>66</u>	<u>300</u>			<u>6.8</u>	<u>2 1/32</u>
4								
5	<u>99</u>	<u>95</u>	<u>66</u>	<u>300</u>			<u>Mud Added: MASCOSOL 1400#</u>	
6	<u>99</u>	<u>50</u>	<u>66</u>	<u>300</u>			<u>Chemicals Added Lbs.</u>	
7	<u>99</u>	<u>55</u>	<u>66</u>	<u>300</u>				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	<u>99</u>	<u>62</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>7 1/4 x 1 1/4</u>	
9	<u>99</u>	<u>60</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>6 3/4</u>	
10	<u>10</u>	<u>58</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>6.8</u>	<u>2 1/32</u>
11	<u>10</u>	<u>67</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>6.2</u>	<u>2 1/32</u>
12	<u>10</u>	<u>68</u>	<u>66</u>	<u>400</u>	<u>1/4</u>			
1	<u>10</u>	<u>67</u>	<u>66</u>	<u>400</u>			<u>Mud Added: MY-LO-GEL - 100#</u>	
2	<u>10</u>	<u>63</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>Chemicals Added Lbs. CAUSTIC - 25#</u>	
3	<u>10</u>	<u>61</u>	<u>66</u>	<u>650</u>			<u>RAYFLO - 50#</u>	

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	<u>10.1</u>	<u>62</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>7 1/4 x 1 1/4</u>	
5	<u>10.1</u>	<u>63</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>6 3/4</u>	
6	<u>10.1</u>	<u>63</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>6.8</u>	<u>2 1/32</u>
7	<u>10.2</u>	<u>65</u>	<u>66</u>	<u>400</u>	<u>1/4</u>		<u>6.9</u>	<u>2 1/32</u>
8	<u>10.2</u>	<u>66</u>	<u>66</u>	<u>700</u>	<u>1/2</u>			
9	<u>10.1</u>	<u>63</u>	<u>66</u>	<u>700</u>	<u>1/2</u>		<u>Mud Added: Sacks</u>	
10	<u>10.1</u>	<u>63</u>	<u>66</u>	<u>700</u>	<u>1/2</u>		<u>Chemicals Added Lbs.</u>	
11	<u>10.2</u>	<u>56</u>	<u>66</u>	<u>700</u>	<u>1/2</u>			

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>H. DAMFORD</u>	Core Bit
Derrickman <u>ALAN BARNER</u>	Reaming Bit
Cat Headman <u>F. DUPERRON</u>	Core Cutters SF. HF.
Rotary Helper <u>E. HUBELAK</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>D. MACKAY</u>	
Leaseman	

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>E. LACKSE</u>	Core Bit
Derrickman <u>W. JOHNSON</u>	Reaming Bit
Cat Headman <u>J. BERSSEISER</u>	Core Cutters SF. HF.
Rotary Helper <u>R. WILKINS</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>L. DUPERRON</u>	
Leaseman <u>J. FERBRANT</u>	

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>D. CLARK</u>	Core Bit
Derrickman <u>H. HUBELAK</u>	Reaming Bit
Cat Headman	Core Cutters SF. HF.
Rotary Helper <u>D. TINDALL</u>	Swab Cups
Rotary Helper <u>E. SIBBESTON</u>	Swab Rubbers
Fireman <u>H. BURGIE</u>	
Leaseman	

REMARKS	FROM	TO
SERVICE RIG	<u>1200</u>	<u>1215</u>
RUN SURVEY	<u>1215</u>	<u>1230</u>
DRILLING 7 3/8 HOLE	<u>1230</u>	<u>330</u>
DROPPED SURVEY & PULL OUT FOR NEW BIT.		<u>430</u>
RUN IN NEW BIT	<u>430</u>	<u>500</u>
DRILLING 7 3/8 HOLE	<u>500</u>	<u>700</u>
RUN SURVEY	<u>700</u>	<u>715</u>
DRILLING 7 3/8 HOLE	<u>715</u>	<u>800</u>

REMARKS	FROM	TO
SERV. RIG	<u>8</u>	<u>8:15</u>
DRILLING	<u>8:15</u>	<u>2:45</u>
RUN SURVEY	<u>2:45</u>	<u>3:00</u>
DRILLING	<u>3:00</u>	<u>3:45</u>
CHANGE CHAND PACKING IN PUMP	<u>3:45</u>	<u>4:00</u>

REMARKS	FROM	TO
SERV RIG	<u>4:00</u>	<u>4:15</u>
CHANGE CHAND PACKING	<u>4:15</u>	<u>5:15</u>
DRILLING	<u>5:15</u>	<u>7:45</u>
REPAIR NIPPLE IN MUD LINE	<u>7:45</u>	<u>8:15</u>
DRILLING	<u>8:15</u>	<u>9:15</u>
SURVEY	<u>9:15</u>	<u>9:30</u>
DRILLING	<u>9:30</u>	<u>12:00</u>

Company Representative
B. H. H. H.
Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. FATHIMA LAKE WEST 2A

Date JAN 14/60

Lsd. Sec. Twp. Rge. W.

Drilled From 763 To 860 Hole Made 97

Drilled From 860 To 1000 Hole Made 140

Drilled From 1000 To 1103 Hole Made 103

Bit No.	3	4	No. Stds.	8-5	Length	515.43
Serial No.	72802	491904	No. D.C.'s	11	Length	309.96
Bit Size	7 3/8	7 3/8			Length	
Bit Type	VT	VT			Length	
Dr. from	563	800	Kelly in			3461
Dr. to	800		TOTAL			8600
Cored from			D.C.O.D. Top	6 1/2	Hrs. On Bottom	
Cored to			D.C.L.D. Top	2 1/2	Hrs. Off Bottom	
Reamed from			Pipe Size	4 1/2 FH	Trip Time	
Reamed to			C.S.G. Set at	2 3/4	Serv. Time	
Total Bit Footage	237	60	C.S.G. Size	8 3/8	Rep. Time	
Bit Hrs.	14 1/2	3 1/2	Pipe in Hole	17 Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	120	120	Pipe on Racks	18 1/2 Jts.	Today	3 1/2 10"

Bit No.	4	No. Stds.	10-5	Length	665.47
Serial No.	491904	No. D.C.'s	11	Length	309.96
Bit Size	7 7/8			Length	
Bit Type	VT			Length	
Dr. from	800	Kelly in			24.51
Dr. to	1000	TOTAL			1000.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	5 1/2
Cored to		D.C.L.D. Top	2 1/4	Hrs. Off Bottom	2 1/2
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	2 2 1/2	Serv. Time	
Total Bit Footage	200	C.S.G. Size	5 7/8	Rep. Time	
Bit Hrs.	8 3/4	Pipe in Hole	11 Jts.	REMARKS:	
Table R.P.M.	120	Pipe on Racks	12 1/2 Jts.	REMARKS:	Check 13.0 P. Kelly rock OK

Bit No.	4	No. Stds.	12	Length	757.63
Serial No.	491904	No. D.C.'s	11	Length	309.96
Bit Size	7 7/8			Length	
Bit Type	VT			Length	
Dr. from	800	Kelly in			35.41
Dr. to	1103	TOTAL			1103.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/4
Cored to		D.C.L.D. Top	2 1/8	Hrs. Off Bottom	3 1/4
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	2 2 1/2	Serv. Time	1 1/4
Total Bit Footage	303	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	16 1/2	Pipe in Hole	24 Jts.	REMARKS:	
Table R.P.M.	120	Pipe on Racks	11 1/2 Jts.	REMARKS:	FUEL 2' 4"

Depth	Deviation	Total Pipe on Lease	136 Jts.	Yesterday	2 1/2 31"
Depth	800	Deviation	1 3/4	Consumption	Gals.
Depth	836	Deviation	2%		

Depth	865	Deviation	1 1/2	Total Pipe on Lease	136 Jts.
Depth	955	Deviation	2 3/4		
Depth		Deviation			

Depth	1015	Deviation	2 3/4	Total Pipe on Lease	136 Jts.
Depth	1045	Deviation	2 3/4		
Depth		Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	9.5	61	86	450	Full	Nil	Liner Size 6 3/4	Liner Size
1	9.5	59	66	450	"	"	Water-Loss	Filter Cake
2	9.5	62	66	500	"	"	6.3	2 1/2
3	9.5	63	66	500	"	"	6.4	2 1/2
4							6.4	2 1/2
5	9.5	62	66	500	"	"	Mud Added Sacks	
6	9.5	61	66	500	"	"	Chemicals Added Lbs.	
7	9.5	60	66	500	"	"		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	9.6	57	66	300	3		Liner Size 6 3/4	Liner Size
9	"	56	"	"	3		Water-Loss	Filter Cake
10	"	54	"	"	4		6.6	2 1/2
11	"	55	"	"			7.0	
12	"	53	"	"	3 1/4		7.2	2 1/2
1	"	52	"	"	1 1/4		Mud Added Sacks	1000 # GEL
2	9.7	53	"	"	1 1/4		Chemicals Added Lbs.	CLEAN SAND TRAP
3	9.7	54	"	"	1 1/4			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	9.7	48	66	300	1 1/4		Liner Size 6 3/4	Liner Size
5	9.6	43	66	300	1 1/4		Water-Loss	Filter Cake
6	9.9	63	66	300	1 1/4		10.4	2 1/2
7	9.9	60	66	300	1 1/4		7.2	2 1/2
8	9.9	59	66	300	1 1/4			
9	9.9	60	66	300	1 1/4		Mud Added Sacks	1000 # GEL
10	9.9	61	66	300	1 1/4		Chemicals Added Lbs.	1000 # GEL
11	9.9	60	66	300	1 1/4			

CREW	MATERIALS CHARGED TO OPERATOR
Derrickman <u>M. B. BARNFORD</u>	Core Bit
Cat Headman <u>E. D. OPPERMAN</u>	Reaming Bit
Rotary Helper <u>C. H. BARNFORD</u>	Core Cutters SF. HF.
Rotary Helper	Swab Cups
Fireman <u>D. MACKAY</u>	Swab Rubbers
Leaseman	BREATHING APPARATUS
	ELECTRICITY OK
	HOOKS OK

