

UNITED TESTERS LTD.

1000 - 10th Ave. West



Calgary, Alberta

Phone CHerry 4-0506

PRESSURE READINGS

TYPE OF TEST Formation

REC. NO. 943 CAP. 5000 DEPTH

INTERVAL TESTED 2498' to 2526'

INITIAL HYD. 1463 POINTS

HOLE SIZE 7 7/8 MUD WT. 10.9

INITIAL SHUT-IN 1103 2

FLUID CUSHION Nil

INITIAL FLOW 52 3

FLOW PERIOD 60 minutes

FINAL FLOW 167 4

INITIAL SHUT-IN PER 28 minutes

FINAL SHUT-IN 1058 5

FINAL SHUT-IN PER 18 minutes

FINAL HYD. 1452 6

BLOW Fair Initial Puff, fair air blow

PRESSURE READINGS

steady thru-out test

REC. NO. 23 CAP. 3000 DEPTH

FLUID RECOVERY 252', 25' oil flecked
salty gas cut watery mud, 167' salt water gas
cut, 60' mud, gas cut

INITIAL HYD. 1480 1

INITIAL SHUT-IN 1085 2

TEMP. M.C.F.

INITIAL FLOW 55 3

SUR. CHOKE BOT. CHOKE 1/2"

FINAL FLOW 170 4

TICKET NO. 28

FINAL SHUT-IN 1060 5

FINAL HYD. 1480 6

REMARKS

PRESSURES ON BUILD-UP

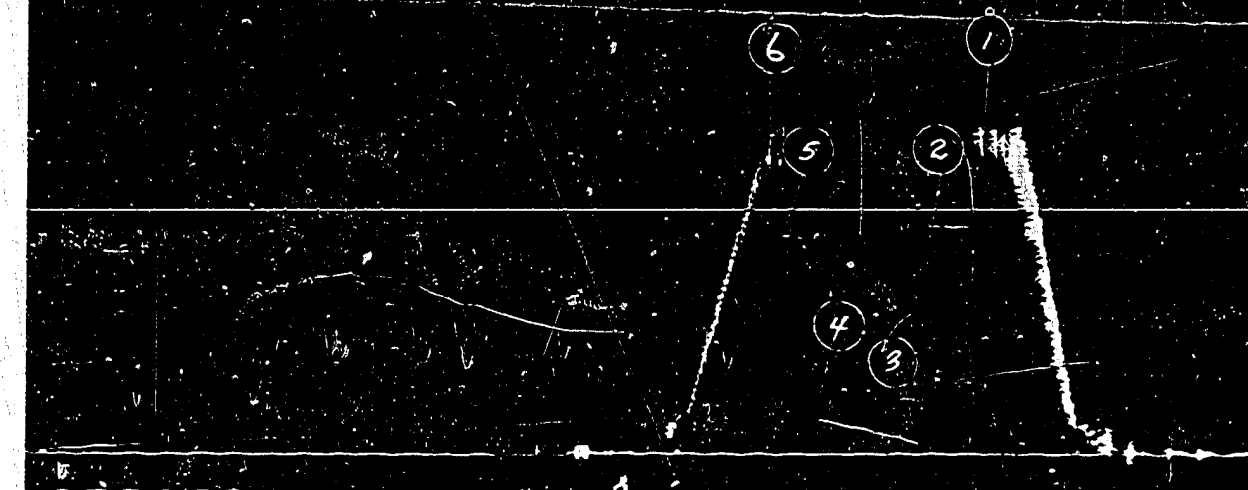
D. Todd Briggs,

Briggs N.E. Tathlina Lake No. 9

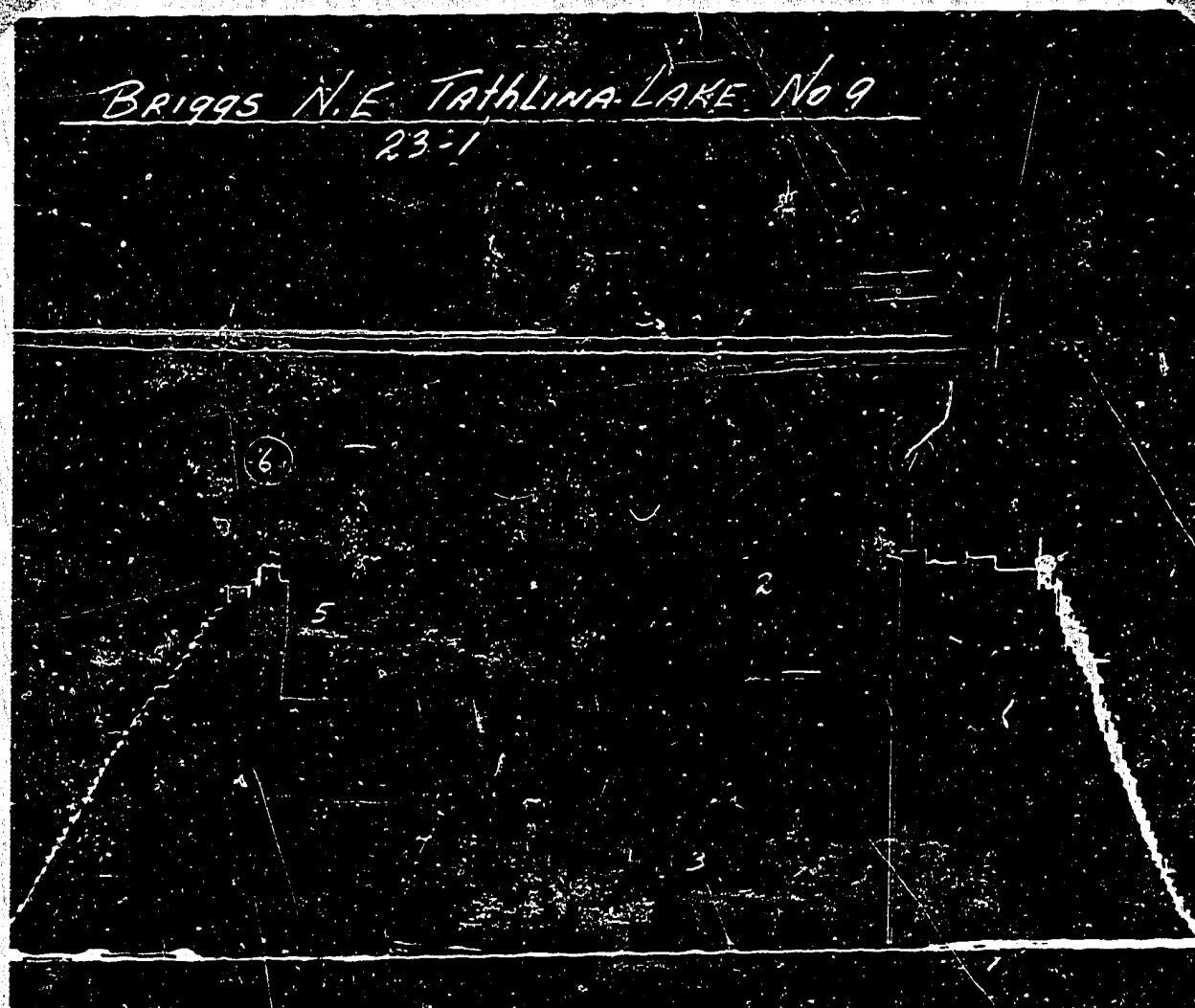
D.S.T. No. 1

April 3, 1959

Briggs N.E. Tathlina Lake No 9
943-1



Briggs N.E. Tathlina Lake No 9
23-1



D. Todd Briggs
COMPANY

Briggs N.E. Tathlina Lake No. 9
WELL NAME AND NUMBER

TEST NO.

DATE
April 3, 1959

UNITED TESTERS LTD.

1000 - 10th Ave. West



Calgary, Alberta

Phone CHurry 4-0506

PRESSURE READINGS

TYPE OF TEST Formation
 INTERVAL TESTED 2436' to 2468'
 HOLE SIZE 7 7/8 MUD WT. 10.5
 FLUID CUSHION Nil
 FLOW PERIOD 60 minutes
 INITIAL SHUT-IN PER 30 minutes
 FINAL SHUT-IN PER 15 minutes

REC. NO. 943 CAP. 5000 DEPTH
 INITIAL HYD. 1539 POINTS 1
 INITIAL SHUT-IN 1080 2
 INITIAL FLOW 40 3
 FINAL FLOW 78 4
 FINAL SHUT-IN 1064 5
 FINAL HYD. 1122 6

BLOW Fair Initial Puff, small air blow
steady thru-out test.

PRESSURE READINGS

FLUID RECOVERY 90' oil flecked salt
water, sulphurous.
 TEMP. M.C.F.
 SUR. CHOKE BOT. CHOKE 1/2"
 TICKET NO. 29

REC. NO. 23 CAP. 3000 DEPTH
 INITIAL HYD. 1545 POINTS 1
 INITIAL SHUT-IN 1080 2
 INITIAL FLOW 50 3
 FINAL FLOW 50 4
 FINAL SHUT-IN 1070 5
 FINAL HYD. 1130 6

REMARKS

PRESSURES ON BUILD-UP

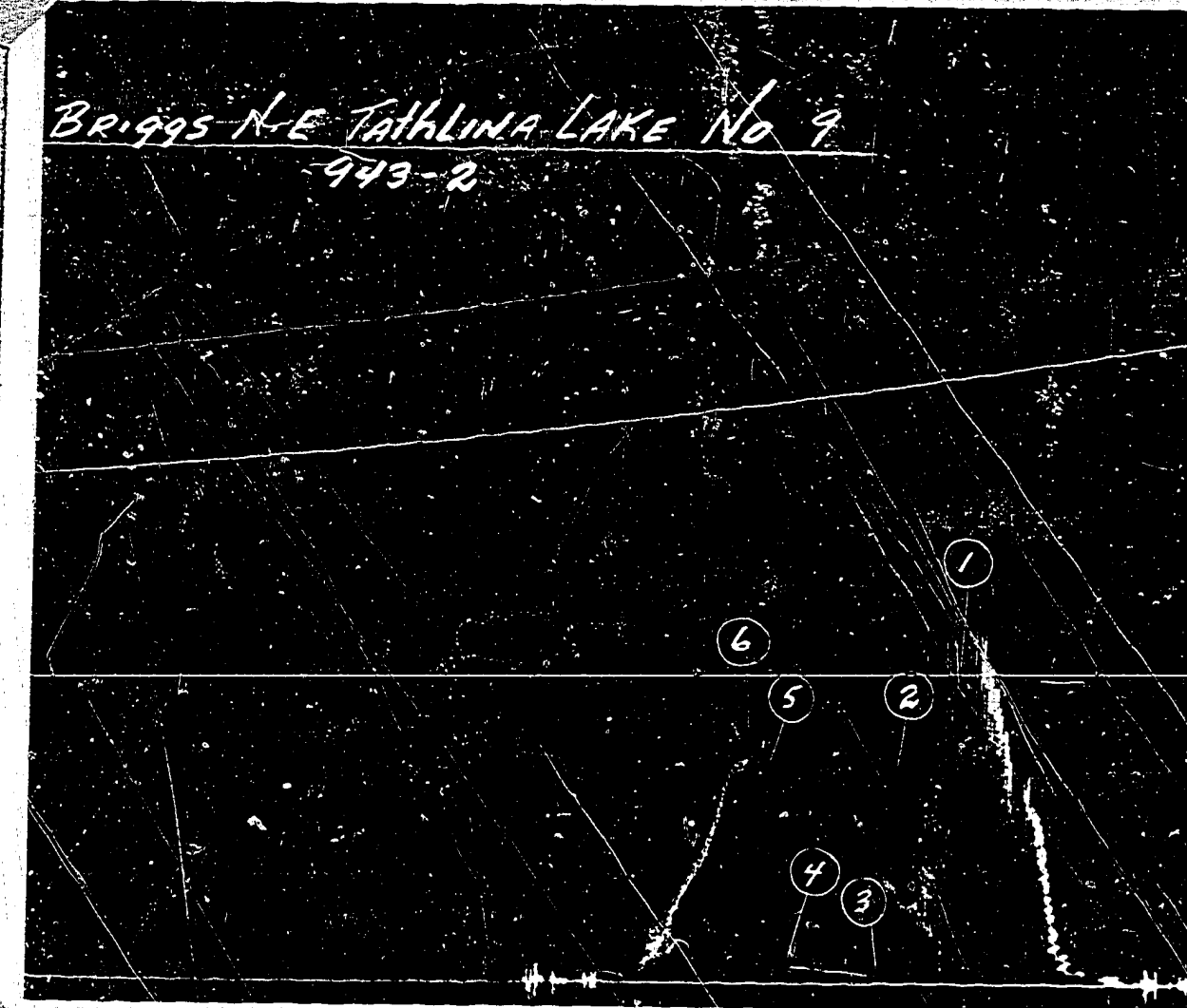
D. Todd Briggs

Briggs N.E. Tathlina Lake No. 9

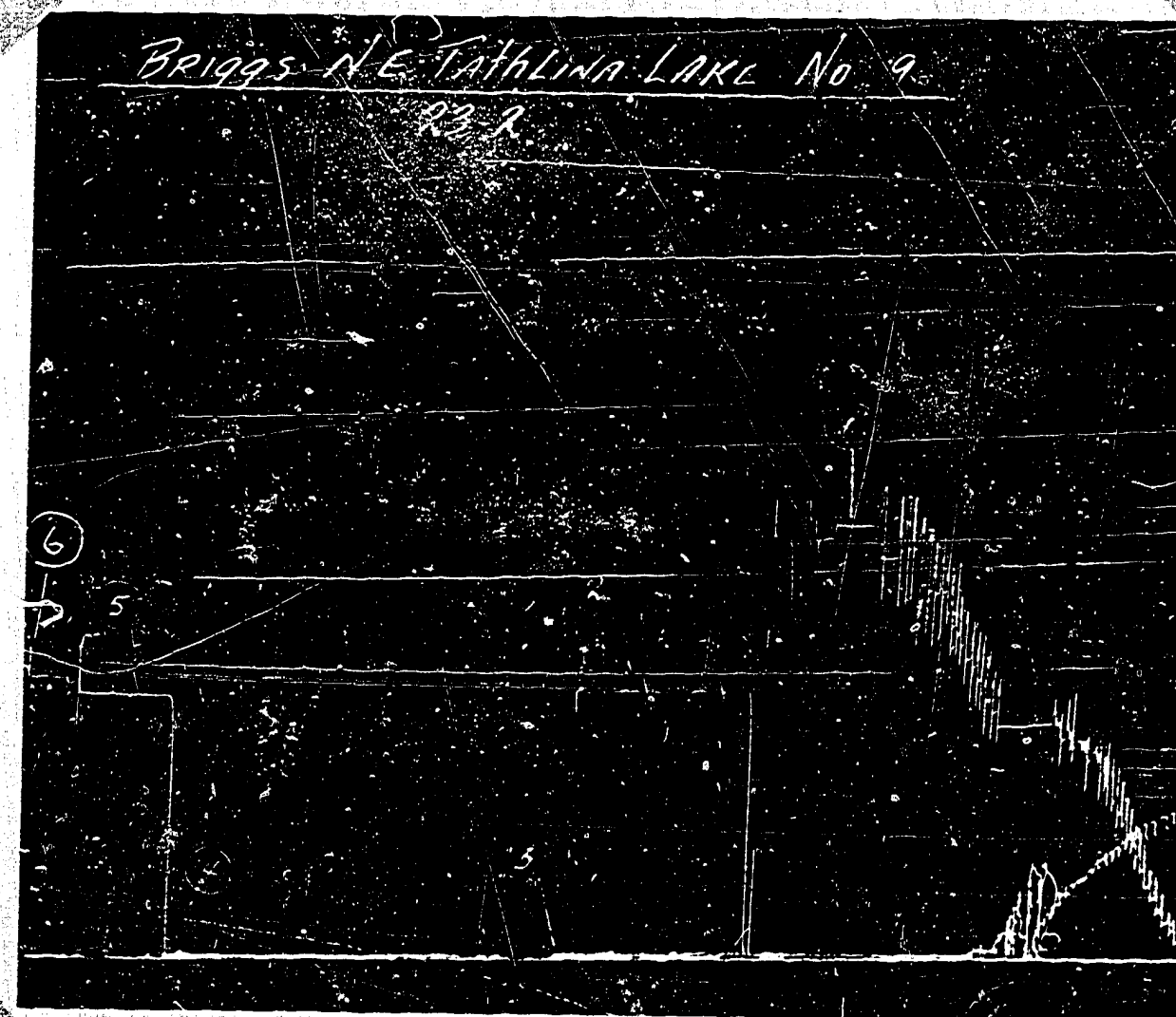
D.S.T. No. 2

April 4, 1959

Briggs N.E. Tathlina Lake No 9
 943-2



Briggs N.E. Tathlina Lake No 9
 23-2



D. Todd Briggs
 COMPANY

Briggs N.E. Tathlina Lake No. 9
 WELL NAME AND NUMBER

TEST NO. 2
 DATE April 4, 1959

GEOLOGICAL REPORT
BRIGGS NORTHEAST TATHLINA LAKE NO. 9
NORTHWEST TERRITORIES

J. C. SPROULE & ASSOCIATES
GEOLOGICAL & EXPLORATION CONSULTANTS

311 EIGHTH AVE. N. W. 100
CALGARY - ALBERTA

TELEPHONE
AMHERST 7-4300
AMHERST 7-4376

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LOGS - Schlumberger Electrical log Microlog-Caliper Sonic Log Gamma Ray-Neutron Log Visual Well Log	In Pocket
DRILL STEM TEST CHARTS, Nos. 1 and 2	In Pocket

SUMMARY OF PERTINENT WELL DATA

Well Name: Briggs Northeast Tathlina Lake No. 9

Location: Latitude 60° 43' 05" N.
Longitude 117° 22' 17" W.

Elevation: Ground 907.9'
K. B. 919'

Total Depth: 2928'

Operator: A. M. Lloyd

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

Drilling Contractor: Peter Bawden Drilling Limited

Spudded: March 21, 1959

Completed: April 6, 1959

Status: Plugged and abandoned

Geological Markers:

<u>Age</u>	<u>Formation or Marker</u>	<u>Depth</u>	<u>Elevation</u>
Upper Devonian	Grumbler	40'	879
	Simpson	1000'	-81
Middle Devonian	Slave Point	2186'	-1267
	Presqu'ile Limestone	2390'	-1471
	Presqu'ile Dolomite	2500'	-1581
	Pine Point	2535'	-1616
	Dolomite	2750'	-1831
	Anhydrite	2855'	-1936
	Sandstone	2911'	-1992
Precambrian	Granite	2921'	-2002

Core Summary:

Core No. 1	2386' - 2411'	Rec. 25.7'
Core No. 2	2412' - 2441'	Rec. 29.6'
Core No. 3	2442' - 2470'	Rec. 28'
Core No. 4	2471' - 2481'	Rec. 9.9'
Core No. 5	2481' - 2508'	Rec. 27.5'
Core No. 6	2509' - 2519'	Rec. 9.8'

CORED 129'

Drilling Data:

<u>Hole Size</u>	<u>From</u>	<u>To</u>
13 3/4"	Surface	-213' 227
9"	213'	-227'
7 7/8"	227'	2928'

Deviation Surveys

60'	0°	225'	1/4°	1727'	3/4°	2471'	3/4°
100'	1/4°	437'	0°	1817'	3/4°	2690'	3/4°
130'	0°	924'	1/2°	2235'	3/4°	2756'	3/4°
190'	3/4°	1192'	1/2°	2386'	3/4°	2928'	1/2°

Surface Casing:

7 joints, 211.90' x 8 5/8" x 24 lb. new casing cemented at 225.20' K.B. with 138 sx. and 2% calcium chloride by Howco Skid Unit, March 23, 1959.

Summary of Drill Stem Tests:

- No. 1 2498' - 2526' V.O. 1 hour S.I. 15 min. Good air blow. Recovered 257' of gassified salt water.
- No. 2 2436' - 2468' V.O. 1 hour S.I. 15 min. Slight air blow. Recovered 90' of salt water.

Abandonment Plugs:

- No. 1 2550' - 2130' 150 sx. and 1% calcium chloride
- No. 2 275' - 180' 50 sx. and 2% calcium chloride
- No. 3 Top of surface casing 5 sx. Steel plate welded on top. Well name sign attached 4' above ground level.

