Richfield Oil Corp.
et al Grandview Hills
No. 1 A-47

Drilling Authority No. .....
Date Issued .....

WELL NAME Richfield Oil Corp. et al Grandview Hills No. 1 A-47
FIELD Wildcat **Area:** Fort McPherson
LOCATION: Unit A **Section** 47 **Grid** 67 - 10 - 130 - 45
Latitude 67°06'12" N. **Longitude** 130°52'30" W.
From Established Reference Marker .....

Rig Release Date: 2-4-60
Status D & A
Information Release Date 2-4-62

CHANGE OF NAME:

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

file in well file.

THIS IS EXHIBIT "C" ATTACHED
TO AND MADE A PART OF STATUTORY
DECLARATION DATED THE 9th DAY
OF MARCH, A. D. 1960.

Jordan Code

Summary of Drilling Operations conducted by Peter Bawden Drilling Ltd. in drilling the Richfield-et al-Grandview Hills #1 well up to February 15th, 1960.

Peter Bawden Drilling Ltd. Rig #16 started moving from Edmonton in August, 1959. The rig and its supplies were trucked 550 miles by road to Hay River on the south shore of Great Slave Lake. It was then barged 780 miles across the Great Slave Lake and up the MacKenzie River to a landing site, 85 miles northwest of Fort Good Hope. The final move from the landing site to thedrilling location was made in late November when sub-zero temperature enabled tractors to move the rig the required 26 miles.

The daily progress of the Grandview Hills #1 well is as follows:

December 23, 1959	Rig up completed.
December 26, 1959	Well spudded in at 11:45 P. M.
December 31, 1959	Ran E. Log - 600 feet - 13 3/8 inch surface casing ran and cemented to 598 feet K.B.
January 4, 1960	Depth 770 feet - preparing to core.
January 5, 1960	Depth 905 feet - preparing to core.
January 6, 1960	No report.
January 7, 1960	No report.
January 8, 1960	Depth 1,270 feet - cutting core #4 - 1,221 feet - 1,270 feet. DST #1 - 875 feet - 915 feet.
January 9, 1960	Depth 1,560 feet - Core #4 - 1,221 feet - 1,270 feet.

January 10, 1960	Depth 1,720 feet - Core #5 - 1,659 feet - 1,704 feet.
January 11, 1960	No report.
January 12, 1960	Depth 1,941 feet - drilling.
January 13, 1960	Depth 2,120 feet - drilling.
January 14, 1960	Depth 2,195 feet - drilling.
January 15, 1960	Depth 2,305 feet - Core #7 - 2,145 feet - 2,195 feet.
January 16, 1960	Depth 2,414 feet - cutting Core #8.
January 17, 1960	Depth 2,447 feet - tripping.
January 18, 1960	Depth 2,540 feet - Core #8 - 2,414 feet - 2,447 feet.
January 19, 1960	No report.
January 20, 1960	Depth 2,560 feet - Running in to test.
January 20, 1960	DST #2 - 2,525 feet - 2,560 feet.
January 21, 1960	Depth 2,612 feet - drilling.
January 22, 1960	Depth 2,676 feet - drilling.
January 23, 1960	Depth 2,710 feet - DST #3 - 2,650 feet - 2,676 feet.
January 24, 1960	Depth 2,815 feet - DST #4 - 2,672 feet - 2,710 feet.
January 25, 1960	Depth 2,856 feet - drilling.
January 26, 1960	Depth 2,941 feet - drilling.
January 27, 1960	Depth 2,981 feet - Reaming.
January 28, 1960	Depth 3,049 feet - drilling.
January 29, 1960	Depth 3,074 feet - drilling.
January 30, 1960	Depth 3,115 feet - DST #5 - 3,000 feet - 3,070 feet.
January 31, 1960	Depth 3,245 feet - Coring and tripping.

February 1, 1960	No report.
February 2, 1960	Depth 3,349 feet - Tripping.
February 3, 1960	Depth 3,487 feet - Core #13 - 3,319 feet - 3,349 feet.
February 4, 1960	Depth 3,510 feet - Preparing to core.
February 5, 1960	Depth 3,593 feet - Preparing to core.
February 6, 1960	Depth 3,593 feet - Preparing to core.
February 7, 1960	Depth 3,593 feet - Core #14 - 3,545 feet - 3,593 feet.
February 8, 1960	No report.
February 9, 1960	Running in to 3,545 feet.
February 10, 1960	Depth 3,690 feet - Core #15 - 3,593 feet - 3,680 feet.
February 11, 1960	Depth 3,863 feet - drilling.
February 12, 1960	Depth 3,995 feet - Tripping.
February 13, 1960	Depth 4,119 feet - Ran in with junk sub and magnet.
February 14, 1960	Depth 4,169 feet - drilling.
February 15, 1960	Depth 4,236 feet - coring.

As of March 9th, 1960 the well was drilling at 5,503 feet.

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA.

Company - RICHFIELD OIL CORPORATION
Well - RICHFIELD ET AL GRANDVIEW HILLS NO. 1
Field - WILDCAT, NORTHWEST TERRITORIES
Location - 67° 05' N Lat 130° 58' W Long

Date Report - SEPTEMBER 15, 1960
Formation -
D. Fluid - WATER BASE
Analysis - CONVENTIONAL

File - CNP-1-4984
Analysts - NC. WD.
Cores - DIAMOND

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	POROSITY X FEET	VISUAL EXAMINATION
CORED INTERVAL 3140' - 3164'						
Core No. 12 3140' - 3164' (Rec. 24.0')						
-	3140.0-3140.7	0.7	-	-	-	Dense, no sample
1	3140.7-3141.4	0.7	0.1	3.3	2.31	Pin point vugs
2	3141.4-3141.9	0.5	<0.1	1.9	0.95	Few pin point vugs
3	3141.9-3142.3	0.4	0.1	3.1	1.24	Pin point vugs
4	3142.3-3143.2	0.9	<0.1	1.3	1.17	Dense
5	3143.2-3144.1	0.9	<0.1	1.1	0.99	Dense
6	3144.1-3144.5	0.4	0.4	6.7	2.68	Pin point vugs
7	3144.5-3145.3	0.8	0.1	5.5	4.40	Small vugs, pin point vugs
8	3145.3-3145.8	0.5	5.2	6.2	3.10	Small vugs, pin point vugs
9	3145.8-3146.3	0.5	<0.1	4.1	2.05	Small vugs, pin point vugs
10	3146.3-3146.7	0.4	0.9	4.6	1.84	Small vugs, pin point vugs
11	3146.7-3147.5	0.8	<0.1	1.7	1.36	Few pin point vugs
12	3147.5-3148.3	0.8	<0.1	2.9	2.32	Few pin point vugs
13	3148.3-3149.0	0.7	5.2	11.8	8.26	Pin point vugs, intergranular
14	3149.0-3149.8	0.8	0.1	5.9	4.72	Pin point vugs
15	3149.8-3150.4	0.6	<0.1	3.3	1.98	Few pin point vugs
16	3150.4-3151.2	0.8	0.1	4.6	3.68	Pin point vugs
17	3151.2-3151.6	0.4	<0.1	3.9	1.56	Pin point vugs
18	3151.6-3152.4	0.8	<0.1	3.3	2.64	Pin point vugs
19	3152.4-3153.1	0.7	<0.1	2.3	1.61	Pin point vugs
20	3153.1-3153.7	0.6	<0.1	1.6	0.96	Pin point vugs
21	3153.7-3154.7	1.0	<0.1	4.7	4.70	Intergranular
22	3154.7-3155.4	0.7	<0.1	1.3	0.91	Dense

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA.

RICHFIELD OIL CORPORATION
RICHFIELD ET AL GRANDVIEW HILLS NO. 1

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	POROSITY X FEET	VISUAL EXAMINATION
Core No. 12 cont'd.						
23	3155.4-3155.8	0.4	<0.1	3.8	1.52	Pin point vugs
24	3155.8-3156.5	0.7	0.1	4.1	2.87	Pin point vugs
25	3156.5-3157.0	0.5	0.4	5.1	2.55	Pin point vugs
26	3157.0-3158.1	1.1	<0.1	2.8	3.08	Pin point vugs
27	3158.1-3158.9	0.8	0.1	5.8	4.64	Pin point vugs
28	3158.9-3159.7	0.8	0.3	8.0	6.40	Pin point vugs
29	3159.7-3160.9	1.2	<0.1	1.9	2.28	Dense
30	3160.9-3161.8	0.9	9.6	6.9	6.21	Small vugs, pin point vugs
31	3161.8-3162.8	1.0	<0.1	1.9	1.90	Dense
32	3162.8-3163.2	0.4	<0.1	2.1	0.84	Pin point vugs
33	3163.2-3164.0	0.8	<0.1	1.5	1.20	Dense

Core with Permeability 0.0 to less than 0.1 Md.

Total footage of core with permeability 0.0 to less than 0.1 millidarcys	13.7'	
Weighted average porosity of core with permeability 0.0 to less than 0.1 millidarcys	2.37%	(32.46)
Per cent of analyzed core having permeability 0.0 to less than 0.1 millidarcys	58.8%	
Weighted average horizontal permeability of core with permeability 0.0 to less than 0.1 md.	<0.1 md.	

Core with Permeability 0.1 to 0.9 Millidarcys

Total footage of core with 0.1 to 0.9 millidarcys permeability	7.5'	
Weighted average porosity of core with 0.1 to 0.9 millidarcys permeability	5.19%	(38.89)
Per cent of analyzed core having 0.1 to 0.9 millidarcys permeability	32.2%	
Weighted average permeability of core with 0.1 to 0.9 millidarcys	0.2 md.	(1.6)

Core with Permeability 1.0 to 9.9 Millidarcys

Total footage of core with 1.0 to 9.9 millidarcys permeability	2.1'	
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability	8.37%	(17.57)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability	9.0%	
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys	7.1 md.	(15.0)

Core with Permeability 10 Millidarcys and Greater - Nil

Cored Interval	3140' - 3164'	
Total footage	24.0'	
Footage analyzed	23.3'	
Footage not analyzed ---------- Dense 0.7' ----------	0.7'	
Weighted average porosity of core analyzed	3.82%	(88.92)
Weighted average horizontal permeability of core analyzed	0.7 md.	(16.6)

Note: Figures in parentheses indicate porosity feet and permeability feet.

FORM "C"

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

ABANDON

NOTICE OF INTENTION TO or a Well

~~SUSPEND DRILLING~~

(Strike out operation which does not apply)

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

. . . Abandon . . . . . the well named R O Corp et al Grandview Hills #1 on Oil and Gas Permit No. 1637 . . Lease No. . . . . Registered in the name of Arden Oil Limited . . . . . .

Depth . 6555 . feet. Elevation above sea level: Ground surface . 1200 . . . ft. Kelly bushing . 1212.25 . . ft.

Location 67°, 06.2' . . . . . N. Lat. 130°, 52.5' . . . . . W. Long.

. . 4.1 . . . (~~N. of S. boundary~~ / S. of N. boundary) of (Permit No. . . 1637 . . . . / Lease No. . . . .)

. . 3.5 . . . (W. of E. boundary / ~~E. of W. boundary~~) of (Permit No. . . 1637 . . . . / Lease No. . . . .)

Survey description, if available . . . . . .

CASING RECORD

Size O.D. inches	Weight lbs/ft	Grade	Amount feet	Set at feet	Sacks cement	Method	to be withdrawn
1 13-3/8	54	J-55	586	598	600	Displ.	No
2							
3							
4.							

OIL, GAS AND WATER

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

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

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

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

Water from 3000 .feet to 3070 .feet From 2678 .feet to 2710 .feet ~~with . . . . sacks cement.~~

Water from 2650 .feet to 2676 .feet and From 5957 .feet to 5996 .feet ~~with . . . . sacks cement.~~

Surface and bottom plugs:

1. from 5825 .feet to 5750 .feet with 40 .sacks cement.
2. from 3050 .feet to 2938 .feet with 55 .sacks cement.
3. from 2700 / 648 .feet to 2583 / 531 .feet with 60 / 110 .sacks cement.

Date of last operation March 28, 1960 .Total depth 6555

Nature of liquid left in well Drilling Fluid Level from surface surface
~~on suspension~~ or abandonment

The following logs ~~will be~~ have been run Electric Log, Contact Log

Neutron Gamma Ray Log

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

Present condition of well in addition to above Running Final Logs

Prep to abandon.

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

Program of operation not included above Surface casing will be cut 3' below ground level and surface plug run or plate welded on top with 2" pipe marker set 4' above the ground with well name and number marked on same.

Responsible agents of permittee or lessee in charge of operation:

At well J.R. Brown Postal address Norman Wells, NWT.

At registered office R.R. Ritter Postal address 320-7th Avenue West, Calgary.

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

dated at Calgary this 28th day of March 19 60

Signed by R.R. Ritter

This program is approved subject to the following provisions

.....

.....

.....

.....

21 April 1960
Date

for B.H.J. THOMAS
Oil Conservation Engineer

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

FORM "B"

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

For the period from . December 26, 1959

to . April 2, 1960

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

Permit No. 1637

Name of well R.O.Corp et al Grandview Hills # 1 . . . . . Lease No. . . . .

Registered owner . . Aden Oils Limited . . Drilling Company . Peter Bawden . .

Location . 67°, 06.2' . . . . . N. Lat. 130°, 52.5' W. Long.

Survey description, if available . . . . . .

Elevation: Ground . . . . . 1200 . Last previous depth . . . . . .

Kelly bushing. 1212.5 . . . Present depth . . 6555 . . . . . .

Spudded . . December 26, 1959 . . . . Finished drilling Mar. 27/60 Rig Released April 2, 1960. . .

Deviations from vertical . . . . Maximum 2½° - 2900' and 2½° - 4660'. . . . . .

. . . . . .

CASING RECORD

	Date	Size O.D.	Weight lbs/ft	Grade	Set at feet	Sacks Cement	Top of Cement
1	Dec.31	13-3/8	54.5	J-55	598	600	surface
2	....	.....	....	....	....	....	....
3	....	.....	....	....	....	....	....
4	....	.....	....	....	....	....	....

TUBING RECORD

Size	Wt.Lbs/foot	Grade	Amount	Landed Depth	Remarks
....	.....	....	....	....	....
....	.....	N I L		....	....

Wellhead . . . . . .(Manufacturer). . . . (Size). . . .(Series)

N I L

Status of well on completion of drilling . . Prep Plug . . . . . .

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

Cord intervals 770 - 780; 905 - 915; 1221 - 1270; 1659 - 1704; 1896 - 1941;
2145 - 2195; 2414 - 2430; 2540 - 2560; 2710 - 2742; 2947 - 2982; 3140 - 3164;
3319 - 3349; 3545 - 3565; 4119 - 4128; 4210 - 4231; 6520 - 6532 . . . . . .
. . . . . .

Interval logged: E-log 598 - 6503 (3 Runs) Other logs . Widco . 0. - 598. . . . .
R-log 90 - 6500 . . . . . Induction E . 599. - 6501
M-log 598 - 6498 . . . . . Acoustic . 6361. - 580.
Velocity log 598 - 6393. Guard Ring Log . 598. - 6493

The above logs (are) ~~(are not)~~ submitted in accordance with Section 65 of the Regulations.

DRILL STEM TESTS

Test No.	Date	Interval Tested	Duration	Results
1	Jan.7/60	875-915	VO.30 mins, SI30	. . . . .
. . . . .	. . . .	Rec 66' Drilling fluid, FP 40, SIP 40		. . . . .
2	Jan.20/60	2525-2560	VO.45, SI 30	. . . . .
. . . . .	. . . .	Rec 25' gas cut drilling fluid .		FP 70, SIP 690
3	Jan.21/60	2650-2676	VO.75, SI 30	. . . . .
. . . . .	. . . .	Rec 330' Black gas sulphurous water		FP 43-176, SIP 760
4	Jan.22/60	2678-2710	VO.60, SI 30	. . . . .
. . . . .	. . . .	Rec 320' gassy sulphurous salt water		FP 47-172, SIP 762
5	Jan. 29/60	3000-3070	VO 30, SI 35	. . FP 116-324
. . . . .	. . . .	Rec 670' muddy black sulphurous salt water. SIP. 905		
6	Mar.30/60	5957-5996	VO 120, SI 60	SIP . 1850
. . . . .	. . . .	Rec 200' salt water cut drilling fluid. FP. 80-200		
. . . . .	. . . .	. . . . .	. . . . .	. . . . .

(If space insufficient, attach further sheet)

(Strike out the non-applicable) ~~(Completion)~~ ~~(Remark)~~ ~~(Recompletion)~~

Perforations Bullet. . . . . Nil . . . . . .
. . . . . .

Shootings . . . . . Nil . . . . . .

Hydraulic fracturing . . . . Nil . . . . . .

Chemical treatment . . . . . Nil . . . . . .

Date initial production test . Nil . . . . . .

Initial production data . . . . Nil . . . . . .

Pumping or flowing . . . . . .

Plug back . . . . . .

Other . . . . . .NIL. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

CEMENT PLUGS SET

Date	Plug set at	Sacks cement	Method	Top found at
Mar, 31/60	5825-5750 .	40.sxs. . . .	.Displacement	Not felt
Mar,31/60	3050-2950 .	55.sxs. . . .	.Displacement	. 2938. . . .
April 1/60	2700-2600 .	60.sxs. . . .	.Displacement	. 2583. . . .
April 2/60	648-548 . .	110 sxs . . .	.Displacement	. .531. . . .
April 2/60	. surface .	10.sxs. . . .	. . . . .	. . . . .

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

Cores will be stored at . . .Richfield's.Calgary.Storehouse.. . . . . .

Core analysis (was made)of the Intervals 905-915; .2414-2447; 2540-2560
(~~to be made~~)

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

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

Water analysis (was made) of the Intervals.2650-2676; 2678-2710; .3000-3070
(~~to be made~~)

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

ADDITIONAL DETAILS AND COMMENTS

. . . . . .

. . . . . .

. . . . . .

. . . . . .

. . . . . .

Signed. . . . . R. K. Ritter. . . . . Address 320-7th Avenue West, Calgary.

Date . .April.18,.1960 . . . . . .

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

Mr. [illegible]
Mr. Dickson has seen

RICHFIELD OIL CORPORATION

CANADIAN DIVISION

DAILY WELL REPORT

WELL R.O.C. ET AL. CRANDVIEW HILLS #1 DATE Jan. 18/60 FORMATION

DEPTH 3:00 P.M. 2540 PROG. FROM TO IN HRS. DRLG./CORING HOLE

MUD WT. W.L. VISC. F.C. PH

MUD ADDITIVES

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

DRLG. WT. P.P. RPM DR. CLRS.

DRILLING PROCEDURE

MARKERS

SAMPLE AND CORE DESCRIPTION

Core No. 8 - 2414-47 Rec. 33'- Limestone, light buff to medium brown, lithographic to microcrystalline, few stringers light grey, medium brown dolomite. (1st dolomite stringer 2430).

2447-2540 Limestone, light buff to medium brown, dense to microcrystalline with interbedded light brown minor dolomite, traces vuggy porosity at 2540 Bear Rock oily odours fair fluorescence, no visible cut.

DRILL STEM TESTS

DST NO. INTERVAL V.O. S.I. CHOKE BLOW-RECOVERY HP SIP FP

RICHFIELD OIL CORPORATION

CANADIAN DIVISION

DAILY WELL REPORT

WELL R.O.C. ET AL GRANDVIEW HILLS #1 DATE Jan.17/60 FORMATION

DEPTH 2447 PROG. FROM TO IN HRS. DRLG./CORING HOLE

MUD WT. W.L. VISC. F.C. PH

MUD ADDITIVES

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

DRLG. WT. P.P. RPM DR. CLRS.

DRILLING PROCEDURE Tripping.

MARKERS

SAMPLE AND CORE DESCRIPTION

DRILL STEM TESTS

DST NO. INTERVAL V.O. S.I. CHOKE BLOW-RECOVERY HP SIP FP

RICHFIELD OIL CORPORATION

CANADIAN DIVISION

DAILY WELL REPORT

WELL R.O.C. ET AL GRANDVIEW HILLS #1 DATE Jan.16/60 FORMATION

3:00 P.M.

DEPTH 2414 PROG. FROM TO IN HRS. DRLG./CORING HOLE

MUD WT. W.L. VISC. F.C. PH

MUD ADDITIVES

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

DRLG. WT. P.P. RPM DR. CLRS.

DRILLING PROCEDURE

Running in to cut Core #3

MARKERS

SAMPLE AND CORE DESCRIPTION

2195-2414 Limestone, light buff to dark brown, hard, bituminous in part, dense to microcrystalline, lithographic in part.

DRILL STEM TESTS

DST NO. INTERVAL V.O. S.I. CHOKE BLOW-RECOVERY HP SIP FP

Mr A.T. Davidson

RICHFIELD OIL CORPORATION

CANADIAN DIVISION

Dept. of Northern Affairs & National Resources
JAN 7
MAIL R
LAKEVIEW

DAILY WELL REPORT

WELL R.O.C. ET AL GRANDVIEW HILLS #1 DATE Jan. 5/60 FORMATION Imperial

DEPTH 905' PROG. FROM TO IN HRS. DRLG./ CORING HOLE

MUD WT. W.L. VISC. F.C. PH

MUD ADDITIVES

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

BIT NO. SIZE MAKE FOOTAGE FROM TO HRS. COND.

DRLG. WT. P.P. RPM DR. CLRS.

DRILLING PROCEDURE Clean oil stained sand at 885-905 with good porosity.

Will core and test porous interval.

MARKERS

SAMPLE AND CORE DESCRIPTION

NORTHERN ADMINISTRATION
LANDS BRANCH
JAN 8 1960
Office of the Director

DRILL STEM TESTS

DST NO. INTERVAL V.O. S.I. CHOKE BLOW-RECOVERY HP SIP FP

FORM "A"

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION BRANCH

RESOURCES DIVISION

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

or

[redacted]

In accordance with Section 58 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No. 1637. . . registered in the name of Lease No. . . . . .

. . . Aden Oils Limited . . . . . .

TYPE OF WELL:

Wildcat . . . . . X . . . . . .

[redacted] . . . ——— . . . . . .

Expected total depth . 8000. . . . . feet, in the . . . . .

formation of . . Precambrian . . . . age.

The well will be located at 67°. 06.2' . . . . . N. Lat. 130°, 52.5' W.Long.

. . 4.1 miles . ([redacted] (S. of N. boundary)) of (Permit No. . 1637. . . . .) (Lease No. . . . . .)

. . 3.5 miles . (W. of E. boundary) of (Permit No. . 1637. . . . .) ([redacted]) (Lease No. . . . . .)

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

. . . . . .

Approximate surface elevation of . . 1200 . . . . feet above sea level.

Name of well R.O. Corp et al Grandview Hills #1. . . . . .

Type of drilling rig . Emsco . . (Rotary) . . . . . .

Expected date of commencement . . December 25, 1959. . . . . .

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

	Size O.D. Inches	Weight lbs/ft	Grade	Brand	New or Used	Estimated Depth	Sacks of Cement
1.	13-3/8"	54.5	J-55	Smls.	New	600.	450
2.	8-5/8"	24	J-55	To be determined later (if required).			
3.							

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

Imperial - Fort Creek .. 200', Ramparts - 850', Lone ....
Mountain (Bear Rock)- 2050', Ordovician-Sil. - 2700', Cambrian -
3700'. By surface casing, adequate Blowout Prevention Equipment
and over balance of mud column. ....

An electric log will be run Other logs will be run

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

.....N. Latitudes

.....W. Longitudes

An electric log will be run Other logs will be run

Name and address of drilling contractor . Peter Bayden Drilling Ltd. ...
640-7th Avenue S.W. ....
Calgary, Alberta. ....
....

Responsible agents of permittee or lessee in charge of operation:

At well ... J.R. Brown ..... Postal address ..Norman Wells, N.W.T.

At registered office ... R.R. Ritter ..... Postal address 320-7th Avenue West, Calgary.

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

Dated at Calgary this 22nd ... day of ... December 19 59 ...

Signed by R.R. Ritter ....
RICHFIELD OIL CORPORATION

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

....
....
....
....
....
....

23rd December 1959 B.H. Brown ....
Date Oil Conservation Engineer.

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

983-80

Sent KVD 27-8-59

Ottawa, 26 August, 1959.

MEMORANDUM FOR THE DEPUTY MINISTER

Attention: Mr. F.J.G. Cunningham

Scurry Rainbow Oils Ltd. - Grandview Hills No. 1 Well

I attach herewith a copy of a letter dated the 11th of August, 1959, addressed to Mr. A.T. Davidson, Chief, Resources Division, requesting that the above mentioned well be designated as a "deep test exploratory well" in accordance with Section 23A of the Territorial Oil and Gas Regulations.

Also attached is a letter dated the 25th of August, 1959, from the Geological Survey of Canada, which states that the well could reasonably be designated an exploratory deep test well.

I recommend that the Scurry Rainbow Oils Ltd. - Grandview Hills No. 1 Well be designated a deep test exploratory well in accordance with Section 23A of the Territorial Oil and Gas Regulations.

B.G. Siverts,
Director.

TELEPHONE AMherst 9-7991

P.O. BOX 448

SCURRY - RAINBOW OIL LIMITED
539 - 8TH AVENUE WEST
CALGARY, ALBERTA

File: 4.121

August 11, 1959

Dept. of Northern Affairs and Natural Resources
Ottawa, Ontario

Attention: Mr. A. T. Davidson, Chief,
Resources Division

Dear Sirs:

Re: Proposed Wildcat, Northwest Territories
Classification of Exploratory Deep Test

Kindly be advised that Scurry-Rainbow is presently moving drilling equipment into the Northwest Territories preparatory to drilling an exploratory well this winter on its acreage in the Lower Mackenzie River area. Please accept the three copies of this letter as our formal application to have the proposed test classified as an exploratory deep test pursuant to Section 23A of the Territorial Oil and Gas Regulations. In support of our application we enclose a sketch map showing the extent of Scurry-Rainbow holdings on which the proposed well is located being permit numbers 1440 to 1467 incl., 1518 to 1524 incl, 1605 to 1638 incl., 1941 and 1942 containing approximately 3,465,470 acres. Also enclosed is a structure contour map of the base of the Cretaceous in the Grandview Hills area.

The approximate location of the well is 67°05' N Latitude, 130°58' W Longitude. The exact position will be surveyed after the rig is located. The well will be drilled 18 miles west of the Mackenzie River in the Grandview Hills area, approximately 170 miles north west of Norman Wells.

The well is scheduled as a Precambrian test to a depth of 8000 feet. It is expected that the Precambrian will be encountered at a depth of 7000 feet, however, in the event that it is deeper than anticipated the well will be drilled to the Precambrian or to 8000 feet whichever is the lesser.

All porous zones will be tested and selected intervals will be cored. Samples of the bit cuttings will be taken throughout the section penetrated and six different types of electrical surveys will be run including E-logs, Gamma Ray Neutron and Velocity surveys. The access road will be constructed over those permits held by the company. The cost of the well is estimated to be $500,000.

Referring to your letter dated May 21, 1959 wherein you indicate that a copy of the geological report upon which the location of the well is based is required for the application for classification of an exploratory deep test. This report was forwarded to Mr. B.H.J. Thoms at Calgary on April 6, 1959.

In support of our application we are listing below the reasons why we believe that the proposed wildcat should be classified as an exploratory deep test.

1. The well will be located 170 miles from the closest subsurface control in the Norman Wells area and will give valuable new geological information.

2. The well will be drilled to the Precambrian or 8000 feet and will be the first well in the Northwest Territories to penetrate the full stratigraphic section.

Drilling equipment is now moving to Hay River and will be loaded on barges by August 20. It is intended to stack the equipment on the west bank of the Mackenzie River until after freeze up at which time it will be moved to the location. We expect the well to spud on December 15.

We would appreciate an early approval for our request for classification of the proposed wildcat as an exploratory deep test.

Yours very truly

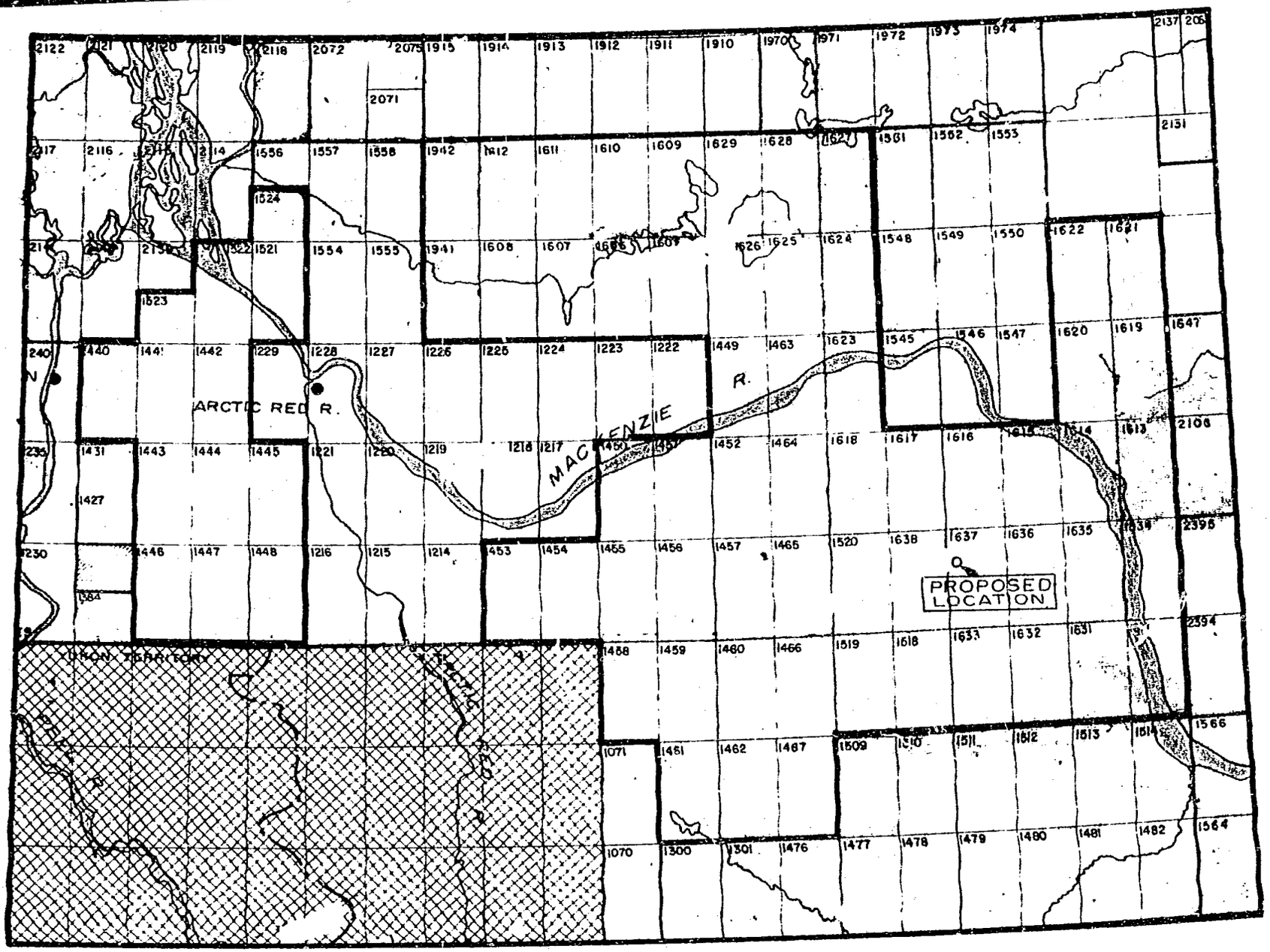
SCURRY-RAINBOW OIL LIMITED

P. W. Rainier
Exploration Department

PWR/rm

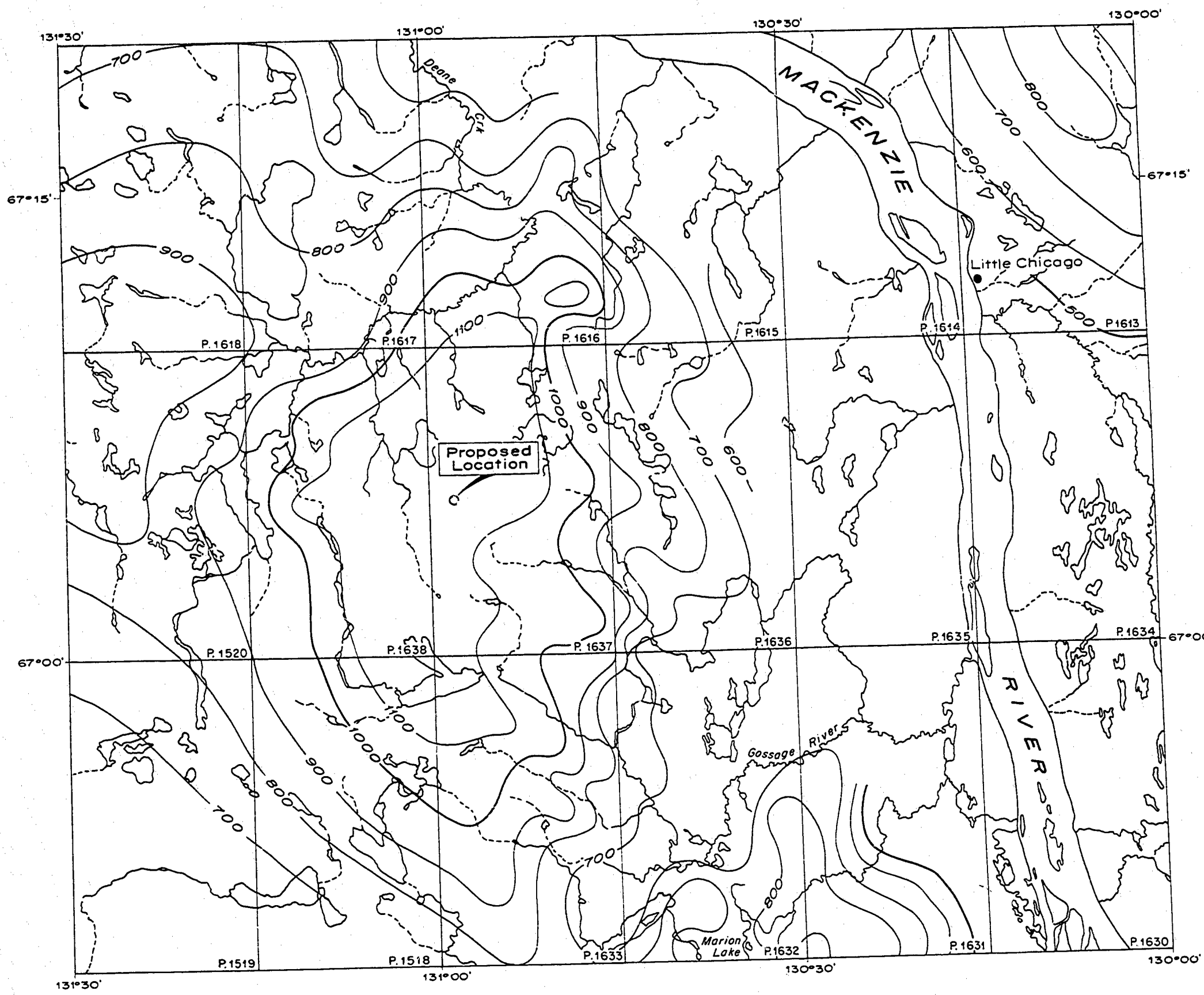
Encls.

CC Mr. B.H.J. Thoms



LOWER MACKENZIE BASIN AREA
NORTHWEST TERRITORIES

PERMITS HELD BY
SCURRY-RAINBOW OIL LIMITED



PROPOSED LOCATION FOR EXPLORATORY DEEP TEST

GRANDVIEW HILLS AREA

LOWER MACKENZIE BASIN AREA
NORTHWEST TERRITORIES

SCURRY - RAINBOW OIL LIMITED

Structure Map Contoured on the Base of the Cretaceous
CONTOUR INTERVAL - 100' DATUM - SEA LEVEL

MILES 5 4 3 2 1 0 5 10 15 20 MILES

67°05' N LAT., 130° 58' W. LONG

An electric log (will / ~~will not~~) be run.

The well will be drilled by: Scurry-Rainbow Oil Limited . . . . (name of company)

CONTRACTOR: Peter Bawden Drilling

Responsible agents of permittee or lessee in charge of operation:

At well P. Greenwood . . . . . At registered office: D.H. Logan . . . . .

Postal address: . . . . . Postal address: 539 - 8th Ave. W., Calgary

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

Dated at Calgary . . . . . this 6th . . . day of August 19 59

Signed by . P.B. Rainier .

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

Your attention is drawn to Section 63 of the Territorial Oil and Gas Regulations. Drilling samples and cores are to be sent to the Geological Survey of Canada, Customs Building, 11th Ave. S.E., Calgary and this office should be informed when they are sent.

11 August, 1959 . . . . . B.H. Thomas . . . . . .

Date Oil Conservation Engineer

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION AND LANDS BRANCH

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

(To be submitted in triplicate to the Conservation Engineer at Edmonton, Alberta at least 15 days prior to the commencement of drilling).

In accordance with Section ~~59~~ 57 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No. 1637 ...registered in the name of Aden Oils Limited.
Lease No. . . . . .

TYPE OF WELL:
Stratigraphic test: .---. .
Structure Test: .---. .
Anticipated number of holes . ---- . .
Expected total depth: . . . .8000 . . feet.

Wildcat: . . X . . .
Development: . . ---- . .
(Required for Structure Test Only)

The well will be located:

.6.miles.....(N of S boundary) (~~S of N boundary~~) of (Permit No.1637.) (~~Lease No.~~ .....) at approx. 67°05'....N Lat.

.6.miles.....(W of E boundary) (~~E of W boundary~~) of (Permit No.1637.) (~~Lease No.~~.....) at approx.130°.58'..W Long.

Survey description of location . Surveyed position by Shoran or Stellar fixes will be ascertained when rig has been moved in to location. . . . . .

Approximate surface elevation of .1300 . . .feet above sea level.

Name of well: ,Scurry-Rainbow et.al Grandview Hills .N.W.T..No.1. . . . . .

Type of drilling rig: . Emsco Rotary Rig. . . . . .

Expected date of commencement: . . December.15,.1959 . . . . . .

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

Size O.D. inches	Weight lbs/feet	Grade	Brand	New or used	Estimated depth	Sacks of cement
1.13 3/8 .	.54.5 . .	.J-55 .	.SL . . .	New . .	.. 600 . .	Cemented to surface
2. 8 5/8 .	.24 . . .	.J-55 .	.SL . . .	New . .	. 2000. . .	At least 250 sacks
3. 5.1/2 .	155 . . .	.J-55 .	Chezk . .	New . .	. 8000. . .	At least 200 sacks

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

.Basal Fort Creek Sandstone . . . . 1000' .(. . . . . .
.Ramparts . . . . . 1050' .(. . Weighted mud. . . . . .
.Bear Rock. . . . . 2000' .(. . and blow out. . . . . .
.Sil-Ordovician . . . . . 2500' .(. . preventors. . . . . .
.Cambrian . . . . . 4100' .(. . . . . .

noted in records.
13-8-59
K.G.B.

(Over)

C A N A D A

DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

NORTHERN ADMINISTRATION AND LANDS BRANCH

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

(To be submitted in triplicate to the Conservation Engineer at Edmonton, Alberta at least 15 days prior to the commencement of drilling).

In accordance with Section ~~59~~ 51 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No.1637 ...registered in the name of Aden Oils Limited.
~~Lease No.~~ . . . . .

TYPE OF WELL:
Stratigraphic test: .~~---~~. .
Structure Test: .~~---~~. .
Anticipated number of holes . ~~---~~ . .
Expected total depth: . . . .8000 . . feet.

Wildcat: . . X . . .
Development: . ~~---~~ . . .
(Required for Structure Test Only)

The well will be located:

.6.miles.....(N of S boundary) (~~S of N boundary~~) of (Permit No1637.) (~~Lease No.~~ ....) at approx. 67°05'....N Lat.

.6.miles.....(W of E boundary) (~~E of W boundary~~) of (Permit No.1637.) (~~Lease No.~~.....) at approx.130°.58'..W Long.

Survey description of location . Surveyed position by Shoran or Stellar fixes will be ascertained when rig has been moved in to location. . . . . .

Approximate surface elevation of .1300 . . .feet above sea level.

Name of well: ,Scurry-Rainbow et al Grandview Hills N.W.T. No.1. . . . . .

Type of drilling rig: . Ensco Rotary Rig. . . . . .

Expected date of commencement: . . December.15,.1959 . . . . . .

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

Size O.D. inches	Weight lbs/feet	Grade	Brand	New or used	Estimated depth	Sacks of cement
1.13 3/8 .	.54.5 . .	.J-55 .	.SL . .	. New . .	.. 600 . .	Cemented to surface
2. 8 5/8 .	.24 . . .	.J-55 .	.SL . .	. New . .	. 2000. . .	At least 250 sacks
3. 5.1/2.	155 . . .	.J-55 .	Chezk .	. New . .	. 8000. . .	At least 200 sacks

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

.Basal.Fort Creek Sandstone . . . . 1000' .(. . . . . .
.Ramparts . . . . . 1050' .(. . Weighted.mud. . . . . .
.Bear Rock. . . . . 2000' .(. . and blow.out. . . . . .
.Sil-Ordovician . . . . . 2500' .(. . preventors. . . . . .
.Cambrian . . . . . 4100' .(. . . . . .

noted in records
13-8-59
A.H.

(Over)

An electric log (will / ~~will not~~) be run.

The well will be drilled by: Scurry-Rainbow Oil Limited . . . . (name of company)

CONTRACTOR: Peter Bawden Drilling

Responsible agents of permittee or lessee in charge of operation:

At well P. Greenwood . . . . . At registered office: D.H. Logan . . . . .

Postal address: . . . . . Postal address: 539 - 8th Ave. W., Calgary

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

Dated at Calgary . . . . this 6th . . . day of August 1959

Signed by . . . . . .