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>C. H. BARNFORD</u>	Core Bit
Derrickman <u>M. B. BARNFORD</u>	Reaming Bit
Cat Headman <u>E. D. OPPERMAN</u>	Core Cutters SF. HF.
Rotary Helper <u>C. H. BARNFORD</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>D. MACKAY</u>	BREATHING APPARATUS
Leaseman	ELECTRICITY OK
	HOOKS OK

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>D. CLARK</u>	Core Bit
Derrickman <u>H. HUCULAK</u>	Reaming Bit
Cat Headman	Core Cutters SF. HF.
Rotary Helper <u>D. TINDALL</u>	Swab Cups
Rotary Helper <u>E. SIBBESTON</u>	Swab Rubbers
Fireman <u>H. RUGGIE</u>	BREATHING APPARATUS
Leaseman	ELECTRICITY OK
	HOOKS OK

REMARKS	FROM	TO
SERVICE RIG	1200	1215
DRILLING 7 3/8 HOLE	1215	1245
RUN SURVEY	1245	1300
DRILLING 7 3/8 HOLE	1300	1345
DROPPED SURVEY PULL OUT HOLE	1345	1355
FOR NEW BIT		
RUN IN W/ NEW BIT	1355	1430
DRILLING 7 3/8 HOLE	1430	1600
RUN SURVEY	1600	1615
DRILLING	1615	1800

REMARKS	FROM	TO
SEA-RIE RUN SURVEY	8	8:30
DRILLING	8:30	9:00
CHANGE HEAD RUBBERS IN PUMP	9	10
DRILLING	10	1:00
SURVEY	1	1:15
DRILLING	1:15	2:30
CLEANING #2 TANK	2:30	3:15
DRILLING	3:15	4:00

REMARKS	FROM	TO
SERV RIG	4:00	4:15
DRILLING	4:15	5:15
SURVEY	5:15	5:30
DRILLING	5:30	9:00
SURVEY	9:00	9:15
DRILLING	9:15	12:00

Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. TATHKINA LAKE WEST 2A

Tool Pusher

Date JAN. 13/60

Lsd. Sec. Twp. Rge. W.

Drilled From 526 To 548 Hole Made 22

Drilled From 563 To 650 Hole Made 87

Drilled From 650 To 763 Hole Made 113

Bit No.	2	3	No. Stds.	6	Length	365.11
Serial No.	12214		No. D.C.'s	5	Length	142.49
Bit Size	7 7/8	6 1/2	CORE BBL.		Length	343.0
Bit Type	2 HM. C. II		5405		Length	157
Dr. from	520		Kelly in			1973
Dr. to	748		TOTAL			563.00
Cored from		548	D.C.O.D. Top	6 1/2	Hrs. On Bottom	
Cored to		563	D.C.I.D. Top	2 3/4	Hrs. Off Bottom	
Reamed from			Pipe Size	2 1/2	Frip Time	
Reamed to			C.S.G. Set at	225	Serv. Time	
Total Bit Footage	228	15	C.S.G. Size	2 3/8	Rep. Time	
Bit Hrs.	17	2 1/2	Pipe in Hole		Jts.	Diesel Fuel Meter Reading
Table R.P.M.	100	70	Pipe on Racks		Jts.	Today 4-20

Bit No.	3	No. Stds.	5	Length	304.26
Serial No.	75802	No. D.C.'s	11	Length	309.96
Bit Size	7 7/8			Length	
Bit Type	VT			Length	
Dr. from	563	Kelly in			38.78
Dr. to	650	TOTAL			600.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	4 3/4
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	3 1/4
Reamed from		Pipe Size	2 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	87	C.S.G. Size	2 3/4	Rep. Time	
Bit Hrs.	4 3/4	Pipe in Hole	10	Jts.	REMARKS:
Table R.P.M.	110	Pipe on Racks	126	Jts.	FUEL - 3 FT.

Bit No.	3	No. Stds.	7	Length	425.95
Serial No.	75802	No. D.C.'s	11	Length	309.96
Bit Size	7 7/8			Length	
Bit Type	VT			Length	
Dr. from	563	Kelly in			27.04
Dr. to	763	TOTAL			71.300
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/4
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	3 1/4
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	1/4
Total Bit Footage	280	C.S.G. Size	2 5/8	Rep. Time	
Bit Hrs.	12	Pipe in Hole	14	Jts.	REMARKS:
Table R.P.M.	100	Pipe on Racks	122	Jts.	

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday
Depth	Deviation	Consumption	Gals.	
Depth	Deviation			
Depth	Deviation			

Depth	Deviation	Total Pipe on Lease	Jts.	REMARKS:
Depth	Deviation			
Depth	Deviation			
Depth	Deviation			

Depth	Deviation	Total Pipe on Lease	Jts.	
Depth	Deviation			
Depth	Deviation			
Depth	Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	9.0	37	66	400	F.H.		7 1/4 x 11	
1	9.0	39	66	400	"		Liner Size 6 5/8	
2	9.0	37	66	"	"		Water-Loss	Filter Cake
3								PH
4								
5							Mud Added Sacks	
6	9.0	37	34	300	"		Chemicals Added Lbs.	
7	9.0	37	34	300	"			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8							7 1/4 x 11	
9							Liner Size 6 5/8	
10							Water-Loss	Filter Cake
11	9.0	37	66	300	3/4		10.4	2 1/2
12	9.1	36	66	300	1/4		9.6	2 1/2
1	9.1	35	66	300	2		8.2	12
2	9.3	41	66	350	7/4		Mud Added Sacks	MAGLOCCEL - 1200#
3	9.4	55	66	350	1		Chemicals Added Lbs.	MY LOCCEL - 250#

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	9.4	52	66	400	F.H.		7 1/4 x 14	
5	9.4	54	66	400	"		Liner Size 6 3/4	
6	9.4	56	66	400	"		Water-Loss	Filter Cake
7	9.4	58	66	400	"		6.8	3 1/2
8	9.4	60	66	400	"		6.1	3 1/2
9	9.4	63	66	400	"		6.0	3 1/2
10	9.4	63	66	400	"		Mud Added Sacks	
11	9.4	64	66	400	"		Chemicals Added Lbs.	My Lo-Cell #150

CREW	MATERIALS CHARGED TO OPERATOR
Derrickman H. DUMFORD	Core Bit
Cat Headman F. DUPERON	Reaming Bit
Rotary Helper E. H. G. G. G. G.	Core Cutters SF. HF.
Fireman D. M. M. M.	Core Catchers SF. HF.
Leaseman	Swab Cups

CREW	MATERIALS CHARGED TO OPERATOR
Driller E. JACKSON	Core Bit
Derrickman W. JOHNSON	Reaming Bit
Cat Headman H. M. M. M.	Core Cutters SF. HF.
Rotary Helper P. W. W. W.	Core Catchers SF. HF.
Fireman L. DUPERON	Swab Cups
Leaseman J. P. P. P.	

CREW	MATERIALS CHARGED TO OPERATOR
Driller D. CLARK	Core Bit
Derrickman H. H. H. H.	Reaming Bit
Cat Headman H. H. H. H.	Core Cutters SF. HF.
Rotary Helper D. TINDALL	Core Catchers SF. HF.
Fireman E. SIBBESTON	Swab Cups
Leaseman H. RUGGIE	

REMARKS	FROM	TO
SERVICE RIG	1200	1215
DRILLING 7 7/8 HOLE.	1215	215
PULL OUT HOLE TO RUN MAGNET	215	245
REEL MAGNET RUN IN 1/4 MAGNET	245	315
CORE W/ MAGNET	315	345
PULL OUT PICKED UP SOME IRON	345	415
PICK UP CORE BBL. SERVICE	415	445
RUN IN W/ CORE BBL	445	515
CORE PRIOR TO CORE	515	530
CORING	530	745
PULL OUT HOLE W/ CORE	745	800
CORE #1 548-563		

REMARKS	FROM	TO
SERV. RIG	8.	8:15
PULL CORE HOLE	8:15	8:30
RETRIEVE CORE	8:30	9:15
PICK UP 6 D.C.'s Run in	9:15	11:00
REAMING 6 1/2 TO 7 7/8	11:00	12:00
DRILLING	12:00	1:30
RUN SURVEY	1:30	1:45
DRILLING	1:45	4:00
DRILLING - LINE GOOD & SAFETY		
DRAWBACKS BRAKE PASSABLE		
BREATHING APPARATUS & PNEUMATIC GOOD		
FIRE EXTINGUISHERS CHARGED		

REMARKS	FROM	TO
SERV RIG	4:00	4:15
DRILLING	4:15	4:30
SURVEY	4:30	4:45
DRILLING	4:45	10:45
SURVEY	10:45	11:00
DRILLING	11:00	12:00

Art W. Heltz
Company Representative
B. P. Robertson
Tool Pusher

GUTHRIE MCLAREN DRILLING LTD.

Well No. TATHLINA LAKE WEST No. 2 #

Date JAN. 12th 60

Lsd. Sec. Twp. Rge. W.