Logs:

Schlumberger

Electrical Log	222' - 2795'
Microlog-Caliper	222' - 2795'
Sonic Log	222' - 2783'
Gamma Ray-Neutron Log	25' - 2795'

DAILY CHRONOLOGICAL WELL REPORTWell Name: Briggs Northeast Tathlina Lake No. 9Location: Latitude 60° 43' 05" N.
Longitude 117° 22' 17" W.

(Operation ending 12 midnight)

<u>Date</u>	<u>Total Depth Feet</u>	<u>Progress Feet</u>	<u>Days</u>	<u>Remarks</u>
Mar. 21	111	100	1	Peter Bawden Drilling Limited Rig No. 11 spudded in at 12:45 a.m. Drilled 9" hole with rerun bit to 73'. Changed bit. Drilling 9" surface hole.
Mar. 22	227	116	2	Drilled 9" surface hole to 227'. Picked up 13 3/4" reamer. Reaming surface hole.
Mar. 23	439	212	3	Reamed surface hole to 213'. Drilled 7 7/8" hole from 227' to 439' with Bit No. 1. Measured out of hole. Ran in with 13 3/4" bit, circulated and pulled out. Ran 7 joints of 8 5/8" casing. Cemented 211.90' casing at 225.20' K.B. with 138 sx. and 1% calcium chloride. Plug down at 4:25 p.m. Standing cemented.
Mar. 24	589	150	4	Standing cemented 4 1/2 hours. Slacked off, installed casing bowl and blow out preventers. Pressured up on blow out preventers. Drilled out cement, plug and shoe at 6:00 p.m. and cleaned out to 439'. Displaced hole and mixed mud. Drilling 7 7/8" hole with Bit No. 2.
Mar. 25	1431	842	5	Drilled 7 7/8" hole to 1192' with Bit No. 2 using 14 drill collars. Drilling 7 7/8" hole with Bit No. 3.
Mar. 26	2193	762	6	Drilled 7 7/8" hole to 1846' with Bit No. 3. Drilling 7 7/8" hole with Bit No. 4.
Mar. 27	2386	193	7	Drilled 7 7/8" hole to 2235' with Bit No. 4. Circulated sample and measured out of hole. Drilled 7 7/8" hole to 2386' with Bit No. 5. Circulated sample and measured out of hole. Ran in with junk sub and magnet, worked same and pulled out. Ran in with core barrel and broke circulation. Cutting Core No. 1.

<u>Date</u>	<u>Total Depth Feet</u>	<u>Progress Feet</u>	<u>Days</u>	<u>Remarks</u>
Mar. 28	2414	28	8	Cut and recovered Core No. 1 from 2386' to 2411'. Reamed rathole and drilled 7 7/8" hole to 2412'. Ran in with core barrel. Cutting Core No. 2.
Mar. 29	2444	30	9	Cut and recovered Core No. 2 from 2412' to 2441'. Reamed rathole and drilled 7 7/8" hole to 2442'. Ran in with core barrel. Cutting Core No. 3.
Mar. 30	2481	37	10	Cut and recovered Core No. 3 from 2442' to 2470'. Reamed rathole and drilled 7 7/8" hole to 2471'. Ran in with core barrel and cut Core No. 4 from 2471' to 2481'. Pulling out with core barrel.
Mar. 31	2509	28	11	Recovered Core No. 4 from 2471' to 2481'. Cut and recovered Core No. 5 from 2481' to 2506'. Reamed rathole and drilled 7 7/8" hole to 2509'. Pulling out of the hole.
Apr. 1	2647	138	12	Finished pulling out. Ran in with core barrel and cut and recovered Core No. 6 from 2509' to 2519'. Ran in with Bit No. 6, broke circulation, reamed 60' of tight hole and reamed rathole. Drilling 7 7/8" hole with Bit No. 6.
Apr. 2	2790	143	13	Drilled 7 7/8" hole to 2690' with Bit No. 6 and circulated sample. Pulled out of the hole. Stuck for 2 hours between 2512' and 2452'. Ran in with Bit No. 7, reamed tight spots and cleaned out to bottom. Drilling 7 7/8" hole.
Apr. 3	2796	6	14	Drilled 7 7/8" hole to 2796' with Bit No. 7. Circulated sample and pulled out to log. Ran Schlumberger electrical log, microlog-caliper, sonic log and gamma ray-neutron log 12 hours. Ran D.S.T. #1 straddle test from 2498' to 2526' 7 hours. Ran in with Bit No. 8. Reamed tight hole at 2376' and 2656'. Cleaning out to bottom.
Apr. 4	2866	70	15	Drilled 7 7/8" hole to 2866' with Bit No. 8. Lost mud to formation from 2830' to 2838'. Ran D.S.T. #2 straddle test from 2436' to 2468' 6 1/4 hours. Ran in with Bit No. 9 to 2380'. Circulating and conditioning mud.

<u>Date</u>	<u>Total Depth Feet</u>	<u>Progress Feet</u>	<u>Days</u>	<u>Remarks</u>
Apr. 5	2928	62	16	Circulated and conditioned mud, reamed tight hole and cleaned out to bottom 1 1/2 hours. Drilled 7 7/8" hole to 2928' with Bit No. 9. Pulled out to abandon. Ran in open ended. Set Plug No. 1, 150 sx. and 1% calcium chloride at 2550'. Laid down drill collars. Felt Plug No. 1 after 8 hours at 2130'. Laid down drill pipe. Set Plug No. 2, 50 sx. and 2% calcium chloride at 270'. Standing cemented.
Apr. 6	2928	-	17	Standing cemented 5 1/2 hours. Ran in and felt top of Plug No. 1 at 180' at 6:00 a.m. Rig released 8:00 a.m. Rigging down and tearing out.

BIT RECORDWell Name: Briggs Northeast Tathlina Lake No. 9Location: Latitude 60° 43' 05" N.
Longitude 117° 22' 17" W.

<u>Bit No.</u>	<u>Make</u>	<u>Type</u>	<u>Size</u>	<u>Depth</u>		<u>Footage</u>	<u>Hours</u>
				<u>From</u>	<u>To</u>		
	Hughes	OSC1G	9"	Surface	73	62	13 3/4
	Hughes	OSC	9"	73	227	154	11
	Reed	Reamer	13 3/4"	Surface	213	202	15 3/4
1	Hughes	OSC	7 7/8"	227	439	212	6 3/4
2	Hughes	OSC3	7 7/8"	439	1192	753	17 1/2
3	Hughes	OSC3	7 7/8"	1192	1846	654	17 3/4
4	Hughes	OSC3	7 7/8"	1846	2235	389	10
5	Hughes	OSC	7 7/8"	2235	2386	151	9 1/2
1B	Christenson	J-10	6 1/8"	2386	2411	25	10 3/4
1RR	Hughes	OSC	7 7/8"	2386	2412	26	1 1/4
1B	Christenson	J-10	6 1/8"	2412	2441	29	12 3/4
1RR	Hughes	OSC	7 7/8"	2412	2442	30	1 3/4
1B	Christenson	J-10	6 1/8"	2442	2470	28	11 1/2
1RR	Hughes	OSC	7 7/8"	2442	2471	29	1 1/4
1B	Christenson	J-10	6 1/8"	2471	2508	37	15 3/4
1RR	Hughes	OSC	7 7/8"	2471	2509	38	1 3/4
1B	Christenson	J-10	6 1/8"	2509	2519	10	4 1/2
6	Hughes	OWV	7 7/8"	2509	2690	181	16 1/4
7	Hughes	OWV	7 7/8"	2690	2796	106	11
8	Hughes	OWV	7 7/8"	2796	2866	70	9 3/4
9	Hughes	OWV	7 7/8"	2866	2928	62	6

MUD RECORDWell Name: Briggs Northeast Tathlina Lake No. 9Location: Latitude 60° 43' 05" N.
Longitude 117° 22' 17" W.

<u>Date</u>	<u>Depth</u>		<u>Avg.</u> <u>Weight</u> (lb/US gal)	<u>Avg.</u> <u>Viscosity</u> Seconds	<u>Avg.</u> <u>Water Loss</u> c.c.	<u>Additives</u>
	<u>From</u> Feet	<u>To</u> Feet				
Mar. 20	Spudding Mud					Gel 1400 lb; Caustic 100 lb.
Mar. 21	Surface	111		100		Gel 1900 lb; Caustic 150 lb.
Mar. 22	111	207		90		Gel 700 lb.
Mar. 23	207	439		75		Gel 400 lb; Caustic 25 lb.
Mar. 24	439	589	8.7	55		Gel 4000 lb; Cypan 50 lb; Rayflo 100 lb; Caustic 150 lb; Mylojel 50 lb.
Mar. 25	589	1431	10.8	58		Gel 700 lb; Rayflo 200 lb; Bicarb 100 lb; Mylojel 200 lb; Caustic 125 lb.
Mar. 26	1431	2193	11.3	55		Soda Ash 50 lb; Caustic 200 lb; Rayflo 200 lb; Gel 1200 lb; Cypan 25 lb; Mylojel 100 lb.
Mar. 27	2193	2386	10.9	61		Gel 1600 lb; Mylojel 150 lb; Rayflo 150 lb; Caustic 150 lb.
Mar. 28	2386	2414	10.8	69	4.4	Rayflo 50 lb; Caustic 50 lb.
Mar. 29	2414	2444	10.8	97	4.4	Gel 700 lb; Caustic 100 lb; Rayflo 100 lb; Soda Ash 50 lb; Cypan 10 lb.
Mar. 30	2444	2481	10.8	95	6.4	Rayflo 150 lb; Caustic 75 lb; Mylojel 50 lb; Gel 300 lb.

<u>Date</u>	<u>Depth</u>		<u>Avg.</u> <u>Weight</u> (lb/US gal)	<u>Avg.</u> <u>Viscosity</u> Seconds	<u>Avg.</u> <u>Water Loss</u> c.c.	<u>Additives</u>
	<u>From</u> Feet	<u>To</u> Feet				
Mar. 31	2481	2599	10.8	91	6.0	Rayflo 100 lb; Caustic 100 lb; Mylojel 100 lb; Gel 600 lb; Cypan 31 lb; Starch 100 lb.
Apr. 1	2509	2647	10.7	80	5.5	Gel 300 lb; Starch 200 lb; Caustic 50 lb; Rayflo 50 lb; Cypan 10 lb.
Apr. 2	2647	2790	11.1	104	5.4	Gel 900 lb; Cypan 25 lb; Starch 100 lb; Rayflo 100 lb; Caustic 100 lb.
Apr. 3	2790	2796	10.9	83	4.8	-
Apr. 4	2796	2866	10.1	110	8.2	Gel 3200 lb; Mylojel 400 lb; Caustic 50 lb; Rayflo 200 lb; Cypan 55 lb; Antigyp 1000 lb.
Apr. 5	2866	2928	10.5	-	-	Caustic 100 lb; Rayflo 100 lb; Cypan 100 lb.

TIME DRILLING RECORDWell Name: Briggs Northeast Tathlina Lake No. 9Location: Latitude 60° 43' 05" N.
Longitude 117° 22' 17" W.

<u>Depth Feet</u>	<u>Time in Minutes</u>	<u>Depth Feet</u>	<u>Time in Minutes</u>
	<u>One Foot Drilling Time</u>		
2180 - 2190	1, 1, 2, 1, 1, 1, 2, 2, 2, 2,	2310 - 2320	3, 3, 3, 3, 3, 3, 3, 3, 4, 3,
2190 - 2200	3, 3, 2, 3, 3, 3, 3, 3, 3, 3,	2320 - 2330	3, 3, 3, 4, 3, 3, 4, 3, 4, 4,
2200 - 2210	4, 4, 3, 3, 4, 4, 4, 4, 5, 5,	2330 - 2340	3, 4, 4, 4, 4, 3, 3, 4, 4, 4,
2210 - 2220	5, 6, 5, 5, 4, 5, 5, 5, 5, 7,	2340 - 2350	3, 3, 4, 4, 4, 4, 3, 4, 4, 4,
2220 - 2230	5, 6, 6, 5, 5, 6, 5, 6, 6, 8,	2350 - 2360	3, 4, 4, 4, 4, 5, 5, 5, 3, 5,
2230 - 2240	6, 6, 7, 8, 8, 5, 3, 4, 4, 5,	2360 - 2370	6, 4, 4, 5, 5, 5, 5, 5, 4, 5,
2240 - 2250	8, 3, 4, 4, 4, 3, 4, 3, 3, 3,	2370 - 2380	4, 5, 5, 5, 5, 5, 4, 4, 6, 5,
2250 - 2260	3, 3, 3, 3, 4, 4, 4, 4, 4, 5,	2380 - 2386	4, 4, 4, 5, 5, 4,
2260 - 2270	4, 3, 3, 4, 4, 5, 3, 3, 3, 4,	<u>Coring Time</u>	
2270 - 2280	3, 4, 3, 3, 3, 2, 2, 2, 2, 2,	2386 - 2390	88, 53, 47, 44,
2280 - 2290	2, 3, 3, 3, 2, 3, 3, 3, 3, 3,	2390 - 2400	25, 25, 22, 24, 25, 27, 25, 25, 29, 22,
2290 - 2300	4, 3, 2, 3, 3, 3, 3, 3, 3, 3,	2400 - 2410	20, 21, 20, 17, 20, 21, 20, 20, 22, 22,
2300 - 2310	2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5, 2.5,	2410 - 2420	22, -, 40, 34, 29, 25, 24, 26, 27, 25,
		2420 - 2430	24, 26, 26, 25, 28, 28, 26, 25, 27, 26,

<u>Depth Feet</u>	<u>Time in Minutes</u>	<u>Depth Feet</u>	<u>Time in Minutes</u>
2430 - 2440	25, 24, 23, 22, 24, 26, 29, 29, 27, 29,	2600 - 2610	4, 5, 5, 5, 5, 5, 5, 5, 5, 5,
2440 - 2450	25, -, 34, 28, 26, 27, 26, 20, 22, 20,	2610 - 2620	6, 5, 5, 6, 4, 5, 4, 5, 5, 6,
2450 - 2460	19, 18, 22, 21, 20, 21, 26, 24, 23, 19,	2620 - 2630	5, 6, 6, 5, 5, 6, 4, 9, 4, 5,
2460 - 2470	21, 24, 22, 25, 25, 24, 25, 29, 32, 30,	2630 - 2640	5, 5, 6, 5, 6, 6, 6, 6, 6, 6,
2470 - 2480	-, 38, 24, 23, 21, 21, 24, 23, 24, 24,	2640 - 2650	6, 6, 6, 6, 6, 6, 6, 6, 7, 7,
2480 - 2490	25, 31, 29, 23, 26, 23, 25, 26, 27, 23,	2650 - 2660	7, 7, 7, 7, 6, 8, 5, 6, 6, 6,
2490 - 2500	22, 25, 28, 28, 32, 32, 37, 25, 30, 27,	2660 - 2670	7, 9, 8, 8, 8, 9, 8, 7, 7, 9,
2500 - 2510	29, 18, 20, 17, 20, 19, 21, 25, -, 30,	2670 - 2680	7, 8, 8, 8, 7, 8, 9, 7, 5, 8,
2510 - 2519	30, 39, 20, 20, 24, 26, 27, 33, 22,	2680 - 2690	8, 8, 7, 7, 7, 7, 10, 9, 9, 7,
	<u>Drilling Time</u>	2690 - 2700	5, 5, 5, 4, 4, 4, 3, 5, 5, 4,
2520 - 2530	3, 3, 3, 3, 4, 3, 3, 3, 3, 3,	2700 - 2710	3, 3, 3, 3, 3, 3, 3, 3, 3, 3,
2530 - 2540	3, 4, 5, 4, 4, 5, 5, 4, 5, 4,	2710 - 2720	3, 3, 3, 3, 3, 3, 7, 4, 3, 4,
2540 - 2550	4, 4, 4, 5, 4, 4, 5, 3, 3, 4,	2720 - 2730	4, 4, 4, 3, 3, 4, 2, 4, 3, 3,
2550 - 2560	3, 4, 5, 5, 5, 6, 4, 4, 3, 4,	2730 - 2740	4, 4, 5, 4, 4, 4, 4, 3, 4, 4,
2560 - 2570	4, 5, 4, 4, 5, 4, 4, 5, 7, 6,	2740 - 2750	5, 4, 4, 6, 6, 5, 6, 6, 5, 5,
2570 - 2580	6, 6, 6, 8, 4, 4, 4, 4, 4, 5,	2750 - 2760	7, 8, 7, 6, 7, 7, 6, 7, 7, 7,
2580 - 2590	4, 5, 4, 6, 5, 6, 5, 5, 6, 6,	2760 - 2770	7, 7, 9, 8, 10, 9, 7, 8, 9, 9,
2590 - 2600	4, 5, 4, 6, 4, 5, 4, 6, 5, 5,	2770 - 2780	8, 10, 11, 10, 6, 9, 6, 7, 9, 13,

<u>Depth Feet</u>	<u>Time in Minutes</u>	<u>Depth Feet</u>	<u>Time in Minutes</u>
2780 - 2790	12, 12, 12, 11, 12, 11, 10, 11, 10, 8,	2860 - 2870	11, 12, 13, 14, 12, 13, 14, 4, 4, 5,
2790 - 2800	7, 10, 8, 10, 10, 7, 14, 6, 5, 3,	2870 - 2880	5, 5, 3, 3, 5, 4, 4, 4, 4, 4,
2800 - 2810	5, 5, 6, 6, 4, 5, 7, 3, 3, 3,	2880 - 2890	5, 3, 3, 4, 3, 3, 4, 4, 5, 6,
2810 - 2820	3, 4, 5, 4, 4, 5, 7, 7, 6, 7,	2890 - 2900	5, 5, 4, 5, 6, 6, 5, 5, 4, 4,
2820 - 2830	8, 8, 7, 3, 7, 7, 10, 7, 7, 6,	2900 - 2910	6, 6, 5, 4, 4, 3, 4, 4, 5, 5,
2830 - 2840	7, 8, 7, 6, 11, 13, 13, 10, 8, 10,	2910 - 2920	5, 3, 3, 2, 2, 3, 3, 2, 2, 2,
2840 - 2850	7, 9, 12, 12, 11, 9, 11, 8, 9, 13,	2920 - 2928	2, 9, 14, 13, 15, 13, 13, 23,
2850 - 2860	13, 11, 12, 10, 10, 13, 12, 8, 8, 12,	2928 - 2928+	10+

SAMPLE DESCRIPTIONWell Name: Briggs Northeast Tathlina Lake No. 9Location: Latitude 60° 43' 05" N.
Longitude 117° 22' 17" W.Elevation: 919' K.B.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
Surface	
- 40	Glacial drift.
	<u>Grumbler Formation</u> 40'
40 - 70	Limestone - light grey, crystalline, silty in part.
70 - 80	Limestone - light grey, finely crystalline, silty and argillaceous, fossiliferous.
80 - 110	Limestone - grey, granular, sandy, slightly glauconitic, fossiliferous.
110 - 140	Interbedded sandstone - grey, fine grained, limy, fossiliferous, and limestone, grey, sandy, fossiliferous fragmental.
140 - 160	Limestone - buff, microcrystalline to crystalline, fossiliferous.
160 - 180	Limestone - buff to grey, silty, fossiliferous, with interbedded green shale.
180 - 210	Limestone - buff, crystalline, fossiliferous, silty.
210 - 230	As above with interbedded siltstone, greyish green, calcareous, micaceous; green shale partings.
230 - 260	Limestone - buff, crystalline, fossiliferous, silty.
260 - 270	Limestone - grey, sandy to silty, granular, fossiliferous; siltstone, greenish grey, micaceous and shale, green, non calcareous.
270 - 290	Interbedded sandstone - gray and light greenish grey, calcareous, micaceous, very fine grained, and limestone, grey, silty to sandy, fossiliferous, pyritic; minor siltstone, greyish green, calcareous, micaceous and shale, green.
290 - 340	Limestone - grey to buff, crystalline, fossiliferous, silty.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
340 - 350	Siltstone - light grey to greyish green, calcareous, micaceous, with interbedded limestone, fossiliferous fragmental and shale, green.
350 - 370	Siltstone - greyish green, micaceous, calcareous, fossiliferous, with interbedded shale, green, and thin bands of limestone, buff to brown, fossiliferous fragmental.
370 - 380	Limestone - buff, crystalline, silty, fossiliferous, interbedded with green shale and siltstone.
380 - 390	Shale - green, calcareous, with interbedded limy siltstone and buff, fossiliferous limestone, as above.
390 - 430	Limestone - buff to light brown, dense to microcrystalline, fossiliferous, minor interbedded shale, green.
430 - 440	Shale - green, calcareous, with interbedded calcareous siltstone and silty limestone, as above.
440 - 470	Limestone - light grey, silty, fossiliferous.
470 - 480	Limestone - as above with partings of green shale.
480 - 520	Shale - green, fissile, calcareous.
520 - 530	Limestone - buff, dense to microgranular, fossiliferous, traces of green shale partings; slightly silty.
530 - 550	Shale - green, fissile, calcareous; shale, brown, non calcareous.
550 - 570	Limestone - buff, dense, fossiliferous, with interbedded green shale, calcareous.
570 - 580	Limestone - greyish brown, dense to microgranular, fossiliferous, silty; partings of green shale.
580 - 660	Limestone - buff, dense to microcrystalline, fossiliferous, silty.
660 - 690	Limestone - greenish grey, crystalline, argillaceous, fossiliferous.
690 - 710	Limestone - buff, dense, fossiliferous, and limestone, buff, fossiliferous fragmental.
710 - 750	As above with interbedded green limy siltstone and argillaceous limestone, fossiliferous.
750 - 760	Limestone - dark greyish green, argillaceous, fossiliferous.