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

Your attention is drawn to Section 63 of the Territorial Oil and Gas Regulations. Drilling samples and cores are to be sent to the Geological Survey of Canada, Customs Building, 11th Ave. S.E., Calgary and this office should be informed when they are sent.

11 August, 1959 . . . . . Oil . . . . . Conservation Engineer

Date

THIS IS EXHIBIT "C" ATTACHED
TO AND MADE A PART OF STATUTORY
DECLARATION DATED THE 23rd DAY
OF NOVEMBER, A. D. 1960.

Jordan Cooke

Summary of Drilling Operations conducted by Peter Bawden Drilling Ltd. in drilling the ROC et al-Grandview Hills #1 well from February 16th, 1960 to April 6th, 1960.

The daily progress of the Grandview Hills #1 well is as follows:

February 16, 1960	No report.
February 17, 1960	Depth 4,381 feet - drilling.
February 18, 1960	No report.
February 19, 1960	Depth 4,551 - tripping.
February 20, 1960	Depth 4,661 - drilling.
February 21, 1960	Depth 4,714 - drilling.
February 22, 1960	Depth 4,826 - drilling.
February 23, 1960	Depth 4,973 - drilling.
February 24, 1960	Depth 5,054 - drilling.
February 25, 1960	Depth 5,103 - logging.
February 26, 1960	Depth 5,122 - reaming.
February 27, 1960	Depth 5,138 - drilling.
February 28, 1960	Depth 5,184 - reaming.
February 29, 1960	Depth 5,193 - drilling.
March 1, 1960	Depth 5,221 - drilling.
March 2, 1960	Depth 5,269 - drilling.
March 3, 1960	Depth 5,327 - drilling.
March 4, 1960	Depth 5,356 - drilling.
March 5, 1960	Depth 5,410 - drilling.
March 6, 1960	Depth 5,459 - drilling.

March 7, 1960	Depth 5,503 - reaming.
March 8, 1960	Depth 5,524 - drilling.
March 9, 1960	Depth 5,568 - drilling.
March 10, 1960	Depth 5,584 - drilling.
March 11, 1960	Depth 5,706 - drilling.
March 12, 1960	Depth 5,743 - drilling.
March 13, 1960	Depth 5,778 - drilling.
March 14, 1960	Depth 5,810 - reaming.
March 15, 1960	Depth 5,856 - drilling.
March 16, 1960	Depth 5,913 - drilling.
March 17, 1960	Depth 5,978 - drilling.
March 18, 1960	Depth 6,045 - drilling.
March 19, 1960	Depth 6,095 - drilling.
March 20, 1960	Depth 6,156 - drilling.
March 21, 1960	Depth 6,208 - drilling.
March 22, 1960	Depth 6,285 - drilling.
March 23, 1960	Depth 6,362 - drilling.
March 24, 1960	Depth 6,393 - logging.
March 25, 1960	Depth 6,437 - drilling.
March 26, 1960	No report.
March 27, 1960	No report.
March 28, 1960	Depth 6,555 - logging.
March 29, 1960	Total depth 6,555 - preparing to test.
March 30, 1960	Total depth 6,555 - opening hole.
March 31, 1960	Total depth 6,555 - D. S. T. #6-5957 - 5996. Recovered 60 feet of mud, 200 feet salt water cut mud - preparing to abandon.

April 1, 1960	No report.
April 2, 1960	No report.
April 3, 1960	No report.
April 4, 1960	No report.
April 5, 1960	Total Depth 6,555 feet - ran plugs preparing to release rig.
April 6, 1960	Rig released.

Report No. O-S 7 BSN 1972

Grandview Hills No.1

Report on forty-three lots of fossils from core from the Eagle Plains No. 1, Grandview Hills No. 1, Kugaluk N-02, Pt. Separation No. 1 and Root River I-60 wells, Yukon Territory and District of Mackenzie (NTS 95J; 106M,O; 107A; 116J)

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	Well, Fossils and Age	GSC Loc. No.
	Richfield Oil Corp. et al. Grandview Hills No. 1 67°06'12"N., 130°52'30"W	
3148 1/2 ft.	gastropod (?)	C-18045
3549 ft.	indeterminate coral age: Middle Ordovician to Permian	C-18046
3566 ft.	gastropod (?)	C-1927
4211 ft.	indeterminate fossil	C-18047
4219 ft.	indeterminate tabulate coral age: Middle Ordovician to Permian	C-18048
	FPC Tenneco Root River I-60 62°39'32.21"N., 125°24'28.96"W.	
6621 ft.	echinoderm fragments large gastropod bryozoan (?) Palaeofavosites sp. age: Late Ordovician to Late Silurian	C-18036
6624 ft.	echinoderm fragments ?Bighornia sp. Lobocorallium sp. Palaeophyllum sp. age: Late Ordovician	C-18037
6627 ft.	indeterminate solitary coral	C-18038
6631 ft.	Bighornia sp.	C-2520
6645 ft.	streptelasmid coral age: Middle Ordovician to Silurian	C-18039
	Richfield et al. Pt. Separation No. 1 67°54'06"N., 134°00'10"W.	
7982 1/2 ft.	undetermined stromatoporoid	C-18060
7984 1/2 ft.	undetermined stromatoporoids Favosites ? spp. heliolitid coral (?) age: Silurian to Middle Devonian	C-18061

Depth	Well, Fossils and Age	GSC Loc. No.
7988 ft.	undetermined stromatoporoid Cystiphyllum sp. age: Silurian	C-18062
7993 ft.	undetermined stromatoporoid ?Favosites 2 spp. Multisolenia tortuosa Fritz age: Silurian, probably Late Llandovery	C-18063
8013 ft.	indeterminate orthid brachiopod	C-18064
8017 ft.	indeterminate brachiopod	C-18065
8019 ft.	Cystiphyllum sp. age: Silurian	C-18066
	Peel Plateau Eagle Plains Y.T. No. 1 66°48'54"N., 138°08'30"W.	
7061 ft.	echinoderm fragments ?Favosites sp. Syringopora sp. age: Silurian to Devonian	C-18050
7368 ft.	?Favosites sp. age: Late Ordovician to Middle Devonian	C-18051
7696 ft.	inarticulate brachiopod	C-18053
7888 ft.	indeterminate fossils	C-18054
7890 ft.	streptelasmid coral	C-18055
7891 ft.	streptelasmid coral Palaeophyllum sp. indeterminate tabulate coral age: late Middle Ordovician to Early Silurian	C-18056
7893 ft.	stromatoporoid (?)	C-18056A
7895 ft.	Catenipora 2 spp. age: late Middle Ordovician to Late Silurian	C-18057
7897 ft.	Bighornia sp. Palaeofavosites sp. age: Late Ordovician	C-18058
7898 ft.	?Lobocorallium sp. indeterminate solitary coral Catenipora sp. Palaeofavosites sp. ?Palaeofavosites sp. age: Late Ordovician	C-18059

Depth	Well, Fossils and Age	GSC Loc. No.
	CPOG Kugaluk N-02 68°31'55"N., 131°31'19"W.	
5590 1/4 ft.	Favosites sp. age: Late Ordovician to Middle Devonian	C-18011
5614 ft.	echinoderm fragmnets Cystihalysites sp. age: Silurian	C-18012
5615 ft.	indeterminate coral	C-18013
5624 ft.	favositid coral	C-18014
5626 ft.	indeterminate coral	C-18015
5819 1/2 ft.	?Cystihalysites sp. ?Favosites sp. age: Silurian	C-18016
5824 ft.	indeterminate coral	C-18017
5978-5980 ft.	?Favosites sp.	C-18018
6111 ft.	?Catenipora sp. age: late Middle Ordovician to Late Silurian	C-18019
6126 1/2 ft.	?Catenipora sp. age: late Middle Ordovician to Late Silurian	C-18020
6190 ft.	indeterminate solitary coral halysitid coral age: late Middle Ordovician to Late Silurian	C-18021
6199 1/2 ft.	indeterminate fossils	C-18022
6242 ft.	indeterminate solitary coral	C-18023
6423 ft.	favositid coral (?) age: probably Late Ordovician to Devonian	C-18024
6491 ft.	favositid coral (?) age: probably Late Ordovician to Devonian	C-18025
6619 ft.	fossil (?) fragments	C-18026

B.S. Norford

Paleontology Subdivision
Institute of Sedimentary and Petroleum Geology,
Calgary, June 26, 1972

Report No. O-S 7 BSN 1972

Grandview Hills No.1

Report on forty-three lots of fossils from core from the Eagle Plains No. 1, Grandview Hills No. 1, Kugaluk N-02, Pt. Separation No. 1 and Root River I-60 wells, Yukon Territory and District of Mackenzie (NTS 95J; 106M,O; 107A; 116J)

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Depth	Well, Fossils and Age	GSC Loc. No.
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5978-5980 ft.	?Favosites sp.	C-18018
6111 ft.	?Catenipora sp. age: late Middle Ordovician to Late Silurian	C-18019
6126 1/2 ft.	?Catenipora sp. age: late Middle Ordovician to Late Silurian	C-18020
6190 ft.	indeterminate solitary coral halysitid coral age: late Middle Ordovician to Late Silurian	C-18021
6199 1/2 ft.	indeterminate fossils	C-18022
6242 ft.	indeterminate solitary coral	C-18023
6423 ft.	favositid coral (?) age: probably Late Ordovician to Devonian	C-18024
6491 ft.	favositid coral (?) age: probably Late Ordovician to Devonian	C-18025
6619 ft.	fossil (?) fragments	C-18026

B.S. Norford

Paleontology Subdivision
Institute of Sedimentary and Petroleum Geology,
Calgary, June 26, 1972

RICHFIELD OIL CORPORATION	RICHFIELD OIL GRANDVIEW HILLS et al #1	1	JAN. 7,1960
COMPANY	WELL NAME AND NUMBER	TEST NO.	DATE

JOHNSTON TESTERS LTD.

321 - 50th AVENUE S.E., CALGARY, ALBERTA

PHONE CH 3-3461

SERVICE REPORT

Pressure Recorder: No. 867 Cap. 3000# Location 913'

PRESSURE DATA	
A Initial Hyd.	425#
B Initial Shut-In	40#
C Initial Flow	41#
D Final Flow	41#
E Final Shut-In	false 125#
F Final Hyd.	418#
Remarks:	

Point	Pressure	Point	Pressure

SECONDARY RECORDER

Pressure Recorder: No. T-373 Cap. 3000# Location 880'

PRESSURE DATA	
A Initial Hyd.	402#
B Initial Shut-In	27#
C Initial Flow	33#
D Final Flow	33#
E Final Shut-In	false 107#
F Final Hyd.	402#
Remarks:	

Point	Pressure	Point	Pressure

PRIMARY RECORDER

JOHNSTON TESTERS LTD.

321 - 50th Avenue S.E. Calgary, Alberta

Phone CH 3-3461

COMPANY Richfield Oil Corporation TICKET # B-1026

FIELD Wildcat P.O. #

WELL NAME Richfield Grandview Hills et al #1

COMPANY REP. J. Brown JOHNSTON OP. J. Brown

GENERAL TEST DATA

TYPE TEST	Open hole	BOTTOM HOLE TEMP.	70°F
TOTAL DEPTH	915'	CHOKE SIZE	1/2"
INTERVAL TESTED	875'-915'	FLUID CUSHION TYPE	AMT
TIME STARTED IN HOLE	A.M. P.M.	AIR CHAMBER SIZE I.D. 2.7"	AMT 60'
TIME TOOL ON BOTTOM	A.M. P.M.	WAS TOOL CHASED TO BOTTOM	no
TIME TOOL OPENED	1:15 A.M. P.M.	DID PACKERS HOLD	yes
INITIAL SHUT-IN PERIOD	34 mins.	WAS TOOL PLUGGED	no
FLOW PERIOD	30 mins.	WAS JARRING NECESSARY	no
FINAL SHUT-IN PERIOD	28 mins.	WAS TEST REVERSED OUT	no

REMARKS Temperature to high due to washing tool with hot water ----Test satisfactory.

AIR OR GAS BLOW Good initial puff strong air blow dead in 4 minutes.

FLUID RECOVERY. 66 feet of drilling fluid.

SURFACE INFORMATION WHEN CHOKE OR ORIFICE USED

TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES	CHOKE SIZE

OTHER TEST DATA

MAIN HOLE SIZE 9" RAT HOLE SIZE DRILL PIPE SIZE 4 1/2 F.H.

TYPE MUD WEIGHT 9.0 VISCOSITY WATER LOSS FILTER CAKE

TYPE PACKER'S SIZE TYPE SIZE

RECORDERS

TOP NO.	T-373	CAPACITY	3000#	INSIDE ☐	OUTSIDE ☐	DEPTH	880'
BOTTOM	867	CAPACITY	3000#	INSIDE ☐	OUTSIDE ☐	DEPTH	913'
EXTRA		CAPACITY		INSIDE ☐	OUTSIDE ☐	DEPTH	

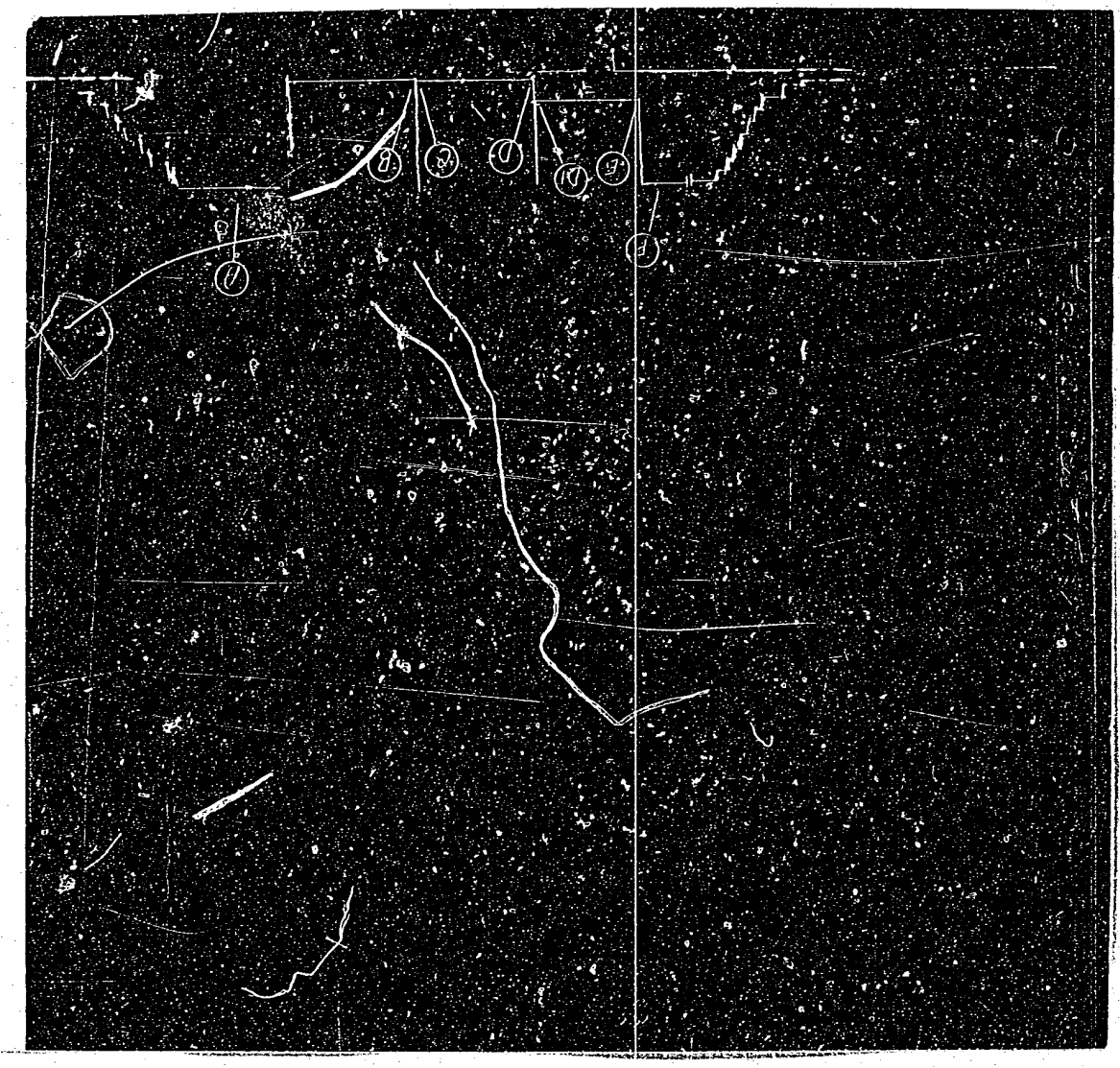
NO. SERVICE REPORTS 5 - Calgary

RICHFIELD OIL CORPORATION
COMPANY

RICHFIELD OIL GRANDVIEW HILLS et al #1
WELL NAME AND NUMBER

1
TEST NO.

JAN. 7, 1960
DATE



1
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7
Lot 1 & 2 - 1026 Grant Ave

JOHNSTON TESTERS LTD.

321 - 50th AVENUE S.E., CALGARY, ALBERTA

PHONE CH 3-3461

SERVICE REPORT

JOHNSTON TESTERS LTD.

321 - 50th Avenue S.E. Calgary, Alberta

Phone CH 3-3461

COMPANY Richfield Oil Corporation TICKET # B-1027

FIELD Wildcat P.O. #

WELL NAME Richfield Grandview Hills #1

COMPANY REP. J.R. Brown Tester for JOHNSTON J. Withers

GENERAL TEST DATA

TYPE TEST	Open hole		BOTTOM HOLE TEMP.		
TOTAL DEPTH	2560'		CHOKE SIZE	1/2"	
INTERVAL TESTED	2525'-2560'		FLUID CUSHION TYPE	water AMT	25'
TIME STARTED IN HOLE		P.M. / A.M.	AIR CHAMBER SIZE I.D.	2 7/8" AMT	5'
TIME TOOL ON BOTTOM		A.M. / P.M.	WAS TOOL CHASED TO BOTTOM	yes	2'
TIME TOOL OPENED	9:20	A.M. / P.M.	DID PACKERS HOLD	yes	
INITIAL SHUT-IN PERIOD	30 mins.		WAS TOOL PLUGGED	no	
FLOW PERIOD	45 mins.		WAS JARRING NECESSARY	no	
FINAL SHUT-IN PERIOD	30 mins.		WAS TEST REVERSED OUT	no	

REMARKS There was approximately 2 feet of fill in the bottom of the hole, opened tool for initial shut in, tool kept sliding slightly causing initial shut in to squeeze out ----Test satisfactory.

AIR OR GAS BLOW Good initial puff with fair blow decreasing in 2 minutes to very weak blow throughout test.

FLUID RECOVERY. 25 feet of gas cut mud. 25 feet of water cushion

SURFACE INFORMATION WHEN CHOKE OR ORIFICE USED

TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE

OTHER TEST DATA

MAIN HOLE SIZE 9" RAT HOLE SIZE DRILL PIPE SIZE 4 1/2 F.H.

TYPE MUD WEIGHT 10.0 VISCOSITY WATER LOSS FILTER CAKE

TYPE PACKER'S SIZE TYPE SIZE

RECORDERS:

TOP NO.	T-373	CAPACITY	3000#	INSIDE ☒	OUTSIDE ☐	DEPTH	2530'
BOTTOM	367	CAPACITY	3000#	INSIDE ☐	OUTSIDE ☒	DEPTH	2560'
EXTRA		CAPACITY		INSIDE ☐	OUTSIDE ☐	DEPTH	

NO. SERVICE REPORTS 5 - Richfield Calgary

RICHFIELD OIL CORPORATION — COMPANY

RICHFIELD GRANDVIEW HILLS #1 — WELL NAME AND NUMBER

2 — TEST NO.

JAN. 21, 1950 — DATE

Pressure Recorder: No. 867 Cap. 3000# Location Outside 2560'

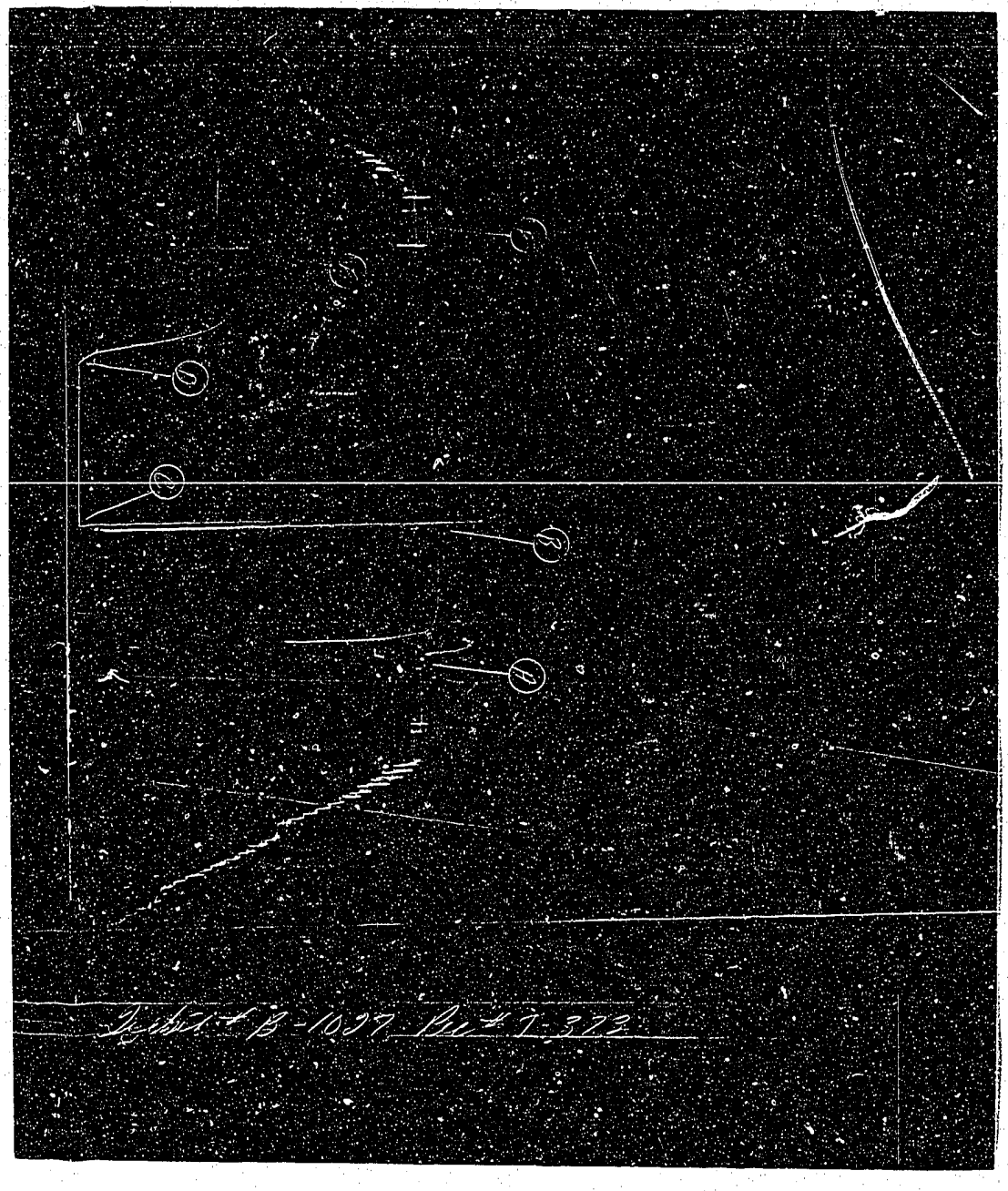
PRESSURE DATA		Point	Pressure	Point	Pressure
A Initial Hyd.	1317#				
B Initial Shut-In	false 1389#				
C Initial Flow	71#				
D Final Flow	71#				
E Final Shut-In	689#				
F Final Hyd.	1329#				
Remarks:					

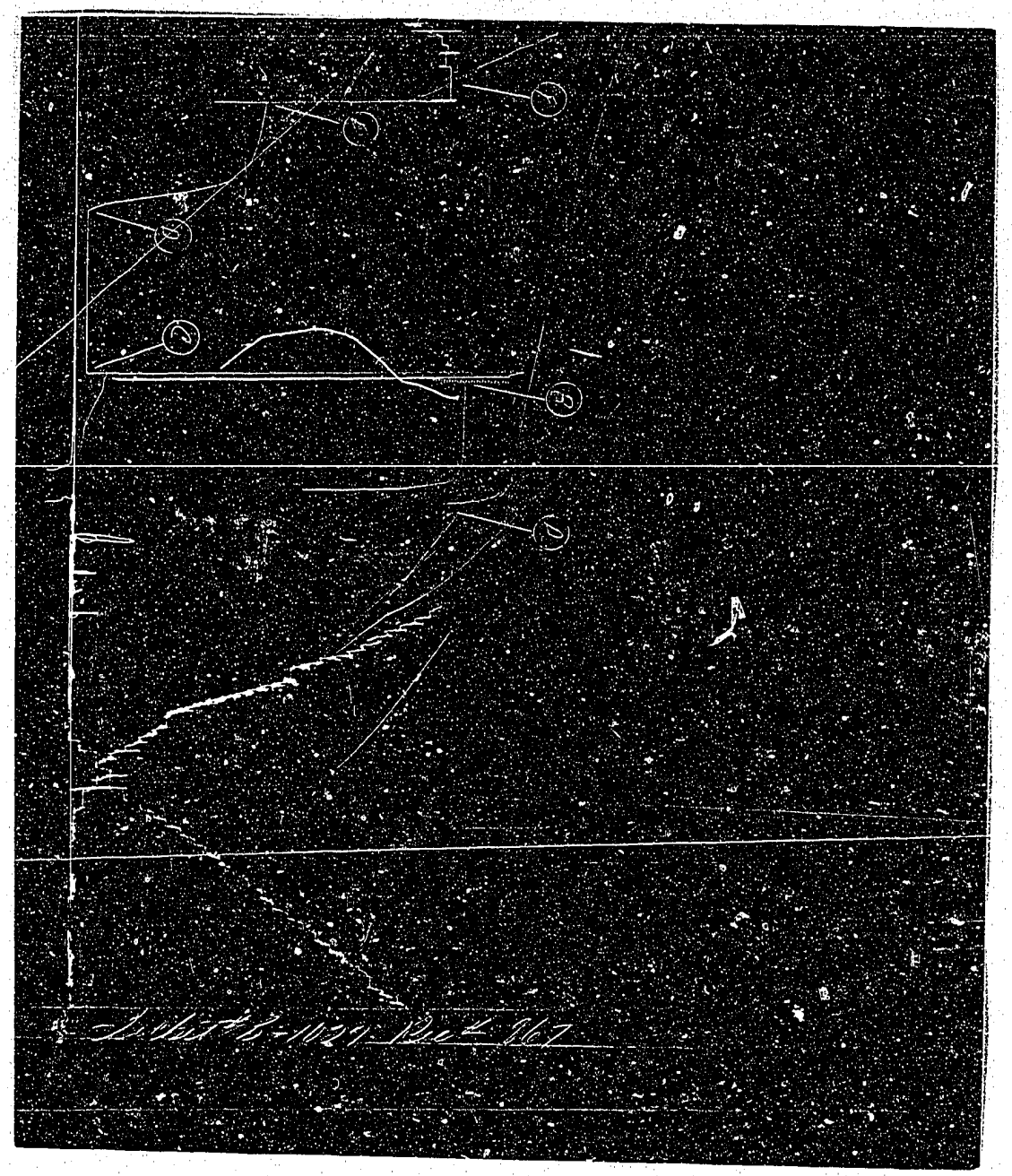
SECONDARY RECORDER

Pressure Recorder: No. T-373 Cap. 3000# Location Inside 2530'

PRESSURE DATA		Point	Pressure	Point	Pressure
A Initial Hyd.	1297#				
B Initial Shut-In	false 1367#				
C Initial Flow	55#				
D Final Flow	60#				
E Final Shut-In	671#				
F Final Hyd.	1291#				
Remarks:					

PRIMARY RECORDER


Exhibit B-1037 Pet. 1-372


Exhibit 5-1021 Page 167

JOHNSTON TESTERS LTD.

321 - 50th AVENUE S.E., CALGARY, ALBERTA

PHONE CH 3-3461

SERVICE REPORT

Pressure Recorder: No. 867 Cap. 3000# Location 2676' outside

PRESSURE DATA		Point	Pressure	Point	Pressure
A Initial Hyd.	1385#				
B Initial Shut-In	false 1480#				
C Initial Flow	52#				
D Final Flow	177#				
E Final Shut-In	767#				
F Final Hyd.	1368#				
Remarks:					

SECONDARY RECORDER

Pressure Recorder: No. T-373 Cap. 3000# Location 2653' inside

PRESSURE DATA		Point	Pressure	Point	Pressure
A Initial Hyd.	1357#				
B Initial Shut-In	false 1480#				
C Initial Flow	43#				
D Final Flow	176#				
E Final Shut-In	760#				
F Final Hyd.	1354#				
Remarks:					

PRIMARY RECORDER

JOHNSTON TESTERS LTD.

321 - 50th Avenue S.E. Calgary, Alberta

Phone CH 3-3461

COMPANY Richfield Oil Corporation TICKET # B-1028

FIELD Wildcat P.O. #

WELL NAME Richfield Grandview Hills #1

COMPANY REP. J. R. Brown Tester for JOHNSTON J. Withers

GENERAL TEST DATA

TYPE TEST	Open hole	BOTTOM HOLE TEMP.	80°F
TOTAL DEPTH	2676'	CHOKE SIZE	1/2"
INTERVAL TESTED	2650'-2676'	FLUID CUSHION TYPE water AMT 22'	
TIME STARTED IN HOLE	A.M. P.M.	AIR CHAMBER SIZE I.D. 2 7/8" AMT 8'	
TIME TOOL ON BOTTOM	A.M. P.M.	WAS TOOL CHASED TO BOTTOM	no
TIME TOOL OPENED	A.M. 11:23 P.M.	DID PACKERS HOLD	yes
INITIAL SHUT-IN PERIOD	30 mins.	WAS TOOL PLUGGED	no
FLOW PERIOD	75 mins.	WAS JARRING NECESSARY	no
FINAL SHUT-IN PERIOD	30 mins.	WAS TEST REVERSED OUT	no

REMARKS Pipe settled approximately 1½ feet when tool opened for initial shut in causing it to squeeze, initial unsuccessful Test satisfactory

AIR OR GAS BLOW Good initial puff with fair blow throughout test.

FLUID RECOVERY. 330 feet of black muddy sulphurous water, 22 feet of water cushion.

SURFACE INFORMATION WHEN CHOKE OR ORIFICE USED

TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE

OTHER TEST DATA

MAIN HOLE SIZE 9" RAT HOLE SIZE DRILL PIPE SIZE 4 1/2 F.H.

TYPE MUD WEIGHT 9.8 VISCOSITY WATER LOSS FILTER CAKE

TYPE PACKER'S SIZE TYPE SIZE

RECORDERS:

TOP NO.	T-373	CAPACITY	3000#	INSIDE ☒	OUTSIDE ☐	DEPTH	2653'
BOTTOM	867	CAPACITY	3000#	INSIDE ☐	OUTSIDE ☒	DEPTH	2676'
EXTRA		CAPACITY		INSIDE ☐	OUTSIDE ☐	DEPTH	

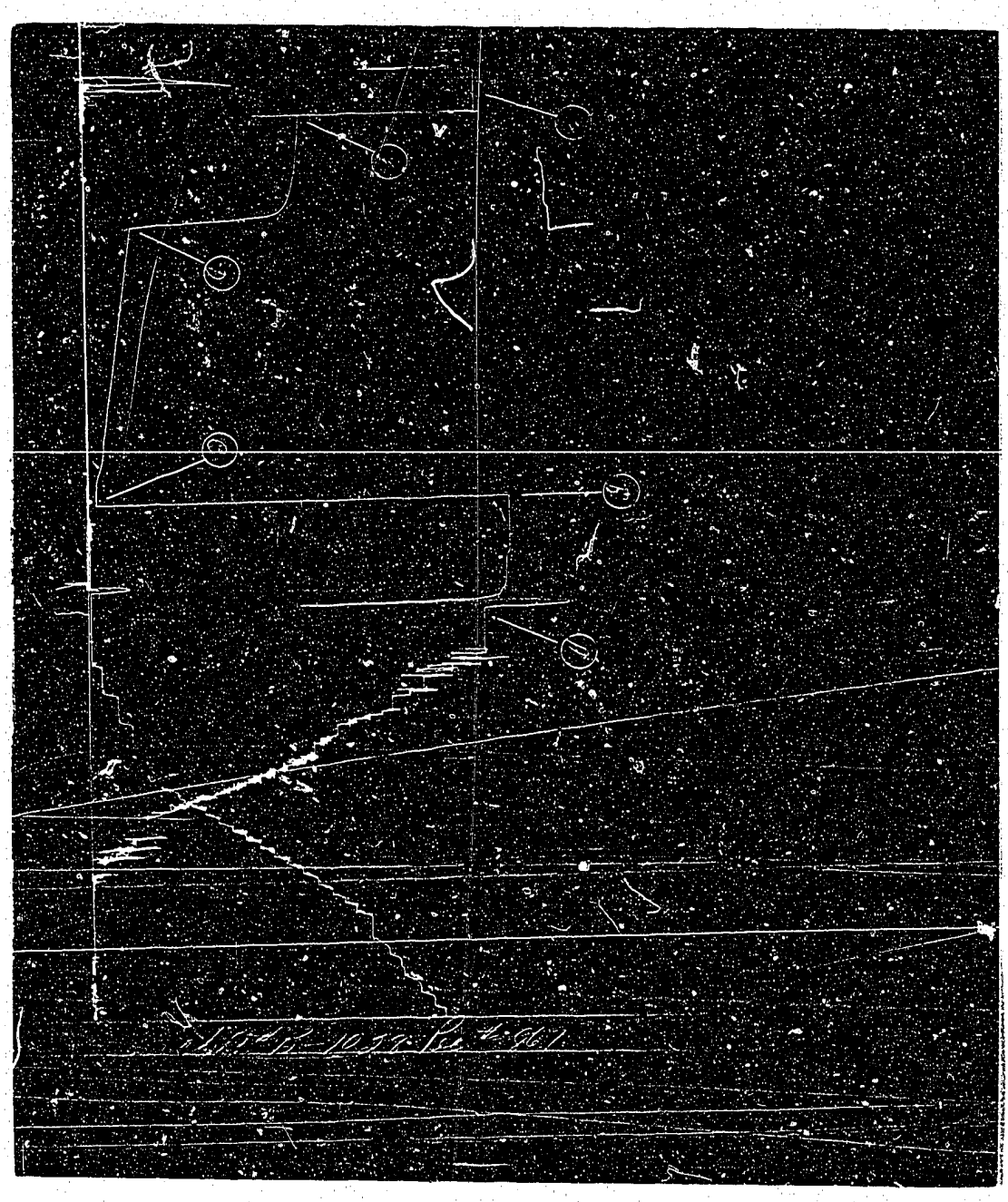
NO. SERVICE REPORTS 5 - Richfield Calgary

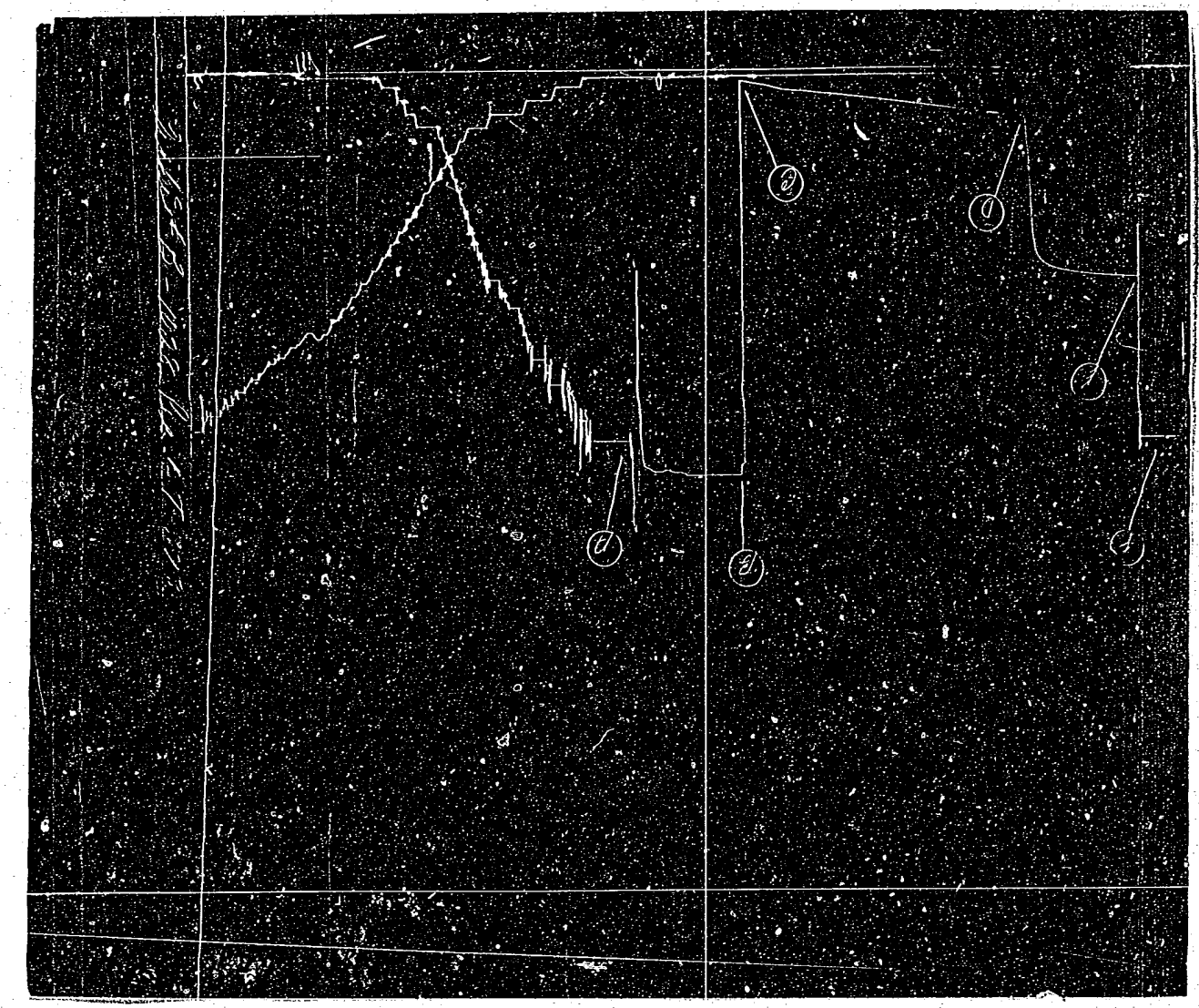
RICHFIELD OIL CORPORATION
COMPANY

RICHFIELD GRANDVIEW HILLS #1
WELL NAME AND NUMBER

3
TEST NO.

JAN. 21, 1960
DATE




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JOHNSTON TESTERS LTD.

321 - 50th AVENUE S.E., CALGARY, ALBERTA

PHONE CH 3-3461

SERVICE REPORT

Pressure Recorder: No. 867 Cap. 3000# Location Outside 2710'

PRESSURE DATA		Point	Pressure	Point	Pressure
A Initial Hyd.	1393#				
B Initial Shut-In	false 1289#				
C Initial Flow	57#				
D Final Flow	175#				
E Final Shut-In	769#				
F Final Hyd.	1397#				
Remarks:					

SECONDARY RECORDER

Pressure Recorder: No. T-373 Cap. 3000# Location Inside 2670'

PRESSURE DATA		Point	Pressure	Point	Pressure
A Initial Hyd.	1370#				
B Initial Shut-In	false 1242#				
C Initial Flow	47#				
D Final Flow	172#				
E Final Shut-In	762#				
F Final Hyd.	1375#				
Remarks:					

PRIMARY RECORDER

JOHNSTON TESTERS LTD.

321 - 50th Avenue S.E. — Calgary, Alberta

Phone CH 3-3461

COMPANY Richfield Oil Corporation TICKET # B-1029

FIELD Wildcat P.O. #

WELL NAME Richfield Grandview Hills #1

COMPANY REP. J.R.Brown Tester for JOHNSTON J. Withers

GENERAL TEST DATA

TYPE TEST	Open hole		BOTTOM HOLE TEMP.	78°F	
TOTAL DEPTH	2710'		CHOKE SIZE	1/2"	
INTERVAL TESTED	2678'-2710'		FLUID CUSHION TYPE	water	AMT 18'
TIME STARTED IN HOLE	A.M.	P.M.	AIR CHAMBER SIZE I.D.	2 7/8"	AMT 12'
TIME TOOL ON BOTTOM	A.M.	P.M.	WAS TOOL CHASED TO BOTTOM	no	
TIME TOOL OPENED	8:50 A.M.	P.M.	DID PACKERS HOLD	yes	
INITIAL SHUT-IN PERIOD	30 mins.		WAS TOOL PLUGGED	no	
FLOW PERIOD	60 mins.		WAS JARRING NECESSARY	no	
FINAL SHUT-IN PERIOD	30 mins.		WAS TEST REVERSED OUT	no	

REMARKS Pipe slid 3 to 4 feet to bottom causing initial to squeeze out Test satisfactory

AIR OR GAS BLOW Good initial puff with fair blow throughout test.

FLUID RECOVERY. 220 feet of muddy sulphurous salt water, 18 feet of water cushion.

SURFACE INFORMATION WHEN CHOKE OR ORIFICE USED

TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE

OTHER TEST DATA

MAIN HOLE SIZE 9" RAT HOLE SIZE DRILL PIPE SIZE 4 1/2 F.H.

