BRIGGS TROUT RIVER

NO. 3

Drilling Authority No.
Date Issued

WELL NAME Briggs Trout River No. 3
FIELD Wildcat Area: Trout Lake
LOCATION: Unit Section Grid
Latitude 60°56'44" N. Longitude 123°11'55" W.
From Established Reference Marker

Rig Release Date: 3-3-60
Status D & A
Information Release Date 3-3-62

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°58'44"-
120°01'55"-

FORM "B"

#63

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

For the period from . Feb. 12/60 . .

to . Mar. 3/60 . .

REPORT of [redacted] of a Well

ABANDONMENT

Permit No. 904

Name of well . . . Briggs Trout River No. 3 . . . . . Lease No. . . . .

Registered owner . . D. Todi Briggs . . . . Drilling Company Guthrie MacLaren

Location . 60° 58' 44" . . . . . N. Lat 120°01'55". W. Long.

Survey description, if available . . . . . .

Elevation: Ground . 981 . . . . Last previous depth . . 3534 . . . . . .

Kelly bushing. . . 993 . . Present depth . . . 0 . . . . . .

Spudded . . February 12, 1960 . . . . Finished drilling Mar. 2 . Rig Released . . Mar. 3, 1960 . .

Deviations from vertical 110' - 1/2°, 190' - 1/4°, 275' - 3/4°, 358' - 1/2°, 960' - 1°, 1185' - 0°, 1642' - 4 1/2°, 1810' - 8°, 2010' - 7°, 2480' - 5 3/4°, 2950' - 6°, 3459' - 3°

CASING RECORD

	Date	Size O.D.	Weight lbs/ft	Grade	Set at feet	Sacks Cement	Top of Cement
1	Feb.14/60	8 5/8"	24.0	J-55	349	200	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 . . . . . Dry . . . . . .

Producing Zone . . . . . and formation . . . . . .
Injection

Cord intervals . . . #1 - 3459-3505 - 46' . . . . . .
3505-3534 - 29' . . . . . .

. . . . . .

. . . . . .

Interval logged: Induction E-log . 348-3410 . . . . Other logs . Sonic 348-3408 . . . .

R-log . 20-3414 . . . . . .

M-log . . . . . .

Velocity log . . . . . .

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

DRILL STEM TESTS

Test No.	Date	Interval Tested	Duration	Results
. . . . .	. . . .	. . . . .	. . . . .	. . . . .
1	Mar.2/60	3457-3534	30 mins.	580' S.W.
. . . . .	. . . .	. . . . .	. . . . .	. . . . .
Schlumberger	. . . .	. . . . .	. . . . .	. . . . .
Wire Line Test	Feb.28/60	3079	15 mins.	Nil 50 c.c. of filtrate water
. . . . .	. . . .	. . . . .	. . . . .	
. . . . .	. . . .	. . . . .	. . . . .	. . . . .
. . . . .	. . . .	. . . . .	. . . . .	. . . . .
. . . . .	. . . .	. . . . .	. . . . .	. . . . .
. . . . .	. . . .	. . . . .	. . . . .	. . . . .
. . . . .	. . . .	. . . . .	. . . . .	. . . . .
. . . . .	. . . .	. . . . .	. . . . .	. . . . .
. . . . .	. . . .	. . . . .	. . . . .	. . . . .

(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

Date	Plug set at	Sacks cement	Method	Top found at
. . . .	. . . . .	. . . . .	. . . . .	. . . . .
. . . .	3300-3534	75	Halliburton	. . . . .
. . . .	2900-3200	110	"	2880
. . . .	300-400	65	"	~~282~~ 292
. . . .	Surface	5	. . . . .	. . . . .

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

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.L. Marshall Address . . 1009 - 4th Ave. S.W.,.
For J.C. Sproule & Associates

Date . . May 12, 1960 . . . . . .

(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

~~SUSPEND DRILLING~~

(Strike out operation which does not apply)

In accordance with Sections 68 & 69 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to

.. ABANDON ..... the well named BRIDGE TROUT RIVER NO. 3 ... on Oil

and Gas Permit No. 904 .. lease No. .... Registered in the name of ..... D. TODD BRIDGE, Nominee Account .....

Depth 3,534 .feet. Elevation above sea level: Ground surface .. 981 ... ft. Kelly bushing .. 993 ... ft.

Location . 60° 58' 44" ..... N. Lat. ... 120° 01' 55" ..... W. Long.

1 1/2 miles .. (N. of S. boundary) of (Permit No. 904 .....)
1 .. mile ... (W. of E. boundary) of (Permit No. 904 .....)

Survey description, if available .....

CASING RECORD

Size O.D. inches	Weight lbs/ft	Grade	Amount feet	Set at feet	Sacks cement	Method	to be withdrawn
1 & 5/8"	24	J-55	-	352	200	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 3,534 . feet to 3,457 feet — From 3534 . feet to 3,300 . feet with 70. . . sacks cement.

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

Surface and bottom plugs:

1. from 3534 . feet to 3300 . feet with . 70 . sacks cement.
2. from 3300 . feet to 2900 . feet with . 110 . sacks cement.
3. from 400 . feet to 300 . feet with . 65 . sacks cement.

SURFACE PLUG 5 sacks cement.

Date of last operation . . . . MARCH 3, 1960. . . . . Total depth . 3534. . . . .

Nature of liquid left in well . . mud . . . . . Level from surface . surface . . .
on suspension or abandonment

The following logs ~~XXXXXXX~~ have been run . INDUCTION - electrical log, micrelog,

. . . . . ~~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 WHITING . . . . . Postal address . HAY RIVER, N.W.T. . . . . .

At registered office . A.H. LLOYD . . . Postal address 1117 First National Bank Bldg. 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 . 4th . . . . day of . MARCH . . . . . 19 60.

Signed by . . . . . .

S.R.L. HARDING, P. Eng.
J. C. SPROULE & ASSOCIATES

This program is approved subject to the following provisions

confirming oral approval from Bill Ward

15th March 1960
Date

Bill Thomas
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 DIVISION

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

~~OR~~

~~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. 904 registered in the name of

~~Lease No.~~

D. Todd Briggs Nominee Account

TYPE OF WELL:

Wildcat . . . . .

~~Development~~ . . . . .

Expected total depth 3,500 feet, in the Watt Mountain

formation of Devonian age.

The well will be located at 60°. 58'. 44". N. Lat 120°. 01'. 55"W. Long.

	(N. of S. boundary)		(Permit No. 904)
1 1/2 miles	(S. of N. boundary)	of	(Lease No. ~~.....~~)
1 mile	(W. of E. boundary)	of	(Permit No. 904)
	(E. of W. boundary)		(Lease No. ~~.....~~)

Survey description of Location, if known . . . . . .

. . . . . .

Approximate surface elevation of 1050 feet above sea level.

Name of well Briggs Trout River No. 3

Type of drilling rig Rotary

Expected date of commencement February 9, 1960

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	J-55	Manesmann	New	225	175
2.							
3.							

.. 2

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

. .3,200. controlled by mud program and blowout prevention equipment .

. . . . . .

. . . . . .

. . . . . .

An electric log will ~~will not~~ be run Other logs will ~~will not~~ be run

STRUCTURE TEST PROGRAM

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

. . . . . .N. Latitudes

. . . . . .W. Longitudes

An electric log will / will not be run Other logs will / will not be run

Name and address of drilling contractor . Guthrie McLaren Drilling Limited .

. 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 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 . 2nd . . . . . day of February . . . 19 60: . . .

Signed by S. F. L. Harding
S. F. L. Harding
SPROULE ASSOCIATES

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

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

5th February, 1960 . . . . . B. H. Thomas . . .
Date 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 TROUT RIVER NO. 3

NORTHWEST TERRITORIES

J. G. SPROULE & ASSOCIATES
GEOLOGICAL & EXPLORATION CONSULTANTS

1009 FOURTH AVENUE WEST
CALGARY ALBERTA

TELEPHONE
AMHERST 9-7951

TABLE OF CONTENTS

SUMMARY OF PERTINENT WELL DATA

Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 59" W. Long.

Elevation: Ground 981'
K. B. 993'

Total Depth: 3,534'

Operator: A. M. Lloyd

Technical Supervision: J. C. Sproule & Associates
D. J. B. Marshall, Engineer

Drilling Contractor: Guthrie McLaren Drilling Ltd.

Spudded: February 12, 1960

Completed: March 3, 1960

Status: Abandoned

Drilling Data:

Hole Size Inches	From Feet	To Feet
12 1/4	Surface	352
7 7/8	352	3505
6 1/8	3505	3534

Deviation Surveys

110'	1/2°	1810'	8°	2710'	5°
190'	1/4°	1870'	7 1/2°	2860'	6°
275'	3/4°	1930'	7 1/2°	2950'	6°
358'	1/2°	2010'	7°	3080'	5°
770'	3/4°	2140'	7°	3249'	4°
960'	1°	2220'	6 3/4°	3459'	3°
1185'	0°	2320'	6 1/2°		
1642'	4 1/2°	2480'	5 3/4°		

Surface Casing: 11 joints, 334.71' x 8 5/8" new Mannesman 24.0 lb. casing cemented at 349' K.B. with 200 sacks plus 2% $CaCl_2$ by Halliburton February 14, 1960.

Core Summary:

Core No.	Interval Feet	Recovered Feet
1	3459-3505	46.0
2	3505-3534	29.0

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1	3459-3505	46.0
2	3505-3534	29.0

Summary of Drill Stem Tests:

Schlumberger Formation Test No. 1
Depth 3,079'
V. O. 15 minutes, 30 seconds. Recovered 50 cc. muddy water. Shut in pressure 1,490 psi.

DST No. 1 3457-3534' V.O. 30 mins. Shut in 60 mins. Good air blow. Recovered 580' muddy sulphurous salt water.

Logs:

Schlumberger	Induction Electrical log	348-3410'
	Gamma Ray-Neutron Log	20'-3414'
	Sonic Log	348'-3408'

Abandonment Program:

Plug No. 1	3300'-3534'	75 sacks
Plug No. 2	2900'-3200'	110 sacks plus 2% $CaCl_2$
Plug No. 3	300'-400'	65 sacks plus 2% $CaCl_2$
Plug No. 4	5 sacks at surface with steel plate welded on top.	

GEOLOGICAL MARKERS

Well Name: Briggs Trout River No. 3

Location: 60° 58' 47" N. Lat.
120° 01' 55" W. Long.

Age	Formation	Depth Feet	Elevation Feet
UPPER DEVONIAN	Wabasca	240	+753
	Trout River	590	+403
	Grumbler	755	+238
	Island River	1200	-207
	Simpson	1220	-227
MIDDLE DEVONIAN	Muskeg-Keg River	2998	-2005

DAILY CHRONOLOGICAL WELL REPORT

Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 55" W. Long.

Operation ending 12 midnight.

Date	Total Depth Feet	Progress Feet	Days	Remarks
February 12	162	162	1	Rigged up and dug rat hole. Spudded at 4:00 p.m. Drilling 9 7/8" hole, worked mud ring, lost circulation, mixing mud.
February 13	308	146	2	Ran in 12 1/4" bit, reamed and drilled to 308', lost circulation, mixing mud.
February 14	358	50	3	Drilled pilot hole to 358'. Reamed to 352'. Ran 11 joints 334.71' x 8 5/8" x 24.0 lb., J-55 surface casing set at 349' K.B. Cemented with 200 sacks plus 2% $CaCl_2$. Plug down 8:00 p.m. W.O.C.
February 15	358	0	4	W.O.C.
February 16	671	313	5	Tested B.O.P. Found top of cement plug at 280'. Drilled out. Drilling with Bit No. 1.
February 17	1087	416	6	Drilled to 771'. Ran in Bit No. 2. Drilling.
February 18	1642	555	7	Drilled to 1185' with Bit No. 2. Drilled to 1642' with Bit No. 3. Hoisting pipe.
February 19	1934	292	8	Found deviation 4 1/2°. Ran in Bit No. 4 eased off on weight. Deviation went to maximum of 8° at 1810'. Drilling.
February 20	2156	222	9	Drilled to 2017' with Bit No. 4. Tripped for Bit No. 5. Drilling.
February 21	2510	354	10	Drilled to 2480' with Bit No. 5. Tripped for Bit No. 6. Deviation 5 3/4° at 2480'. Drilling.
February 22	2842	332	11	Deviation 2710' - 5°. Drilling with Bit No. 6.
February 23	3029	177	12	Drilled to 2870' with Bit No. 6. Ran in Bit No. 7. Drilling.

Date	Total Depth Feet	Progress Feet	Days	Remarks
February 24	3165	136	13	Drilled to 3082' with Bit No. 7. Ran in Bit No. 8. Drilling.
February 25	3294	129	14	Drilled to 3249' with Bit No. 8. Deviation at 3249' - 4°. Ran in with Bit No. 9. Drilling.
February 26	3373	79	15	Drilled to 3306' with Bit No. 9. Ran in Bit No. 10 and drilled to 3364'. Ran in Bit No. 11. Drilling.
February 27	3415	42	16	Drilled to 3415' with Bit No. 11. Measured pipe, no correction. Rigged up Schlumberger. Logging.
February 28	3459	44	17	Ran Gamma-Neutron, Sonic and Induction-Electrical log. Ran Wire Line test No. 1 at 3079'. Ran in Bit No. 12 and drilled to 3459'. Hoisting pipe.
February 29	3505	46	18	Ran in magnet, pulled out and ran in core barrel to cut Core No. 1 46' 3459'-3505'. Hoisting core.
March 1	3531	26	19	Recovered Core No. 1. Reamed to 3505' and ran in to cut Core No. 2. Coring.
March 2	3534	3	20	Recovered Core No. 2 29' 3505'-3534'. Ran DST No. 1 3457'-3534'. Pulled test and ran Plug No. 1 3300' to total depth. 75 sacks. Plug down 3:15 p.m. Ran Plug No. 2 3200'-2900' 110 sacks plus 2% $CaCl_2$. Plug down at 4:15 p.m. Felt top of Plug No. 2 at 2,880' at 12:00 midnight.
March 3			21	Ran Plug No. 3 300'-400', 65 sacks plus 2% $CaCl_2$ down at 4:00 a.m. Felt top at 292'. Rig released at 4:00 p.m.

BIT RECORD

Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 55" W. Long.

No.	Size Inches	Make	Type	Serial	Depth From	Depth To	Feet	Hours
1A	9 7/8	HTC	OSC	Rerun	0	220	220	8 1/4
2A	12 1/4	HTC	OSC-3	Rerun	0	352	352	12 1/4
3A	7 7/8	Reed	YSI	094140	275	358	83	6 1/4
1	7 7/8	HTC	OSC	94469	358	771	413	19 3/4
2	7 7/8	HTC	OSC	94463	771	1185	414	22
3	7 7/8	HTC	OSC-3	95302	1185	1642	457	16
4	7 7/8	HTC	OSC-3	95263	1642	2017	375	29 3/4
5	7 7/8	HTC	OSC-3	80514	2017	2480	463	30 1/2
6	7 7/8	HTC	OSC-1G	86751	2480	2870	390	27 1/2
7	7 7/8	HTC	OSC	7251	2870	3082	212	26 1/2
8	7 7/8	HTC	OSC	9444.6	3082	3249	167	24
9	7 7/8	HTC	OSC	59027	3249	3306	57	8 1/2
10	7 7/8	HTC	OWC	6480	3306	3364	58	14
11	7 7/8	HTC	OWC	3916	3364	3415	51	9 3/4
12	7 7/8	HTC	OWC	3892	3415	3459	44	10

MUD RECORD

Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 55" W. Long.

Date	Depth From Feet	Depth To Feet	Average Weight	Average Water Loss c.c.	Average Viscosity	p.H.	Additives Lbs.
February 12	0	162	-	-	-	-	4000 Gel
February 13	162	[illegible]	-	-	-	-	5300 Gel
February 14	308	358	-	-	-	-	5000 Gel
February 15	358	358	-	-	-	-	400 Bicarbonate
February 16	358	671	-	-	50	13.0	3600 Gel 100 Bicarbonate 200 Caustic 200 Spersene
February 17	671	1087	10.0	3.8	75	13.0	200 Spersene 800 Gel 350 Caustic 1000 Starch
February 18	1087	1642	10.2	3.4	85	12.5	100 Spersene 50 Caustic 800 Gel
February 19	1642	1934	10.7	2.8	95	12.5	1600 Gel 750 Spersene 650 Caustic 400 Starch
February 20	1934	2156	10.9	3.0	105	12.5	400 Spersene 500 Gel 100 Starch 150 Caustic
February 21	2156	2510	10.3	2.5	75	13.0	300 Caustic 300 Starch 50 Spersene

MUD RECORD

Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 55" W. Long.

Date	Depth From Feet	Depth To Feet	Average Weight	Average Water Loss c.c.	Average Viscosity	p.H.	Additives Lbs.
February 12	0	162	-	-	-	-	4000 Gel
February 13	162	308	-	-	-	-	5300 Gel
February 14	308	358	-	-	-	-	5000 Gel
February 15	358	358	-	-	-	-	400 Bicarbonate
February 16	358	671	-	-	50	13.0	3600 Gel 100 Bicarbonate 200 Caustic 200 Spersene
February 17	671	1087	10.0	3.8	75	13.0	200 Spersene 800 Gel 350 Caustic 1000 Starch
February 18	1087	1642	10.2	3.4	85	12.5	100 Spersene 50 Caustic 800 Gel
February 19	1642	1934	10.7	2.8	95	12.5	1600 Gel 750 Spersene 650 Caustic 400 Starch
February 20	1934	2156	10.9	3.0	105	12.5	400 Spersene 500 Gel 100 Starch 150 Caustic
February 21	2156	2510	10.3	2.5	75	13.0	300 Caustic 300 Starch 50 Spersene

Date	Depth From Feet	Depth To Feet	Average Weight	Average Water Loss c.c.	Average Viscosity	p.H.	Additives
February 22	2510	2842	10.8	3.0	85	13.0	200 Caustic 300 Spersene 350 Starch 700 Gel
February 23	2842	3029	10.7	3.2	90	13.0	100 Caustic 100 Spersene
February 24	3029	3165	10.7	2.5	85	13.0	400 Caustic 200 Spersene 600 Gel 500 Starch
February 25	3165	3294	10.5	3.6	70	13.0	1500 Gel 100 Spersene 200 Caustic
February 26	3294	3373	10.7	3.4	75	13.0	500 Gel 100 Spersene 100 Caustic 100 Starch
February 27	3373	3415	11.0	3.2	85	13.0	3300 Gel 100 Starch
February 28	3415	3459	10.9	4.0	85	12.8	150 Spersene 100 Caustic
February 29	3459	3505	10.7	5.5	94	12.6	200 Caustic 100 Spersene
March 1	3505	3531	10.6	5.3	130	12.5	400 Gel 200 Caustic 200 Starch
March 2	3531	3534	10.7	-	200	-	

SURFACE CASING TALLY

Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 55" W. Long.

11 Joints 8 5/8" x 24.0 lb. J-55 new Mannesman casing.

No.	Feet
1	29.65
2	27.76
3	30.60
4	31.67
5	33.03
6	30.56
7	32.06
8	29.27
9	26.55
10	29.20
11	32.46
	1.90 Float Shoe
	334.71

Total depth of hole 358'
Size of hole 12 1/4"
Depth Casing set 349' K. B.
Cemented with 200 sacks plus 2% $CaCl_2$ by Halliburton.

TIME DRILLING RECORD

Well Number: Bright Irrigation Well No. 3

Location: 60° 56' 00" N. Lat.
120° 01' 05" W. Long.