<u>Depth Feet</u>	<u>Description</u>
760 - 790	Limestone - greenish grey, dense to microcrystalline and microgranular, argillaceous, fossiliferous.
790 - 890	Interbedded shale - green, firm, calcareous, and limestone, buff to light brown, dense to microcrystalline and microgranular, fossiliferous, silty, and limestone, greyish green, argillaceous, fossiliferous, as above.
890 - 910	Limestone - greenish grey, dense, and buff to light brown, dense.
910 - 920	Limestone - buff, dense, slightly silty, and shale, green, slightly calcareous.
920 - 960	Limestone - buff, dense, slightly fossiliferous.
960 - 1000	As above with interbedded shale, bright green, slightly calcareous, and shale, green, silty, calcareous.
<u>Simpson Formation</u> 1000'	
1000 - 1030	Limestone - greenish grey, argillaceous, and shale, green, firm, limy, pyritic.
1030 - 1040	Shale - green, calcareous, with interbedded limestone, green, argillaceous.
1040 - 1210	Shale - green, silty, calcareous, with minor thin bands of limestone, buff, dense.
1210 - 1300	Limestone - dull greenish grey, very argillaceous, fossiliferous with interbedded green shale, as above.
1300 - 1390	Interbedded shaly limestone and limy shale - medium grey to dull greenish grey, fossiliferous.
1390 - 1420	Shale - greenish brown, calcareous, grading into limestone, greyish brown, argillaceous; minor interbedded shale, soft, green, fissile, calcareous; few thin bands of limestone, buff, dense.
1420 - 1470	Limestone - grey to greenish grey, argillaceous, fossiliferous.
1470 - 1590	Shale - grey and greyish brown, calcareous, grading into grey shaly limestone; shale, dark green, calcareous.
1590 - 1640	Interbedded siltstone and silty shale - greenish grey to green, calcareous, pyritic; thin beds of limestone, buff, dense, fossiliferous, and limestone, greenish grey, argillaceous and silty, pyritic.
1640 - 1710	Shale - dark brown, non calcareous to slightly calcareous; minor interbedded shale, green, calcareous, silty.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
1710 - 1720	Shale - green, silty, calcareous.
1720 - 1760	Shale - dark green, fissile, non calcareous to slightly calcareous, interbedded with shale, dark brown, fissile, non calcareous to slightly calcareous.
1760 - 1770	Limestone - light buff to grey, hard, dense.
1770 - 1780	Shale - green, fissile, calcareous.
1780 - 1800	Shale - dark brown and dark green, interbedded.
1800 - 1810	Limestone - grey and greenish grey, argillaceous, pyritic, with interbedded green limy shale and siltstone.
1810 - 1840	Shale - green and grey, calcareous.
1840 - 1860	Shale - dark green, calcareous; interbedded brown and greenish grey shale, slightly calcareous.
1860 - 1880	Shale - dark green, calcareous, fissile.
1880 - 1900	Shale - dark green, brown, and dark grey.
1900 - 1970	Shale - dark green, fissile, calcareous.
1970 - 2040	Shale - dark green, calcareous, with minor interbedded siltstone, greyish green, calcareous, and limestone, greyish green argillaceous.
2040 - 2080	Shale - dark green with black specks, non calcareous, and shale, dark grey, non calcareous, and shale, green, calcareous.
2080 - 2110	Shale - dark brown, silty, bituminous, calcareous.
2110 - 2120	Shale - dark grey, non calcareous, dark green, calcareous, and dark brown, calcareous.
2120 - 2130	Shale - dark green, fissile, calcareous.
2130 - 2140	As above with thin bands of grey and greenish grey silty limestone.
2140 - 2160	Shale - dark green, calcareous.
2160 - 2165	Shale - dark brown, silty, bituminous.
2165 - 2170	Shale - dark green, non calcareous.
2170 - 2175	Shale - dark green, calcareous, and shale, dark brown, calcareous, pyritic.

<u>Depth Feet</u>	<u>Description</u>
2175 - 2180	Shale - dark green, non calcareous, and shale, dark brown, slightly calcareous, pyritic.
2180 - 2185	As above plus limestone - light grey to greenish grey, crystalline, pyritic, fossiliferous.
<u>Slave Point Formation</u> 2186'	
2185 - 2195	Limestone - light buff, dense to microcrystalline with bituminous partings; limestone, light brown, dense to microgranular, pyritic.
2195 - 2205	Limestone - buff, dense to microcrystalline.
2205 - 2215	Limestone - light brown, microgranular to dense, bituminous partings, fractured.
2215 - 2220	Limestone - dark brown, dense.
2220 - 2240	Limestone - buff to light brown, dense to microgranular, bituminous partings.
2240 - 2250	Limestone - buff to light brown, crystalline to granular, traces of intercrystalline and intergranular porosity.
2250 - 2260	Limestone - buff, dense.
2260 - 2290	Limestone - buff to dark brown, dense to microcrystalline, bituminous shale partings.
2290 - 2300	Limestone - buff to light brown, dense.
2300 - 2310	Limestone - buff, crystalline, traces of good intercrystalline porosity.
2310 - 2330	Limestone - buff to light brown, dense to microgranular.
2330 - 2350	Limestone - dark brown, dense to granular.
2350 - 2365	Limestone - brown, mottled, dense.
2365 - 2386	Limestone - brown, dense.
2386 - 2519	Cored - see Core Description.
2519 - 2535	Dolomite - dark brown, finely crystalline, fair to poor intercrystalline porosity.
<u>Pine Point Formation</u> 2535'	
2535 - 2750	Limestone - light brown to dark brown, argillaceous, fractured,

<u>Depth Feet</u>	<u>Description</u>
	bituminous shale partings, fossiliferous.
2750 - 2760	Dolomite - dark brown, microcrystalline, hard and tight.
2760 - 2790	Dolomite - light to dark brown, microcrystalline to very finely crystalline, no apparent porosity, bituminous partings.
2790 - 2796	Dolomite - light brown, microcrystalline to crystalline; few fragments indicate clusters of dolomite crystals that probably formed in scattered vugs.
2796 - 2810	Dolomite - light to dark brown, mottled, microcrystalline; scattered vugs containing small white dolomite crystals.
2810 - 2815	Dolomite - as above with scattered zones of dolomite, light brown to colorless crystals, excellent porosity, probably formed in vugs.
2815 - 2820	Dolomite - light brown, crystalline, traces of fair to good inter-crystalline porosity.
2820 - 2830	Dolomite - buff to light brown, dense, no porosity.
2830 - 2840	Dolomite - brown, argillaceous, black bituminous partings, no porosity.
2840 - 2855	Dolomite - dark brown, argillaceous, dense to cryptocrystalline, black bituminous partings.
2855 - 2865	Dolomite - light brown, dense; traces of interbedded and inter-mixed anhydrite, colorless to light brown and white.
2865 - 2885	Anhydrite and dolomite - as above, traces of red beds.
2885 - 2915	Interbedded anhydrite and dolomite - buff to light brown, dense, minor irregular bright green shale partings.
2915 - 2920	Sand - poorly consolidated, medium grained, clean quartz; anhydrite and dolomite, as above.
<u>Precambrian</u>	
	2921'
2920 - 2928	Sandstone - greyish white to greenish white, clean quartz, fine to medium grained, porous; anhydrite, dolomite and green shale, as above; minor limestone, buff, dense; granite, coarsely crystalline, pink to red with green and brown mica; pyrite.

WELL PRODUCTION RECORD

WELL NAME

KENANEE KCL D#80 SHANH 12#21#68#10

SS LOC 15 SEC TWP RGE M P ES
100122106810W500YEAR
1968

FIELD NAME

SWAN HILLS

POOL NAME

BHILL LAKE A AND B

FIELD CODES

887744050

SEQ. NO.

639

WELL STATUS

OIL PROJECT

RECLASS
MO. YR.

BLOCK NO.

PROD. NO.

PSI NO.

ON PROD.
MO. YR.

561

NO.	CONDENSATE - bbl	OIL - bbl	GAS - mcf	WATER - bbl	GAS - CREDITS	WATER - CREDITS	OPER.	HOURS
CUM. PROD.		31024	11838				006	
12 A		16	4					
1								
2								
3								
ANY TOTAL CUM. TOTAL		31040	11842					

A - DENOTES PREVIOUS YEAR ADJUSTMENT N - DENOTES NEGATIVE ADJUSTMENT OIL AND GAS CONSERVATION BOARD - CALGARY, ALBERTA

CORE DESCRIPTION

Well Name: Briggs Northeast Tathlina Lake No. 9

Location: Latitude 60° 43' 05" N.
Longitude 117° 22' 17" W.

Core No. 1 2386' - 2411' Rec. 25.7

Slave Point Formation

4.3' Limestone - brown, dense, with stylolitic partings and thin irregular partings of dark green shale.

Fresqu'ile Limestone

5.0' Limestone - greyish white, crystalline, containing stylolitic partings and high angle irregular fractures filled with greenish grey waxy shale, non calcareous; slightly fossiliferous; scattered porosity associated with fossils.

13.6' Limestone - greyish white, microcrystalline to dense, green shale partings and inclusions, and stylolitic partings; scattered porosity associated with fossils; high angle fractures bleeding live oil; some evidence of brecciation; large branching corals at 2403' and 2408'.

2.8' Limestone - greyish white to light grey with slight greenish cast, fractured, irregular soft shale partings, microcrystalline to finely crystalline, slight live oil bleeding from scattered pores and fractures.

Core No. 2 2412' - 2441' Rec. 29.6'

25.7' Limestone - light grey, microcrystalline to crystalline, hard and tight; many irregular partings of soft, greyish green shale giving the core a brecciated appearance in places; no oil staining or bleeding; many stylolite partings; few fractures filled with soft, greyish green shale.

3.9' Limestone - light grey, crystalline, poor scattered porosity and oil staining; core shows strong bleeding of live oil after exposure.

Core No. 3 2442' - 2470' Rec. 28'

3' Limestone - light grey, crystalline, vertically fractured, bleeding live oil from poor scattered porosity.

- 3' Limestone - light grey, crystalline, with irregular fractures filled with greyish green shale giving a brecciated appearance.
- 5' Limestone - greyish white, crystalline, fossiliferous, clean, doubtful intercrystalline porosity.
- 3' Limestone - greyish white to light grey, crystalline, fractured, fossiliferous, bleeding live oil from scattered pores and vugs.
- 3' Limestone - light grey, crystalline, fossiliferous, with stylolitic partings and irregular fractures filled with greyish green, non calcareous shale, brecciated appearance.
- 11' Limestone - light grey, dense to microcrystalline, irregular fractures and stylolitic partings; slight oil bleeding from scattered pores and vugs at 2461' and 2464'.

Core No. 4 2471' - 2481' Rec. 9.9'

- 9.9' Limestone - light grey, dense to microcrystalline, irregular fractures filled with greyish green non calcareous shale which look like thin zones of breccia; stylolitic partings; no oil staining; core has a sulphurous odor; no apparent porosity; two inch band of dark green non calcareous shale at base.

Core No. 5 2481' - 2508' Rec. 27.5'

- 10' Limestone - light grey, dense to microcrystalline, few irregular fractures filled with green shale, vertical open fractures and stylolitic partings.
- 3' Breccia composed of limestone and shale, as above.
- 6' Limestone - light buff, dense to crystalline, with stylolitic partings, hard and tight.
- 0.5' Breccia composed of dolomite - brown, finely crystalline and shale, olive green, waxy, non calcareous.
- 3' Dolomite - brown to greyish brown, finely crystalline, hard and tight, irregularly fractured, few bituminous partings.
- 5' Dolomite - dark brown, finely crystalline, scattered good porosity, bubbled gas when core was pulled; interbedded tight, very argillaceous zones.

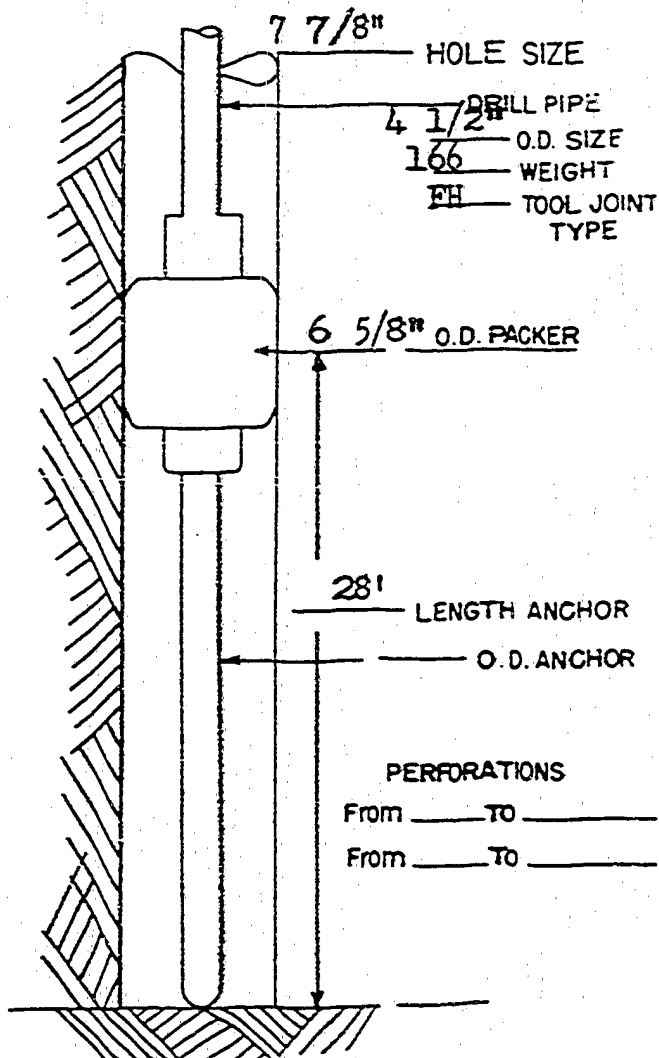
Core No. 6 2509' - 2519' Rec. 9.8'

- 9.8' Dolomite - dark brown, finely crystalline, good intercrystalline porosity, few scattered vugs containing white dolomite crystals.

DRILL STEM TEST REPORT

20.

Well Name Briggs NE Tathlina Well No. Lake #9 TEST No. 1 Run No. 1
 Field Wildcat District NE Tathlina Lake
 Testing Company United Testers Limited Province Northwest Territories
 Date Commenced April 3, 1959 Operator C. Hank
 Date Completed April 3, 1959



Formation Tested Presqu'ile Dolomite
 Section Tested. From 2498 To 2526 ft.
 Mud Properties: Wt. 10.9 Vis. 83 sec.
 Filtrate 4.8 c.c. Filter Cake 2/32 Gel
 Water Cushion - ft.
 Type of Packer Straddle
 Choke Size, surface - Bottom Hole 1/2"

Time	Remarks
4:00 p.m.	Tester started in hole
5:30 p.m.	Tester on bottom Initial shut in 28 min
6:00 p.m.	Tester opened Final
7:00 p.m.	Tester closed Initial shut in 18 min
7:18 p.m.	Tester pulled loose
9:30 p.m.	Tester out of hole
1 hour	Total time tester open

Weight:
 Set on Packer 20000 lbs. Pull Packer Loose 2000 lbs.
 Weight drill pipe Before Test 43000 After Test 44000
 Mud level in casing Full
 Nature of Blow Good air blow throughout
 Maximum Surface Pressure -
 Maximum Trap Pressure -

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

Recovery in Drill Pipe:

	stands	feet	bbls.	Remarks
Free oil	-	-	-	-
Mud	60	feet	.9	Gassy
Water	197	feet	2.8	Gassified sulphurous salt water, oil flecked at top.
Gravity of oil	-	° API @	-	° F.
Oil sample obtained	-	-	-	Water sample obtained No

Pressures:

Type of pressure bomb (s) used	Kuster AK-1
Maximum Flowing Pressure	162 PSI
18 Minute Shut in Pressure	1047 PSI
Static Mud Pressure after unseating packer	1442 PSI
Mechanically, was Test satisfactory?	Yes

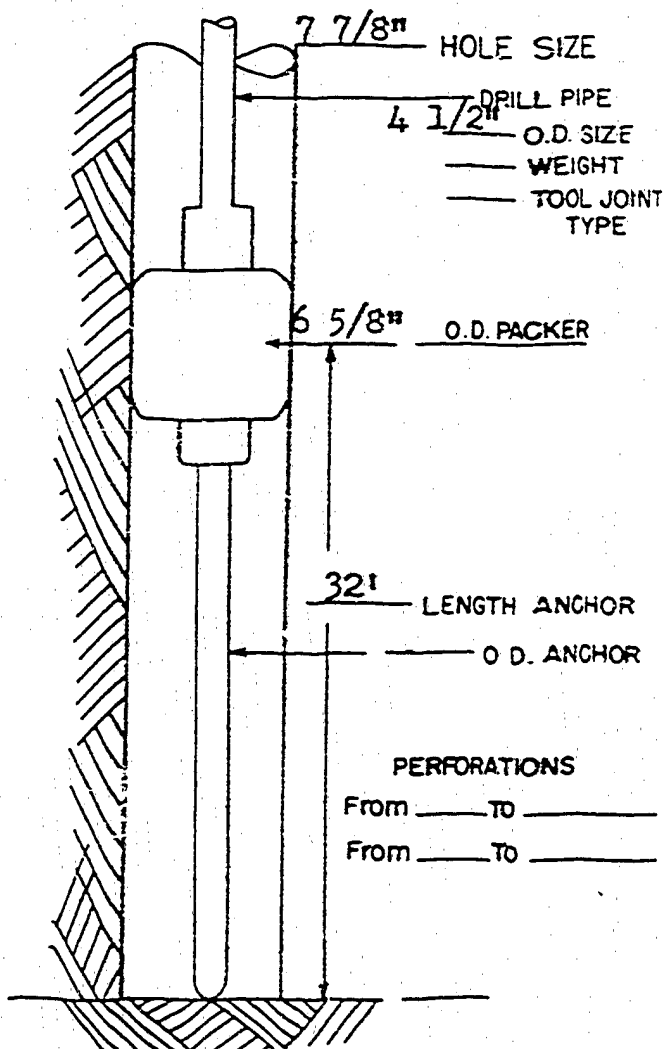
REMARKS:

Initial shut in 1100 psi

Engineer: Norman Soul
 J. C. SPROULE & ASSOCIATES, CALGARY.