Drilled From _____ To _____ Hole Made _____												Drilled From _____ To _____ Hole Made _____												Drilled From 500 To 526 Hole Made 26																																															
Bit No.				No. Stds.				Length				Bit No.				No. Stds.				Length				Bit No. 2				No. Stds. 6				Length 365.11																																							
Serial No.				No. D.C.'s				Length				Serial No.				No. D.C.'s				Length				Serial No. 12214				No. D.C.'s 5				Length 142.49																																							
Bit Size				Length				Bit Size				Length				Bit Size				Length				Bit Size 7 7/8				Length																																											
Bit Type				Length				Bit Type				Length				Bit Type				Length				Bit Type 2 1/2 M				Length																																											
Dr. from				Kelly in				Dr. from				Kelly in				Dr. from				Kelly in				Dr. from 320				Kelly in																																											
Dr. to				TOTAL				Dr. to				TOTAL				Dr. to				TOTAL				Dr. to 526				TOTAL																																											
Cored from				D.C.O.D. Top 6 1/2				Hrs. On Bottom				Cored from				D.C.O.D. Top				Hrs. On Bottom				Cored from				D.C.O.D. Top 6 1/4				Hrs. On Bottom																																							
Cored to				D.C.I.D. Top 27				Hrs. Off Bottom				Cored to				D.C.I.D. Top				Hrs. Off Bottom				Cored to				D.C.I.D. Top 27 1/2				Hrs. Off Bottom																																							
Reamed from				Pipe Size 4 1/2				Trip Time				Reamed from				Pipe Size				Trip Time				Reamed from				Pipe Size 4 1/2				Trip Time																																							
Reamed to				C.S.G. Set at 225				Serv. Time				Reamed to				C.S.G. Set at				Serv. Time				Reamed to				C.S.G. Set at 225				Serv. Time																																							
Total Bit Footage				C.S.G. Size 8 1/2				Rep. Time				Total Bit Footage				C.S.G. Size				Rep. Time				Total Bit Footage 206				C.S.G. Size 8 1/2				Rep. Time																																							
Bit Hrs.				Pipe in Hole Jts.				Diesel Fuel Meter Reading				Bit Hrs.				Pipe in Hole Jts.				REMARKS:				Bit Hrs. 15				Pipe in Hole Jts.				REMARKS:																																							
Table R.P.M.				Pipe on Racks Jts.				Today 3 1/2				Table R.P.M.				Pipe on Racks Jts.								Table R.P.M. 100				Pipe on Racks Jts.																																											
Depth				Deviation				Total Pipe on Lease Jts.				Depth				Deviation				Total Pipe on Lease Jts.				Depth				Deviation				Total Pipe on Lease Jts.																																							
Depth				Deviation				Consumption Gals.				Depth				Deviation								Depth				Deviation																																											
Depth				Deviation								Depth				Deviation								Depth				Deviation																																											
Depth				Deviation								Depth				Deviation								Depth				Deviation																																											
Time				Wt.				Vis.				Pump Stroke				Pump Pres-sure				Pit Gauge				Water Added				No. 1 Pump Size 7 1/4 x 1 1/4				No. 2 Pump Size																																							
12				9.4				46								1/4												Liner Size 6 3/4				Liner Size																																							
1				9.4				52								1/4												Water-Loss				Filter Cake				PH																																			
2				9.4				47								1/4																																																							
3				9.4				45																																																															
4				9.4				46																																																															
5				9.4				46																				Mud Added Sacks				25 BEL																																							
6																												Chemicals Added Lbs.																																											
7																																																																							
CREW												MATERIALS CHARGED TO OPERATOR												CREW												MATERIALS CHARGED TO OPERATOR												CREW												MATERIALS CHARGED TO OPERATOR											
Driller H. BARNFORD												Core Bit Serial												Driller F. LARSEN												Core Bit Serial												Driller D. CLARK												Core Bit Serial											
Derrickman A. G. M. BARNER												Working Bit WORK OVER ON AFTERNOON												Derrickman W. JOHNSON												Reaming Bit												Derrickman H. H. PULAK												Reaming Bit											
Cat Headman F. D. PERROIN												Core Cutters SF. HF. Core Catchers SF. HF.												Cat Headman N. BENNETT												Core Cutters SF. HF. Core Catchers SF. HF.												Cat Headman D. TINDALL												Core Cutters SF. HF. Core Catchers SF. HF.											
Rotary Helper E. HICKMAN												Swab Cups Swab Rubbers												Rotary Helper R. WILKINS												Swab Cups Swab Rubbers												Rotary Helper D. TINDALL												Swab Cups Swab Rubbers											
Rotary Helper																								Rotary Helper																								Rotary Helper																							
Fireman D. MACKAY																								Fireman L. D. PEARSON																								Fireman H. BURGIE																							
Leaseman																								Leaseman J. G. BARNETT																								Leaseman																							
REMARKS												FROM TO												REMARKS												FROM TO												REMARKS												FROM TO											
MAKE NEW JUNK BASKET.												1200 200												- SEAU - P.I.C.																								WAIT ON MAGNET												4.00 5.30											
PEARL HOLE												200 800												CIRC WAIT FOR MAGNET.												5 H												WORK ON HOISTING CLUTCH CONTROL												5.30 6.15											
																								RUN IN WATER BACK MUD												1.												PULL OUT TO RUN MAGNET												6.15 6.45											
																								START CONVENTIONAL												H 20												RUN IN WITH MAGNET												6.45 7.15											
																																																WORK MAGNET ON BOTTOM. PULL OUT												7.15 8.00											
																																																RUN IN WITH 7 7/8" BIT												8.00 8.30											
																																																DRILLING												8.30 8.40											

Company Representative
B. K. Ketchum
Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. TATHLINA LAKE WEST 2 #

Date JAN 11/50

Lsd. Sec. Twp. Rge. W.

Drilled From 192 To 500 Hole Made 8

Drilled From To Hole Made

Drilled From To Hole Made

Bit No.	2	No. Stds.	5-5	Length	33468
Serial No.	12714	No. D.C.'s	5	Length	14249
Bit Size	7 7/8			Length	
Bit Type	2 HM			Length	
Dr. from	320	Kelly in			2283
Dr. to	500	TOTAL			50000
Cored from		D.C.O.D. Top	64	Hrs. On Bottom	
Cored to		D.C.I.D. Top	278	Hrs. Off Bottom	
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	180	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	11 1/2	Pipe in Hole	Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	100	Pipe on Racks	Jts.	Today	445

Bit No.		No. Stds.		Length	
Serial No.		No. D.C.'s		Length	
Bit Size				Length	
Bit Type				Length	
Dr. from		Kelly in			
Dr. to		TOTAL			
Cored from		D.C.O.D. Top		Hrs. On Bottom	
Cored to		D.C.I.D. Top		Hrs. Off Bottom	
Reamed from		Pipe Size		Trip Time	
Reamed to		C.S.G. Set at		Serv. Time	
Total Bit Footage		C.S.G. Size		Rep. Time	
Bit Hrs.		Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.		Pipe on Racks	Jts.		

Bit No.		No. Stds.		Length	
Serial No.		No. D.C.'s		Length	
Bit Size				Length	
Bit Type				Length	
Dr. from		Kelly in			
Dr. to		TOTAL			
Cored from		D.C.O.D. Top		Hrs. On Bottom	
Cored to		D.C.I.D. Top		Hrs. Off Bottom	
Reamed from		Pipe Size		Trip Time	
Reamed to		C.S.G. Set at		Serv. Time	
Total Bit Footage		C.S.G. Size		Rep. Time	
Bit Hrs.		Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.		Pipe on Racks	Jts.		

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday
Depth	Deviation	Consumption	Gals.	
Depth	Deviation			

Depth	Deviation	Total Pipe on Lease	Jts.	
Depth	Deviation			
Depth	Deviation			

Depth	Deviation	Total Pipe on Lease	Jts.	
Depth	Deviation			
Depth	Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	9.4	51	66	500			7 1/4 x 14	
1	9.4	53	66	500			Liner Size 6 3/4	
2	9.4	53	66	500			Water-Loss	Filter Cake PH
3								
4	9.4	51	66	500				
5	9.0	34	66	300			Mud Added Sacks MACCOBEL 1200 #	
6	9.0	31	66	300			Chemicals Added Lbs. BICARB SODA 100 #	
7	8.0	38	66	300			RAYFLO 400 # CAUSTIC 50	

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	9.0	50	56	250 1/2			7 1/4 x 14	
9	9.0	38	56	250 1/2			Liner Size 6 3/4	
10	9.0	44	56	200 1/2			Water-Loss	Filter Cake PH
11	9.0	52	56	200 1/2				
12								
1							Mud Added Sacks 400 # JEL	
2							Chemicals Added Lbs.	
3								

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4								
5							Liner Size	Liner Size
6							Water-Loss	Filter Cake PH
7								
8								
9							Mud Added Sacks	
10							Chemicals Added Lbs.	
11								

CREW	MATERIALS CHARGED TO OPERATOR
Driller H. B. M. FORD	Core Bit
Derrickman A. G. M. BURNER	Reaming Bit
Cat Headman F. D. P. PERKIN	Core Cutters SF. HF.
Rotary Helper C. H. H. B. LAK	Swab Cups
Rotary Helper	Swab Rubbers
Fireman D. MARKEY	
Leaseman	

CREW	MATERIALS CHARGED TO OPERATOR
Driller F. L. C. ASSE	Core Bit
Derrickman W. T. H. ALSON	Reaming Bit
Cat Headman B. E. C. H. E. R. S. H. E. R. 16	Core Cutters SF. HF.
Rotary Helper R. W. K. I. N. S.	Swab Cups
Rotary Helper	Swab Rubbers
Fireman L. O. P. E. R. R. A. N.	
Leaseman J. C. E. R. A. R. A. N. T.	

CREW	MATERIALS CHARGED TO OPERATOR
Driller D. C. L. A. R. E.	Core Bit
Derrickman H. H. B. P. U. L. A. K.	Reaming Bit
Cat Headman	Core Cutters SF. HF.
Rotary Helper	Swab Cups
Rotary Helper D. T. I. N. D. A. L. L.	Swab Rubbers
Fireman H. B. U. C. C. I. E.	
Leaseman	

REMARKS	FROM	TO
SERVICE RIG	1200	1215
DRILLING 7 7/8 HOLE	1215	1245
CERC SAMPLE	1245	100
TRIP TO RUN JUNK BASKET	100	215
CERC JUNK BASKET	215	230
RUN SURVEY	230	245
PULL OUT TO CERC	245	315
BROKE JUNK BASKET SOME		
IRON IN HOLE		
RUN BACK IN CERC	315	345
W.O.O.	345	800

REMARKS	FROM	TO
SERV RIG	8	8:15
CIRC CORRUM MUD PRIOR	8:15	
TO RUN JUNK BASKET		9:00
RUN IN CIRC ABOVE JUNK	9:00	11:00
RUN JUNK BASKET	11:00	12:30
PULL OUT REMOVED BASKET	12:30	2:00
RUN BASKET UNABLE TO JUNK	2:00	
UP IRON		3:30
MAKING UP NEW BASKET	3:30	4:00

REMARKS	FROM	TO
MAKE NEW JUNK BASKET	4:00	6:00
RUNNING IN W/ JUNK BASKET	6:00	10:00
MAKE UP NEW JUNK BASKET	10:00	12:00



Company Representative

GUTHRIE MCLAREN DRILLING LTD.