Depth Feet	Time in Minutes									
2990–3000	7,	7,	5,	6,	5,	5,	4,	5,	11,	11
3000–3010	10,	9,	10,	10,	11,	10,	10,	11,	10,	9
3010–3020	10,	8,	9,	10,	9,	10,	9,	10,	9,	10
3020–3030	9,	9,	11,	9,	10,	9,	9,	9,	8,	8
3030–3040	10,	9,	9,	9,	8,	9,	8,	8,	8,	9
3040–3050	9,	8,	9,	9,	8,	9,	8,	7,	10,	11
3050–3060	10,	10,	10,	9,	9,	10,	11,	10,	10,	10
3060–3070	12,	11,	10,	10,	10,	11,	11,	10,	10,	10
3070–3080	11,	10,	12,	9,	14,	12,	12,	11,	9,	12
3080–3090	11,	12,	11,	11,	11,	10,	9,	9,	8,	10
3090–3100	8,	9,	9,	10,	10,	10,	10,	11,	10,	10
3100–3110	10,	10,	12,	8,	7,	8,	7,	7,	7,	7
3110–3120	8,	7,	7,	7,	6,	6,	7,	7,	7,	7
3120–3130	6,	7,	7,	7,	7,	7,	7,	7,	7,	7
3130–3140	7,	7,	8,	7,	7,	8,	7,	7,	7,	7
3140–3150	6,	6,	6,	7,	8,	8,	8,	8,	7,	8
3150–3160	8,	8,	8,	8,	8,	12,	8,	8,	7,	8
3160–3170	8,	7,	7,	7,	7,	7,	8,	7,	7,	8
3170–3180	6,	6,	8,	7,	7,	7,	8,	8,	9,	8
3180–3190	9,	9,	9,	9,	9,	9,	8,	8,	9,	8
3190–3200	8,	9,	9,	9,	9,	9,	9,	9,	9,	8
3200–3210	8,	8,	9,	8,	8,	7,	8,	6,	9,	7
3210–3220	8,	8,	8,	8,	7,	9,	8,	10,	8,	8
3220–3230	8,	8,	8,	8,	8,	7,	8,	9,	10,	10
3230–3240	10,	11,	10,	9,	9,	10,	9,	11,	9,	11
3240–3250	10,	11,	11,	10,	11,	11,	11,	11,	11,	5
3250–3260	4,	5,	5,	4,	5,	5,	5,	5,	5,	5
3260–3270	4,	4,	4,	6,	6,	6,	7,	8,	8,	7
3270–3280	8,	7,	8,	8,	8,	8,	8,	8,	8,	8
3280–3290	8,	8,	7,	8,	7,	7,	7,	6,	7,	8
3290–3300	9,	11,	12,	15,	12,	12,	13,	11,	11,	15
3300–3310	13,	13,	14,	14,	14,	13,	10,	9,	11,	8
3310–3320	12,	12,	11,	11,	10,	12,	8,	12,	12,	16
3320–3330	15,	16,	14,	18,	15,	17,	14,	15,	15,	15
3330–3340	14,	16,	14,	15,	15,	14,	14,	14,	14,	14
3340–3350	14,	14,	15,	13,	19,	18,	13,	16,	15,	15
3350–3360	16,	15,	16,	13,	14,	14,	17,	14,	13,	15
3360–3370	16,	11,	11,	6,	12,	8,	9,	9,	8,	9
3370–3380	9,	9,	10,	10,	11,	10,	10,	10,	11,	11

Depth Feet	Time In Minutes
3360-3390	11, 11, 9, 10, 7, 10, 10, 11, 10, 10
3390-3400	8, 12, 10, 11, 11, 11, 10, 12, 11, 10
3400-3410	11, 11, 12, 10, 11, 12, 13, 12, 13, 15
3410-3420	15, 15, 13, 14, 14, 20, 20, 17, 13, 14
3420-3430	14, 10, 10, 13, 13, 11, 12, 10, 11, 11
3430-3440	12, 10, 10, 11, 11, 11, 12, 13, 10, 10
3440-3450	12, 13, 15, 10, 12, 17, 11, 10, 7, 13
3450-3459	11, 11, 9, 11, 14, 15, 13, 15, 10.

See Time Coring Record

TIME CORING RECORD

Well Name: Briggs Trout River No. 3

Location: 60° 58' 42." N. Lat.
120° 01' 55" W. Long.

Core	Depth Feet	Time In Minutes
No.1		
	3459-3460	29
	3461-3470	15, 12, [illegible], 17, 17, 19, 15, 11, 14, 13
	3471-3480	17, 16, 15, 20, 14, 18, 21, 15, 16, 19
	3481-3490	10, 11, 16, 16, 20, 13, 16, 16, 18, 16
	3491-3500	15, 16, 20, 14, 17, 19, 18, 16, 18, 19
	3501-3505	20, 18, 21, 20, 14
Core		
No.2		
	3506-3510	16, 20, 20, 20, 19
	3511-3520	22, 18, 15, 12, 15, 11, 11, 13, 15, 14
	3521-3530	16, 12, 19, 22, 23, 22, 21, 21, 27, 23
	3531-3534	50, 48, 62, 40.

SAMPLE DESCRIPTION

Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 55" W. Long.

Depth Feet	Description
Surface-50	Glacial drift, pebbles of gravel, igneous rocks and limestone.
50-170	No samples, working mud ring.
170-190	Shale - medium to light grey, slightly calcareous; also shale, black, fissile.
190-240	No samples, working mud ring.
	WABAMUN GROUP - 240'
240-270	Limestone - light grey, dense, very argillaceous.
270-350	Limestone - greyish white to buff, dense, fossiliferous, mottled in part.
350-390	Limestone - light grey, dense, argillaceous; with siltstone, brownish grey, calcareous.
390-400	Siltstone - medium brown, calcareous.
400-410	Limestone - buff, dense.
410-520	Limestone - light grey and buff, dense, argillaceous in part; minor shale partings, medium grey; and siltstone, light grey with black specks.
520-540	Siltstone - light grey with black specks, soft, slightly calcareous.
540-590	Limestone - buff, dense to microcrystalline, argillaceous in part.
	TROUT RIVER FORMATION - 590'
590-610	Siltstone - light grey, speckled; and siltstone, medium brown, calcareous.
610-620	Limestone - buff, dense to microcrystalline; with siltstone, light grey, calcareous.
620-640	Limestone - buff to light grey, dense, argillaceous in part.

Depth Feet	Description
640–680	Interbedded limestone - as above; and siltstone, light grey, calcareous.
680–700	Shale - greyish brown, calcareous and siltstone, light grey, calcareous.
700–740	Siltstone - light grey, limy, speckled; and limestone, buff, dense, silty.
740–760	Siltstone - as above, and sandstone, light grey, very fine-grained, calcareous, tight; also limestone, buff, dense.
	GRUMBLER FORMATION - 755'
760–820	Limestone - buff to cream, dense.
820–830	Siltstone - grey, green, calcareous; trace of shale, green, calcareous.
830–840	Limestone - buff, dense.
840–860	Siltstone - light grey, calcareous.
860–880	Interbedded siltstone and limestone - as above.
880–900	Siltstone - light grey and greenish grey, calcareous.
900–960	Limestone - light grey, dense, silty; siltstone partings, calcareous.
960–970	Siltstone - medium to light grey, calcareous.
970–980	Limestone - buff, dense, mottled in part, very hard.
980–1010	Siltstone - greenish grey, calcareous; trace of shale, greenish grey, calcareous; also trace of sandstone, greenish grey, very fine-grained, calcareous.
1010–1050	Shale - light green and brown, calcareous; with siltstone, as above.
1050–1090	Shale - grey and green, calcareous, minor limestone, buff, dense.
1090–1130	Siltstone - light grey, calcareous; and shale, medium grey, calcareous.

Depth Feet	Description
1130-1150	Shale - greenish grey, calcareous; with siltstone, as above.
1150-1160	Siltstone - brown to grey, calcareous.
1160-1200	Interbedded shale - greenish grey, calcareous; and siltstone, light grey, calcareous.
	ISLAND RIVER LIMESTONE - 1,200'
1200-1220	Limestone - medium brownish grey, mottled in part, dense and fragmental, argillaceous, fossiliferous; also siltstone, greenish grey, fossiliferous.
	SIMPSON FORMATION - 1,220'
1220-1300	Shale - green, brown and medium grey, non-calcareous.
1300-1310	Shale - as above, with siltstone, greenish grey, calcareous.
1310-1420	Interbedded shale - chocolate brown and green, very slightly calcareous; with traces of siltstone, light grey, calcareous.
1420-1460	Shale - green, slightly calcareous.
1460-1480	Siltstone - light green, calcareous.
1480-1500	Shale - green and medium grey; with siltstone, light brown, calcareous.
1500-1530	Shale - brown and green, slightly calcareous; with siltstone, greenish grey, calcareous.
1530-1540	Limestone - buff, dense; with siltstone as above.
1540-1590	Interbedded shales - brown, green and grey; with siltstone, greenish grey, calcareous.
1590-1600	Shale - brown, fissile, slightly calcareous.
1600-1620	Limestone - buff, dense, argillaceous in part.
1620-1630	Siltstone - green, calcareous; with shale partings, brown and grey.
1630-1650	Limestone - buff, dense to microcrystalline, argillaceous in part, grading to siltstone, green, calcareous.
1650-1750	Interbedded shale - brown and green; and siltstone, greenish grey, calcareous; traces of limestone, buff, dense.

Depth Feet	Description
1750-1760	Siltstone - greenish grey, calcareous; with shale partings, green.
1760-1770	Shale - brown and green, slightly calcareous.
1770-1780	Limestone - buff, dense, argillaceous in part.
1780-1800	Interbedded shales - medium brown, green and grey, slightly calcareous.
1800-1840	Limestone - buff, dense in part, argillaceous; with shale partings, green and brown.
1840-1890	Shale - green and brown, slightly calcareous; with siltstone, light grey-green, calcareous.
1890-1900	Limestone - buff, dense.
1900-2020	Interbedded shale - green and brown, slightly calcareous; and siltstone, light greyish green, calcareous.
2020-2040	Shale - green, slightly calcareous; with siltstone, green, calcareous.
2040-2050	Limestone - buff, dense.
2050-2120	Shale - greyish green, very slightly calcareous.
2120-2130	Limestone - buff, dense.
2130-2510	Shale - greyish green, very slightly calcareous; minor siltstone, green, calcareous.
2510-2520	Limestone - buff, dense.
2520-2610	Shale - greyish green, very slightly calcareous; minor shale, brown; and siltstone, green.
2610-2630	Limestone - buff, dense, slightly argillaceous.
2630-2660	Shale - greyish green, very slightly calcareous; with shale, brown; and siltstone, green.
2 60-2670	Limestone - buff, dense.
2670-2930	Shale - greyish green, very slightly calcareous; minor shale, brown; and siltstone, green.
2930-2998	Shale - dark brown to black, bituminous.

USKEG-KEG RIVER FORMATION - 2,998'

Depth Feet	Description
2998-3020	Limestone - cream to buff, dense, chalky in part.
3020-3025	Limestone - brown, dense.
3025-3080	Limestone - cream to buff, dense, chalky in part.
3080-3085	Limestone - medium brown, dense to microcrystalline.
3085-3095	Limestone - cream to buff, dense.
3095-3100	Limestone - light grey to brown, dense, slightly argillaceous in part.
3100-3105	Limestone - medium brown, mottled, dense.
3105-3140	Limestone - cream to buff, dense, powdery.
3140-3160	Limestone - medium brown, dense to microcrystalline, mottled in part.
3160-3180	Limestone - light brown and buff, dense to microcrystalline, in part argillaceous.
3180-3200	Limestone - medium brown, mottled, dense to microcrystalline.
3200-3210	Limestone - as above, with limestone, light grey, dense, powdered in part.
3210-3225	Limestone - light grey and buff, dense, very slightly argillaceous.
3225-3240	Limestone - light greyish brown, dense, argillaceous and limestone, medium brown, dense.
3240-3275	Limestone - medium brown mottled, and light grey powdered, dense, slightly argillaceous.
3275-3330	Limestone - medium brown, dense and fragmental, argillaceous in part, and in part bituminous, very hard.
3330-3335	Limestone - as above with limestone, buff, dense, argillaceous.
3335-3365	Limestone - dark brown mottled, dense, bituminous; and limestone, buff, dense, argillaceous, some slickensides.
3365-3385	Limestone - buff to brown, dense, argillaceous, some bituminous material and traces of fossil fragments.

Depth Feet	Description
3385-3410	Limestone - in part dolomitic limestone, medium brown to buff, microcrystalline, bituminous, very hard in part, slightly argillaceous.
3410-3430	Limestone - medium to dark brown, mottled, dense, bituminous, argillaceous.
3430-3445	Limestone - medium to dark brown, microcrystalline, silty in part, bituminous in part, traces of poor intercrystalline porosity.
3445-3459	Dolomitic limestone - light brown, dense, argillaceous, minor calcite inclusions, white.
3459-3534	See Core Description.

CORE DESCRIPTION

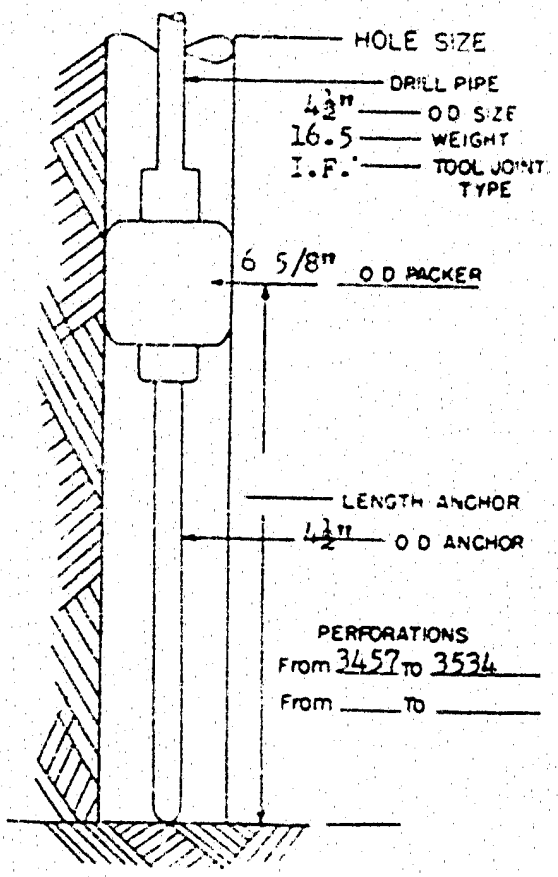
Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 55" W. Long.

Footage	Description
	Core No. 1 3,459'-3,505' Recovered 45.6'
9.5	Dolomitic limestone - dark brown to black, microcrystalline; and dolomite, dark brown, minor calcite crystals, white, also some stylolites.
5.3	Dolomite - dark grey, finely crystalline to microcrystalline, scattered good intercrystalline porosity, also small vugs, minor white calcite crystals.
9.3	Dolomite - medium brown, microcrystalline, very tight, banded with grey and black wavy stripes, minor stylolites.
0.5	Dolomitic limestone - light brown, dense, appears brecciated or reworked, very tight and hard.
21.0	Dolomite - dark brown, banded, microcrystalline, stylolitic, very tight.
	Core No. 2 3,505'-3,534' Recovered 29.0'
13.8	Dolomite - medium brown to dark brown, dense, irregular stylolitic partings.
2.5	Dolomite - dark grey, banded, microcrystalline, very hard.
12.7	Dolomite - dark grey to black, dense to microcrystalline, stylolitic, siliceous, very hard and tight.

DRILL STEM TEST REPORT

Well Name Briggs Trout River Well No. 3 TEST No. 1 Run No. 1
Field Wildcat District N.W.T.
Province N.W.T.
Testing Company Lynes United Services Ltd. Operator C. Hank
Date Commenced March 2, 1960 Date Completed March 2, 1960



Formation Tested Pine Point Dolomite
Section Tested. From 3457 To 3534 ft.
Mud Properties: Wt. 10.7 Vis. 200 sec.
Filtrate 5.3 c.c. Filter Cake Gel
Water Cushion 0 ft.
Type of Packer Bob-tail
Choke Size, surface 1/2" Bottom Hole 1/2"

	Time	Remarks
Tester started in hole	6:00 a.m.	
Tester on bottom	8:30 a.m.	
Tester opened	8:30 a.m.	
Tester closed	9:30 a.m.	
Tester pulled loose	10:30 a.m.	
Tester out of hole	11:30 a.m.	
Total time tester open	30 mins.	

Weight:
Set on Packer 25,000 lbs. Pull Packer Loose 10,000 lbs.
Weight drill pipe Before Test 42,000 After Test 48,000
Mud level in casing Full
Nature of Blow Good air blow
Maximum Surface Pressure 0
Maximum Trap Pressure 0

Gas Flow: 0 MCF/day: How Gauged ____ By ____
Oil Flow 0 bbls. in ____ hrs: Est. 24-hr. Flow Rate ____ How Gauged ____
Size flow line ____ Inch. I.D. Size Orfice ____ inch.

Recovery in Drill Pipe:

					Remarks
Free oil	stands		feet	bbls.	
Mud	stands		feet	bbls.	
Water	stands	580	feet	bbls.	Muddy sulphurous salt water.

Gravity of oil ____° API @ ____ °F.
Oil sample obtained ____ Water sample obtained Yes

Pressures:

Type of pressure bomb (s) used Kuster - AK1
Maximum Flowing Pressure 301 PSI
30,60 Minute Shut in Pressure 1538, 1532 PSI
Static Mud Pressure after unseating packer 1958 PSI
Mechanically, was Test satisfactory? Yes

REMARKS:
Good initial puff, good air blow, steady throughout test.

Engineer: D. J. B. Marshall

J. C. SPROULE & ASSOCIATES, CALGARY.

GEOLOGICAL AND ENGINEERING SUMMARY

Well Name: Briggs Trout River No. 3

Location: 60° 58' 44" N. Lat.
120° 01' 55" W. Long.

Briggs Trout River No. 3 was drilled 9.5 miles east-northeast of Briggs Trout River No. 2, in the northeast corner of Oil and Gas Permit No. 904, registered in the name of D. Todd Briggs.

The well was drilled on the basis of seismic work done in the winter of 1959-60.

When a depth of 3,425 feet had been reached the well was logged. Drilling was continued to 3,459 feet and then the well was cored to a total depth of 3,534 feet.

Stratigraphically the well was very similar to Briggs Trout River No. 2. The Middle Devonian limestone, found at 2,998 feet, was structurally 128 feet higher than in the No. 2 well.

About 5 feet of porous dolomite was found in the core and, on test from 3,457 to 3,534 feet for 30 minutes, gave up 580 feet of salt water.

During drilling of the well the hole deviated to a maximum of eight degrees at 1,810 feet but returned to about three degrees at 3,400 feet. This crooked hole problem slowed operations considerably, and as a consequence cuttings samples were of poor quality.

D. B. Marshall

D. B. Marshall

S. R. L. Harding

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

1009 Fourth Avenue S. W.,
Calgary, Alberta.
April 29, 1960.

CCL-6

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton – Fort St. John – Calgary

WATER ANALYSIS REPORT

Field ..... Well No. Briggs Trout River #3

Operator J. C. Sproules & Associates Date Received April 6, 1960

Formation ..... Depths 3457' - 3534'

Other pertinent data D.S.T. #1. Recovered 580 feet.

Location: 60° 50' 44" N. Latitude; 120° 1' 55" W. Longitude.

Date April 26, 1960 Lab. No. C 2832

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na & K	Ca	Mg	Fe	SO_4	Cl	CO_3	HCO_3	OH	H_2S
35,646	10,785	2,042		701	79,000		870		Present

MILLIGRAM EQUIVALENTS

1550.63	538.17	167.85		14.58	2227.80		14.27		

MILLIGRAM EQUIVALENTS IN PERCENT

34.36	11.92	3.72		0.32	49.36		0.32		

Total Solids in Parts per Million

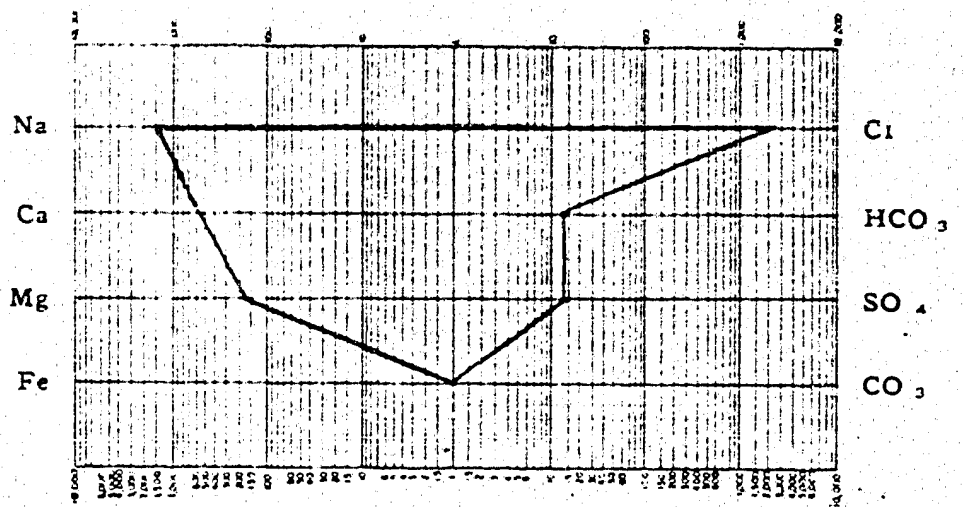
By evaporation	152,800
After ignition	125,220
Calculated	128,603
Specific Gravity	1.090
Observed pH	6.5
Resistivity 0.086	ohm meters @ 68° F.