DRILL STEM TEST REPORT

TEST No. 2 Run No. 1
 Well Name Briggs NE Tathlina Well No. Lake #9 District NE Tathlina Lake
 Field Wildcat Province Northwest Territories
 Testing Company United Testers Limited Operator C. Hank
 Date Commenced April 4, 1959 Date Completed April 4, 1959



Formation Tested Presquile Limestone
 Section Tested. From 2436 To 2468 ft.
 Mud Properties: Wt. 10.5 Vis. 135 sec.
 Filtrate 6.4 c.c. Filter Cake 2/32 Gel
 Water Cushion - ft.
 Type of Packer Straddle
 Choke Size, surface - Bottom Hole 1/2"

Time	Remarks
Tester started in hole 1:15 p.m.	
Tester on bottom 2:45 p.m.	Initial shut in 1/2 hour
Tester opened 3:15 p.m.	
Tester closed 4:15 p.m.	Final shut in 15 minutes
Tester pulled loose 4:30 p.m.	
Tester out of hole 6:45 p.m.	
Total time tester open 1 hour	

Weight:

Set on Packer 20000 lbs. Pull Packer Loose 50000 lbs.
 Weight drill pipe Before Test 47000 After Test 47000
 Mud level in casing Full
 Nature of Blow Small air blow throughout
 Maximum Surface Pressure -
 Maximum Trap Pressure -

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

Recovery in Drill Pipe:

Remarks

Free oil	stands	feet	bbls.	
Mud	stands	feet	bbls.	
Water	1 1/2	stands	90	feet 1.3 bbls. Oil flecked salt water, sulphurous
Gravity of oil	° API @ °F.			
Oil sample obtained	Water sample obtained <u>x</u>			

Pressures:

Type of pressure bomb (s) used Kuster AK-1
 Maximum Flowing Pressure 65 PSI
15 Minute Shut in Pressure 1079 1069 PSI - arel
 Static Mud Pressure after unseating packer 1100 PSI
 Mechanically, was Test satisfactory? Yes

REMARKS:

Initial shut in 1079 psi

Engineer: Norman Soul
 J. C. SPROULE & ASSOCIATES, CALGARY.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

10568 - 114th Street Edmonton, Alberta
Phones 25624 and 42562

2706 Centre Street N., Calgary, Alberta
Phone 76149

WATER ANALYSIS REPORT

Field Tathlina Lake, Northwest Territories. Well No. Briggs NE Tathlina Lake No. 9
Operator J.C. Spoule & Associates Location 60°43'05"N Lat. 117°22'17" W Long.
Sampled by Date Received April 10, 1959
Formation Presqu'ille Limestone Depths 2436' - 2468' How Sampled D.S.T.
Other pertinent data D.S.T. Number 2. V.O. 1 hour Recovered 90' salt water,
April 6, 1959.
Analyzed by Chemical & Geological Labs. Ltd. Date April 20, 1959 Lab. No. C-2155

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na & K	Ca	Mg	Fe	SO ₄	Cl	CO ₂	HCO ₃	OH	H ₂ S
18,782	3,991	1,461		1012	39,000		940		

MILLIGRAM EQUIVALENTS

817.03	199.35	120.09		21.05	1099.80		15.42		
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MILLIGRAM EQUIVALENTS IN PERCENT

35.95	8.76	5.29		0.93	48.40		0.67		
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Total Solids in Parts
per Million

By evaporation 71,265
After ignition 61,700
Calculated 64,709

Specific Gravity 1.052

Observed pH 7.4

Resistivity 0.133 ohm meters @ 68° F. (Calculated)

Properties of Reaction in
Percent

Primary salinity 71.90

Secondary salinity 26.76

Primary alkalinity ---

Secondary alkalinity 1.34

Chloride salinity 98.11

Sulfate salinity 1.89

Remarks and conclusions Organic matter present.

GEOLOGICAL AND ENGINEERING SUMMARY

Well Name: Briggs Northeast Tathlina Lake No. 9

Location: Latitude 60° 43' 05" N.
Longitude 117° 22' 17" W.

Briggs Northeast Tathlina Lake No. 9 is located one mile northeast of Briggs Northeast Tathlina Lake No. 7. It was drilled to further delineate the north pinchout edge of the Presqu'ile dolomite reef which is known to thin from 284 feet in Northeast Tathlina Lake No. 3 to 81 feet in Northeast Tathlina Lake No. 7. The reef was found to be 35 feet thick in the present test and yielded 257 feet of gassified salt water in a one-hour test. The top of the reef is 5 feet lower in Northeast Tathlina Lake No. 9 than in Northeast Tathlina Lake No. 7.

The hole was cored from 2386 feet to 2519 feet, which includes the basal four feet of the Slave Point Formation, 110 feet of Presqu'ile limestone, and 19 feet of Presqu'ile dolomite. The Presqu'ile limestone which had some oil staining and bleeding yielded 90 feet of salt water in a one-hour test of the interval 2436 feet to 2468 feet.

The well was drilled to a total depth of 2928 feet, seven feet into the Precambrian basement and was plugged and abandoned in accordance with government regulations.

Norman Soul
Norman Soul, P. Eng.

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

May 6, 1959

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

EDMONTON, ALBERTA

PHONES: 25624
42562D. Todd Briggs Nominee Account c/o FULL DIAMETER CORE STUDY
OPERATOR J.C. Sproule & Associates FIELD Tathlina Lake, N.W.T.

WELL NO. N. Tathlina Lake Number 9

LOCATION

FORMATION

DEPTHS

2435.2-2518.6

DATE

Apr. 24/59

LAB NO.

K14068

Footage of formation cored

94.0'

No. of representative samples selected for analysis

22

FEET OF CORE

Received at laboratory for analysis

52.3'

Compared (to tested samples)

Not received

41.7'

Dense sections not represented

25.1'

Represented by samples

27.2'

Badly fractured sections not represented

SUMMARY OF REPRESENTED SECTIONS:(1) $\frac{\text{represented}}{\text{received}} = \frac{27.2}{52.3}$ (2) $\frac{\text{represented}}{\text{cored}} = \frac{27.2}{94.0}$

Weighted average porosity

7.61

%

Maximum porosity

16.7

%

Weighted average K_H permeability

57.73

md.

Minimum porosity

1.9

%

Weighted average K' permeability

1.27

md.

Maximum K_H permeability

1000+

md.

Weighted average vertical permeability

55.01

md.

Minimum K_H permeability

0.02

md.

Weighted average maximum permeability

57.74

md.

Maximum vertical permeability

1000+

md.

Porosity Feet

206.95

Minimum vertical permeability

0.02

md.

CORE WITH MAXIMUM PERMEABILITY:

10.0 md. or greater

between 1.0 and 9.9 md.
inclusive

less than 1.0 md.

Footage

5.4'

7.0'

14.8'

Weighted average porosity

12.12 %

9.66 %

4.99 %

Weighted average K_H permeability

288.06 md.

1.62 md.

0.22 md.

Weighted average vertical permeability

265.14 md.

1.05 md.

0.19 md.

Porosity feet

65.45

67.61

73.89

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Operator **D. Todd Briggs c/o J.C. Sproule & Associates**Well No. **H. Tathlina Lake Number 9**Lab. No. **EL4068**Date **April 24, 1959.**

Sample Number	Midpoint of Sample in Ft.	Representative of Feet	Footage Rep.	Vertical	Permeability md. K _H K'		% Porosity	Porosity Feet	Description
Core Number 2		2412'-2441'	Recovered 5.8 Feet.						
Not Received	2412.0-2435.2	23.2	---	---	---	---	---	---	---
No Sample	2435.2-2437.0	1.8	---	---	---	---	---	---	D
1	2437.3	2437.0-2437.6	0.6	0.04	0.03	0.02	1.9	1.14	C SI S
2	2438.0	2437.6-2438.5	0.9	0.02	0.03	0.03	2.3	2.34	C SI S
3	2439.0	2438.5-2439.4	0.9	0.03	0.13	0.08	2.1	1.89	C SV SI S
4	2440.4	2439.4-2441.0	1.6	0.15	1.2	0.03	2.9	4.64	C SI S
Core Number 3		2442'-2470'	Recovered 28.4 Feet.						
5	2442.5	2442.0-2443.3	1.3	0.04	0.05	0.04	2.1	2.75	C SI S
6	2443.6	2443.3-2444.4	1.1	0.08	0.04	0.03	3.4	3.74	C SI S
7	2445.1	2444.4-2445.7	1.3	0.02	0.02	0.01	1.9	2.47	C SI S
No Sample	2445.7-2452.5	6.8	---	---	---	---	---	---	D
8	2453.2	2452.5-2453.5	1.0	0.26	0.58	0.34	5.1	5.10	C I S
No Sample	2453.5-2454.7	1.2	---	---	---	---	---	---	D
9	2455.9	2454.7-2456.5	1.8	0.53	0.27	0.16	3.9	7.02	C SV SI S
No Sample	2456.5-2460.9	4.4	---	---	---	---	---	---	D
10	2461.4	2460.9-2462.0	1.1	0.05	0.03	0.03	2.4	2.64	C SI S
No Sample	2462.0-2470.4	8.4	---	---	---	---	---	---	D
Extra Core	---	0.4	---	---	---	---	---	---	---
Core Number 5		2481'-2508'	Recovered 8.5 Feet.						
Not Received	2481.0-2499.5	18.5	---	---	---	---	---	---	---
No Sample	2499.5-2502.0	2.5	---	---	---	---	---	---	D
11	2502.7	2502.0-2503.0	1.0	0.15	0.16	0.11	6.3	6.30	C I S
12	2503.4	2503.0-2504.7	1.7	0.13	63.	0.22	9.8	16.66	C LV SI S
13	2505.0	2504.7-2505.5	0.8	3.9	25.	13.	16.7	13.36	C I S
14	2506.0	2505.5-2506.5	1.0	1.4	1.6	1.1	11.6	11.60	C I S
15	2507.6	2506.5-2508.0	1.5	1.3	2.4	2.3	11.8	17.70	C I S
Core Number 6		2509'-2519'	Recovered 9.6 Feet.						
16	2509.5	2509.0-2510.4	1.4	1000+	1000+	0.97	11.7	16.38	VF V I S
17	2511.2	2510.4-2512.0	1.6	0.56	0.68	0.53	12.0	19.20	C I S
18	2512.6	2512.0-2513.8	1.8	1.0	1.2	0.53	11.8	21.24	C I S

D. Todd Briggs c/o CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Operator J.C. Sproule & Associates

Well No. H. Tethuna Lake Number 9

Lab. No. E14068

Date April 24, 1959.

Sample Number	Midpoint of Sample in Ft.	Representative of Feet	Footage Rep.	Permeability md.			% Porosity	Porosity Feet	Description
				Vertical	K _H	K			
19	2514.1	2513.8-2515.0	1.2	8.22	0.31	0.26	9.1	10.92	C I S
20	2515.6	2515.0-2516.1	1.1	1.8	1.9	1.1	11.3	12.43	C I S
21	2516.4	2516.1-2517.1	1.0	0.06	0.22	0.22	8.4	8.40	C I S
22	2518.1	2517.1-2518.6	1.5	18.	18.	8.7	12.7	19.05	C I S
Missing			0.3						

CODE DESCRIPTION SYMBOLS

- D Dense
- C Cracks
- SI Slightly Intergranular
- S Stained
- SV Slightly Vuggy
- I Intergranular
- LV Large Vugs
- VF Open Vertical Fracture
- V Vuggy
- K_H Maximum Horizontal Permeability
- K Taken 90° to the Horizontal Permeability.

Tathlina Lake No. 9

Report on 17 lots of subsurface Devonian fossils from the District of Mackenzie submitted by H.R. Belyea. NTS 85C, D, E, 95A, B, 96E.

The relevant parts of any manuscript prepared for publication that paraphrase or quote from this report should be referred to the Paleontology Subdivision, Calgary, for possible revision.

Depth & Stratigraphy	Well, Fama & Age	GSC Loc. No.
2,156' Watt Mountain Fm., 4' above base, 26" below top.	Briggs N.E. Tathlina Lake No. 1 60°46'01"N; 117°19'45"W. NTS 85C. <i>Alciophyllum</i> sp. nov. gastropod moulds, indet. age: Probably Givetian (Middle Devonian).	C-9897
2,159' Watt Mountain Fm., 1' above base, 29" below top.	Same well as above <i>Cucetetes</i> sp. age: Ordovician to Permian.	C-9898
2,396' Sulphur Point Fm. 104" above base, 6' below top.	Briggs N.E. Tathlina Lake No. 9 60°43'12"N; 117°22'17"W. NTS 85C. fragment of a large pseudopunctate brachiopod, possibly <i>Megastropria</i> age: Middle Devonian?	C-9899
2,397' Sulphur Point Fm., 103" above base, 7' below top.	Same well fragment of a large nautiloid age: not determined.	C-9901
2,399' Sulphur Point Fm., 101" above base, 9' below top.	Same well stromatoporoids, not studied <i>Dendrostella</i> sp. cf. <i>D. disjuncta</i> (Whiteaves) age: probably Middle Devonian, Givetian.	C-9900
2,414' Sulphur Point Fm., 86' above base, 24" below top.	Same well stromatoporoid, not studied <i>Syringopora</i> sp. <i>Grypophyllum</i> sp. cf. <i>G. mackenziense</i> (Pedder) age: probably Middle/Upper Devonian, <i>Mackenziense</i> Zone?	C-22943
2,438' Sulphur Point Fm., 62' above base, 48' below top.	Same well <i>Stachyodes</i> sp., broad sense <i>Thamnopora</i> sp. <i>Psylacophyllum</i> sp. age: Middle Devonian, probably late Eifelian or Givetian.	C-9902

Depth & Stratigraphy	Well, Fauna & Age	GSC Loc. No.
2,452' Sulphur Point Fm., 48' above base, 62' below top.	Same well stromatoporoids, not studied indeterminate brachiopod fragments age: not determined.	C-9903
2,486' Sulphur Point Fm., 14' above base, 96' below top.	Same well <i>Thamnopora</i> sp. <i>Dohrnophyllum</i> or <i>Psyracophyllum</i> sp. age: Lower Devonian (Siegenian) to Middle Devonian (early Givetian?).	C-9904
2,707' Pine Point Fm., 121' above base, 7' below top.	Briggs Rabbit Lake No. 2 60°54'53"N; 118°49'57"W. NTS 85D. <i>Thamnopora</i> sp. <i>Alveolites</i> sp. <i>Psyracophyllum lonsdaleiiforme</i> Pedder age: Middle Devonian, late Eifelian, <i>dysmorphostrata</i> Zone.	C-7672
2,717' Pine Point Fm., 111' below base, 17' below top.	Same well as above <i>Thamnopora</i> sp. rugose coral, indet. age: Silurian or Devonian.	C-7673
1,805' Ernestina Lake Fm., 2' above base, 1' below top.	CS Laferte River A-66 61°45'07"N; 118°41'29"W. NTS 85E fragment of a large orthoconic nautiloid age: not determined.	C-15924
5,853' Sulphur Point Fm.,	Union Pan Am. Trainor L-59 60°28'33"N; 120°40'50"W. NTS 95A <i>Stachyodes</i> sp. cf. <i>S. thomasciarki</i> Stearn age: probably Middle/Upper Devonian <i>mackenziense</i> Zone to early Frasnian.	C-19211
6,474.5' Sulphur Point Fm., 20.5' above base, 62.5' below top.	Imperial Sun Arrowhead I-46 60°45'37"N; 122°22'47"W. NTS 95B stromatoporoids, not studied <i>Thamnopora</i> sp. <i>Grypophyllum mackenziense</i> (Pedder) age: Middle/Upper Devonian, <i>mackenziense</i> Zone.	C-8946

Depth & Stratigraphy	Well, Fauna & Age	GSC Loc. No.
5,791.5' Sulphur Point Fm., 253.5' above base 97.5' below top.	Murphy-B.O.C. Arrowhead River No. 1 60°50'25"N; 122°05'50"W. NTS 95B. <i>Tamnophyllum richardsoni</i> (Meek)? age: Middle Devonian, late Givetian, <i>Stringocephalus alaskanus</i> to Lower <i>hermanni-cristatus</i> Zone?	C-8998
6,195' Pine Point Fm., 140' above base, 150' below top.	Same well <i>Exilifrons</i> sp. nov. age: Eifelian, probably <i>dysmorphostrota</i> Zone.	C-9002
1,369' Ramparts Fm., (broad sense), 70' above base, 346' below top.	Imperial Norman Wells No. 37X 65°16'57"N; 126°51'50"W. NTS 96E <i>Grypophyllum mackenziense</i> (Pedder) age: Middle/Upper Devonian, <i>mackenziense</i> Zone.	C-9905

Remarks

Psyracophyllum lonsdaleiiforme (C-7672) and the new species of *Exilifrons* (C-9002) are regarded as reliable indices to the late Eifelian *dysmorphostrota* Zone, which, at surface, occurs in the pre-*Leiorhynchus castanea* bearing beds of the Headless, Nahanni and Hume Formations. It is thus probable that the subsurface Pine Point of the Rabbit Lake and Arrowhead River areas is just older than the *Leiorhynchus castanea* bearing beds of the Pine Point Formation of the Great Slave Lake area. *P. lonsdaleiiforme* has also been reported (Pal. Rept. HRB 25 AEHP 71, p. 2) from the subsurface Keg River Formation of the Gulf et al. Trout River D-14 well (C-7153, C-7154).

Good examples of *Grypophyllum mackenziense* occur in the Sulphur Point of the Arrowhead I-46 well (C-8946) and the Ramparts of Norman Wells 37X well (C-9905). The latter identification extends the range of the *mackenziense* Zone in the Norman Wells 37X well to 1,369 feet, giving it a total thickness of at least 208 feet (see Pal. Rept. HRR 28 AEHP 71, p. 2, for further details). *Grypophyllum mackenziense* may also be present in beds assigned to the Sulphur Point Formation in Briggs N.E. Tathlina Lake No. 9 well (C-22943), but the only specimen available has 17x2 septa and a diameter of 9.2 mm whereas normally in adult stages the species has 18x2 to 26x2 septa and a diameter ranging from 9.0 to 19.0 mm. *G. mackenziense* is believed to be a good megafossil index to the Upper *hermanni-cristatus* conodont zone, which, on this continent, is usually accepted as the latest Middle Devonian Zone.

The occurrence of a species comparable with *Dendrostella disjuncta* in C-9900 is of considerable interest in that *D. disjuncta*, sensu stricto, is known only from the older *Stringocephalus*-bearing Methy and Winnipegosis Formations of Alberta and Manitoba respectively.

The *Tennophyllum* from the Sulphur Point Formation of the Murphy-B.O.C. Arrowhead River No. 1 well (C-8998) is worn peripherally and has suspiciously wedge-shaped septa, and can therefore only be questionably referred to the species *T. richardsoni*. If the identification were upheld it would strongly suggest that this part of the Sulphur Point Formation in the Arrowhead River No. 1 well is older than much of the Sulphur Point of other subsurface sections, as current data indicate that the range of *T. richardsoni* entirely predates that of *Grypopyllum mackenziense*.

Alan Pedder.

A.E.H. Pedder

BCR

Paleontology Subdivision
Institute of Sedimentary and Petroleum Geology
Calgary, December 28, 1972.