Well No. TATHLING LAKE WEST 27

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Date JAN. 10TH / 60

Tool Pusher

Drilled From _____ To _____ Hole Made

Drilled From 320 To 392 Hole Made 72

Drilled From 392 To 492 Hole Made 100

Drilled From										To										Hole Made																			
No. Stds.										Length										No. Stds.										Length									
Serial No.										Length										Serial No.										Length									
Bit Size										Length										Bit Size										Length									
Bit Type										Length										Bit Type										Length									
Dr. from										Kelly in										Dr. from										Kelly in									
Dr. to										TOTAL										Dr. to										TOTAL									
Cored from										D.C.O.D. Top										Cored from										D.C.O.D. Top									
Cored to										D.C.I.D. Top										Cored to										D.C.I.D. Top									
Reamed from										Pipe Size										Reamed from										Pipe Size									
Reamed to										C.S.G. Set at										Reamed to										C.S.G. Set at									
Total Bit Footage										C.S.G. Size										Total Bit Footage										C.S.G. Size									
Bit Hrs.										Pipe in Hole										Bit Hrs.										Pipe in Hole									
Table R.P.M.										Pipe on Racks										Table R.P.M.										Pipe on Racks									
Depth										Deviation										Depth										Deviation									
Depth										Deviation										Depth										Deviation									
Depth										Deviation										Depth										Deviation									
Time										Wt.										Time										Wt.									
Vis.										Pump Stroke										Vis.										Pump Stroke									
Pump Pres-ure										Pit Gauge										Pump Pres-ure										Pit Gauge									
Water Added										No. 1 Pump Size										Water Added										No. 1 Pump Size									
No. 2 Pump Size										Liner Size										No. 2 Pump Size										Liner Size									
Water-Loss										Filter Cake										Water-Loss										Filter Cake									
PH										PH										PH										PH									
Mud Added Sacks										Mud Added Sacks										Mud Added Sacks										Mud Added Sacks									
Chemicals Added Lbs.										Chemicals Added Lbs.										Chemicals Added Lbs.										Chemicals Added Lbs.									
CREW										MATERIALS CHARGED TO OPERATOR										CREW										MATERIALS CHARGED TO OPERATOR									
Driller										Serial										Driller										Serial									
Derrickman										Serial										Derrickman										Serial									
Cat Headman										Core Catchers SF. HF.										Cat Headman										Core Catchers SF. HF.									
Rotary Helper										Swab Rubbers										Rotary Helper										Swab Rubbers									
Fireman										Leaseman										Fireman										Leaseman									
REMARKS										FROM										REMARKS										FROM									
TO										TO										TO										TO									
W.O.P										1300										W.O.P										1300									
DIG MOUSE HOLE																				W.O.P																			
PERC THROUGH HOLE TO KEEP																				RUN IN TO CEMENT										10 10:30									
3AM F WORM										800										CLEAN OUT HOLE TO										10:30									
																				BOTTOM										11 2									
																				DRILLING										11 2									
																				RUN SURVEY										2 2:15									
																				DRILLING										2:15 2:45									
																				TRIP TO ADD 2 COLLARS										2:45 3:15									
																				DRILLING										3:15 4:00									
																				FOUND NO HARD CEMENT																			
																				IN CASING																			

Company Representative

B. Robertson
Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATHLINA LAKE #2

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Date TAN 9 / 60

Drilled From _____ To _____ Hole Made _____

Drilled From _____ To _____ Hole Made _____

Drilled From _____ To _____ Hole Made _____

Bit No.		No. Stds.	Length	Bit No.		No. Stds.	Length	Bit No.		No. Stds.	Length	
Serial No.		No. D.C.'s	Length	Serial No.		No. D.C.'s	Length	Serial No.		No. D.C.'s	Length	
Bit Size			Length	Bit Size			Length	Bit Size			Length	
Bit Type			Length	Bit Type			Length	Bit Type			Length	
Dr. from		Kelly in ==		Dr. from		Kelly in ==		Dr. from		Kelly in ==		
Dr. to		TOTAL ==		Dr. to		TOTAL ==		Dr. to		TOTAL ==		
Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom	
Cored to		D.C.I.D. Top	Hrs. Off Bottom	Cored to		D.C.I.D. Top	Hrs. Off Bottom	Cored to		D.C.I.D. Top	Hrs. Off Bottom	
Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time	
Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time	
Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time	
Bit Hrs.		Pipe in Hole	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	Pipe in Hole	Jts.	REMARKS:	Bit Hrs.	Pipe in Hole	Jts.	REMARKS:
Table R.P.M.		Pipe on Racks	Jts.	Today	Table R.P.M.	Pipe on Racks	Jts.		Table R.P.M.	Pipe on Racks	Jts.	

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.	Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation			Consumption	Gals.	Depth	Deviation		Depth	Deviation		
Depth	Deviation					Depth	Deviation		Depth	Deviation		
Depth	Deviation					Depth	Deviation		Depth	Deviation		
Depth	Deviation					Depth	Deviation		Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size			No. 2 Pump Size			Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size			No. 2 Pump Size					
12							Liner Size			Liner Size			8							Liner Size			Liner Size					
1							Water-Loss	Filter Cake	PH	9							Water-Loss	Filter Cake	PH	5						Water-Loss	Filter Cake	PH
2										10										6								
3										11										7								
4										12										8								
5							Mud Added Sacks			1							Mud Added Sacks			9						Mud Added Sacks		
6							Chemicals Added Lbs.			2							Chemicals Added Lbs.			10						Chemicals Added Lbs.		
7										3										11								

CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D. CLARK	Core Bit	Serial	Driller	H. BARNFORD	Core Bit	Serial	Driller	F. LARASSE	Core Bit	Serial
Derrickman	H. HUCULAK	Reaming Bit	Serial	Derrickman	A. LYMBERG	Reaming Bit	Serial	Derrickman	C. JOHNSON	Reaming Bit	Serial
Cat Headman	L. SWETLEY	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	P. DUPERON	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	N. BARNTHUISER	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	A. MCINTOSH	Swab Cups	Swab Rubbers	Rotary Helper	C. HUGELAK	Swab Cups	Swab Rubbers	Rotary Helper	R. WILKINS	Swab Cups	Swab Rubbers
Rotary Helper				Rotary Helper				Rotary Helper			
Fireman	H. BUGGY			Fireman	D. MACKAY			Fireman	L. DUPERON		
Leaseman				Leaseman				Leaseman			

[illegible]

Antony
Company Representative

B. Robinson
Tool Pusher

GUTHRIE MCLAREN DRILLING LTD.

Well No. WEST TATH LINA LAKE #2

Date JAN 8 / 60

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From _____ To _____ Hole Made _____

Bit No.	No. Sds.	Length	Bit No.	No. Sds.	Length	Bit No.	No. Sds.	Length
Serial No.	No. D.C.'s	Length	Serial No.	No. D.C.'s	Length	Serial No.	No. D.C.'s	Length
Bit Size		Length	Bit Size		Length	Bit Size		Length
Bit Type		Length	Bit Type		Length	Bit Type		Length
Dr. from	Kelly in =		Dr. from	Kelly in =		Dr. from	Kelly in =	
Dr. to	TOTAL =		Dr. to	TOTAL =		Dr. to	TOTAL =	
Cored from	D.C.O.D. Top	Hrs. On Bottom	Cored from	D.C.O.D. Top	Hrs. On Bottom	Cored from	D.C.O.D. Top	Hrs. On Bottom
Cored to	D.C.L.D. Top	Hrs. Off Bottom	Cored to	D.C.L.D. Top	Hrs. Off Bottom	Cored to	D.C.L.D. Top	Hrs. Off Bottom
Reamed from	Pipe Size	Trip Time	Reamed from	Pipe Size	Trip Time	Reamed from	Pipe Size	Trip Time
Reamed to	C.S.G. Set at	Serv. Time	Reamed to	C.S.G. Set at	Serv. Time	Reamed to	C.S.G. Set at	Serv. Time
Total Bit Footage	C.S.G. Size	Rep. Time	Total Bit Footage	C.S.G. Size	Rep. Time	Total Bit Footage	C.S.G. Size	Rep. Time
Bit Hrs.	Pipe in Hole	Jts.	Bit Hrs.	Pipe in Hole	Jts.	Bit Hrs.	Pipe in Hole	Jts.
Table R.P.M.	Pipe on Racks	Jts.	Table R.P.M.	Pipe on Racks	Jts.	Table R.P.M.	Pipe on Racks	Jts.