Properties of Reaction in Percent

Primary salinity	68.72
Secondary salinity	30.64
Primary alkalinity	---
Secondary alkalinity	0.64
Chloride salinity	99.36
Sulfate salinity	0.64

Remarks and conclusions Organic matter present in total solids.

LOGARITHMIC PATTERN
MEQ per unit



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Secondary salinity	30.64
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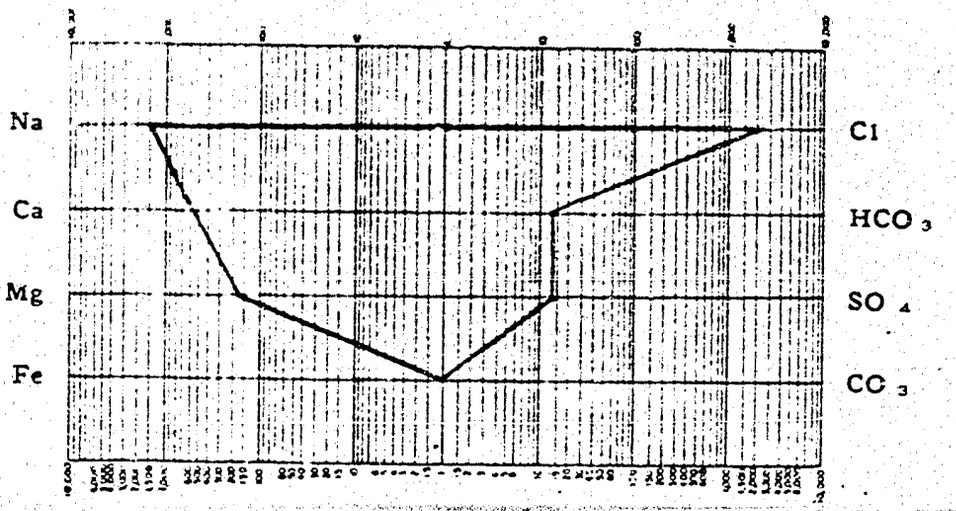
Secondary alkalinity	0.64
Chloride salinity	99.36
Sulfate salinity	0.64

Remarks and conclusions Organic matter present in total solids.

LOGARITHMIC PATTERN
MEQ per unit



D. Todd Briggs - Nominee	Briggs Trout River No. 3	1	March 2, 1960
COMPANY	WELL NAME AND NUMBER	TEST NO.	DATE

LYNES UNITED SERVICES LTD.

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

SERVICE REPORT

UNITED TESTERS LTD.

1000 - 10th Ave. West UTL Calgary, Alberta

Phone CHerry 4-0506

TYPE OF TEST Formation.

INTERVAL TESTED 3457' to 3534'

HOLE SIZE 7 7/8" MUD WT. 10.7

FLUID CUSHION Nil

FLOW PERIOD 30 minutes

INITIAL SHUT-IN PER 30 minutes

FINAL SHUT-IN PER 60 minutes

BLOW Good initial puff, good air blow, steady thru-out test.

FLUID RECOVERY 580' muddy sulphurous salt water.

TEMP. M.C.F.

SUR. CHOKE BOT. CHOKE 1/2"

TICKET NO. 782

PRESSURE READINGS

Inside:
REC. NO. 909 CAP. 4000 DEPTH 3462'

		POINTS
INITIAL HYD.	1972	1
INITIAL SHUT-IN	1538	2
INITIAL FLOW	132	3
FINAL FLOW	301	4
FINAL SHUT-IN	1532	5
FINAL HYD.	1958	6

PRESSURE READINGS

Outside:
REC. NO. 906 CAP. 5000 DEPTH 3467'

		POINTS
INITIAL HYD.	1980	1
INITIAL SHUT-IN	1540	2
INITIAL FLOW	130	3
FINAL FLOW	305	4
FINAL SHUT-IN	1535	5
FINAL HYD.	1965	6

REMARKS

D. Todd Briggs - Nominee,

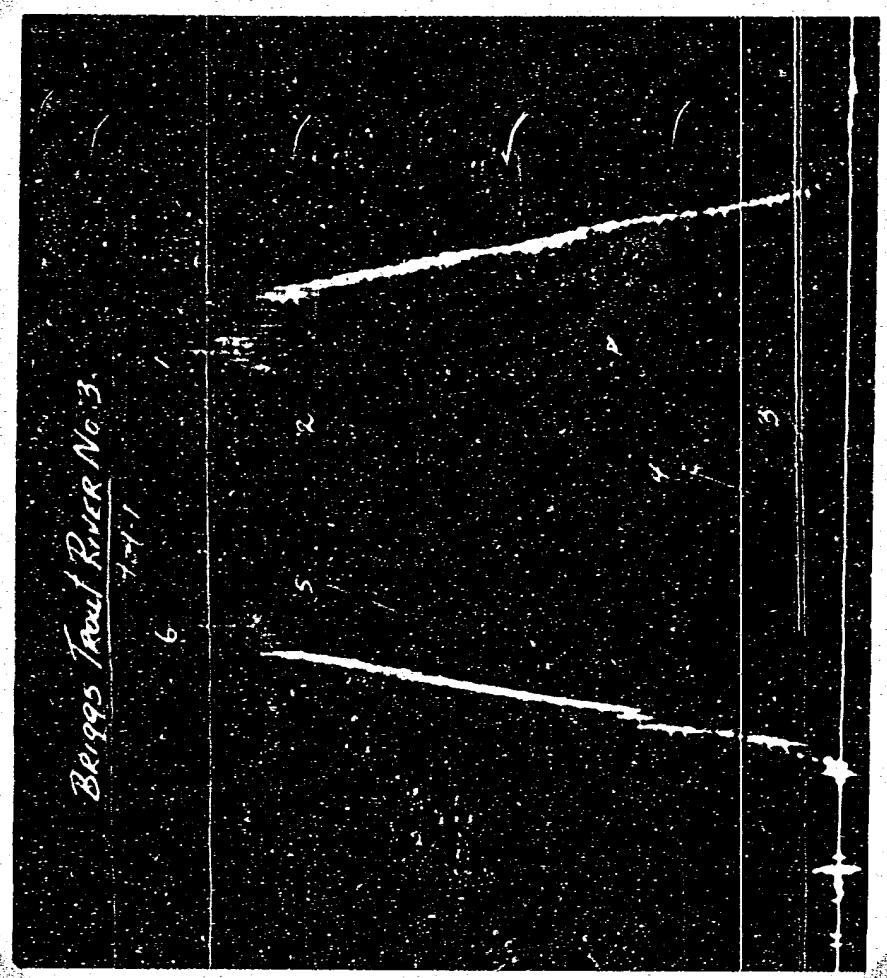
Briggs Trout River No. 3

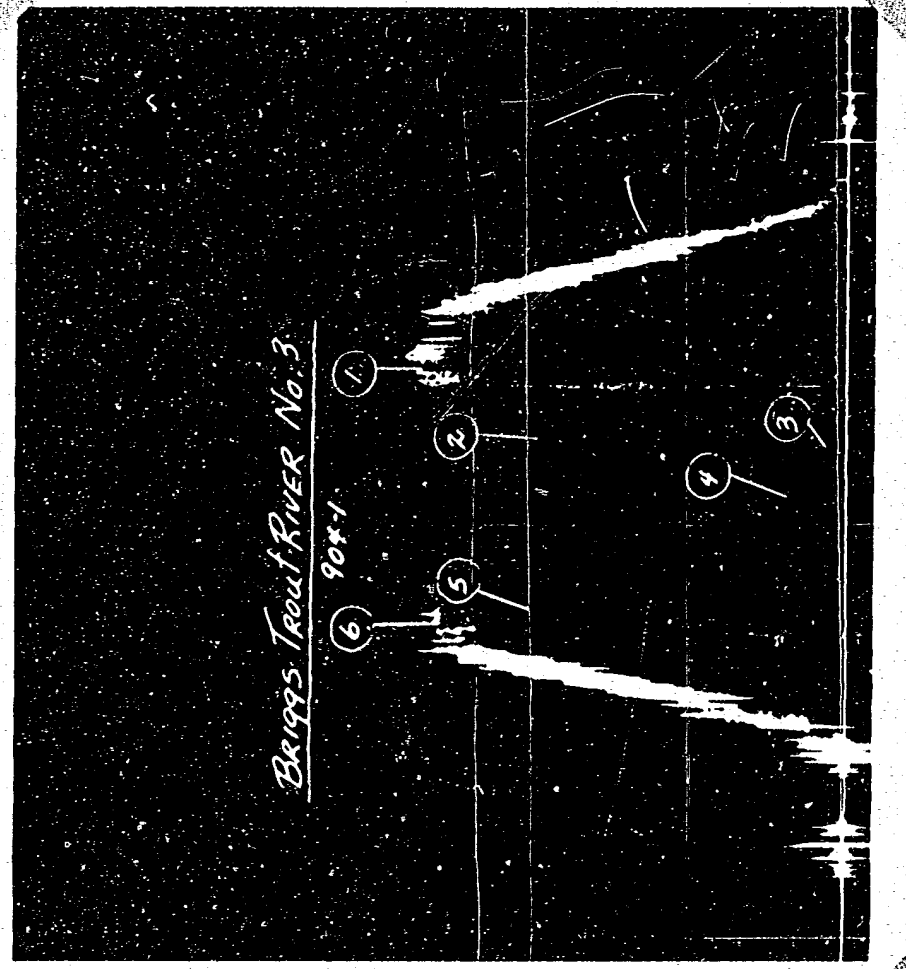
D.S.T. No. 1

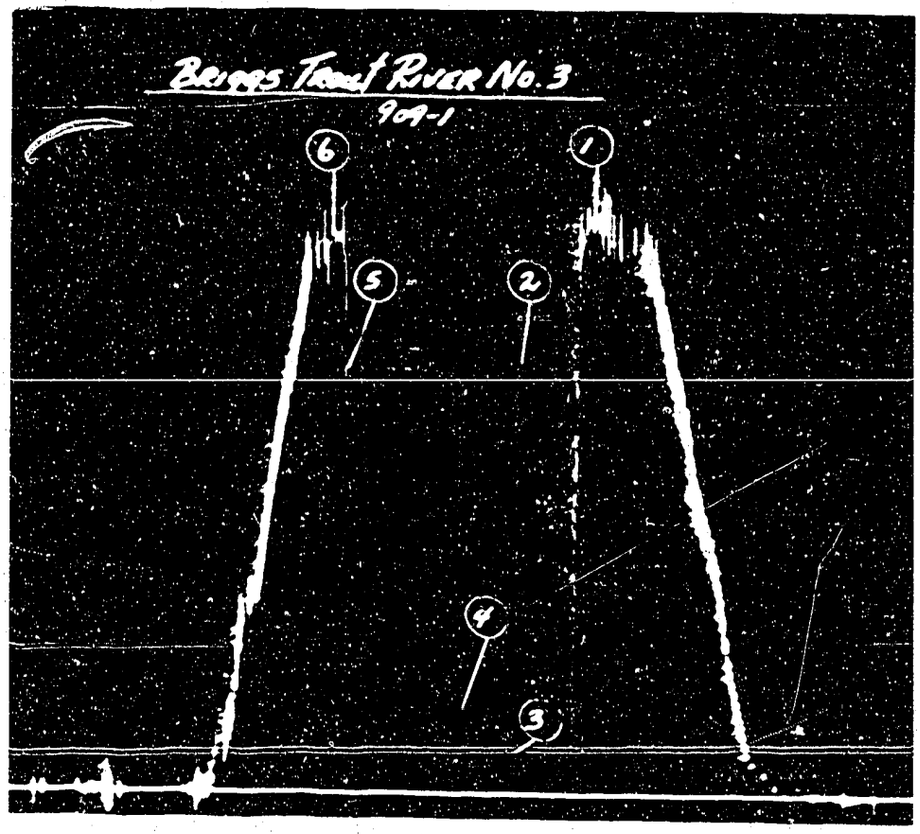
March 2, 1960

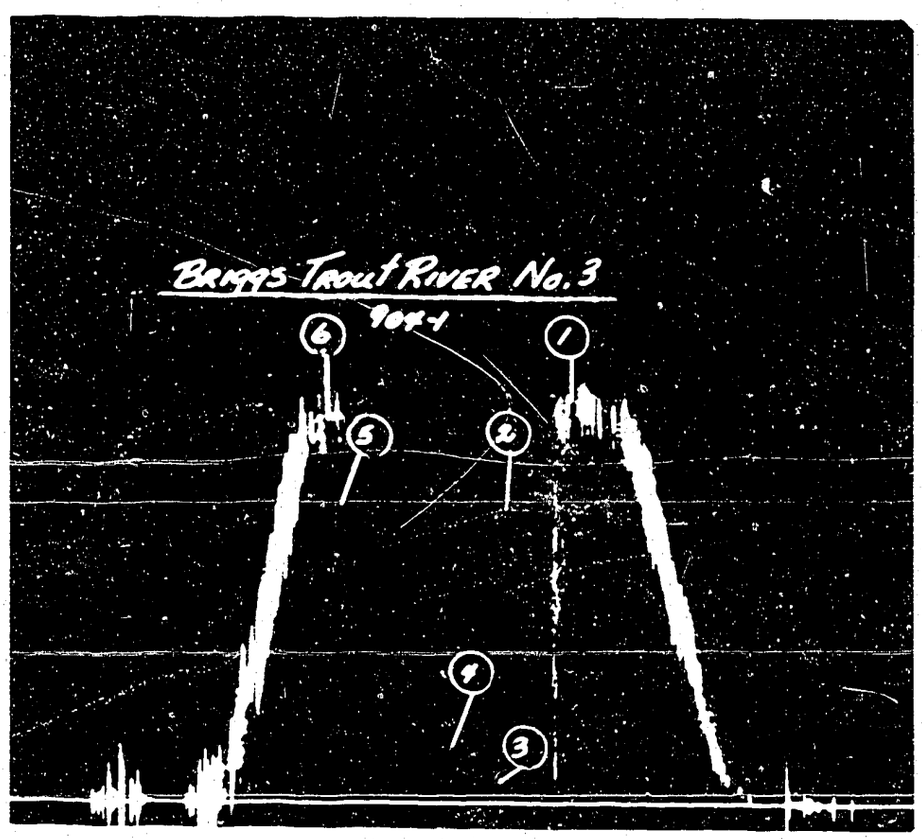
PRESSURES ON BUILD-UP

D. Todd Briggs - Nominee | Briggs Trout River No. 3 | 1 | March 2, 1960
COMPANY | WELL NAME AND NUMBER | TEST NO. | DATE






BRIGGS TROUT RIVER No. 3
909-1
6
1
5
2
4
3


BRIGGS TROUT RIVER No. 3
909-1
6
1
5
2
4
3

GUTHRIE McLAREN DRILLING LTD.

Company Representative: W. Miller
Tool Pusher

Well No. BRIGGS TROUT RIVER #3

Date MARCH 3/60

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

Report 1

Drilled From ..... To ..... Hole Made .....

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.	Diesel Fuel Meter Reading
Table R.P.M.			Pipe on Racks Jts.	Today
Depth	Deviation		Total Pipe on Lease 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							Liner Size	Liner Size
1							Water-Loss	Filter Cake / PH
2								
3								
4							Mud Added Sacks	
5							Chemicals Added Lbs.	
6								
7								

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D. MAHNS	Core Bit	Serial
Derrickman	D. BOGSTIE	Reaming Bit	Serial
Cat Headman	M. LAFRENTZ	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	O. ROTTMANN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L. TROSS		
Leaseman			

REMARKS	FROM	TO
RIG HIGH LINE	12:00	12:30
LAY DOWN 44 STDS 4½ PIPE	12:30	3:45
RUN & DISPLACE PLUG #3	3:45	4:00
W.O.C.	4:00	8:00
Plug #3 300 – 400.		
Mixed 65 Sacks Cement		
+ 2% CaCl2 Displaced with 4 bbls		
Plug in Place @ 4:00 AM		

Report 2

Drilled From ..... To ..... Hole Made .....

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.	
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							Liner Size	Liner Size
9							Water-Loss	Filter Cake / PH
10								
11								
12							Mud Added Sacks	
1							Chemicals Added Lbs.	
2								
3								

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B. BRISCOE	Core Bit	7 HRS Serial
Derrickman	B. ANDERSON	Reaming Bit	HRS Serial
Cat Headman	L. DAGHUS	Core Cutters SF. HF.	HRS Core Catchers SF. HF.
Rotary Helper	R. ANDERSEN	Swab Cups	HRS Swab Rubbers
Rotary Helper			
Fireman	M. HACKNEY		
Leaseman			

REMARKS	FROM	TO
W.O.C.	8:00	11:00
Felt Plug #3	11:00	11:30
Tear Out	11:30	5:00
Felt Plug #3 @ 11:30 AM		
Found top at 292'.		
K.B. RELEASED MAR.		

Report 3

Drilled From ..... To ..... Hole Made .....

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.	
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							Liner Size	Liner Size
5							Water-Loss	Filter Cake / PH
6								
7								
8							Mud Added Sacks	
9							Chemicals Added Lbs.	
10								
11								

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B. SEMAK	Core Bit	7 HRS Serial
Derrickman	B. ANDERSON	Reaming Bit	HRS Serial
Cat Headman		Core Cutters SF. HF.	HRS Core Catchers SF. HF.
Rotary Helper	H. BOGSTIE	Swab Cups	HRS Swab Rubbers
Rotary Helper			
Fireman	S. SHURACK		
Leaseman			

REMARKS	FROM	TO
TEAR OUT		
P.M.		
4:00		
3/60		
DJB Mar.		

GUTHRIE McLAREN DRILLING LTD.

Well No. BRIGGS TROUT RIVER #3

Company Representative: W. Mahler

Tool Pusher

Date MARCH 2/60

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

Run 1

CORED ~~Drilled~~ From 3521 To 3534 Hole Made 3'

Bit No.	12 A
Serial No.	C-11
Bit Size	6 3/8
Bit Type	◇
Dr. from	
Dr. to	
Cored from	3459
Cored to	3534
Reamed from	
Reamed to	
Total Bit Footage	75
Bit Hrs.	24
Table R.P.M.	80

No. Stds.	51-S Length 3112.78
No. D.C.'s	11 Length 318.11
	Length
CORE BBL	Length 64.62
Kelly in	38.49
TOTAL	3534.00
D.C.O.D. Top	6 1/4 Hrs. On Bottom 2
D.C.I.D. Top	2 7/8 Hrs. Off Bottom 6
Pipe Size	4 1/2 Trip Time 4
C.S.G. Set at	349 Serv. Time
C.S.G. Size	8 5/8 Rep. Time
Pipe in Hole	103 Jts. Diesel Fuel Meter Reading
Pipe on Racks	22 Jts. Today
Total Pipe on Lease	125 Jts. Yesterday
	Consumption Gals.

Depth / Deviation

Depth / Deviation

Depth / Deviation

Depth / Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size 6 3/4 x 12	No. 2 Pump Size 5 x 10
12	10.7	200	35	500	3/4		Liner Size 6 3/4	Liner Size 5
1							Water-Loss	Filter Cake PH
2								
3								
4								
5							Mud Added Sacks	
6							Chemicals Added Lbs.	
7								

CREW

Driller D. MANNS
Derrickman D. BOGSTIE
Cat Headman M. LARENTZ
Rotary Helper O. ROTTMANN
Rotary Helper
Fireman L. TROSS
Leaseman

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

FROM	TO	REMARKS
12:00	2:00	◇ COPING
2:00	2:15	BREAK CORE
2:15	4:15	HOIST CORE
4:15		RECOVER CORE & STAND BACK
	5:15	CORE BBL.
5:15	6:00	MAKE UP PACKER
6:00	8:00	RUN IN W/ SAME

Core #2 - 3505' - 3534' (29')

Run 2

Drilled From ..... To ..... Hole Made .....

Bit No.	
Serial No.	
Bit Size	
Bit Type	
Dr. from	
Dr. to	
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	
Bit Hrs.	
Table R.P.M.	

No. Stds.	Length
No. D.C.'s	Length
	Length
	Length
Kelly in	
TOTAL	
D.C.O.D. Top	Hrs. On Bottom
D.C.I.D. Top	Hrs. Off Bottom
Pipe Size	Trip Time
C.S.G. Set at	Serv. Time
C.S.G. Size	Rep. Time
Pipe in Hole	Jts. REMARKS:
Pipe on Racks	Jts.
Total Pipe on Lease	Jts.