COMPANY D. TODD BRIGGS

CONTRACTOR PETER BOWDEN DRILLING LTD RIG No. 11

DAILY REPORT

DATE APRIL 6

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

18

Name of Well N.E. TETHLINE LAKE No. 9 K. B. Elev. 919

	FIRST TOUR 12:00 p.m. — 8:00 a.m.							
DEPTH	Start of Tour		Hole Made This Tour				End of Tour	
	2928						2928 TD	
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
CLOG	Time	Interval		Ft. Cut		Ft. Rec'd	Type	
SURVEY	Depth	Degrees Off		Depth	Degrees Off			
	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives
CASING RUN								
PERFORATING	Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.		Shut in		mins.		
	Gas to Surface	min. @				Mcf/d Max.		
	Oil to Surface	min. @				Bbl/d Max.		
	Recovery:	ft.						
		ft.						
ABANDONMENT PLUGS	I.S.I.P.	H.P.	F.P.	S.I.P.				
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS								
	Type	Int.						
REMARKS	19 ⁰⁰ 5 ³⁰ W/O/B							
	5 ³⁰ 6 ⁰⁰ RUN IN TO FEEL FOR PLUG							
	TOP OF PLUG @ 180'							
	6 ⁰⁰ 8 ⁰⁰ TEAR OUT RIG. Rig Rehook							
Operator		Driller <u>A. Mill</u>						

	SECOND TOUR 8:00 a.m. — 4:00 p.m.							
DEPTH	Start of Tour		Hole Made This Tour				End of Tour	
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
CLOG	Time	Interval		Ft. Cut		Ft. Rec'd	Type	
SURVEY	Depth	Degrees Off		Depth	Degrees Off			
	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives
CASING RUN								
PERFORATING	Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.		Shut in		mins.		
	Gas to Surface	min. @				Mcf/d Max.		
	Oil to Surface	min. @				Bbl/d Max.		
	Recovery:	ft.						
		ft.						
ABANDONMENT PLUGS	I.S.I.P.	H.P.	F.P.	S.I.P.				
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS								
	Type	Int.						
REMARKS	8:00 - 4:00 Tearing out							
Operator		Driller						

	THIRD TOUR 4:00 p.m. — 12:00 p.m.							
DEPTH	Start of Tour		Hole Made This Tour				End of Tour	
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
CLOG	Time	Interval		Ft. Cut		Ft. Rec'd	Type	
SURVEY	Depth	Degrees Off		Depth	Degrees Off			
	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives
CASING RUN								
PERFORATING	Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.		Shut in		mins.		
	Gas to Surface	min. @				Mcf/d Max.		
	Oil to Surface	min. @				Bbl/d Max.		
	Recovery:	ft.						
		ft.						
ABANDONMENT PLUGS	I.S.I.P.	H.P.	F.P.	S.I.P.				
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS								
	Type	Int.						
REMARKS								
Operator		Driller						

CONTRACTOR PETER BAWDEN DRILLING LTD RIG No. 11

DAILY REPORT

DATE APRIL 5, 59

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15

Name of Well N.F. TAYLOR LAKE No. 7 K. B. Elev. 919

	FIRST TOUR										SECOND TOUR										THIRD TOUR													
	12:00 p.m. — 8:00 a.m.										8:00 a.m. — 4:00 p.m.										4:00 p.m. — 12:00 p.m.													
DEPTH	Start of Tour			Hole Made This Tour			End of Tour				Start of Tour			Hole Made This Tour			End of Tour				Start of Tour			Hole Made This Tour			End of Tour							
	2866			62			2928				2924						2928																	
TIME	On Bottom			Off Bottom			On Bottom			Off Bottom				On Bottom			Off Bottom				On Bottom			Off Bottom			On Bottom				Off Bottom			
	6			2																														
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.										
	7 7/8	9	GWV		15	130	62	6																										
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.																
	4 1/2	2449.61	30.0	434.09	11.67	2.62																												
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind													
	7:00	10.5	—		10.0	100	Consist																											
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type	Time	Interval	Ft. Cut	Ft. Rec'd	Type	Time	Interval	Ft. Cut	Ft. Rec'd	Type																			
SURVEY	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off																
	2928	0																																
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives										
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type																
ACIDIZING or FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.																
DRILL STEM TESTS	No.	Interval Tested	to	No.	Interval Tested	to	No.	Interval Tested	to	No.	Interval Tested	to	No.	Interval Tested	to	No.	Interval Tested	to																
	Valve Open	min.	Shut in	mins.	Valve Open	min.	Shut in	mins.	Valve Open	min.	Shut in	mins.	Valve Open	min.	Shut in	mins.	Valve Open	min.	Shut in	mins.														
ABANDONMENT PLUGS	Gas to Surface	min.	@	Mcf/d Max.	Gas to Surface	min.	@	Mcf/d Max.	Gas to Surface	min.	@	Mcf/d Max.	Gas to Surface	min.	@	Mcf/d Max.	Gas to Surface	min.	@	Mcf/d Max.														
	Oil to Surface	min.	@	Bbl/d Max.	Oil to Surface	min.	@	Bbl/d Max.	Oil to Surface	min.	@	Bbl/d Max.	Oil to Surface	min.	@	Bbl/d Max.	Oil to Surface	min.	@	Bbl/d Max.														
LOGS	Recovery:	ft.	Recovery:	ft.	Recovery:	ft.	Recovery:	ft.	Recovery:	ft.	Recovery:	ft.	Recovery:	ft.	Recovery:	ft.	Recovery:	ft.																
REMARKS	I.S.I.P.	H.P.	F.P.	S.I.P.	I.S.I.P.	H.P.	F.P.	S.I.P.	I.S.I.P.	H.P.	F.P.	S.I.P.	I.S.I.P.	H.P.	F.P.	S.I.P.	I.S.I.P.	H.P.	F.P.	S.I.P.														
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	No.	Interval	Cement	Additive	Plug Down	Felt At	Time													
	Type	Int.	Type	Int.	Type	Int.	Type	Int.	Type	Int.	Type	Int.	Type	Int.	Type	Int.	Type	Int.	Type	Int.														
	12 1/2" CIRC & CONDITION MUD		1 1/2" FINISH RUNNING IN W/BIT		1 1/2" BEAM & CLEAN OUT TO BOTTOM		1 3/4" DRILLING 7 7/8" HOLE		7 7/8" DRILL SURVEY & RECORD KELLY		7 7/8" PULL OUT TO ABAND.		12 1/2" CIRC & CONDITION MUD		1 1/2" FINISH RUNNING IN W/BIT		1 1/2" BEAM & CLEAN OUT TO BOTTOM		1 3/4" DRILLING 7 7/8" HOLE		7 7/8" DRILL SURVEY & RECORD KELLY		7 7/8" PULL OUT TO ABAND.											
Operator		Driller		Operator		Driller		Operator		Driller		Operator		Driller		Operator		Driller																
A. Mill		A. Payne		16. Carter																														

COMPANY D. T. D. BRIGGS

CONTRACTOR P. Bowden Drilling Ltd RIG No. 22

DAILY REPORT

DATE April 4/59

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2

Name of Well N.E. TATHILINDA LAKE No. 9 K. B. Elev. 9.9

FIRST TOUR		12:00 p.m. — 8:00 a.m.	
DEPTH	Start of Tour	Hole Made This Tour	End of Tour
	2796	60	2856
TIME	On Bottom	Off Bottom	On Bottom
	7 3/4	3 1/2	
BIT RECORD	Size	No.	Type
	7 3/8	8	CONV
DRILL PIPE	Condition	Pt. Wt.	R.P.M.
	in	15	130
MUD RECORD	Ft. Dld.	Bit-hrs.	
	60	7 3/4	
Casing	Size	Stands	Singles
	4 1/2	2889-76	2-62
SURVEY	Drill Collar	Kelly	Core Bbl.
	434.09	29.73	
CASING RUN	Time	Weight	Vis.
	12:00	9.6	150
PERFORATING	Get Str.	pH	Am't Added
	6.2	11.0	5.4, 2305
ACIDIZING or FRACING	Time	Interval	Ft. Cut
			Caustic 50#
DRILL STEM TESTS	Ft. Rec'd	Type	
	200#	SPARK	
ABANDONMENT PLUGS	Depth	Degrees Off	Depth
LOGS	Size	Amount	Set @ K.B.
REMARKS	Wt./Ft.	New/Used	Gde
	Cement	Additives	
	Interval	Shot/Ft.	Type
	Interval	Amount Gals.	Kind
	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.
	No.	Interval Tested	to
	Valve Open	min.	Shut in
	Gas to Surface	min.	@
	Oil to Surface	min.	@
	Recovery:	ft.	
		ft.	
		ft.	
	I.S.I.P.	H.P.	F.P.
	No.	Interval	Cement
	Additive	Plug Down	Felt At
	Type	Int.	
	12-1230	Drill 7 3/8 Hole.	
	1230-1245	Conn. Bit SER, + CHECK B.O.P.	
	1245-800	Drill 7 3/8 Hole.	
	Lost Circulation - 2890-		
	2'-		
	Operator	Driller	H. Carter

SECOND TOUR				8:00 a.m. — 4:00 p.m.			
Start of Tour		Hole Made This Tour		End of Tour			
2856		10		2866			
On Bottom		Off Bottom		On Bottom		Off Bottom	
2		6					
Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-fms.
7 7/8	8	GRIND	PULL	75	130	70	9 3/4
Size	40 Stands	Singles		14 Drill Collar	Kelly 17	Core Bbl.	
4 1/2	2389.76			434.09	39.52		
Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
9:00	10.5	135		11.5			
Time	Interval		Ft. Cut		Ft. Rec'd		Type
Depth	Degrees Off		Depth		Degrees Off		
Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives
Interval	Shot/Ft.		Type		Interval		Shot/Ft.
Interval	Amount Gals.		Kind		Breakdown Press.		Final Press.
No.	Interval Tested		2436		to 2468		STRADDL
Valve Open	60		min.		Shut in 30		mins.
Gas to Surface	min.		@				Mcf/d Max.
Oil to Surface	min.		@				Bbl/d Max.
Recovery:	ft.		90° F Oil Flocked Salty Sulphur				
	ft.		water				
	ft.						
I.S.I.P.	1078		H.P. 15417		F.P. 65		S.I.P. 1064
No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
Type	Inf.						
8:10 DRILLING 7 7/8" HOLE							
10:11 1/2 PULL OUT TO RUN PACKER							
11:12 CHECK BLIND RAMS							
12:00 PICK UP PACKER & MAKE UP SAME							
1:24 RUN IN W/PACKER SLOW							
3:45 4:00 TESTING							
Operator				Driller G. Mill			

THIRD TOUR						4:00 p.m. — 12:00 p.m.					
Start of Tour			Hole Made This Tour			End of Tour					
2866						2866					
On Bottom		Off Bottom		On Bottom		Off Bottom					
Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.				
7 1/2"	9	041U	IN								
Size	33 Stands	Singles	Drill Collar	Kelly	Core Bbl.						
4 1/2"	1902.94		434.09	9025	2.62						
Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind					
11:00	10.1	110	2.2	10	GEL 4000 ± ANTIGLY 1600	injection 2000 Cyran 252					
Time	Interval		Ft. Cut		Ft. Rec'd		Type				
Depth		Degrees Off		Depth		Degrees Off					
Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives				
Interval		Shot/Ft.		Type		Interval		Shot/Ft.		Type	
Interval		Amount Gels.		Kind		Breakdown Press.		Final Press.		Feed Rate Bbls./Min.	
No.	Interval Tested		to								
Valve Open	min.		Shut in		mins.						
Gas to Surface	min.		@			Mcf/d Max.					
Oil to Surface	min.		@			Bbl/d Max.					
Recovery:	ft.										
	ft.										
are	ft.										
I.S.I.P.	H.P.		F.P.		S.I.P.						
No.	Interval	Cement	Additive	Plug Down	Felt At	Time					
Type	Int.										
4-430 TESTING -											
430-530 PULL OUT LIFTER.											
530-615 Log DOWN PACKED.											
615-630 Pull JDS											
130-730 SLIPER LINE											
730-745 BGP CHECK											
745-9 Run IN + 238											
9-12 CIR & COLD MUD @ 238											
Operator			Driller S. Tappin								

COMPANY D. TODD BRIGGSCONTRACTOR P. BAUDEN DRILLING LTD. RIG No. 27

DAILY REPORT

DATE April 3/59BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

(15)

Name of Well N.E. TATHINE LAKE No. 7 K. B. Elev. 919

FIRST TOUR		12:00 p.m. — 8:00 a.m.	
DEPTH	Start of Tour	Hole Made This Tour	End of Tour
	2790	6	2796
TIME	On Bottom	Off Bottom	On Bottom
	3/4	7/4	
BIT RECORD	Size	No.	Type
	7/8	7	DWD
	Condition	Pt. Wt.	R.P.M.
	LOOSE	75	135
	Ft. Dld.	106	11
DRILL PIPE	Size	Stands	Singles
	4 1/2	2328.30	2.62
	Drill Collar	Kelly	Core Bbl.
	434.09	2985	
MUD RECORD	Time	Weight	Vis.
	12:00	10.9	83
	Gel Str.	pH	Am't Added
	4.8	12.0	
CONG	Time	Interval	Ft. Cut
SURVEY	Depth	Degrees Off	Depth
	2756	3/4°	
CASING RUN	Size	Amount	Set @ K.B.
PERFORATING	Interval	Shot/Ft.	Type
ACIDIZING or FRACING	Amount Gals.	Kind	Breakdown Press.
DRILL STEM TESTS	No.	Interval Tested	to
		min.	mins.
	Valve Open		
	Gas to Surface	min.	@ LOGGERS BOTTOM
	Oil to Surface	min.	@ 2796.00
	Recovery:	ft.	MEASURE OUT 2805.36
		ft.	TALLY 2816.56
		ft.	1.14
	I.S.I.P.	H.P.	F.P.
			S.I.P.
ABANDONMENT PLUGS	No.	Interval	Cement
			Additive
LOGS	Type	Int.	
	12-12 ⁴⁵		DRILL 7/8 HOLE
	1245-1 ¹⁵		CIR. SAMPLE
	1 ¹⁵ -130		BLOW KELLY, SURVEY @ 2756
	130-230		PULL OUT TO LOG
	230-3 ⁰⁰		PICK UP w/ LOGGERS
	3 ⁰⁰ -8		Logging w/ SCHLUMBERGER
REMARKS	Operator <u>H. Carter</u> Driller <u>H. Carter</u>		

SECOND TOUR		8:00 a.m. — 4:00 p.m.	
DEPTH	Start of Tour	Hole Made This Tour	End of Tour
	2796		2796
TIME	On Bottom	Off Bottom	On Bottom
		8	
BIT RECORD	Size	No.	Type
	Condition	Pt. Wt.	R.P.M.
	Ft. Dld.		
	Bit-hrs.		
DRILL PIPE	Size	Stands	Singles
	Drill Collar	Kelly	Core Bbl.
MUD RECORD	Time	Weight	Vis.
	Gel Str.	pH	Am't Added
CONG	Time	Interval	Ft. Cut
SURVEY	Depth	Degrees Off	Depth
CASING RUN	Size	Amount	Set @ K.B.
PERFORATING	Interval	Shot/Ft.	Type
ACIDIZING or FRACING	Interval	Amount Gals.	Kind
DRILL STEM TESTS	No.	Interval Tested	to
		min.	mins.
	Valve Open		
	Gas to Surface	min.	@
	Oil to Surface	min.	@
	Recovery:	ft.	
		ft.	
		ft.	
	I.S.I.P.	H.P.	F.P.
			S.I.P.
ABANDONMENT PLUGS	No.	Interval	Cement
			Additive
LOGS	Type	Int.	
	8 ⁰⁰ -2 ¹⁵		FINISH LOGGING BY SCHLUMBERGER
	2 ¹⁵ -4 ⁰⁰		PICK UP & MAKE UP PACKER
REMARKS	Operator <u>E. Milled</u> Driller <u>E. Milled</u>		

THIRD TOUR		4:00 p.m. — 12:00 p.m.	
DEPTH	Start of Tour	Hole Made This Tour	End of Tour
	2796		2796
TIME	On Bottom	Off Bottom	On Bottom
BIT RECORD	Size	No.	Type
	7/8	8	DWD
	Condition	Pt. Wt.	R.P.M.
	RUN	15	180
	Ft. Dld.		
	Bit-hrs.		
DRILL PIPE	Size	Stands	Singles
	4 1/2	2329.49	—
	Drill Collar	Kelly	Core Bbl.
	434.09	2985	SUBMER
MUD RECORD	Time	Weight	Vis.
	Gel Str.	pH	Am't Added
CONG	Time	Interval	Ft. Cut
SURVEY	Depth	Degrees Off	Depth
CASING RUN	Size	Amount	Set @ K.B.
PERFORATING	Interval	Shot/Ft.	Type
ACIDIZING or FRACING	Interval	Amount Gals.	Kind
DRILL STEM TESTS	No.	Interval Tested	to
	1	2498	2526
	Valve Open	60	20
	Gas to Surface	NIL	@
	Oil to Surface	NIL	@
	Recovery:	172 ft.	gas salt water
		85 ft.	mud
		ft.	
	I.S.I.P.	H.P. 1442	F.P. 162
			S.I.P. 104
ABANDONMENT PLUGS	No.	Interval	Cement
			Additive
LOGS	Type	Int.	
	4-530		KUMITE TEST
	530-730		TESTING
	730-930		PULL OUT LAY DOWN PACKER
	930-12		PULL IN W/BUT
			REM @ 2796 2656
REMARKS	Operator <u>E. Milled</u> Driller <u>E. Milled</u>		

COMPANY D. Todd Briggs

DAILY REPORT

DATE April 2/59BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

(14)

CONTRACTOR P. Barden Drake LTD RIG No. 11Name of Well N.E. TATHLINE LAKE No. 9 K. B. Elev. 919

	FIRST TOUR 12:00 p.m. — 8:00 a.m.								SECOND TOUR 8:00 a.m. — 4:00 p.m.								THIRD TOUR 4:00 p.m. — 12:00 p.m.							
	Start of Tour		Hole Made This Tour				End of Tour		Start of Tour		Hole Made This Tour				End of Tour		Start of Tour		Hole Made This Tour				End of Tour	
DEPTH	2647		43				2690		2690		38				2728		2728		62				2790	
TIME	On Bottom		Off Bottom				On Bottom		Off Bottom		On Bottom				Off Bottom		On Bottom		Off Bottom				On Bottom	
BIT RECORD	5 1/4		2 3/4						2 1/2		5 1/2						7 3/4		1 1/4					
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		Time	Weight	Vis.	Gel Str.	pH	Am't Added		
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type				Time	Interval	Ft. Cut	Ft. Rec'd	Type				Time	Interval	Ft. Cut	Ft. Rec'd	Type			
SURVEY	Depth	Degrees Off		Depth	Degrees Off				Depth	Degrees Off		Depth	Degrees Off				Depth	Degrees Off		Depth	Degrees Off			
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde		
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type			Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type			Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type		
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to					No.	Interval Tested		to					No.	Interval Tested		to				
ABANDONMENT PLUGS	Valve Open	min.		Shut in		mins.			Valve Open	min.		Shut in		mins.			Valve Open	min.		Shut in		mins.		
LOGS	Gas to Surface	min.		@		Mcf/d Max.			Gas to Surface	min.		@		Mcf/d Max.			Gas to Surface	min.		@		Mcf/d Max.		
REMARKS	Oil to Surface	min.		@		Bbl/d Max.			Oil to Surface	min.		@		Bbl/d Max.			Oil to Surface	min.		@		Bbl/d Max.		
	Recovery:	ft.							Recovery:	ft.							Recovery:	ft.						
		ft.								ft.								ft.						
		ft.								ft.								ft.						
	I.S.I.P.	H.P.		F.P.		S.I.P.			I.S.I.P.	H.P.		F.P.		S.I.P.			I.S.I.P.	H.P.		F.P.		S.I.P.		
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time		No.	Interval	Cement	Additive	Plug Down	Felt At	Time		No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
	Type	Int.							Type	Int.							Type	Int.						
12-1245	DRILL 7 1/2" Hole																							
1245-115	Casing, SER RIG, B.O.P. CHECK (TIGHT-MAIN STUCK)																							
115-545	DRILL 7 1/2" Hole																							
545-115	City Sample, deep Survey + RIG - Kelling																							
115-630	Tripping out w/ BIT #6																							
630-800	STUCK IN THE HOLE, DRILLING UP 2512'																							
800-912	DRILLING 7 1/2" HOLE																							
912-1012	CHECK BLIND RAMS																							
1012-1112	WELD ON STAND PIPE CLAMPS																							
1112-1212	RUN IN w/ BIT																							
1212-1312	BEAM TIGHT SPOTS - CLEAN OUT TO BOTTOM																							
1312-1412	DRILLING 7 1/2" HOLE																							
1412-1512	DRILLING 7 1/2" HOLE																							
1512-1612	DRILLING 7 1/2" HOLE																							
1612-1712	DRILLING 7 1/2" HOLE																							
1712-1812	DRILLING 7 1/2" HOLE																							
1812-1912	DRILLING 7 1/2" HOLE																							
1912-2012	DRILLING 7 1/2" HOLE																							
2012-2112	DRILLING 7 1/2" HOLE																							
2112-2212	DRILLING 7 1/2" HOLE																							
2212-2312	DRILLING 7 1/2" HOLE																							
2312-2412	DRILLING 7 1/2" HOLE																							
2412-2512	DRILLING 7 1/2" HOLE																							
2512-2612	DRILLING 7 1/2" HOLE																							
2612-2712	DRILLING 7 1/2" HOLE																							
2712-2812	DRILLING 7 1/2" HOLE																							
2812-2912	DRILLING 7 1/2" HOLE																							
2912-3012	DRILLING 7 1/2" HOLE																							
3012-3112	DRILLING 7 1/2" HOLE																							
3112-3212	DRILLING 7 1/2" HOLE																							
3212-3312	DRILLING 7 1/2" HOLE																							
3312-3412	DRILLING 7 1/2" HOLE																							
3412-3512	DRILLING 7 1/2" HOLE																							
3512-3612	DRILLING 7 1/2" HOLE																							
3612-3712	DRILLING 7 1/2" HOLE																							
3712-3812	DRILLING 7 1/2" HOLE																							
3812-3912	DRILLING 7 1/2" HOLE																							
3912-4012	DRILLING 7 1/2" HOLE																							
4012-4112	DRILLING 7 1/2" HOLE																							
4112-4212	DRILLING 7 1/2" HOLE																							
4212-4312	DRILLING 7 1/2" HOLE																							
4312-4412	DRILLING 7 1/2" HOLE																							
4412-4512	DRILLING 7 1/2" HOLE																							
4512-4612	DRILLING 7 1/2" HOLE																							
4612-4712	DRILLING 7 1/2" HOLE																							
4712-4812	DRILLING 7 1/2" HOLE																							
4812-4912	DRILLING 7 1/2" HOLE																							
4912-5012	DRILLING 7 1/2" HOLE																							
5012-5112	DRILLING 7 1/2" HOLE																							
5112-5212	DRILLING 7 1/2" HOLE																							
5212-5312	DRILLING 7 1/2" HOLE																							
5312-5412	DRILLING 7 1/2" HOLE																							
5412-5512	DRILLING 7 1/2" HOLE																							
5512-5612	DRILLING 7 1/2" HOLE																							
5612-5712	DRILLING 7 1/2" HOLE																							
5712-5812	DRILLING 7 1/2" HOLE																							
5812-5912	DRILLING 7 1/2" HOLE																							
5912-6012	DRILLING 7 1/2" HOLE																							
6012-6112	DRILLING 7 1/2" HOLE																							
6112-6212	DRILLING 7 1/2" HOLE																							
6212-6312	DRILLING 7 1/2" HOLE																							
6312-6412	DRILLING 7 1/2" HOLE																							
6412-6512	DRILLING 7 1/2" HOLE																							
6512-6612	DRILLING 7 1/2" HOLE																							
6612-6712	DRILLING 7 1/2" HOLE																							
6712-6812	DRILLING 7 1/2" HOLE																							
6812-6912	DRILLING 7 1/2" HOLE																							
6912-7012	DRILLING 7 1/2" HOLE																							
7012-7112	DRILLING 7 1/2" HOLE																							
7112-7212	DRILLING 7 1/2" HOLE																							
7212-7312	DRILLING 7 1/2" HOLE																							
7312-7412	DRILLING 7 1/2" HOLE																							
7412-7512	DRILLING 7 1/2" HOLE																							
7512-7612	DRILLING 7 1/2" HOLE																							
7612-7712	DRILLING 7 1/2" HOLE																							
7712-7812	DRILLING 7 1/2" HOLE																							
7812-7912	DRILLING 7 1/2" HOLE																							
7912-8012	DRILLING 7 1/2" HOLE																							
8012-8112	DRILLING 7 1/2" HOLE																							
8112-8212	DRILLING 7 1/2" HOLE																							
8212-8312	DRILLING 7 1/2" HOLE																							
8312-8412	DRILLING 7 1/2" HOLE																							
8412-8512	DRILLING 7 1/2" HOLE																							
8512-8612	DRILLING 7 1/2" HOLE																							
8612-8712	DRILLING 7 1/2" HOLE																							
8712-8812	DRILLING 7 1/2" HOLE																							
8812-8912	DRILLING 7 1/2" HOLE																							
8912-9012	DRILLING 7 1/2" HOLE																							
9012-9112	DRILLING 7 1/2" HOLE																							
9112-9212	DRILLING 7 1/2" HOLE																							
9212-9312	DRILLING 7 1/2" HOLE																							
9312-9412	DRILLING 7 1/2" HOLE																							
9412-9512	DRILLING 7 1/2" HOLE																							
9512-9612	DRILLING 7 1/2" HOLE																							
9612-9712	DRILLING 7 1/2" HOLE																							
9712-9812	DRILLING 7 1/2" HOLE																							
9812-9912	DRILLING 7 1/2" HOLE																							
9912-10012	DRILLING 7 1/2" HOLE																							