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation			Consumption	Depth	Deviation		
Depth	Deviation			Gals.	Depth	Deviation		
Depth	Deviation				Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pres-sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pres-sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12							7 1/4 x 14	6 3/4	8	85	36	45		1/4		7 1/4 x 14	6 3/4
1							Water-Loss	Filter Cake	9	85	35	45		1/4		Water-Loss	Filter Cake
2									10								
3									11								
4									12								
5	30	50	100	1/4			Mud Added Sacks	42 #2000	1							Mud Added Sacks	
6	33	50	100	1/4			Chemicals Added Lbs.		2							Chemicals Added Lbs.	
7	35	50	100	1/4					3								

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Derrickman <i>D. CLARK</i>	Core Bit	Driller <i>H. GANFORD</i>	Core Bit	Derrickman <i>E. LARSEN</i>	Core Bit
Cat Headman <i>M. HUCULIK</i>	Reaming Bit	Derrickman <i>D. LUMBERNIE</i>	Reaming Bit	Cat Headman <i>N. BERGSTRAND</i>	Reaming Bit
Rotary Helper <i>L. SWEEZEN</i>	Core Cutters SF. HF.	Cat Headman <i>F. DUDEKON</i>	Core Cutters SF. HF.	Rotary Helper <i>N. BERGSTRAND</i>	Core Cutters SF. HF.
Rotary Helper <i>H. MCINTOSH</i>	Swab Cups	Rotary Helper <i>H. MEDWAK</i>	Swab Cups	Rotary Helper <i>H. WILKINS</i>	Swab Cups
Fireman <i>H. BUGGY</i>	Swab Rubbers	Fireman <i>D. MARKEH</i>	Swab Rubbers	Fireman <i>K. DUDEKON</i>	Swab Rubbers
Leaseman		Leaseman <i>J. GIBBERNDE</i>		Leaseman	

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
C SERU R.C	12.00	12.15	SERU R.C	8.00	8.15	C SERU R.C		
CLEAN OUT W/ 12 1/4" BIT TO 226'	12.15	1.30	CRRP CON. HALL	8.15	9.00	CLEANING CELLAR		
REAM OUT 15" HOLE TO 92'	1.30	3.00	PULL OUT TO RUN CASING	9.00	9.30	W-O C	11	12.
RUN IN W/ 12 1/4" BIT CIRCULATING EACH SINGLE	3.00	5.00	RUN CASING	9.30	11.00			
MIX MUD CIRC HOLE CLEAN	5.00	8.00	RIS UP TO CRRP CASING	11.00	11.30			
			CRRP CASING PRIOR TO CEMENT	11.30	11.5			
			RUN CEMENT	11.5	11.5			
			THIRD CEMENT JOB	11.5	11.5			
			CRRP SET AT 225.10 K.B.					
			CEMENTED BY HOWCO WITH 180 SCK					
			3% CLCA2 JOB COMPLETE 1.30 P.M.					
			90T RETURNS					

Art W. [Signature]
Company Representative
B. [Signature]
Tool Pusher

GUTHRIE MCLAREN DRILLING LTD.

Well No. WEST TATHLINA LAKE #2

Date JAN 6 1960

Lsd. Sec. Twp. Rge. W.

Drilled From 301 To 320 Hole Made 19

Drilled From To Hole Made

Drilled From To Hole Made

Bit No.	1	No. Stds.	3	Length	182.22
Serial No.	091581	No. D.C.'s	4	Length	113.76
Bit Size	3 7/8	I.F. SUB		Length	1.47
Bit Type	YT			Length	
Dr. from	247	Kelly in		22.55	
Dr. to	320	TOTAL		320.00	
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	225	Serv. Time	
Total Bit Footage	173	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	7 1/4	Pipe in Hole	Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	170	Pipe on Racks	Jts.	Today	

Bit No.		No. Stds.		Length	
Serial No.		No. D.C.'s		Length	
Bit Size				Length	
Bit Type				Length	
Dr. from		Kelly in			
Dr. to		TOTAL			
Cored from		D.C.O.D. Top		Hrs. On Bottom	
Cored to		D.C.I.D. Top		Hrs. Off Bottom	
Reamed from		Pipe Size		Trip Time	
Reamed to		C.S.G. Set at		Serv. Time	
Total Bit Footage		C.S.G. Size		Rep. Time	
Bit Hrs.		Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.		Pipe on Racks	Jts.	FUEL 6 1/2	

Bit No.		No. Stds.		Length	
Serial No.		No. D.C.'s		Length	
Bit Size				Length	
Bit Type				Length	
Dr. from		Kelly in			
Dr. to		TOTAL			
Cored from		D.C.O.D. Top		Hrs. On Bottom	
Cored to		D.C.I.D. Top		Hrs. Off Bottom	
Reamed from		Pipe Size		Trip Time	
Reamed to		C.S.G. Set at		Serv. Time	
Total Bit Footage		C.S.G. Size		Rep. Time	
Bit Hrs.		Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.		Pipe on Racks	Jts.		

Depth	300	Deviation	2°	Total Pipe on Lease	Jts.	Yesterday	
Depth		Deviation		Consumption	G. is.		
Depth		Deviation					
Depth		Deviation					

Depth		Deviation		Total Pipe on Lease	Jts.		
Depth		Deviation					
Depth		Deviation					
Depth		Deviation					

Depth		Deviation		Total Pipe on Lease	Jts.		
Depth		Deviation					
Depth		Deviation					
Depth		Deviation					

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12							7 1/4 X 14	
1							Liner Size 6 3/4	
2							Water-Loss	Filter Cake PH
3								
4	8.8	30	70	400	1/2			
5	8.8	30	70	400	1/2		Mud Added Sacks	
6	8.8	30	70	400	1/2		Chemicals Added Lbs.	Bicarb Soda 2300
7	8.8	30	70	400	1/2			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8								
9							Water-Loss	Filter Cake PH
10								
11								
12								
1							Mud Added Sacks	
2							Chemicals Added Lbs.	
3								

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4								
5							Water-Loss	Filter Cake PH
6								
7								
8								
9							Mud Added Sacks	
10							Chemicals Added Lbs.	
11								

CREW	MATERIALS CHARGED TO OPERATOR
Driller D. CLARK	Core Bit
Derrickman H. HUCULAK	Reaming Bit
Cat Headman L. SWEZEY	Core Cutters SF. HF.
Rotary Helper A. MCINTOSH	Swab Cups
Rotary Helper	Swab Rubbers
Fireman H. BUGGY	
Leaseman	

CREW	MATERIALS CHARGED TO OPERATOR
Driller H. BARNETT	Core Bit
Derrickman A. G. BURNER	Reaming Bit
Cat Headman F. DUFEIRON	Core Cutters SF. HF.
Rotary Helper C. HUCULAK	Swab Cups
Rotary Helper	Swab Rubbers
Fireman J. MACKAY	
Leaseman J. GERBERAND	

CREW	MATERIALS CHARGED TO OPERATOR
Driller F. LAPASSE	Core Bit
Derrickman W. THOMPSON	Reaming Bit
Cat Headman N. BERGSTRAND	Core Cutters SF. HF.
Rotary Helper R. WILKINS	Swab Cups
Rotary Helper	Swab Rubbers
Fireman L. DUFEIRON	
Leaseman	

REMARKS	FROM	TO
NIPPLE UP TO PRESSURE UP CASING	12:00	1:15
PRESSURE UP CASING	1:15	1:45
DRILL OUT CEMENT	1:45	3:00
RUN IN TO BOTTOM 7 7/8" HOLE @ 300'	3:00	3:30
DRILLING CASING DROPPED	3:30	5:30
PULL OUT OF HOLE & TAPPING OUT	5:30	
BLOWOUT PREVENTORS		8:00
PRESSURED UP CASING TO 700 PSI		
FOR 15 MIN HELD OK!		
TOP OF CEMENT AT 206 MR		
CASING DROPPED AT 5:30 PM		

REMARKS	FROM	TO
SERVICE RIG	8:00	8:15
TAKE OUT BOPS.	8:15	10:30
PULL 8" CASING	10:30	12:00
W.O.	12:00	4:00

REMARKS	FROM	TO
SERV. RIG	12	12:15
W.O. ORDERS	4	12:00

Found Top CEMENT @ 206.8.13

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATHALINA LAKE #2

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Date JAN 4 1960

Drilled From _____ To _____ Hole Made _____

Drilled From 0 To 167 Hole Made 167Drilled From 167 To 226 Hole Made 59

Bit No.	No. Stds.	Length	Bit No.	No. Stds.	Length	Bit No.	No. Stds.	Length
Serial No.	No. D.C.'s	Length	Serial No.	No. D.C.'s	Length	Serial No.	No. D.C.'s	Length
Bit Size		Length	Bit Size		Length	Bit Size		Length
Bit Type		Length	Bit Type		Length	Bit Type		Length
Dr. from	Kelly in =		Dr. from	Kelly in =		Dr. from	Kelly in =	
Dr. to	TOTAL =		Dr. to	TOTAL =		Dr. to	TOTAL =	
Cored from	D.C.O.D. Top	Hrs. On Bottom	Cored from	D.C.O.D. Top	Hrs. On Bottom	Cored from	D.C.O.D. Top	Hrs. On Bottom
Cored to	D.C.L.D. Top	Hrs. Off Bottom	Cored to	D.C.L.D. Top	Hrs. Off Bottom	Cored to	D.C.L.D. Top	Hrs. Off Bottom
Reamed from	Pipe Size	Trip Time	Reamed from	Pipe Size	Trip Time	Reamed from	Pipe Size	Trip Time
Reamed to	C.S.G. Set at	Serv. Time	Reamed to	C.S.G. Set at	Serv. Time	Reamed to	C.S.G. Set at	Serv. Time
Total Bit Footage	C.S.G. Size	Rep. Time	Total Bit Footage	C.S.G. Size	Rep. Time	Total Bit Footage	C.S.G. Size	Rep. Time
Bit Rrs.	Pipe in Hole	Jts.	Bit Rrs.	Pipe in Hole	Jts.	Bit Rrs.	Pipe in Hole	Jts.
Table R.P.M.	Pipe on Racks	Jts.	Table R.P.M.	Pipe on Racks	Jts.	Table R.P.M.	Pipe on Racks	Jts.