TYPE MUD WEIGHT 9.8 VISCOSITY WATER LOSS FILTER CAKE

TYPE PACKER'S SIZE TYPE SIZE

RECORDERS:

TOP NO.	T-373	CAPACITY	3000#	INSIDE ☒	OUTSIDE ☐	DEPTH	2670'
BOTTOM	867	CAPACITY	3000#	INSIDE ☐	OUTSIDE ☒	DEPTH	2710'
EXTRA		CAPACITY		INSIDE ☐	OUTSIDE ☐	DEPTH	

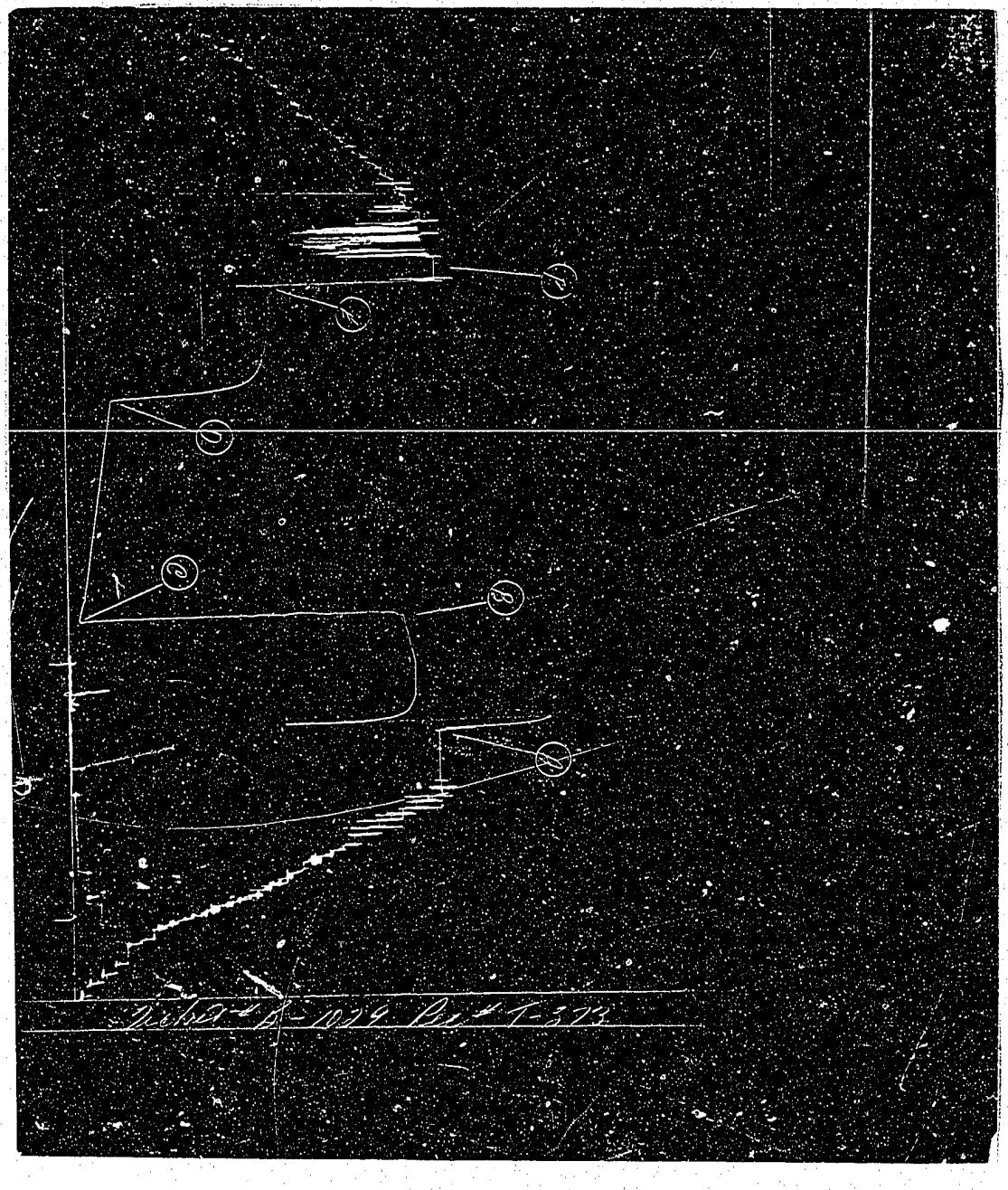
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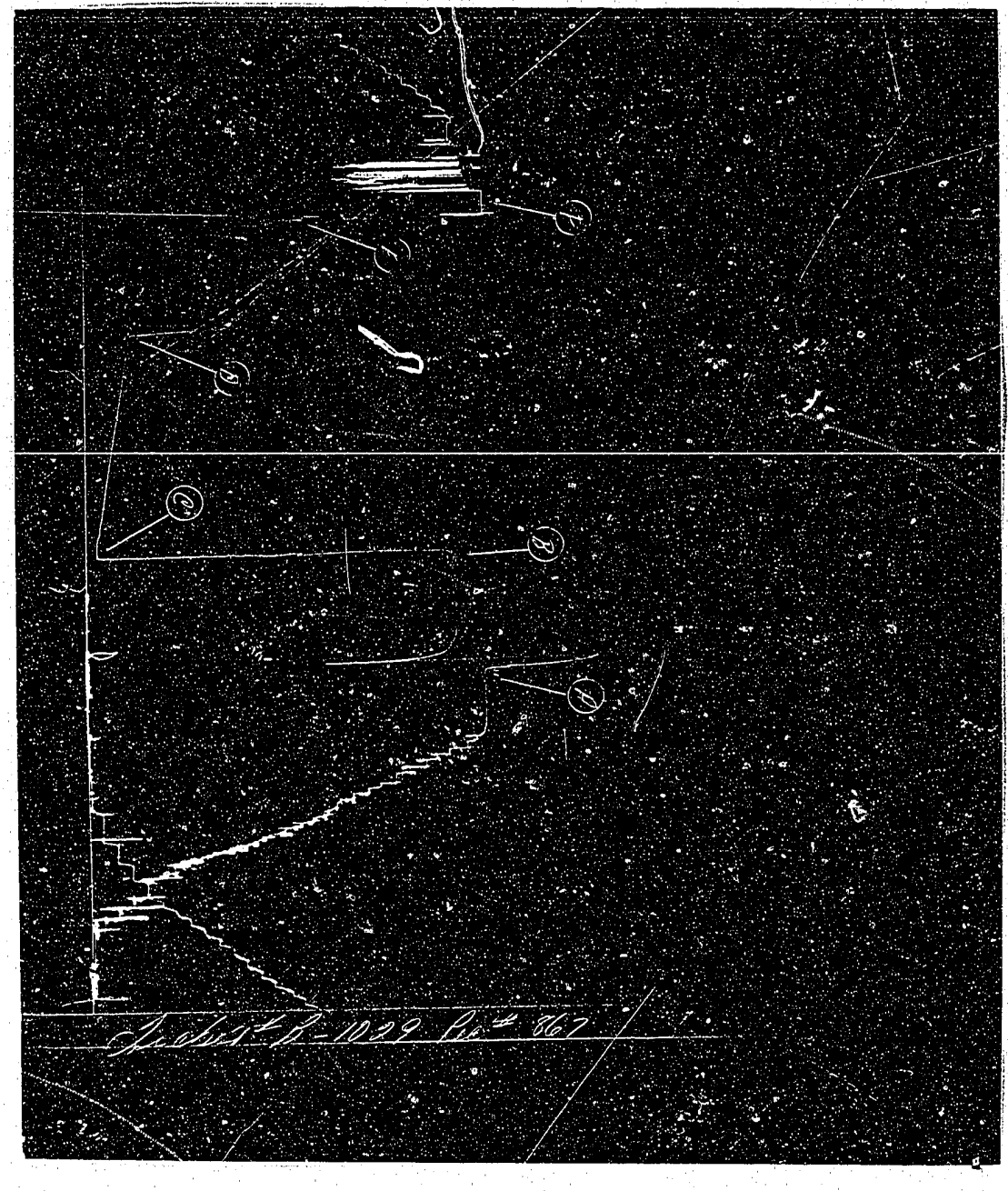
COMPANY RICHFIELD OIL CORPORATION

WELL NAME AND NUMBER RICHFIELD GRANDVIEW HILLS #1

TEST NO. 4

DATE JAN. 22, 1960


Dichroic - 028 Ref. T-373


Fig. 1
Fig. 2
Fig. 3
Fig. 4
Fig. 5
Fig. 6
Fig. 7
Fig. 8
Fig. 9
Fig. 10
Fig. 11
Fig. 12
Fig. 13
Fig. 14
Fig. 15
Fig. 16
Fig. 17
Fig. 18
Fig. 19
Fig. 20
Fig.

JOHNSTON TESTERS LTD.

321 - 50th AVENUE S.E., CALGARY, ALBERTA

PHONE CH 3-3461

SERVICE REPORT

Pressure Recorder: No. 867 Cap. 3000# Location Outside 3070'

PRESSURE DATA	
A Initial Hyd.	1571#
B Initial Shut-In	967#
C Initial Flow	160#
D Final Flow	348#
E Final Shut-In	932#
F Final Hyd.	1519#
Remarks:	

Point	Pressure	Point	Pressure

SECONDARY RECORDER

Pressure Recorder: No. T-373 Cap. 3000# Location Inside 3008'

PRESSURE DATA	
A Initial Hyd.	1534#
B Initial Shut-In	938#
C Initial Flow	116#
D Final Flow	324#
E Final Shut-In	904#
F Final Hyd.	1492#
Remarks:	

Point	Pressure	Point	Pressure

PRIMARY RECORDER

JOHNSTON TESTERS LTD.

321 - 50th Avenue S.E. — Calgary, Alberta

Phone CH 3-3461

COMPANY Richfield Oil Corporation — TICKET # B-1030

FIELD Wildcat — P.O. # C-5793.

WELL NAME Richfield Grandview Hills #1

COMPANY REP. J.Brown — Tester for JOHNSTON J. Withers

GENERAL TEST DATA

TYPE TEST	Open hole	BOTTOM HOLE TEMP.	101°F (est)
TOTAL DEPTH	3070'	CHOKE SIZE	1/2"
INTERVAL TESTED	3000'-3070'	FLUID CUSHION TYPE	AMT
TIME STARTED IN HOLE	A.M. P.M.	AIR CHAMBER SIZE I.D. 2 7/8"	AMT 30'
TIME TOOL ON BOTTOM	A.M. P.M.	WAS TOOL CHASED TO BOTTOM	no
TIME TOOL OPENED	A.M. 11:44 P.M.	DID PACKERS HOLD	yes
INITIAL SHUT-IN PERIOD	34 mins.	WAS TOOL PLUGGED	no
FLOW PERIOD	30 mins.	WAS JARRING NECESSARY	no
FINAL SHUT-IN PERIOD	34 mins.	WAS TEST REVERSED OUT	no

REMARKS Test satisfactory

AIR OR GAS FLOW Good initial puff with good blow throughout test.

FLUID RECOVERY. 670 feet of salty muddy water

SURFACE INFORMATION WHEN CHOKE OR ORIFICE USED

TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE

OTHER TEST DATA

MAIN HOLE SIZE 9" — RAT HOLE SIZE — DRILL PIPE SIZE 4 1/2 F.H.

TYPE MUD — WEIGHT 10.0 — VISCOSITY — WATER LOSS — FILTER CAKE

TYPE PACKER'S — SIZE — TYPE — SIZE

RECORDERS:

TOP NO.	T-373	CAPACITY	3000#	INSIDE ☒	OUTSIDE ☐	DEPTH	3008'
BOTTOM	867	CAPACITY	3000#	INSIDE ☐	OUTSIDE ☒	DEPTH	3070'
EXTRA		CAPACITY		INSIDE ☐	OUTSIDE ☐	DEPTH	

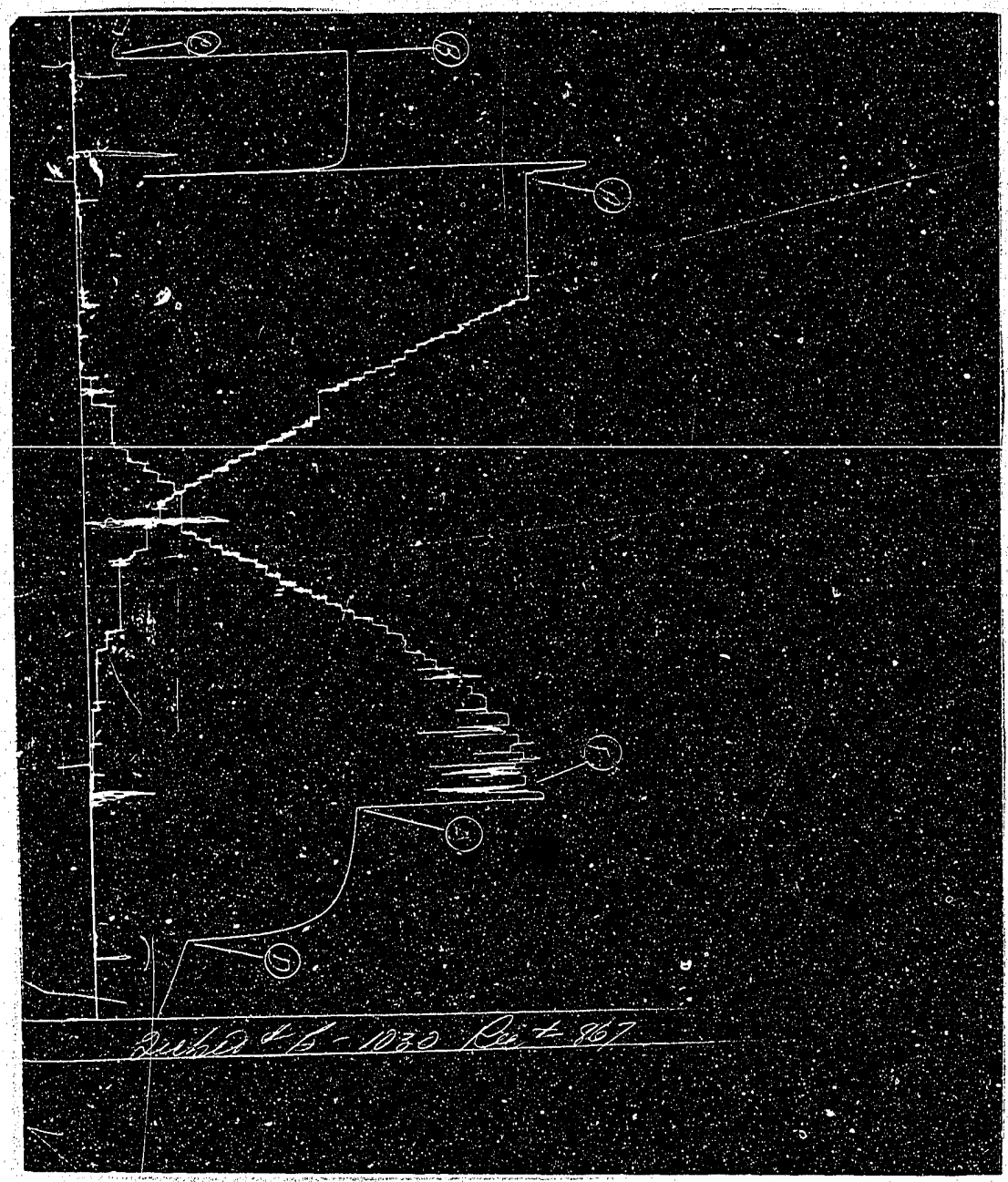
NO. SERVICE REPORTS 5 - Richfield Oil Corporation Calgary

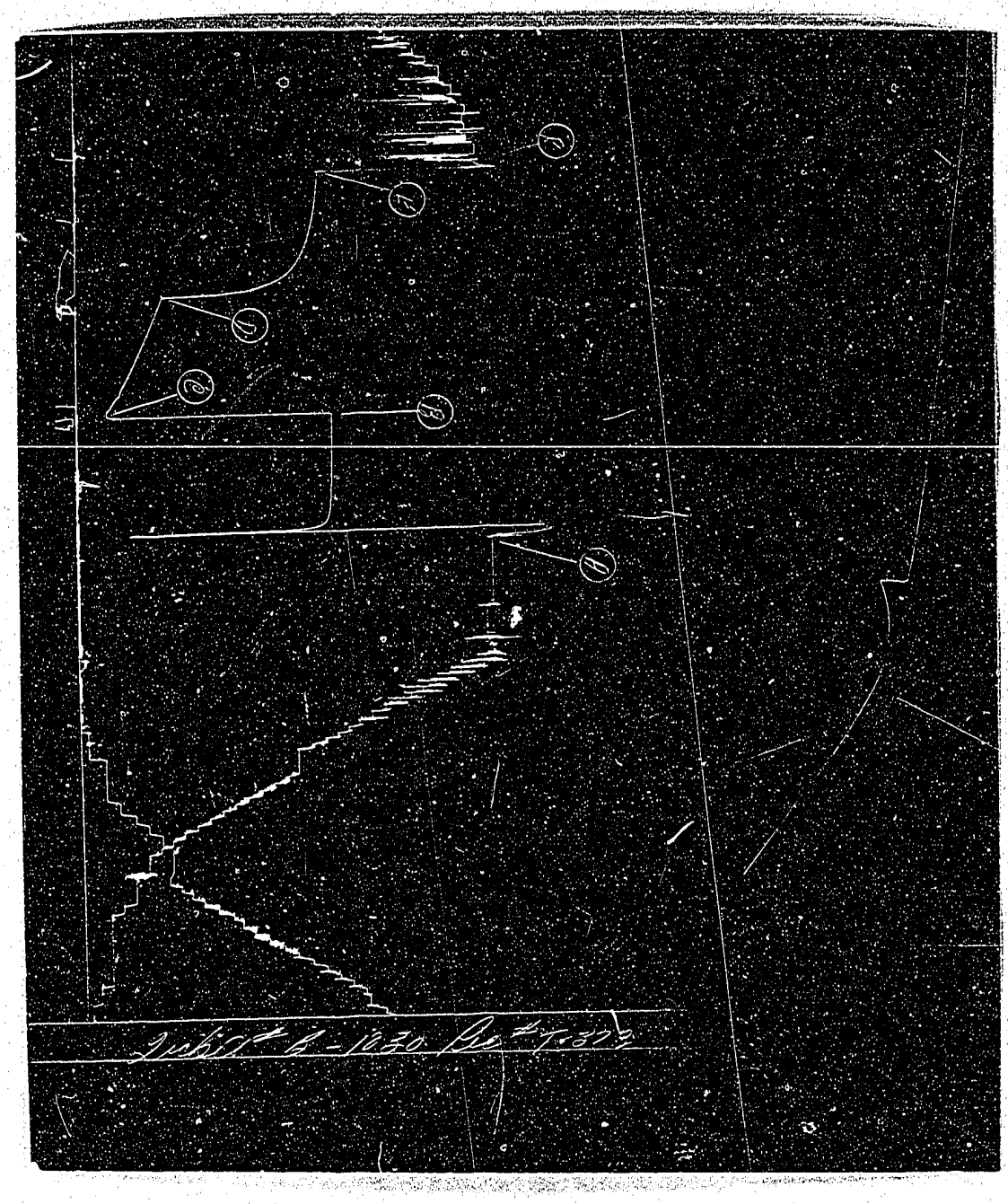
RICHFIELD OIL CORPORATION — COMPANY

RICHFIELD GRANDVIEW HILLS #1 — WELL NAME AND NUMBER

5 — TEST NO.

JAN. 28, 1960 — DATE


Rubber 6-1030 Rx 867


Exhibit C-1030 Page 7 of 32

JOHNSTON TESTERS LTD.

321 - 50th AVENUE S.E., CALGARY, ALBERTA

PHONE CH 3-3461

SERVICE REPORT

Pressure Recorder: No. 651 Cap. 3000# Location 5990'

PRESSURE DATA	Point	Pressure	Point	Pressure
A Initial Hyd. 2994#				
B Initial Shut-In 2482#				
C Initial Flow 80#				
D Final Flow 190#				
E Final Shut-In 1827#				
F Final Hyd. 2968#				
Remarks:				

SECONDARY RECORDER

Pressure Recorder: No. T-373 Cap. 3000# Location 5946'

PRESSURE DATA	Point	Pressure	Point	Pressure
A Initial Hyd. 2962#				
B Initial Shut-In 2455#				
C Initial Flow 57#				
D Final Flow 171#				
E Final Shut-In 1804#				
F Final Hyd. 2943#				
Remarks:				

PRIMARY RECORDER

JOHNSTON TESTERS LTD.

321 - 50th Avenue S.E. Calgary, Alberta

Phone CH 3-3461

COMPANY Richfield Oil Corporation TICKET # B-1031

FIELD Wildcat P.O. #

WELL NAME Richfield Grandview Hills #1

COMPANY REP. JOHNSTON OP. J. Withers

GENERAL TEST DATA

TYPE TEST	Open hole straddle	BOTTOM HOLE TEMP.	130°F (est)
TOTAL DEPTH	6555'	CHOKE SIZE	1/2"
INTERVAL TESTED	5957'-5996'	FLUID CUSHION TYPE	AMT
TIME STARTED IN HOLE	A.M. P.M.	AIR CHAMBER SIZE I.D. 2 15/16	AMT 60'
TIME TOOL ON BOTTOM	A.M. P.M.	WAS TOOL CHASED TO BOTTOM	no
TIME TOOL OPENED	A.M. 6:04 P.M.	DID PACKERS HOLD	yes
INITIAL SHUT-IN PERIOD	30 mins.	WAS TOOL PLUGGED	no
FLOW PERIOD	60 mins.	WAS JARRING NECESSARY	no
FINAL SHUT-IN PERIOD	30 mins.	WAS TEST REVERSED OUT	no

REMARKS Straddle test with 3 bombs and single 6 1/2" Bob tail packers, 550 feet of tail pipe, 4 1/2 F.H. for anchor -----Test satisfactory

AIR OR GAS BLOW Good initial puff with a weak air blow throughout test.

FLUID RECOVERY. 60 feet of drilling mud, 200 feet of black salt water cut mud.

SURFACE INFORMATION WHEN CHOKE OR ORIFICE USED

TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES.	CHOKE SIZE
TIME	MAXIMUM PRES	CHOKE SIZE
TIME	MAXIMUM PRES	CHOKE SIZE

OTHER TEST DATA

MAIN HOLE SIZE 7 7/8" RAT HOLE SIZE DRILL PIPE SIZE 4 1/2 F.H.

TYPE MUD WEIGHT 9.7 VISCOSITY WATER LOSS FILTER CAKE

TYPE PACKERS 1 B.T. SIZE 6 1/2" TYPE SIZE

RECORDERS

TOP NO.	T-373	CAPACITY	3000#	INSIDE ☐	OUTSIDE ☐	DEPTH	5946'
BOTTOM	867	CAPACITY	3000#	INSIDE ☐	OUTSIDE ☐	DEPTH	6555'
EXTRA	651	CAPACITY	5000#	INSIDE ☐	OUTSIDE ☐	DEPTH	5990'

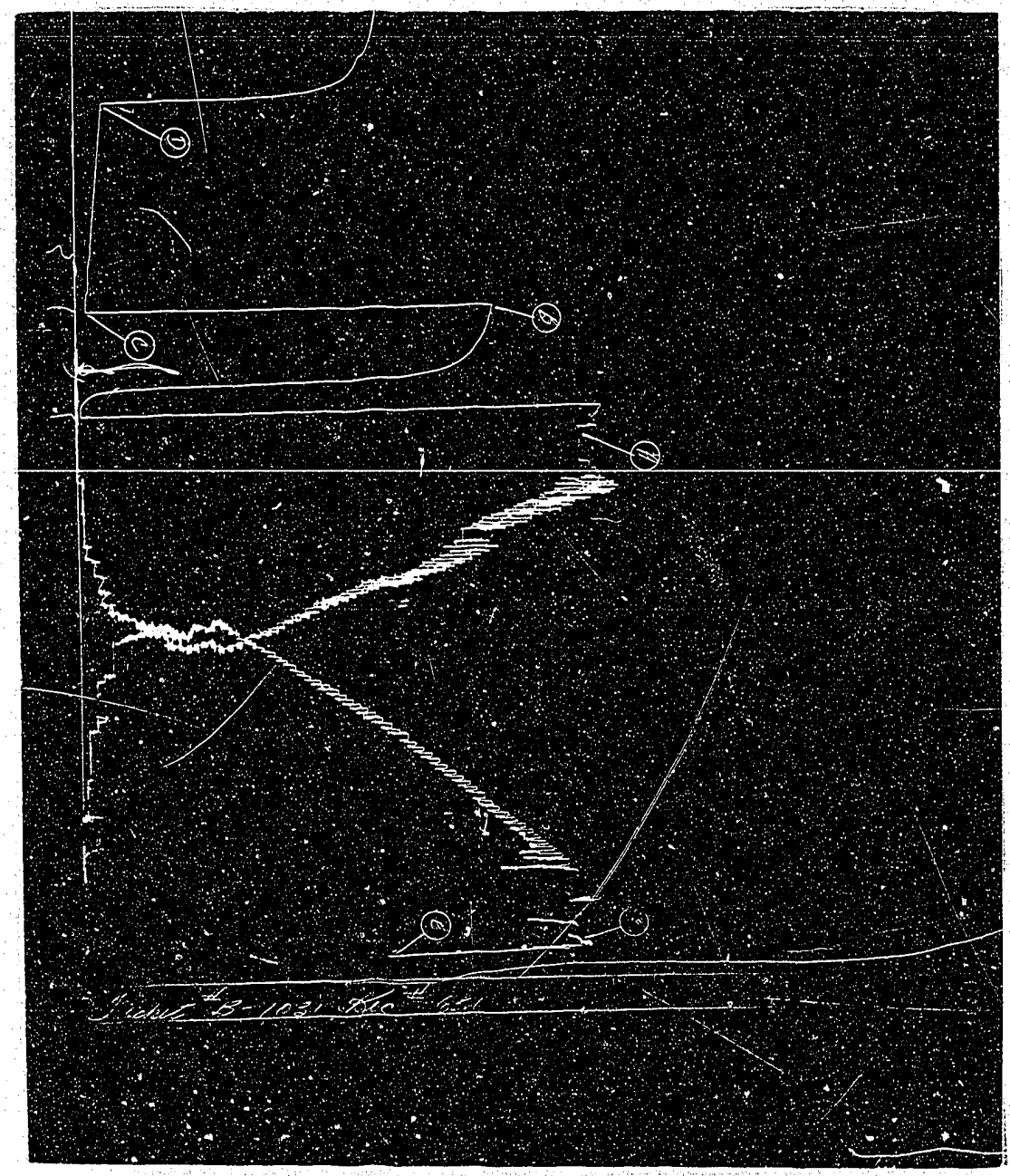
NO. SERVICE REPORTS 5 - Richfield Oil Corporation Calgary

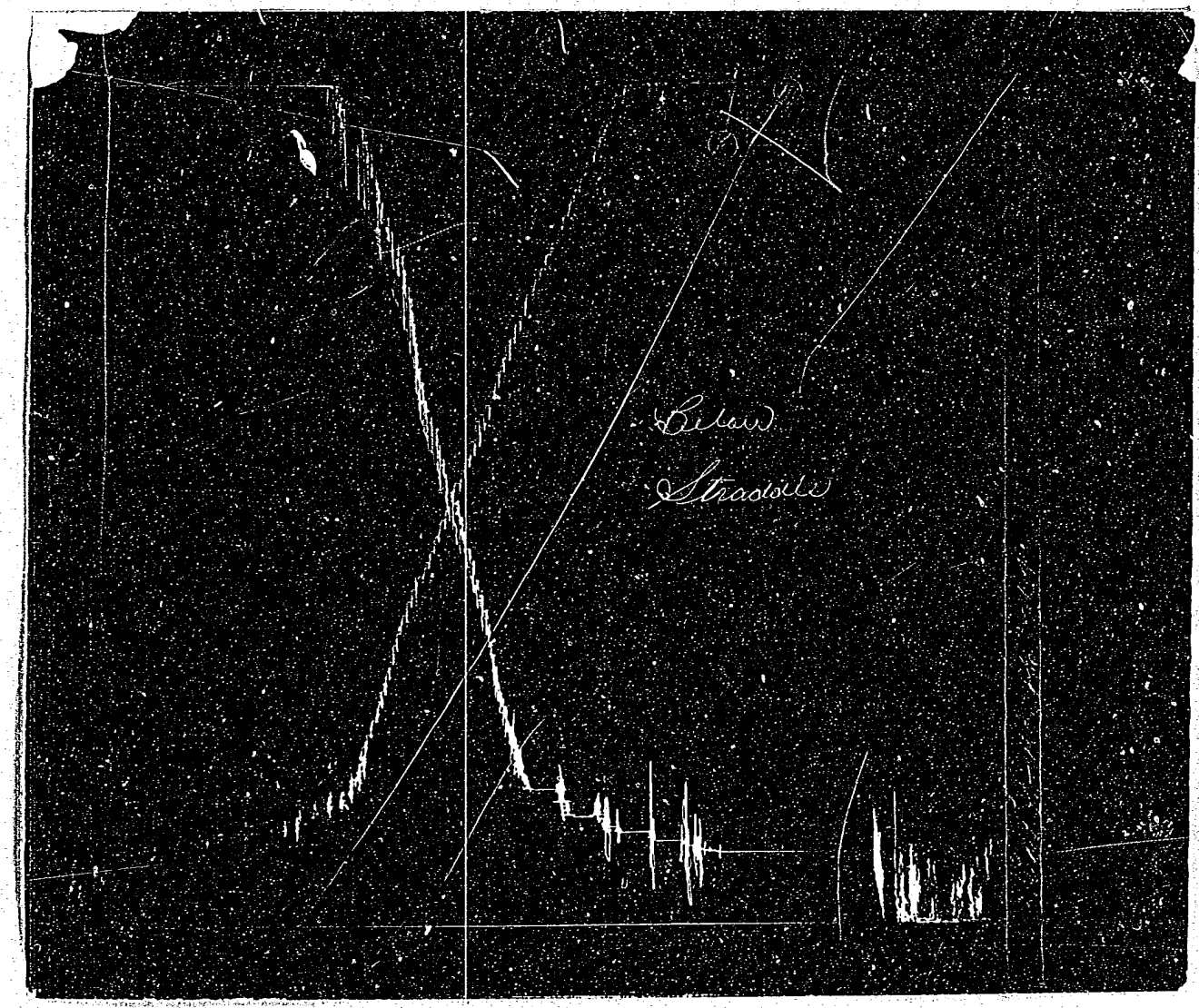
COMPANY RICHFIELD OIL CORPORATION

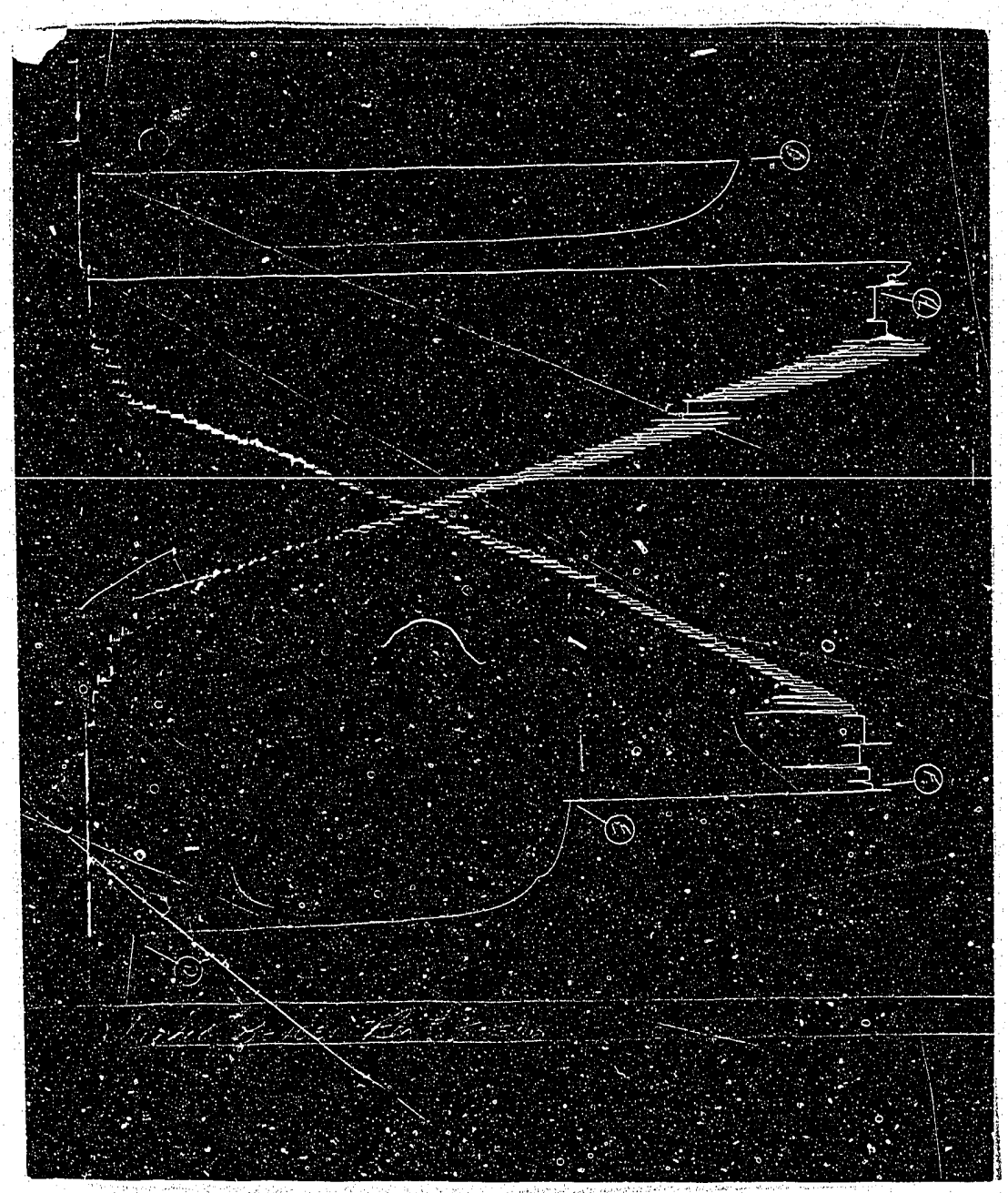
WELL NAME AND NUMBER RICHFIELD GRANDVIEW HILLS #1

TEST NO. 6

DATE MARCH. 30, 1960


Ticket B-1031 Dec 4 '63


Below
Strasbourg



Pressure Recorder: No. 867 Cap. 5000# Location 6555'

PRESSURE DATA		Point	Pressure	Point	Pressure
A Initial Hyd.	Estimated 3306#				
	Final Bleed off Below Straddle				
Al-	2732#				
F Final Hyd.	3306#				

Remarks:

Chemical & Geological Laboratories Ltd.

Edmonton – Fort St. John – Calgary

WATER ANALYSIS REPORT

Field ..... Well No. R.O.C. Grandview Hills No. 1

Operator Richfield Oil Corporation Date Received January 25, 1960.

Formation ..... Depths 2650' - 2676'

Other pertinent data D.S.T. No. 3. Recovered 330 feet gassy salt water.

Date February 17, 1960 **Lab. No.** C 2622-1

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na & K	Ca	Mg	Fe	SO_4	Cl	CO_3	HCO_3	OH	H_2S
6,805	647	432		41	12,000		1,500		Present

MILLIGRAM EQUIVALENTS

296.05	32.29	35.51		0.85	338.40		24.60		

MILLIGRAM EQUIVALENTS IN PERCENT

40.68	4.44	4.88		0.12	46.50		3.38		

Total Solids in Parts per Million

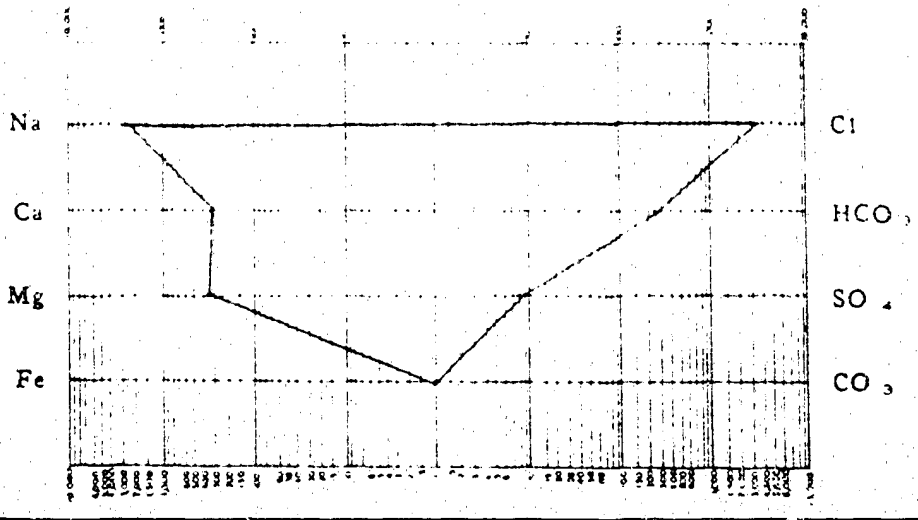
By evaporation	22,760
After ignition	19,760
Calculated	20,663
Specific Gravity	1.017
Observed pH	8.10
Resistivity	0.399 ohm meters @ 68° F.

Properties of Reaction in Percent

Primary salinity	81.36
Secondary salinity	11.88
Primary alkalinity	---
Secondary alkalinity	0.76
Chloride salinity	99.74
Sulfate salinity	0.26

Remarks and conclusions Milligram Equivalents multiplied by 10 on graph.

STIFFED PATTERN
MEQ per unit



WATER ANALYSIS REPORT

Field Well No. R.O.C. Grandview Hills No. 1

Operator Richfield Oil Corporation Date Received January 25, 1960

Formation Depths 2670' - 2710'

Other pertinent data D.S.T. No. 4. Recovered 320 feet gassy salt water.

Date February 17, 1960 Lab. No. C 2622-2

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na & K	Ca	Mg	Fe	SO_4	Cl	CO_3	HCO_3	OH	H_2S
7,557	690	432		46	13,000		1,900		Present

MILLIGRAM EQUIVALENTS

328.77	34.43	35.51		0.95	366.60		31.16		

MILLIGRAM EQUIVALENTS IN PERCENT

41.23	4.32	4.45		0.12	45.97		3.91		

Total Solids in Parts per Million

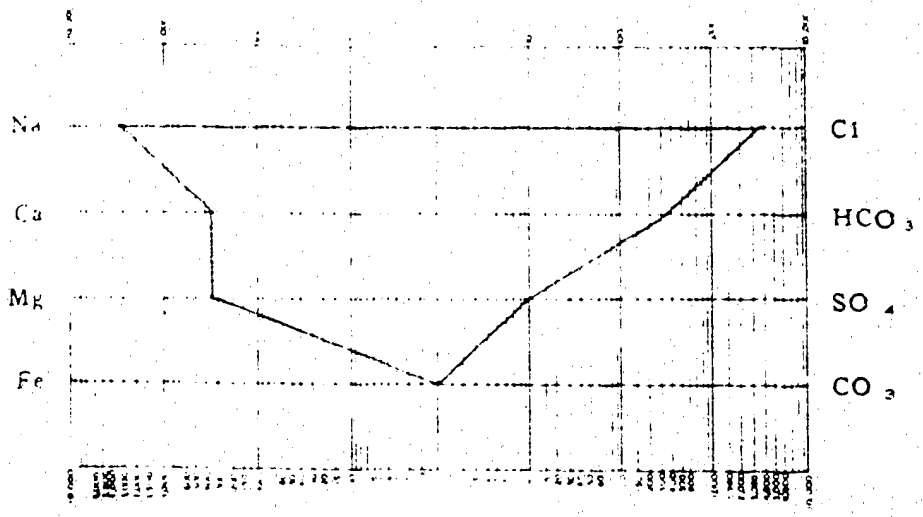
By evaporation	23,050
After ignition	19,530
Calculated	22,660
Specific Gravity	1.018
Observed pH	8.0
Resistivity	0.385 ohm meters @ 68° F.

Properties of Reaction in Percent

Primary salinity	82.46
Secondary salinity	9.72
Primary alkalinity	---
Secondary alkalinity	7.82
Chloride salinity	99.74
Sulfate salinity	0.26

Remarks and conclusions Milligram Equivalents multiplied by 10 on graph.

GEOMETRIC PATTERN
MEQ per unit



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton – Fort St. John – Calgary

WATER ANALYSIS REPORT

Field Well No. R.O.C. Grandview Hills #1

Operator Richfield Oil Corporation Date Received February 15, 1960.

Formation Depths 3000'-3070'

Other pertinent data D.S.T. #5. Recovered 670' black, muddy salt water.

Date February 29,1960. Lab. No. C2693

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na + K	Ca	Mg	Fe	SO_4	Cl	CO_3	HCO_3	OH	H_2S
7179	647	432		204	13000		565		

MILLIGRAM EQUIVALENTS

312.31	32.29	35.51		4.24	366.60		9.27		

MILLIGRAM EQUIVALENTS IN PERCENT

41.08	4.25	4.67		0.56	48.22		1.22		

Total Solids in Parts per Million

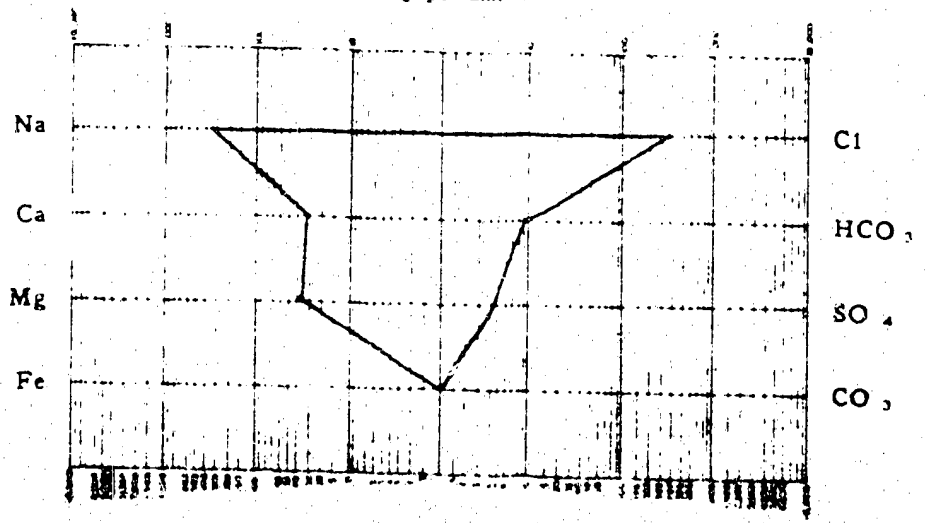
By evaporation	22,830
After ignition	18,550
Calculated	21,740
Specific Gravity	1.017
Observed pH	7.95
Resistivity 0.352	ohm meters @ 68° F.