Operator

Driller

H. Carter

Operator

Driller

E. M. D.

Operator

Driller

H. Carter

COMPANY D. TODD BAIGGSCONTRACTOR P. BAUDEN DRUG LTD RIG No. 21

DAILY REPORT

DATE April 1/59BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

(13)

Name of Well N.E. TATHLINA LAKE No. 9 K. B. Elev. 919

	FIRST TOUR 12:00 p.m. — 8:00 a.m.								SECOND TOUR 8:00 a.m. — 4:00 p.m.								THIRD TOUR 4:00 p.m. — 12:00 p.m.											
DEPTH	Start of Tour		Hole Made This Tour		End of Tour				Start of Tour		Hole Made This Tour		End of Tour				Start of Tour		Hole Made This Tour		End of Tour							
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.				
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.						
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind			Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind					
CONG	Time	Interval	Ft. Cut	Ft. Rec'd	Type					Time	Interval	Ft. Cut	Ft. Rec'd	Type			Time	Interval	Ft. Cut	Ft. Rec'd	Type							
SURVEY	Depth	Degrees Off	Depth	Degrees Off					Depth	Degrees Off	Depth	Degrees Off					Depth	Degrees Off	Depth	Degrees Off								
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives				
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type			Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type			Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type						
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.						
DRILL STEM TESTS	No.	Interval Tested	to	min.	Shut in	mins.			No.	Interval Tested	to	min.	Shut in	mins.			No.	Interval Tested	to	min.	Shut in	mins.						
	Gas to Surface	min.	@			Mcf/d Max.			Gas to Surface	min.	@			Mcf/d Max.			Gas to Surface	min.	@			Mcf/d Max.						
	Oil to Surface	min.	@			Bbl/d Max.			Oil to Surface	min.	@			Bbl/d Max.			Oil to Surface	min.	@			Bbl/d Max.						
	Recovery:	ft.								Recovery:	ft.								Recovery:	ft.								
	ft.								ft.								ft.											
	ft.								ft.								ft.											
ABANDONMENT PLUGS	L.S.I.P.	H.P.	F.P.	S.I.P.				L.S.I.P.	H.P.	F.P.	S.I.P.				L.S.I.P.	H.P.	F.P.	S.I.P.				L.S.I.P.	H.P.	F.P.	S.I.P.			
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	No.	Interval	Cement	Additive	Plug Down	Felt At	Time
LOGS	Type	Int.						Type	Int.						Type	Int.						Type	Int.					
REMARKS	12-12³⁰ Finish Pulling out w/7 7/8 Bit 12³⁰-12⁴⁵ Check Blind Rams, (SERVICE RIG) 12⁴⁵-1⁰⁰ Pick up CORE BARREL (SER, BARREL) 1⁰⁰-2⁰⁰ Running in w/ CORE BARREL 2⁰⁰-2³⁰ CIR, CORE BARREL 2³⁰-7⁰⁰ Cutting CORE #6 7⁰⁰-7¹⁵ BREAK OF CORE, Blow Kelly Operator Driller <u>H. Carter</u>																											
	8⁰⁰ 8³⁰ PULL OUT w/CORE 8³⁰ 9¹⁵ RECOVER CORE SERVICE B.B.H. + Lay Down Same 9¹⁵ 9³⁰ RIG SERVICE + B.O.P. CHECK 9³⁰ 10⁴⁵ RUN IN w/BIT 10⁴⁵ 11⁰⁰ BREAK PIPE 11⁰⁰ 12¹⁵ BEHOLD G.O. TO TOP OF RAT HOLE 12¹⁵ 12⁴⁵ PULL OUT 6 1/4" RATHOLE TO 7 7/8" HOLE 12⁴⁵ 4⁰⁰ DRILLING 7 7/8" HOLE Operator Driller <u>A. Mill</u>																											
	4-4¹⁵ Run SER & B.O.P. CHECK 4¹⁵ 12⁰⁰ DRUG 7 1/2" HOLE Operator Driller <u>E. Byrne</u>																											

COMPANY D. TODD BRIGGS

CONTRACTOR P. BARDEN DRAKE LTD. RIG No. 11

DAILY REPORT

DATE Mar 31/59

Name of Well N.E. TATHKIND LAKE No. 9 K. B. Elev. 919

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

(12)

	FIRST TOUR								SECOND TOUR								THIRD TOUR																																																							
	12:00 p.m. — 8:00 a.m.				8:00 a.m. — 4:00 p.m.				4:00 p.m. — 12:00 p.m.																																																															
DEPTH	Start of Tour		Hole Made This Tour		End of Tour				Start of Tour		Hole Made This Tour		End of Tour				Start of Tour		Hole Made This Tour		End of Tour																																																			
	2481		Cored 9		2490				2490		Cored 18		2508				2471		Reamed 32 Drills		2499																																																			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom																																																			
	4 3/4		3 1/4						7 1/4		1 1/2						1 3/4		6 1/4																																																					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-lrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-lrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-lrs.																																																
	6 1/8	RR-18	◇	Run in	5	80	9	4 3/4	6 1/8	RR-18	◇	Good	5	80	27	12 1/4	7 7/8	1 RB	250		10	160																																																		
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.								Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.								Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.																																								
	4 1/2	2269.26	2987	126.14	28.99	35.74								4 1/2	2329.36		126.14	16.76	35.74	4 1/2	2329.03		126.14	23.73																																																
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind								Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind								Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind																																					
	7:30	10.7	80		12.0	50% Rayflo	50% Cons. T.C.								11:00	10.5	110		11.5	MP-10-TFL	100								9:00	10.5	110		11.5	50% Rayflo	50% Cons. T.C.																																					
	Time	Interval		Ft. Cut		Ft. Rec'd		Type								Time	Interval		Ft. Cut		Ft. Rec'd		Type								Time	Interval		Ft. Cut		Ft. Rec'd		Type																																		
		2481-2490		9				◇								8:30	2490-2508		18				◇																																																	
SURVEY	Depth				Degrees Off				Depth				Degrees Off				Depth				Degrees Off				Depth				Degrees Off																																											
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives								Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives								Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives																																		
PERFORATING	Interval		Shot/Ft.		Type		Interval		Shot/Ft.		Type									Interval		Shot/Ft.		Type		Interval		Shot/Ft.		Type																																										
ACIDIZING or FRACING	Interval		Amount Gals.		Kind		Breakdown Press.		Final Press.		Feed Rate Bbls./Min.									Interval		Amount Gals.		Kind		Breakdown Press.		Final Press.		Feed Rate Bbls./Min.																																										
DRILL STEM TESTS	No.		Interval Tested		to									No.		Interval Tested		to									No.		Interval Tested		to																																									
	Valve Open		min.		Shut in		min.									Valve Open		min.		Shut in		min.									Valve Open		min.		Shut in		min.																																			
	Gas to Surface		min.		@		Mcf/d Max.									Gas to Surface		min.		@		Mcf/d Max.									Gas to Surface		min.		@		Mcf/d Max.																																			
	Oil to Surface		min.		@		Bbl/d Max.									Oil to Surface		min.		@		Bbl/d Max.									Oil to Surface		min.		@		Bbl/d Max.																																			
	Recovery:		ft.													Recovery:		ft.													Recovery:		ft.																																							
			ft.															ft.															ft.																																							
			ft.															ft.															ft.																																							
ABANDONMENT PLUGS	I.S.I.P.		H.P.		F.P.		S.I.P.									I.S.I.P.		H.P.		F.P.		S.I.P.									I.S.I.P.		H.P.		F.P.		S.I.P.																																			
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time								No.	Interval	Cement	Additive	Plug Down	Felt At	Time								No.	Interval	Cement	Additive	Plug Down	Felt At	Time																																					
LOGS	Type		Int.									Type		Int.									Type		Int.																																															
REMARKS	12-12 ¹⁵ FINISH pulling out w/ CORE #4.																								8 ⁵⁵ 3 ³⁰ CUTTING 0 CORE #5																								9 ⁴⁰ TALL CUT W/ CORE																							
	12 ¹⁵ -12 ³⁰ BREAK DOWN CORE BARREL (RECOVER CORE FROM BARREL)																								3 ³⁰ 3 ⁴⁵ BREAK OFF CABLE + BLOW KELLY																								9 ⁴⁵ 5 RECOVER CORE																							
	12 ³⁰ -1 ⁰⁰ CHECK Blind Rams,																																																																							

COMPANY D. TODD BRIGGS

DAILY REPORT

DATE MAR 30/59BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

(11)

CONTRACTOR P. Bowden DALLARD RIG No. 12Name of Well N.E. TATHANA LAKE No. 9 K. B. Elev. 919

FIRST TOUR 12:00 p.m. — 8:00 a.m.

SECOND TOUR 8:00 a.m. — 4:00 p.m.

THIRD TOUR 4:00 p.m. — 12:00 p.m.

DEPTH	Start of Tour		Hole Made This Tour		End of Tour	
	2444		CORED 20		2464	
TIME	On Bottom		Off Bottom		On Bottom	
	8					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.
	6 1/8	3R	1	in	5-6	80
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.
	4 1/2	2269.26		126.14	32.86	35.74
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added
	100	10.8	97	5.8	12.0	50# RAYFLO
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type	
	12-8	2444-2464	20		1	
SURVEY	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	Now/Used	Gde
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.
DRILL STEM TESTS	No.	Interval Tested	to	min.	Shut in	mins.
ABANDONMENT-PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At
LOGS	Type	Int.				
REMARKS						
	12-8 CUTTING & CORE #3.					
Operator <u>H. Carter</u> Driller <u>H. Carter</u>						

DEPTH	Start of Tour		Hole Made This Tour		End of Tour	
	2444		CORED & REAMED 28 DRILLER		2471	
TIME	On Bottom		Off Bottom		On Bottom	
	3 1/2		4 1/2			
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.
	6 1/8	1B	1	GOOD	5-6	80
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.
	4 1/2	2329.35		126.14	15.51	
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added
	9:00	10.8	85			300# BEEL
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type	
	8:00-10:00	2464-2470	6	28	1	
SURVEY	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	Now/Used	Gde
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.
DRILL STEM TESTS	No.	Interval Tested	to	min.	Shut in	mins.
ABANDONMENT-PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At
LOGS	Type	Int.				
REMARKS						
	8:00-10:00 CUTTING & CORE #3. 10:00-10:30 BREAK OFF CORE & BLOW KELLY. 10:30-11:00 PULL OUT W/ CORE B.B.L. 11:00-11:30 RECOVER CORE & LAY DOWN B.B.L. 11:30-12:00 WORK ON TUMP. 12:00-12:30 RUN IN W/ BIT TO REAM. 12:30-1:00 BREAK CORE. 1:00-1:30 REAM 6 1/8" BOT HOLE TO 7 1/8" HOLE DRILL 1 FT.					
Operator <u>E. Mill</u> Driller <u>E. Mill</u>						

DEPTH	Start of Tour		Hole Made This Tour		End of Tour	
	2471		CORED 10'		2481	
TIME	On Bottom		Off Bottom		On Bottom	
	4 1/4		3 3/4			
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.
	6 1/8	1BRR	1		6-8	80
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.
	4 1/2	2269.26		126.14	19.99	35.79
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added
	7:00	10.7	84		12.0	100# RAYFLO
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type	
	10:00	10.8	95		12.0	25# CAUSTIC
SURVEY	Depth	Degrees Off	Depth	Degrees Off	Depth	Degrees Off
	2471	3/4				
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	Now/Used	Gde
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.
DRILL STEM TESTS	No.	Interval Tested	to	min.	Shut in	mins.
ABANDONMENT-PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At
LOGS	Type	Int.				
REMARKS						
	4-9:00 RIG SERP BOP CHECK. 4:00-4:15 PULL OUT TO CORE 4:15-4:30 RUN IN TO CORE 4:30-4:45 CORE CORE BBL 4:45-5:00 CUTTING & CORE #4 2471-81 5:00-5:15 BLOW KELLY BREAK OFF CORE 5:15-5:30 PULL CORE NO 4.					
Operator <u>J. Payne</u> Driller <u>J. Payne</u>						

COMPANY D. Todd Briggs

CONTRACTOR P. Bawden DRILL LTD RIG No. 22

DAILY REPORT

DATE MAR 29/59

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

10

Name of Well N.E. TATHLINA LAKE No. 9 K. B. Elev. 919

	FIRST TOUR								SECOND TOUR								THIRD TOUR																			
	12:00 p.m. — 8:00 a.m.				8:00 a.m. — 4:00 p.m.				4:00 p.m. — 12:00 p.m.																											
DEPTH	Start of Tour		Hole Made This Tour		End of Tour				Start of Tour		Hole Made This Tour		End of Tour				Start of Tour		Hole Made This Tour		End of Tour															
	2414		19		2433				2433		CORED & REAMED 20'		2441				2441		REAMED & CORED 2'		2444															
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom															
	8								4 1/2		3 1/2																									
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.												
	6 1/8	1B	Q	in	5	80	21	9 1/2	6 1/8	1-B	Q	Good	5	80	29	12 3/4	7 3/4	1RR	OSC	Fair	5	160	120	1 1/4												
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.							Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.												
	4 1/2	2209.02	30.19	126.14	30.90	35.74							4 1/2	2269.26		126.14	36.60		4 1/2	2269.26		126.14	12.86	35.74												
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind							Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind																
	12:00	11.2	69	4.4	12.0									9:00	10.9	58		12																		
CORING	Time	Interval		Ft. Cut		Ft. Rec'd		Type							Time	Interval		Ft. Cut		Ft. Rec'd		Type														
	12:00-8:00	(2414-2433)		29				Q							8:00-11:00	2433-2441		8		29		Q														
SURVEY	Depth	Degrees Off		Depth		Degrees Off								Depth	Degrees Off		Depth		Degrees Off																	
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives							Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives														
PERFORATING	Interval	Shot/Ft.		Type		Interval		Shot/Ft.		Type							Interval	Shot/Ft.		Type		Interval		Shot/Ft.		Type										
ACIDIZING or FRACING	Interval	Amount Gals.		Kind		Breakdown Press.		Final Press.		Feed Rate Bbls./Min.							Interval	Amount Gals.		Kind		Breakdown Press.		Final Press.		Feed Rate Bbls./Min.										
DRILL STEM TESTS	No.	Interval Tested		to								No.	Interval Tested		to								No.	Interval Tested		to										
	Valve Open	min.		Shut in		mins.								Valve Open	min.		Shut in		mins.								Valve Open	min.		Shut in		mins.				
	Gas to Surface	min.		@		Mcf/d Max.								Gas to Surface	min.		@		Mcf/d Max.								Gas to Surface	min.		@		Mcf/d Max.				
	Oil to Surface	min.		@		Bbl/d Max.								Oil to Surface	min.		@		Bbl/d Max.								Oil to Surface	min.		@		Bbl/d Max.				
	Recovery:	ft.												Recovery:	ft.												Recovery:	ft.								
		ft.													ft.													ft.								
		ft.													ft.													ft.								
ABANDONMENT PLUGS	I.S.I.P.	H.P.		F.P.		S.I.P.								I.S.I.P.	H.P.		F.P.		S.I.P.								I.S.I.P.	H.P.		F.P.		S.I.P.				
LOGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time							No.	Interval	Cement	Additive	Plug Down	Felt At	Time							No.	Interval	Cement	Additive	Plug Down	Felt At	Time			
REMARKS	Type	Int.							Type							Int.							Type							Int.						
	12:00-8:00	Cutting & Core #2 (2414-2433)							8:00-11:00							CUTTING & CORE #2							4:00-8:00							4-4:30 RIGGER						
									11:00-12:00							BREAK OF CORE & BLOW KELLY							4:15-4:30							FINISH REAMING DRUG 1'						
									12:00-12:30							PULL OUT W/ CORE B.B.L.							12:00-12:30							CIRCO GOOD MUD						
									12:30-1:00							RECOVER CORE & LAY DOWN B.B.L.							1:00-1:30							BLOW KELLY						
									1:00-1:30							RUN IN W/ BIT TO REAM.							1:30-2:00							PULL OUT TO CORE						
									2:00-2:30							BREAK CIRCO							2:00-2:30							REPAIR DRUMS						
									2:30-3:00							REAMING 6 1/8" RAT HOLE TO 7 3/8" HOLE							2:30-3:													

COMPANY D. Todd Briggs

DAILY REPORT

DATE MAR 28/52

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

9

CONTRACTOR P. Bawden DAHL LTD. RIG No. 11

Name of Well N.E. TATHUMA LAKE No. 9 K. B. Elev. 919

	FIRST TOUR 12:00 p.m. — 8:00 a.m.							
DEPTH	Start of Tour		Hole Made This Tour			End of Tour		
	2386		14			2400		
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
	7 3/4		1/4					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
	6 1/8	1B	CHRISTEN	GEN	5-6	85	14	
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
	4 1/2	2209.02		126.14	29.10	35.74		
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
	1:00	11.0	76		12.0			
CORING	Time	Interval		Ft. Cut		Ft. Rec'd		Type
		2386-2400		14				
SURVEY	Depth	Degrees Off		Depth	Degrees Off			
	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives
CASING RUN								
	Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type
PERFORATING	Interval		Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	
ACIDIZING or FRACING								
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.		Shut in		mins.		
ABANDONMENT PLUGS	Gas to Surface		min.	@	Mcf/d Max.			
	Oil to Surface		min.	@	Bbl/d Max.			
LOGS	Recovery:		ft.					
			ft.					
REMARKS	I.S.I.P.		H.P.		F.P.		S.I.P.	
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	

12-12¹⁶ RIG SER.
12¹⁵ 8 O CORING #1 (2386-2400)

Operator _____ Driller G. Payne

SECOND TOUR 8:00 a.m. — 4:00 p.m.								
Start of Tour		Hole Made This Tour			End of Tour			
2400		27 4			2390			
On Bottom		Off Bottom		On Bottom		Off Bottom		
4		4						
Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	
6 1/8	1B	CHRISTEN	GEN	5-6	80	25	10 3/4	
7 7/8	6RR	OSC	GEN	5	110	4	15	
Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			
4 1/2	2209.02		126.14	40.35	35.74			
Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		
9:00	11.2	65	5.2	11.5				
11:00	11.2	63	5.0	11.5				
Time	Interval		Ft. Cut		Ft. Rec'd		Type	
8:00-11:30	2400-2411		11				O	
Depth	Degrees Off		Depth	Degrees Off				
Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	
Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type	
Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			
No.	Interval Tested		to					
Valve Open	min.		Shut in		mins.			
Gas to Surface	min.		@	Mcf/d Max.				
Oil to Surface	min.		@	Bbl/d Max.				
Recovery:	ft.		REMAINING w/ 7 7/8 BIT.					
		ft.						
		ft.						
I.S.I.P.	H.P.		F.P.		S.I.P.			
No.	Interval	Cement	Additive	Plug Down	Felt At	Time		

8-1130 O CORING #1 (2400-2411).
11:30-11:45 BREAK OF CORE + BLOW KELLY.
11:45-12:30 PICK OUT w/ CORE #1.
12:30-1:30 BREAK down CORE BARREL (RETRIEVE CORE FROM BARREL)
1:30-2:00 Slip DRILLING LINE (23')
2:00-2:15 SER. TRAVELING BLOCKS.
2:15-3:15 RUNNING IN TO REAM OUT 6 1/8 RATHOLE.
3:15-3:30 CIR. CLEAR OUT TO TOP OF RATHOLE.