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday
Depth	Deviation			Consumption	Depth	Deviation			Consumption
Depth	Deviation				Depth	Deviation			
Depth	Deviation				Depth	Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12							Liner Size	Liner Size	8							Liner Size	Liner Size
1							Water-Loss	Filter Cake	9							Water-Loss	Filter Cake
2									10								
3									11								
4									12								
5							Mud Added Sacks		1							Mud Added Sacks	
6							Chemicals Added Lbs.		2							Chemicals Added Lbs.	
7									3								

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Derrickman <u>D. CLARK</u>	Driller <u>H. BARNARD</u>	Derrickman <u>H. BARNARD</u>	Driller <u>H. BARNARD</u>	Derrickman <u>H. BARNARD</u>	Driller <u>H. BARNARD</u>
Cat Headman <u>H. HUGHES</u>	Cat Headman <u>H. HUGHES</u>	Cat Headman <u>H. HUGHES</u>	Cat Headman <u>H. HUGHES</u>	Cat Headman <u>H. HUGHES</u>	Cat Headman <u>H. HUGHES</u>
Rotary Helper <u>A. MCINTOSH</u>	Rotary Helper <u>A. MCINTOSH</u>	Rotary Helper <u>A. MCINTOSH</u>	Rotary Helper <u>A. MCINTOSH</u>	Rotary Helper <u>A. MCINTOSH</u>	Rotary Helper <u>A. MCINTOSH</u>
Fireman <u>H. BUGGY</u>	Fireman <u>H. BUGGY</u>	Fireman <u>H. BUGGY</u>	Fireman <u>H. BUGGY</u>	Fireman <u>H. BUGGY</u>	Fireman <u>H. BUGGY</u>

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
SERV RIG	12:00	12:15	SERV RIG	8:00	8:15	SERV RIG	4	4:15
PULL CASING UP TAKE OFF BOTTOM	12:15		PULL CASING	8:15	9:30	PULLING OUT CEMENT	4:15	
PULLING CASING		8:00	PREPARE TO DRILL OUT CEMENT	9:30	1:30	To Bottom		4:30
			CLEAN TO BOTTOM			CIRC COND HOLE PRIOR TO	4:30	
			CLEAN CEMENT OUT HOLE	1:30	4:00	Run 8 3/4 CASING		6:00
						Pull out Run in w/ 7 1/4 To Bottom	6:00	6:30
						CIRC-	6:30	7:00
						Pull out Run in w/ 12 1/4 To 226	7:00	7:15
						CIRC-	7:15	
						Pull out Run in w/ 12 1/4 To 226 CIRC?		8:00
						Pull out & Run 8 3/4 CASING	8	10:00
						RIG UP & CIRC	10	11:00
						Run CEMENT & Pump SAME		
						FELT NO CEMENT REAMING		
						BUT GOT RETURNS.		

Arthur H. Huthrie
Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATHUMA LAKE #2

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Tool Pusher _____

Drilled From 207 To 243 Hole Made 36

REAMED 110 Date JAN. 1/60
Drilled From 243 To 247 Hole Made 42

Drilled From 207 To 226 Hole Made 24

Bit No.	<u>28</u>	No. Stds.	<u>1-5</u>	Length	<u>91.19</u>
Serial No.	<u>09167</u>	No. D.C.'s	<u>4</u>	Length	<u>113.76</u>
Bit Size	<u>7 3/4</u>	I.F. Sub		Length	<u>1.47</u>
Bit Type	<u>YT</u>			Length	
Dr. from	<u>80</u>	Kelly in		<u>36.54</u>	
Dr. to	<u>243</u>	TOTAL		<u>243.00</u>	
Cored from		D.C.O.D. Top		Hrs. On Bottom	<u>7 1/4</u>
Cored to		D.C.I.D. Top		Hrs. Off Bottom	<u>3/4</u>
Reamed from		Pipe Size	<u>4 1/2</u>	Trip Time	
Reamed to		C.S.G. Set at		Serv. Time	
Total Bit Footage	<u>163</u>	C.S.G. Size		Rep. Time	
Bit Hrs.	<u>14</u>	Pipe in Hole	Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	<u>160</u>	Pipe on Racks	Jts.	Today	

Bit No.	<u>28</u>	<u>18</u>	No. Stds.	<u>5</u>	Length	<u>29.80</u>
Serial No.	<u>09163</u>	<u>2R</u>	No. D.C.'s	<u>5</u>	Length	<u>140.71</u>
Bit Size	<u>7 3/8</u>	<u>12 1/4</u>	I.F. Sub		Length	<u>1.47</u>
Bit Type	<u>YT</u>	<u>OSC-3</u>			Length	
Dr. from	<u>80</u>		Kelly in		<u>30.02</u>	
Dr. to	<u>247</u>		TOTAL		<u>202.00</u>	
Cored from			D.C.O.D. Top		Hrs. On Bottom	
Cored to			D.C.I.D. Top		Hrs. Off Bottom	
Reamed from		<u>92</u>	Pipe Size		Trip Time	
Reamed to		<u>202</u>	C.S.G. Set at		Serv. Time	
Total Bit Footage	<u>167</u>	<u>110</u>	C.S.G. Size		Rep. Time	
Bit Hrs.	<u>18 1/4</u>	<u>9 3/4</u>	Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.	<u>160</u>	<u>140</u>	Pipe on Racks	Jts.		

Bit No.	<u>18</u>	No. Stds.	<u>1</u>	Length	<u>61.08</u>
Serial No.	<u>RT</u>	No. D.C.'s	<u>5</u>	Length	<u>146.71</u>
Bit Size	<u>12 1/4</u>			Length	
Bit Type	<u>OSC-3</u>			Length	
Dr. from		Kelly in		<u>2274</u>	
Dr. to		TOTAL		<u>226.00</u>	
Cored from		D.C.O.D. Top		Hrs. On Bottom	
Cored to		D.C.I.D. Top		Hrs. Off Bottom	
Reamed from	<u>92</u>	Pipe Size		Trip Time	
Reamed to	<u>226</u>	C.S.G. Set at		Serv. Time	
Total Bit Footage	<u>134</u>	C.S.G. Size		Rep. Time	
Bit Hrs.	<u>19 1/4</u>	Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.	<u>160</u>	Pipe on Racks	Jts.		

Depth	<u>217</u>	Deviation		Total Pipe on Lease	Jts.	Yesterday	
Depth		Deviation		Consumption	Gals.		
Depth		Deviation					
Depth		Deviation					

Depth		Deviation		Total Pipe on Lease	Jts.		
Depth		Deviation					
Depth		Deviation					
Depth		Deviation					

Depth		Deviation		Total Pipe on Lease	Jts.		
Depth		Deviation					
Depth		Deviation					
Depth		Deviation					

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	9.4	60	63	100	1/4		Liner Size <u>6 3/4</u>	Liner Size
1	9.4	158	63	100	1/4		Water-Loss	Filter Cake
2	9.4	155	63	100	1/4			
3	9.4	142	11	11	11			
4	9.4	137	11	11	11			
5	9.4	135	11	11	11		Mud Added Sacks <u>1000# GEL</u>	
6	9.4	120	11	11	11		Chemicals Added Lbs.	
7	9.4	116	11	11	11			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	9.4	115	60	100	1/4	✓	Liner Size <u>6 3/4</u>	Liner Size
9	9.4	112	60	100	1/4	✓	Water-Loss	Filter Cake
10	9.4	110	60	102	1/4			
11	9.4	110	60	102	1/4			
12	9.4	100	60	100	1/4			
1	9.4	99	60	100	1/4		Mud Added Sacks	
2	9.4	97	60	100	1/4		Chemicals Added Lbs.	
3	9.4	97	60	100	1/4			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	9.7	99	66	100	1/4		Liner Size <u>6 3/4</u>	Liner Size
5	9.7	97	66	100	1/4		Water-Loss	Filter Cake
6								
7								
8								
9							Mud Added Sacks	
10							Chemicals Added Lbs.	
11								

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>F. LACASSE</u>	Core Bit
Derrickman <u>N. JOHNSON</u>	Reaming Bit
Cat Headman <u>N. BERSTADSE</u>	Core Cutters SF. HF.
Rotary Helper <u>R. WILKINS</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>L. DUPEIRON</u>	
Leaseman	

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>D. CLARK</u>	Core Bit
Derrickman <u>H. HUCKLE</u>	Reaming Bit
Cat Headman <u>L. SWEEZEY</u>	Core Cutters SF. HF.
Rotary Helper <u>A. MCINTOSH</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>H. LUGG</u>	
Leaseman <u>T. PERBRANDT</u>	<u>12-HAS</u>

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>H. BARNFORD</u>	Core Bit
Derrickman <u>ALB. BARNER</u>	Reaming Bit
Cat Headman <u>P. DUPEIRON</u>	Core Cutters SF. HF.
Rotary Helper <u>C. HOLMBAK</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>D. MACKEL</u>	
Leaseman	

REMARKS	FROM	TO
SERV. RIG	12	12:15
DRILLING	12:15	2:00
SURVEY	2:00	2:15
DRILLING	2:15	6:00
TRIP TO CHECK BIT	6:00	6:15
DRILLING	6:15	8:00
UNABLE TO CATCH SAMPLES		
COND. PIPE WASHED OUT		

REMARKS	FROM	TO
SERV RIG	8:00	8:15
DRILLING	8:15	8:30
DROP SURVEY TRIP TO CHANGE BITS	8:30	9:15
DRILLING REAMING	9:15	11:00
TO 12 1/4" HOLE		

REMARKS	FROM	TO
SERVICE RIG	11:00	11:15
REAMING TO 12 1/4" HOLE	11:15	5:15
CER. HOLE	5:15	6:15
TRIP TO CON. HOLE	5:15	6:15
CER. TO CON. HOLE	6:15	7:50
RUN CASING	7:30	10:30
CER. CASING	10:30	12:00
12 1/4" 210.60 FT 8 3/8 24 LB J-55		
CASING SET 225.10 R.B.		
CEMENTED BY HOWCO WITH 175 SACK		
CONSTRUCTION CEMENT 2% C ² CA2		
106 completed. 12:15 AM. Jan 2.		
good cement returns		

Art Whitney
Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WEST TATHALIA LAKE #2

REAMED
Drilled From 87 To 97 Hole Made 10

REAMED
Drilled From 124 To 149 Hole Made 25

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____
Drilled From 149 To 207 Hole Made 58