Properties of Reaction in Percent

Primary salinity	82.16
Secondary salinity	15.40
Primary alkalinity	---
Secondary alkalinity	2.44
Chloride salinity	98.85
Sulfate salinity	1.15

Remarks and conclusions

LOGARITHMIC PATTERN
MEQ per unit



CGL-8

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton — Fort St. John — Calgary

WATER ANALYSIS REPORT

Field ..... Well No. Grandview Hills #1

Operator Richfield Oil Corporation Date Received April 5, 1960

Formation ..... Depths 5957' - 5996'

Other pertinent data D.S.T. #6. Recovered 60 feet mud and 200 feet salt water cut mud.

Date April 20, 1960 Lab. No. C 2826

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na & K	Ca	Mg	Fe	SO_4	Cl	CO_3	HCO_3	OH	H_2S
24,994	2,675	1,200	Present	739	46,000	---	415		

MILLIGRAM EQUIVALENTS

1087.26	133.48	98.64		15.37	1297.28		6.81		

MILLIGRAM EQUIVALENTS IN PERCENT

41.20	5.06	3.74		0.58	49.16		0.26		

Total Solids in Parts per Million

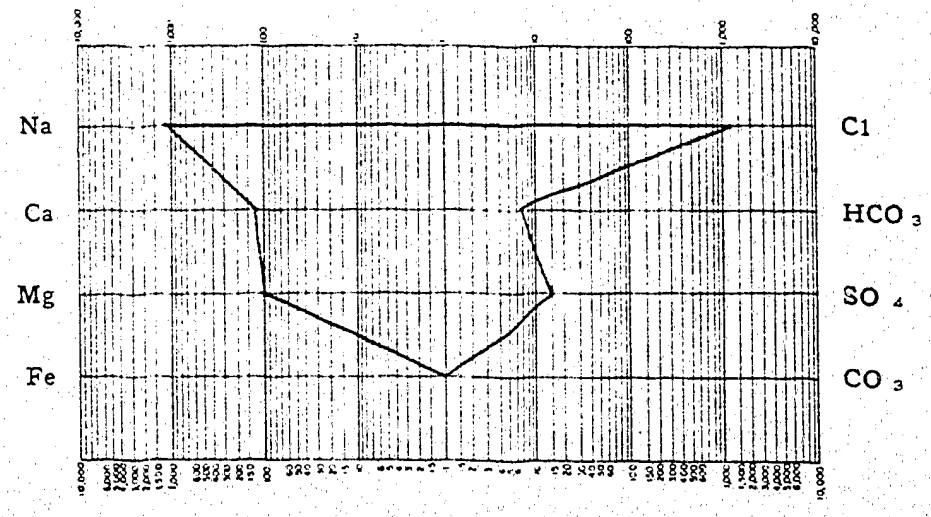
By evaporation	81,820
After ignition	73,200
Calculated	75,813
Specific Gravity	1.053
Observed pH	7.0
Resistivity	0.117 ohm meters @ 68° F.

Properties of Reaction in Percent

Primary salinity	82.40
Secondary salinity	17.08
Primary alkalinity	---
Secondary alkalinity	0.52
Chloride salinity	98.83
Sulfate salinity	1.17

Remarks and conclusions

LOGARITHMIC PATTERN
MEQ per unit



CORE ANALYSIS REPORT

FOR

RICHFIELD OIL CORPORATION

R. O. CORP. GRANDVIEW HILLS No. 1

WILDCAT

NORTHWEST TERRITORIES

CORE LABORATORIES - Canada Ltd.

Petroleum Reservoir Engineering

CALGARY, CANADA

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - RICHFIELD OIL CORPORATION
Well - R. O. CORP. GRANDVIEW HILLS NO. 1
Field - WILDCAT
Province - NORTHWEST TERRITORIES

Date Report - APRIL 13, 1960
Cores - DIAMOND
Analysis - FULL DIAMETER

File - CNP-4-773
Analysts - SS

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY TO AIR (HORIZONTAL) K MAX	PERMEABILITY TO AIR (HORIZONTAL) K 90°	PERMEABILITY TO AIR VERTICAL	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	VISUAL EXAMINATION
CORED INTERVAL 6520' - 6555'										
CORE NO. 17 6520' - 6555' (Rec. 32.1')										
1	6520.0-6520.9	0.9	0.43	0.34	<0.01	4.7	4.23	2.73	2.87	Intergranular
-	6520.9-6524.3	3.4	-	-	-	-	-	-	-	Dense, no sample
2	6524.3-6525.1	0.8	0.07	0.03	<0.01	1.9	1.52	2.78	2.83	Intergranular
3	6525.1-6525.8	0.7	0.07	0.07	<0.01	1.4	0.98	2.81	2.85	Few small vugs
4	6525.8-6526.8	1.0	0.12	0.07	<0.01	2.0	2.00	2.79	2.84	Small vugs
5	6526.8-6527.5	0.7	0.13	0.12	<0.01	1.7	1.19	2.81	2.86	Scattered pin pt. vugs
-	6527.5-6528.5	1.0	-	-	-	-	-	-	-	Dense, no sample
6	6528.5-6529.6	1.1	0.15	0.13	<0.01	5.6	6.16	2.68	2.84	Small vugs
7	6529.6-6530.7	1.1	16.	16.	0.03	3.3	3.63	2.75	2.85	Small vugs
8	6530.7-6531.2	0.5	2.3	0.12	<0.01	1.5	0.75	2.81	2.85	Pin pt. vugs, fracture
-	6531.2-6536.5	5.3	-	-	-	-	-	-	-	Dense, no sample
9	6536.5-6537.7	1.2	*	0.87	*	1.7	2.04	2.81	2.86	Pin pt. vugs, fracture
10	6537.7-6538.4	0.7	*	0.10	*	1.6	1.12	2.80	2.85	Few small vugs, fracture
11	6538.4-6539.0	0.6	<0.01	<0.01	<0.01	2.6	1.56	2.77	2.85	Small vugs
12	6539.0-6540.0	1.0	0.26	0.16	0.11	2.1	2.10	2.74	2.80	Small vugs
13	6540.0-6540.8	0.8	0.11	<0.01	<0.01	1.3	1.04	2.81	2.84	Few small vugs
14	6540.8-6541.3	0.5	1.2	0.13	<0.01	1.2	0.60	2.81	2.84	Small vugs, fracture
15	6541.3-6542.6	1.3	1.2	0.26	<0.01	1.4	1.82	2.80	2.84	Small vugs
16	6542.6-6543.5	0.9	<0.01	<0.01	<0.01	1.0	0.90	2.77	2.80	Few small vugs
-	6543.5-6546.4	2.9	-	-	-	-	-	-	-	Dense, no sample
17	6546.4-6547.7	1.3	0.09	0.06	<0.01	0.8	1.04	2.84	2.86	Dense
18	6547.7-6548.8	1.1	2.4	0.17	0.36	3.2	3.52	2.75	2.84	Small vugs

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	VISUAL EXAMINATION
CORE NO. 17 con't.										
19	6548.8-6549.8	1.0	*	3.4	*	6.0	6.00	2.68	2.85	Few small vugs, pin pt. vugs
20	6549.8-6550.9	1.1	0.17	0.15	2.8	4.8	5.28	2.71	2.85	Small vugs, pin pt. vugs
21	6550.9-6552.1	1.2	239.	0.06	136.	2.0	2.40	2.79	2.84	Pin pt. vugs, fracture
-	6552.1-6555.0	2.9	-	-	-	-	-	-	-	Lost Core

* No permeability due to fractured core - K 90° used for summary purposes.

Core with Permeability less than 1.0 Millidarcys

Total footage of core with less than 1.0 millidarcys permeability	14.5'
Weighted average porosity of core with less than 1.0 millidarcys permeability	2.36% (34.16)
Per cent of analyzed core having less than 1.0 millidarcys permeability	74.4%
Weighted average horizontal permeability of core with less than 1.0 millidarcys	0.19 md. (2.771)

Core with Permeability 1.0 to 9.9 Millidarcys

Total footage of core with 1.0 to 9.9 millidarcys permeability	3.9'
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability	3.10% (12.09)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability	20.0%
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys	2.2 md. (8.75)

Core with Permeability 10 Millidarcys and Greater

Total footage of core with permeabilities 10 millidarcys and greater	1.1'
Weighted average porosity of core with permeabilities 10 millidarcys and greater	3.30% (3.63)
Per cent of analyzed core having permeabilities 10 millidarcys and greater	5.6%
Weighted average horizontal permeability of core with permeabilities 10 millidarcys and greater	16. md. (17.5)

Cored interval	6520.0' - 6555.0'
Total footage	35.0'
Footage analyzed	19.5'
Footage not analyzed---------- Dense, no sample 12.6'-------- Lost Core 2.9'	15.5'
Weighted average porosity of core analyzed	2.56% (49.88)
Weighted average horizontal permeability of core analyzed	1.5 md. (29.121)

Note: Figures in parentheses indicate porosity feet and permeability feet.

CORE ANALYSIS REPORT

FOR

RICHFIELD OIL CORPORATION

RICHFIELD et al GRANDVIEW HILLS No. 1

WILDCAT

NORTHWEST TERRITORIES

CORE LABORATORIES - Canada Ltd.

Petroleum Reservoir Engineering

CALGARY, CANADA

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - RICHFIELD OIL CORPORATION
Well - RICHFIELD ET AL GRANDVIEW HILLS NO. 1
Field - WILDCAT, NORTHWEST TERRITORIES
Location - 67° 06.2' N. Lat. 130° 52.5' W. Long.

Date Report - FEBRUARY 1, 1960
Formation -
D. Fluid - WATER BASE MUD
Analysis - CONVENTIONAL

File - CNP-4-676
Analysts - SS-DR
Remarks -

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	POROSITY × FEET	VISUAL EXAMINATION
CORED INTERVAL 905' - 915'						
CORE NO. 3 905.0' - 915.0' (Rec. 9.1')						
1	905.0-905.8	0.8	0.11	17.0	13.60	Very fine sand
2	905.8-906.6	0.8	0.10	15.5	12.40	Very fine sand
3	906.6-907.4	0.8	0.14	18.7	14.96	Very fine sand
4	907.4-907.9	0.5	<0.01	3.6	1.80	Very fine sand, limy
5	907.9-908.3	0.4	0.14	18.7	7.48	Very fine sand
6	908.3-908.8	0.5	0.13	18.2	9.10	Very fine sand
7	908.8-909.7	0.9	0.29	18.6	16.74	Very fine sand
8	909.7-910.3	0.6	<0.01	6.1	3.66	Very fine sand, limy
9	910.3-911.3	1.0	0.11	15.3	15.30	Very fine sand
10	911.3-912.3	1.0	0.07	14.4	14.40	Very fine sand
11	912.3-913.2	0.9	0.10	14.6	13.14	Very fine sand
12	913.2-914.1	0.9	0.07	15.0	13.50	Very fine sand
-	914.1-915.0	0.9	-	-	-	Lost core

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA.

Company - RICHFIELD OIL CORPORATION
Well - RICHFIELD ET AL GRANDVIEW HILLS NO. 1
Field - WILDCAT, NORTHWEST TERRITORIES
Location - 67° 05' N Lat 130° 58' W Long

Date Report - SEPTEMBER 15, 1960
Formation -
D. Fluid - WATER BASE
Analysis - CONVENTIONAL

Page - 1 of 3
File - CNP-1-4984
Analysts - NC. WD.
Cores - DIAMOND

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	POROSITY X FEET	VISUAL EXAMINATION
CORED INTERVAL 3140' - 3164'						
Core No. 12 3140' - 3164' (Rec. 24.0')						
-	3140.0-3140.7	0.7	-	-	-	Dense, no sample
1	3140.7-3141.4	0.7	0.1	3.3	2.31	Pin point vugs
2	3141.4-3141.9	0.5	<0.1	1.9	0.95	Few pin point vugs
3	3141.9-3142.3	0.4	0.1	3.1	1.24	Pin point vugs
4	3142.3-3143.2	0.9	<0.1	1.3	1.17	Dense
5	3143.2-3144.1	0.9	<0.1	1.1	0.99	Dense
6	3144.1-3144.5	0.4	0.4	6.7	2.68	Pin point vugs
7	3144.5-3145.3	0.8	0.1	5.5	4.40	Small vugs, pin point vugs
8	3145.3-3145.8	0.5	5.2	6.2	3.10	Small vugs, pin point vugs
9	3145.8-3146.3	0.5	<0.1	4.1	2.05	Small vugs, pin point vugs
10	3146.3-3146.7	0.4	0.9	4.6	1.84	Small vugs, pin point vugs
11	3146.7-3147.5	0.8	<0.1	1.7	1.36	Few pin point vugs
12	3147.5-3148.3	0.8	<0.1	2.9	2.32	Few pin point vugs
13	3148.3-3149.0	0.7	5.2	11.8	8.26	Pin point vugs, intergranular
14	3149.0-3149.8	0.8	0.1	5.9	4.72	Pin point vugs
15	3149.8-3150.4	0.6	<0.1	3.3	1.98	Few pin point vugs
16	3150.4-3151.2	0.8	0.1	4.6	3.68	Pin point vugs
17	3151.2-3151.6	0.4	0.1	3.9	1.56	Pin point vugs
18	3151.6-3152.4	0.8	<0.1	3.3	2.64	Pin point vugs
19	3152.4-3153.1	0.7	<0.1	2.3	1.61	Pin point vugs
20	3153.1-3153.7	0.6	<0.1	1.6	0.96	Pin point vugs
21	3153.7-3154.7	1.0	<0.1	4.7	4.70	Intergranular
22	3154.7-3155.4	0.7	<0.1	1.3	0.91	Dense

Core with Permeability less than 1.0 Millidarcys

Total footage of core with less than 1.0 millidarcys permeability	9.1'	
Weighted average porosity of core with less than 1.0 millidarcys permeability	15.0%	(136.08)
Per cent of analyzed core having less than 1.0 millidarcys permeability	100%	
Weighted average horizontal permeability of core with less than 1.0 millidarcys	0.11 md	(1.00)

Core with Permeability 1.0 to 9.9 Millidarcys - Nil

Core with Permeability 10 Millidarcys and Greater - Nil

Cored Interval	905.0' - 915.0'	
Total footage	10.0'	
Footage analyzed	9.1'	
Footage not analyzed ---0.9' Lost core---	0.9'	
Weighted average porosity of core analyzed	15.0%	(136.08)
Weighted average horizontal permeability of core analyzed	0.11 md	(1.00)

Note: Figures in parentheses indicate porosity feet and permeability feet.

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - RICHFIELD OIL CORPORATION
Well - RICHFIELD OIL CORP. ET AL GRANDVIEW H. No. 1
Field - WILDCAT, NORTHWEST TERRITORIES
Location - 67° 06.2' N. Lat. 130° 52.5' W. Long

Date Report - FEBRUARY 9, 1960
Formation -
D. Fluid - WATER BASE MUD
Analysis - CONVENTIONAL

Page - 1 of 4
File - CNP-4-692
Analysts - CE:BK
Cores - DIAMOND

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	POROSITY X FEET	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VISUAL EXAMINATION
CORE NO. 8 2414' - 2447' (Rec. 33.0')								
-	2414.0-2436.8	22.8	-	-	-	-	-	Dense, no sample
1	2436.8-2437.1	0.3	0.14	4.4	1.32	11.3	19.1	Pin point vugs
2	2437.1-2437.5	0.4	<0.01	1.4	0.56	0.0	50.0	Few pin pt. vugs
3	2437.5-2438.1	0.6	<0.01	1.2	0.72	0.0	33.3	Few pin pt. vugs
4	2438.1-2438.9	0.8	<0.01	1.4	1.12	0.0	50.0	Few pin pt. vugs
5	2438.9-2439.3	0.4	<0.01	1.5	0.60	0.0	46.7	Few pin pt. vugs
	2439.3-2447.0	7.7	-	-	-	-	-	Dense, no sample

SUMMARY OF CORE NO. 8

Core with Permeability less than 1.0 Millidarcys

Total footage of core with less than 1.0 millidarcys permeability	2.5'
Weighted average porosity of core with less than 1.0 millidarcys permeability	1.7% (4.32)
Per cent of analyzed core having less than 1.0 millidarcys permeability	100.%
Weighted average horizontal permeability of core with less than 1.0 millidarcys	0.02 md. (0.04)

Core with Permeability 1.0 to 9.9 Millidarcys - Nil

Core with Permeability 10 Millidarcys and Greater - Nil

Cored interval	2414' - 2447'
Total footage	33.0'
Footage analyzed	2.5'
Footage not analyzed ---------- Dense 30.5'	30.5'
Weighted average porosity of core analyzed	1.7% (4.32)
Weighted average horizontal permeability of core analyzed	0.02 md. (0.04)

Note: Figures in parentheses indicate porosity feet and permeability feet.

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

RICHFIELD OIL CORPORATION
RICHFIELD OIL CORP. ET AL GRANDVIEW H. NO. 1

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	POROSITY X FEET	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VISUAL EXAMINATION
CORE NO. 9 2540' - 2560' (Rec. 20.0')								
-	2540.0-2540.9	0.9	-	-	-	-	-	Dense, no sample
6	2540.9-2541.5	0.6	<0.01	1.9	1.14	0.0	36.7	Few pin point vugs
7	2541.5-2541.9	0.4	0.24	5.4	2.16	0.0	37.1	Pin point vugs
8	2541.9-2542.6	0.7	27.	12.4	8.68	17.8	14.5	Pin point vugs
9	2542.6-2543.4	0.8	0.04	5.6	4.48	19.6	20.7	Pin point vugs
10	2543.4-2543.7	0.3	0.68	10.7	3.21	6.6	15.6	Pin point vugs
-	2543.7-2560.0	16.3	-	-	-	-	-	Dense, no sample

SUMMARY OF CORE NO. 9

Core with Permeability less than 1.0 Millidarcys

Total footage of core with less than 1.0 millidarcys permeability	2.1'
Weighted average porosity of core with less than 1.0 millidarcys permeability	5.2% (10.99)
Per cent of analyzed core having less than 1.0 millidarcys permeability	75.0%
Weighted average horizontal permeability of core with less than 1.0 millidarcys	0.16 md. (0.33)

Core with Permeability 1.0 to 9.9 Millidarcys - Nil

Core with Permeability 10 Millidarcys and Greater

Total footage of core with permeabilities 10 millidarcys and greater	0.7'
Weighted average porosity of core with permeabilities 10 millidarcys and greater	12.4% (8.68)
Per cent of analyzed core having permeabilities 10 millidarcys and greater	25.0%
Weighted average horizontal permeability of core with permeabilities 10 millidarcys and greater	27. md. (18.90)

Cored interval	2540' - 2560'
Total footage	20.0'
Footage analyzed	2.8'
Footage not analyzed ---------- Dense 17.2'	17.2'
Weighted average porosity of core analyzed	7.0% (19.67)
Weighted average horizontal permeability of core analyzed	6.9 md. (19.23)

Note: Figures in parentheses indicate porosity feet and permeability feet.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOTAGE REPRESENTED	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	POROSITY X FEET	VISUAL EXAMINATION
Core No. 12 cont'd.						
23	3155.4-3155.8	0.4	<0.1	3.8	1.52	Pin point vugs
24	3155.8-3156.5	0.7	0.1	4.1	2.87	Pin point vugs
25	3156.5-3157.0	0.5	0.4	5.1	2.55	Pin point vugs
26	3157.0-3158.1	1.1	<0.1	2.8	3.08	Pin point vugs
27	3158.1-3158.9	0.8	0.1	5.8	4.64	Pin point vugs
28	3158.9-3159.7	0.8	0.3	8.0	6.40	Pin point vugs
29	3159.7-3160.9	1.2	<0.1	1.9	2.28	Dense
30	3160.9-3161.8	0.9	9.6	6.9	6.21	Small vugs, pin point vugs
31	3161.8-3162.8	1.0	<0.1	1.9	1.90	Dense
32	3162.8-3163.2	0.4	<0.1	2.1	0.84	Pin point vugs
33	3163.2-3164.0	0.8	<0.1	1.5	1.20	Dense

Core with Permeability 0.0 to less than 0.1 Md.

Total footage of core with permeability 0.0 to less than 0.1 millidarcys	13.7'	
Weighted average porosity of core with permeability 0.0 to less than 0.1 millidarcys	2.37%	(32.46)
Per cent of analyzed core having permeability 0.0 to less than 0.1 millidarcys	58.8%	
Weighted average horizontal permeability of core with permeability 0.0 to less than 0.1 md.	<0.1 md.	

Core with Permeability 0.1 to 0.9 Millidarcys

Total footage of core with 0.1 to 0.9 millidarcys permeability	7.5'	
Weighted average porosity of core with 0.1 to 0.9 millidarcys permeability	5.19%	(38.89)
Per cent of analyzed core having 0.1 to 0.9 millidarcys permeability	32.2%	
Weighted average permeability of core with 0.1 to 0.9 millidarcys	0.2 md.	(1.6)

Core with Permeability 1.0 to 9.9 Millidarcys

Total footage of core with 1.0 to 9.9 millidarcys permeability	2.1'	
Weighted average porosity of core with 1.0 to 9.9 millidarcys permeability	8.37%	(17.57)
Per cent of analyzed core having 1.0 to 9.9 millidarcys permeability	9.0%	
Weighted average horizontal permeability of core with 1.0 to 9.9 millidarcys	7.1 md.	(15.0)

Core with Permeability 10 Millidarcys and Greater - Nil

Cored Interval	3140' - 3164'	
Total footage	24.0'	
Footage analyzed	23.3'	
Footage not analyzed ---------- Dense 0.7' ----------	0.7'	
Weighted average porosity of core analyzed	3.82%	(88.92)
Weighted average horizontal permeability of core analyzed	0.7 md.	(16.6)

Note: Figures in parentheses indicate porosity feet and permeability feet.

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Northwest Territories

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1	770	776	2½'	Med/dk Grey	No visible bedding		Shale	2½' slightly silty shale with thin light brown, very micaceous, silty stringers up to 1/2" thick. Shale is fairly hard and brittle, fractures vertical. Thin silty stringers indicate nearly horizontal bedding.				
2	776	780	5½' (1½' part of Core 1)	Med/dk Grey	No visible bedding		Shale	Shale as above with light brown, silty stringers up to 2" thick. Trace black, shiny coal or tar on bedding plane. Note: Faulty core catcher left part of Core No. 1 in hole, picked up with Core No. 2.				
3	905	915	10'	Light greyish-brown	No apparent bedding	Very fine to fine grained	Sandstone	Fairly well sorted, angular to subrounded, very micaceous, calcareous in part with some light to medium grey shaly patches. Chunks of light to medium grey limestone up to 8" thick at 905, 908 and 911'. Probably limestone boulders from underlying Ramparts Formation. Cores seem to be bleeding water and a little bit of gas. Light brown stain, good petroliferous odor, poor to fair fluorescence.	Fair	Mica Pyrite		
4	1221	1270	49'	Med grey	thin		Shale	Micromicaceous, silty, calcareous with few, very thin, light grey siltstone stringers.		Mica	Fossils in upper part of cored interval.	

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Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5	1659	1704	45'									
	1659	1667		Medium greyish-brown to dark grey		Dense to micro-crystalline	Limestone & Shale	interbedded limestone and dark grey calcareous shale. Limestone argillaceous in part, fossiliferous, vertical fracture in top 3 feet, mostly filled with white calcite, some porosity along fracture. Slight trace of oil bleeding from fracture.	Trace porosity in fractures	Calcite	Abundant Brachio-pods.	
	1667	1697		Medium Grey	Thin to Thick	Dense to micro-crystalline	Shale & Limestone	Mostly calcareous shale grading to argillaceous limestone in part with thin stringers of medium greyish-brown crystalline limestone, very fossiliferous.	Tight		Abundant Brachiopods	
	1697	1704		Medium Grey	Thin to Thick		Shale & Limestone	Shale as above with increasing amount of greyish-brown crystalline limestone near base, very fossili-ferous.	Tight		Abundant Brachiopods	
6	1896	1941	45'									
	1896	1906		Medium grey to light buff to brown	Thin to Medium	Dense to micro-crystalline	Limestone	Argillaceous in part, with shaly parting and bituminous patches, trace oil bleeding from bituminous patches. Trace vugular porosity at 1903. Vugs are isolated and mostly infilled with secondary calcite. Vugs not filled with calcite are full of black oil.	Trace vugular porosity at 1903'	Calcite		

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
	1906	1918		Medium grey to light buff to brown	Thin to Medium	Dense to microcrystalline	Limestone	As above with bleeding oil & gas. Oil seems to be coming from bitumen patches and minute fractures. Cores, after sitting all night, nearly covered in part with light green to black oil.	No apparent porosity			
	1918	1924		As above	As above	As above	Limestone	As above, trace bleeding oil.	As above			
	1924	1927½		Dark brn-grey	Thin	Dense	Limestone	very argillaceous, grading to calcareous shale.	Tight			
	1927½	1936		Dark brownish-grey to black	Thin	Dense	Limestone	fairly hard, argillaceous in part, with shaly partings. Strong H2S odour.	Tight	Calcite		
	1936	1941		Light buff to dark grey-brown	Very thin	Lithographic to micro-crystalline	Limestone	hard, laminated light buff to dark greyish-brown, with calcite filled fractures. (Cored 15/20 minutes per foot). Bottom part of cores jammed.	Tight	Calcite		
7	2145	2195	50'									
	2145	2151		Light buff to dark brownish-grey	Very thin	Dense to microcrystalline	Limestone	very thin bedded, light buff and dark brown limestone. Some H2S odour, trace small vugs completely infilled with secondary calcite.	Tight	Calcite		
	2151	2156		As above.	Massive	Lithographic to micro-crystalline	Limestone	in part light and dark brown mottled, trace vugs filled with secondary calcite. Some H2S odour, bituminous in part.	Tight	Calcite		

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
	2156	2195		Light buff to dark brown to black	Thin to thick	Lithographic to micro-crystalline		Thin laminated light buff and dark brown limestone in part. 2" of breccia at 2173 with some slump structures. Lower Part more massive lithographic limestone with bitumen partings. Calcite filled fractures and micro vugs in part. Slight trace of bleeding oil and gas at 2185. 1' breccia at 2161, small light buff chunks in dark brown matrix, abundant calcite filled vugs.	Tight	Calcite		
8	2414	2447	33'									
	2414	2430		Light to medium brown	Thin to thick	Lithographic to micro-crystalline	Limestone	Hard, with shaly bituminous partings some fractures near top. Becoming darker in color near base.	Tight	Calcite		
	2430	2431		Light brownish-grey	Massive	Lithographic	Dolomite	hard with calcite filled micro vugs and fractures.	Tight	Calcite		Lone Mtn.?2430
	2431	2437½		Light to dark brown	Thin	Dense to microcrystal-line	Limestone	alternating with light and dark brown thin bedded limestone with shaly bituminous partings, hard.	Tight	Calcite		
	2437½	2439½		Light buff to medium brown	Thin	Microcrystal-line to micro granular	Dolomite	sugary texture in part with micro vugular porosity in part. Abundant calcite and dolomite crystals lining vugs. Oil and gas bleeding from part of interval.	Micro-vugular porosity in part.	Calcite Dolomite crystals		
	2439½	2441½		Light to medium grey	Thin	Dense	Dolomite	hard, pyrite disseminated through-out dolomite, tight.	Tight	Pyrite		
	2441½	2447		Light to dark greyish-brown	Thin	Dense to microcrystal-line	Limestone	light and dark alternating bands limestone with black bitumenous partings. H2S odour.	Tight			

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
9	2540	2560	20'									
	2540	2542		Light to medium grey to light brown	Thin	Dense	Limestone, Dolomite & Shale	Interbedded light medium grey, pyritic shale and medium grey to light brown limestone and dolomite. Slickensides on shale.	Tight	Pyrite		
	2542	2544½		Light to medium brown	Thin	Micro-crystalline	Dolomite	sugary in part, limy in part with fair to good intercrystalline porosity, bleeding oil and gas, light green to black oil.	Fair to Good			
	2544½	2549½		As above	Thin	Dense to micro-crystalline	Limestone & Dolomite	Interbedded light to medium brown limestone and dolomite.	Tight			
	2549½	2550		Light to medium grey	Thin		Shale	dolomitic shale, pyritic.		Pyrite		
	2550	2554		Light to medium greyish-brown	Thin	Dense to micro-crystalline	Limestone	thin interbedded light to medium greyish-brown limestone, mottled in part, lithographic in part.	Tight	Pyrite		
	2554	2555½		Light green	Thin		Shale	very slightly calcareous, slicken-sides with small angular chunks of medium brown limestone, pyritic.	Tight	Pyrite		
	2555½	2560		Light grey to medium brown	Thin	Dense to micro-crystalline	Limestone	Limestone with few thin shaly bands.		Pyrite		

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
10	2710	2742	32'									
	2710	2712½		Light brown to medium greyish-brown	Thin	Dense to micro-crystalline	Limestone	light brown, dense limestone with interbedded medium greyish-brown limestone, mottled in part, calcite filled fractures. Some trace micro-vugular porosity. Some slump structures. Strong H2S odor.	Trace	Calcite		
	2712½	2719		Medium greyish-brown	Massive	Micro-crystalline	Limestone	Trace micro-vugular porosity and intercrystalline porosity. Numerous calcite filled fractures. Strong H2S odour.	Trace	Calcite		
	2719	2721		Light greyish-brown	Massive	Dense	Limestone	Numerous calcite filled fractures and micro vugs. H2S odour.	Tight	Calcite		
	2721	2742		Medium greyish-brown	Thin	Micro-crystalline	Limestone & Dolomite	Interbedded microcrystalline limestone and dolomite. Calcite filled micro vugs and fractures, trace porosity, strong H2S odour, becoming more dolomitic near base.	Trace	Calcite		

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
11	2947	2982	35'									
	2947	2982		Light buff to dark greyish-brown	Thin to Thick	Micro-crystalline to micro-granular	Dolomite & Limestone Breccia	Mostly medium to dark brown, micro-crystalline limestone and dolomite with light buff to light brown, micro-granular, earthy, blocks of dolomite up to 1' thick. Abundant calcite filled fractures and partially filled micro vugs. Mottled in part, strong H2S odour. Few black bituminous, shaly partings, trace intercrystalline porosity. Becoming less brecciated near base of interval. Possible fossil fragments at 2973-2974.	Trace	Calcite	Fragments	

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
12	3140	3164	24'									
	3140	3140½		Medium to dark grey-brown	Thin	Micro-crystalline	Dolomite	limy in part, calcite filled fractures, trace intercrystalline porosity. (Six inch piece of dolomite as above. Has irregular contact with underlying light brown dolomite. Appears to be local unconformity or blocks of dolomite).	Trace	Calcite		
	3140½	3143½		Light buff to light brown	Thin	"	Dolomite & Limestone	limy dolomite in part, grading to light brown, microcrystalline limestone, dark grey, wavy bedding planes, fair intercrystalline porosity in part. H2S odour, no cut, stain or fluorescence.	Fair	Calcite		
	3143½	3145		As above	As above	As above	Dolomite	sugary in part, fair to good intercrystalline porosity, fair to good vugular porosity. Some vugs up to 1/2". Strong H2S odour, no cut, stain or fluorescence.	Good	Calcite		
	3145	3164		Light to dark grey	As above	Dense to micro-crystalline	Dolomite & Limestone	interbedded light to dark brown dolomite, microcrystalline, limy in part and light to dark greyish-brown, dense to micro-crystalline limestone, dark grey, wavy bedding planes in part. Fair intercrystalline porosity, locally vuggy porosity, strong H2S odour, no cut stain or fluorescence, calcite filled fractures.	Fair	Calcite		

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
13	3319	3349	30'									
	3319	3320		Medium grey	Thin	Dense	Dolomite	argillaceous, very pyritic, fairly soft.	Tight	Pyrite		
	3320	3330		Light to medium grey	Medium	Dense	Dolomite	interbedded medium grey dolomite as above and light grey, argillaceous pyritic dolomite with black bituminous partings in part. Calcite filled vugs becoming mottled near base.	Tight	Pyrite Calcite		
	3330	3349		Light greyish-green to light buff to light brown	No bedding	Dense	Shale & Limestone Breccia or Detrital Zone	light greyish-green, waxy, non-calcareous shale with blocks of light buff to light brown, dense limestone up to 3" thick, very pyritic in part. (Appears to be Detrital Zone).	Tight	Pyrite		
14	3545	3593	48'									
	3545	3565		Light to medium brownish-grey	Thin	Dense	Dolomite	hard, siliceous in part, wavy bedding planes in part, limy in part, mottled, light and medium grey, slightly argillaceous in part. Calcite filled fractures. Vertical fracture near top of core.	Tight	Calcite	None Observed	
	3565	3566		Light brownish-grey		Dense	Dolomite	hard, siliceous, quartz filled micro vugs in part with medium grey shaly partings in part.	Tight	Calcite Quartz	Possible fossil zone	
	3566	3574½		Light grey	Thick	Dense	Dolomite	hard, siliceous in part, calcite filled fractures.	Tight	Calcite		
	3574½	3582		Light to medium brownish-grey	Thin	Dense	Dolomite	same as 3545-3565	Tight	Calcite		

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
	3582	3585		Light grey to light brown	Thin	Dense to micro-crystalline	Dolomite	interbedded light grey dolomite as above and light brown, micro-crystalline dolomite, light brown dolomite has fair to good micro vugular porosity in part. H2S odour, salty taste.	Fair to Good			
	3585	3593		Light to medium grey	Thin	Dense	Dolomite	interbedded light to medium grey, hard, siliceous in part, wavy bedding planes in part, becoming mottled near base.	Tight			
15	4119	4128	7'									
	4119	4128		Buff to dark brown to brownish-grey	Thick	Medium to finely crystalline to dense	Dolomite	Dolomite buff to dark brown to brownish-grey, medium to finely crystalline to dense, hard, calcareous, siliceous in part, very slightly pyritic in part, argillaceous in part, minor vugular porosity, trace of intercrystalline porosity with common calcite-filled fractures up to 1½" thick. Fractures occur mainly at a dip of 15 to 25°, occasional vertical fracture. Minor thin shale partings on fractures. Shale, black, bituminous, fissile, occasionally green and waxy. Calcite white, coarsely crystalline, tight. Strong H2S odour.	Minor	Calcite Pyrite	None Observed.	

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Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
16	4210	4231	21'									
	4210	4231		Brownish-grey	Thick	Dense to micro-crystalline to finely crystalline	Dolomite	Dolomite, brownish-grey, dense to microcrystalline to finely crystalline, silty in part, slightly calcareous, hard, siliceous in part with fair to poor vugular porosity, vugs are lined with coarse dolomite crystals in part. No cut, stain, odour or fluorescence, strong H2S odour, common vertical fractures, occasionally filled by coarsely crystalline calcite, white, tight.	Minor Vugular Porosity	Calcite	None Observed	

Core No.	Cored From	Cored To	Recovered	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
17	6520	6555	34'									
	6520	6532½		Light grey to medium greyish-brown	Thin to thick	Medium to very coarse crystalline	Dolomite	almost clear, coarse to very coarse crystalline dolomite with medium greyish-brown, argillaceous, fine crystalline dolomite matrix. Some large calcite crystals, good to excellent vugular porosity in lower 3 feet of interval. No cut, stain or fluorescence, strong sulfury water odour, bleeding water in part, vugs lined with well developed dolomite crystals, some vugs in center of core filled with drilling mud, slumping or brecciation at 6523-6524.	Good to Excellent vugular porosity in part	Calcite Pyrite		
	6532½	6540		Light buff to light grey	Thin to thick	Dense to micro-crystalline	Dolomite	mottled in part with few hard shaly partings, trace vugular porosity partially infilled with dolomite and quartz crystals, no cut, stain or fluorescence, sulfury odour.	Trace	Calcite Quartz Pyrite		
	6540	6543		Light buff to medium brownish-grey		As above	Dolomite	mottled light buff and medium brownish-grey dolomite with good vugular porosity, no cut, stain, or fluorescence, sulfury odour, vugs lined with dolomite crystals.	Good	Calcite Quartz Pyrite		
	6543	6555		As above		As above	Dolomite	light grey, dense dolomite in part and light buff to medium brownish-grey mottled dolomite, fair vugular porosity in lower 5'. No cut, stain or fluorescence, sulfury odour.	Fair	Calcite Quartz Pyrite		

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Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
40	50			Fine to Coarse	Gravel	Gravel fine to coarse, clear to frosted quartz, angular, dark grey shale, quartz sandstone, some igneous material, some chert.		Mica		
50	60			As above	Gravel	As above with medium to dark grey clay.		Mica		
60	70			As above	Gravel	As above, igneous material abundant.		Mica		
70	80			As above	Gravel	As above.				
80	90			As above	Gravel	As above.				
90	100			As above	Gravel	As above with light grey siltstone.				
100	110			As above	Gravel	As above with light grey to reddish-brown siltstone, some fine grained quartzose sandstone.		Pyrite		
110	120			As above	Gravel, Sandstone & Siltstone	Gravel as above with light grey to light reddish-brown, fine grained sandstone, some light grey shale and siltstone.				
120	130	Grey to reddish-brown		As above	As above	As above.				
130	140			As above	Sandstone	Sandstone very fine to medium grained, with light greyish-brown siltstone, trace light to medium grey shale.	Fair to Medium			
140	150	Light grey to light brown		Very fine to medium	Sandstone & Siltstone	As above.	Fair to Medium			
150	160	Light to medium brownish-grey			Shale	slightly calcareous, slightly silty, micromicaceous, trace siltstone and fine grained sandstone.		Mica		
160	170	Light grey to light brownish-grey			Shale	silty, very slightly calcareous, micro-micaceous with trace light grey siltstone.		Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
170	180	Light grey to light brownish-grey			Shale	As above.		Mica		
180	190	As above		Fine grain	Shale	As above with interbedded, fine grained sandstone.		Mica		
190	200	As above		Fine grained	Shale	Shale silty, with interbedded fine grained sandstone and siltstone, carbonaceous in part, micromicaceous.		Mica		
200	210	As above		Very fine grained	Shale	As above with siltstone as above, carbonaceous in part, micromicaceous.		Mica		
210	220	Light grey to light brownish-grey		Very fine grained	Siltstone & Sandstone	Interbedded, very fine grained, salt and pepper sandstone and siltstone, carbonaceous, micaceous with light grey shale as above.		Mica		
220	230	As above		As above	Shale	micromicaceous, silty in part, grading light brownish-grey siltstone, carbonaceous in part, calcareous.		Mica		
230	240	As above		As above	Shale	As above with trace of fine grained quartz sandstone.				
240	250	Light grey		Silty to very fine grained	Shale	As above with light grey to light brownish-grey, calcareous, carbonaceous siltstone, with very fine grained sandstone.				
250	260	Light brownish-grey		As above	Siltstone & shale	interbedded light grey shale and light brownish-grey, carbonaceous, micaceous, slightly calcareous, siltstone, grading to very fine grained sandstone.		Mica		
260	270	Light grey to light brownish-grey		As above	Siltstone	Siltstone as above with interbedded light grey micaceous shale, trace very fine grained sandstone.				

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Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
270	280	Light grey to light brownish-grey			Shale	light grey, micromicaceous shale with interbedded light brownish-grey, carbonaceous, slightly calcareous siltstone.		Mica		
280	290	As above			Shale	As above.				
290	300	As above			Shale	As above.				
300	310	Light grey			Shale	Shale grading light brownish-grey with interbedded light brownish-grey, carbonaceous siltstone, trace light brown, dense limestone (ironstone).				
310	320	As above			Shale	as above.				
320	330	As above			Shale	light grey, micromicaceous. Shale with some light brownish-grey, carbonaceous siltstone.		Mica		
330	340	As above			Shale	as above.				
340	350	As above			Shale	as above with trace of very fine grained sandstone.		Mica		
350	360	Light to medium grey			Shale	slightly silty in part, micromicaceous.				
360	370	As above			Shale	as above.				
370	380	As above			Shale	as above, siltstone more common.				
380	390	Light to medium grey			Shale	slightly silty in part, micromicaceous in part, with trace of light grey siltstone.		Mica		
390	400	As above			Shale	As above.				
400	410	As above			Shale	As above.				
410	420	As above			Shale	As above, more silty with interbedded light to medium grey siltstone.				