Operator _____ Driller H. Carter

THIRD TOUR 4:00 p.m. — 12:00 p.m.								
Start of Tour		Hole Made This Tour			End of Tour			
2390		1 2 21			2414			
On Bottom		Off Bottom		On Bottom		Off Bottom		
2 3/4		5 3/4						
Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	
9 7/8	6RR	OSC	FAIR	5	160	25	14	
1 1/8	1B	CHRISTEN	GEN	5	80	21	1 1/2	
Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			
4 1/2	2209.02	30.19	126.14	12.91	35.74			
Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		
			W.H.			50# RAUFLD		
11:00	10.8	69	4.4	12.0		50# CAUSTIC		
Time	Interval		Ft. Cut		Ft. Rec'd		Type	
10:30-12:00	2412-2414		21				O	
Depth	Degrees Off		Depth	Degrees Off				
Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	
Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type	
Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			
No.	Interval Tested		to					
Valve Open	min.		Shut in		mins.			
Gas to Surface	min.		@	Mcf/d Max.				
Oil to Surface	min.		@	Bbl/d Max.				
Recovery:	ft.		10:30-12:00 CUTTING O CORE #2					
		ft.						
		ft.						
I.S.I.P.	H.P.		F.P.		S.I.P.			
No.	Interval	Cement	Additive	Plug Down	Felt At	Time		

4:00-4:15 RIG SER.
4:15-5:00 REAMING 6 1/8 RATHOLE TO 7 7/8 HOLE.
5:00-5:15 CIR SAMPLE
5:15-6:30 PICK OUT TO RUN CORE B.B.H.
6:30-8:15 CHANGE HEADS + LINERS IN PUMP.
8:15-9:00 PICK UP CORE B.B.H.
9:00-10:15 RUN IN w/ CORE B.B.H.
10:15-10:30 CIR. THROUGH CORE B.B.H.

Operator _____ Driller E. m. all

COMPANY D. Todd Briggs

CONTRACTOR P. Bowden DRUG RIG No. 11

DAILY REPORT

DATE MAR 27/59

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

②

Name of Well NE. TATHANA LAKE No. 9 K. B. Elev. 919 FP

	FIRST TOUR 12:00 p.m. — 8:00 a.m.							
DEPTH	Start of Tour		Hole Made This Tour		End of Tour			
	2193		67		2260			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
	4 1/2		3 1/2					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
	7 7/8	4	OSC-3	DRILLER'S	15	130	389	10
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
	4 1/2	178.67	—	439.09	3961	2.62		
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
	1:00	11.5	56		12.0			
CORING	Time	Interval	Ft. Cut		Ft. Rec'd	Type		
SURVEY	Depth	Degrees Off	Depth		Degrees Off			
	2235	3 1/4						
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type		
ACIDIZING or FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.	Shut in		mins.			
	Gas to Surface	min.	@		Mcf/d Max.			
	Oil to Surface	min.	@		Bbl/d Max.			
	Recovery:	ft.						
		ft.						
		ft.						
	I.S.I.P.	H.P.	F.P.	S.I.P.				
ABANDONMENT PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS	Type	Int.						

REMARKS
12-12:15 RIG SER.
12:15-3 DRUG 7 7/8" HOLE 6-6 1/2" BEAN TO BOTTOM
3-3:15 CIRC SAMPLE 1 1/2" 8" DRUG 7 7/8" HOLE
3:15-3:30 DROP SURVEY
3:30-4:00 PULL OUT DRUGS
4:00-4:15 CHECK RAMS
4:15-5:15 RUN IN BIT 1/2"
5:15-6:00 BREAK CIRC
Operator _____ Driller S. Payne

	SECOND TOUR 8:00 a.m. — 4:00 p.m.							
DEPTH	Start of Tour		Hole Made This Tour		End of Tour			
	2260		122		2382			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
	7 1/2		1 1/2					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
	7 7/8	5	OSC	IN	15	125	147	9 1/4
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
	4 1/2	1909.00	2.62	434.09	3635			
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
	8:00	11.5	60		11.0		1600 Gel	
CORING	Time	Interval	Ft. Cut		Ft. Rec'd	Type		
						CIPAN 15" 140" Rayflo 150" CowTre		
SURVEY	Depth	Degrees Off	Depth		Degrees Off			
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type		
ACIDIZING or FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.	Shut in		mins.			
	Gas to Surface	min.	@		Mcf/d Max.			
	Oil to Surface	min.	@		Bbl/d Max.			
	Recovery:	ft.						
		ft.						
		ft.						
	I.S.I.P.	H.P.	F.P.	S.I.P.				
ABANDONMENT PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS	Type	Int.						

REMARKS
8-8:30 RIG SER + B.O.P CHECK, G.W. mud Tanks
8:30-4:00 DRUG 7 7/8" HOLE
Operator _____ Driller H. Carter

	THIRD TOUR 4:00 p.m. — 12:00 p.m.							
DEPTH	Start of Tour		Hole Made This Tour		End of Tour			
	2382		4		2386			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
	3 1/4		7 1/4					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
	7 7/8	5	OSC	DULL & LOOSE	30	125	151	9 1/2
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
	4 1/2	1908.94	2.62	434.09	4035			
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
	4:00	10.9	61		12.0			
CORING	Time	Interval	Ft. Cut		Ft. Rec'd	Type		
SURVEY	Depth	Degrees Off	Depth		Degrees Off			
	2386	3 1/4						
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type		
ACIDIZING or FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.	Shut in		mins.			
	Gas to Surface	min.	@		Mcf/d Max.			
	Oil to Surface	min.	@		Bbl/d Max.			
	Recovery:	ft.						
		ft.						
		ft.						
	I.S.I.P.	H.P.	F.P.	S.I.P.				
ABANDONMENT PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS	Type	Int.						

REMARKS
4:00-4:15 DRILLING 7 7/8" HOLE
4:15-4:40 CIRC. SAMPLE
4:40-5:00 DROP SURVEY + REW. KELLY
5:00-6:15 PULL OUT TO RUN J. SUR + MAGNET D.S.I.M.
6:15-6:40 PICK UP 10 SINGLES
6:40-8:00 RUN IN W/ MAGNET + J. SUR.
8:00-9:30 CIRC. & WORK J. SUR + MAGNET.
9:30-9:45 PULL OUT W/ J. SUR + MAGNET
Operator _____ Driller E. Mill

COMPANY D. TODD BRIGGS

CONTRACTOR P. BAUDEN DRLG RIG No. 11

DAILY REPORT

DATE MAR 26/59

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE) (7)

Name of Well NE TATHLAWA LAKE No. 9 K. B. Elev. 919

	FIRST TOUR 12:00 p.m. — 8:00 a.m.							
DEPTH	Start of Tour		Hole Made This Tour		End of Tour			
	1431		294		1727			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
	7 3/4		1/4					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
	7 7/8	3	OSC-3	Run	15	130	535	13 3/4
DRILL PIPE	Size	Stands	21	Angles	14	Drill Collar	Sub	Kelly D
	4 1/2	125037	434.09	2.62	39.92			
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
	12:00	11.3	82					
	7:00	11.6	62					
CORING	Time	Interval		Ft. Cut		Ft. Rec'd		Type
SURVEY	Depth	Degrees Off		Depth	Degrees Off			
	1727	3/4		1817	3/4			
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives
PERFORATING	Interval	Shot/Ft.		Type		Interval		Shot/Ft.
ACIDIZING or FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.		Shut in		mins.		
	Gas to Surface	min.		@		Mcf/d Max.		
	Oil to Surface	min.		@		Bbl/d Max.		
	Recovery:	ft.						
		ft.						
		ft.						
ABANDONMENT PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS	Type	Int.						
	12-12.5	RIG SER						
	12-12.8	DRLG 7 7/8" HOLE						
REMARKS								
	Operator <u>E. Payne</u> Driller <u>E. Payne</u>							

	SECOND TOUR 8:00 a.m. — 4:00 p.m.							
DEPTH	Start of Tour		Hole Made This Tour		End of Tour			
	1727		119		1846			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
	4		4					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
	7 7/8	3	OSC-3	Loose	15	135	654	17 3/4
	7 7/8	4	OSC-3	Run				
DRILL PIPE	Size	Stands	Sub	Singles	Drill Collar	Kelly	Core Bbl.	
	4 1/2	1364.93	2.62	434.09	40.35			
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
	8:00	11.5	55		11.5	50	SODIUM	
	4:00	11.0	50		11.8	5	CARBONATE	
CORING	Time	Interval		Ft. Cut		Ft. Rec'd		Type
SURVEY	Depth	Degrees Off		Depth	Degrees Off			
	1727	3/4		1817	3/4			
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives
PERFORATING	Interval	Shot/Ft.		Type		Interval		Shot/Ft.
ACIDIZING or FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.		Shut in		mins.		
	Gas to Surface	min.		@		Mcf/d Max.		
	Oil to Surface	min.		@		Bbl/d Max.		
	Recovery:	ft.						
		ft.						
		ft.						
ABANDONMENT PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS	Type	Int.						
	8-8:30	RIG SER + B.O.Z CHECK						
	8:30-9:30	Work on 375 meter (change oil filter)						
		Repair also oil filter line						
	9:30-1:30	DRLG 7 7/8" HOLE						
	1:30-1:45	Drop Survey + Run Kelly						
	1:45-2:30	Trip out to change bits						
	2:30-3:00	CHECK Blind Rams, CLEAN Suction Tank						
		CHANGE oil filter on pump meter.						
REMARKS	Operator <u>H. Carter</u> Driller <u>H. Carter</u>							

	THIRD TOUR 4:00 p.m. — 12:00 p.m.							
DEPTH	Start of Tour		Hole Made This Tour		End of Tour			
	1846		347		2193			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom	
	7 3/4		1/4					
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
	7 7/8	4	OSC-3	IN	15	135	347	7 3/4
DRILL PIPE	Size	Sub	Stands	19	Singles	14	Drill Collar	Kelly
	4 1/2	2.62	1729.02	434.69	27.27			
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
	7:00	11.2	50		12.0	1200	REL.	
	11:00	11.3	55		12.0	150	CRUSTIC	
CORING	Time	Interval		Ft. Cut		Ft. Rec'd		Type
SURVEY	Depth	Degrees Off		Depth	Degrees Off			
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives
PERFORATING	Interval	Shot/Ft.		Type		Interval		Shot/Ft.
ACIDIZING or FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested		to				
	Valve Open	min.		Shut in		mins.		
	Gas to Surface	min.		@		Mcf/d Max.		
	Oil to Surface	min.		@		Bbl/d Max.		
	Recovery:	ft.						
		ft.						
		ft.						
ABANDONMENT PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
LOGS	Type	Int.						
	4:00-4:15	RIG SERVICE						
	4:15-12:00	DRILLING 7 7/8" HOLE						
REMARKS	Operator <u>E. Mill</u> Driller <u>E. Mill</u>							

COMPANY D TDD BRIGGS

CONTRACTOR P. Bowden DRLG RIG No. 11

DAILY REPORT

DATE MAR 25/59

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

6

Name of Well N.E. TATNEINA LAKE No. 9 K. B. Elev. 919

FIRST TOUR		12:00 p.m. — 8:00 a.m.	
DEPTH	Start of Tour	Hole Made This Tour	End of Tour
	589	291	980
TIME	On Bottom	Off Bottom	On Bottom
	7	1	
BIT RECORD	Size	No.	Type
	7 7/8	2	CSC-3
DRILL PIPE	Condition	Pt. Wt.	R.P.M.
	Run	15	120
MUD RECORD	Ft. Dld.	Bit-lrs.	
	441	10	
Casing	Size	Stands	Singles
	4 1/2	420	—
SURVEY	Drill Collar	Kelly	Core Bbl.
	434.65	26.89	
CASING RUN	Time	Weight	Vis.
	12:00	4.3	52
PERFORATING	Gel Str.	pH	Am't Added
			50 lb
ACIDIZING or FRACING	Time	Interval	Ft. Cat
DRILL STEM TESTS	Ft. Rec'd	Type	
ABANDONMENT PLUGS LOGS	Depth	Degrees Off	Depth
REMARKS	Size	Amount	Set @ K.B.
	Wt./Ft.	New/Used	Gde
	Cement	Additives	
	Interval	Shot/Ft.	Type
	Interval	Amount Gals.	Kind
	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.
	No.	Interval Tested	to
	Valve Open	min.	Shut in
	Gas to Surface	min.	@
	Oil to Surface	min.	@
	Recovery:	ft.	
		ft.	
		ft.	
	I.S.I.P.	H.P.	F.P.
	No.	Interval	Cement
	Additive	Plug Down	Felt At
	Type	Int.	
	12-12:15 Rig Set.		
	12:51:15 DRAG.		
	1:02 TRIP TO PICK UP DE'S		
	2:00 DRAG.		
	Operator		
	Driller		

SECOND TOUR				8:00 a.m. — 4:00 p.m.			
Start of Tour		Hole Made This Tour		End of Tour			
885		295		1175			
On Bottom		Off Bottom		On Bottom		Off Bottom	
7 3/4		3/4					
Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-lrs.
7 3/4	2	MSC-3	IN	15	130	736	17 3/4
Size	Stands	Singles	Drill Collar		Kelly	Core Bbl.	
4 1/2	718.13		434.09		22.78		
Time	Weight	Via	Gel Str.	pH	Am't Added	Kind	
8.00	10.1	44		11.1	700#	Gel	
4.00	10.4	55		12.0	50#	MY 1/2 Gel	
Time	Interval		Ft. Cut		Ft. Rec'd	Type	
					100#	RAYFLO	
					120#	Coke-Tp	
Depth	924'	Degrees Off	1/2	Depth	Degrees Off		
Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives
Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type		
Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
No.	Interval Tested		to				
Valve Open	min.		Shut in		mins.		
Gas to Surface	min.		@		Mcf/d Max.		
Oil to Surface	min.		@		Bbl/d Max.		
Recovery:	ft.						
	ft.						
	ft.						
I.S.I.P.	H.P.		F.P.		S.I.P.		
No.	Interval	Cement	Additive	Plug Down	Fall At	Time	
Type	Int.						
8-8 ¹⁵ RIG START CHECK B.C.P.'S. 8 ¹⁵ -8 ⁴⁵ DRILL 7 3/4 HOLE. 8 ⁴⁵ -9 ¹⁵ C.R. SURVEY @ 924 RETRIEVE W/ WIRE LINE. 9 ¹⁵ -4 ⁰⁰ DRILL 7 3/4 HOLE.							
Operator				Driller H. Carter			

THIRD TOUR				4:00 p.m. — 12:00 p.m.			
Start of Tour		Hole Made This Tour		End of Tour			
11 75		256		1431			
On Bottom		Off Bottom		On Bottom		Off Bottom	
6 1/4		1 3/4					
Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Est-hrs.
7 7/8	2	OSC-3	DULL	15	130	753	17 1/2
7 7/8	3	OSC-3	1/N	15	130	239	
Size	11. Stands	Singles		1/4 Drill Collar		Kelly D.	Core Bbl.
4 1/2"	954.07			434.09		40.20	
Time	Weight	Vs.	Get Str.	pH	Am't Added	Kind	
8 00	10.5	53		12.0	120 ^{oz}	MY-20-GFL	
11 00	10.8	58		12	25 ^{oz}	CAUSTIC	
Time	Interval		Ft. Cut		Ft. Rec'd	Type	
Depth	Degrees Off		Depth		Degrees Off		
1192	1/2°						
Size	Amount	Set @ K.S.	Wt./Ft.	New/Used	Sde	Cement	Additives
Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type
Interval	Amount Gals.		Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	
No.	Interval Tested			to			
Valve Open	min.		Shut in		mins.		
Gas to Surface	min.		@		Mcf/d Max.		
Oil to Surface	min.		@		Bbl/d Max.		
Recovery:	ft.						
	ft.						
	ft.						
I.S.I.P.	H.P.		F.P.		S.I.P.		
No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
Type	Int.						
4 ¹⁴ 4 ¹² DRILLING 7 7/8" HOLE							
4 ¹² 4 ³⁰ DROP SURVEY + RIG SERVICE							
4 ³⁰ 5 ¹² PULL OUT TO CHANGE BITS							
5 ¹² 5 ³⁰ CHECK BLIND ARMS							
5 ³⁰ 6 ⁰⁰ RUN IN W/ BIT.							
6 ⁰⁰ 12 ⁴⁰ DRILLING 7 7/8" HOLE							
Operator _____ Driller E. Mill							

COMPANY D. Todd Briggs

DAILY REPORT

DATE MAR 24/59

BOARD COPY

(TO BE SENT TO BOARD FIELD OFFICE)

⑤

CONTRACTOR P. BOWEN DRILLING RIG No. 11Name of Well NE. TATHANA LAKE No. 9 K. B. Elev. 919