Bit No.	<u>2</u>	<u>2A</u>	No. Stds.	Length
Serial No.	<u>P.T.</u>	<u>A.R.</u>	No. D.C.'s	<u>3</u> Length <u>83.35</u>
Bit Size	<u>1.5</u>	<u>1.25</u>	<u>I.F. SUB</u>	Length <u>1.17</u>
Bit Type	<u>OSC-3</u>			Length
Dr. from			Kelly in =	<u>12.15</u>
Dr. to			TOTAL =	<u>97.00</u>
Cored from			D.C.O.D. Top	Hrs. On Bottom
Cored to			D.C.I.D. Top	Hrs. Off Bottom
Reamed from	<u>0</u>	<u>92</u>	Pipe Size	Trip Time
Reamed to	<u>92</u>	<u>97</u>	C.S.G. Set at	Serv. Time
Total Bit Footage	<u>98</u>	<u>5</u>	C.S.G. Size	Rep. Time
Bit Hrs.	<u>6 1/4</u>	<u>1 1/4</u>	Pipe in Hole	Jts. Diesel Fuel Meter Reading
Table R.P.M.	<u>140</u>	<u>140</u>	Pipe on Racks	Jts. Today

Bit No.	<u>2A</u>	<u>2B</u>	No. Stds.	Length
Serial No.	<u>RR</u>	<u>091639</u>	No. D.C.'s	<u>4</u> Length <u>113.76</u>
Bit Size	<u>1.25</u>	<u>7/8</u>	<u>I.F. SUB</u>	Length <u>1.47</u>
Bit Type	<u>OSC-3</u>	<u>YT</u>		Length
Dr. from			Kelly in =	<u>33.77</u>
Dr. to			TOTAL =	<u>149.00</u>
Cored from			D.C.O.D. Top	Hrs. On Bottom
Cored to			D.C.I.D. Top	Hrs. Off Bottom
Reamed from	<u>92</u>		Pipe Size	Trip Time
Reamed to	<u>110</u>		C.S.G. Set at	Serv. Time
Total Bit Footage	<u>18</u>	<u>69</u>	C.S.G. Size	Rep. Time
Bit Hrs.	<u>3</u>	<u>8</u>	Pipe in Hole	Jts. REMARKS:
Table R.P.M.	<u>140</u>	<u>140</u>	Pipe on Racks	Jts.

Bit No.	<u>9A</u>		No. Stds.	Length
Serial No.	<u>091639</u>	<u>RR</u>	No. D.C.'s	<u>4</u> Length <u>113.76</u>
Bit Size	<u>7/8</u>		<u>I.F. SUB</u>	Length <u>1.47</u>
Bit Type	<u>YT</u>			Length
Dr. from	<u>80</u>		Kelly in =	<u>306.9</u>
Dr. to	<u>207</u>		TOTAL =	<u>207.00</u>
Cored from			D.C.O.D. Top	Hrs. On Bottom
Cored to			D.C.I.D. Top	Hrs. Off Bottom
Reamed from			Pipe Size	Trip Time
Reamed to			C.S.G. Set at	Serv. Time
Total Bit Footage	<u>76</u>		C.S.G. Size	Rep. Time
Bit Hrs.	<u>10 1/4</u>		Pipe in Hole	Jts. REMARKS:
Table R.P.M.	<u>150</u>		Pipe on Racks	Jts.

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday
Depth	Deviation			Consumption
Depth	Deviation			Gals.
Depth	Deviation			

Depth	Deviation	Total Pipe on Lease	Jts.	
Depth	Deviation			
Depth	Deviation			
Depth	Deviation			

Depth	Deviation	Total Pipe on Lease	Jts.	
Depth	Deviation			
Depth	Deviation			
Depth	Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	9.7	32	66	100	1/4		<u>7/4 x 14</u>	<u>6 3/4</u>
1	"	36	66	100	1/4		Water-Loss	Filter Cake
2	"	50	66	100	1/4			
3	"	62	66	100	1/4			
4	"	130	66	100	1/4			
5	9.2	115	66	100	1/4		Mud Added Sacks <u>4300</u>	<u>CEL</u>
6	9.8	100	66	100	1/4		Chemicals Added Lbs.	
7	9.6	95	66	100	1/4			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8							<u>7/4 x 14</u>	<u>6 3/4</u>
9							Water-Loss	Filter Cake
10								
11								
12								
1	9.4	97	66	100	1/4		Mud Added Sacks <u>1200</u>	<u>CEL</u>
2	9.4	65	66	100	1/4		Chemicals Added Lbs.	
3	9.4	125	66	100	1/4			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	9.5	130	66	100	1/4		<u>7/4 x 14</u>	<u>6 3/4</u>
5	9.5	110	66	100	1/4		Water-Loss	Filter Cake
6	9.5	125	66	100	1/4			
7	9.5	150	66	100	1/4			
8	9.5	140	66	100	1/4			
9	9.5	125	66	100	1/4		Mud Added Sacks <u>MACCEL</u>	<u>1800</u>
10	9.5	85	66	100	1/4		Chemicals Added Lbs.	
11	9.5	80	66	100	1/4			

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>F. LARASSE</u>	Core Bit
Derrickman <u>W. JOHNSON</u>	Reaming Bit
Cat Headman <u>N. BERSPREISER</u>	Core Cutters SF. HF.
Rotary Helper <u>R. WILKINS</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>L. DEPERON</u>	
Leaseman	

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>D. CLARK</u>	Core Bit
Derrickman <u>H. HUCKLAR</u>	Reaming Bit
Cat Headman <u>L. SWEETEV</u>	Core Cutters SF. HF.
Rotary Helper <u>A. MCINTOSH</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>H. BUGGY</u>	
Leaseman <u>J. GERBRANDT</u>	

CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>H. BARNFALL</u>	Core Bit
Derrickman <u>A. LYMBURNER</u>	Reaming Bit
Cat Headman <u>F. DEPERON</u>	Core Cutters SF. HF.
Rotary Helper <u>C. HARBELAK</u>	Swab Cups
Rotary Helper	Swab Rubbers
Fireman <u>D. MACKEY</u>	
Leaseman	

REMARKS	FROM	TO
SERV. RIG	12	12.15
PULL PIPE LOOSE PULL OUT	12.15	12.45
WAIT FOR MACCEL	12.45	1.15
MIX CEL CONN. MUD. BUILD	1.15	
USE.		5.00
REAMING W/ 15" BIT	5.00	6.00
PULL OUT CHANGE TO 12 1/4"	6.00	
TRYING TO BREAK 15" BIT		6.45
FROM D.C.		
REAMING W/ 12 1/4" BIT	6.45	8.00

REMARKS	FROM	TO
SERV RIG	9.00	9.15
REAM TO 12 1/4" HOLE	9.15	10.00
PULL OUT PUT ON 7/8" HOLE RUN IN	10.00	11.00
MUD COMING UP AROUND OUTSIDE		
CONDUCTOR PIPE		
RIG UP PUMP TO PUMP MUD	11.00	
FROM BELLAR TO MUD TANK		11.45
CLEAN OUT TO BOTTOM	11.45	12.30
DRILLING	12.30	4.00

REMARKS	FROM	TO
SERVICE RIG	400	415
RUN SURVEY	415	430
DRILLING 7/8" PILOT HOLE	430	900
RUN SURVEY	900	915
DRILLING 7/8" PILOT HOLE	915	1200
CON. PIPE WASHED OUT		
PUMP MUD FROM CEL TO		
MUD TANK. NO SAMPLES		
FROM 160 - 207		

Arthur H. H. H.
Company Representative

GUTHRIE MCLAREN DRILLING LTD.

Well No. WEST TATHALINA LAKE #2

Tool Pusher

Date DEC. 30/59

Lsd. Sec. Twp. Rge. W.

Drilled From 0 To 70 Hole Made 70

Drilled From 70 To 120 Hole Made 50

Drilled From 120 To 124 Hole Made 4
REAMED 0 87 87

Bit No.	1	No. Stds.	Length
Serial No.	693249	No. D.C.'s	2
Bit Size	7 7/8	I.F. Sub	Length 56.43
Bit Type	VT1	Length	1.47
Dr. from	Surface	Kelly in	12:10
Dr. to	70	TOTAL	70.00
Cored from		D.C.O.D. Top	6 1/4
Cored to		D.C.I.D. Top	2 7/8
Reamed from		Pipe Size	4 1/2
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage	58	C.S.G. Size	Rep. Time
Bit Hrs.	7 1/4	Pipe in Hole	Jts.
Table R.P.M.	140	Pipe on Racks	Jts.

Depth	40	Deviation	3/4°
Depth	70	Deviation	1°
Depth		Deviation	
Depth		Deviation	

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	9.3	45	58	50	1/4		7 1/4 X 14	
1	9.3	45	58	50	1/4		Liner Size 6 3/4	
2	9.3	45	66	350	1/4		Water-Loss	Filter Cake
3	9.3	45	66	350	1/4			PH 9.5
4	9.3	45	66	350	1/4			
5	9.3	40	66	350	1/4		Mud Added Sacks	
6	9.3	41	66	350	1/4		Chemicals Added Lbs.	LIME 50 #
7	9.3	54	66	350	1/4			

CREW	MATERIALS CHARGED TO OPERATOR
Driller E. LACASSE	Core Bit
Derrickman W. JOHNSON	Reaming Bit
Cat Headman AL. BERGSTERISER	Core Cutters SF. HF.
Rotary Helper R. WILKINS	Swab Cups
Fireman L. DUPEIRON	Swab Rubbers
Leaseman	

REMARKS	FROM	TO
Serv. rig	12:00	12:15
Spudded Drilling w. 2 p wt.	12:15	3:00
Survey	3:00	3:15
Drilling	3:15	7:00
Survey	7:00	7:15
Drilling w. 2 p wt.	7:15	8:00

Bit No.	1	No. Stds.	Length
Serial No. RR	693249	No. D.C.'s	3
Bit Size	7 7/8	I.F. Sub	Length 84.62
Bit Type	VT1	Length	1.47
Dr. from	Surface	Kelly in	33.91
Dr. to	80	TOTAL	120.00
Cored from		D.C.O.D. Top	6 1/4
Cored to		D.C.I.D. Top	2 7/8
Reamed from		Pipe Size	4 1/2
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage	68	C.S.G. Size	Rep. Time
Bit Hrs.	10	Pipe in Hole	Jts.
Table R.P.M.	140	Pipe on Racks	Jts.