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
8		DST #1					Liner Size	Liner Size
9		INT 3457 - 353					Water-Loss	Filter Cake PH
10		VO 30 min, Int Shut 30 min, Fin Shut in 60 min						
11		Rec 5'20' of muddy Sulphurous Salt Water						
12		IHP 2046 FHP 2040						
1		IFP 120 FFP					Mud Added Sacks 99	
2		ISP 1334 FSP					Chemicals Added Lbs. 24	
3		Test Off						

CREW

Driller B. BRISCOE
Derrickman B. ANDERSON
Cat Headman L. PAULHUS
Rotary Helper B. ANDERSEN
Rotary Helper
Fireman R. HACKNEY
Leaseman

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

FROM	TO	REMARKS
8:00	8:30	RUN IN W/ PACKER
8:30	10:30	WELL ON TEST
10:30	1:00	HOIST & LAY DOWN PACKER
1:00	2:15	RUN IN OPEN END
2:15	3:15	BAW & DISP PLUG ONE
3:15	3:45	HOIST TO RUN PLUG TWO
3:45	4:00	RUN PLUG TWO

Plug 1st 3534-3300
Mixed 75 Sks Cement Disp.
With 46 Bbls mud Plug in place
3:45 PM
Plug 2nd 3200 2900
Mixed 110 Sks Cement CaCl2
Disp. w/ 41 Bbls mud Plug in place
@ 4:15 PM

Run 3

Drilled From ..... To ..... Hole Made .....

Bit No.	
Serial No.	
Bit Size	
Bit Type	
Dr. from	
Dr. to	
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	
Bit Hrs.	
Table R.P.M.	

No. Stds.	Length
No. D.C.'s	Length
	Length
	Length
Kelly in	
TOTAL	
D.C.O.D. Top	Hrs. On Bottom
D.C.I.D. Top	Hrs. Off Bottom
Pipe Size	Trip Time
C.S.G. Set at	Serv. Time
C.S.G. Size	Rep. Time
Pipe in Hole	Jts. REMARKS:
Pipe on Racks	Jts.
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
4							Liner Size	Liner Size
5							Water-Loss	Filter Cake PH
6								
7								
8								
9							Mud Added Sacks	
10							Chemicals Added Lbs.	
11								

CREW

Driller W. SEMAR
Derrickman D. ANDERSEN
Cat Headman S. ANDERSEN
Rotary Helper M. BOGSTIE
Rotary Helper
Fireman G. SANTROCK
Leaseman

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

FROM	TO	REMARKS
4:00	4:15	DISPLACE PLUG NO 2
4:15	5:00	HOIST PIPE
		LAY DOWN CORE BBLS DRILL COLLARS
5:00	11:15	& 4 1/2 DRILL STEM DUMP MUD TANKS
11:15	12:00	RUN IN W/BIT TO FEEL PLUG #2

Felt Plug #2 at 12:00 pm
Top of Plug at 2880'

GUTHRIE McLAREN DRILLING LTD.

Company Representative: W. Miller — Tool Pusher

Well No. BIGGS TROUT RIVER 3rd — Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Date MARCH 1/60

	Reamed Drilled From 3459 To 3488 Hole Made 29	Cored Reamed From 3488 To 3505 Hole Made 17	Cored Drilled From 3505 To 3508 Hole Made 3	Cored From 3508 To 3531 Hole Made 23
Bit No.	11 Reborn	11 Reborn	12A	12A
Serial No.	3916	3916	C-11	C-11
Bit Size	7 7/8	7 7/8	6 1/8	6 1/8
Bit Type	OWC	OWC	◇	◇
Dr. from	3364	3364		
Dr. to	3415	3415		
Cored from			3488	3508
Cored to			3508	3531
Reamed from	3459	3459		
Reamed to	3488	3505		
Total Bit Footage	80	97	49	72
Bit Hrs.	12 1/4	16	14 1/2	22
Table R.P.M.	100	80	86	80
No. Stds.	52 Length 3142.89	51-5 Length 3112.78	51-5 Length 3112.78	51-5 Length 3112.78
No. D.C.'s	11 Length 318.11	11 Length 318.11	CORE BBLS Length 64.62	CORE BBLS Length 64.62
	Length	Length	Length	Length
Kelly in =	27.00	12.49	12.49	35.49
TOTAL =	3488.00	3505.00	3508.00	3531.00
D.C.O.D. Top	6 1/4 Hrs. On Bottom	6 1/4 Hrs. On Bottom	6 1/4 Hrs. On Bottom	6 1/4 Hrs. On Bottom 8
D.C.I.D. Top	2 7/8 Hrs. Off Bottom	2 7/8 Hrs. Off Bottom	2 7/8 Hrs. Off Bottom	2 7/8 Hrs. Off Bottom
Pipe Size	4 1/2 Trip Time	4 1/2 Trip Time	4 1/2 Trip Time	4 1/2 Trip Time
C.S.G. Set at	349 Serv. Time	349 Serv. Time	349 Serv. Time	349 Serv. Time
C.S.G. Size	8 5/8 Rep. Time	8 5/8 Rep. Time	8 5/8 Rep. Time	8 5/8 Rep. Time
Pipe in Hole	104 Jts.	103 Jts.	103 Jts.	103 Jts.
Pipe on Racks	21 Jts.	22 Jts.	22 Jts.	22 Jts.
Total Pipe on Lease	125 Jts.	125 Jts.	125 Jts.	125 Jts.
Diesel Fuel Meter Reading	Today			
	Yesterday			
	Consumption Gals.			
REMARKS:				-
Depth / Deviation				
Depth / Deviation				
Depth / Deviation				
Depth / Deviation				

Mud Records

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size / Liner Size	No. 2 Pump Size / Liner Size	Water-Loss	Filter Cake	PH
12							6 3/4 X 12 / 6 3/4	5 X 10 / 5			
1											
2	TRIP										
3									5.4	2/32	12.5
4											
5							Mud Added Sacks				
6	10.7	70		600	3/4		Chemicals Added Lbs.				
7	10.4	70		600	3/4						
8							No. 1 Pump Size 6 3/4 X 12 / Liner Size 6 3/4	No. 2 Pump Size 5 X 10 / Liner Size 5			
9									Water-Loss	Filter Cake	PH
10											
11											
12											
1											
2	10.5	175	35	500	3/4		Mud Added Sacks 400# CEL				
3							Chemicals Added Lbs. 200# MY-LO-GEL				
4	10.5	125	35	500	3/4		No. 1 Pump Size 6 3/4 X 12 / Liner Size 6 3/4	No. 2 Pump Size 5 X 10 / Liner Size 5			
5	10.6	125	35	500	3/4				Water-Loss	Filter Cake	PH
6	10.6	127	35	500	3/4				5.3	2/32	12.5
7	10.6	127	35	500	3/4						
8	10.6	127	35	500	3/4						
9	10.6	129	35	500	3/4						
10	10.7	138	35	500	3/4		Mud Added Sacks				
11	10.9	150	35	500	3/4		Chemicals Added Lbs. 200# CAUSTIC				

Crew

Driller	P. MOHNS	B. BRISCOE	W. SEMAR
Derrickman	B. BOGSTIE	D. ANDERSON	D. ANDERSON
Cat Headman	M. LAFRENTZ	J. PAULHUS	S. ANDERSEN
Rotary Helper	O. ROTMAN	K. ANDERSEN	H. BOGSTIE
Rotary Helper			
Fireman	L. TRUSS	M. HACKNEY	E. SANTROCK
Leaseman			

Materials Charged to Operator

	Core Bit	Serial	Reaming Bit	Serial	Core Cutters SF. HF.	Core Catchers SF. HF.	Swab Cups	Swab Rubbers
Reamed 3459–3488								
Reamed 3488–3505								
Cored 3505–3508								
Cored 3508–3531								

Remarks

Reamed 3459–3488	From	To
HOIST CORE	12:00	1:30
HANDLE CORE & STAND BACK 13 BLS	1:30	3:30
RUN IN W/ BIT.	3:30	5:00
BREAK CIRC.	5:00	5:15
REAMING	5:15	8:00
Core #1 – 3459–3505 (46')		

Reamed 3488–3505 / Cored 3505–3508	From	To
K.G. SERVICE.	8:00	8:15
REAMING.	8:15	11:15
HOISTING.	11:15	12:15
PICK UP CORE BBLS.	12:15	7:00
SLIP LINE.	1:00	1:15
RUN IN HOLE.	1:15	2:15
CORING.	2:15	3:30
WORK ON PUMP.	3:30	4:00

Cored 3508–3531	From	To
◇ CORE	4:00	12:00
Core #2		

GUTHRIE McLAREN DRILLING LTD.

Well No. BRIGGS TROUT RIVER #3

Company Representative: W Miller — Tool Pusher

Date FEB 29/62

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Drilled From	To	Hole Made	
Drilled From 3459 (Cored)	To 3479	Hole Made 20	
Cored Drilled From 3479	To 3505	Hole Made 26	

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.	Diesel Fuel Meter Reading
Table R.P.M.		Pipe on Racks Jts.	Today
		Total Pipe on Lease 125 Jts.	Yesterday
Depth	Deviation		Consumption Gals.
Depth 3459	Deviation 3°		
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12						
1						
2						
3						
4	11.1	128				
5						
6						
7						

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH

Mud Added Sacks

Chemicals Added Lbs.

CREW

Driller	D MOHNS
Derrickman	D BOGSTIE
Cat Headman	M LAFRENTZ
Rotary Helper	O ROTTMANN
Rotary Helper	
Fireman	L TRUSS
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial		
Reaming Bit	Serial		
Core Cutters SF. HF.	Core Catchers SF. HF.		
Swab Cups	Swab Rubbers		

REMARKS	FROM	TO
HOIST PIPE	12:00	1:30
RUN IN W/ MAGNET	1:30	3:30
WORK MAGNET.	3:30	4:00
HOIST MAGNET	4:00	6:30
PICK UP 5 CORD CORE BBLS	6:30	8:00

Bit No.	12A	No. Stds. 51	Length 3082.13
Serial No.	C-11	No. D.C.'s 11	Length 318.11
Bit Size	6 1/8	CORE BBLS	Length 64.62
Bit Type	◇		Length 141.14
Dr. from		Kelly in =	
Dr. to		TOTAL =	3479.00
Cored from	3459	D.C.O.D. Top 6 1/4	Hrs. On Bottom
Cored to	3479	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 349	Serv. Time
Total Bit Footage	20	C.S.G. Size 8 5/8	Rep. Time
Bit Hrs.	5 1/2	Pipe in Hole 102 Jts.	REMARKS:
Table R.P.M.	85	Pipe on Racks 23 Jts.	
Depth	Deviation	Total Pipe on Lease 125 Jts.	
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8						
9						
10						
11	10.6	70				
12	10.6	70				
1						
2	10.6	68	36	600	3/4	
3	10.6	68	36	600	3/4	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
5.0	3/32	12.5 ott

Mud Added Sacks

Chemicals Added Lbs. 100# CAUSTIC, 50# SPERSENE

CREW

Driller	B BALSCOE
Derrickman	B ANDERSON
Cat Headman	J PAULHUS
Rotary Helper	B ANDERSEN
Rotary Helper	
Fireman	M HACKNEY
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial		
Reaming Bit	Serial		
Core Cutters SF. HF.	Core Catchers SF. HF.		
Swab Cups	Swab Rubbers		

REMARKS	FROM	TO
RIG SERVICE	9:00	9:15
RUN IN W/ CORE BBLS	9:15	9:30
CIRC CORE BBLS	9:30	10:30
◇ CORING	10:30	4:00

Core #1 — 3459 - 3505 (46')

Bit No.	12A	No. Stds. 51	Length 3082.13
Serial No.	C-11	No. D.C.'s 11	Length 318.11
Bit Size	6 1/8	CORE BBLS	Length 64.62
Bit Type	◇		Length
Dr. from		Kelly in =	40.14
Dr. to		TOTAL =	3505.00
Cored from	3459	D.C.O.D. Top 6 1/4	Hrs. On Bottom
Cored to	3505	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 349	Serv. Time
Total Bit Footage	46	C.S.G. Size 8 5/8	Rep. Time
Bit Hrs.	12 3/4	Pipe in Hole 102 Jts.	REMARKS:
Table R.P.M.	85	Pipe on Racks 23 Jts.	
Depth	Deviation	Total Pipe on Lease 125 Jts.	
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.6	68	36	600	3/4	
5	10.7	70	36	600	3/4	
6	10.7	75	36	600	3/4	
7	10.7	87	36	600	3/4	
8	10.9	93	36	600	3/4	
9	10.9	94	36	600	3/4	
10	10.9	94	36	600	3/4	
11	10.9	95	36	600	3/4	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
5.5	3/32	12.6

Mud Added Sacks

Chemicals Added-Lbs. SPERSENE - 50 LBS, CAUSTIC - 100 LBS.

CREW

Driller	W SEMAK
Derrickman	D ANDERSON
Cat Headman	S ANDERSEN
Rotary Helper	H BOGSTIE
Rotary Helper	
Fireman	G SANTROCK
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial		
Reaming Bit	Serial		
Core Cutters SF. HF.	Core Catchers SF. HF.		
Swab Cups	Swab Rubbers		

REMARKS	FROM	TO
◇ CORE	4:00	11:15
BREAK CORE	11:15	11:30
HOIST CORE	11:30	12:00

GUTHRIE McLAREN DRILLING LTD.

Company Representative: W Willer

Tool Pusher:

Well No. BRICES TROUT RIVER #3

Date FEB 28/60

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

	Drilled From ____ To ____ Hole Made ____	Drilled From 3415 To 3423 Hole Made 8	Drilled From 3423 To 3459 Hole Made 36
Bit No.		12	12
Serial No.		3892	3892
Bit Size		7 7/8	7 7/8
Bit Type		OWC	OWC
Dr. from		3415	3415
Dr. to		3423	3459
Cored from			
Cored to			
Reamed from			
Reamed to			
Total Bit Footage		8	44
Bit Hrs.		2 1/2	10
Table R.P.M.		85	85
No. Stds.		51	51-5
No. D.C.'s		11	11
Kelly in =		22.76	28.11
TOTAL =		3423.00	3459.00
D.C.O.D. Top		6 1/4 Hrs. On Bottom	6 1/4 Hrs. On Bottom 7 1/4
D.C.I.D. Top		2 7/8 Hrs. Off Bottom	2 7/8 Hrs. Off Bottom 3/4
Pipe Size		4 1/2 Trip Time	4 1/2 Trip Time 1/2
C.S.G. Set at		349 Serv. Time	349 Serv. Time
C.S.G. Size		8 5/8 Rep. Time	8 5/8 SURVEY Rep. Time 1/4
Pipe in Hole	Jts.	102 Jts.	103 Jts.
Pipe on Racks	Jts.	23 Jts.	22 Jts.
Total Pipe on Lease	125 Jts.	125 Jts.	125 Jts.
Diesel Fuel Meter Reading		REMARKS:	REMARKS:
Today			
Yesterday			
Consumption	Gals.		
Depth / Deviation			

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

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D MOHNS	Core Bit	Serial
Derrickman	D. BOGSTIE	Reaming Bit	Serial
Cat Headman	M. LAFRENTZ	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	O. ROTTMANN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L. TROSS		
Leaseman			

REMARKS	FROM	TO
LOGGING	12:00	5:00
FORMATION TESTING	5:00	8:00
Schlumberger Formation Sample Test #1		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Water-Loss	Filter Cake	PH
							6 3/4 X 12	5 X 10			
8							Liner Size 6 3/4	Liner Size 5			
9											
10											
11											
12											
1							Mud Added Sacks				
2							Chemicals Added Lbs. 100 # SPERSENE				
3	10.7	82	70	600	1/2	~					

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B. BRISCOE	Core Bit	Serial
Derrickman	D. ANDERSON	Reaming Bit	Serial
Cat Headman	J. PAULHUS	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	B. ANDERSEN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	M. HACKNEY		
Leaseman			

REMARKS	FROM	TO
FORMATION TESTING.	8:00	11:00
WAIT ON ORDERS.	11:00	12:30
RUN IN W/ BIT 12"	12:30	1:30
DRILLING.	1:30	4:00

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Water-Loss	Filter Cake	PH
							6 3/4 X 12	5 X 10			
4	10.8	82	70	600	1/2		Liner Size 6 3/4	Liner Size 5			
5	10.8	80	70	600	1/2						
6	10.9	80	70	600	1/2		4.0		7/32		12.8
7	10.9	78	70	600	1/2						
8	10.9	85	70	600	1/2						
9	10.9	95	70	600	1/2		Mud Added Sacks				
10	10.9	90	70	600	1/2		Chemicals Added Lbs. SPERSENE - 50 LBS.				
11	10.9	85	70	600	1/2		CAUSTIC - 100 LBS.				

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	G. SEMAK	Core Bit	Serial
Derrickman	D ANDERSON	Reaming Bit	Serial
Cat Headman	S. ANDERSEN	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	H. BOGSTIE	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	G. SANTROCK		
Leaseman			

REMARKS	FROM	TO
DRILL	4:00	11:15
DROP SURVEY	11:15	11:30
HOIST TO RUN MAGNET	11:30	12:00

Company Representative: Art W. Letang

Tool Pusher:

GUTHRIE McLAREN DRILLING LTD.

Well No. BRIGGS TROUT RIVER #3

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Date FEB 27/60

Day 1

Drilled From 3373 To 3411 Hole Made 38

Bit No.	11	No. Stds.	Length 3082.13
Serial No.	3916	No. D.C.'s 11	Length 318.11
Bit Size	7 7/8		Length
Bit Type	OWC		Length
Dr. from	3364	Kelly in =	10.76
Dr. to	3411	TOTAL =	3411.00
Cored from		D.C.O.D. Top 6 1/4	Hrs. On Bottom 7 1/2
Cored to		D.C.I.D. Top 2 7/8	Hrs. Off Bottom 1/2
Reamed from		Pipe Size 4 1/2	Trip Time
Reamed to		C.S.G. Set at 349	Serv. Time
Total Bit Footage	47	C.S.G. Size 8 5/8	Rep. Time 1/2
Bit Hrs.	9	Pipe in Hole 102 Jts.	Diesel Fuel Meter Reading
Table R.P.M.	90	Pipe on Racks 23 Jts.	Today
Depth	Deviation	Total Pipe on Lease 125 Jts.	Yesterday
Depth	Deviation		Consumption Gals.
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12	10.8	75	70	600	1/2	
1	10.8	75	70	600	1/2	
2	10.8	75	70	600	1/2	
3	10.8	78	70	600	1/2	
4	10.8	80	70	600	1/2	
5	10.8	80	70	600	1/2	
6	10.9	80	70	600	1/2	
7	10.9	83	70	600		

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.8	3/32	13.0
3.0	3/32	13.0

Mud Added Sacks 1200# GEL.
Chemicals Added Lbs.

CREW	
Driller	W. SEMAK
Derrickman	D. ANDERSON
Cat Headman	S. ANDERSEN
Rotary Helper	H. BOGSTIE
Rotary Helper	
Fireman	G. SANTROCK
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
DRILL	1200	345
WORK ON PUMP	345	415
DRILL	415	800

Day 2

Drilled From 3411 To 3415 Hole Made 4

Bit No.	11	No. Stds. 51	Length 3082.13
Serial No.	3916	No. D.C.'s 11	Length 318.11
Bit Size	7 7/8		Length
Bit Type	OWC		Length
Dr. from	3364	Kelly in =	14.76
Dr. to	3415	TOTAL =	3415.00
Cored from		D.C.O.D. Top 6 1/4	Hrs. On Bottom 3/4
Cored to		D.C.I.D. Top 2 7/8	Hrs. Off Bottom 7 1/4
Reamed from		Pipe Size 4 1/2	Trip Time 4 1/4
Reamed to		C.S.G. Set at 349	Serv. Time
Total Bit Footage	51	C.S.G. Size 8 5/8	Rep. Time 2
Bit Hrs.	9 3/4	Pipe in Hole 102 Jts.	REMARKS:
Table R.P.M.	80	Pipe on Racks 23 Jts.	
Depth	Deviation	Total Pipe on Lease 125 Jts.	
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	11	85	70	600	1/2	
9						
10	TRIP					
11						
12						
1						
2						
3						

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH

Mud Added Sacks 1400# GEL.
Chemicals Added Lbs.