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
420	430	Light to medium grey			Shale	Shale and siltstone as above with trace medium brownish-grey, dense limestone.				
430	440	As above			Shale & Siltstone	Interbedded light to medium grey shale as above and carbonaceous, micaceous siltstone, grading to very fine grained sandstone.		Mica		
440	450	As above			As above	As above.				
450	460	As above			As above	Shale with interbedded siltstone as above.				
460	470	As above			As above	As above.				
470	480	Light to medium grey			Shale & Siltstone	Interbedded shale and slightly calcareous, carbonaceous siltstone, grading to very fine grained sandstone in part.		Mica		
480	490	As above			Siltstone	As above with interbedded shale as above.		Mica		
490	500	As above			Siltstone	As above very fine grained sandstone more common.		Mica		
500	510	As above			Shale	silty in part, micromicaceous, grading to light to medium grey, slightly carbonaceous, slightly calcareous, micaceous siltstone, trace very fine grained sandstone.		Mica		
510	520	As above			Shale & Siltstone	Shale as above with interbedded siltstone as above and some very fine grained sandstone.		Mica		
520	530	As above			Shale	slightly silty in part, micromicaceous in part with siltstone as above.		Mica		
530	540	As above			Shale	as above.		Mica		
540	550	As above			Shale	as above.		Mica		
550	560	As above			Shale	As above.		Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
560	570	Light to medium grey			Shale	as above, siltstone more common, trace very fine grained sandstone.		Mica		
570	580	As above			Shale	as above.				
580	590	As above			Shale	as above.		Mica		
590	600	As above			Shale	Interbedded shale as above and siltstone, as above with trace very fine grained sandstone.		Mica		
600	610	Light to medium grey			Shale & Siltstone	interbedded micromicaceous shale and light to medium grey siltstone.		Mica		
610	620	As above			As above	As above.		Mica		
620	630	As above		very fine grained	Shale	micromicaceous with interbedded very slightly calcareous, light to medium grey siltstone, grading to very fine grained sandstone.		Mica		
630	640	As above		As above	As above	Shale slightly silty in part with interbedded slightly calcareous, slightly carbonaceous siltstone, trace very fine grained sandstone.		Mica		
640	650	Light grey to light brownish-grey		As above	As above	Shale and siltstone as above with very fine grained sandstone.		Mica		
650	660	Light to medium grey		Fine grained	Sandstone & shale	Interbedded shale as above and very fine grained to fine grained, calcareous carbonaceous salt and pepper sandstone.	Tight	Mica		
660	670	As above		As above	As above	As above..	Tight	Mica		
670	680	As above			Shale	slightly silty in part, slightly micromicaceous in part, with trace very fine grained sandstone (cement).		Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
680	690	Light to medium grey		Very fine grained	Shale	As above, with interbedded light to medium grey siltstone and very fine grained sandstone, salt and pepper in part, slightly carbonaceous.				
690	700	Mediumto dark grey		Fine grained	Shale	Shale as above with siltstone and sandstone more abundant, sandstone is more micaceous, some carbonaceous partings.	Tight	Mica		
700	710	Light to medium grey		As above	Shale	as above with trace ironstone.	Tight			
710	720	As above		As above	Shale	Shale, siltstone and sandstone as above sandstone, slightly calcareous, pyritic.	Tight	Mica Pyrite		
720	730	As above			Shale	As above with trace of siltstone and sandstone as above.				
730	740	Light to dark grey			Shale	slightly micaceous, slightly silty, has greenish tinge in part with interbedded light to medium grey carbonaceous, micaceous siltstone, slightly calcareous.		Mica		
740	750				Shale	As above.		Mica		
750	760	As above			Shale	very slightly micromicaceous, greenish tinge in part.				
760	770	As above			Shale	As above.				
770	780	Medium to dark grey	Cored (Reaming Sample)		Shale	micromicaceous, silty in part with trace of tarry material, trace of very fine grained, salt and pepper sandstone.		Mica Pyrite		
780	790	As above			Shale	As above.		Mica Pyrite		
790	800	Light to dark grey			Shale	as above coal or tarry material more common. Trace of light brown siltstone, trace of salt and pepper very fine grained sandstone.		Mica Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
800	810	Lt to dark grey			Shale	As above with light tan, very micaceous, silty stringers, trace pyrite, trace very fine grained, salt and pepper sandstone.		Mica Pyrite		
810	820	Medium to dark grey			Shale	As above, with trace of coal.		Mica Pyrite		
820	830	Medium to dark grey			Shale	As above.		Mica Pyrite		
830	840	As above			Shale	as above with light brown, very micaceous soft shale, shiny, black, brittle coal, fairly common, trace medium to dark grey siltstone, some pyrite in light brown shale.		Mica Pyrite		
840	850	Light to dark grey			Shale	micromicaceous shale as above with some very hard, pyritic, silty shale. Trace dark grey chert, trace medium grey siltstone, trace light brown micaceous shale, siltstone slightly calcareous.		Pyrite Mica		
850	860	As above			Shale	as above, pyritic shale more abundant, trace chert, trace ironstone, trace very fine grained, salt and pepper sandstone.		Pyrite Mica		
860	870	As above			Shale	As above.				
870	880	As above			Shale	As above with light grey, very fine grained sandstone, very micaceous, trace coal, trace pyrite.				
880	890	Light grey		Fine to very fine grained	Sandstone	Angular to rounded, fairly well sorted, very micaceous, slightly calcareous in part. Some pinpoint porosity, trace light grey limestone and shale as above.	Poor	Mica		
890	900	Light to dark grey		As above	Sandstone & Shale	Sandstone as above, pyritic with interbedded medium to dark grey silty shale.	Poor	Mica Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
900	905	Light grey		Fine to very fine grained	Sandstone	as above, seems to have very light brown stain, fair to good fluorescence, fair porosity. Sandstone fairly friable in part, with shale as above.	Fair	Pyrite Mica		
905	910	Light greyish-brown		As above	Sandstone	angular to subrounded, fairly well sorted very micaceous, slightly calcareous in part, light brown stain, good petroliferous odor, poor fluorescence.	Poor	Mica Pyrite	Reaming Sample	
910	920	Light grey to light greyish-brown		As above	Sandstone	as above with brown bitumen or carbon flakes.	Poor	Mica Pyrite		
920	930	As above		As above	Sandstone	As above.	Poor	Mica Pyrite		
930	940	As above		As above	Sandstone	Sandstone as above.	Poor	Mica Pyrite		
940	950	As above		As above	Sandstone & Claystone	As above with light grey, very soft, very micaceous. Claystone and siltstone with trace light tan crystalline dolomite.	Tight to Poor	Mica Pyrite		
950	960	As above		As above	Sandstone & Shale	Sandstone as above, very hard, in part slightly calcareous, with grey, very micaceous, very soft shale or claystone.	Tight	Mica Pyrite		
960	970	Light grey		As above	Sandstone & Shale	Interbedded light grey shale as above & sandstone as above.	Tight	Mica Pyrite		
970	980	Light grey		As above	Sandstone & Shale	As above.	Tight	Mica Pyrite		
980	990	Light grey		As above	Sandstone & Shale	As above with light grey siltstone.				

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
990	1000	Light to medium grey		Fine to very fine grained.	Sandstone & Shale	As above, shale is darker color.	Tight	Mica Pyrite		
1000	1010	Light grey to light tan		As above	Sandstone & Shale	Sandstone as above, slightly calcareous in part, with light grey, very micaceous shale, and siltstone.	Tight	Mica Pyrite		
1010	1020	Light to medium grey		Fine to very fine grained	Sandstone & Shale	Interbedded, slightly calcareous, slightly carbonaceous sandstone, light to medium grey, very micaceous, soft shale.	Tight	Mica Pyrite		
1020	1030	As above		As above	Sandstone & Shale	Sandstone & shale as above with some light grey siltstone, trace light tan limestone.	Tight	Mica		
1030	1040	As above		As above	Sandstone & Shale	As above	Tight	Mica		
1040	1050	As above		As above	Sandstone & Shale	As above.	Tight	Mica		
1050	1060	As above		As above	Sandstone & Shale	Shale and sandstone as above.	Tight	Mica		
1060	1070	As above		As above	Sandstone	Calcareous in part, micaceous with interbedded light to medium grey, very micaceous, soft shale.	Tight	Mica		
1070	1080	As above		As above	Sandstone	As above.	Tight	Mica		
1080	1090	As above		As above	Sandstone	Sandstone & shale as above.	Tight	Mica		
1090	1100	As above		As above	Siltstone	Interbedded, very micaceous, slightly calcareous, carbonaceous in part, siltstone and light grey, soft shale with some fine to very fine grained sandstone.	Tight	Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1100	1110	Light to medium grey		Fine to very fine grained	Shale	slightly calcareous in part, very micaceous, silty with interbedded light grey siltstone, and very fine grained sandstone.	Tight	Mica		
1110	1120	As above		Very fine grained	Shale	interbedded soft, micaceous, silty shale and light grey, micaceous, carbonaceous in part siltstone with very fine grained sandstone.	Tight	Mica		
1120	1130	As above		As above	Shale	As above.	Tight	Mica		
1130	1140	As above		As above	Shale & Sandstone	Interbedded shale as above and fine to very fine grained, slightly calcareous, very micaceous sandstone. (Biotite and Muscovite).	Tight	Mica		
1140	1150	As above		As above	Shale & Sandstone	As above.	Tight	Mica		
1150	1160	As above		As above	Shale & Sandstone	As above, calcareous.	Tight	Mica		
1160	1170	As above		As above	Shale & Sandstone	As above with trace light grey to light brown, dense limestone.	Tight			
1170	1180	As above		As above	Shale	light to medium grey with some interbedded fine to very fine grained, calcareous sandstone with light grey to light brown dense, hard limestone.	Tight			
1180	1190	As above		As above	Shale	Shale as above, becoming calcareous, with interbedded sandstone as above & light grey siltstone, micaceous with trace light brown, dense limestone.				
1190	1200	As above		As above	Shale	As above.				
1200	1210	Medium to dark grey-black		Fine to very fine grained	Shale	micaceous, very calcareous with medium brownish-grey, fine to very fine grained, calcareous sandstone. Some light buff to white, very fine grained, very calcareous sandstone.	Tight	Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1210	1220	Light to medium grey			Shale	very micaceous, very calcareous, silty with trace very fine grained, buff to white, very calcareous sandstone.	Tight	Mica		
1220	1230	As above		Fine to very fine grained	Shale	micromicaceous, calcareous in part with light grey, calcareous sandstone.				Reaming samples 1220-1270'.
1230	1240	As above			Shale	Shale calcareous in part, micaceous, silty with light brownish-grey, crystalline limestone.		Mica		
1240	1250	As above			Shale	As above.		Mica		
1250	1260	As above			Shale	As above.				
1260	1270	As above			Shale	As above. (Note: crystalline limestone in above sample could be from fossils observed in core).				
1270	1280	Light to medium grey			Shale	micromicaceous, silty, calcareous with some light grey, calcareous siltstone, trace of crystalline limestone.		Mica		
1280	1290	As above			Shale	As above.		Mica		
1290	1300	As above			Shale	As above with very fine grained, calcareous sandstone, limestone more abundant.	Tight	Mica		
1300	1310	As above			Shale	As above, shale has very small black, specks, may be carbonaceous material. Trace sandstone as above.		Mica		
1310	1320	As above			Shale	As above.		Mica		
1320	1330	As above			Shale	As above, silty in part.		Mica		
1330	1340	As above			Shale	micromicaceous in part, silty in part, calcareous in part, black specks, trace greyish-brown crystalline limestone.		Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1340	1350	Light to medium grey			Shale	as above.		Mica		
1350	1360	As above			Shale	As above.		Mica		
1360	1370	As above			Shale	As above.		Mica		
1370	1380	As above			Shale	As above with trace light grey, calcareous siltstone, limestone as above.		Mica		
1380	1390	Light to medium grey			Shale	micromicaceous, calcareous in part, silty in part, with light grey, calcareous siltstone, trace light greyish-brown crystalline limestone.		Mica		
1390	1400	As above			Shale	As above.		Mica		
1400	1410	As above			Shale	micromicaceous, calcareous, silty in part with limestone as above.		Mica		
1410	1420	As above			Shale	As above with black specks.		Mica	Crinoid?	
1420	1430	As above			Shale	As above.		Mica		
1430	1440	As above			Shale	As above with some light grey, calcareous siltstone.		Mica		
1440	1450	As above			Shale	As above.		Mica		
1450	1460	Light to dark grey			Shale	Shale, calcareous, silty in part, black specks.				
1460	1470	As above			Shale	As above.				
1470	1480	Light to medium grey			Shale	Shale as above.				
1480	1490	As above			Shale	As above.				

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1490	1500	Light grey			Shale	calcareous in part, silty in part, micromicaceous in part, fairly soft, fissile in part.		Mica		
1500	1510	Light to Medium grey			Shale	As above.		Mica		
1510	1520	As above			Shale	As above.		Mica		
1520	1530	As above			Shale	As above, silty in part with light grey, calcareous siltstone, trace light brown limestone.				
1530	1540	Light to dark grey			Shale	micromicaceous in part, slightly silty in part, fissile in part, slightly calcareous.		Mica Pyrite		
1540	1550	As above			Shale	As above.		Mica Pyrite		
1550	1560	As above			Shale	Shale as above.				
1560	1570	Light grey to black			Shale	Shale slightly calcareous, fissile in part, bitumenous in part, with trace dark grey fragmental limestone and fossil fragments.			Fragments	
1570	1580	Light to dark grey			Shale	Shale as above, limestone more common.		Pyrite	Fragments	
1580	1590	Light grey to light brown			Shale & Limestone	Interbedded light grey shale and light grey to dark greyish-brown, fossiliferous limestone, fragmental in part, earthy in part.			Fragments	Ramparts 1585'
1590	1600	As above			Shale & Limestone	As above.			Fragments	

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1600	1610	Light grey to brown			Shale	Limestone and shale as above.		Pyrite		
1610	1620	As above			Shale	As above.		Pyrite	Fragments	
1620	1630	As above			Shale	Limestone and shale as above.		Pyrite	Fragments	
1630	1640	As above			Limestone	Dense to microcrystalline, fragmental, earthy in part, fossil fragments abundant, with shale as above.		Pyrite	Fragments	
1640	1650	As above			Limestone	As above.		Pyrite	Fragments	
1650	1660	As above			Limestone	As above.				
1660	1670	Medium grey to greyish-brown		Dense to micro-crystalline	Limestone & Shale	interbedded medium grey shale and limestone, argillaceous in part.	Tight	Pyrite	Fragments	Reaming Samples
1670	1680	As above		As above	Limestone & Shale	As above.	Tight	Pyrite	Fragments	
1680	1690	As above		As above	Shale & Limestone	Shale as above with interbedded limestone as above.	Tight		Fragments	
1690	1700	As above		As above	Shale & Limestone	As above.	Tight		Fragments	
1700	1710	Medium grey to greyish-brown		Dense to micro-crystalline	Shale & Limestone	interbedded greyish-brown limestone and medium grey calcareous shale.	Tight		Fragments Brachiopods	
1710	1720	As above		As above	Shale & Limestone	Shale & limestone as above.	Tight	Pyrite	Fragments Brachiopods	
1720	1730	As above		As above	Shale & Limestone	As above.	Tight		Fragments Brachiopods	

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1730	1740	Medium grey to greyish-brown		Dense to micro-crystalline	Limestone & Shale	interbedded limestone as above with trace earthy limestone and medium grey calcareous shale. Fossils abundant.			Stromatoparoid?	
1740	1750	As above		As above	Limestone & Shale	Limestone as above, less shale.	Tight		Stromatoparoid?	
1750	1760	As above		As above	Limestone & Shale	Limestone as above with shale as above.	Tight		Crinoids Brachiopods	
1760	1770	Medium grey to light buff		As above	Limestone & Shale	As above, earthy in part.	Tight		Crinoids Brachiopods	
1770	1780	Light to medium grey		As above	Shale	light to medium grey, calcareous, silty in part with interbedded limestone as above.	Tight	Pyrite	Ostracods Crinoids	
1780	1790	Light buff to medium greyish-brown		As above	Limestone	light buff to medium greyish-brown, argillaceous in part, carbonaceous in part, some clear calcite crystals with shale as above.	Tight	Pyrite	Ostracods Crinoids	
1790	1800	As above		As above	Limestone	As above.	Tight	Pyrite	Ostracods Brachiopods	
1800	1810	As above		As above	Limestone	As above, earthy in part.	Tight	Pyrite	Fragments	
1810	1820	Light grey to medium greyish-brown		As above	Limestone	interbedded limestone as above and light to medium grey, calcareous shale.		Pyrite	Fragments	

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1820	1830	Light grey to light buff to brown		Dense to micro-crystalline	Limestone & Shale	interbedded light grey, calcareous shale and light buff to brown limestone, argillaceous in part, earthy in part, calcite crystals.	Tight	Calcite	Fragments	
1830	1840	Light to medium grey		Dense	Shale & Limestone	Shale as above with interbedded light to medium grey, dense, argillaceous limestone, some buff limestone as above.	Tight	Calcite	Fragments	
1840	1850	As above		Dense	Shale & Limestone	As above.	Tight		Fragments	
1850	1860	As above		Dense	Shale & Limestone	As above.	Tight		Fragments	
1860	1870	Light to medium grey to light brown		Dense to micro-crystalline	Shale & Limestone	interbedded limestone and shale as above.	Tight		Fragments	
1870	1880	Light buff to light brown		As above	Limestone	Limestone, earthy in part, argillaceous in part, with interbedded light to medium grey shale.	Tight	Calcite	Fragments	
1880	1890	Light buff to medium greyish-brown		Dense to micro-crystalline	Limestone	fairly hard, earthy in part with interbedded shale as above.	Tight		Fragments	
1890	1900	Light to medium to light brown		As above	Shale & Limestone	Limestone as above and light to medium grey shale.	Tight			Reaming Samples seem to be abundant. shale cavings. See Core No.6 descriptions.
1900	1910	As above		As above	Shale & Limestone	As above	Tight			
1910	1920	As above		As above	Shale & Limestone	As above.	Tight			
1920	1930	As above		As above	Shale & Limestone	Limestone as above.	Tight			
1930	1940	As above		As above	Shale & Limestone	As above.	Tight			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
1940	1950	Light buff to light brown		Dense	Limestone	Dense, almost lithographic in part, with clear calcite crystals, microcrystalline in part, some dark brownish-black micro-crystalline limestone, bituminous in part. Trace micro vugs completely in-filled with secondary calcite. Also light to medium grey, slightly calcareous shale.	Tight	Calcite		
1950	1960	As above		Dense	Limestone	As above.	Tight	Calcite		
1960	1970	Light buff to dark greyish-brown		Lithographic to micro-crystalline	Limestone	Limestone as above with medium to dark grey shale.	Tight	Calcite		
1970	1980	Light buff to dark greyish-brown		Dense to micro-crystalline	Limestone	fairly hard, trace calcite filled fractures. Light buff limestone is dense to lithographic and dark greyish-brown limestone is micro-crystalline with light to medium grey shale.	Tight	Calcite		
1980	1990	As above		As above	Limestone	As above.	Tight	Calcite		
1990	2000	As above		As above	Limestone	Limestone as above, some medium grey, lithographic limestone, argillaceous in part.	Tight	Calcite		
2000	2010	As above		As above	Limestone	Limestone as above, micro granular in part.	Tight	Calcite		
2010	2020	As above		As above	Limestone	Limestone and shale as above.	Tight	Calcite		
2020	2030	As above		As above	Limestone	Limestone as above with shale as above shale believed to be cavings.				
2030	2040	As above		Dense	Limestone	Hard, lithographic in part with shale cavings.	Tight		Fragments	
2040	2050	As above		Dense	Limestone	Limestone as above, bituminous in part.	Tight			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2050	2060	Light buff to brown		Dense	Limestone	fairly hard, clean limestone, few calcite filled vugs.	Tight	Calcite		
2060	2070	Light buff to dark greyish-brown		Dense to micro-crystalline	Limestone	light buff limestone is dense to lithographic, dark greyish-brown limestone is microcrystalline, slightly argillaceous, slightly bituminous.	Tight	Trace Pyrite		
2070	2080	Light buff to dark greyish-brown		As above	Limestone	As above.	Tight			
2080	2090	As above		As above	Limestone	As above.	Tight			
2090	2100	As above		Dense	Limestone	hard, micro-granular in part, slightly argillaceous in part, bituminous in part, with shale light to medium grey cavings?	Tight			
2100	2110	As above		Dense	Limestone	As above with light to medium grey shale. Shale is believed to be mostly cavings.	Tight			
2110	2120	As above		Dense	Limestone	As above.	Tight.			
2120	2130	As above		Dense	Limestone	As above.	Tight			
2130	2140	Light grey to light buff to dark greyish-brown		Dense	Limestone	Limestone and shale as above.	Tight			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2140	2150	Light buff to medium brown		Dense to micro-crystalline	Limestone	fairly hard, light to medium grey shale believed to be cavings. See Core #7 descriptions.	Tight			Reaming Samples 2145-2195
2150	2160	As above		As above	Limestone	As above.				
2160	2170	As above		As above	Limestone	Limestone as above.	Tight			
2170	2180	As above		As above	Limestone	As above.	Tight			
2180	2190	As above		As above	Limestone	As above.	Tight			
2190	2200	Light to dark brown to black		As above	Limestone	hard, bituminous in part, calcite filled fractures. Abundant light to dark grey non-calcareous shale cavings?	Tight	Calcite		
2200	2210	As above		As above	Limestone	As above lithographic in part with calcite filled microvugs.	Tight	Calcite		
2210	2220	As above		As above	Limestone	Limestone as above.	Tight	Trace Pyrite Calcite		
2220	2230	As above		As above	Limestone	As above.	Tight	Calcite		
2230	2240	Light to medium greyish-brown		As above	Limestone	As above, bituminous in part with light to medium grey shale.	Tight	Trace pyrite		
2240	2250	Light buff to dark brown		Dense to micro-crystalline	Limestone	hard, some black bituminous limestone, some light buff, lithographic limestone with abundant light to medium grey shale.	Tight			
2250	2260	Light buff to dark brown		As above	Limestone	As above, light buff limestone, more common.				

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2260	2270	Light buff to dark brown		Dense to micro-crystalline	Limestone	As above, very slight trace pinpoint porosity.	Trace	Trace Pyrite		
2270	2280	Light to dark brown to black		Dense to micro-crystalline	Limestone	As above, darker in color.	Tight			
2280	2290	As above		As above	Limestone	As above.	Tight			
2290	2300	As above		As above	Limestone	As above, with trace micro-granular limestone. Trace calcite filled fractures and vugs.	Tight	Calcite		
2300	2310	As above		As above	Limestone	bituminous in part, hard with light to medium grey shale cavings.	Tight			
2310	2320	As above		As above	Limestone	as above, micro-granular in part, earthy in part with shale as above.	Tight			
2320	2330	As above		As above	Limestone	As above with calcite filled vugs or fractures.	Tight	Calcite		
2330	2340	Light buff to light brown		As above	Limestone	As above with bituminous partings.	Tight	Trace Pyrite		
2340	2350	Light buff to dark greyish-brown		As above	Limestone	As above.	Tight	Trace Pyrite		
2350	2360	As above		As above	Limestone	As above.	Tight			
2360	2370	Light buff to medium greyish-brown		Dense to micro-granular	Limestone	interbedded light buff and medium greyish-brown, trace micro vugs infilled with calcite.	Tight	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2370	2380	Light buff to medium brown		Dense to micro-crystalline	Limestone	hard with bituminous partings.	Trace pinpoint Porosity	Calcite		
2380	2390	Light buff to dark greyish-brown		As above	Limestone	dark greyish-brown limestone is argillaceous in part, bituminous in part with light buff limestone as above, earthy in part.	Tight	Calcite Pyrite		
2390	2400	As above		As above	Limestone	As above.	Tight	Calcite Pyrite	Brachiopod Fragments	
2400	2410	Light buff to medium greyish-brown		As above	Limestone	As above with trace light grey, slightly calcareous, pyritic shale.	Tight	Pyrite		
2410	2420	As above		Dense	Limestone	hard, light buff limestone is lithographic in part with black bituminous partings. Abundant light to medium grey shale cavings?	Tight			Reaming Samples 2420-2450. See Core No. 8.
2420	2430	As above		As above	Limestone	as above with light grey, dense to lithographic dolomite and shale as above.	Tight	Pyrite		
2430	2440	As above		Dense to micro-crystalline	Limestone & Dolomite	Limestone as above with light brown, sugary dolomite with fair micro vugs and intercrystalline porosity. Dolomite from 2' zone observed in Core No. 8.	Vugular inter-crystalline porosity	Calcite		
2440	2450	As above		As above	Limestone & Dolomite	As above.	A_s above	Calcite		
2450	2460	As above		As above	Limestone & Dolomite	Limestone and dolomite as above with light grey pyritic, dolomitic shale, fairly soft.	Tight			
2460	2470	As above		As above	Limestone	Limestone as above with trace dolomite as above.	Tight			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2470	2480	Light grey to light buff to brown		Dense to micro-crystalline	Limestone & Dolomite	Limestone as above with light grey, dense to lithographic dolomite, argillaceous, pyritic in part, with shale cavings.	Tight	Pyrite		
2480	2490	Light buff to brown to black		Micro-crystalline	Limestone	hard with dark grey to black, bituminous limestone with trace light grey lithographic dolomite, light buff limestone is earthy in part.	Tight	Pyrite		
2490	2500	As above		As above	Limestone	Limestone as above, dolomitic in part, grading to light brown, sugary dolomite in part, argillaceous in part.	Tight			
2500	2510	Light buff to light brown		Dense	Limestone	hard, slightly argillaceous in part, lithographic in part, trace pyrite with trace light grey, dense limestone with shale, bituminous partings.	Tight	Pyrite		
2510	2520	As above		Dense	Limestone	Limestone as above with trace light grey, microgranular dolomitic limestone.	Tight	Pyrite		
2520	2530	As above		Dense to Micro-crystalline	Limestone	Limestone as above with light brown, microcrystalline dolomite, sugary in part, trace intercrystalline porosity.	Trace intercrystalline Porosity			
2530	2540	As above		As above	Limestone & Dolomite	Limestone as above with interbedded dolomite as above, fair intercrystalline & micro-vugular porosity, sugary in part, petroliferous odour and slight fluorescence.	Fair			
2540	2550	Light grey to light brown		Dense to micro-crystalline	Limestone & Dolomite	interbedded limestone and dolomite with some light grey, slightly calcareous shale. Trace intercrystalline porosity in part.	Trace			Reaming Samples 2540-2560

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2550	2560	Light grey to light brown		Dense to micro-crystalline	Limestone & Dolomite	as above with light grey, pyritic, dolomitic shale.	Tight	Pyrite		
2560	2570	Light buff		As above	Limestone	hard, clean limestone, pyritic in part, with trace light brown, microcrystalline dolomite, trace light grey, slightly calcareous shale.	Tight	Pyrite		
2570	2580	As above		As above	Limestone	Limestone as above, more shale as above, trace dark greyish-black, bituminous limestone.	Tight	Pyrite		
2580	2590	As above		As above	Limestone	Limestone as above with fair micro-vugular porosity in part. 1-3' drilling break. Slightly bituminous in part, pyritic, some light grey, slightly argillaceous limestone, trace light grey shale.	Fair	Pyrite		
2590	2600	Light buff to medium greyish-brown		As above	Limestone	Limestone as above, darker in color, very slight trace porosity as above, light grey, slightly calcareous shale.	Trace	Pyrite		
2600	2610	As above		As above	Limestone	As above.	Trace	Pyrite		
2610	2620	Light buff to light brown		As above	Limestone	Limestone as above, bituminous in part, with fair micro-vugular porosity in part. Shale as above, no cut, stain, odour or fluorescence.	Fair			
2620	2630	Light buff to medium brown		Dense to micro-	Limestone	interbedded light buff, dense to micro-crystalline limestone and light to medium brown, dense to microcrystalline dolomite, trace dark grey, bituminous, slightly argillaceous limestone, light to medium grey shale. Very slight trace micro-vugular porosity.	Very slight trace	Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2630	2640	Light buff to dark brown		Dense to micro-crystalline	Limestone	Limestone as above with trace dolomite as above, shale as above.	Tight	Pyrite		
2640	2650	As above		As above	Limestone	As above.	Tight			
2650	2660	As above		As above	Limestone	Limestone as above with bituminous partings, light grey, slightly calcareous shale.	Tight			
2660	2670	Light buff to medium brown		As above	Limestone	Limestone as above with light to medium brown, sugary dolomite, fair to good intercrystalline and micro vugular porosity with light grey shale.	Fair			
2670	2676	As above		As above	Limestone	As above.	Fair			
2676	2680	As above		As above	Limestone	slightly argillaceous in part, black, bituminous limestone as above with light to medium grey, slightly calcareous shale.	Tight			
2680	2690	Light to medium brown		As above	Dolomite & Limestone	light to medium brown, slightly argillaceous, dolomitic, sugary in part, fair intercrystalline porosity, with limestone as above, slightly fluorescence.	Fair			
2690	2700	Light to dark brown		Dense to micro-granular	Dolomite & Limestone	interbedded light to dark brown, sugary dolomite and light to dark brown, dense to micro-granular limestone, slightly argillaceous in part with fair to good intergranular and intercrystalline porosity. 7-8' drilling break.	Fair to Good	Trace Pyrite		
2700	2710	As above		As above	Dolomite & Limestone	Dolomite and limestone as above, slight trace porosity as above, free calcite crystals, light to medium grey shale.	Trace			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2710	2720	Light to dark brown		Dense to micro-crystalline	Limestone	mostly medium to dark brown, micro-crystalline limestone, calcite filled fractures. Trace intercrystalline porosity and light to medium brown, dense to microcrystalline dolomite, argillaceous in part.	Slight Trace	Calcite		Reaming Samples 2710-2742
2720	2730	As above		As above	Limestone & Dolomite	As above with light brown, dolomite more common.	Slight Trace	Calcite		
2730	2740	As above		As above	Limestone & Dolomite	As above.	Slight Trace	Calcite		
2740	2750	Light buff to medium brown		As above	Limestone & Dolomite	Interbedded light buff, hard, dense Limestone and dolomite with medium brown microcrystalline limestone and dolomite, slightly argillaceous, calcite filled fractures.	Tight	Calcite		
2750	2760	As above		As above	Limestone & Dolomite	As above, dense to microcrystalline, more common, some intercrystalline porosity.	Poor to Fair	Calcite		
2760	2770	As above		Micro-crystalline	Limestone & Dolomite	Interbedded argillaceous limestone and dolomite, trace intercrystalline porosity, no cut, stain, odour or fluorescence, calcite filled fractures, dense in part.	Trace	Calcite		
2770	2780	Medium brown		Micro-crystalline	Dolomite & Limestone	Interbedded medium brown, micro-crystalline, argillaceous in part dolomite and limestone with fair intercrystalline porosity in part with light grey, slightly calcareous shale. Calcite filled fractures. No cut, stain, odour or fluorescence.	Fair	Calcite		
2780	2790	Light to medium brown		Micro-crystalline	Dolomite & Limestone	Dolomite and limestone as above. 1-3' drilling break. No cut, stain, odour or fluorescence.	Fair	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2790	2800	Medium to dark brown		Micro-crystalline	Dolomite	hard, argillaceous, silty in part, abundant calcite filled fractures, trace intercrystalline porosity, no cut, stain, odour or fluorescence with interbedded light brown, dense to microcrystalline limestone.	Trace	Calcite		
2800	2810	As above		As above	Dolomite	Dolomite and limestone as above, free calcite common, no cut, stain, odour or fluorescence.	Trace	Calcite		
2810	2820	As above		As above	Limestone & Dolomite	Interbedded limestone and dolomite as above, no cut, stain, odour or fluorescence. Light grey, micromicaceous, calcareous shale common.	Trace	Calcite		
2820	2830	As above		As above	Limestone & Dolomite	Limestone as above with interbedded dolomite as above, light to medium grey, shale common (cavings); no cut, stain, odour or fluorescence, silty in part.	Trace	Calcite		
2830	2840	As above		As above	Dolomite	Dolomite as above with some dense to microcrystalline limestone, calcite filled fractures, fair intercrystalline porosity in part, no cut, stain, odour or fluorescence.	Fair	Calcite		
2840	2850	As above		As above	Dolomite	As above, argillaceous in part.	Fair	Calcite		
2850	2860	As above		As above	Dolomite	Dolomite with limestone as above, light greenish-grey, pyritic, dolomitic shale is common, trace intercrystalline porosity no cut, stain, odour or fluorescence.	Trace	Calcite Pyrite		
2860	2870	Light to dark brown		Micro-crystalline to micro-granular	Dolomite	argillaceous, silty, sugary in part, calcite filled fractures, trace light brown limestone, intercrystalline porosity in part. No cut, stain, odour or fluorescence.	Trace	Calcite Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2870	2880	Light to dark brown		Micro-crystalline to micro-granular	Dolomite	As above, limestone more common, trace inter-crystalline porosity; no cut, stain, odour or fluorescence.	Trace	Calcite		
2880	2890	As above		As above	Dolomite & Limestone	Interbedded dolomite and limestone as above, argillaceous, silty in part, slight trace intercrystalline porosity. No cut, stain, odour or fluorescence, abundant calcite.	Trace	Calcite		
2890	2900	Light buff to light brown		As above	Dolomite & Limestone	argillaceous, silty in part, sugary in part with light brown, microcrystalline limestone, trace intercrystalline porosity no cut, stain, odour or fluorescence with dark brown limestone and dolomite as above.	Trace	Calcite		
2900	2910	As above		As above	Dolomite & Limestone	As above.	Trace	Calcite		
2910	2920	Light buff to dark brown		As above	Dolomite & Limestone	Dolomite as above with limestone as above, bituminous partings, trace intercrystalline porosity; no cut, stain, odour or fluorescence.	Trace	Calcite		
2920	2930	Light buff		Micro-crystalline	Dolomite	slightly argillaceous in part, fair intercrystalline porosity in part; no cut, stain, odour or fluorescence with light brown, microcrystalline limestone.	Fair	Calcite		
2930	2940	Light to medium brown		Dense to micro-crystalline	Dolomite	slightly argillaceous in part, trace intercrystalline and micro vugular porosity; no cut, stain, odour or fluorescence with interbedded medium to dark brown dense dolomite and limestone.	Trace	Calcite		
2940	2950	As above		As above	Dolomite	Dolomite and limestone as above.	Trace	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
2950	2960	Light to dark brown		Micro-crystalline to micro-granular	Limestone & Dolomite	Light brown, micro-granular limestone & dolomite and medium to dark brown dolomite and limestone, trace inter-crystalline porosity; no cut, stain, odour or fluorescence.	Trace	Calcite Trace Pyrite		Reaming Samples 2950-2980 (See Core 11)
2960	2970	As above		Micro-crystalline	Dolomite	medium to dark brown, microcrystalline dolomite with light brown, micro-crystalline dolomite and limestone, trace intercrystalline porosity; no cut, stain, odour or fluorescence.	Trace	Calcite		
2970	2980	As above		As above	Dolomite	As above.	Trace	Calcite		
2980	2990	Light buff to dark brown		As above	Dolomite & Limestone	medium to dark brown, microcrystalline dolomite and limestone and light buff, microcrystalline to micro-granular limestone and dolomite, earthy in part, slightly argillaceous in part, trace intercrystalline and micro-vugular porosity, calcite crystals; no cut, stain, odour or fluorescence.	Trace	Calcite		
2990	3000	Light buff		Dense to micro-crystalline	Dolomite	light buff, earthy dolomite, with dense light buff to light brown limestone, sugary dolomite in part, fair inter-crystalline porosity in part; no cut, stain, odour or fluorescence.	Fair			
3000	3010	Light buff to light greyish-brown		Dense to micro-crystalline	Limestone & Dolomite	light buff to light brown, micro-crystalline, dolomite sugary in part, with interbedded dense, micro-crystalline light greyish-brown limestone, sugary dolomite has fair intercrystalline porosity in part; no cut, stain, odour or fluorescence.	Fair	Calcite		
3010	3020	As above		As above	Limestone & Dolomite	As above.	Fair			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3020	3030	Light buff to medium greyish-brown		Dense to micro-crystalline	Limestone & Dolomite	As above, limestone less common.	Tight			
3030	3040	Light buff to light brown		As above	Limestone & Dolomite	Dolomite and limestone as above, fair intercrystalline porosity; no cut, stain, odour or fluorescence.	Fair			
3040	3050	As above		As above	Dolomite	Dolomite as above with fair, inter-crystalline and micro-vugular porosity in part with limestone as above; no cut, stain, odour or fluorescence.	Fair			
3050	3060	As above		Micro-crystalline to micro-granular	Dolomite	sugary in part, fair to good inter-crystalline and inter-granular porosity with some dense light brown dolomite & limestone; no cut, stain, odour or fluorescence.	Fair to Good			
3060	3070	As above		As above	Dolomite	As above.	Fair to Good			
3070	3080	Light buff to medium brown		Dense to micro-crystalline	Dolomite & Limestone	slightly argillaceous in part, calcite filled fractures, slight trace inter-crystalline porosity; no cut, stain, odour or fluorescence.	Trace			
3080	3090	Light to dark brown		As above	Limestone & Dolomite	light to dark brown limestone and light brown dolomite, calcite filled fractures.	Tight	Calcite	Brachiopod Fragments	
3090	3100	Very light buff to light brown		Dense	Dolomite	very light buff, dense dolomite with light to dark brown limestone as above, calcite filled fractures and micro vugs.	Tight			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3100	3110	Light buff to medium brown		Dense to micro-crystalline	Dolomite & Limestone	Dolomite as above, microcrystalline in part, sugary in part, trace fair intercrystalline porosity with interbedded light to medium brown, dense to microcrystalline limestone. No cut, stain odour or fluorescence.	Trace			
3110	3120	As above		Micro-crystalline	Dolomite	As above, sugary in part, fair intercrystalline porosity in part; no cut, stain, odour or fluorescence with interbedded limestone as above.	Fair	Calcite		
3120	3130	Light to medium brown		As above	Dolomite	As above, fair to good intercrystalline porosity; no cut, stain, odour or fluorescence with limestone as above.	Fair to good	Calcite		
3130	3140	As above		As above	Dolomite	Dolomite and limestone as above.	Fair			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3140	3150	Light to medium brown		Micro-crystalline	Dolomite	sugary in part, limy in part with light to medium brown, microcrystalline limestone, fair to good intercrystalline and micro vugular porosity, no cut, stain, odour or fluorescence.	Fair to good			Reaming samples See Core #12 3140-3164
3150	3160	Light to dark brown		Dense to micro-crystalline	Dolomite	Dolomite and limestone as above, fair intercrystalline porosity in part, no cut, stain, odour or fluorescence.	Fair	Calcite		
3160	3170	As above		Micro-crystalline	Dolomite	sugary in part, limy in part, fair intercrystalline porosity, no cut, stain, odour or fluorescence.	Fair	Calcite		
3170	3180	As above		As above	Dolomite	as above.	Fair	Calcite		
3180	3190	Light to medium brown		As above	Dolomite	as above.	Fair	Calcite		
3190	3200	As above		As above	Dolomite	as above.	Fair	Calcite		
3200	3210	As above		As above	Dolomite	as above, with trace light brown, dense to microcrystalline limestone, calcite filled fractures.	Fair	Calcite		
3210	3220	As above		As above	Dolomite	as above.	Fair	Calcite		
3220	3230	As above		Dense to micro crystalline	Dolomite	as above with light brown dense limestone.	Fair	Calcite		
3230	3240	As above		As above	Dolomite	as above and limestone as above.	Fair	Calcite		
3240	3250	Medium to dark greyish-brown		As above	Dolomite	mostly medium to dark greyish-brown dolomite, slightly silty in part, with trace light to medium brown limestone, trace light grey, slightly calcareous shale.	Tight	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3250	3260	Light to medium greyish-brown		Dense to micro-crystalline	Dolomite	limy in part, with light brown, earthy limestone, very slightly silty in part, very slightly argillaceous in part, calcite filled fracture, slight trace intercrystalline porosity.	Trace	Calcite		
3260	3270	As above		As above	Dolomite	as above, more microcrystalline, fair intercrystalline porosity in part, no cut, stain, odour or fluorescence.	Fair	Calcite		
3270	3280	Very light buff to medium brown		Dense to micro-crystalline	Dolomite	as above with very light buff, earthy limestone, fair intercrystalline porosity in part, no cut, stain, odour or fluor-escence.	Fair	Calcite		
3280	3290	Very light buff to light grey		Dense	Limestone	earthy, very calcareous, with dolomite as above, trace slickensides, trace pyrite, trace quartz, no cut, stain, odour or fluorescence.	Tight	Pyrite Quartz		
3290	3300	Light grey to light buff		Dense to micro-granular	Dolomite	mostly light grey, very argillaceous, slightly silty in part, abundant pyrite disseminated throughout, limy in part. Dolomite as above.		Pyrite		
3300	3310	As above		As above	Dolomite	as above with light buff, dense, argillaceous, slightly silty, pyritic dolomite.		Pyrite		
3310	3320	Light grey		As above	Dolomite	as above.		Pyrite		
3320	3330	Light to medium grey to light brown		Dense to micro-crystalline	Dolomite	mostly light to medium grey, argillaceous, dense dolomite with light brown, micro-crystalline dolomite, abundant light to medium grey shale cavings.	Tight	Pyrite		Reaming samples 3319-3349 Core 13