Depth	100'	Deviation	
Depth		Deviation	
Depth		Deviation	
Depth		Deviation	

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8	9.3	45	70	350	1/4		7 1/4 X 14	
9	9.3	45	70	350	1/4		Liner Size 6 3/4	
10	9.3	45	70	350	1/4		Water-Loss	Filter Cake
11	9.3	45	70	350	1/4			PH 9.5
12	9.3	45	70	350	1/4			
1	9.3	45	70	350	1/4		Mud Added Sacks	Gel #500
2	9.3	45	70	350	1/4		Chemicals Added Lbs.	
3	9.3	45	70	350	1/4			

CREW	MATERIALS CHARGED TO OPERATOR
Driller O. CLARK	Core Bit
Derrickman H. HUCOLAK	Reaming Bit
Cat Headman L. SWEZEY	Core Cutters SF. HF.
Rotary Helper A. MCINTOSH	Swab Cups
Fireman H. BUGGY	Swab Rubbers
Leaseman J. GER BRANDT	

REMARKS	FROM	TO
Serv. rig	8:00	8:15
Drilling	8:15	11:00
Drop survey, pull up and put on new bit	11:00	11:30
Drilling	11:30	11:00

Bit No.	2	No. Stds.	Length
Serial No. R		No. D.C.'s	2
Bit Size	7 7/8	I.F. Sub	Length 55.04
Bit Type	VT1	Length	1.47
Dr. from	120	Kelly in	30.49
Dr. to	124	TOTAL	87.00
Cored from		D.C.O.D. Top	
Cored to		D.C.I.D. Top	
Reamed from		Pipe Size	
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage	87	C.S.G. Size	Rep. Time
Bit Hrs.	5 1/4	Pipe in Hole	Jts.
Table R.P.M.	150	Pipe on Racks	Jts.

Depth	125	Deviation	1 1/2°
Depth		Deviation	
Depth		Deviation	
Depth		Deviation	

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4	9.4	60	65	100			7 1/2 X 14	
5	9.4	62	66	100			Liner Size 6 3/4	
6	9.4	61	66	100			Water-Loss	Filter Cake
7	9.6	52	66	100				PH
8	9.6	52	66	100				
9	9.6	45	66	100			Mud Added Sacks	MAGCOGEI 700 #
10	9.6	40	66	100			Chemicals Added Lbs.	
11	9.6	35	66	100				

CREW	MATERIALS CHARGED TO OPERATOR
Driller H. RAMFORD	Core Bit
Derrickman A. LYMBURNER	Reaming Bit
Cat Headman F. DUPEIRON	Core Cutters SF. HF.
Rotary Helper C. HUCOLAK	Swab Cups
Fireman O. MACKEY	Swab Rubbers
Leaseman	

REMARKS	FROM	TO
Service rig	4:00	4:15
Drilling 7 7/8 pilot hole	4:15	5:00
Run survey	5:00	5:15
Pull out run in w. 15" bit	5:15	5:45
Reaming to 15"	5:45	11:00
Stuck in hole	11:00	12:00

Company Representative

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Tool Pusher

Drilled From _____ To _____ Hole Made _____ Drilled From _____ To _____ Hole Made _____ Drilled From _____ To _____ Hole Made _____

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday		Depth	Deviation	Total Pipe on Lease	Jts.		Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation			Consumption	Gals.	Depth	Deviation				Depth	Deviation		
Depth	Deviation					Depth	Deviation				Depth	Deviation		
Depth	Deviation					Depth	Deviation				Depth	Deviation		

CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR		
Driller	F. LACASSE		Core Bit	Serial		Driller	O. CLARK		Core Bit	Serial		Driller	H. BARNFORD		Core Bit	Serial	
Derrickman	W. JOHNSON		Reaming Bit	Serial		Derrickman	H. HUCULAK		Reaming Bit	Serial		Derrickman	A. LYMBURNER		Reaming Bit	Serial	
Cat Headman	N. BERGSTERIZER		Core Cutters SF. HF.	Core Catchers SF. HF.		Cat Headman	L. SWEZEY		Core Cutters SF. HF.	Core Catchers SF. HF.		Cat Headman	F. DUPERRON		Core Cutters SF. HF.	Core Catchers SF. HF.	
Rotary Helper	R. WILKINS		Swab Cups	Swab Rubbers		Rotary Helper	A. MCINTOSH		Swab Cups	Swab Rubbers		Rotary Helper	C. HUCULAK		Swab Cups	Swab Rubbers	
Rotary Helper						Rotary Helper						Rotary Helper					
Fireman	L. DUPERRON					Fireman	H. BUEGGY					Fireman	J. MACKAY				
Leaseman						Leaseman	J. GERBRANDT					Leaseman					

[illegible]

Company Representative

Tool Pusher

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Bit No.	1	No. Stds.	Length	Bit No.		No. Stds.	Length	Bit No.		No. Stds.	Length
Serial No.	RT	No. D.C.'s	Length	Serial No.		No. D.C.'s	Length	Serial No.		No. D.C.'s	Length
Bit Size	9		Length	Bit Size			Length	Bit Size			Length
Bit Type	ASQ2		Length	Bit Type			Length	Bit Type			Length
Dr. from		Kelly in ==		Dr. from		Kelly in ==		Dr. from		Kelly in ==	
Dr. to		TOTAL ==		Dr. to		TOTAL ==		Dr. to		TOTAL ==	
Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom
Cored to		D.C.I.D. Top	Hrs. Off Bottom	Cored to		D.C.I.D. Top	Hrs. Off Bottom	Cored to		D.C.I.D. Top	Hrs. Off Bottom
Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time
Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time
Bit Hrs.		Pipe in Hole	Jts.	Bit Hrs.		Pipe in Hole	Jts.	Bit Hrs.		Pipe in Hole	Jts.
Table R.P.M.		Pipe on Racks	Jts.	Table R.P.M.		Pipe on Racks	Jts.	Table R.P.M.		Pipe on Racks	Jts.
			Diesel Fuel Meter Reading				REMARKS:				REMARKS:
			Today								

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday		Depth	Deviation	Total Pipe on Lease	Jts.		Depth	Deviation	Total Pipe on Lease	Jts.	
Depth	Deviation			Consumption	Gals.	Depth	Deviation				Depth	Deviation			
Depth	Deviation					Depth	Deviation				Depth	Deviation			
Depth	Deviation					Depth	Deviation				Depth	Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	
12							Liner Size	Liner Size	8							Liner Size	Liner Size	4							Liner Size	Liner Size	
1							Water-Loss	Filter Cake	PH	9						Water-Loss	Filter Cake	PH	5						Water-Loss	Filter Cake	PH
2										10									6								
3										11									7								
4										12									8								
5							Mud Added Sacks			1						Mud Added Sacks	gel # 2200		9						Mud Added Sacks		
6							Chemicals Added Lbs.			2						Chemicals Added Lbs.	lime # 50		10						Chemicals Added Lbs.		
7										3		47							11								

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>F. LACASSE</u> 16 hrs	Core Bit <u>Loading</u> Serial <u>Casing</u>	Driller <u>D. CLARK</u>	Core Bit Serial	Driller <u>H. BAMFORD</u>	Core Bit Serial
Derrickman <u>W. JOHNSON</u>	Reaming Bit <u>and Serial</u> <u>Casing</u>	Derrickman <u>H. HUCULAC</u>	Reaming Bit Serial	Derrickman <u>H. LYM BURNER</u>	Reaming Bit Serial
Cat Headman <u>R. BRESTER</u> 15 HR	Core Cutters SF. HF. Core Catchers SF. HF.	Cat Headman <u>L. SWEEZEY</u>	Core Cutters SF. HF. Core Catchers SF. HF.	Cat Headman <u>F. DUPERRON</u> 12 hrs	Core Cutters SF. HF. Core Catchers SF. HF.
Rotary Helper <u>R. WILKINS</u>	Swab Cups Swab Rubbers	Rotary Helper <u>A. MCINTOSH</u>	Swab Cups Swab Rubbers	Rotary Helper <u>C. HUCULAC</u>	Swab Cups Swab Rubbers
Rotary Helper		Rotary Helper		Rotary Helper	
Fireman <u>L. DUPERRON</u> 15 hrs	<u>Loading Casing</u>	Fireman <u>H. BUGBY</u>		Fireman <u>D. MACKEY</u>	
Leaseman		Leaseman <u>J. GERBRANDT</u> - 16 hrs		Leaseman	

[illegible]

Company Representative

Well No. WEST TATLINA LAKE #2

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Date Dec. 27 / 59

Tool Pusher

Drilled From _____ To _____ Hole Made _____ Drilled From _____ To _____ Hole Made _____ Drilled From _____ To _____ Hole Made _____

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.	Depth	Deviation	Total Pipe on Lease	Jts.
	Deviation			Consumption	Gals.	Depth	Deviation		Depth	Deviation		
	Deviation					Depth	Deviation		Depth	Deviation		
	Deviation					Depth	Deviation		Depth	Deviation		

CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR	
Driller E. LACASSE	Core Bit	Serial	Driller D. CLARK	9 1/2	Core Bit	Serial	Driller H. BAMFORD	16 1/2	Core Bit	Serial	
Derrickman W. JOHNSON	Reaming Bit	Serial	Derrickman H. HUCOLAC	9 1/2	Reaming Bit	Serial	Derrickman A. LYMBURNER	16 1/2	Reaming Bit	Serial	
Cat Headman N. BERGSTERIZER	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman L. SWEETZ	9 1/2	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman E. DUPERRON	16 1/2	Core Cutters SF. HF.	Core Catchers SF. HF.	
Rotary Helper R. WILKINS	Swab Cups	Swab Rubbers	Rotary Helper A. MCINTOSH	9 1/2	Swab Cups	Swab Rubbers	Rotary Helper C. HUCOLAC	16 1/2	Swab Cups	Swab Rubbers	
Rotary Helper			Rotary Helper				Rotary Helper				
Fireman L. DUPERRON			Fireman H. BUGGY				Fireman D. MACKEY	16 1/2			
			Leaseman J. GERBRANDT				Leaseman				

[illegible]