CREW	
Driller	D. MOHNS
Derrickman	D. BOGSTIE
Cat Headman	M. LAFRENTZ
Rotary Helper	O. ROTTMANN
Rotary Helper	
Fireman	L. TROSS
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
DRILL	8:00	8:30
HOIST PIPE FOR PLUGGED FLOAT & BIT	8:30	11:00
WORK ON PUMP	11:00	1:00
RUN IN W/BIT	1:00	2:45
DRILL	2:45	3:00
CIRC.	3:00	4:00

Day 3

Drilled From ____ To 3415 Hole Made ____

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 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 349	Serv. Time
Total Bit Footage		C.S.G. Size 8 5/8	Rep. Time
Bit Hrs.		Pipe in Hole Jts.	REMARKS:
Table R.P.M.		Pipe on Racks Jts.	
Depth	Deviation	Total Pipe on Lease Jts.	
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4						
5	11.0	130	70			
6						
7						
8						
9						
10						
11						

No. 1 Pump Size — Liner Size
No. 2 Pump Size — Liner Size

Water-Loss	Filter Cake	PH
32	2/32	13

Mud Added Sacks 700#
Chemicals Added Lbs. 100# MY-LO-GEL

CREW	
Driller	B. BRISCOE
Derrickman	D. ANDERSON
Cat Headman	L. DAILHUS
Rotary Helper	B. ANDERSEN
Rotary Helper	
Fireman	M. HACKNEY
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
CIRC & COND MUD	400	515
HOIST & STAND PIPE.	515	630
E-LOGGING.	630	1200
MEASURED - 3082.52		
PIPE TALLY - 3082.13		
DIFF .39		

GUTHRIE McLAREN DRILLING LTD.

Company Representative: Art W Guthrie

Tool Pusher:

Well No. BRIGGS TROUT RIVER #2

Date FEB 26/60

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

Drilled From 3294 To 3317 Hole Made 23

Bit No.	9	10
Serial No.	59027	6480
Bit Size	7 7/8	7 7/8
Bit Type	OSC	OWC
Dr. from	3249	3306
Dr. to	3306	3317
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	57	11
Bit Hrs.	8 1/2	2
Table R.P.M.	90	90

No. Stds. ..... Length 2961.22
No. D.C.'s 11 Length 318.11
Length
Length
Kelly in = 37.67
TOTAL = 3317.00
D.C.O.D. Top 6 1/4 Hrs. On Bottom 5
D.C.I.D. Top 2 7/8 Hrs. Off Bottom 3
Pipe Size 4 1/2 Trip Time 3
C.S.G. Set at 349 Serv. Time
C.S.G. Size 8 5/8 Rep. Time
Pipe in Hole 98 Jts. Diesel Fuel Meter Reading
Pipe on Racks 27 Jts. Today
Total Pipe on Lease 125 Jts. Yesterday
Consumption Gals.

Depth ..... Deviation .....
Depth ..... Deviation .....
Depth ..... Deviation .....
Depth ..... Deviation .....

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12	10.3	68	70	600	1/2	
1	10.4	65	70	600	1/2	
2	10.4	65	70	600	1/2	
3					P	
4						
5	T	R	I	P		
6						
7	10.4	65	70	600	1/2	

No. 1 Pump Size 6 3/4 X 12 Liner Size 6 3/4
No. 2 Pump Size 5 X 10 Liner Size 5

Water-Loss	Filter Cake	PH

Mud Added Sacks
Chemicals Added Lbs.

CREW

Driller	W. SEMAR
Derrickman	D. ANDERSON
Cat Headman	S. ANDERSEN
Rotary Helper	H. BOGSTIE
Rotary Helper	
Fireman	G. SANTROCK
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
DRILL	12:00	3:00
HOIST FOR BIT, ERUN IN W/ BIT	3:00	6:00
DRILL	6:00	8:00

Drilled From 3317 To 3347 Hole Made 30

Bit No.	10
Serial No.	6480
Bit Size	7 7/8
Bit Type	OWC
Dr. from	3306
Dr. to	3347
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	41
Bit Hrs.	9 3/4
Table R.P.M.	90

No. Stds. 49.5 Length 2991.76
No. D.C.'s 11 Length 318.11
Length
Length
Kelly in = 37.13
TOTAL = 3347.00
D.C.O.D. Top 6 1/4 Hrs. On Bottom 7 3/4
D.C.I.D. Top 2 7/8 Hrs. Off Bottom 1 1/4
Pipe Size 4 1/2 Trip Time
C.S.G. Set at 349 Serv. Time 1/4
C.S.G. Size 8 5/8 Rep. Time
Pipe in Hole 99 Jts. REMARKS:
Pipe on Racks 26 Jts.
Total Pipe on Lease 125 Jts.

Depth ..... Deviation .....
Depth ..... Deviation .....
Depth ..... Deviation .....
Depth ..... Deviation .....

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	10.4	65	70	600	1/2	
9	10.3	65	70	600	1/2	
10	10.3	65	70	600	1/2	
11	10.3	65	70	600	1/2	
12	10.8	75	70	600	1/2	
1	10.8	75	70	600	1/2	
2	10.8	75	70	600	1/2	
3	10.8	75	70	600	1/2	

No. 1 Pump Size 6 3/4 X 12 Liner Size 6 3/4
No. 2 Pump Size 5 X 10 Liner Size 5

Water-Loss	Filter Cake	PH
3.8	2/32	13.0
3.2	2/32	13.0

Mud Added Sacks GEL 600 LBS, MY-LO-SEL 100 LBS
Chemicals Added Lbs. CAUSTIC 100 LBS, SPERSENE 100 LBS

CREW

Driller	D. MOHNS
Derrickman	D. BOGSTIE
Cat Headman	M. LAFRENTZ
Rotary Helper	O. ROTTMANN
Rotary Helper	
Fireman	L. TRUSS
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
RIG SERV. & CHECK B.O.P	8:00	8:15
DRILL	8:15	4:00

Drilled From 3347 To 3373 Hole Made 26

Bit No.	10
Serial No.	6480
Bit Size	7 7/8
Bit Type	OWC
Dr. from	3306
Dr. to	3364
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	58
Bit Hrs.	14
Table R.P.M.	90

Bit No.	11
Serial No.	3916
Bit Size	7 7/8
Bit Type	OWC
Dr. from	3364
Dr. to	3373
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	9
Bit Hrs.	1 1/2
Table R.P.M.	90

No. Stds. 50 Length 3321.99
No. D.C.'s 11 Length 318.11
Length
Length
Kelly in = 32.90
TOTAL = 3373.00
D.C.O.D. Top 6 1/4 Hrs. On Bottom
D.C.I.D. Top 2 7/4 Hrs. Off Bottom
Pipe Size 4 1/2 Trip Time
C.S.G. Set at 349 Serv. Time
C.S.G. Size 8 5/8 Rep. Time
Pipe in Hole 100 Jts. REMARKS:
Pipe on Racks 25 Jts.
Total Pipe on Lease 125 Jts.

Depth ..... Deviation .....
Depth ..... Deviation .....
Depth ..... Deviation .....
Depth ..... Deviation .....

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.8	75	70	600	1/2	
5	10.7	70	70	600	1/2	
6	10.7	70	70	600	1/2	
7	10.7	70	70	600	1/2	
8	10.7	72	70	600	1/2	
9	T					
10		R I P				
11	10.8	75	70	600	1/2	

No. 1 Pump Size 6 3/4 X 12 Liner Size 6 3/4
No. 2 Pump Size 5 X 10 Liner Size 5

Water-Loss	Filter Cake	PH
3.4	2/32	13.0

Mud Added Sacks
Chemicals Added Lbs.

CREW

Driller	B. BRISCOE
Derrickman	D. HARRISON
Cat Headman	L. PAULHUS
Rotary Helper	B. ANDERSEN
Rotary Helper	
Fireman	
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
Drilling	4:00	8:15
TRIP FOR BIT	8:15	10:30
DRILLING	10:30	12:00

GUTHRIE McLAREN DRILLING LTD.

Company Representative: Art W. Stirling

Tool Pusher:

Date: FEB 25/60

BRIGGS Well No. TROUT RIVER #3

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

Report 1

Drilled From 3165 To 3223 Hole Made 58

Bit No.	8	No. Stds.	47-S Length 2870.67
Serial No.	94446	No. D.C.'s	11 Length 318.11
Bit Size	7 7/8		Length
Bit Type	OSC		Length
Dr. from	3082	Kelly in =	34.22
Dr. to	3223	TOTAL =	3223.00
Cored from		D.C.O.D. Top	6 1/4 Hrs. On Bottom 8
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	349 Serv. Time
Total Bit Footage	141	C.S.G. Size	8 5/8 Rep. Time
Bit Hrs.	19 3/4	Pipe in Hole	95 Jts. Diesel Fuel Meter Reading
Table R.P.M.	100	Pipe on Racks	30 Jts. Today
Depth	Deviation	Total Pipe on Lease	125 Jts. Yesterday
Depth	Deviation		Consumption Gals.
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12	10.7	70	70	600	1/2	✓
1	MIX					
2	MUD					
3	10.9	77	70	600	1/2	✓
4	10.9	85	70	600	1/2	✓
5	10.9	80	70	600	1/2	✓
6	10.9	70	70	600	1/2	✓
7	10.9	70	70	600	1/2	

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4 — No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
3	2/32	12.5
3.2	2/32	12.5

Mud Added Sacks: GEL - 1500 LBS.

Chemicals Added Lbs.: SPERSENE - 100 LBS. CAUSTIC - 200 LBS.

CREW	
Driller	W. SEMAR
Derrickman	D ANDERSON
Cat Headman	S ANDERSEN
Rotary Helper	H BOGSTIE
Rotary Helper	
Fireman	E. SANTROCK
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
DRILL	1200	800

Report 2

Drilled From 3223 To 3249 Hole Made 26

Bit No.	8	No. Stds.	48 Length 2900.50
Serial No.	94446	No. D.C.'s	11 Length 318.11
Bit Size	7 7/8		Length
Bit Type	OSC		Length
Dr. from	3082	Kelly in =	30.09
Dr. to	3249	TOTAL =	3249.00
Cored from		D.C.O.D. Top	6 1/4 Hrs. On Bottom 4 1/4
Cored to		D.C.I.D. Top	2 7/8 Hrs. Off Bottom 3 3/4
Reamed from		Pipe Size	4 1/2 Trip Time 2 3/4
Reamed to		C.S.G. Set at	349 Serv. Time 1/4
Total Bit Footage	167	C.S.G. Size	8 5/8 Rep. Time
Bit Hrs.	24	Pipe in Hole	96 Jts. REMARKS:
Table R.P.M.	100	Pipe on Racks	29 Jts.
Depth	Deviation	Total Pipe on Lease	125 Jts.
Depth 3249	Deviation 4°		
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	10.9	70	50	400	1/2	
9	10.9	70	50	400	1/2	
10	10.8	70	50	400	1/2	
11	10.8	70	50	400	1/2	
12	10.8	70	50	400	1/2	
1						
2	TRIP					
3						

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4 — No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
3.4	3/32	13.0

Mud Added Sacks:

Chemicals Added Lbs.:

CREW	
Driller	D MORRIS
Derrickman	D BOGSTIE
Cat Headman	M LORENTZ
Rotary Helper	O ROTTMANN
Rotary Helper	
Fireman	L TROSS
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
RIG SERV & CHECK B.O.P	8:00	8:15
DRILL	8:15	12:30
SLIP LINE & SURVEY	12:30	1:15
HOIST PIPE	1:15	4:00

Report 3

Drilled From 3249 To 3294 Hole Made 45

Bit No.	7	No. Stds.	49 Length 2961.22
Serial No.	59027	No. D.C.'s	11 Length 318.11
Bit Size	7 7/8		Length
Bit Type	OSC		Length
Dr. from	3249	Kelly in =	14.67
Dr. to	3294	TOTAL =	3294.00
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	349 Serv. Time
Total Bit Footage	45	C.S.G. Size	8 5/8 Rep. Time
Bit Hrs.	5 1/2	Pipe in Hole	98 Jts. REMARKS:
Table R.P.M.	90	Pipe on Racks	27 Jts.
Depth	Deviation	Total Pipe on Lease	125 Jts.
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4						
5						
6	10.1	70	70	600	1/2	✓
7	10.1	70	70	600	1/2	✓
8	10.1	70	70	600	1/2	
9	10.1	70	70	200	1/2	
10	10.1	70	70	600	1/2	
11	10.3	68	70	600	1/2	

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4 — No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
3.6	2/32	13.0

Mud Added Sacks:

Chemicals Added Lbs.:

CREW	
Driller	R BRISCOE
Derrickman	R ANDERSON
Cat Headman	P PAULHUS
Rotary Helper	R ANDERSON
Rotary Helper	
Fireman	M HACKNEY
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
RUN IN W/ BIT 9#	400	530
WORK ON PUMP	530	630
DRILLING.	630	1200

Company Representative

Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. BRIGGS TROUT RIVER #3

Date FEB 24/60

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Drilled From 3029 To 3077 Hole Made 48

Bit No.	7		No. Stds.	45	Length 2719.95
Serial No.	7251		No. D.C.'s	11	Length 318.11
Bit Size	7 7/8				Length
Bit Type	OSC				Length
Dr. from	2870		Kelly in =		38.94
Dr. to	3077		TOTAL =		3077.00
Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom 8
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	349	Serv. Time
Total Bit Footage	207		C.S.G. Size	8 5/8	Rep. Time
Bit Hrs.	25 3/4		Pipe in Hole	90 Jts.	Diesel Fuel Meter Reading
Table R.P.M.	90		Pipe on Racks	35 Jts.	Today
Depth		Deviation	Total Pipe on Lease	125 Jts.	Yesterday
Depth		Deviation			Consumption Gals.
Depth		Deviation			
Depth		Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
1	11.	80	70	600	3/4	
2	11.	80	70	600	3/4	
3	11.	80	70	600	3/4	
4	11.1	78	70	600	3/4	
5	11.1	77	70	600	3/4	
6	11.1	75	70	600	3/4	
7	11.1	76	70	600	3/4	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4

No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.8	4/32	12.5

Mud Added Sacks

Chemicals Added Lbs.

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	W. SEMAR	Core Bit	Serial
Derrickman	D. ANDERSON	Reaming Bit	Serial
Cat Headman	S. ANDERSEN	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	H. ROGSTIE	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	G. SANTROCK		
Leaseman			

REMARKS	FROM	TO
DRILL	12:00	8:00

Drilled From 3077 To 3103 Hole Made 26

Bit No.	7	8	No. Stds.	45-5	Length 2750.03
Serial No.	7251	94446	No. D.C.'s		Length 318.11
Bit Size	7 7/8	7 7/8			Length
Bit Type	OSC	OSC			Length
Dr. from	2870	3082	Kelly in =		34.86
Dr. to	3082	3103	TOTAL =		3103.00
Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom 4 1/2
Cored to			D.C.I.D. Top	2 7/8	Hrs. Off Bottom 3 1/2
Reamed from			Pipe Size	4 1/2	Trip Time 3 1/4
Reamed to			C.S.G. Set at	349	Serv. Time 1/4
Total Bit Footage	212	21	C.S.G. Size	8 5/8	Rep. Time
Bit Hrs.	26 1/2	3 3/4	Pipe in Hole	91 Jts.	REMARKS:
Table R.P.M.	80	80	Pipe on Racks	34 Jts.	
Depth		Deviation	Total Pipe on Lease	125 Jts.	
Depth	3080	Deviation 5°			
Depth		Deviation			
Depth		Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	11	75	70	600	3/4	
9						
10	TRIP					
11						
12						
1	MIX	MUD				
2						
3						

No. 1 Pump Size 6 3/4 — Liner Size 6 3/4

No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH

Mud Added Sacks GEL 600 LBS SAT. 10-CEL 500 LBS

Chemicals Added Lbs. CAUSTIC 200 LBS SPERRENE 150 LBS

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D. MOHNS	Core Bit	Serial
Derrickman	D. BOESTIE	Reaming Bit	Serial
Cat Headman	M. LAFRENTZ	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	O. ROTTMANN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L. TRUSS		
Leaseman			

REMARKS	FROM	TO
DRILL	9:00	8:45
RIG SERO, CHECK B.O.P. & SURVEY	8:45	9:00
TRIP FOR BIT	9:00	12:15
DRILL	12:15	4:00

Drilled From 3103 To 3165 Hole Made 62

Bit No.	8		No. Stds.	46-5	Length 2810.43
Serial No.	94446		No. D.C.'s	11	Length 318.11
Bit Size	7 7/8				Length
Bit Type	OSC				Length
Dr. from	3082		Kelly in =		36.46
Dr. to	3165		TOTAL =		3165.00
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	349	Serv. Time
Total Bit Footage	83		C.S.G. Size	8 5/8	Rep. Time
Bit Hrs.	11 3/4		Pipe in Hole	93 Jts.	REMARKS:
Table R.P.M.	100		Pipe on Racks	32 Jts.	
Depth		Deviation	Total Pipe on Lease	125 Jts.	
Depth		Deviation			
Depth		Deviation			
Depth		Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	11.1	100	70	600	7/4	
5	11.2	100	70	600	3/4	
6	11.1	95	70	600	3/4	
7	11.	85	70	600	3/4	
8	11.	85	70	600	3/4	
9	10.9	87	70	600	3/4	
10	10.9	78	70	600	3/4	
11	10.9	78	70	600	3/4	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4

No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
1.8	3/32	12.7
2.5	3/32	12.1

Mud Added Sacks 100 LBS CAUSTIC

Chemicals Added Lbs. 50 LBS SPERSENE

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B. BRISCOE	Core Bit	Serial
Derrickman	D. ANDERSON	Reaming Bit	Serial
Cat Headman	L. DAVIDSON	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	B. ANDERSEN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	M. HACKNEY		
Leaseman			

REMARKS	FROM	TO
DRILLING	4:00	12:00

Company Representative

Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. BRIGGS TROUT RIVER #3

Date FEB 23/60 Lsd. Sec. Twp. Rge. W.

Drilled From 2842 To 2903 Hole Made 61

Bit No.	6	7
Serial No.	86751	7251
Bit Size	7 7/8	7 7/8
Bit Type	OSC-1C	OSC
Dr. from	2480	2870
Dr. to	2870	2903
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	390	33
Bit Hrs.	27 1/2	3
Table R.P.M.	100	100

Depth 2860 Deviation 6°
Depth Deviation
Depth Deviation
Depth Deviation

No. Stds. 42-5 Length 2568.91
No. D.C.'s 11 Length 318.11
Length
Length
Kelly in = 15.98
TOTAL = 2903.00
D.C.O.D. Top 6 1/4 Hrs. On Bottom 5 1/4
D.C.I.D. Top 2 7/8 Hrs. Off Bottom 2 3/4
Pipe Size 4 1/2 Trip Time 2 1/2
C.S.G. Set at 349 Serv. Time
C.S.G. Size 8 5/8 SURVEY Rep. Time 1/4
Pipe in Hole 85 Jts.
Pipe on Racks 40 Jts.
Total Pipe on Lease 125 Jts.

Diesel Fuel Meter Reading
Today
Yesterday
Consumption Gals.

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
[redacted]	10.9	85	70	600	3/4	
1	10.9	85	70	600	3/4	
2	10.9	88	70	600	3/4	
3						
4						
5						
6	10.8	105	70	600	3/4	
7	10.9	[redacted]	70	600	3/4	

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4
No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
2.2	2/32	12.5

Mud Added Sacks
Chemicals Added Lbs.

96 CREW

Driller W. SEMAK
Derrickman D. ANDERSON
Cat Headman S. ANDERSEN
Rotary Helper M. BOGSTIE
Rotary Helper
Fireman G. SANTROCK
Leaseman

MATERIALS CHARGED TO OPERATOR

Core Bit Serial
Reaming Bit Serial
Core Cutters SF. HF. Core Catchers SF. HF.
Swab Cups Swab Rubbers

REMARKS	FROM	TO
DRILL	1200	215
HOIST FOR BIT DROP SURVEY	215	500
DRILL	500	800

Drilled From 2903 To 2961 Hole Made 58

Bit No.	7
Serial No.	7251
Bit Size	7 7/8
Bit Type	OSC
Dr. from	2870
Dr. to	2961
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	91
Bit Hrs.	9 3/4
Table R.P.M.	70

Depth Deviation
Depth 2950 Deviation 6°
Depth Deviation
Depth Deviation

No. Stds. 43-5 Length 2629.39
No. D.C.'s 11 Length 318.11
Length
Length
Kelly in = 13.50
TOTAL = 2961.00
D.C.O.D. Top 6 1/4 Hrs. On Bottom 6 3/4
D.C.I.D. Top 2 7/8 Hrs. Off Bottom 1 1/4
Pipe Size 4 1/2 SURVEY Rep. Time 1/2
C.S.G. Set at 349 Serv. Time 1/4
C.S.G. Size 8 5/8 Rep. Time 1/2
Pipe in Hole 87 Jts.
Pipe on Racks 38 Jts.
Total Pipe on Lease 125 Jts.