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3330	3340	light buff to light brown to light greyish-green		Dense to litho-graphic	Limestone & Shale	mostly lithographic, light buff to light brown limestone, with light greyish-green, non-calcareous, waxy pyritic shale. (See core 13 descriptions).	Tight	Pyrite		Detrital Zone 3330'
3340	3350	As above		As above	Limestone & Shale	Limestone and shale as above.	Tight	Pyrite		
3350	3360	As above		As above	Limestone & Shale	Limestone and shale as above with light grey, micro-granular, earthy limestone.	Tight	Pyrite		
3360	3370	As above		As above	As above	As above.	Tight	Pyrite		
3370	3380	Light buff to light grey		As above	As above	Limestone as above with decreasing amounts of shale as above.	Tight	Pyrite		
3380	3390	As above		As above	Limestone	mostly light buff, dense to lithographic limestone with light grey, dense limestone, very little light greenish-grey shale.	Tight	Pyrite		
3390	3400	As above		As above	Limestone & Shale	Limestone as above, more greenish-grey shale, some light grey to light brown mottled limestone could be a breccia.	Tight	Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3400	3410	Light to medium grey		Dense	Dolomite & limestone	very pyritic, pyrite disseminated throughout, slightly silty in part, argillaceous in part, with light buff limestone as above.	Tight	Pyrite		
3410	3420	Light buff to light grey to light green		Dense to lithographic	Limestone & Shale	mostly light buff to light grey limestone with light greyish-green, pyritic, non-calcareous shale, some dolomite as above, mottled in part.	Tight	Pyrite		
3420	3430	Light buff to light green		As above	Limestone & Shale	Limestone and shale as above.	Tight	Pyrite		
3430	3440	Light buff to light grey to light greenish-grey		As above	Limestone & Shale	Limestone, light buff to light greenish-grey, mottled in part, with light grey pyritic shale.	Tight	Pyrite		
3440	3450	As above		As above	Limestone	light buff to light brown, dense to lithographic. Limestone with light grey, dense slightly argillaceous limestone, oolitic in part, pyritic with light greenish-grey pyritic, slightly calcareous shale.	Tight	Pyrite		
3450	3460	As above		As above	Limestone	As above.	Tight	Pyrite		
3460	3470	As above		As above	Limestone	Limestone as above with light green to light grey, slightly calcareous, pyritic, shale and light grey, micro-granular dolomite.	Tight	Pyrite		
3470	3480	Light buff to light grey		As above	Dolomite & Limestone	light buff, dense to lithographic limestone with light grey dense, slightly argillaceous dolomite, trace light greenish-grey shale as above.	Tight	Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3480	3490	Light buff to light greyish-brown		Dense	Dolomite	fairly hard, slightly argillaceous, slightly silty in part, with trace shale as above.	Tight			Ord.-Silurian 3480
3490	3500	As above		Dense to micro-granular	Dolomite	Dolomite as above.	Tight			
3500	3510	As above		As above	Dolomite	As above.	Tight			
3510	3520	Light grey		As above	Dolomite	As above, mostly light grey with light buff dolomite as above.	Tight			
3520	3530	As above		As above	Dolomite	As above with milky white chert, trace pyrite.	Tight	Chert Pyrite Calcite		
3530	3540	Light creamy to light grey		As above	Dolomite	hard, siliceous in part, trace calcite filled fractures.	Tight	Calcite		
3540	3550	Light to Medium grey		Dense	Dolomite	hard, slightly argillaceous in part, siliceous in part with light to medium grey shale cavings.	Tight			Reaming samples 3545-3593 Core 14
3550	3560	As above		As above	Dolomite	As above, microcrystalline in part, trace pyrite.	Tight	Pyrite Calcite		
3560	3570	As above		As above	Dolomite	Dolomite as above, light brownish-grey in part, calcite and quartz crystals.	Tight	Pyrite Calcite		
3570	3580	As above		As above	Dolomite	As above.	Tight			
3580	3590	As above		Dense to micro-crystalline	Dolomite	as above with trace dolomite crystals, limy in part, trace quartz crystals, trace intercrystalline porosity, no cut stain, odour or fluorescence.	Trace	Quartz		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3590	3600	Light to medium grey		Dense to micro-crystalline	Dolomite	as above, siliceous in part, slightly argillaceous in part, calcite filled fractures, light to medium brownish-grey, in part.	Tight	Calcite Pyrite		
3600	3610	Light brownish-grey to medium grey		Dense	Dolomite	as above, with milky chert.	Tight	Calcite Chert		
3610	3620	Light to medium brownish-grey		Dense to micro-crystalline	Dolomite	hard, slightly argillaceous in part, trace chert, trace pyrite, calcite filled fractures, slightly limy in part.	Tight	Calcite Chert Pyrite		
3620	3630	As above		As above	Dolomite	as above with trace light to medium greenish-grey dolomite, pyritic shale.	Tight	Calcite Pyrite		
3630	3640	Light brownish-grey to medium grey		Dense to micro-crystalline	Dolomite	hard, slightly argillaceous in part, pyritic, calcite filled fractures.	Tight	Calcite Pyrite		
3640	3650	Light to medium brownish-grey		As above	Dolomite	as above, trace milky chert.	Tight	Calcite Pyrite Chert		
3650	3660	Light buff to medium grey		Dense	Dolomite	hard, siliceous, slightly argillaceous in part, mottled light brown and milky chert and dolomite in part.	Tight	Calcite Chert		
3660	3670	Light brownish-grey		Dense to micro-granular	Dolomite	As above.	Tight	Calcite Chert		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3670	3680	Light to medium brownish-grey		Dense to micro-granular	Dolomite	as above, slightly limy in part, trace chert.	Tight	Calcite Chert		
3680	3690	As above		Dense to micro-crystalline	Dolomite	as above, mostly light grey, dense with light buff to light brown, micro-crystalline dolomite, light brown dolomite has trace intercrystalline porosity, no cut, stain, odour or fluorescence.	Slight trace	Calcite		
3690	3700	As above		As above	Dolomite	as above.	Tight	Calcite Pyrite		
3700	3710	As above		As above	Dolomite	as above, very slight trace inter-crystalline porosity, no cut, stain, odour or fluorescence.	Slight trace	Calcite Pyrite		
3710	3720	Light grey to light brownish-grey		As above	Dolomite	as above with slight trace light grey dolomitic shale.	Tight	Calcite Pyrite.		
3720	3730	Light to medium brownish-grey		Dense to micro-crystalline	Dolomite	hard, slightly argillaceous in part, calcite filled fractures, trace chert.	Tight	Calcite Pyrite Chert		
3730	3740	As above		As above to micro-granular	Dolomite	as above.	Tight	Calcite Pyrite Chert		
3740	3750	As above		Dense to micro-granular	Dolomite	mostly light grey, argillaceous, micro-granular dolomite with dense and micro crystalline dolomite as above, trace pyrite.	Tight	Calcite Pyrite		
3750	3760	As above		As above	Dolomite	as above.	Tight	Calcite Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3760	3770	Light brown to medium brownish-grey		Dense to micro-crystalline	Dolomite	as above with trace light grey dolomite crystals, silty in part.	Tight	Calcite Pyrite Chert		
3770	3780	Medium to dark brownish-grey		Dense to micro-granular	Dolomite	very argillaceous, very silty, pyritic, with dolomite as above and light greenish-grey dolomitic shale, calcite filled fractures.	Tight	Pyrite Calcite		
3780	3790	Light to medium brownish-grey		Dense to micro-crystalline	Dolomite	mostly dense to micro-granular, light to medium brownish-grey dolomite, slightly argillaceous in part, with dark brown dolomite as above and light micro crystalline limy dolomite, trace light greenish-grey dolomitic, pyritic shale.	Tight	Pyrite Calcite		
3790	3800	Light grey to light brown to dark greyish-brown		Dense to micro-granular to micro-crystalline	Dolomite	mostly light brownish-grey, dense dolomite with dark greyish-brown, argillaceous, silty dolomite, grading to dolomitic siltstone in part with light grey, crystalline dolomite, very slight trace intercrystalline porosity, no cut, stain, odour or fluorescence.	Slight trace	Calcite		
3800	3810	Light grey to light greyish-brown		Dense to micro-granular	Dolomite	slightly argillaceous in part, slightly silty in part, trace pyrite, calcite filled fractures.	Tight	Calcite Pyrite		
3810	3820	As above		As above	Dolomite	as above with slight trace light greenish-grey dolomitic, pyritic shale.	Tight	Calcite Pyrite		
3820	3830	Light brown to dark greyish-brown		As above	Dolomite	interbedded light brown, dense dolomite and medium to dark greyish-brown, dense to micro granular, very argillaceous very silty dolomite with light greenish-grey and light grey shale.	Tight	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3830	3840	Light grey to light buff		Dense to micro-granular	Dolomite	mostly light grey, microgranular dolomite, slightly limy in part, with dense, light buff dolomite with dark greyish-brown dolomite as above.	Tight	Calcite Pyrite		
3840	3850	As above		As above	Dolomite	as above.				
3850	3860	Light grey to light buff to dark greyish-brown		Dense to micro-crystalline	Dolomite	medium to dark greyish-brown, micro-granular to microcrystalline, argillaceous, silty dolomitic with light grey to buff dolomite as above, calcite filled fractures.	Tight	Calcite		
3860	3870	Light grey to buff to greyish-brown		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff, dense to microcrystalline, silty, calcareous, slightly argillaceous, slightly pyritic in part, with occasional fragment showing fractures filled by calcite. Minor limestone, light grey, micro granular to dense, sugary, chalky texture, tight.	Trace of poor pinpoint porosity	Pyrite Calcite		
3870	3880	Medium grey to buff to greyish-brown		Dense to micro-granular to micro-crystalline	Dolomite	Dolomite, medium grey to brown to buff, dense to microcrystalline, micro-granular in part, silty, calcareous, slightly argillaceous, slightly pyritic in part, with minor limestone, white, fine to medium crystalline, tight. Trace of shale, greenish-grey, fissile, slightly silty, micaceous, carbonaceous.	Tight	Calcite Pyrite Biotite		
3880	3890	Medium grey to brownish-grey		Dense to micro-granular to micro-crystalline	Dolomite	Dolomite, medium grey to brownish-grey, dense to microcrystalline, microgranular in part, silty, sandy in part, calcareous slightly argillaceous, slightly pyritic in part with occasional fragment showing thin calcite veinlets, minor limestone, white, fine to medium crystalline, chalky in part, tight, trace shale as above.	Tight	Calcite Pyrite Biotite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3890	3900	Medium grey to brownish grey to light grey		Dense to finely crystalline	Dolomite	Dolomite, medium grey to brownish-grey to light grey, dense to finely crystalline, microgranular in part, silty, calcareous, slightly argilaceous, slightly pyritic in part, with occasional vug in part filled by calcite crystals, no cut, stain, odour or fluorescence. Occasional fractures filled by calcite. Minor limestone white, finely crystalline to chalky, tight, trace of shale as above.	Trace of poor vugular porosity	Calcite Pyrite Biotite		
3900	3910	Light to medium grey to brownish grey		Dense to finely crystalline	Dolomite	Dolomite, light to medium grey to brownish-grey, dense to finely crystalline, micro-granular in part, silty, calcareous, pyritic in small part, with occasional vugs. Minor chalky, white limestone.	Tight	Calcite Pyrite		
3910	3920	Light to medium grey to brownish-grey		Dense to finely crystalline	Dolomite	Dolomite, light to medium grey to brownish-grey, dense to finely crystalline, silty, calcareous, slightly argillaceous, pyritic in small part, tight, with limestone, white, medium crystalline to dense, chalky in part, tight. Minor shale, greenish-grey, silty, micaceous, fissile, slightly calcareous, slightly pyritic.	Tight	Calcite Biotite Pyrite		
3920	3930	Light to medium grey to brownish-grey		Dense to micro-granular to micro-crystalline	Dolomite	Dolomite, light to medium grey to brownish-grey, dense to micro-granular to microcrystalline, medium crystalline, in small part, silty, calcareous, slightly argilaceous, pyritic in small part, tight with limestone, white, chalky to finely crystalline, tight, trace of shale as above.	Tight	Calcite Biotite Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3930	3940	Light to medium grey to brownish grey		Dense to micro-granular to micro-crystalline	Dolomite	Dolomite, light to medium grey to brownish-grey, dense to micro-granular to microcrystalline, silty, calcareous, slightly argillaceous, pyritic in small part, tight with limestone, white, dense to finely crystalline, chalky in part, tight, trace of shale as above.	Tight	Calcite Biotite Pyrite		
3940	3950	Light to medium grey to brownish-grey		Micro-granular to dense to microcrystalline	Dolomite to	Dolomite, light to medium grey to brownish-grey, microgranular to micro crystalline, silty, calcareous, slightly argillaceous, pyritic in small part, tight, with limestone white, dense, chalky, minor shale, greenish-grey, silty, micaceous, fissile, dolomitic, slightly pyritic.	Tight	Calcite Biotite Pyrite		
3950	3960	Light to medium grey		Micro-granular to dense to micro-crystalline	Dolomite	Dolomite, light to medium grey, micro-granular to dense to micro-crystalline, becoming more granular, silty, calcareous, slightly pyritic in part, with common carbonaceous partings. Minor limestone and shale as above.	Tight	Calcite Biotite Pyrite		
3960	3970	Light to medium grey to buff		Micro-granular to dense to medium crystalline	Dolomite	Dolomite as above with buff dolomite, fine to medium crystalline, silty, calcareous, tight. Common shale, dark grey, silty, grading to a dolomitic siltstone in part, calcareous, minor chalky limestone as above.	Tight	Calcite Biotite Pyrite		
3970	3980	Light grey to buff		Fine to medium crystalline	Dolomite	Dolomite, light grey to buff, fine to medium crystalline, silty in part, slightly calcareous, slightly pyritic in small part, trace of intercrystalline porosity, trace of vugular porosity filled by dolomite rhombs, trace of bitumen? Common shale, dark grey, dolomitic, carbonaceous, slightly fissile.	Trace	Calcite Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
3980	3990	Light to medium grey to buff		Fine to medium crystalline	Dolomite	Dolomite, light to medium grey to buff, fine to medium crystalline, silty, calcareous, very slightly pyritic, sandy in small part, argillaceous with trace of intercrystalline porosity. Minor shale as above. Minor limestone, white, dense, chalky, tight.	Trace	Calcite Pyrite		
3990	4000	Medium grey to buff		Fine to medium crystalline	Dolomite	Dolomite, medium grey to buff, fine to medium crystalline, silty, calcareous, sandy in part, trace of poor intercrystalline porosity with common limestone, white, fine to medium crystalline, tight. Minor limestone, dense, chalky, tight. Minor shale, greenish-grey, dolomitic, carbonaceous, slightly fissile.	Trace	Calcite		
4000	4010	Buff to brownish-grey		Fine to medium crystalline	Dolomite	Dolomite, buff to brownish-grey, fine to medium crystalline, calcareous, silty in part, trace of poor intercrystalline porosity, with limestone, dense to finely crystalline, chalky in part, tight, trace shale, dark grey to greenish-grey, dolomitic, silty in part, slightly micromicaceous.	Trace	Calcite Mica		
4010	4020	Buff to light grey to brownish-grey		Medium to finely crystalline to dense	Dolomite	Dolomite buff to light grey, brownish-grey, medium to finely crystalline to dense, calcareous, silty in part, argillaceous in part, very slightly pyritic in part, trace of intercrystalline porosity, minor limestone, white, dense, chalky. Vague impression of a fossil.	Trace	Calcite Mica Pyrite	Trace	
4020	4030	Buff to light grey to brownish-grey		Medium to finely crystalline	Dolomite	Dolomite, buff to light grey to brownish-grey, medium to finely crystalline, slightly calcareous, silty in part, trace of intercrystalline porosity, minor limestone white, dense, chalky.	Trace	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4030	4040	Brown to buff to light grey		Fine to micro-crystalline to dense	Dolomite	Dolomite, brown to buff, to light grey, finely crystalline to microcrystalline to dense, calcareous, silty in part, argillaceous in part, tight. Minor chalky limestone.	Tight	Calcite	-	
4040	4050	Brown to buff to brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, brown to buff to brownish-grey dense to microcrystalline, silty, argillaceous, calcareous, tight. Trace of chalky limestone, trace of limestone, white, medium crystalline, tight.	Tight	Calcite	-	
4050	4060	Brown to buff to brownish-grey		Dense to micro-crystalline to finely crystalline	Dolomite	Dolomite, brown to buff to brownish-grey, dense to microcrystalline to finely crystalline, calcareous, argillaceous, tight, trace of chalky limestone.	Tight	Calcite	-	
4060	4070	Brown to buff to brownish-grey		Dense to micro-crystalline to finely crystalline	Dolomite	Dolomite, brown to buff to brownish-grey, dense to microcrystalline to finely crystalline, calcareous, argillaceous, tight. Trace of chalky limestone, trace of shale, greenish-grey, dolomitic, fissile.	Tight	Calcite	-	
4070	4080	Brown to buff to brownish-grey		Dense to micro-crystalline to finely crystalline	Dolomite	Dolomite, brown to buff to brownish-grey, dense to microcrystalline, finely crystalline, calcareous, argillaceous, trace of vugular porosity.	Trace	Calcite	-	
4080	4090	Brown to buff to brownish-grey		Dense to micro-granular to micro-crystalline	Dolomite	Dolomite, brown to buff to brownish-grey, dense to micro-granular to micro-crystalline, calcareous, argillaceous, silty in part, trace of vugular porosity, minor limestone, white, dense, chalky, tight. Trace of shale, greenish-grey, dolomitic.	Trace	Calcite	-	

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4090	4100	Brown to buff to brownish-grey		Dense to micro-granular to micro-crystalline	Dolomite	Dolomite, brown to buff to brownish-grey dense to micro-granular to micro-crystalline, calcareous, silty in part, argillaceous, slightly pyritic in small part, trace of vugular porosity. Minor limestone, white, dense, chalky, tight. Trace of white, finely crystalline, tight Limestone.	Trace	Calcite Pyrite	-	
4100	4110	Brown to buff to brownish-grey		Dense to microgranular to micro-crystalline	Dolomite	Dolomite, brown to buff to brownish-grey, dense to microgranular to micro-crystalline, calcareous, silty in part, argillaceous, tight with common limestone, white, dense, chalky, tight.	Tight	Calcite	-	
4110	4120	White		Dense	Limestone & Dolomite	Limestone and dolomite; limestone white, dense, chalky, tight. Dolomite as above.	Tight	Calcite	-	
4120	4130	Buff to brownish-grey		Medium to finely crystalline to micro-crystalline	Dolomite	Dolomite, buff to brownish-grey, medium to finely crystalline to microcrystal-line, calcareous, silty, argillaceous in part, trace of vugular porosity, trace of intercrystalline porosity, with limestone, white, coarsely crystalline, tight. Minor chalky, dense limestone.	Trace	Calcite	-	
4130	4140	Buff to brownish-grey		Medium to finely crystalline to micro-crystalline	Dolomite	Dolomite, buff to brownish-grey, medium to finely crystalline to microcrystalline, calcareous, silty in part, argillaceous in part, trace of vugular porosity, trace of intercrystalline porosity with limestone, white, coarse to medium crystalline, tight.	Trace	Calcite	-	
4140	4150	Brown to buff		Dense to micro-crystalline	Dolomite	Dolomite, brown to buff to dark brownish-grey, dense to microcrystalline, cal-careous, silty, slightly argillaceous sandy in part, pyritic in small part, tight with fine to medium crystalline dolomite as above. Minor limestone white coarse to medium crystalline, tight.	Tight	Calcite Pyrite Mica	-	

Continued.

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
						Trace of shale, greenish-grey, dolomitic, silty, slightly carbonaceous, slightly micromicaceous.	Tight	Calcite Pyrite Mica	-	
4150	4160	Buff to brownish-grey		Medium to finely crystalline	Dolomite	Dolomite, buff to brownish-grey, medium to finely crystalline, calcareous, silty, in part, very slightly pyritic in part. Trace of vugular porosity. Trace of intercrystalline porosity, with brown to buff, dense dolomite as above. Minor limestone, white, coarse to medium crystalline, tight. Trace of shale, greenish-grey, dolomitic, silty in part, slightly carbonaceous, slightly micro-micaceous.	Trace	Calcite Pyrite Mica	-	
4160	4170	Brown to buff		Dense to micro-granular to micro-crystalline	Dolomite	Dolomite, brown to buff, dense to micro-granular to microcrystalline, calcareous, silty in part, argillaceous in part, tight with buff, medium to finely crystalline dolomite as above. Trace of limestone, white, dense, chalky, trace of shale as above.	Tight	Calcite Mica	-	
4170	4180	Buff to brown		Dense to microgranular to micro-crystalline	Dolomite	Dolomite, brown to buff to light grey; dense to microgranular to micro-crystalline to finely crystalline, hard, calcareous, silty in part, argil-laceous in part, tight with minor lime-stone white, dense, chalky. Trace of black, bituminous shale. Trace of shale, greenish-grey, dolomitic, carbon-aceous in part.	Tight	Calcite	-	
4180	4190	Buff to brown		Dense to finely crystalline	Dolomite	Dolomite, brown to buff to light grey, dense to microgranular to finely crystalline, hard, calcareous, silty in part, argillaceous in part, tight with minor chalky limestone, trace of greenish-grey shale as above.	Tight	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4190	4200	Light grey to buff to brown		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff to brown, dense to micro-granular to finely crystalline, hard, siliceous in part, calcareous, silty in part, tight with common chert fragments, white to light grey, angular, trace shale, greenish-grey dolomitic, carbonaceous in part. Trace limestone, white, chalky.	Tight	Calcite		
4200	4210	Light grey to buff to brown		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff to brown, dense to microgranular to finely crystalline, hard, siliceous in part, calcareous, silty in part, tight with minor shale, greenish-grey, dolomitic, fissile in part, carbonaceous. Trace of chalky limestone.	Tight	Calcite		
4210	4220	Buff to brownish-grey		Dense to micro-crystalline to finely crystalline	Dolomite	Dolomite, buff to brownish-grey, dense to microcrystalline to finely crystalline, slightly calcareous, silty in part, slightly pyritic, siliceous in part, minor vugular porosity, with common shale, greenish-grey, dolomitic, micro-micaceous, carbonaceous, slightly calcareous. Trace of limestone.	Minor Vugular Porosity	Calcite Pyrite Mica		
4220	4230	Buff to brownish-grey		Dense to micro-crystalline to finely crystalline	Dolomite	Dolomite buff to brownish-grey, dense to microcrystalline to finely crystalline, slightly calcareous, silty in part, siliceous in part, minor vugular porosity, vugs partially filled by coarse dolomite crystals. Minor shale as above. Trace of limestone, white, coarsely crystalline, tight. Trace of chalky limestone.	Minor Vugular Porosity	Calcite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4230	4240	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff, dense to microgranular to microcrystalline, siliceous in part, silty in part, slightly calcareous. Trace of vugular porosity with vugs lined with coarse dolomite rnombs. Minor shale greenish-grey, dolomitic, micromicaceous, carbonaceous, slightly calcareous, slightly fissile, trace of limestone and chert.	Trace	Calcite Mica		
4240	4250	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff to brown, dense to microgranular to micro-crystalline, siliceous in part, silty in part, slightly calcareous, very slightly pyritic in small part, tight. Minor shale as above, trace of chalky limestone.	Tight	Calcite Pyrite Mica		
4250	4260	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff, dense to microgranular to microcrystalline, siliceous in part, silty in part, slightly calcareous with trace of vugular porosity, vugs lined with medium to coarsely crystalline dolomite crystals. Trace of chert. Minor shale as above. Trace of coarsely crystalline limestone.	Trace	Calcite Mica		
4260	4270	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff to brown, dense to microgranular to micro-crystalline, siliceous in part, silty in part, slightly calcareous with trace of vugular porosity. Trace of shale and limestone.	Trace	Calcite Mica		
4270	4280	Light grey to buff to dark brownish-grey		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff to dark brownish-grey, dense to microcrystalline, to finely crystalline, siliceous in part, silty in part, slightly calcareous, very slightly pyritic in part, tight. Trace of chert and shale.	Tight	Pyrite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4280	4290	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey to buff to light grey, dense to microcrystalline, siliceous, silty in part, slightly calcareous, very slightly pyritic in part, trace of vugular porosity, vugs lined with coarse dolomite crystals. Trace of shale, greenish-grey, dolomitic, micromicaceous, carbonaceous, slightly calcareous, slightly fissile, trace of limestone.	Trace	Pyrite Mica		
4290	4300	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey to buff, dense to microgranular to microcrystalline, siliceous, silty in part, slightly calcareous, argillaceous in part, trace of vugular porosity. Trace of dolomitic shale as above.	Trace	Mica		
4300	4310	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey to buff, dense to microgranular with microcrystalline, siliceous, silty in part, argillaceous in part, slightly calcareous, minor vugular porosity with vugs partially filled with coarse dolomite crystals, no cut, stain, odour or fluorescence. Trace of chert, trace of dolomitic shale as above.	Trace	Mica		
4310	4320	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey to buff, dense to microgranular to microcrystalline, siliceous, silty in part, argillaceous in part, slightly calcareous, minor vugular porosity with vugs partially filled by coarse dolomite crystals, no cut, stain, odour or fluorescence. Trace of chert and dolomitic shale as above. Trace of limestone, white, coarsely crystalline, tight.	Trace	Calcite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4320	4330	Buff to dark brownish-grey		Dense to finely crystalline	Dolomite	Dolomite, dark brownish-grey to buff, dense to microgranular to microcrystalline to finely crystalline, siliceous in part, silty in part, argillaceous in part, slightly calcareous, minor vugular porosity, with vugs partially filled by coarse dolomite crystals. No cut, stain, odour or fluorescence. Minor shale, greenish-grey, dolomitic, micromicaceous, carbonaceous, silty in part.	Trace	Mica		
4330	4340	Buff to dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, buff to dark brownish-grey, dense to microgranular to micro-crystalline, siliceous in part, silty in part, argillaceous in part, slightly calcareous, trace of vugular porosity. Trace of shale as above.	Trace	Mica		
4340	4350	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff to dark brownish-grey, dense to microgranular to microcrystalline, siliceous in part, silty in part, argillaceous in part, slightly calcareous, trace of vugular porosity. Trace of dolomitic shale as above. Trace of limestone, white, coarsely crystalline, tight.	Trace	Calcite Mica		
4350	4360	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff to dark brownish-grey, dense to microcrystalline to microgranular, for the most part, silty, sandy in part, slightly calcareous tight with trace of dolomitic shale as above.	Tight	Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4360	4370	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey to buff, dense to microcrystalline, siliceous, silty in part, argillaceous in part, trace of vugular porosity with vugs partially filled by coarse dolomite crystals with dolomite, light grey, micro-granular, no cut, stain, odour or fluorescence. Trace shale, greenish-grey, dolomitic, micromicaceous, carbon-aceous, slightly fissile.	Trace	Mica		
4370	4380	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey, dense to microcrystalline, finely crystalline in part, siliceous, silty in part, argillaceous in part, minor vugular porosity with vugs lined by coarse dolomite crystals, no cut, stain, odour or fluorescence, trace of shale as above.	Trace	Mica		
4380	4390	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey, dense to microcrystalline, siliceous, silty in part, argillaceous in part, minor vugular porosity with vugs lined with coarse dolomite crystals, no cut, stain, odour or fluorescence. Minor dolomite, light grey, microgranular to dense. Trace of shale as above. Trace of chalky, white limestone.	Trace	Calcite Mica		
4390	4406	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey, dense to microcrystalline, siliceous, silty in part, argillaceous in part, minor vugular porosity with light grey, microgranular to dense dolomite. Trace of limestone, white, coarsely crystal-line, tight. Trace of chert and shale as above.	Trace	Calcite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4400	4410	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey, dense to microcrystalline, siliceous, silty in part, argillaceous in part, minor vugular porosity, no cut, stain, odour or fluorescence with light grey, micro-granular to dense dolomite. Trace shale, greenish-grey, dolomitic, micro-micaceous, carbonaceous. Trace of limestone as above. Trace chert.	Trace	Calcite Mica		
4410	4420	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey, dense to microcrystalline, siliceous, silty in part, argillaceous in part, trace of vugular porosity, no cut, stain, odour or fluorescence with light grey, micro-granular dolomite. Trace of shale as above. Trace of chert.	Trace	Mica		
4420	4430	Dark brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey, dense to microcrystalline, siliceous, silty in part, argillaceous in part, trace of vugular porosity with vugs lined by coarse dolomite crystals, no cut, stain, odour or fluorescence with light grey to buff, microgranular dolomite. Common chert fragments, white, dense, trace of shale, greenish-grey, dolomitic, micromicaceous, carbonaceous, slightly fissile. Trace of coarsely crystalline, white calcite.	Trace	Mica Calcite		
4430	4440	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, microgranular in part, siliceous in part, silty in part, argillaceous in part, trace of vugular porosity with light grey to buff, micro-granular dolomite. Trace of shale and limestone as above.	Trace	Mica Calcite		
4440	4450	Light grey to buff		Dense to micro crystalline	Dolomite	Dolomite, light grey to buff to brownish-grey, dense to microgranular to micro-crystalline, siliceous, silty in part, argillaceous in part, trace of vugular porosity. NCSOF. Trace of limestone,	Trace	Mica Calcite		

(continued)

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
						white, coarsely crystalline, tight. Trace of shale, greenish-grey, dolomitic, micromicaceous, carbonaceous, slightly fissile. Trace of chert.				
4450	4460	Brown to buff		Dense to micro-crystalline	Dolomite	Dolomite, brown to buff, dense to microcrystalline, siliceous, silty in part, argillaceous in part, trace of vugular porosity, with vugs lined with coarse dolomite crystals, no cut, stain, odour or fluorescence. Minor light grey to buff, microgranular dolomite. Trace shale, greenish-grey to dark grey, dolomitic, micromicaceous, carbonaceous, slightly fissile. Trace limestone, white, coarsely crystalline, tight.	Trace	Mica Calcite		
4460	4470	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff to brown, dense to microcrystalline, siliceous, silty in part, argillaceous in part, slightly calcareous, very slightly pyritic in part, trace of vugular porosity with vugs lined by coarse dolomite crystals. No cut, stain, odour or fluorescence. Trace of shale as above. Trace of chert.	Trace	Pyrite Mica		
4470	4480	Buff to brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, buff to brownish-grey, dense to microgranular, microcrystalline, very siliceous in part, silty, argillaceous in part, trace of vugular porosity with vugs lined by coarse dolomite crystals, no cut, stain, odour or fluorescence. Trace of shale, greenish-grey, dolomitic, carbonaceous, micromicaceous, slightly fissile, trace chert.	Trace	Mica		
4480	4490	Light grey to buff		Dense to microgranular	Dolomite	Dolomite, light grey to buff, dense to microgranular, siliceous in part, silty slightly argillaceous, slightly calcareous, pyritic in small part, tight with brownish-grey, dense to microcrystalline	Tight	Calcite Pyrite Mica		

(continued)