	FIRST TOUR 12:00 p.m. — 8:00 a.m.								SECOND TOUR 8:00 a.m. — 4:00 p.m.								THIRD TOUR 4:00 p.m. — 12:00 p.m.							
	Start of Tour		Hole Made This Tour				End of Tour		Start of Tour		Hole Made This Tour				End of Tour		Start of Tour		Hole Made This Tour				End of Tour	
DEPTH	439								439								439		150				589	
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom		On Bottom		Off Bottom	
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.		
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type				Time	Interval	Ft. Cut	Ft. Rec'd	Type				Time	Interval	Ft. Cut	Ft. Rec'd	Type			
SURVEY	Depth	Degrees Off	Depth	Degrees Off					Depth	Degrees Off	Depth	Degrees Off					Depth	Degrees Off	Depth	Degrees Off				
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement	Additives
PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type			Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type			Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type		
ACIDIZING or FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.		
DRILL STEM TESTS	No.	Interval Tested	to	min.	Shut in	min.			No.	Interval Tested	to	min.	Shut in	min.			No.	Interval Tested	to	min.	Shut in	min.		
	Valve Open			min.	Shut in	min.			Valve Open			min.	Shut in	min.			Valve Open			min.	Shut in	min.		
	Gas to Surface	min.	@			Mcf/d Max.			Gas to Surface	min.	@			Mcf/d Max.			Gas to Surface	min.	@			Mcf/d Max.		
	Oil to Surface	min.	@			Bbl/d Max.			Oil to Surface	min.	@			Bbl/d Max.			Oil to Surface	min.	@			Bbl/d Max.		
	Recovery:	ft.							Recovery:	ft.							Recovery:	ft.						
	I.S.I.P.	H.P.	F.P.	S.I.P.					I.S.I.P.	H.P.	F.P.	S.I.P.					I.S.I.P.	H.P.	F.P.	S.I.P.				
ABANDONMENT PLUGS LOGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time		No.	Interval	Cement	Additive	Plug Down	Felt At	Time		No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
REMARKS	Type	Int.							Type	Int.							Type	Int.						
	12-4" W/CLE 4" - 8" HEADING UP. 11' TO CISE FINISH FROM K.B.																							
	8-3" FINISH HEADING UP w/ B.O.P's. 3-4" TEST B.O.P's. PRESSURE up on Blind Rams, 100 P.S.I. 15 mins. Held O.K. PRESSURE up on Hydram - 1000 P.S.I. 15 mins. Held O.K.																							
	4-5-4" RUN IN w/DIT 4-5-5" TEST B.O.P. 5-5-6" DRILL OUT CEMENT PLUG & SHOE 6-7-7" RUN IN TO BOTTOM 7-9-9" DISPLACE HOLE & MIX MUD 9-12" DRILLING 7-1/2" HALL																							
Operator	Driller <u>E. Payne</u>																							
Operator	Driller <u>H. Carter</u>																							
Operator	Driller <u>E. M. CO</u>																							

COMPANY D. Todd Brels

DAILY REPORT

DATE MAR 23/59

BOARD COPY

(TO BE SENT TO BOARD
FIELD OFFICE)CONTRACTOR P. B. Borden RIG No. 11Name of Well N.E. TINKING LAKE No. 9 K. B. Elev. 919

(4)

FIRST TOUR 12:00 p.m. — 8:00 a.m.							
Start of Tour		Hole Made This Tour		End of Tour			
807		Reamed 20 - 33		320			
On Bottom		Off Bottom		On Bottom		Off Bottom	
674		13/4					
DEPTH							
TIME							
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Bit-hrs.
	13/4	1	HEMMER REED		5	100	213 15 3/4
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.	
	9 1/2	60:27	2998	186.12	2.16.1	2.62	
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind
	1:00		48			25	CAUSTIC
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type		
	5:00		94			250	CEL
SURVEY	Depth	Degrees Off	Depth	Degrees Off			
	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement
CASING RUN	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type	
	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	
ACIDIZING OR FRACING	No.	Interval Tested	to				
	Valve Open	min.	Shut in	mins.			
DRILL STEM TESTS	Gas to Surface	min.	@	Mcf/d Max.			
	Oil to Surface	min.	@	Bbl/d Max.			
ABANDONMENT PLUGS	Recovery:	ft.					
	I.S.I.P.	H.P.	F.P.	S.I.P.			
LOGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time
	Type	Int.					
REMARKS	12-12.5 Big Ser						
	12.5-1.5 Reaming to 13 3/4						
1.5-1.95 TRIP Tally down Reamer Pickup Bit							
1.45-3.30 Reaming w/ 13 3/4 Bit							
3.30-4 Trip to Drill w/ 7 1/2							
9 4" Used as Conductor Pipe							
4.30-8.00 DRILL 7 1/2 Hole							
Operator _____ Driller <u>E. Payne</u>							

SECOND TOUR 8:00 a.m. — 4:00 p.m.							
Start of Tour		Hole Made This Tour		End of Tour			
300		139		439			
On Bottom		Off Bottom		On Bottom		Off Bottom	
3 1/4		4 3/4					
DEPTH							
TIME							
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Bit-hrs.
	7 1/2	1	OSC	Good	86	150	212 4 3/4
DRILL PIPE	Size	3 Stands	1 Singles	Drill Collar	Kelly	Core Bbl.	
	4 1/2	180.53	30.33	186.12	40.35	2.62	
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind
	8:00		70			200	CEL
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type		
	5:00		73				
SURVEY	Depth	Degrees Off	Depth	Degrees Off			
	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement
CASING RUN	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type	
	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	
ACIDIZING OR FRACING	No.	Interval Tested	to				
	Valve Open	min.	Shut in	mins.			
DRILL STEM TESTS	Gas to Surface	min.	@	Mcf/d Max.			
	Oil to Surface	min.	@	Bbl/d Max.			
ABANDONMENT PLUGS	Recovery:	ft.					
	I.S.I.P.	H.P.	F.P.	S.I.P.			
LOGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time
	Type	Int.					
REMARKS	8-8.15 DRILL 7 1/2 Hole. 130-1.45 Rig To Run 2 5/8 Casing.						
	8.15-8.30 Rig SER + Casing. 1.45-4.00 Run Casing.						
8.30-11.30 DRILL							
11.30-11.45 CIR, deep SURVEY @ 439'							
11.45-12.15 Pull out w/ 7 1/2 Bit. (S.L.M. out of Hole)							
12.15-12.45 Run in w/ 13 3/4 Bit to cement out to Run Casing.							
12.45-1.00 CIR, WORK PIPE.							
1.00-1.30 Pull out w/ 13 3/4 Bit.							
Operator _____ Driller <u>H. Carter</u>							

THIRD TOUR 4:00 p.m. — 12:00 p.m.							
Start of Tour		Hole Made This Tour		End of Tour			
439				439			
On Bottom		Off Bottom		On Bottom		Off Bottom	
		8					
DEPTH							
TIME							
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Bit-hrs.
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.	
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind
CORING	Time	Interval	Ft. Cut	Ft. Rec'd	Type		
SURVEY	Depth	Degrees Off	Depth	Degrees Off			
	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gde	Cement
CASING RUN	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type	
	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	
ACIDIZING OR FRACING	No.	Interval Tested	to				
	Valve Open	min.	Shut in	mins.			
DRILL STEM TESTS	Gas to Surface	min.	@	Mcf/d Max.			
	Oil to Surface	min.	@	Bbl/d Max.			
ABANDONMENT PLUGS	Recovery:	ft.					
	I.S.I.P.	H.P.	F.P.	S.I.P.			
LOGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time
	Type	Int.					
REMARKS	4.40-4.45 Run CEMENT & PUMP DOWN PLUG.						
	4.45-12.00 W/O/C.						
Operator _____ Driller <u>E. Mill</u>							

COMPANY D. Todd Briggs

CONTRACTOR P. B. Anderson Drilling RIG No. 11

DAILY REPORT

DATE MAR 22/59

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE) 3

Name of Well N. TATHLENA LAKE No. 9 K. B. Elev. 919

	FIRST TOUR 12:00 p.m. — 8:00 a.m.								
DEPTH	Start of Tour		Hole Made This Tour			End of Tour			
	111		116			127			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom		
	6 3/4		1 1/4						
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	
	9"	2	OSE	HASTING	3	100	154	11 1/4	
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		
	1:00 5:00		104 96						
CORING	Time	Interval		Ft. Cut		Ft. Rec'd		Type	
SURVEY	Depth	Degrees Off		Depth	Degrees Off				
	130	0		190	99°				
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives	
PERFORATING	Interval	Shot/Ft.		Type		Interval	Shot/Ft.		Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			
DRILL STEM TESTS	No.	Interval Tested		to					
	Valve Open	min.		Shut in		mins.			
	Gas to Surface	min.		@				Mcf/d Max.	
	Oil to Surface	min.		@				Bbl/d Max.	
	Recovery:	ft.							
		ft.							
ABANDONMENT PLUGS	L.S.I.P.	H.P.		F.P.		S.I.P.			
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time		
LOGS	Type	Int.							
REMARKS	12-12:55 Rig SER.								
	12:55-1:15 DRILL 9' Hole.								
	1:15-1:30 SURVEY @ 130' 0								
	1:30-1:45 DRILL								
	1:45-2:00 SURVEY @ 190 7/8								
	2:00-2:15 DRILL								
2:15-2:30 SURVEY									
2:30-2:45 HASTING									
Operator _____ Driller <u>L. P. Rame</u>									

	SECOND TOUR 8:00 a.m. — 4:00 p.m.								
DEPTH	Start of Tour		Hole Made This Tour			End of Tour			
	0		142			142			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom		
	7		1						
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	
	13 3/4	1	REED	IN	8	130	142	7	
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		
	9:00 3:00		90 100			300	Gel		
CORING	Time	Interval		Ft. Cut		Ft. Rec'd		Type	
SURVEY	Depth	Degrees Off		Depth	Degrees Off				
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives	
PERFORATING	Interval	Shot/Ft.		Type		Interval	Shot/Ft.		Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			
DRILL STEM TESTS	No.	Interval Tested		to					
	Valve Open	min.		Shut in		mins.			
	Gas to Surface	min.		@				Mcf/d Max.	
	Oil to Surface	min.		@				Bbl/d Max.	
	Recovery:	ft.							
		ft.							
ABANDONMENT PLUGS	L.S.I.P.	H.P.		F.P.		S.I.P.			
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time		
LOGS	Type	Int.							
REMARKS	8-8:15 FINISH STANDING BACK DRILL COLLARS.								
	8:15-8:30 Rig SER.								
	8:30-9:45 PICK UP 13 3/4 REAMER (MAKE UP SAME).								
	9:45-3:00 REAMING w/ 13 3/4 REAMER.								
	3:00-3:15 REPAIR SWIVEL (TIGHT DOWN MAIN STUDS).								
	3:15-4:00 REAMING								
Operator _____ Driller <u>H. Carter</u>									

	THIRD TOUR 4:00 p.m. — 12:00 p.m.								
DEPTH	Start of Tour		Hole Made This Tour			End of Tour			
	142		REAMED 65			207			
TIME	On Bottom		Off Bottom		On Bottom		Off Bottom		
	7 3/4		1/4						
BIT RECORD	Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Bit-hrs.	
	13 3/4	1	REED	IN	5	130	207	14 3/4	
DRILL PIPE	Size	Stands	Singles	Drill Collar	Kelly	Core Bbl.			
MUD RECORD	Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind		
	6:00 11:00		90 90			400	GEL		
CORING	Time	Interval		Ft. Cut		Ft. Rec'd		Type	
SURVEY	Depth	Degrees Off		Depth	Degrees Off				
CASING RUN	Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives	
PERFORATING	Interval	Shot/Ft.		Type		Interval	Shot/Ft.		Type
ACIDIZING OR FRACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.			
DRILL STEM TESTS	No.	Interval Tested		to					
	Valve Open	min.		Shut in		mins.			
	Gas to Surface	min.		@				Mcf/d Max.	
	Oil to Surface	min.		@				Bbl/d Max.	
	Recovery:	ft.							
		ft.							
ABANDONMENT PLUGS	L.S.I.P.	H.P.		F.P.		S.I.P.			
	No.	Interval	Cement	Additive	Plug Down	Felt At	Time		
LOGS	Type	Int.							
REMARKS	4:00-4:15 RIG SERVICE								
	4:15-12:00 REAMING w/ 13 3/4 REAMER.								
Operator _____ Driller <u>L. Miller</u>									

COMPANY D. Todd BRIGGS

CONTRACTOR PETER BAULDEN DRILLING LTD. RIG No. 11

DAILY REPORT

DATE MAR 21, 59

BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

②

Name of Well M.F. TADULINA LAKE No. 9 K. B. Elev. 919

FIRST TOUR		12:00 p.m. — 8:00 a.m.	
DEPTH	Start of Tour	Hole Made This Tour	End of Tour
	0	29	29
TIME	On Bottom	Off Bottom	On Bottom
	7 1/4	3/4	
BIT RECORD	Size	No.	Type
	9"	B.B.1	OSG-1C
DRILL PIPE	Condition	Pt. Wt.	R.P.M.
	1N	ALL	120
MUD RECORD	Ft. Dld.	Bit-hrs.	
	29	7 1/4	
CODING	Size	Stands	Singles
SURVEY	Drill Collar	Kelly D	Core Bbl.
		29	
CASING RUN	Time	Weight	Vis.
	3 00		48
PERFORATING	Gel Str.	pH	Am't Added
ACIDIZING or FRACING	Kind		
DRILL STEM TESTS	Time	Interval	Ft. Cut
ABANDONMENT PLUGS	Ft. Rec'd	Type	
LOGS	Depth	Degrees Off	Depth
REMARKS	Size	Amount	Set @ K.B.
	Wt./Ft.	New/Used	Gds
	Cement	Additives	
	Interval	Shot/Ft.	Type
	Interval	Amount Gals.	Kind
	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.
	No.	Interval Tested	to
	Valve Open	min.	Start in
	Gas to Surface	min.	@
	Oil to Surface	min.	@
	Recovery:	ft.	
		ft.	
		ft.	
	I.S.I.P.	H.P.	F.P.
	S.I.P.		
	No.	Interval	Cement
	Additive	Plug Down	Felt At
	Time		
	Type	Int.	
	12 00 12 45 WORK ON PUMP MOTOR.		
	12 42 8 00 DRILLING 9" HOLE.		
	(SPUDDER IN @ 12 45 A.M. MAR 21, 59)		
	Operator		
	Driller E. Miller		

SECOND TOUR				8:00 a.m. — 4:00 p.m.			
Start of Tour		Hole Made This Tour		End of Tour			
89		44		73			
On Bottom		Off Bottom		On Bottom		Off Bottom	
6 1/2		1 1/2					
Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dld.	Sht-hrs.
9"	RR-1	CSC-16	L103E	22	120	73	13 1/4
Size	Stands	Singles	Drill Collar	Kelly	Sht-hrs.		
4 1/2		29.71	30.96	9.63	2.62		
Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
11:00		45			610	CEL	
5:00		47			110	PALESTIC	
Time	Interval		Ft. Cut		Ft. Rec'd		Type
Depth	Degrees Off		Depth		Degrees Off		
60'	0						
Size	Amount	Set @ K.B.	Wt. Ft.	New/Used	Gdc	Cement	Additives
Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type
Interval	Amount Gals.		Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	
No.	Interval Tested			to			
Valve Open	min.			Shut in		mins.	
Gas to Surface	min.			@		Mc/d Max.	
Oil to Surface	min.			@		Bbl/d Max.	
Recovery:	ft.						
	ft.						
	ft.						
I.S.P.	H.P.			F.P.		S.I.P.	
No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
Type	Int.						
1-1.5 Reg Set 1.5-2.5 DRILL 9' Hole 2.5-3.5 SURVEY @ 60' ① 3-3.5 Pick Up Collar w/ 2nd & TRY SINGLE 3-3.5 DRILL ② 3-4 TRIP TO CHANGE BITS							
Operator				Driller			
				J. F. Farn			

THIRD TOUR				4:00 p.m. — 12:00 p.m.			
Start of Tour		Hole Made This Tour		End of Tour			
73		38		111'			
On Bottom		Off Bottom		On Bottom		Off Bottom	
Size	No.	Type	Condition	Pt. Wt.	R.P.M.	Ft. Dbl.	Bit-lrs.
9"	2	OSC	14'	ALL	80-120	38	4 1/4
Size	Stands	Singles	3	Drill Collar	Kelly	Core Bbl.	
		546					
		7-62	92-98		15-40		
Time	Weight	Vis.	Gel Str.	pH	Am't Added	Kind	
4:10	/	45			1300#	Gelb	
11:00	/	100			50#	Paste	
Time	Interval		Ft. Cut		Ft. Rec'd	Type	
Depth	Degrees Off		Depth		Degrees Off		
100	1/4						
Size	Amount	Set @ K.B.	Wt./Ft.	New/Used	Gds	Cement	Additives
Interval	Shot/Ft.		Type	Interval	Shot/Ft.		Type
Interval	Amount Gals.		Kod	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.	
No.	Interval Tested			to			
Valve Open	min.			Shot in		mins.	
Gas to Surface	min.			@		Mc/d Max.	
Oil to Surface	min.			@		Bbl/d Max.	
Recovery:	ft.						
	ft.						
	ft.						
I.S.I.P.	H.P.		F.P.		S.I.P.		
No.	Interval	Cement	Additive	Plug Down	Felt At	Time	
Type	Int.						
4-6 Rig SER, + WELD UP CONDUCTOR PIPE. 6-845 DRILLING 9" SURFACE HOLE. 845-900 LAYED DOWN SINGLE + PICK UP 2 DRILL COLLARS 900-1015 CIR. W/CK PIPE + MIX MUD. 1015-1030 SURVEY @ 100' 1030-1200 DRILLING 9" SURFACE HOLE.							
Operator				Driller H. Carter			

COMPANY P. Todd BriggsCONTRACTOR P. Borden RIG No. 11

DAILY REPORT

DATE Mar 20/59BOARD COPY
(TO BE SENT TO BOARD
FIELD OFFICE)

①

Name of Well ETHELING LAKE No. 9 K. B. Elev. 919

FIRST TOUR 12:00 p.m. — 8:00 a.m.

SECOND TOUR 8:00 a.m. — 4:00 p.m.

THIRD TOUR 4:00 p.m. — 12:00 p.m.

Start of Tour Hole Made This Tour End of Tour

Start of Tour Hole Made This Tour End of Tour

Start of Tour Hole Made This Tour End of Tour

On Bottom Off Bottom On Bottom Off Bottom

On Bottom Off Bottom On Bottom Off Bottom

On Bottom Off Bottom On Bottom Off Bottom

Size No. Type Condition Pt. Wt. R.P.M. Ft. Dld. Bit-hrs.

Size No. Type Condition Pt. Wt. R.P.M. Ft. Dld. Bit-hrs.

Size No. Type Condition Pt. Wt. R.P.M. Ft. Dld. Bit-hrs.

Size Stands Singles Drill Collar Kelly Core Bbl.

Size Stands Singles Drill Collar Kelly Core Bbl.

Size Stands Singles Drill Collar Kelly Core Bbl.

Time Weight Vis. Gel Str. pH Am't Added Kind

Time Weight Vis. Gel Str. pH Am't Added Kind

Time Weight Vis. Gel Str. pH Am't Added Kind

Time Interval Ft. Cut Ft. Rec'd Type

Time Interval Ft. Cut Ft. Rec'd Type

Time Interval Ft. Cut Ft. Rec'd Type

Depth Degrees Off Depth Degrees Off

Depth Degrees Off Depth Degrees Off

Depth Degrees Off Depth Degrees Off

Size Amount Set @ K.B. Wt./Ft. New/Used Gds Cement Additives

Size Amount Set @ K.B. Wt./Ft. New/Used Gds Cement Additives

Size Amount Set @ K.B. Wt./Ft. New/Used Gds Cement Additives

Interval Shot/Ft. Type Interval Shot/Ft. Type

Interval Shot/Ft. Type Interval Shot/Ft. Type

Interval Shot/Ft. Type Interval Shot/Ft. Type

Interval Amount Gals. Kind Breakdown Press. Final Press. Feed Rate Bbls./Min.

Interval Amount Gals. Kind Breakdown Press. Final Press. Feed Rate Bbls./Min.

Interval Amount Gals. Kind Breakdown Press. Final Press. Feed Rate Bbls./Min.

No. Interval Tested to

No. Interval Tested to

No. Interval Tested to

Valve Open min. Shut in mins.

Valve Open min. Shut in mins.

Valve Open min. Shut in mins.

Gas to Surface min. @ Mc/d Max.

Gas to Surface min. @ Mc/d Max.

Gas to Surface min. @ Mc/d Max.

Oil to Surface min. @ Bbl/d Max.

Oil to Surface min. @ Bbl/d Max.

Oil to Surface min. @ Bbl/d Max.

Recovery: ft.

Recovery: ft.

Recovery: ft.

ft.

ft.

ft.

ft.

ft.

ft.

I.S.I.P. H.P. F.P. S.I.P.

I.S.I.P. H.P. F.P. S.I.P.

I.S.I.P. H.P. F.P. S.I.P.

No. Interval Cement Additive Plug Down Felt At Time

No. Interval Cement Additive Plug Down Felt At Time

No. Interval Cement Additive Plug Down Felt At Time

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

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Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

Type Int.

REMARKS

Operator

Driller

Operator

Driller

Operator

Driller