REMARKS:

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	10.9	90	70	600	3/4	
9	10.8	105	70	600	3/4	
10	10.6	90	70	600	3/4	
11	10.6	87	70	600	3/4	
12	10.6	85	70	600	3/4	
1	10.6	85	70	600	3/4	
2	10.4	85	70	600	3/4	
3	10.4	85	70	600	3/4	

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4
No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
2.8	2/32	12.5
3.0	2/32	12.5

Mud Added Sacks
Chemicals Added Lbs. CAUSTIC 100 LBS
SPERSENE 100 LBS

CREW

Driller D. MOHNS
Derrickman D. BOGSTIE
Cat Headman M. LAFRENTZ
Rotary Helper O. BOTTMANN
Rotary Helper
Fireman L. TROSS
Leaseman

MATERIALS CHARGED TO OPERATOR

Core Bit Serial
Reaming Bit Serial
Core Cutters SF. HF. Core Catchers SF. HF.
Swab Cups Swab Rubbers

REMARKS	FROM	TO
RIG SERV. & CHECK B.O.P.	8:00	8:15
DRILL	8:15	11:45
WORK ON MUD LINE	11:45	12:15
DRILL	12:15	2:45
SURVEY	2:45	3:15
DRILL	3:15	4:00

Drilled From 2961 To 3029 Hole Made 68

Bit No.	7
Serial No.	7251
Bit Size	7 7/8
Bit Type	OSC
Dr. from	2870
Dr. to	
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	159
Bit Hrs.	17 3/4
Table R.P.M.	90

Depth Deviation
Depth Deviation
Depth Deviation
Depth Deviation

No. Stds. 44-5 Length 2689.85
No. D.C.'s 11 Length 318.11
Length
Length
Kelly in = 21.94
TOTAL = 3029.00
D.C.O.D. Top 6 1/4 Hrs. On Bottom
D.C.I.D. Top 2 7/8 Hrs. Off Bottom
Pipe Size 4 1/2 Trip Time
C.S.G. Set at 349 Serv. Time
C.S.G. Size 8 5/8 Rep. Time
Pipe in Hole 89 Jts.
Pipe on Racks 36 Jts.
Total Pipe on Lease 125 Jts.

REMARKS:

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.3	85	70	600	3/4	
5	10.2	90	70	600	3/4	
6	10.2	90	70	600	3/4	
7	10.2	90	70	600	3/4	
8	10.2	90	70	600	3/4	
9	10.7	90	70	600	3/4	
10	10.7	95	70	600	3/4	
11	10.7	95	70	600	3/4	

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4
No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
3.2	2/32	12.0

Mud Added Sacks
Chemicals Added Lbs.

CREW

Driller B. BRISCOE
Derrickman D. ANDERSON
Cat Headman P. PAULHUS
Rotary Helper D. ANDERSEN
Rotary Helper
Fireman M. HACKNEY
Leaseman

MATERIALS CHARGED TO OPERATOR

Core Bit Serial
Reaming Bit Serial
Core Cutters SF. HF. Core Catchers SF. HF.
Swab Cups Swab Rubbers

REMARKS	FROM	TO
DRILLING	400	1200

GUTHRIE McLAREN DRILLING LTD.

Company Representative: Art Guthrie

Tool Pusher:

Well No. TROUT RIVER #3 BRIGGS

Date FEB 22/60

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Drilled From 2510 To 2643 Hole Made 133

Bit No.	6	No. Stds.	38	Length	2296.05
Serial No.	86751	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8			Length	
Bit Type	OSC-1C			Length	
Dr. from	2480	Kelly in =			28.86
Dr. to	2643	TOTAL =			2643.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	8
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	349	Serv. Time	
Total Bit Footage	163	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	10	Pipe in Hole	76 Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	100	Pipe on Racks	49 Jts.	Today	
Depth	Deviation	Total Pipe on Lease	125 Jts.	Yesterday	
Depth	Deviation			Consumption	Gals.
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12	10.5	75	70	600	1/2	
1	10.5	75	70	600	1/2	
2	10.5	75	70	600	1/2	
3	10.6	75	70	600	1/2	
4	10.6	75	70	600	1/2	
5	10.6	75	70	600	1/2	
6	10.6	78	70	600	1/2	
7	10.6	80	70	600	1/2	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4

No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
2.4	2/32	12.0
3.5	2/32	13.0

Mud Added Sacks

Chemicals Added Lbs. Caustic 100 lb. Spersene 50 lb.

CREW	
Driller	W. SEMAR
Derrickman	D. ANDERSON
Cat Headman	S. ANDERSEN
Rotary Helper	4 - BOGSTIE
Fireman	G. SANTROCK
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit — Serial

Reaming Bit — Serial

Core Cutters SF. HF. — Core Catchers SF. HF.

Swab Cups — Swab Rubbers

REMARKS	FROM	TO
DRILL	12:00	8:00

Drilled From 2643 To 2729 Hole Made 86

Bit No.	6	No. Stds.	39-5	Length	2387.15
Serial No.	86751	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8			Length	
Bit Type	OSC-1C			Length	
Dr. from	2480	Kelly in =			23.74
Dr. to	2729	TOTAL =			2729.00
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	3/4
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	349	Serv. Time	1 1/4
Total Bit Footage	249	C.S.G. Size	8 5/8	Rep. Time	SURVEY 1/2
Bit Hrs.	17 1/4	Pipe in Hole	79 Jts.	REMARKS:	
Table R.P.M.	100	Pipe on Racks	46 Jts.		
Depth 2710	Deviation 5°	Total Pipe on Lease	125 Jts.		
Depth	Deviation				
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	10.9	80	70	600	2/3	
9	10.8	80	70	600	2/3	
10	10.8	85	70	600	2/3	
11	10.9	150	70	600	2/3	✓
12	10.5	105	70	600	2/3	✓
1	10.5	85	70	600	2/3	
2	10.5	90	70	600	2/3	
3	10.6	90	70	600	2/3	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4

No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.2	2/32	12.5

Mud Added Sacks MY-LO-JEL 350 LBS GEL 700 LBS

Chemicals Added Lbs. CAUSTIC 100 LBS SPERSENE 100 LBS

CREW	
Driller	D. MOHNS
Derrickman	D. BOGSTIE
Cat Headman	M. LAFRENTZ
Rotary Helper	O. ROTTMANN
Rotary Helper	
Fireman	L. TRUSS
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit — Serial

Reaming Bit — Serial

Core Cutters SF. HF. — Core Catchers SF. HF.

Swab Cups — Swab Rubbers

REMARKS	FROM	TO
RIG SERO & CHECK BOP	8:00	8:15
DRILL	8:15	2:15
SURVEY	2:15	2:45
DRILL	2:45	4:00

Drilled From 2729 To 2842 Hole Made 113

Bit No.	6	No. Stds.	41-5	Length	2508.63
Serial No.	86751	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8			Length	
Bit Type	OSC-1C			Length	
Dr. from	2480	Kelly in =			15.26
Dr. to	2842	TOTAL =			2842.05
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	8
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	349	Serv. Time	
Total Bit Footage	362	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	25 1/4	Pipe in Hole	83 Jts.	REMARKS:	
Table R.P.M.	120	Pipe on Racks	42 Jts.		
Dep:	Deviation	Total Pipe on Lease	125 Jts.		
Depth	Deviation				
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.7	85	70	600	2/3	
5	10.8	75	70	600	2/3	
6	10.8	80	70	600	3/4	
7	10.9	70	70	600	3/4	
8	10.7	70	70	600	3/4	
9	10.7	72	70	600	3/4	
10	10.8	80	70	600	3/4	
11	10.8	75	70	600	3/4	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4

No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.6	2/32	13.0
3.0	2/32	13.0

Mud Added Sacks

Chemicals Added Lbs. 150 LBS SPERSENE

CREW	
Driller	G. BISCOE
Derrickman	D. ANDERSON
Cat Headman	L. RAULHUC
Rotary Helper	B. ANDERSEN
Rotary Helper	
Fireman	M. HACKETT
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit — Serial

Reaming Bit — Serial

Core Cutters SF. HF. — Core Catchers SF. HF.

Swab Cups — Swab Rubbers

REMARKS	FROM	TO
DRILLING.	4:00	12:00

2842
2510
332

GUTHRIE McLAREN DRILLING LTD.

Company Representative: A. W. Guthrie

Tool Pusher:

Date: FEB 21/60

W No. BRIGGS TROUT RIVER #3

d. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Day 1

Drilled From 2156 To 2296 Hole Made 140

Bit No.	5
Serial No.	80514
Bit Size	7 7/8
Bit Type	OSC-3
Dr. from	2017
Dr. to	2296
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	279
Bit Hrs.	19 1/4
Table R.P.M.	100

No. Stds.	32-5	Length	1966.09
No. D.C.'s	11	Length	318.11
		Length	
		Length	
Kelly in =			11.80
TOTAL =			2296.00
D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 3/4
D.C.I.D. Top	2 7/8	Hrs. Off Bottom	1/4
Pipe Size	4 1/2	Trip Time	
C.S.G. Set at	349	Serv. Time	
C.S.G. Size	8 5/8	SURVEY Rep. Time	1/4
Pipe in Hole	65 Jts.	Diesel Fuel Meter Reading	
Pipe on Racks	60 Jts.	Today	
Total Pipe on Lease	125 Jts.	Yesterday	
		Consumption	Gals.

Depth 2220 Deviation 6 3/4°
Depth Deviation
Depth Deviation
Depth Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12	10.5	75	70	600	3/4	
1	10.5	75	70	600	3/4	
2	10.6	75	70	600	3/4	
3	10.7	75	70	600	3/4	
4	10.5	73	70	600	3/4	
5	10.5	75	70	600	3/4	
6	10.4	77	70	600	3/4	
7	10.4	85	70	600	3/4	

No. 1 Pump Size 6 3/4 X 12 — Liner Size 6 3/4
No. 2 Pump Size 5 X 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.3	1/32	12.5

Mud Added Sacks
Chemicals Added Lbs. CAUSTIC - 100 LBS. STERSENE - 50 LBS.

CREW

Driller	W. DEMAR
Derrickman	D. ANDERSON
Cat Headman	S. ANDERSEN
Rotary Helper	H. BOGSTIE
Rotary Helper	
Fireman	G. SANTROCK
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit		Serial	
Reaming Bit		Serial	
Core Cutters SF. HF.		Core Catchers SF. HF.	
Swab Cups		Swab Rubbers	

REMARKS

FROM	TO	
1200	415	DRILL
415	430	SURVEY
430	800	DRILL

Day 2

Drilled From 2296 To 2398 Hole Made 102

Bit No.	5
Serial No.	80514
Bit Size	7 7/8
Bit Type	OSC-3
Dr. from	2017
Dr. to	2398
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	381
Bit Hrs.	26 1/2
Table R.P.M.	100

No. Stds.	34	Length	2053.23
No. D.C.'s	11	Length	318.11
		Length	
		Length	
Kelly in =			26.66
TOTAL =			2398.00
D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/4
D.C.I.D. Top	2 7/8	Hrs. Off Bottom	3/4
Pipe Size	4 1/2	Trip Time	
C.S.G. Set at	349	Serv. Time	
C.S.G. Size	8 5/8	Rep. Time	
Pipe in Hole	68 Jts.	REMARKS:	
Pipe on Racks	57 Jts.		
Total Pipe on Lease	125 Jts.		

Depth 2320 Deviation 6 1/2°
Depth Deviation
Depth Deviation
Depth Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	10.4	105	70	600	3/4	
9	10.4	125	70	600	3/4	
10	10.5	128	70	600	3/4	
11	10.5	128	70	600	3/4	
12	10.5	125	70	600	3/4	
1	10.5	125	70	600	1/2	
2	10.5	75	70	600	1/2	
3	10.5	85	70	600	1/2	

No. 1 Pump Size 6 3/4 X 12 — Liner Size 6 3/4
No. 2 Pump Size 5 X 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.4	2/32	12.5

Mud Added Sacks ML-LO-JEL 300 LBS
Chemicals Added Lbs. CAUSTIC 200 LBS

CREW

Driller	D. MOHNS
Derrickman	D. BOGSTIE
Cat Headman	M. LAFFRENTZ
Rotary Helper	O. ROTTMANN
Rotary Helper	
Fireman	L. TRUSS
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit		Serial	
Reaming Bit		Serial	
Core Cutters SF. HF.		Core Catchers SF. HF.	
Swab Cups		Swab Rubbers	

REMARKS

FROM	TO	
8:00	9:45	DRILL
9:45	10:30	SURVEY. RIG SERV. & CHECK B.O.P
10:30	4:00	DRILL

Day 3

Drilled From 23[illegible]8 To 2510 Hole Made 112

Bit No.	5	
Serial No.	X0514	80514
Bit Size	7 7/8	7 7/8
Bit Type	OSC-3	OSC-1G
Dr. from	2017	2480
Dr. to	2480	2510
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	463	30
Bit Hrs.	30 1/2	2
Table R.P.M.	125	100

No. Stds.	36	Length	2174.38
No. D.C.'s	11	Length	318.11
		Length	
		Length	
Kelly in =			17.51
TOTAL =			2510.00
D.C.O.D. Top	6 1/4	Hrs. On Bottom	
D.C.I.D. Top	2 7/8	Hrs. Off Bottom	
Pipe Size	4 1/2	Trip Time	
C.S.G. Set at	349	Serv. Time	
C.S.G. Size	8 5/8	Rep. Time	
Pipe in Hole	Jts.	REMARKS:	
Pipe on Racks	Jts.		
Total Pipe on Lease	Jts.		

Depth 2480 Deviation 5 3/4°
Depth Deviation
Depth Deviation
Depth Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.3	70	70	600	1/2	
5	10.3	70	70	600	1/2	
6	10.3	70	70	600	1/2	
7	10.3	80	70	600	1/2	
8	10.3	80	70	600	1/2	
9						
10						
11	10.3	75	70	600	1/2	

No. 1 Pump Size 6 3/4 X 12 — Liner Size 6 3/4
No. 2 Pump Size 5 X 10 — Liner Size 5

Water-Loss	Filter Cake	PH
2.4	2/32	13.0

Mud Added Sacks
Chemicals Added Lbs.

CREW

Driller	B. BAISCOE
Derrickman	D. ANDERSON
Cat Headman	D. PAULUS
Rotary Helper	B. ANDERSEN
Rotary Helper	
Fireman	M. HACKNEY
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit		Serial	
Reaming Bit		Serial	
Core Cutters SF. HF.		Core Catchers SF. HF.	
Swab Cups		Swab Rubbers	

REMARKS

FROM	TO	
400	800	DRILLING.
800	815	DROP SURVEY.
815	1000	TRIP FOR BIT.
1000	1200	DRILLING.

GUTHRIE McLAREN DRILLING LTD.

Company Representative

Tool Pusher

Well No. BRIGGS TROUT RIVER 3

Date FEB 20/60

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

Report 1

Drilled From 1934 To 2010 Hole Made 76

Bit No.	4	No. Stds. 27-5	Length 1663.12
Serial No.	95263	No. D.C.'s 11	Length 318.11
Bit Size	7 7/8		Length
Bit Type	OSC-3		Length
Dr. from	1642	Kelly in =	28.27
Dr. to	2010	TOTAL =	2010.00
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 349	Serv. Time
Total Bit Footage	368	C.S.G. Size 8 5/8	Rep. Time
Bit Hrs.	28 3/4	Pipe in Hole 55 Jts.	Diesel Fuel Meter Reading
Table R.P.M.	150	Pipe on Racks 70 Jts.	Today
			Yesterday
			Consumption Gals.

Depth 1990 Deviation 7 1/4°
Depth Deviation
Depth Deviation
Depth Deviation

Total Pipe on Lease 125 Jts.

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12	10.5	95	70	600	3/4	
1	10.5	100	70	600	3/4	
2	10.5	100	70	600	3/4	
3	10.4	110	70	600	3/4	
4	10.4	110	70	600	3/4	
5	10.4	87	70	600	3/4	
6	10.4	85	70	600	3/4	
7	10.3	77	70	600	3/4	

No. 1 Pump Size 6 3/4 X 12 — Liner Size 6 3/4
No. 2 Pump Size 5 X 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.4	2/32	12.5
2.6	2/32	13.0

Mud Added Sacks

Chemicals Added Lbs. 300 LBS SPERSENE

CREW

Driller	B. BRISCOE
Derrickman	D. ANDERSON
Cat Headman	J. PAULHUS
Rotary Helper	B. ANDERSEN
Rotary Helper	
Fireman	M. HACKNEY
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS

	FROM	TO
DRILLING	12:00	5:45
RUN SURVEY	5:45	6:15
DRILLING	6:15	8:00

Report 2

Drilled From 2010 To 2077 Hole Made 67

Bit No.	4	5	
Serial No.	95263	80514	
Bit Size	7 7/8	7 7/8	
Bit Type	OSC-3	OSC-3	
Dr. from	1934	2017	
Dr. to	2017	2077	
Cored from			
Cored to			
Reamed from			
Reamed to			
Total Bit Footage	375	60	
Bit Hrs.	29 3/4	5 3/4	
Table R.P.M.	150	100	

No. Stds.	57	Length	1723.83
No. D.C.'s	11	Length	318.11
		Length	
		Length	
Kelly in =			35.06
TOTAL =			2077.00
D.C.O.D. Top	6 1/4	Hrs. On Bottom	
D.C.I.D. Top	2 7/8	Hrs. Off Bottom	
Pipe Size	4 1/2	Trip Time	
C.S.G. Set at	349	Serv. Time	
C.S.G. Size	8 5/8	Rep. Time	
Pipe in Hole	57 Jts.	REMARKS:	
Pipe on Racks	68 Jts.		

Depth 2010 Deviation 7°
Depth Deviation
Depth Deviation
Depth Deviation

Total Pipe on Lease 125 Jts.

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	10.3	70	70	600	3/4	
9	10.3	70	70	600	3/4	
10	T	R	I	P		
11						
12	10.8	72	70	600	3/4	
1	10.8	75	70	600	3/4	
2	10.7	70	70	600	3/4	
3	10.7	70	70	600	3/4	

No. 1 Pump Size 6 3/4 X 12 — Liner Size 6 3/4
No. 2 Pump Size 5 X 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.2	1/32	12.5

Mud Added Sacks MY-GO-GEL — 100 1135. GEL — 500 LBS.

Chemicals Added Lbs.

CREW

Driller	W. SEMAR
Derrickman	D. ANDERSON
Cat Headman	S. ANDERSEN
Rotary Helper	H. BOGSTIE
Rotary Helper	
Fireman	G. SANTROCK
Leaseman	C. GRAY

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS

	FROM	TO
DRILL	8:00	9:00
TRIP FOR BIT DROP SURVEY	9:00	11:15
DRILL	11:15	4:00

Report 3

Drilled From 2077 To 2156 Hole Made 79

Bit No.	5	No. Stds. ~~30~~	Length ~~1784.60~~ 1815.15
Serial No.	80514	No. D.C.'s 11	Length 318.11
Bit Size	7 7/8		Length
Bit Type	OSC-3		Length
Dr. from	2017	Kelly in =	22.74
Dr. to	2156	TOTAL =	2156.00
Cored from		D.C.O.D. Top 6 1/4	Hrs. On Bottom 6 3/4
Cored to		D.C.I.D. Top 2 7/8	Hrs. Off Bottom 1 1/4
Reamed from		Pipe Size 4 1/2	Trip Time
Reamed to		C.S.G. Set at 349	Serv. Time
Total Bit Footage	139	C.S.G. Size 8 5/8	Rep. Time 3/4
Bit Hrs.	11 1/2	Pipe in Hole 60 Jts.	REMARKS:
Table R.P.M.	100	Pipe on Racks 65 Jts.	

Depth 2140 Deviation 7°
Depth Deviation
Depth Deviation

Total Pipe on Lease 125 Jts.