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
						dolomite as above. Minor greenish-grey shale as above. Trace of shale, black, bituminous, fissile, trace chert, trace of limestone, white, coarsely crystalline, tight.	Tight	Calcite Pyrite Mica		
4490	4500	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, siliceous, silty, argillaceous in part, pyritic in small part, slightly calcareous, trace of vugular porosity with dolomite light grey, to buff, dense to microgranular, slightly pyritic, minor greenish-grey shale as above. Trace of limestone as above. Trace chert.	trace	Calcite Pyrite Mica		
4500	4510	Light grey to buff		Dense to micro-granular	Dolomite	Dolomite, light grey to buff, dense to microgranular, siliceous, silty, sandy in part, calcareous, pyritic in small part, tight. Minor brownish-grey dolomite as above. Trace or chert. Trace of limestone, white, coarsely crystalline, tight. Trace of greenish-grey, carbonaceous, micaceous, silty, dolomitic shale.	Tight	Calcite Mica Pyrite		
4510	4520	Light grey to buff		Dense to micro-granular	Dolomite	Dolomite, light grey to buff, dense to microgranular, siliceous, silty, sandy in part, pyritic in small part, slightly calcareous, tight with brownish-grey, dense to microcrystalline dolomite as above. Trace of shale, greenish-grey, micromicaceous, dolomitic, carbonaceous, slightly fissile. Trace of limestone and chert.	Tight	Calcite Pyrite Mica		
4520	4530	Light grey to buff		Dense to micro-granular	Dolomite	Dolomite, light grey to buff, dense to microgranular, siliceous, silty, sandy in part, pyritic in small part, slightly calcareous, tight with minor amount of dolomite, brownish-grey, dense to micro-crystalline, trace of shale as above. Trace of limestone, white, coarsely crystalline, tight, Trace chert.	Tight	Calcite Pyrite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4530	4540	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, siliceous, silty, argillaceous in part, slightly calcareous, pyritic in part, tight with light grey to buff, microgranular dolomite as above. Trace of shale and chert.	Tight	Pyrite Mica		
4540	4550	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, siliceous, silty, argillaceous in part, slightly calcareous, pyritic in small part, tight with light grey to buff, microgranular to dense, dolomite as above. Trace of greenish-grey dolomitic, slightly fissile, carbonaceous micromicaceous shale. Trace of coarsely crystalline white limestone. Trace of chert.	Tight	Calcite Pyrite Mica		
4550	4560	Dark brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey to buff, dense to microcrystalline, siliceous, silty, argillaceous in part, slightly calcareous, slightly pyritic in small part, trace of vugular porosity with vugs lined with coarse dolomite crystals. Minor dolomite amounts light grey to buff, microgranular to dense, as above. Trace shale, dark grey to greenish-grey, dolomitic, micro-micaceous, carbonaceous, slightly fissile. Trace chert.	Trace	Pyrite Mica		
4560	4570	Dark brownish grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey to buff, dense to microcrystalline, siliceous, silty, argillaceous in part, slightly calcareous, slightly pyritic in small part, tight. Dolomite light grey to buff, microgranular to dense, tight. Trace shale as above. Trace chert and limestone.	Tight	Calcite Pyrite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4570	4580	Dark brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, dark brownish-grey to buff, dense to microcrystalline, microgranular in part, siliceous, silty, argillaceous in part, slightly calcareous, very slightly pyritic in part. Trace vugular porosity, with light grey to buff, microgranular dolomite as above. Trace of shale, limestone and chert.	Trace	Calcite Mica Pyrite		
4580	4590	Brownish-grey		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey, dense to microcrystalline to microgranular in part, siliceous, silty, sandy in part, argillaceous in part, slightly calcareous, trace vugular porosity with vugs lined by coarse dolomite crystals. No cut, stain, odour or fluorescence. Dolomite light grey to buff, dense to microgranular, tight. Minor shale grey, dolomitic, micromicaceous in part, carbonaceous in part. Trace limestone, white, coarsely crystalline, tight. Trace of white, chalky limestone. Trace chert.	Trace	Calcite Mica		
4590	4600	Brownish-grey to light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff to light grey, dense to microcrystalline, microgranular, in part, siliceous, silty, sandy in part, argillaceous in part, slightly calcareous, fair vugular porosity, with coarse dolomite crystals partially filling the vugs, no cut, stain, odour or fluorescence. Minor shale as above.	Fair	Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4600	4610	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microgranular in part, siliceous, silty, argillaceous in part, slightly calcareous, poor vugular porosity with vugs lined by coarse dolomite crystals, no cut, stain, odour or fluorescence with light grey to buff, dense to microgranular dolomite. Trace shale, greenish-grey, dolomitic, carbonaceous, micromicaceous, slightly fissile. Trace limestone, white, coarsely crystalline, tight.	Poor	Calcite Mica		
4610	4620	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, microgranular in part, siliceous in part, silty, argillaceous in part, slightly calcareous, trace of vugular porosity with light grey to buff, dense to microgranular dolomite, minor shale as above.	Trace	Mica		
4620	4630	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to vugg, dense to microcrystalline, microgranular in part, siliceous in part, silty, argillaceous in part, slightly calcareous, very slightly pyritic in part, trace of vugular porosity with light grey to buff, dense to micro-granular dolomite, trace of limestone, white, coarsely crystalline, tight. Trace of shale, greenish-grey, dolomitic, carbonaceous, micromicaceous, slightly fissile.	Trace	Mica Calcite		
4630	4640	Light grey to buff		Dense to micro-granular	Dolomite	Dolomite, light grey to buff, dense to microgranular, silty, siliceous in part, tight, with brownish-grey dolomite as above, minor shale as above.	Trace	Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4640	4650	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff, dense to microcrystalline, microgranular in part, siliceous in part, argillaceous in part, calcareous, trace of vugular porosity with brownish-grey, dense to micro-crystalline dolomite as above. Minor shale as above.	Trace	Mica		
4650	4660	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, finely crystalline in part, siliceous, silty, argillaceous in part, slightly calcareous, tight with light grey to buff, dense to micro-granular dolomite as above. Minor shale greenish-grey, dolomitic, micromicaceous, slightly carbonaceous, slightly fissile, trace chert.	Tight	Mica		
4660	4670	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, finely crystalline in part, siliceous, silty, argillaceous in part, slightly calcareous, very slightly pyritic in part, trace of vugular porosity with minor amounts of grey to buff, dense to microgranular dolomite as above. Minor shale as above. Trace chert.	Trace	Mica Pyrite		
4670	4680	Brownish-grey to buff.		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, finely crystalline in part, siliceous, silty, argillaceous in part, slightly calcareous, very slightly pyritic in part, tight. Minor shale as above. Common white chert fragments. Trace limestone, white, medium crystalline, tight.	Tight	Mica Calcite Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4680	4690	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, microgranular in part, finely crystalline in part, siliceous, silty, argillaceous in part, slightly calcareous, very slightly pyritic in part, trace of vugular porosity, with vugs lined by coarse dolomite crystals, no cut, stain, odour or fluorescence. Minor limestone, white, dense, very cherty. Trace chert. Trace shale as above.	Trace	Mica Calcite Pyrite		
4690	4700	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, dense to microcrystalline, microgranular in part, siliceous, silty, argillaceous in part, slightly calcareous, very slightly pyritic in part, trace of vugular porosity, no cut, stain, odour or fluorescence. Minor very cherty, white limestone, trace chert. Trace of shale as above.	Trace	Mica Pyrite Calcite		
4700	4710	Brownish-grey to buff		Dense to micro-crystalline	Dolomite	Dolomite brownish-grey to buff, dense to microcrystalline, microgranular in part, finely crystalline in part, silty, siliceous, argillaceous in part, slightly calcareous, very slightly pyritic in part, slightly vugular porosity with vugs lined by coarse dolomite crystals. No cut, stain, odour or fluorescence. Common shale, greenish-grey, dolomitic, carbonaceous, slightly micromicaceous, fissile. Trace of cherty limestone as above. Trace chert.	Trace	Calcite Pyrite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4710	4720	Brownish-grey to buff to light grey		Dense to micro-crystalline	Dolomite	Dolomite, brownish-grey to buff, to light grey, dense to microcrystalline, microgranular in part, finely crystalline in part, silty, sandy in part, siliceous, argillaceous in part, slightly calcareous, very slightly pyritic in part, tight. Common shale as above. Trace of cherty limestone. Trace of chalky limestone, trace chert.	Tight	Calcite Pyrite Mica		
4720	4730	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff, dense to microcrystalline, microgranular in part, silty, siliceous, sandy in part, slightly calcareous, very slightly pyritic, tight. Brownish-grey dolomite as above. Minor shale, medium grey, dolomitic, carbonaceous, slightly micromicaceous, slightly fissile, trace limestone, white, medium crystalline, tight. Trace chert.	Tight	Calcite Pyrite Mica		
4730	4740	Light grey to buff		Dense to micro-crystalline	Dolomite	Dolomite, light grey to buff, dense to microcrystalline, microgranular in part, siliceous, silty in part, sandy in part, slightly calcareous, very slightly pyritic in part, tight with brownish-grey, dense to microcrystalline dolomite as above. Minor shale as above. Trace of white, chalky limestone, trace chert.	Tight	Calcite Pyrite Mica		
4740	4750	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff, dense to finely crystalline, microgranular in part, siliceous in part, silty, sandy in part, calcareous, very slightly pyritic in part, tight with brownish-grey, dense to microcrystalline dolomite as above. Trace shale, greenish-grey, dolomitic slightly carbonaceous, slightly micromicaceous, slightly fissile. Trace limestone, white, coarsely crystalline, tight. Trace of white, dense, chalky limestone, trace chert.	Tight	Calcite Pyrite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4750	4760	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff, dense to finely crystalline, microgranular in part, siliceous in part, silty, slightly argillaceous in part, calcareous, very slightly pyritic, tight with brownish-grey dolomite as above. Common shale as above. Trace limestone as above.	Tight	Calcite Pyrite Mica		
4760	4770	Light grey to buff		Dense to medium crystalline	Dolomite	Dolomite light grey to buff, dense to medium crystalline, microgranular in part, siliceous in part, silty, slightly argillaceous in part, calcareous, very slightly pyritic in part, tight with brownish-grey to buff, dense to micro crystalline dolomite. Common shale medium to dark grey, dolomitic, carbonaceous, micromicaceous in part, fissile. Trace chalky dense white limestone. Trace chert.	Tight	Calcite Pyrite Mica		
4770	4780	Light grey to buff		Fine to medium crystalline	Dolomite	Dolomite light grey to buff, fine to medium crystalline, microgranular in part, silty in part, siliceous in small part, calcareous, tight with brownish-grey to buff, dense to microcrystalline dolomite. Common shale as above. Trace of limestone light grey to white, medium to coarsely crystalline, tight. Trace of white dense chalky limestone. Common shale cavings?	Tight	Calcite Mica		
4780	4790	Light grey to buff		Fine to medium crystalline	Dolomite	Dolomite light grey to buff, fine to medium crystalline, microgranular in part, silty in part, siliceous in small part, calcareous, tight. Common limestone, white, medium to coarsely crystalline, tight. Common chalky dense white limestone. Abundant shale (cavings?)	Tight	Calcite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4790	4800	Light grey to buff		Fine to medium crystalline	Dolomite	Dolomite light grey to buff, fine to medium crystalline, microgranular in part, silty in part, siliceous in small part, calcareous, tight. Common shale greenish-grey, dolomitic, carbonaceous, micromicaceous in part, silty in part, fissile in part. Abundant dark grey to black, bituminous, fissile shale, (cavings?). Minor amount limestone, white, medium crystalline, tight with some white dense, chalky limestone. Trace chert.	Tight	Calcite Mica		
4800	4810	Light grey to buff		Fine to medium crystalline	Dolomite	Dolomite light grey to buff, fine to medium crystalline, microgranular in part, silty in part, siliceous in small part, calcareous, slightly pyritic in small part, tight. Trace of greenish-grey, dolomitic shale as above. Minor amount limestone, white, medium crystalline, tight with some white, dense, chalky limestone. Trace chert. Common shale, dark grey to black, fissile, bituminous in part (cavings?).	Tight	Calcite Mica Pyrite		
4810	4820	Light grey to buff		Fine to medium crystalline	Dolomite	Dolomite light grey to buff, fine to medium crystalline, microgranular in part, silty in part, siliceous in part, calcareous, tight with minor shale, greenish-grey, micromicaceous, dolomitic, carbonaceous in part, silty in part, slightly fissile. Common white, dense, chalky limestone. Trace of white, fine to medium crystalline, tight limestone.	Tight	Calcite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4820	4830	Light grey to buff		Micro-crystalline to medium crystalline	Dolomite	Dolomite, light grey to buff, micro-crystalline to medium crystalline, microgranular in part, silty in part, siliceous in part, slightly pyritic in part, calcareous, fair vugular porosity with vugs lined by coarse dolomite crystals, no cut, stain, odour or fluorescence, common shale, greenish-grey, carbonaceous, dolomitic, micro-micaceous in part, silty in part. Minor limestone, white, fine to medium crystal-line, tight with white, dense, chalky limestone.	Fair	Calcite Mica Pyrite		
4830	4840	Light grey to buff		Dense to medium crystalline	Dolomite	Dolomite, light grey to buff, dense to medium crystalline, microgranular in part, silty in part, siliceous in part, calcareous, slightly pyritic in part, trace of vugular porosity, no cut, stain, odour or fluorescence. Minor shale, greenish-grey, dolomitic, carbonaceous in part, micromicaceous in part, silty in part, slightly fissile. Trace of lime-stone, white, dense, chalky, tight.	Trace	Calcite Pyrite Mica		
4840	4850	Light grey to buff		Dense to medium crystalline	Dolomite	Dolomite, light grey to buff, dense to medium crystalline, microgranular in part, silty in part, siliceous in part, calcareous, slightly pyritic in part, tight with minor shale as above. Trace of limestone, white, fine to medium crystalline, tight and some dense, chalky white limestone. Trace pyrite.	Tight	Calcite Pyrite Mica		
4850	4860	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff, dense to finely crystalline, microgranular in part, silty in part, siliceous in part, cal-careous, trace of vugular porosity with minor shale as above. Trace of limestone, white, dense, chalky, tight.	Trace	Calcite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4860	4870	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff, dense to finely crystalline, microgranular in part, silty in part, siliceous in part, slightly pyritic in part, calcareous, minor vugular porosity with vugs lined by coarse dolomite crystals, no cut, stain, odour or fluorescence. Minor shale as above. Trace of limestone, white, fine to medium crystalline, tight. Trace of chalky limestone.	Trace	Pyrite Calcite Mica		
4870	4880	Light grey		Micro-crystalline to medium crystalline	Dolomite	Dolomite light grey, buff in small part, microcrystalline to medium crystalline, microgranular in part, silty in part, siliceous in small part, calcareous, slightly pyritic in part, trace of vugular porosity with vugs lined by coarse dolomite crystals. Minor shale as above. Trace of white, dense, chalky limestone. Trace chert.	Trace	Pyrite Calcite Mica		
4880	4890	Light grey		Micro crystalline to medium crystalline	Dolomite	Dolomite, grey, buff in part, medium to microcrystalline, microgranular in part, silty in part, siliceous in small part, slightly pyritic in part, calcareous, trace of vugular porosity. Minor shale, medium grey, dolomitic, carbonaceous, micromicaceous, silty in part, fissile in part.	Trace	Pyrite Mica		
4890	4900	Light grey		Micro crystalline to medium crystalline	Dolomite	Dolomite, light grey, medium to micro-crystalline, microgranular in part, silty in part, siliceous in small part, slightly calcareous to calcareous, trace of vugular porosity, with minor shale as above.	Trace	Mica		
4900	4910	Light grey		Dense to finely crystalline	Dolomite	Dolomite, light grey, dense to finely crystalline, microgranular in part, slightly silty in part, siliceous in small part, slightly calcareous, slightly pyritic in part. Trace of shale, grey, dolomitic, carbonaceous, micromicaceous, silty in part, slightly fissile.	Tight	Pyrite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4910	4920	Light grey		Dense to micro-crystalline	Dolomite	Dolomite, light grey, dense to micro-crystalline, microgranular in part, slightly silty in part, siliceous in small part, slightly calcareous, tight. Trace shale as above. Trace limestone, white to light grey, dense, chalky, tight.	Tight	Mica Calcite		
4920	4930	Light grey		Dense to finely crystalline	Dolomite	Dolomite, light grey, dense to finely crystalline, micro-granular in part, slightly silty in part, siliceous in small part, calcareous, tight with minor amount of shale as above. Trace limestone as above.	Tight	Mica Calcite		
4930	4940	Light grey		Dense to micro-crystalline	Dolomite	Dolomite, light grey, dense to micro-crystalline, finely crystalline in small part, microgranular in part, silty in part, siliceous in small part, calcareous, very slightly pyritic in part, tight with trace of shale, greenish-grey, dolomitic, carbonaceous, slightly micromicaceous, silty, slightly fissile. Trace of chalky limestone.	Tight	Calcite Mica Pyrite		
4940	4950	Light grey		Dense to finely crystalline	Dolomite	Dolomite, light grey, dense to finely crystalline, microgranular in part, silty in part, siliceous in small part, calcareous, very slightly pyritic in part, with trace of dark brown, dense to microcrystalline, tight dolomite. Trace of shale as above. Trace of chalky limestone.	Tight	Calcite Mica Pyrite		
4950	4960	Light grey		Dense to finely crystalline	Dolomite	Dolomite, light grey, dense to finely crystalline, microgranular in part, silty in part, siliceous in small part, calcareous, very slightly pyritic in part, trace of vugular porosity with vugs lined by coarse dolomite crystals. No cut, stain, odour or fluorescence. Trace of dark brown, dense to micro-crystalline, tight dolomite. Trace shale as above. Common shale cavings.	Trace	Pyrite Mica		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
4960	4970	Light grey		Dense to micro-crystalline	Dolomite	Dolomite, light grey, dense to micro-crystalline, finely crystalline, micro-granular in part, silty in part, siliceous in small part, calcareous, very slightly pyritic in part, trace of vugular porosity no cut, stain. odour or fluorescence. Trace of dark brown, dense to micro-crystalline, tight dolomite. Trace of limestone. white, dense, chalky, tight. Trace shale as above.	Trace	Mica Pyrite Calcite		
4970	4980	Light grey		Dense to micro-crystalline	Dolomite	Dolomite, light grey, dense to micro-crystalline, finely crystalline in small part, microgranular in part, silty in part, siliceous in small part, calcareous, very slightly pyritic in part, trace of vugular porosity, no cut, stain, odour or fluorescence. Trace of dark brown dense, tight dolomite, trace of shale.	Trace	Mica Pyrite		
4980	4990	Light grey		Dense to micro-crystalline	Dolomite	Dolomite, light grey, dense to micro-crystalline, finely crystalline in small part, microgranular in part, siliceous in small part, calcareous, very slightly pyritic in part, trace of vugular porosity trace shale. Trace of white, dense, chalky limestone.	Trace	Mica Pyrite Calcite		
4990	5000	Light grey		Dense to finely crystalline	Dolomite	Dolomite, light grey, buff in part, dense to finely crystalline, granular in part, siliceous in small part, calcareous, very slightly pyritic in part, tight with minor shale, dark grey to grey, dolomitic carbonaceous, slightly micromicaceous, silty in part, fissile in part, trace of limestone, white, dense, chalky.	Tight	Pyrite Mica Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5000	5010	Light grey to buff		Dense to medium crystalline	Dolomite	Dolomite, light grey to buff, dense to medium crystalline, granular in part, argillaceous in part, siliceous in small part, calcareous, very slightly pyritic in part, fair vugular porosity with vugs lined by coarse buff dolomite crystals. No cut, stain, odour or fluorescence. Trace of very carbonaceous, dolomitic grey shale, trace of limestone, white, medium crystalline, tight. Trace of white dense chalky limestone.	Fair	Pyrite Mica Calcite		
5010	5020	Light grey to buff		Dense to medium crystalline	Dolomite	Dolomite, light grey to buff, dense to medium crystalline, granular in part, brown in part, argillaceous in part, siliceous in small part, calcareous, very slightly pyritic in part, trace of vugular porosity. Trace shale, trace of white, dense, chalky limestone.	Trace	Pyrite Mica Calcite		
5020	5030	Light grey to buff		Medium crystalline to dense	Dolomite	Dolomite, light grey to buff, brown in part, medium crystalline to dense, granular in part, argillaceous in part, siliceous in small part, calcareous, tight. Minor shale, grey, dolomitic, carbonaceous, slightly micromicaceous, silty, fissile in part. Trace of white, coarsely crystalline limestone. Trace of white, dense, chalky limestone.	Tight	Calcite Mica		
5030	5040	Light grey to buff		Medium crystalline to dense	Dolomite	Dolomite light grey to buff, brown in part, medium crystalline to dense, granular in part, argillaceous in part, siliceous in small part, calcareous, tight with dolomite, dark brownish-grey microcrystalline to finely crystalline, granular, argillaceous, siliceous, silty pyritic in part, slightly calcareous, tight. Abundant light to dark grey chert fragments (drilling time 20/25 min./ft.) Common shale, greenish-grey, dolomitic, carbonaceous, slightly micromicaceous, silty in part. Minor limestone, white medium to finely crystalline, tight. (continued)	Tight	Pyrite Mica Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
						Minor chalky, dense, white limestone. Abundant dark grey to black, bituminous, fissile shale, probably cavings.	Tight	Pyrite Mica Calcite		
5040	5050	Light grey to buff		Medium crystalline to dense	Dolomite	Dolomite, light grey to buff, brown in part, medium crystalline to dense, granular in part, slightly argillaceous, siliceous in small part, calcareous, tight with dolomite, dark brownish-grey, dense to finely crystalline, granular, argillaceous, siliceous in part, silty, pyritic in part, slightly calcareous, tight, common chert fragments. Abundant shale as above, probably cavings? Common limestone as above.	Tight	Pyrite Mica Calcite		
5050	5060	Light grey to buff		Medium crystalline to dense	Dolomite	Dolomite, light grey to buff, medium crystalline to dense, granular in part, slightly argillaceous, slightly silty, siliceous in small part, calcareous, trace of vugular porosity with vugs lined by coarse dolomite crystals. Minor dolomite, dark brownish-grey, finely crystalline to dense, granular, argillaceous, siliceous in part, silty, pyritic in small part, slightly calcareous, tight. Minor shale, greenish-grey, dolomitic, carbonaceous, silty in part, micromicaceous in part, common limestone, white, dense, chalky, tight. Trace chert.	Trace	Pyrite Mica Calcite		
5060	5070	Light grey to buff		Medium to finely crystalline	Dolomite	Dolomite, light grey to buff, medium to finely crystalline, granular in part, slightly silty, calcareous to slightly calcareous, trace of vugular porosity, no cut, stain, odour or fluorescence. Trace of limestone, white, fine to medium crystalline, tight. Trace of white, dense chalky limestone.	Trace	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5070	5080	Light grey to buff		Medium to finely crystalline	Dolomite	Dolomite, light grey to buff, medium to finely crystalline, granular in part, argillaceous in small part, slightly silty, calcareous to slightly calcareous, trace of vugular porosity. Common white to light grey chert fragments. Trace of white, fine to medium crystalline, tight limestone.	Trace	Calcite		
5080	5090	Light grey to buff		Medium to finely crystalline	Dolomite	Dolomite, light grey to buff, medium to finely crystalline, microcrystalline in part, argillaceous in small part, slightly silty, very slightly pyritic in part, calcareous with slightly calcareous, trace of vugular porosity, no cut, stain, odour or fluorescence. Common white to light grey chert fragments. Trace limestone, white, fine to medium crystalline, tight. Trace of white, dense, chalky limestone.	Trace	Pyrite Calcite		
5090	5100	Light grey to buff		Medium to micro-crystalline	Dolomite	Dolomite light grey to buff, medium to microcrystalline, granular in part, argillaceous in small part, slightly silty, slightly calcareous, tight. Common white to light grey chert fragments. Trace of limestone, white, fine to medium crystalline, tight, chalky in part.	Tight	Calcite		
5100	5110	Light grey to buff		Medium to micro-crystalline	Dolomite	Dolomite, light grey to buff, brown in part, medium to microcrystalline, dense in small part, slightly silty, slightly calcareous, very slightly pyritic in part, tight. Common white to light grey chert fragments. Trace of limestone white, fine to medium crystalline, tight. Trace dense, chalky, white limestone. Abundant shale, cavings (logged hole at 5103')	Tight	Pyrite Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5110	5120	Light grey to buff		Dense to micro-crystalline	Chert & Dolomite	Chert white to light grey to buff to dense, limy in part, with dolomite, buff dense to microcrystalline, cherty, slightly silty, slightly calcareous, tight.	Tight			
5120	5130	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite light grey to buff, dense to finely crystalline, granular in part, silty in part, calcareous, very slightly pyritic in part, trace of vugular porosity. Common chert fragments. Abundant cavings. (Three trips to make interval).	Trace	Pyrite		
5130	5140	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff, dense to finely crystalline, granular in part, silty in part, calcareous, very slightly pyritic in part, trace of vugular porosity with vugs partially filled by coarse dolomite crystals, no cut, stain, odour or fluorescence. Trace of white fine to medium crystalline, tight limestone. Trace of buff chert.	Trace	Pyrite Calcite		
5140	5150	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite light grey to buff, dense to finely crystalline, medium crystalline in part, granular in part, slightly silty, slightly calcareous, trace of vugular porosity, no cut, stain, odour or fluorescence. Trace of white to light grey chert fragments.	Trace			
5150	5160	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff, dense to finely crystalline, medium crystalline in part, slightly silty in part, slightly calcareous, trace of vugular porosity with quartz and dolomite crystals partially filling vug space. No cut, stain, odour or fluorescence. Trace of limestone, white, fine to medium crystalline, tight. Trace chert.	Trace	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5160	5170	Light grey to buff		Dense to finely crystalline	Dolomite	Dolomite, light grey to buff, dense to finely crystalline, granular in part, silty in part, slightly calcareous, trace of vugular porosity, no cut, stain, odour or fluorescence. Trace of limestone, white, fine to medium crystalline, tight.	Trace	Calcite		
5170	5180	Light grey to buff		Dense to micro-crystalline	Dolomite & Chert	Dolomite, light grey to buff, dense to microcrystalline, cherty, slightly silty, slightly calcareous, poor vugular porosity with vugs lined by buff, medium crystalline dolomite crystals and by later fine to coarsely crystalline quartz crystals, no cut, stain, odour or fluorescence. Abundant light grey chert fragments. Minor dolomite as above.	Poor	Quartz		
5180	5190	Light grey to light buff		Dense to finely crystalline	Dolomite	hard, siliceous, with milky chert, disseminated throughout, trace well formed dolomite and quartz crystals, probably infill of fractures or vugs, trace fairly hard, white, earthy mineral. Trace pyrite, slightly silty in part.	Tight	Quartz Chert Pyrite	Crinoid Stems?	
5190	5200	As above		As above	Dolomite	Dolomite as above, slightly less chert.	Tight	Quartz Chert Pyrite Calcite		
5200	5210	As above		As above	Dolomite	Dolomite as above, abundant chert, very siliceous, abundant quartz, trace well formed quartz crystals, very hard, trace pyrite.	Tight	Chert Pyrite Quartz		
5210	5220	Very light buff to light grey		Micro-crystalline to micro-granular	Dolomite	hard, siliceous, very silty in part, vari-colored chert disseminated throughout, trace quartz crystals, slightly calcareous in part, sugary texture in part.	Tight	Chert		

Drill From	Drill To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5220	5230	Light grey to light buff		Dense to micro-crystalline	Dolomite	hard, siliceous, silty in part, trace quartz and dolomite crystals, chert, fair amount shale cavings.	Tight	Quartz Chert		
5230	5240	As above		Dense to medium crystalline	Dolomite	hard, siliceous, silty in part, trace well formed dolomite and quartz crystals, trace varicolored chert.	Tight	Quartz Chert		
5240	5250	As above		As above	Dolomite	Dolomite as above, only slight trace chert, abundant well formed dolomite crystals, no cut, stain, odour or fluorescence.	Tight	Chert		
5250	5260	As above		Dense to micro - crystalline	Dolomite	Dolomite as above, slight trace quartz, rusty material looks like limonite partings.	Tight	Quartz		
5260	5270	As above		Dense to medium crystalline	Dolomite	Dolomite as above, fair amount well formed dolomite and quartz crystals, trace pyrite.		Quartz Pyrite		
5270	5280	As above		As above	Dolomite	mostly medium crystalline, hard, silty, dolomite with dense, light grey dolomite. Trace pinpoint porosity, no stain, cut, odour or fluorescence, slight trace quartz and dolomite crystals.	Trace	Quartz		
5280	5290	Light grey to light buff		Dense to medium crystalline	Dolomite	hard, silty, mostly medium crystalline dolomite, trace well formed dolomite and quartz crystals, siliceous in part.	Tight	Quartz		
5290	5300	As above		As above	Dolomite	Dolomite as above, trace pyrite.	Tight	Quartz Pyrite		
5300	5310	As above		Dense to micro-crystalline	Dolomite	Dolomite as above with trace limonite partings.	Tight	Quartz Pyrite		
5310	5320	As above		Dense to medium crystalline	Dolomite	Dolomite as above.	Tight	Quartz Pyrite Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5320	5330	Light grey to light buff		Dense to medium crystalline	Dolomite	Dolomite as above	Tight	Quartz Pyrite Calcite		
5330	5340	As above		As above	Dolomite	Dolomite as above with abundant milky white chert, well formed dolomite and quartz crystals, calcite.	Tight	Quartz Chert Calcite		
5340	5350	As above		Dense to micro-crystalline	Dolomite	hard, siliceous, silty, with well formed dolomite crystals, trace quartz crystals, trace milky white chert, trace pyrite.	Tight	Calcite Chert Quartz Pyrite		
5350	5360	As above		Dense to medium crystalline	Dolomite	Dolomite as above, dolomite crystals as above, slight trace white chert, no cut, stain, odour or fluorescence.	Tight	Calcite Chert Quartz		
5360	5370	As above		As above	Dolomite	Dolomite as above, trace well formed dolomite and quartz crystals.	Tight	Quartz		
5370	5380	Light grey to light buff		Dense to micro-crystalline	Dolomite	mostly light grey, silty, argillaceous, dense, dolomite with light buff, micro-crystalline, silty dolomite, well formed quartz and dolomite crystals. Trace white powdered calcite, no cut, stain, odour or fluorescence.	Tight	Quartz Calcite		
5360	5390	Light grey		Dense to micro-granular	Dolomite	light grey, silty, argillaceous, with trace buff medium crystalline dolomite, slight trace powdered calcite, quartz and dolomite crystals, trace pyrite.	Tight	Quartz Pyrite Calcite		
5390	5400	As above		As above	Dolomite	Dolomite as above.	Tight	Calcite		
5400	5410	Light grey to light buff		Dense to medium crystalline	Dolomite	Dense, light grey dolomite as above and light buff, medium crystalline dolomite, siliceous, slightly silty in part, with well formed quartz and dolomite crystals, abundant calcite, abundant shale cavings, trace pinpoint porosity. No cut, stain, odour or fluorescence.	Trace	Calcite Quartz		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5410	5420	Light grey to light buff		Dense to medium crystalline	Dolomite	mostly light buff, medium crystalline dolomite with light grey, dense, slightly argillaceous dolomite, trace well formed quartz crystals, milky white to light grey chert. Trace calcite.	Tight	Calcite Chert Quartz		
5420	5430	Light grey to light cream		Dense to micro-granular	Dolomite	mostly light grey to light cream, dense to microgranular, siliceous, silty dolomite, with trace light grey, medium crystalline dolomite. Calcite crystals and powdered calcite, trace pyrite.	Tight	Calcite Pyrite		
5430	5440	As above		As above	Dolomite	Dolomite as above.	Tight	Pyrite		
5440	5450	Light buff to dark brownish-grey		Dense to micro-crystalline	Dolomite	hard, siliceous, silty, slight trace light grey chert, well formed quartz crystals common with dolomite as above.	Tight	Quartz		
5450	5460	As above		As above	Dolomite	Dolomite as above.	Tight	Quartz Pyrite		
5460	5470	Medium to dark greyish-brown		Micro-crystalline	Dolomite	very silty, appears to have quartz filled fractures or vugs with dolomite as above.	Tight	Quartz		
5470	5480	As above		As above	Dolomite	Dolomite as above quartz common, clear crystalline mineral somewhat softer than quartz common.	Tight	Quartz		
5480	5490	Light to medium brown		Dense to micro-crystalline	Dolomite	silty, hard, sugary texture in part, abundant well formed quartz crystals, clear to milky, white mineral common. Possibly from vugs or fractures. (Lost approx. 20 barrels of mud while drilling this interval).	?	Quartz?		
5490	5500	As above		As above	Dolomite	Dolomite as above, quartz and other clear mineral, fairly common, slight trace light buff chert.	Tight	Quartz Chert?		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5500	5510	Light to dark brown		Micro-crystalline	Dolomite	hard, siliceous, silty, trace quartz crystals, varicolored chert common.	Tight	Quartz Chert		
5510	5520	As above		As above	Dolomite	Dolomite as above, slight trace varicolored chert, quartz crystals.	Tight	Quartz Chert		
5520	5530	Light to dark greyish-brown		Dense to micro-crystalline	Dolomite	hard, siliceous, silty, with varicolored chert, disseminated throughout, trace quartz crystals, trace well formed dolomite crystals, no cut, stain, odour or fluorescence.	Tight	Quartz Chert		
5530	5540	Light cream		Dense to micro-crystalline	Dolomite	hard, siliceous, silty, well formed dolomite crystals, fair pinpoint porosity, no cut, stain, odour or fluorescence. Milky chert common with dark brown dolomite as above.	Fair	Chert		
5540	5550	Light buff to dark greyish-brown		As above	Dolomite	Dolomite as above, trace pinpoint porosity, no cut, stain, odour or fluorescence, varicolored chert, common. Trace quartz crystals.	Trace	Quartz Chert		
5550	5560	Light grey to light buff		Lithographic to micro-crystalline	Dolomite	very hard, very siliceous, appears to be oolitic in part, slight trace pinpoint porosity, no cut, stain, odour or fluorescence, abundant milky white chert, trace quartz crystals, clear mineral softer than quartz with dolomite as above.	Trace	Quartz Chert		
5560	5570	As above		Dense to micro-crystalline	Dolomite	Dolomite as above, slightly less chert.	Tight	Quartz Chert		
5570	5580	Light buff to dark brown		As above	Dolomite	Dolomite as above with dark brown, microcrystalline to microgranular, silty dolomite, varicolored chert.	Tight	Chert		
5580	5590	Light buff to dark brown		Dense to micro-crystalline	Dolomite	hard, siliceous, silty in part, argillaceous in part with dolomite and quartz crystals, trace pinpoint porosity, no cut, stain, odour or fluorescence, varicolored chert common.	Trace	Chert Quartz		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5590	5600	Light cream to light buff		Dense to micro-crystalline	Dolomite	hard, siliceous, silty in part, with dolomite and quartz crystals, trace pin-point porosity; no cut, stain, odour or fluorescence, slight trace chert.	Trace	Quartz Chert		
5600	5610	Light grey to light buff		As above	Dolomite	Dolomite as above, slight trace chert, slightly argillaceous in part.	Tight	Qu... Cal... Chert		
5610	5620	As above		As above	Dolomite	Dolomite as above, very slight trace gypsum, chert more common, quartz and dolomite crystals common, trace pinpoint porosity. No cut, stain, odour or fluores-cence.	Trace	Quartz Chert Gypsum		
5620	5630	Very light cream to light buff		As above	Dolomite	Dolomite as above, microgranular in part, trace dolomite and quartz crystals, trace milky chert.	Tight	Quartz Chert		
5630	5640	As above		As above	Dolomite	as above becoming more calcareous, slight trace milky white chert, quartz crystals.	Tight	Calcite Chert Quartz		
5640	5650	As above		As above	Dolomite	as above, becoming limy in part, quartz crystals.	Tight	Calcite Quartz		
5650	5660	Very light cream to light buff		Dense to micro-crystalline	Dolomite	slightly argillaceous in part, slightly silty in part, very slightly oolitic in part, slightly limy in part, trace pin-point porosity, no cut, stain, odour or fluorescence, trace dolomite and quartz crystals.	Trace	Quartz		
5660	5670	As above		As above	Dolomite	Dolomite as above, abundant quartz, slight trace pinpoint porosity, no cut, stain, odour or fluorescence.	Trace	Quartz Calcite		
5670	5680	Light buff to dark greyish-brown		As above	Dolomite	dark greyish-brown, microcrystalline, silty dolomite with light buff dolomite as above, quartz crystals, varicolored chert common.	Tight	Quartz Chert		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5680	5690	Light grey to light buff		Dense to medium crystalline	Dolomite	slightly argillaceous in part, slightly more calcareous in part, trace quartz crystals, siliceous.	Tight	Quartz		
5690	5700	As above		As above	Dolomite & Quartz	Dolomite as above, sample is nearly half crystalline quartz, possibly from fractures or quartz filled vugs. No cut, stain, odour or fluorescence.	?	Quartz		
5700	5710	Light buff to dark brown		As above	Dolomite	Dolomite as above, abundant quartz crystals, slight trace light grey chert, abundant shale cavings.	Tight	Quartz Chert		
5710	5720	Light grey to light buff		As above	Dolomite	slightly silty in part, slightly limy in part, trace powdered calcite.	Tight	Calcite		
5720	5730	Light grey to light buff		Dense to medium crystalline	Dolomite	siliceous, trace powdered calcite, trace light grey chert.	Tight	Quartz Chert		
5730	5740	As above		As above	Dolomite	Dolomite as above, slight trace chert, trace white earthy mineral.	Tight	Quartz Chert		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5740	5750	Light buff to medium greyish-brown		Dense to medium crystalline	Dolomite	hard, siliceous, slightly silty in part, trace crystalline quartz, abundant milky white to light grey chert. Abundant shale cavings.	Tight	Quartz Chert		
5750	5760	Light buff to light grey		As above	Dolomite	hard, siliceous, silty in part, abundant crystalline quartz and milky white to light grey chert, soft white, earthy mineral common, could be gypsum.	Tight	Quartz Chert Gypsum?		
5760	5770	Light grey to light brown		As above	Dolomite	siliceous, silty in part with trace crystalline quartz and milky chert. Trace white earthy mineral. Shale cavings.	Tight	Quartz Chert Gypsum?		
5770	5780	As above		As above	Dolomite & Chert	Dolomite as above, sample nearly half varicolored chert, white, earthy mineral common.	Tight	Chert Quartz Gypsum		
5780	5790	As above		As above	Dolomite	Dolomite as above, less amounts of quartz and chert.	Tight	Chert Quartz		
5790	5800	Light grey to light brown		Dense to medium crystalline	Dolomite	siliceous, hard, slightly silty in part, quartz and light grey chert common. Lost circulation while drilling this interval.	Tight	Quartz Chert		
5800	5810	As above		As above	Dolomite	dolomite as above, with quartz and chert as above. Oolitic in part, trace white earthy mineral.	Tight	Quartz Chert Gypsum?	Oolites	
5810	5820	As above		As above	Dolomite	dolomite as above with light grey and light buff chert fragments, slightly oolitic in part, trace powdered calcite. Trace white earthy mineral. Trace well formed quartz crystals, no cut, stain, odour or fluorescence.	Tight	Quartz Chert	Oolites	

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5820	5830	Light grey to light brown		Dense to medium crystalline	Dolomite	dolomite as above, slightly more calcareous, slightly argillaceous in part.	Tight	Quartz Chert	Oolites	
5830	5840	Light grey to light buff		Dense to micro-crystalline	Dolomite	hard, siliceous, silty in part, micro-granular in part, very slight trace crystalline quartz and light grey chert.	Tight	Quartz Chert		
5840	5850	Light grey to light buff		Dense to micro-granular	Dolomite	dolomite as above, slight trace crystalline quartz.	Tight	Quartz		
5850	5860	As above		As above	Dolomite	hard, siliceous, silty in part, slightly argillaceous in part, slight trace calcite, trace crystalline quartz and light grey chert.	Tight	Calcite Quartz Chert		
5860	5870	As above		As above	Dolomite	dolomite as above, very slightly limy in part, trace oolites, trace powdered calcite, trace crystalline quartz and light grey chert.	Tight	Calcite Quartz Chert	Fragments	
5870	5880	As above		As above	Dolomite	dolomite as above, microcrystalline in part, slight trace gypsum, crystalline quartz, slight trace pyrite.	Tight	Quartz Gypsum Pyrite		
5880	5890	As above		Dense to medium crystalline	Dolomite	dolomite as above with light grey, medium crystalline dolomite, trace calcite.	Tight	Calcite		
5890	5900	As above		Dense to micro-granular ~~crystalline~~	Dolomite	dolomite as above with trace medium crystalline dolomite as above, trace crystalline quartz and white chert.	Tight	Quartz Chert		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5900	5910	Medium to dark brown		Micro-crystalline	Dolomite	very slightly silty in part, very slightly argillaceous in part, micro-granular in part with crystalline quartz and dolomite. Dolomite as above.	Tight	Quartz Calcite		
5910	5920	Light grey to dark brown		Dense to micro-crystalline	Dolomite	interbedded light grey, dense, very slightly argillaceous dolomite and dark brown, slightly silty dolomite. Trace crystalline quartz and dolomite crystals. Trace powdered calcite.	Tight	Quartz Calcite		
5920	5930	Light grey to light buff		Dense to micro-granular	Dolomite	very slightly argillaceous dolomite as above with trace dark brown dolomite as above. Trace well formed dolomite crystals, no cut, stain, odour or fluorescence.	Tight			
5930	5940	As above		As above	Dolomite	dolomite as above with well formed quartz and dolomite crystals, slight trace light grey chert.	Tight	Quartz Chert		
5940	5950	As above		As above	Dolomite	As above, trace crystalline quartz and light grey to white chert.	Tight	Quartz Chert		
5950	5960	As above		Dense to medium crystalline	Dolomite	slightly silty in part, slight trace intercrystalline porosity, no cut, stain, odour or fluorescence. Trace powdered calcite.	Trace	Calcite		
5960	5970	Medium to dark brown		Dense to micro-crystalline	Dolomite	very silty in part, slightly argillaceous in part, trace calcite.	Tight	Calcite		
5970	5980	Light grey		Micro-crystalline	Dolomite	argillaceous in part, slight trace inter-crystalline porosity in part, no cut, stain, odour or fluorescence, trace crystalline calcite.	Trace	Calcite		
5980	5990	Light grey to light buff		Dense to micro-crystalline	Dolomite	silty in part, argillaceous in part, slightly calcareous in part, fair inter-crystalline porosity. No cut, stain, odour or fluorescence.	Fair			

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
5990	6000	Light grey to light brown		Micro-crystalline	Dolomite	silty in part, fair intercrystalline porosity in part, slight trace light brown stain, no odour, cut, fluorescence.	Fair			
6000	6010	As above		As above	Dolomite	dolomite as above, micro-granular in part, trace fair intercrystalline porosity in part, trace light brown stain. No cut, odour or fluorescence. Trace well formed dolomite crystals, trace powdered calcite.	Fair	Calcite		
6010	6020	Light to dark grey-brown		Dense to micro-crystalline	Dolomite	silty in part, slightly argillaceous in part. sugary in part.	Tight			
6020	6030	Light grey to medium brown		As above	Dolomite	silty in part, siliceous in part, slightly argillaceous in part, micro-granular in part, trace crystalline quartz, slight trace intercrystalline porosity, no cut, stain, odour or fluorescence, trace light grey to dark brown chert.	Trace	Quartz Chert		
6030	6040	As above		As above	Dolomite	dolomite as above, slight trace yellow stain. No cut or fluorescence, trace chert.	Tight	Quartz Chert		
6040	6050	As above		As above	Dolomite	dolomite as above, slightly limy in part, trace crystalline quartz, slight trace white chert, trace pyro-bitumen, argillaceous in part.	Tight	Quartz Chert		
6050	6060	Light grey to light buff		Dense to micro-granular	Dolomite	hard, siliceous, slightly silty in part, slightly argillaceous in part, trace crystalline quartz, light grey to white chert common.	Tight	Quartz Chert		
6060	6070	Light grey to light buff		Dense to micro-crystalline	Dolomite	hard, siliceous, trace crystalline quartz, trace light grey to white chert, slight trace oolites in siliceous dolomite. Trace dark brown, micro-crystalline dolomite.	Tight	Quartz Chert	Oolites	

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
6070	6080	Light grey to light buff		Dense to micro-crystalline	Dolomite	light grey to light buff, dense, dolomite as above. Trace powdered calcite, slightly argillaceous in part, slightly silty in part.	Tight	Calcite		
6080	6090	As above		As above	Dolomite	dolomite as above with slight trace dark grey chert, trace medium brown microcrystalline dolomite.	Tight	Chert		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
6090	6100	Light buff to medium brown		Dense to micro-granular	Dolomite	hard, slightly silty in part, slightly argillaceous in part, trace light grey to white chert, trace calcite, trace pyro bitumen.	Tight	Chert Calcite		
6100	6110	Medium brown		As above	Dolomite	Dolomite as above, trace chert, trace pyrite, trace powdered calcite.	Tight	Chert Calcite Pyrite		
6110	6120	Light buff to medium brown		As above	Dolomite	Dolomite as above, slight trace chert.	Tight	Chert		
6120	6130	As above		As above	Dolomite	Dolomite as above, slight trace chert as above.	Tight	Chert		
6130	6140	Light grey to light brown		As above	Dolomite	hard, siliceous, slightly argillaceous in part, trace crystalline quartz, trace calcite, slight trace pyro bitumen.	Tight	Calcite Quartz		
6140	6150	As above		As above	Dolomite	Dolomite as above, trace dark brown, dense dolomite, trace dark brown chert.	Tight	Chert Quartz		
6150	6160	Light to medium brown		As above	Dolomite	slightly argillaceous in part, silty in part, hard with trace crystalline calcite.	Tight	Calcite		
6160	6170	As above		As above	Dolomite	Dolomite as above, trace crystalline quartz.	Tight	Quartz		
6170	6180	Light to medium brown		Dense to micro-crystalline	Dolomite	slightly silty in part, slightly argillaceous in part, trace crystalline quartz, trace pyro bitumen. No cut, stain, odour or fluorescence, trace dark brown micro-crystalline dolomite.	Tight	Quartz		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
6180	6190	Light to dark brown		Dense to micro-crystalline	Dolomite	Dolomite as above, trace powdered calcite, trace crystalline quartz.	Tight	Calcite Quartz		
6190	6200	As above		As above	Dolomite	as above, silty in part.	Tight	Calcite Quartz		
6200	6210	Light grey to dark brown		As above	Dolomite	mostly light grey to light buff, dense dolomite with dark brown, silty dolomite, slight trace dark brown chert.	Tight	Chert	Fragments?	
6210	6220	Light grey to light buff		Dense to medium crystalline	Dolomite	slightly argillaceous in part, siliceous, hard, trace pyro bitumen. No cut, stain, odour or fluorescence, trace crystalline calcite.	Tight	Calcite		
6220	6230	As above		Dense to micro-crystalline	Dolomite	Dolomite as above, trace crystalline quartz and dolomite crystals, trace pyro bitumen.	Tight	Quartz		
6230	6240	As above		Dense to medium crystalline	Dolomite	Dolomite as above, crystalline and powdered calcite common.	Tight	Calcite Quartz		
6240	6250	Light grey to light brown		Dense to coarse crystalline	Dolomite	slightly argillaceous in part, trace powdered calcite, trace crystalline quartz.	Tight	Calcite Quartz		
6250	6260	Light grey to light brown		Dense to coarse crystalline	Dolomite	siliceous, slightly silty in part, trace powdered calcite, well formed quartz crystals common. Trace pyro bitumen, trace pyrite.	Tight	Quartz Pyrite		
6260	6270	As above		Dense to micro-crystalline	Dolomite	as above.	Tight	Quartz Calcite Pyrite.		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
6270	6280	Light grey to light brown		Dense to micro-crystalline	Dolomite	dolomite as above with trace pinpoint porosity, no cut, stain, odour or fluorescence, well formed dolomite and quartz crystals.	Trace	Quartz		
6280	6290	As above		As above	Dolomite	Dolomite as above, trace intercrystalline porosity, no cut, stain, odour or fluorescence, dolomite and quartz crystals.	Trace	Quartz		
6290	6300	As above		Dense to medium crystalline	Dolomite	Dolomite as above, quartz, pyrite and dolomite crystals common. Trace inter-crystalline porosity, no cut, stain, odour or fluorescence. Trace powdered calcite. Lost circulation while drilling this interval.	Trace	Quartz pyrite		
6300	6310	Light to medium brown		As above	Dolomite	slightly silty in part, slightly argillaceous in part, trace pyro bitumen, no cut, stain, odour or fluorescence, trace medium to dark brown chert, trace pyrite.	Tight	Quartz Pyrite Chert		
6310	6320	As above		Dense to micro-crystalline	Dolomite	dolomite as above, trace dolomite and quartz crystals, no cut, stain, odour or fluorescence, varicolored chert more common. Trace pyrite.	Tight	Quartz Chert Pyrite		
6320	6330	Light buff		Dense to micro-crystalline	Dolomite	very slightly argillaceous in part, trace well formed dolomite crystals, trace light brown stain, no cut, odour or fluorescence (could be rust stain from drying pans); trace calcite.	Tight	Calcite		
6330	6340	As above		As above	Dolomite	Dolomite as above.	Tight	Calcite		
6340	6350	As above		Dense to medium crystalline	Dolomite	Dolomite as above, trace well formed dolomite crystals, trace calcite, trace pyrite.	Tight	Calcite Pyrite		
6350	6360	As above		As above	Dolomite	Dolomite as above.	Tight	Calcite Pyrite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
6360	6370	Light buff to medium brown		Dense to micro-crystalline	Dolomite	very slightly silty in part with trace well formed dolomite crystals. Trace crystalline and powdered calcite.	Tight	Calcite		
6370	6380	Medium to dark brown		Micro-crystalline	Dolomite	slightly silty, slightly argillaceous in part, trace well formed dolomite crystals, trace calcite.	Tight	Calcite		
6380	6390	As above		As above	Dolomite	Dolomite as above.	Tight	Calcite		
6390	6400	Light to medium brown		Dense to micro-crystalline	Dolomite	very slightly silty in part, trace pyrite.	Tight	Pyrite		
6400	6410	Light to dark greyish-brown		Dense to micro-crystalline	Dolomite	very slightly silty in part, trace crystal-line and powdered calcite, trace pyrite, very slight trace chert.	Tight	Calcite Pyrite Chert		
6410	6420	As above		As above	Dolomite	Dolomite as above.	Tight	Calcite Pyrite		
6420	6430	As above		As above	Dolomite	Dolomite as above, trace calcite-filled fractures.	Tight	Calcite		
6430	6440	As above		As above	Dolomite	Dolomite as above.	Tight			
6440	6450	As above		As above	Dolomite	Dolomite as above with slight trace intercrystalline porosity, well formed dolomite crystals, no cut, stain, odour or fluorescence.	Tight			
6450	6460	Light grey to dark greyish-brown		As above	Dolomite	Dolomite as above.	Tight	Calcite		

Drilled From	Drilled To	Main Color	Bedding	Texture and Grain Size	Main Rock Type	Description	Porosity	Minerals	Fossils	Formation Tops
6460	6470	Light to dark brown		Dense to micro-crystalline	Dolomite	Dolomite as above, trace pyro bitumen, slight trace intercrystalline porosity, no cut, stain, odour or fluorescence, trace crystalline calcite.	Trace	Calcite		
6470	6480	Light buff to light grey to medium brown		As above	Dolomite	slightly silty in part, slightly argillaceous in part, trace intercrystalline porosity, no cut, stain, odour or fluorescence, slight trace light grey chert.	Trace	Calcite Pyrite Chert		
6480	6490	Light buff to dark brown		As above	Dolomite	Dolomite as above.	Tight	Quartz Calcite		
6490	6500	Light grey to light buff to dark brown		Dense to micro-crystalline	Dolomite	slightly silty, slightly argillaceous in part, with trace well formed dolomite crystals, trace calcite.	Tight	Calcite		
6500	6510	Light buff to dark brown		As above	Dolomite	mostly dark brown, microcrystalline, slightly silty dolomite with light buff dolomite as above, trace crystalline quartz.	Tight	Calcite Quartz		
6510	6520	As above		As above	Dolomite	Dolomite as above with light grey, dense dolomite, trace crystalline quartz, powdered calcite common, very slight trace white chert.	Tight	Chert Quartz Calcite		
6520	6530	As above		As above	Dolomite	Dolomite as above, trace pyrite, shale cavings.	Tight	Quartz Calcite Pyrite		Coring samples 6520-6555.
6530	6540	As above		As above	Dolomite	Dolomite as above, more shale cavings.	Tight	Quartz Calcite		
6540	6550	As above		As above	Dolomite	Dolomite as above, caving as above.	Tight	Quartz Pyrite		

DAILY DRILLING REPORT

OPERATOR: ATLANTIC RICHFIELD OIL CORP

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: RO CORP GRANDVIEW No. 1

PROVINCE: N W T

CONTRACTOR: PETER BAWDEN DRILLING LIMITED

RIG NO.: 16

DRILL PIPE STRING NO. SIZE: 4 1/2 TYPE THD. FH

TOOL JOINT: 5 3/4 OD

DRILL PIPE GRADE:

OPERATOR'S REPRESENTATIVE: J. R. Brown.

CONTRACTOR'S TOOL PUSHER: Doug Forbes

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
FELT PLUG #4 @ 531'						
PUT 10 SAX CEMENT IN TOP OF SURFACE C.S.G.						

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Clearing To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	8	
TOTAL HOURS	8	8	

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	1055
FEET CUT OFF	1042
PRESENT LENGTH	2441
TON MI. or TRIPS SINCE LAST CUT	427
CUMULATIVE TON MI. or TRIPS	687

NO. OF DAYS FROM SPUD	100
CUMULATIVE ROTATING HRS.	1145 1/4
DAYS SINCE LAST ACCDNT.	129
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	401
DAY TOUR	353
EVENING TOUR	228

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: K. Nolan

WEATHER CONDITIONS: LIGHT SNOW - 18°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555			TD			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12:00	2:00	2		W O C
2:00	2:30		1/2	RUN IN TO FEEL PLUG # 4
2:30	2:45		1/4	FEEL PLUG # 4
2:45	3:30		3/4	LAY DOWN D. P.
3:30	8:00	4	1/2	CLEAN MUD TANKS DRAIN & PUMP.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: B. Williams

WEATHER CONDITIONS: -10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	11:00	3		CLEAN MUD TANKS
11:00	2:00	3		LAY DOWN BOP'S
2:00	4:00	2		WELD PLATE & RUN CEMENT IN TOP OF SURFACE CASING

RIG + CREW RELEASED @ 4.00 P.M. APRIL 2/60

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E. Mill

WEATHER CONDITIONS: -20

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:00	12:00	8		TEAR OUT

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 102

DATE: APRIL 2 - 1960

DAILY DRILLING REPORT

OPERATOR	LOCATION LSD. SEC. TWP. RGE. W.	WELL NAME	No.	PROVINCE
RICHFIELD OIL CORP		ROCORP GRANDVIEW	1	NWT

CONTRACTOR	RIG NO.	DRILL PIPE STRING NO. SIZE	TOOL JOINT	DRILL PIPE GRADE
PETER BAWDEN DRILLING LIMITED	16	4½	6⅜ OD TYPE THD.	