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.9	105	70	600	3/4	
5	10.9	115	70	600	3/4	✓
6	10.9	125	70	600	3/4	✓
7	10.9	125	70	600	3/4	✓
8	10.9	125	70	600	3/4	✓
9	10.7	105	70	600	3/4	✓
10	10.7	105	70	600	3/4	✓
11	10.6	78	70	600	3/4	

No. 1 Pump Size 6 3/4 X 12 — Liner Size 6 3/4
No. 2 Pump Size 5 X 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.0	2/32	12.5
3.2	2/32	12.5

Mud Added Sacks

Chemicals Added Lbs. CAUSTIC 150 LBS
SPERSENE 100 LBS

CREW

Driller	D. MOHNS
Derrickman	D. BOGSTIE
Cat Headman	M. LAFRENTZ
Rotary Helper	C. ROTTMANN
Rotary Helper	
Fireman	L. TRUSS
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS

	FROM	TO
DRILL	4:00	6:45
WORK ON AIR LINES	6:45	7:30
DRILL	7:30	10:15
SURVEY	10:15	10:45
DRILL	10:45	12:00

A. W. Lutting
Company Representative

Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. BP. GGS TROUT RIVER 3A

Date FEB 19/60

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Drilled From 1642 To 1810 Hole Made 158

Bit No.	4	No. Stds.	24	Length	1452.39
Serial No.	95263	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8			Length	
Bit Type	OSC-3			Length	
Dr. from	1642	Kelly in =			39.50
Dr. to	1810	TOTAL =			1810.00
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	349	Serv. Time	
Total Bit Footage	158	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	6 1/2	Pipe in Hole	48 Jts.	Diesel Fuel Meter Reading	
Table R.P.M.	120	Pipe on Racks	77 Jts.	Today	
Depth 1642	Deviation 4 1/2°	Total Pipe on Lease	125 Jts.	Yesterday	
Depth	Deviation			Consumption	Gals.
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12						
1	10.7					
2						
3			M & D			
4						
5						
6						✓
7	11.	100	70	600	1/2	✓

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss | Filter Cake | PH

Mud Added Sacks: CAUSTIC 200 LBS; MY-LO-GEL-400 LBS
Chemicals Added Lbs.: SPERSENE-400 LBS; GEL-800 LBS.

CREW		MATERIALS CHARGED TO OPERATOR		
Driller	B. BISCOE	Core Bit	Serial	
Derrickman	D. ANDERSEN	Reaming Bit	Serial	
Cat Headman	J. GAILHOS	Core Cutters SF. HF.	Core Catchers SF. HF.	
Rotary Helper	B. ANDERSEN	Swab Cups	Swab Rubbers	
Rotary Helper				
Fireman	M. HACKNEY			
Leaseman				

REMARKS	FROM	TO
HOISTE RUN IN W/ BIT	12:00	1:30
DRILLING	1:30	8:00

Drilled From 1810 To 1886 Hole Made 76

Bit No.	4	No. Stds.	25-S	Length	1541.87
Serial No.	95263	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8			Length	
Bit Type	OSC-3			Length	
Dr. from	1642	Kelly in =			26.05
Dr. to	1886	TOTAL =			1886.00
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	349	Serv. Time	
Total Bit Footage	234	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	13 3/4	Pipe in Hole	51 Jts.	REMARKS:	
Table R.P.M.	120	Pipe on Racks	74 Jts.		
Depth 1810	Deviation 8°	Total Pipe on Lease	125 Jts.		
Depth 1886	Deviation 7 1/2°				
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	11.	100	70	600	1/2	✓
9	10.9	85	70	600	1/2	✓
10	10.7	70	70	600	1/2	
11	10.7	65	70	600	1/2	
12	10.7	65	70	600	1/2	
1	10.7	63	70	600	1/2	
2	10.8	60	70	600	1/2	
3	10.8	60	70	600	1/2	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss: 2.8 | Filter Cake: 1/32 | PH: 12.5

Mud Added Sacks:
Chemicals Added Lbs.: CAUSTIC-150 LBS; SPERSENE-300 LBS

CREW		MATERIALS CHARGED TO OPERATOR		
Driller	W. SEMAK	Core Bit	Serial	
Derrickman	D. ANDERSON	Reaming Bit	Serial	
Cat Headman	S. ANDERSEN	Core Cutters SF. HF.	Core Catchers SF. HF.	
Rotary Helper	H. BOGSTIE	Swab Cups	Swab Rubbers	
Rotary Helper				
Fireman	C. SANTROCK			
Leaseman	C. GRAY			

REMARKS	FROM	TO
DRILL	8:00	9:15
RIGSERVICE CHECK B.O.P. SURVEY	9:15	~~9:45~~
DRILL	~~9:45~~	~~3:45~~
SURVEY	3:45	4:00

Drilled From 1886 To 1934 Hole Made 48

Bit No.	4	No. Stds.	26-S	Length	1602.54
Serial No.	95263	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8			Length	
Bit Type	OSC-3			Length	
Dr. from	1642	Kelly in =			13.35
Dr. to	1934	TOTAL =			1934.00
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/2
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	1/2
Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	349	Serv. Time	
Total Bit Footage	292	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	21 1/4	Pipe in Hole	53 Jts.	REMARKS:	
Table R.P.M.	100	Pipe on Racks	72 Jts.		
Depth	Deviation	Total Pipe on Lease	125 Jts.		
Depth 1930	Deviation 7 1/2°				
Depth	Deviation				
Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.7	60	70	600	1/2	
5	10.7	60	70	600	1/2	
6	10.7	63	70	600	1/2	
7	10.7	68	70	600	1/2	
8	10.7	95	70	600	1/2	
9	10.7	95	70	600	1/2	
10	10.6	95	70	600	1/2	
11	10.5	95	70	600	1/2	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss: 2.6 | 2.8 | Filter Cake: 2/32 | 2/32 | PH: 12.5 | 12.5

Mud Added Sacks: GEL- 300 LBS
Chemicals Added Lbs.: CAUSTIC 300 LBS; SPERSENE 500 LBS

CREW		MATERIALS CHARGED TO OPERATOR		
Driller	D. MOHNS	Core Bit	Serial	
Derrickman	D. BOGSTIE	Reaming Bit	Serial	
Cat Headman	M. LAFRENTZ	Core Cutters SF. HF.	Core Catchers SF. HF.	
Rotary Helper	O. ROTTMANN	Swab Cups	Swab Rubbers	
Rotary Helper				
Fireman	L. TRUSS			
Leaseman				

REMARKS	FROM	TO
DRILL	4:00	10:45
SURVEY	10:45	11:15
DRILL	11:15	12:00

GUTHRIE McLAREN DRILLING LTD.

Company Representative: W. J. Miller — Tool Pusher

Well No. BRIGGS TROUT RIVER 3#

Date FEB 18/60

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Drilled From 1087 To 1278 Hole Made 191

Bit No.	2	3
Serial No.	74463	95302
Bit Size	7 7/8	7 7/8
Bit Type	OSC	OSC-3
Dr. from	771	1185
Dr. to	1185	1278
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	414	93
Bit Hrs.	22	2
Table R.P.M.	175	185

Depth 1185 Deviation 0°
Depth ____ Deviation ____
Depth ____ Deviation ____

No. Stds. 15-S Length 939.51
No. D.C.'s Length 318.11
Length
Length
Kelly in = 20.38
TOTAL = 1278.00

D.C.O.D. Top 6 1/4 Hrs. On Bottom
D.C.I.D. Top 2 7/8 Hrs. Off Bottom
Pipe Size 4 1/2 Trip Time
C.S.G. Set at 349 Serv. Time
C.S.G. Size 8 5/8 Rep. Time
Pipe in Hole 31 Jts.
Pipe on Racks 94 Jts.
Total Pipe on Lease 125 Jts.

Diesel Fuel Meter Reading
Today
Yesterday
Consumption Gals.

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12	10.1	80	90	500	3/4	
1	10.1	85	90	500	3/4	
2	10.1	85	90	500	3/4	
3	10.1	85	90	500	3/4	
4	10.1	90	90	500	3/4	
5						
6	9.8	100	90	500	3/4	
7	9.8	100	90	100	3/4	

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4
No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
3.4	2/32	12.5

Mud Added Sacks
Chemicals Added Lbs.

CREW
Driller R. BRISCOE
Derrickman D. ANDERSON
Cat Headman J. DAUPHUS
Rotary Helper B. ANDERSEN
Fireman M. HACKNEY
Leaseman

MATERIALS CHARGED TO OPERATOR
Core Bit Serial
Reaming Bit Serial
Core Cutters SF. HF. Core Catchers SF. HF.
Swab Cups Swab Rubbers

REMARKS	FROM	TO
DRILLING.	1200	445
DROP SURVEY	445	500
TRIP FOR BIT	500	600
DRILLING	600	800

Drilled From 1278 To 1504 Hole Made 226

Bit No.	3	
Serial No.	95302	
Bit Size	7 7/8	
Bit Type	OSC-3	
Dr. from	1185	
Dr. to	1504	
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	319	
Bit Hrs.	8 3/4	
Table R.P.M.	150	

Depth ____ Deviation ____
Depth ____ Deviation ____
Depth ____ Deviation ____

No. Stds. 19 Length 1150.37
No. D.C.'s 11 Length 318.11
Length
Length
Kelly in = 35.52
TOTAL = 1504.00

D.C.O.D. Top 6 1/4 Hrs. On Bottom 6 3/4
D.C.I.D. Top 2 7/8 Hrs. Off Bottom 1 1/4
Pipe Size 4 1/2 Trip Time
C.S.G. Set at 349 Serv. Time 1/4
C.S.G. Size 8 5/8 Rep. Time 1
Pipe in Hole 38 Jts.
Pipe on Racks 87 Jts.
Total Pipe on Lease 125 Jts.

REMARKS:

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	10.	100	70	600	3/4	
9	10.1	100	70	600	3/4	
10	10.2	105	70	600	3/4	
11	10.	70	70	600	3/4	
12	9.8	65	70	600	3/4	
1	9.8	80	70	600	3/4	
2	9.9	80	70	600	3/4	
3	10.1	75	70	600	3/4	

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4
No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
3.2	3/32	12.5
3.4	3/32	12.5

Mud Added Sacks
Chemicals Added Lbs. SPERSENE - 100 LBS. CAUSTIC - 50 LBS.

CREW
Driller W. SEMAK
Derrickman D. ANDERSON
Cat Headman S. ANDERSEN
Rotary Helper H. BOGSTIE
Rotary Helper
Fireman G. SANTROCK
Leaseman C. GRAY

MATERIALS CHARGED TO OPERATOR
Core Bit Serial
Reaming Bit Serial
Core Cutters SF. HF. Core Catchers SF. HF.
Swab Cups Swab Rubbers

REMARKS	FROM	TO
DRILL	800	830
RIG SERVICE CHECK B.O.P.S		
WELD ON STAND PIPE	830	915
DRILL	915	330
WORK ON GOOSENECK	330	400

Drilled From 1504 To 1642 Hole Made 138

Bit No.	3	
Serial No.	95302	
Bit Size	7 7/8	
Bit Type	OSC-3	
Dr. from	1185	
Dr. to	1642	
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	457	
Bit Hrs.	16	
Table R.P.M.	150	

Depth ____ Deviation ____
Depth 1642 Deviation 4 1/2°
Depth ____ Deviation ____

No. Stds. 21-S Length 1301.94
No. D.C.'s 11 Length 318.11
Length
Length
Kelly in = 21.95
TOTAL = 1642.00

D.C.O.D. Top 6 1/4 Hrs. On Bottom 7 1/4
D.C.I.D. Top 2 7/8 Hrs. Off Bottom 3/4
Pipe Size 4 1/2 Trip Time 1/2
C.S.G. Set at 349 Serv. Time
C.S.G. Size 8 5/8 Rep. Time
Pipe in Hole 43 Jts.
Pipe on Racks 82 Jts.
Total Pipe on Lease 125 Jts.

REMARKS:

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.2	75	70	600	3/4	
5	10.2	75	70	600	3/4	
6	10.2	75	70	600	3/4	
7	10.2	75	70	600	3/4	
8	10.3	95	70	600	3/4	
9	10.3	85	70	600	3/4	
10	10.4	85	70	600	3/4	
11	10.4	85	70	600	3/4	

No. 1 Pump Size 6 3/4 x 12 Liner Size 6 3/4
No. 2 Pump Size 5 x 10 Liner Size 5

Water-Loss	Filter Cake	PH
3.6	3/32	12.5
3.8	3/32	12.5

Mud Added Sacks 8 Sacks Gel
Chemicals Added Lbs.

CREW
Driller D. MOHNS
Derrickman D. BOGSTIE
Cat Headman M. LAFRENTZ
Rotary Helper O. ROTTMANN
Rotary Helper
Fireman L. TRUSS
Lerseman

MATERIALS CHARGED TO OPERATOR
Core Bit Serial
Reaming Bit Serial
Core Cutters SF. HF. Core Catchers SF. HF.
Swab Cups Swab Rubbers

REMARKS	FROM	TO
DRILL	400	1115
DROP SURVEY	1115	1130
HOIST PIPE	1130	1200

GUTHRIE McLAREN DRILLING LTD.

[illegible signature] — Company Representative
W. Miller — Tool Pusher

Well No. BRIGGS TROUT RIVER 3#
Date FEB 17/60
Lsd. ______ Sec. ______ Twp. ______ Rge. ______ W. ______

Drilled From 671 To 824 Hole Made 153

Bit No.	1	2
Serial No.	94449	94463
Bit Size	7 7/8	7 7/8
Bit Type	OSC	OSC
Dr. from	358	771
Dr. to	771	824
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	413	53
Bit Hrs.	19 3/4	2 1/2
Table R.P.M.	150	150

No. Stds.	~~8~~ 6	Length	484.06
No. D.C.'s	11	Length	318.11
		Length	
		Length	
Kelly in =			21.83
TOTAL =			824.00
D.C.O.D. Top	6 1/4	Hrs. On Bottom	
D.C.I.D. Top	2 1/4	Hrs. Off Bottom	
Pipe Size	4 1/2	Trip Time	
C.S.G. Set at	349	Serv. Time	
C.S.G. Size	8 5/8	Rep. Time	
Pipe in Hole	16 Jts.		
Pipe on Racks	109 Jts.		
Total Pipe on Lease	125 Jts.		

Diesel Fuel Meter Reading: Today ______ Yesterday ______ Consumption ______ Gals.

Depth	Deviation
770	3/4

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12	10.	50		500	1/2	
1	10.	50		500	1/2	
2	10.	50		500	1/2	
3	10	45		500	1/2	
4	10.	45		500	1/2	
5	10.	–		500		
6	10.	45		500		
7	10	45		500	1/2	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH

Mud Added Sacks:
Chemicals Added Lbs. 120 lbs SPERSENE, 300 lbs CAUSTIC

CREW

- Driller: B. BRISCOE
- Derrickman: D. ANDERSON
- Cat Headman: L. PAULHUS
- Rotary Helper: B. ANDERSEN
- Rotary Helper:
- Fireman: M. HACKNEY
- Leaseman:

MATERIALS CHARGED TO OPERATOR

Core Bit ______ Serial ______
Reaming Bit ______ Serial ______
Core Cutters SF. HF. ______ Core Catchers SF. HF. ______
Swab Cups ______ Swab Rubbers ______

REMARKS	FROM	TO
DRILLING	12:00	4:15
DROP SURVEY	4:15	4:30
TRIP FOR BIT	4:30	5:30
DRILLING	5:30	8:00

Drilled From 824 To 961 Hole Made 137

Bit No.	2	
Serial No.	94463	
Bit Size	7 7/8	
Bit Type	OSC	
Dr. from	771	
Dr. to	961	
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	190	
Bit Hrs.	9 3/4	
Table R.P.M.	150	

No. Stds.	10-5	Length	635.55
No. D.C.'s	11	Length	318.11
		Length	
		Length	
Kelly in =			07.34
TOTAL =			961.00
D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/4
D.C.I.D. Top	2 7/8	Hrs. Off Bottom	3/4
Pipe Size	4 1/2	Trip Time	
C.S.G. Set at	349	Serv. Time	1/4
C.S.G. Size	8 5/8	SURVEY ~~Rep.~~ Time	1/4
Pipe in Hole	21 Jts.		
Pipe on Racks	104 Jts.		
Total Pipe on Lease	125 Jts.		

REMARKS:

Depth	Deviation
960	1°

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8	10.	45	70	500	3/4	
9	10.1	48	70	500	3/4	
10	10.2	50	70	500	3/4	
11	10.2	75	70	500	3/4	
12	10.2	90	70	500	3/4	
1	10.3	100	70	500	3/4	
2	10.3	85	70	500	3/4	
3	10.3	80	70	500	3/4	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
12.	2/32	13.0

Mud Added Sacks: STARCH 1000#
Chemicals Added Lbs. SPERSENE 50#, CAUSTIC 50#

CREW

- Driller: W. SEMAK
- Derrickman: D. ANDERSON
- Cat Headman: S. ANDERSEN
- Rotary Helper: H. BOESTIE
- Rotary Helper:
- Fireman: G. SANTROCK
- Leaseman: C. GRAY

MATERIALS CHARGED TO OPERATOR

Core Bit ______ Serial ______
Reaming Bit ______ Serial ______
Core Cutters SF. HF. ______ Core Catchers SF. HF. ______
Swab Cups ______ Swab Rubbers ______

REMARKS	FROM	TO
RIG SERVICE CHECK B.O.P.S OK	8:00	8:15
DRILL	8:15	3:00
SURVEY & PULL MOUSE HOLE	3:00	3:30
DRILL	3:30	4:00

Drilled From 961 To 1087 Hole Made 126

Bit No.	2	
Serial No.	94463	
Bit Size	7 7/8	
Bit Type	OSC.	
Dr. from	771	
Dr. to	1087	
Cored from		
Cored to		
Reamed from		
Reamed to		
Total Bit Footage	316	
Bit Hrs.	17 1/4	
Table R.P.M.	150	

No. Stds.	12-5	Length	756.66
No. D.C.'s	11	Length	318.11
		Length	
		Length	
Kelly in =			12.23
TOTAL =			1087.00
D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/2
D.C.I.D. Top	2 7/8	Hrs. Off Bottom	1/2
Pipe Size	4 1/2	Trip Time	
C.S.G. Set at	349	Serv. Time	
C.S.G. Size	8 5/8	Rep. Time	1/2
Pipe in Hole	25 Jts.		
Pipe on Racks	100 Jts.		
Total Pipe on Lease	125 Jts.		

REMARKS:

Depth	Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4	10.3	95	70	500	3/4	
5	10.1	85	70	500	3/4	
6	10.1	80	70	500	3/4	
7	10.0	68	70	500	3/4	
8	10.0	65	70	500	3/4	
9	10.0	65	70	500	3/4	
10	10.0	65	70	500	3/4	
11	10.1	75	70	500	3/4	

No. 1 Pump Size 6 3/4 x 12 — Liner Size 6 3/4
No. 2 Pump Size 5 x 10 — Liner Size 5

Water-Loss	Filter Cake	PH
3.8	2/32	13.0
3.0	2/32	13.0

Mud Added Sacks: 800# CEL.
Chemicals Added Lbs.

CREW

- Driller: D. MOHNS
- Derrickman: D. BOESTIE
- Cat Headman: M. LAFRENTZ
- Rotary Helper: O. ROTTMANN
- Rotary Helper:
- Fireman: L. TROSS
- Leaseman:

MATERIALS CHARGED TO OPERATOR

Core Bit ______ Serial ______
Reaming Bit ______ Serial ______
Core Cutters SF. HF. ______ Core Catchers SF. HF. ______
Swab Cups ______ Swab Rubbers ______

REMARKS	FROM	TO
DRILL	4:00	4:30
WORK ON AIR LINES	4:30	5:00
DRILL	5:00	12:00

GUTHRIE McLAREN DRILLING LTD.

Company Representative: A. C. Whitney

Tool Pusher:

Well No. BRIGGS TROUT RIVER 3#

Date FEB 16/60

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Report 1

Drilled From 358 To 388 Hole Made 30

Bit No.	1
Serial No.	94449
Bit Size	7 7/8
Bit Type	OSC
Dr. from	358
Dr. to	388
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	30
Bit Hrs.	1
Table R.P.M.	150

No. Stds.	1 SINGLE Length 30.03
No. D.C.'s	Length 318.11
	Length
	Length
Kelly in =	39.86
TOTAL =	388.00
D.C.O.D. Top	6 1/4 Hrs. On Bottom
D.C.I.D. Top	2 7/8 Hrs. Off Bottom
Pipe Size	4 1/2 Trip Time
C.S.G. Set at	349 Serv. Time
C.S.G. Size	8 5/8 Rep. Time
Pipe in Hole	Jts.
Pipe on Racks	Jts.
Total Pipe on Lease	Jts.

Diesel Fuel Meter Reading: Today ____ Yesterday ____ Consumption ____ Gals.

Depth ____ Deviation ____
Depth ____ Deviation TOTCO RING ON BIT.
Depth ____ Deviation NO FLOAT ON.
Depth ____ Deviation ____

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12						
1						
2						
3						
4						
5						
6						
7						

No. 1 Pump Size 6 3/4 X 12 Liner Size 6 3/4
No. 2 Pump Size 5 X 10 Liner Size 5

Water-Loss	Filter Cake	PH

Mud Added Sacks =
Chemicals Added Lbs.

CREW	
Driller	B. BISCOE
Derrickman	D. ANDERSON
Cat Headman	P. GULLHUS
Rotary Helper	B. ANDERSEN
Rotary Helper	
Fireman	M. HACKNEY
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
NIPPLE UP.	12:00	4:00
DIG MOUSE HOLE.		
GUN IN HOLE.		
PRESSURE UP.		
DRILL OUT PLUG.		
DRILLING 7 7/8 HOLE.		
PRESSURED UP UNDER SHOE 380 PSI.		
CHECKED BOPS TO 600 PSI HELD OK FOR 10 MIN		
TOP OF PLUG - 380 - KB		

Report 2

Drilled From 388 To 530 Hole Made 142

Bit No.	1
Serial No.	94449
Bit Size	7 7/8
Bit Type	OSC
Dr. from	358
Dr. to	530
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	172
Bit Hrs.	8
Table R.P.M.	100

No. Stds.	3 Length 181.10
No. D.C.'s	11 Length 318.11
	Length
	Length
Kelly in =	30.79
TOTAL =	530.00
D.C.O.D. Top	6 1/4 Hrs. On Bottom 7
D.C.I.D. Top	2 7/8 Hrs. Off Bottom 1
Pipe Size	4 1/2 Trip Time
C.S.G. Set at	349 Serv. Time
C.S.G. Size	8 5/8 Rep. Time
Pipe in Hole	6 Jts.
Pipe on Racks	119 Jts.
Total Pipe on Lease	125 Jts.

REMARKS:

Depth ____ Deviation ____
Depth ____ Deviation ____
Depth ____ Deviation ____
Depth ____ Deviation ____

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8						
9						
10		MIX MUD				
11						
12						
1						
2						
3						

No. 1 Pump Size 6 3/4 X 12 Liner Size 6 3/4
No. 2 Pump Size 5 X 10 Liner Size 5

Water-Loss	Filter Cake	PH

Mud Added Sacks 2500# GEL
Chemicals Added Lbs. 100# BICARB

CREW	
Driller	W. SEMAK
Derrickman	D. ANDERSON
Cat Headman	S. ANDERSEN
Rotary Helper	H. BOGSTIE
Rotary Helper	
Fireman	G. SANTROCK
Leaseman	C. GRAY

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
RIG SERVICE	800	815
DRILL	815	930
JET MUD TANK & ON FUELLINE	930	1000
DRILL	1000	130
WELD ON GOOSENECK	130	145
DRILL	145	400

Report 3

Drilled From 530 To 671 Hole Made 141

Bit No.	1
Serial No.	94449
Bit Size	7 7/8
Bit Type	OSC
Dr. from	358
Dr. to	671
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	313
Bit Hrs.	15 1/2
Table R.P.M.	100

No. Stds.	5-5 Length 333.02
No. D.C.'s	11 Length 318.11
	Length
	Length
Kelly in =	19.87
TOTAL =	671.00
D.C.O.D. Top	6 1/4 Hrs. On Bottom 7 1/2
D.C.I.D. Top	2 7/8 Hrs. Off Bottom 1/2
Pipe Size	4 1/2 Trip Time
C.S.G. Set at	349 Serv. Time
C.S.G. Size	8 5/8 Rep. Time 1/2
Pipe in Hole	11 Jts.
Pipe on Racks	114 Jts.
Total Pipe on Lease	125 Jts.

REMARKS:

Depth ____ Deviation ____
Depth ____ Deviation ____
Depth ____ Deviation ____
Depth ____ Deviation ____

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4		45				
5		60			1/4	✓
6		55			1/4	✓
7		35			1/4	✓
8		43			1/4	✓
9		52			1/4	
10						
11						

No. 1 Pump Size 6 3/4 X 12 Liner Size 6 3/4
No. 2 Pump Size 5 X 10 Liner Size 5

Water-Loss	Filter Cake	PH

Mud Added Sacks 1100 # GEL
Chemicals Added Lbs. 200 # CAUSTIC
200 # SPERSENE

CREW	
Driller	D. MOHNS
Derrickman	D. BOGSTIE
Cat Headman	M. LAFRENTZ
Rotary Helper	O. ROTTMANN
Rotary Helper	
Fireman	L. TRUSS
Leaseman	

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
DRILL	4:00	9:45
WORK ON PUMP	9:45	10:15
DRILL	10:15	12:00

Company Representative: A. R. Whitney

Tool Pusher:

GUTHRIE McLAREN DRILLING LTD.

Well No. BRIGGS TROUT RIVER 32

Date FEB 15/60

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Tour 1

Drilled From ____ To ____ Hole Made ____

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 349	Serv. Time
Total Bit Footage		C.S.G. Size	Rep. Time
Bit Hrs.		Pipe in Hole Jts.	Diesel Fuel Meter Reading
Table R.P.M.		Pipe on Racks Jts.	Today
		Total Pipe on Lease Jts.	Yesterday
Depth	Deviation		Consumption Gals.
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

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

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B BISCOE LS	Core Bit	Serial
Derrickman	D ANDERSON	Reaming Bit	Serial
Cat Headman	L PAULHUS	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	B ANDERSEN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	M. HACKNEY		
Leaseman			

REMARKS	FROM	TO
(c) - O.C	12:00	8:00

Tour 2

Drilled From ____ To ____ Hole Made ____

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

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

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	W. SEMAK	Core Bit	Serial
Derrickman	D. ANDERSON	Reaming Bit	Serial
Cat Headman	S. ANDERSEN	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	H. BOGSTIE	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	G. SANTROCK		
Leaseman	C. GRAY		

REMARKS	FROM	TO
W.O.C.	8:00	12:00
SLACK OFF CASING PUT ON CASING BOWL	12:00	4:00

Tour 3

Drilled From ____ To ____ Hole Made ____

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

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size / Liner Size	No. 2 Pump Size / Liner Size
4								
5							Water-Loss	Filter Cake / PH
6								
7								
8								
9							Mud Added Sacks 400 # BICARB.	
10							Chemicals Added Lbs.	
11								

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D MOHNS	Core Bit	Serial
Derrickman	D. BOGSTIE	Reaming Bit	Serial
Cat Headman	M. LAFRENTZ	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	O. ROTTMANN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L. TRUSS		
Leaseman			

REMARKS	FROM	TO
HEAD UP	4:00	12:00

GUTHRIE McLAREN DRILLING LTD.

Company Representative

Tool Pusher

Well No. BRIGGS [redacted] TROUT RIVER 3

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

Date FEB 14/60

Run 1

Drilled From 308 To 358 Hole Made 50

REAMER - 275 300 25

Bit No.	1B	1A
Serial No.	D94; 40-RR	12
Bit Size	7 7/8	12 1/4
Bit Type	451	OSC-3
Dr. from	275	220
Dr. to	358	275
Cored from		
Cored to		
Reamed from		275
Reamed to		300
Total Bit Footage	83	300
Bit Hrs.	6 1/4	8 1/2
Table R.P.M.	100	100

No. Stds. 7 Length 364.63
No. D.C.'s 3 1/2 D.P. 5 1/2 D.P. Length 3.35
Length
Kelly in = 32.62
TOTAL = 300.00
D.C.O.D. Top 6 1/4 Hrs. On Bottom
D.C.I.D. Top 2 7/8 Hrs. Off Bottom
Pipe Size 4 1/2 Trip Time
C.S.G. Set at Serv. Time
C.S.G. Size Rep. Time
Pipe in Hole Jts. Diesel Fuel Meter Reading
Pipe on Racks Jts. Today
Total Pipe on Lease Jts. Yesterday
Consumption Gals.

Depth 358 Deviation 1/2°
Depth Deviation
Depth Deviation
Depth Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
12						
1						
2						
3						
4						
5						
6						
7						

No. 1 Pump Size 6 3/4 X 12 Liner Size 6 3/4
No. 2 Pump Size 5 X 10 Liner Size 5
Water-Loss Filter Cake PH
Mud Added Sacks 40 SAX GEL
Chemicals Added Lbs.

CREW
Driller B BISCOE
Derrickman D ANDERSON
Cat Headman L RAILHUS
Rotary Helper B ANDERSON
Rotary Helper
Fireman M. HACKNEY
Leaseman

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
MIXING GEL (Loss Circulation)	12:00	2:00
RUN IN & DRILL PILOT HOLE	2:00	5:15
DROP SURVEY & HOIST TO REAM	5:15	6:00
RUN IN REAM 7 7/8 HOLE TO 12 1/4	6:00	8:00

Run 2

REAMED Drilled From 300 To 352 Hole Made 52

Bit No.	1A
Serial No.	RERUN
Bit Size	12 1/4
Bit Type	OSC-3
Dr. from	
Dr. to	
Cored from	
Cored to	
Reamed from	300
Reamed to	352
Total Bit Footage	352
Bit Hrs.	12 1/4
Table R.P.M.	100

No. Stds. Length
No. D.C.'s 11 Length 318.11
SUB & BIT Length 3.35
Length
Kelly in = 30.54
TOTAL = 352.00
D.C.O.D. Top 6 1/4 Hrs. On Bottom
D.C.I.D. Top 2 7/8 Hrs. Off Bottom
Pipe Size 4 1/2 Trip Time
C.S.G. Set at Serv. Time
C.S.G. Size Rep. Time
Pipe in Hole Jts. REMARKS:
Pipe on Racks Jts.
Total Pipe on Lease Jts.

Depth Deviation
Depth Deviation
Depth Deviation
Depth Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8						
9						
10						
11						
12						
1						
2						
3						

No. 1 Pump Size 6 3/4 X 12 Liner Size 6 3/4
No. 2 Pump Size 5 X 10 Liner Size 5
Water-Loss Filter Cake PH
Mud Added Sacks 10 SAX GEL
Chemicals Added Lbs.

CREW
Driller W. SEMAR 12 HRS
Derrickman D ANDERSON 12 HRS
Cat Headman J. ANDERSEN 12 HRS
Rotary Helper H. BOGSTIE 12 HRS
Rotary Helper
Fireman G. SANTROCK
Leaseman C. GRAY

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
RIG SERVICE	8:00	8:15
REAM 7 7/8 HOLE TO 12 1/4	8:15	2:00
TRIP TO CONDITION HOLE	2:00	2:45
CIRCULATE	2:45	3:15
HOIST TO RUN CASING	3:15	3:45
RIG TO RUN CASING	3:45	4:00

Run 3

Drilled From ..... To ..... Hole Made .....

Bit No.	
Serial No.	
Bit Size	
Bit Type	
Dr. from	
Dr. to	
Cored from	
Cored to	
Reamed from	
Reamed to	
Total Bit Footage	
Bit Hrs.	
Table R.P.M.	

No. Stds. Length
No. D.C.'s Length
Length
Length
Kelly in =
TOTAL =
D.C.O.D. Top Hrs. On Bottom
D.C.I.D. Top Hrs. Off Bottom
Pipe Size Trip Time
C.S.G. Set at Serv. Time
C.S.G. Size Rep. Time
Pipe in Hole Jts. REMARKS:
Pipe on Racks Jts.
Total Pipe on Lease Jts.

Depth Deviation
Depth Deviation
Depth Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
4						
5						
6						
7						
8						
9						
10						
11						

No. 1 Pump Size Liner Size
No. 2 Pump Size Liner Size
Water-Loss Filter Cake PH
Mud Added Sacks
Chemicals Added Lbs.

CREW
Driller D. MOHNS 16 HRS
Derrickman D BOGSTIE
Cat Headman M LAFRENTZ
Rotary Helper O RATTMANN
Rotary Helper
Fireman L. TRUSS
Leaseman

MATERIALS CHARGED TO OPERATOR

Core Bit	Serial
Reaming Bit	Serial
Core Cutters SF. HF.	Core Catchers SF. HF.
Swab Cups	Swab Rubbers

REMARKS	FROM	TO
RUN CASING	4:00	7:00
CIRC CASING	7:00	7:30
CEMENT CASING	7:30	8:00
W. O. C.	8:00	12:00

RAN 334.71 FT 8 5/8 24 LB J-55 MINNESMAN CASING
SET AT 349.11 K.B.
CEMENTED BY HOWCO WITH 200 SAX IN LAND CEMENT 2% CACL2
JOB COMPLETED 8:00 P.M.
12.40 FROM K.B TO TOP CASING 60% GOOD CEMENT RETURN

GUTHRIE McLAREN DRILLING LTD.

Company Representative: Ruth Whitney

Tool Pusher:

Well No. BRIGGS ~~WEST~~ TROUT ~~RIVER~~ RIVER #3

Date FEB 13/60

Lsd. ____ Sec. ____ Twp. ____ Rge. ____ W. ____

Drilled From 162 To 220 Hole Made 58

Bit No.	1	No. Stds.	Length
Serial No.	RERUN	No. D.C.'s 6	Length 176.78
Bit Size	9 7/8	BELL SUB & BIT	Length 3.55
Bit Type	OSC		Length
Dr. from	0	Kelly in =	39.67
Dr. to	220	TOTAL =	220.00
Cored from		D.C.O.D. Top 6 1/4	Hrs. On Bottom 2
Cored to		D.C.I.D. Top 2 7/8	Hrs. Off Bottom 6
Reamed from		Pipe Size	Trip Time
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage	220	C.S.G. Size	Rep. Time
Bit Hrs.	8 1/4	Pipe in Hole Jts.	Diesel Fuel Meter Reading
Table R.P.M.	150	Pipe on Racks Jts.	Today
Depth 190	Deviation 1°	Total Pipe on Lease 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 6 3/4 X 12	No. 2 Pump Size 5 X 10
12							Liner Size 6 3/4	Liner Size 5
1							Water-Loss	Filter Cake / PH
2								
3								
4								
5							Mud Added Sacks 2200 → GEL	
6							Chemicals Added Lbs.	
7								

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D MOHNS	Core Bit	Serial
Derrickman	D BOESTE	Reaming Bit	Serial
Cat Headman	M LAFRENTZ	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	C ROTTMANN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L TRUSS		
Leaseman			

REMARKS	FROM	TO
LOST CIRC - MIX MUD &	12:00	
HOIST PIPE		2:00
RUN IN REAMER	2:00	5:30
DRILL	5:30	7:30
WORK MUD RING	7:30	8:00

Drilled From 220 To 275 Hole Made 55

Reamed From 0 To 220 - 220

Bit No.	1A	No. Stds.	Length
Serial No.	Re Run	No. D.C.'s 8	Length 235.48
Bit Size	12 1/4		Length
Bit Type	OSC-3		Length
Dr. from	~~220~~	Kelly in =	39.52
Dr. to	~~275~~	TOTAL =	275.00
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	0	Pipe Size 4 1/2	Trip Time
Reamed to	220	C.S.G. Set at	Serv. Time
Total Bit Footage	275	C.S.G. Size	Rep. Time
Bit Hrs.	6 1/2	Pipe in Hole Jts.	REMARKS:
Table R.P.M.	150	Pipe on Racks Jts.	
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
8							Liner Size	Liner Size
9							Water-Loss	Filter Cake / PH
10								
11								
12								
1							Mud Added Sacks 13 SAX GEL	
2							Chemicals Added Lbs.	
3								

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B BRISCOE	Core Bit	Serial
Derrickman	B ANDERSON	Reaming Bit	Serial
Cat Headman	B DAHLHUS	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	B ANDERSEN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	M HACKNEY 14 HRS		
Leaseman			

REMARKS	FROM	TO
HOIST & RUN IN TO REAM PILOT HOLE	8:00	9:00
REAM PILOT HOLE	9:00	12:00
DRILLING 12 1/4 HOLE	12:00	3:30
HOIST TO DRILL PILOT HOLE & BOP SURVEY	3:30	4:00

Drilled From 275 To 308 Hole Made 33

Bit No.	1B	No. Stds.	Length
Serial No.	D44140	No. D.C.'s 10	Length 292.83
Bit Size	7 7/8		Length
Bit Type	VS1		Length
Dr. from	275	Kelly in =	15.17
Dr. to	308	TOTAL =	308.00
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	Serv. Time
Total Bit Footage	33	C.S.G. Size	Rep. Time
Bit Hrs.	3	Pipe in Hole Jts.	REMARKS:
Table R.P.M.	100	Pipe on Racks Jts.	
Depth 275	Deviation 3/4°	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 6 3/4 X 12	No. 2 Pump Size 5 X 10
4							Liner Size 6 3/4	Liner Size 5
5							Water-Loss	Filter Cake / PH
6								
7								
8								
9							Mud Added Sacks 18 SAX GEL	
10							Chemicals Added Lbs.	
11								

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	W SEMAK	Core Bit	Serial
Derrickman	D ANDERSON	Reaming Bit	Serial
Cat Headman	S ANDERSEN	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	H BOESTE	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	G SANTROCK		
Leaseman			

REMARKS	FROM	TO
RUN IN W/ 7 7/8 BIT	4:00	4:30
DRILL PILOT HOLE	4:30	7:30
HOIST DUE TO LOSS CIRCULATION	7:30	8:00
WAIT ON GEL	8:00	11:30
MIX GEL & ~~SURVEY~~	11:30	12:00

Company Representative

Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Date FEB 12/60

Well No. BALLGS (~~WEST~~) THAT ~~LAKE~~ RIVER 3

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

Drilled From ..... To ..... Hole Made .....

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.	Diesel Fuel Meter Reading
Table R.P.M.			Pipe on Racks Jts.	Today
Depth		Deviation	Total Pipe on Lease 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 / Liner Size	No. 2 Pump Size / Liner Size
1								
2								
3								
4								
5								
6								
7								

Water-Loss	Filter Cake	PH

Mud Added Sacks: GEL 2500

Chemicals Added Lbs.:

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D. MOHNS	Core Bit	Serial
Derrickman	D. BOGSTIE	Reaming Bit	Serial
Cat Headman	M. LAFRENTZ	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	O. ROTTMANN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L. THUSS		
Leaseman			

REMARKS	FROM	TO
W.O.C.	12:00	8:00

Drilled From ..... To ..... Hole Made .....

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.	
Depth		Deviation		
Depth		Deviation		
Depth		Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size / Liner Size	No. 2 Pump Size / Liner Size
8								
9								
10								
11								
12								
1								
2								
3								

Water-Loss	Filter Cake	PH

Mud Added Sacks:

Chemicals Added Lbs.:

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B. BRISCOE	Core Bit	Serial
Derrickman	D. ANDERSON	Reaming Bit	Serial
Cat Headman	J. PAULHUS	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	B. ANDERSEN	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	M. HACKNEY		
Leaseman			

REMARKS	FROM	TO
BIG UP PUMPS TO DIG RAT HOLE.	8:00	10:00
DIG RAT HOLE. (ROCKS)	10:00	3:00
WORK ON SHALE SHAKER	3:00	4:00

Drilled From 0 To 162 Hole Made 162

Bit No.			No. Stds.	Length
Serial No.			No. D.C.'s 5	Length 147.64
Bit Size			BIT & BELLSUB	Length 3.55
Bit Type				Length
Dr. from	0		Kelly in =	10.81
Dr. to	162		TOTAL =	162.00
Cored from			D.C.O.D. Top 6¼	Hrs. On Bottom
Cored to			D.C.I.D. Top 2⅞	Hrs. Off Bottom
Reamed from			Pipe Size 4½	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 110		Deviation ½°	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 6 3/4 x 12 / Liner Size 6 3/4	No. 2 Pump Size 5X10 / Liner Size 5"
4								
5								
6			65					
7			68					
8			67					
9			68					
10			70					
11								

Water-Loss	Filter Cake	PH

Mud Added Sacks: GEL 1500

Chemicals Added Lbs.:

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	W. SEMAK	Core Bit	Serial
Derrickman	D. ANDERSON	Reaming Bit	Serial
Cat Headman	S. ANDERSEN	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	H. BOGSTIE	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	G. SANTROCK		
Leaseman			

REMARKS	FROM	TO
DRILL SURFACE HOLE	4:00	8:30
WORK MUD RING	8:30	9:00
DRILL	9:00	10:00
WORK MUD RING	10:00	10:30
SURVEY	10:30	10:45
DRILL	10:45	11:30
LOSS CIRC THRU RAT HOLE MIX GEL	11:30	12:00