OPERATOR'S REPRESENTATIVE	CONTRACTOR'S TOOL PUSHER
G. B. Brown.	Doug Parker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
FELT PLUG #2 @ 2938'						
PLUG #3		2700	2600	COUST	165 sx	2% CACL2
CMT IN PLACE 8:55 A.M.						

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	—		
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	8	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	1055
FEET CUT OFF	1042
PRESENT LENGTH	2441
TON MI. or TRIPS SINCE LAST CUT	427
CUMULATIVE TON MI. or TRIPS	3687
NO. OF DAYS FROM SPUD	99
CUMULATIVE ROTATING HRS.	1146¼
DAYS SINCE LAST ACCDNT.	128
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	400?
DAY TOUR	352
EVENING TOUR	227

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER R. Nolan

WEATHER CONDITIONS LIGHT SNOW - 20

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555			TD			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	6¹⁵	6 ¼	LAY DOWN DRILL COLLARS & DRILL PIPE (2 & 4½)
6¹⁵	7⁰⁰	¾	RUN IN TO FEEL PLUG #2
7⁰⁰	7¹⁵	¼	FEEL PLUG #2
7¹⁵	8⁰⁰	¾	PULLING OUT TO RUN PLUG #3

Felt plug #2 @ 2930'

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER B Williams

WEATHER CONDITIONS Clear - 10

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555			TD			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	8²⁰	½	PULL OUT TO RUN PLUG
8³⁰	9⁰⁰	½	RUN PLUG #3 & DISPLACE
9⁰⁰	11⁰⁰	1 ½	PULL UP & LAY DOWN P. PE (2 hrs)
11⁰⁰	4⁰⁰	5	STANDING CEMENTED

Plug #3 - 2700'-2600' F.H.D.P. cement 2% CACL mixing time 8 min. mud in 12 min. Cement in place @ 855 am standing Cemented 3 hrs.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Ran 4½" 16.6# open end casing in hole with 36 bbls of mud in 12 min. Cement in place @ 855 am standing Cemented 3 hrs.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER E. Mill

WEATHER CONDITIONS

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
Plug #4	648-548'	ENTERED W/ 110 SX				
Bond	CMT. 3% CACL2	CMT IN PLACE 6:33 P.M.				

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	¼	W.O.C.
4¹⁵	5¹⁰	¾	RUN IN TO FEEL FOR PLUG # 3
5¹⁰	5¹⁵	¼	FEEL FOR PLUG.
5¹⁵	6¹⁵	1	PULL UP TO RUN PLUG #4
6¹⁵	6⁴⁵	½	RUN PLUG #4 & DISPLACE SAME. Limited 8 hrs.
6⁴⁵	12⁰⁰	5 ¼	W.O.C. & LAY DOWN PIPE Bit Limit

Plug #4 648-548 w open hanging @ 548' pumped in 7 bbls with 3% CACL slurry 14 min displaced w 7 bbls in place @ 6.33 pm stand time.

LEFT 8 STDS PIPE IN DERRIC TO FEEL FOR PLUG #4

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
FELT PLUG #3 @ 2583'			

Ran 4½" 16.6# FH.D.P. cmt @ 6.15 pm Cement cont. in time.

REPORT No. 101

DATE: APRIL 1 - 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: P.O. CORP GRANDVIEW | No. 1 | PROVINCE: NWT

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD | TYPE THD. FH | DRILL PIPE GRADE 2-3

OPERATOR'S REPRESENTATIVE: J. B. Brown | CONTRACTOR'S TOOL PUSHER: Lloyd Taylor

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	OILWELL	214P
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
Plug #1		5825	5750	Const	40	IN PLACE 9.10 P.M.
Plug #2		3050	2950	Const	55	IN PLACE 10.50 P.M.

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	8	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1/8
FEET SLIPPED	1055
FEET CUT OFF	1042
PRESENT LENGTH	2441
TON MI. or TRIPS SINCE LAST CUT	323
CUMULATIVE TON MI. or TRIPS	5583
NO. OF DAYS FROM SPUD	98
CUMULATIVE ROTATING HRS.	1145 1/4
DAYS SINCE LAST ACCDNT.	127
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	399
DAY TOUR	351
EVENING TOUR	226

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: H. Holan

WEATHER CONDITIONS: -38

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555			TD			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	8:00	8	RUN VELOCITY SURVEY'S
			Plug #1 – 5825'-5750' Wipers leaving at 5825' pumped in mix @ 8.30 pm mixing time 5 min displaced with 80 bbls mud in 30 min Cement in place at 9.10 pm

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: B Williams

WEATHER CONDITIONS: -15

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555			TD			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	4:00	8	LAY DOWN & DISASEMBLE PACKER & LAY DOWN CORE BBL. & RIG UP CEMENTER
			Plug #2 3050'-2950' with open end of 2½" DP hanging @ 3050' pumped in 55 sax cement cement started mix @ 10.25 pm. displacement time 10 min displaced with 40.5 bbls of mud in 15 min. Cement in place @ 10.50 pm. Used B.J. skid unit. Stands Cemented.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E. Mill

WEATHER CONDITIONS: -20°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555	T.D.					

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:00	6:00	2		W.O. ORDERS.
6:00	8:00	2		RUN IN OPEN END TO RUN PLUGS. 5825-5750 w/ 40 SX CEMENT.
8:00	8:30		½	CIRC
8:30	9:15		¾	RUN PLUG #1 & DISPLACE SAME 5825-5750 w/ 40 SX CEMENT.
9:15	10:15	1		POH OUT 30 STS.
10:15	11:00		¾	RUN PLUG #2 & DISPLACE SAME 3050-2950 w/ 55 SX CEMENT.
11:00	12:00	1		POH OUT OF HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 100 DATE: March 31/60

DAILY DRILLING REPORT

OPERATOR: TICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: TOCORP GRANDVIEW HILLS No. 1
PROVINCE: ALBERTA

CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO. 16
DRILL PIPE STRING NO. SIZE: D 4 1/2
TOOL JOINT: 5 3/4 OD TYPE THD. FH
DRILL PIPE GRADE: 2-3

OPERATOR'S REPRESENTATIVE: C. R. Brown.
CONTRACTOR'S TOOL PUSHER: Doug Lake

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	OILWELL	214P
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8	48 55 54.5	0	548	CONST	600	290 CACL.

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING		2	
RIG MAINTENANCE		1/4	1/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming ~~& Cleaning~~ To Bottom		1/2	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		1/4	
SUB TOTAL			1/4
DAYWORK HOURS	8	8	7 3/4
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	1055
FEET CUT OFF	1042
PRESENT LENGTH	2441
TON MI. or TRIPS SINCE LAST CUT	219
CUMULATIVE TON MI. or TRIPS	5479

NO. OF DAYS FROM SPUD	97
CUMULATIVE ROTATING HRS.	1145 1/4
DAYS SINCE LAST ACCDNT.	126
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	398
DAY TOUR	350
EVENING TOUR	225

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
67	STANDS DP	6107.89 FT.	Drilling or Core Bit No.	~~Cored~~ R 89
1	SNGLS. DP	28.47 FT.	TYPE	WTR
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	7 7/8
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	12036
	SUBS OD	FT.	DEPTH IN	6520
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	
		FT.	FT. REAMED	24
	Kelly Down	35.52 FT.	FT. CORED	
	TOTAL	6544. FT.	CUM. HRS. RUN	6
WT OF STRING		110,000 LBS.	CONDITION	IN

DRILLER: D. Nolan
WEATHER CONDITIONS: -38°

Depth At Beginning of Tour	Drilled This Tour	~~Cored~~ or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6520		24	6544		110/130	10/12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6 1/2		7 3/4
PUMP No. 2	950	5 1/2	61	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
1200	1230		1/2	FINISH IN WI BIT # 89
1230	100		1/2	THAW KELLY OUT OF RAT-HOLE
100	200	1		CLEAN OUT 5' TO TOP OF RATHOLE &
				CIRC HEAVY MUD OUT OF HOLE.
200	800	6.		REAM 6 1/8 TO 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		9.7	9.9	9.8
VISC.		110	125	150
W.L.-C.C.		5.8	7.	7.2
FLTR. CK.		2/32	2/32	2/32
pH		9.	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	150 #		
TANNATHIN	100 #		
GEL	700 #		
SAW DUST	10 sx		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
67	STANDS DP	6107.89 FT.	Drilling or Core Bit No.	89
2	SNGLS. DP	57.43 FT.	TYPE	WTR
12	D.C. OD 6 1/4 OD	371.32 FT.	SIZE	7 7/8
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	12036
	SUBS OD	FT.	DEPTH IN	6520
	BIT OR C.B.	.160 FT.	DEPTH OUT	6555
		FT.	FT. DRILLED	
		FT.	FT. REAMED	35
	Kelly Down	17.56 FT.	FT. CORED	
	TOTAL	6555 FT.	CUM. HRS. RUN	7 1/2
WT OF STRING		108 M LBS.	CONDITION	OUT

DRILLER: L. Williams
WEATHER CONDITIONS: -15°

Depth At Beginning of Tour	Drilled This Tour	~~Cored~~ or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6544		11	6555		120	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6 1/2		7 3/4
PUMP No. 2	950	2 1/2	63	3 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
800	845		3/4	REAM RAT HOLE
845	915		1/2	RIG SERV CHECK BOP'S & SWIVEL
915	1000		3/4	REAM RAT HOLE
1000	1215	2	1/4	CIRC PRIOR TO TEST
1215	215	2		PULL OUT TO RUN D.S.T
215	400	1	3/4	PICK UP TAIL PIPE & RUN IN & MAKEUP PACKER

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.7	9.7		
VISC.	109	133		
W.L.-C.C.	6.6	6.0		
FLTR. CK.	2/32	2/32		
pH	9	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000 #		
DRISCOSE	50 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: E. Mill
WEATHER CONDITIONS: -30°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555		—	6555			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC HOLE	6 1/2		11
PUMP No. 2	CIRC TANKS	5 1/2		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
400	600	2	00	RUN IN W/ PACKER.
600	800	2		TESTING.
800	815		1/4	RIG SERV & CHECK B.O.P.'S
815	11	2	3/4	PULL OUT W/ PACKER
11.00	12 AM	3		& BREAK & LAY DOWN SAME

D.S.T #6. From 5957-5996
I.S.I. - 30 MIN
V.O - 60 "
F.S.I. - 30 "
REC - 60' DRILLING FLUID &
200' OF SALT WATER CUT MUD

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
I.S.I.P	5525#	I.H.P	5050#
F.S.I.P	1850#	F.H.P	2775#

REPORT No. 99

DATE: MARCH. - 30 - 1960

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. Corr Grandview Hills No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE | TOOL JOINT 6 3/4 OD, TYPE THD F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Hoy Parker

PUMPS No.	MANUFACTURER	TYPE
1.	Oil well	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			X
RIG MAINTENANCE			1
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			-
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	8	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	1625
FEET CUT OFF	~~2559~~ 1042
PRESENT LENGTH	2441
TON MI. or TRIPS SINCE LAST CUT	52
CUMULATIVE TON MI. or TRIPS	5260
NO. OF DAYS FROM SPUD	96
CUMULATIVE ROTATING HRS.	1137 3/4
DAYS SINCE LAST ACCDNT.	125
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	224
DAY TOUR	394
EVENING TOUR	349

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: E. Mell

WEATHER CONDITIONS: -40° Cool.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555	—	—	6555			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC HOLE	6 1/2		8
PUMP No. 2	CIRC TANKS	5 1/2		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	8:00	8	LOGGING W/ WELEX

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: B. Nolan

WEATHER CONDITIONS: Sunny -15°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555		TD				

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				8
PUMP No. 2				8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	10:00	2 00	LOGGING BY WELEX
10:00	4:00	6 00	RUN VELOCITY SURVEY BY GSI & WELEX

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1200#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
67	STANDS DP	6107.89 FT.	Drilling or Core Bit No.	89
	SNGLS. DP	FT.	TYPE	WTR
12	D.C. OD	371.52 FT.	SIZE	7 7/8
	OD	FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	12036
	STB BODY OD	FT.	DEPTH IN	6520
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	39.99 FT.	FT. CORED	
	TOTAL	6520.00 FT.	CUM. HRS. RUN	
WT OF STRING		112M LBS.	CONDITION	

DRILLER: B. Williams

WEATHER CONDITIONS: -32° WARM

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555						

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	9:00	5	LOGGING VELOCITY SURVEY BY GSI & WELEX
9:00	10:00	1	SLIP + CUT 88' DRLG LINE
10:00	12:00	2	RUN IN W/ BIT # 89 TO REAM RATHOLE

Last while reaming velocity survey

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1200#		

REPORT No. 98 DATE: MARCH 29, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: B.O. CORP. GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD, TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: A. R. Brown | CONTRACTOR'S TOOL PUSHER: Dave Lanka

PUMPS

No.	MANUFACTURER	TYPE
1.	Dilwell	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	8	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES SIZE	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	223
DAY TOUR	396
EVENING TOUR	348

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
STANDS	DP	FT.
SNGLS.	DP	FT.
D.C.	OD	FT.
	OD	FT.
RMR BODY	OD	FT.
STB BODY	OD	FT.
SUBS	OD	FT.
BIT OR C.B.		FT.
		FT.
Kelly Down		FT.
TOTAL		FT.
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E. Mell

WEATHER CONDITIONS: Cool – 42°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555	—	—	6555			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC HOLE	6½		8
PUMP No. 2	CIRC TANKS	5½		8

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
16:00	8:00	8		LOGGING W/WELEX.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10 SAX.		
Caustic	100#		

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
STANDS	DP	FT.
SNGLS.	DP	FT.
D.C.	OD	FT.
	OD	FT.
RMR BODY	OD	FT.
STB BODY	OD	FT.
SUBS	OD	FT.
BIT OR C.B.		FT.
		FT.
Kelly Down		FT.
TOTAL		FT.
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: R. Nolan

WEATHER CONDITIONS: – 140

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555			TD			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
8:00	4:00			LOGGING BY WELEX.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
STANDS	DP	FT.
SNGLS.	DP	FT.
D.C.	OD	FT.
	OD	FT.
RMR BODY	OD	FT.
STB BODY	OD	FT.
SUBS	OD	FT.
BIT OR C.B.		FT.
		FT.
Kelly Down		FT.
TOTAL		FT.
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: B. Williams

WEATHER CONDITIONS: – 34

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC HOLE	6½		8
PUMP No. 2	CIRC TANKS	5½		8

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
4:00	12:00			LOGGING W/ WELEX

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10 SAX		
Caustic	100#		

REPORT No. 97 DATE: MARCH 28, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. CORP. GRANDVIEW HILLS No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16. | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD | TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. P. Bacon | CONTRACTOR'S TOOL PUSHER: R. Porter

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Mom	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	8	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1/16
FEET SLIPPED	937
FEET CUT OFF	954
PRESENT LENGTH	2529
TON MI. or TRIPS SINCE LAST CUT	312
CUMULATIVE TON MI. or TRIPS	5208
NO. OF DAYS FROM SPUD	94
CUMULATIVE ROTATING HRS.	1137 3/4
DAYS SINCE LAST ACCDNT.	123
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	222
DAY TOUR	395
EVENING TOUR	347

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
66	STANDS DP	6016.20 FT.	Drilling or Core Bit No.	4-17
2	SNGLS. DP	61.11 FT.	TYPE	KOEBEL
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	6 1/8
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	4440
	SUBS OD	FT.	DEPTH IN	6520
	BIT OR C.B.	59.37 FT.	DEPTH OUT	
	JARS	7.03 FT.	FT. DRILLED	
	Kelly Down	25.77 FT.	FT. REAMED	
	TOTAL	6541.00 FT.	FT. CORED	21
	WT OF STRING	112,000 LBS.	CUM. HRS. RUN	8
	DRILLER	L. Mill	CONDITION	IN
	WEATHER CONDITIONS	-34°		

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6520		21	6541		80-90	4-6-8
						10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		8
PUMP No. 2	1300	5½	49	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12 00	8 00	8	CUTTING & CORE # 17

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	117	115	115	113
W.L.-C.C.	6.2	6.2	6.4	6.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.	9.	1.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
66	STANDS DP	6016.20 FT.	Drilling or Core Bit No.	4-17
2	SNGLS. DP	61.11 FT.	TYPE ◇	KOEBEL
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	6 1/8
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	4440
	SUBS OD	FT.	DEPTH IN	6520
	BIT OR C.B.	59.37 FT.	DEPTH OUT	
	JARS	7.03 FT.	FT. DRILLED	
	Kelly Down	39.17 FT.	FT. REAMED	
	TOTAL	655,00 FT.	FT. CORED	35
	WT OF STRING	112,000 LBS.	CUM. HRS. RUN	15 1/4
	DRILLER	P. Holan	CONDITION	PULLING
	WEATHER CONDITIONS	SUNNY -15°		

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6541	FT	14	6555	TD?	90	10
					95	12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½	—	7¾
PUMP No. 2	1200	5½	49	7¼

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8 00	3 15	7 1/4	CUTTING CORE # 17
3 15	4 00	3/4	BREAK CORE LOOSE START OUT.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	
VISC.	116	118	125	
W.L.-C.C.	6.	6.2		
FLTR. CK.	2/32	2/32		
pH	9.	9.		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Fuel used 510

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
66	STANDS DP	6016.20 FT.	Drilling or Core Bit No.	4-17
3	SNGLS. DP	61.11 FT.	TYPE	KOEBEL
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	6 1/8
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	4440
	SUBS OD	FT.	DEPTH IN	6520
	~~BIT~~ OR C.B.	59.37 FT.	DEPTH OUT	6555
	JARS	7.03 FT.	FT. DRILLED	
	Kelly Down	39.17 FT.	FT. REAMED	
	TOTAL	6555.00 FT.	FT. CORED	35
	WT OF STRING	112 M LBS.	CUM. HRS. RUN	15 1/4
	DRILLER	B. Williams	CONDITION	GOOD
	WEATHER CONDITIONS	Clear -25		

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6555			6555			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		7¾
PUMP No. 2	CIRC HOLE	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4 00	5 15	1 1/4	PULL CORE # 17
5 15	6 00	3/4	RECOVER CORE & SERV BBL
6 00	12 00	6	LOGGING W/ WEREX
			(LOST 20 BBLS MUD TO FORMATION WHILE LOGGING)

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	18 SAX		

REPORT No. 96

DATE: MARCH 27, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. CORP. GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16. | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD | TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: L.R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Carbon

PUMPS No.	MANUFACTURER	TYPE
1.	Oil well	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J55	0	598			

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6½	5¾	1¼
TRIPPING	1¼	2	3½
RIG MAINTENANCE	¼	1¼	1¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			2
CONDITIONING HOLE			1
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			1
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

NO.	DRILLING ASSEMBLY		
67	STANDS DP	6107.89	FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	17.99	FT.
	TOTAL	6498.00	FT.

WT OF STRING 110,000 LBS.
DRILLER E. Mill
WEATHER CONDITIONS Cool -28

BIT RECORD	
Drilling or Core Bit No	87
TYPE	M4L
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	378603
DEPTH IN	6440
DEPTH OUT	6498
FT. DRILLED	58
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	16¾
CONDITION	HOISTING

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6476	22		6498		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		6½
PUMP No. 2	950	5½	64	6½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	RIG SERV & CHECK B.O.P.
12¹⁵	6⁴⁵	6	½	DRILLING 7⅞" HOLE
6⁴⁵	8⁰⁰	1	¼	PULL OUT

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	T
VISC.	125	120	120	
W.L.-C.C.	6.6	6.6	6.8	R
FLTR. CK.	2/32	2/32	2/32	i
pH	9.	9.	9.	p
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
67	STANDS DP	6107.89	FT.
	SNGLS. DP	✓	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	36.88	FT.
	TOTAL	6517.00	FT.

WT OF STRING 110,000 LBS.
DRILLER A. Stolan
WEATHER CONDITIONS SUNNY +5

BIT RECORD		
Drilling or Core Bit No.	87	88
TYPE	M4L	M4L
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	378603	378608
DEPTH IN	6440	6498
DEPTH OUT	6498	
FT. DRILLED	58	19
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	16 3/4	5 3/4
CONDITION	Dull	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6498	19		6517		85	25/28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANK	6½		6
PUMP No. 2	1000	5½	64	5¾

DEVIATION RECORD: 6350 — 3/4°

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	RIG SERV. CHECK BOP'S
8¹⁵	10¹⁵	2		FINISH TRIP FOR BIT # 88
10¹⁵	4⁰⁰	5	¾	DRILL 7⅞" HOLE
				USED 750 FUEL LAST 24 HRS

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		9.9	9.9	9.9
VISC.		120	118	114
W.L.-C.C.		6.2	6.2	6.
FLTR. CK.		2/32	2/32	2/32
pH		9.	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	15 #		
TANNATHIN	50 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
66	STANDS DP	6016.20	FT.
2	SNGLS. DP	61.11	FT.
	D.C. OD		FT.
12	OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
JARS	OD	7.03	FT.
	BIT OR C.B.	59.37	FT.
			FT.
	Kelly Down	4.77	FT.
	TOTAL	6520.00	FT.

WT OF STRING 112M LBS.
DRILLER L. Williams
WEATHER CONDITIONS CLEAR -25

BIT RECORD	4-17	
Drilling or Core Bit No.	88	89
TYPE	M4L	D
SIZE	7 7/8	6 1/8
NOZZ. SIZE	11/16	ROEBEL
SERIAL No.	378608	44
DEPTH IN	6498	6520
DEPTH OUT	6520	
FT. DRILLED	22	
FT. REAMED	PULL	
FT. CORED	TO CORE	
CUM. HRS. RUN	6	0
CONDITION	FAIR	GOOD

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6517	3		6520		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANK	6½		7¾
PUMP No. 2	950 1175	5½	64 54	8¼

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	RIG SERV CHECK BOP'S
4¹⁵	4³⁰		¼	DRLG 7⅞ HOLE
4³⁰	6³⁰	2		DRLG OFF SQUAT & CIRC PRIOR TO TRIP FOR CORE BBL
6³⁰	8⁴⁵	2	¼	Measure Out of Hole
8⁴⁵	9⁴⁵	1		PICK UP CORE BBL & JARS — PIPE TALLY 6107.89
9⁴⁵	11⁰⁰	1	¼	RUN IN W/ CORE BBL — PIPE MEASUREMENTS 6107.17
11⁰⁰	12⁰⁰	1		BREAK CIRC & CIRC PRIOR TO & CORING — DIFF .72
				NO CORRECTION

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.8			
VISC.	114			
W.L.-C.C.	6.2			
FLTR. CK.	4/32			
pH	9			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	15 #		
Quebracho	50 #		

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6
SIZE	1 1/8
FEET SLIPPED	937
FEET CUT OFF	954
PRESENT LENGTH	2529
TON MI. or TRIPS SINCE LAST CUT	260
CUMULATIVE TON MI. or TRIPS	5156

NO. OF DAYS FROM SPUD	93
CUMULATIVE ROTATING HRS.	1122½
DAYS SINCE LAST ACCDNT.	122
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	221
DAY TOUR	394
EVENING TOUR	346

REPORT No. 95 DATE: MARCH 26, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. CORP. GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD | TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: D. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Lanter

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil Well	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J-55	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	3½	7¾
TRIPPING		3¼	
RIG MAINTENANCE	¼	1¼	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1/8
FEET SLIPPED	937
FEET CUT OFF	954
PRESENT LENGTH	2529
TON MI. or TRIPS SINCE LAST CUT	52
CUMULATIVE TON MI. or TRIPS	4948
NO. OF DAYS FROM SPUD	92
CUMULATIVE ROTATING HRS.	1110
DAYS SINCE LAST ACCDNT.	121
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	220
DAY TOUR	393
EVENING TOUR	345

MORNING TOUR

NO.	DRILLING ASSEMBLY		
66	STANDS DP	6016.20	FT.
1	SNGLS. DP	30.56	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	18.12	FT.
	TOTAL	6437.00	FT.
WT OF STRING		110,000	LBS.

DRILLER: L. Mill

WEATHER CONDITIONS: F4°

BIT RECORD	
Drilling or Core Bit No	86
TYPE	W7
SIZE	7⅞
NOZZ. SIZE	11/16
SERIAL No.	3700
DEPTH IN	6393
DEPTH OUT	
FT. DRILLED	44
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	15¼
CONDITION	1N

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6413	24		6437		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		7¾
PUMP No. 2	950	5½	64	7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	12¹⁵	¼	RIG SERV. & CHECK B.O.P's
12¹⁵	8⁰⁰	7¾	DRILLING 7⅞" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	115	117	115	120
W.L.-C.C.	6.2	7.	6.4	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
66	STANDS DP	6016.20	FT.
1	SNGLS. DP	30.56	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	30.12	FT.
	TOTAL	6449.00	FT.
WT OF STRING		110,000	LBS.

DRILLER: H Nolan

WEATHER CONDITIONS: Sunny Mildr +10°

BIT RECORD		
Drilling or Core Bit No.	86	87
TYPE	W 7	M44
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	3700	78603
DEPTH IN	6393	6440
DEPTH OUT	6440	
FT. DRILLED	47	9
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	16¼	2½
CONDITION	Dull	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6437	12		6449		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	TANKS	6½		4
PUMP No. 2	950	5½	64	3½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	9⁰⁰	1	DRILL 7 7/8" HOLE
9⁰⁰	9¹⁵	¼	RIG SERV CHECK BOP's
9¹⁵	11⁰⁰	1 3/4	PULL OUT W/ BIT # 86
11⁰⁰	12⁰⁰	1	SLIP 94' DRLG LINE CUT 110' DRLGLINE
12⁰⁰	1³⁰	1½	RUN IN W/ BIT # 87
1³⁰	4⁰⁰	2½	DRILL 7 7/8" HOLE
			760 FUEL USED IN 24 HRS

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				9.9
VISC.				120
W.L.-C.C.				6
FLTR. CK.				2/32
pH				9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
MAGCOBAR	300 SAX		
SPERSENE	100#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
66	STANDS DP	6016.20	FT.
2	SNGLS. DP	61.11	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	26.57	FT.
	TOTAL	6476.00	FT.
WT OF STRING		110M	LBS.

DRILLER: B. Williams

WEATHER CONDITIONS: Clear +6°

BIT RECORD	
Drilling or Core Bit No.	87
TYPE	M44
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	78603
DEPTH IN	6440
DEPTH OUT	
FT. DRILLED	36
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	10¼
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6449	27		6476		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	950	5½	64	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	¼	RIG SERV CHECK BOP's
4¹⁵	12⁰⁰	7¾	DRLG 7⅞ HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	114	113	120	120
W.L.-C.C.	6.2	6.4	6.4	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2000#		
CAUSTIC	15"		
TANNATHIN	50"		
SPERSENE	50"		

REPORT No. 94

DATE: MARCH 25, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD | TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. B. Brown | CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil well	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			7½
TRIPPING		1½	¼
RIG MAINTENANCE		½	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL		2	
DAYWORK HOURS	8	6	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 2
NO. OF LINES 6 SIZE 1/8
FEET SLIPPED 843
FEET CUT OFF 844
PRESENT LENGTH 3639
TON MI. or TRIPS SINCE LAST CUT 249
CUMULATIVE TON MI. or TRIPS 4844

NO. OF DAYS FROM SPUD 91
CUMULATIVE ROTATING HRS. 1091
DAYS SINCE LAST ACCDNT. 120
DRILLER ACCDNT. FREE DAYS

MORNING TOUR 219
DAY TOUR 392
EVENING TOUR 344

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	5926.63 FT.	Drilling or Core Bit No	
2	SNGLS. DP	58.97 FT.	TYPE	
	D.C. OD	FT.	SIZE	
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	36.28 FT.	FT. CORED	
	TOTAL	6393.00 FT.	CUM. HRS. RUN	
WT OF STRING	119,000 LBS.		CONDITION	

DRILLER: E. Mill
WEATHER CONDITIONS: -18

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6393	—		6393			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	8:00	8	LOGGING BY WELEX

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	5926.63 FT.	Drilling or Core Bit No.	86
2	SNGLS. DP	58.97 FT.	TYPE	W7
	D.C. OD	FT.	SIZE	7 7/8
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	3700
	STB BODY OD	FT.	DEPTH IN	6393
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	35.28 FT.	FT. CORED	
	TOTAL	6393.00 FT.	CUM. HRS. RUN	
WT OF STRING	— LBS.		CONDITION	

DRILLER: H. Holan
WEATHER CONDITIONS: -20

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6393			6393			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	2:00	6	LOGGING BY WELEX
2:00	2:30	½	SLIP 22' DRLG LINE
2:30	4:00	1½	RUN IN W/ BIT # 86

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
66	STANDS DP	6016.20 FT.	Drilling or Core Bit No.	86
	SNGLS. DP	FT.	TYPE	W-7
	D.C. OD	FT.	SIZE	7 7/8
12	D.C. OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	3700
	STB BODY OD	FT.	DEPTH IN	6393
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	20
		FT.	FT. REAMED	
	Kelly Down	24.68 FT.	FT. CORED	
	TOTAL	6413.08 FT.	CUM. HRS. RUN	7½
WT OF STRING	109M LBS.		CONDITION	1M

DRILLER: L. Williams
WEATHER CONDITIONS: Clear +8

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6393	20		6413		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		7¾
PUMP No. 2	950	5½	63	7½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	4:15	¼	FINISH IN W/ BIT
4:15	4:30	¼	RIG SERV CHECK BOP'S
4:30	12:00	7½	DRLG 7 7/8 HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	C	9.9	9.9	9.9
VISC.	1	120	114	120
W.L.-C.C.	R	6.4	6.4	6.4
FLTR. CK.	E	2/32	2/32	2/32
pH	HRS	9	9	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	30#		
SHEBRA HOSE	50#		
GEL	4000#		
TANNATHIN	50#		
SPERSENE	50#		

REPORT No. 93

DATE: MARCH 24, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.D. CORP GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD, TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown. | CONTRACTOR'S TOOL PUSHER: Norm Parker

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J-55	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3	13¼	4
TRIPPING	3¼		1¾
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS			
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			1
Reaming & Cleaning To Bottom	1¼		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			1
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	821
FEET CUT OFF	844
PRESENT LENGTH	2639
TON MI. or TRIPS SINCE LAST CUT	199
CUMULATIVE TON MI. or TRIPS	4794
NO. OF DAYS FROM SPUD	90
CUMULATIVE ROTATING HRS.	1083½
DAYS SINCE LAST ACCDNT.	119
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	218
DAY TOUR	391
EVENING TOUR	343

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	5926.63 FT.	Drilling or Core Bit No	84 / 85
1	SNGLS. DP	29.60 FT.	TYPE	M4L / H7W
	D.C. OD	FT.	SIZE	7⅞ / 7⅞
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16 / 11/16
	RMR BODY OD	FT.	SERIAL No.	378631 / 153318
	STB BODY OD	FT.	DEPTH IN	6274 / 6354
	SUBS OD	FT.	DEPTH OUT	6354 /
	BIT OR C.B.	.60 FT.	FT. DRILLED	80 / 8
		FT.	FT. REAMED	/ 17¾ HR. 1¼
	Kelly Down	33.65 FT.	FT. CORED	/
	TOTAL	6362.00 FT.	CUM. HRS. RUN	18 / 2¼
WT OF STRING		110,000 LBS.	CONDITION	006. Dull Loose / IN
DRILLER	E. Mill			
WEATHER CONDITIONS	−8°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6350	12		6362		85	20-28
6337		17	6354	O.O.B. HOLE	120	2

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		3
PUMP No. 2	950	5½	64	3

DEVIATION RECORD: DEPTH 6350 DEV. ¾° DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time	REMARKS
12 00	12 45	¾	DRILLING 7⅞" HOLE
12 45	1 00	¼	RIG SERV. & CHECK B.O.P.
1 00	1 15	¼	SURVEY
1 15	4 30	3 ¼	TRIP FOR BIT
4 30	5 45	1 ¼	BREAK CIRC & REAM O.O.B. HOLE FROM 6337 TO 6354
5 45	8 00	2 ¼	DRILLING 7⅞" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9		9.9	9.9
VISC.	50		132	117
W.L.-C.C.	8		6.2	6.6
FLTR. CK.			2/32	2/32
pH			9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	5926.63 FT.	Drilling or Core Bit No.	85
2	SNGLS. DP	289.7 FT.	TYPE	H7W
	D.C. OD	FT.	SIZE	7⅞
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	153318
	STB BODY OD	FT.	DEPTH IN	6354
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	27
		FT.	FT. REAMED	
	Kelly Down	23.28 FT.	FT. CORED	
	TOTAL	6381.00 FT.	CUM. HRS. RUN	10
WT OF STRING		110,000 LBS.	CONDITION	IN
DRILLER	R. Nolan			
WEATHER CONDITIONS	Sunny Light Wind −5°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6362	19		6381	"HARD"	85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		5
PUMP No. 2	950	5½	64	7¾

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time	REMARKS
8 00	8 15	¼	RIG SERV CHECK BOP'S
8 15	4 00	7 ¾	DRILL 7⅞" HOLE.
			760 GALS DIESEL USED 24 HRS

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.8	9.9
VISC.	115	112	114	112
W.L.-C.C.	6.6	6.4	6.4	6.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.	9.	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	5926.63 FT.	Drilling or Core Bit No.	85
2	SNGLS. DP	58.97 FT.	TYPE	H7W
	D.C. OD	FT.	SIZE	7⅞
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	153318
	STB BODY OD	FT.	DEPTH IN	6354
	SUBS OD	FT.	DEPTH OUT	6393
	BIT OR C.B.	.60 FT.	FT. DRILLED	39
		FT.	FT. REAMED	
	Kelly Down	35.28 FT.	FT. CORED	
	TOTAL	6393.00 FT.	CUM. HRS. RUN	14
WT OF STRING		110M LBS.	CONDITION	FAIR LOGGG
DRILLER	B. Williams			
WEATHER CONDITIONS	Clear −10			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6381	12		6393	"HARDER"	85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		7¾
PUMP No. 2	950	5½	64	5

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time	REMARKS
4 00	4 15	¼	RIG SERV CHECK BOP'S
4 15	8 15	4	DRLG 7⅞ HOLE (LOST 15 BBLS MUD TO FORMATION)
8 15	9 15	1	CIRC PRIOR TO LOGGING W/ WELEX
9 15	11 00	1 ¾	PULL OUT TO LOG
11 00	12 00	1	RIGGING UP & LOGGING W/ WELEX

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	T
VISC.	114	117	116	R
W.L.-C.C.	6.4	6.2	6.2	I
FLTR. CK.	2/32	2/32	2/32	P
pH	9	9	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	15#		
TANNATHIN	50#		
Lig	15 SAX		
SAWDUST	13 SAX		

REPORT No. 92 DATE: MARCH 23, 60.

DAILY DRILLING REPORT

OPERATOR: BIGFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: B.O. CORP. GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD, TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: O. J. Brown | CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5#	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	2¾	7	7¾
TRIPPING	3½		
RIG MAINTENANCE	1¾	1½	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD		½	
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION		1½	
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	821
FEET CUT OFF	844
PRESENT LENGTH	2639
TON MI. or TRIPS SINCE LAST CUT	30
CUMULATIVE TON MI. or TRIPS	4645
NO. OF DAYS FROM SPUD	89
CUMULATIVE ROTATING HRS.	1068 ¾
DAYS SINCE LAST ACCDNT.	118
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	217
DAY TOUR	390
EVENING TOUR	342

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
64	STANDS DP	5835.60 FT.	Drilling or Core Bit No.	83	84
2	SNGLS. DP	60.89 FT.	TYPE	M4L	M4L
	D.C. OD	FT.	SIZE	7⅞	7⅞
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	378633	378631
	STB BODY OD	FT.	DEPTH IN	6205	6274
	SUBS OD	FT.	DEPTH OUT	6274	
	BIT OR C.B.	.60 FT.	FT. DRILLED	69	11
		FT.	FT. REAMED		
	Kelly Down	16.39 FT.	FT. CORED		
	TOTAL	6285.00 FT.	CUM. HRS. RUN	16¼	2½
WT OF STRING		110,000 LBS.	CONDITION	Dull	IN

DRILLER: L. Mill

WEATHER CONDITIONS: 13°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6271	14		6285		85	20-28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	46	9¼
PUMP No. 2	925	5½	64	1¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	DRILLING 7⅞" HOLE.
12¹⁵	12³⁰		¼	RIG SERV. & CHECK B.O.P.
12³⁰	2³⁰	2		POH OUT W/BIT
2³⁰	4⁰⁰	1	½	SLIP & CUT LINE SLIP 22' CUT 44'
4⁰⁰	5³⁰	1	½	RUN IN W/BIT # 84
5³⁰	8⁰⁰	2	½	DRILLING 7⅞" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T			9.9
VISC.	T			117
W.L.-C.C.	13			6
FLTR. CK.		1		2/32
pH		P		9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	5926.63 FT.	Drilling or Core Bit No.	84
	SNGLS. DP	✓ FT.	TYPE	M4L
	D.C. OD	FT.	SIZE	7⅞
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	378631
	STB BODY OD	FT.	DEPTH IN	6274
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	46
		FT.	FT. REAMED	
	Kelly Down	21.25 FT.	FT. CORED	
	TOTAL	6320.00 FT.	CUM. HRS. RUN	9½
WT OF STRING		110,000 LBS.	CONDITION	IN.

DRILLER: R. Nolan

WEATHER CONDITIONS: Sunny -2°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6285	35		6320		85	28.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		7¾
PUMP No. 2	975 750	5½	64 59	7

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8³⁰		½	RIG SERV CHECK BOP'S
8³⁰	11⁰⁰	2	½	DRILL 7⅞" HOLE
11⁰⁰	11³⁰		½	MIX LOSS CIRC MATERIAL BUILDING VOLUME
11³⁰	4⁰⁰	4	½	DRILL 7⅞" HOLE
				LOST 75 BBL'S MUD IN FORMATION @ 6295
				757 Gal Diesel consumed in last 24 HRS.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.	10.	9.9	9.4
VISC.	115	116	120	105
W.L.-C.C.	6.2	6.	6 2	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.	9.	9	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	5200 #		
SAW DUST	28 sks.		
CAUSTIC	30 #		
QUEBRACHO	100 #		

EVENING TOUR.

NO.	DRILLING ASSEMBLY		BIT RECORD	
65	STANDS DP	5926.63 FT.	Drilling or Core Bit No.	84
1	SNGLS. DP	29.60 FT.	TYPE	M4L
	D.C. OD	FT.	SIZE	7⅞
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	378631
	STB BODY OD	FT.	DEPTH IN	6274
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	76
		FT.	FT. REAMED	
	Kelly Down	21.65 FT.	FT. CORED	
	TOTAL	6350 FT.	CUM. HRS. RUN	17¼
WT OF STRING		110 M LBS.	CONDITION	IN

DRILLER: B. Williams

WEATHER CONDITIONS: Clear & C—

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6320	30		6350		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		7¾
PUMP No. 2	975 1000	5½	63	7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	RIG SERV CHECK BOP'S
4¹⁵	12⁰⁰	7	¾	DRLG 7⅞ HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	127	125	142	130
W.L.-C.C.	5.8	6.4	6.6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1800 #		
CAUSTIC	15 #		
QUEBRACHO	50 #		

REPORT No. 91

DATE: MARCH 22, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP.
LOCATION: LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP. GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD, TYPE THD. F.H.
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Larson

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J-55	0	598			

TIME DISTRIBUTION — HOURS

	Morn	Day	Eve
DRILLING	3¾	7¾	6¼
TRIPPING	3¼		
RIG MAINTENANCE	½	1¼	3¼
RIG REPAIRS			
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	¼		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1/8
FEET SLIPPED	799
FEET CUT OFF	800
PRESENT LENGTH	2683
TON MI. or TRIPS SINCE LAST CUT	334
CUMULATIVE TON MI. or TRIPS	4546
NO. OF DAYS FROM SPUD	88
CUMULATIVE ROTATING HRS.	105¼
DAYS SINCE LAST ACCDNT.	117
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	216
DAY TOUR	389
EVENING TOUR	341

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
63	STANDS DP	5743.54 FT.	Drilling or Core Bit No	82 / 83
2	SNGLS. DP	61.56 FT.	TYPE	M4L / M4L
	D.C. OD	FT.	SIZE	7 7/8 / 7 7/8
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16 / 11/16
	RMR BODY OD	FT.	SERIAL No.	378633 / 378633
	STB BODY OD	FT.	DEPTH IN	6156 / 6205
	SUBS OD	FT.	DEPTH OUT	6205
	BIT OR C.B.	.60 FT.	FT. DRILLED	49 / 3
		FT.	FT. REAMED	
	Kelly Down	30.78 FT.	FT. CORED	
	TOTAL	6208.00 FT.	CUM. HRS. RUN	14 3/4 / 1
WT OF STRING		166,000 LBS.	CONDITION	Dull / IN

DRILLER: E. Mell
WEATHER CONDITIONS: -12°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6195	13		6208		85	28-20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	Circ 700	6½		4
PUMP No. 2	800	5½	65	3¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6200	1½°							

From	To	Elapsed Time		REMARKS
12:00	12:15		¼	Rig Serv. & Check B.O.P.'s
12:15	3:00	2	¾	Drilling 7⅞" Hole
3:00	3:15		¼	Survey
3:15	5:15	2		Pull out w/Bit.
5:15	5:30		¼	Check Blind Rams
5:30	6:45	1	¼	Run in w/Bit #83
6:45	7:00		¼	Break Circ & Clean Out To Bottom.
7:00	8:00	1		Drilling 7⅞" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.		T	10
VISC.	140	T		150
W.L.-C.C.	6.4		B	5.6
FLTR. CK.	2/32	B		2/32
pH	9.		P	9
SD. CONT.		P		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
64	STANDS DP	5835.60 FT.	Drilling or Core Bit No.	83
	SNGLS. DP	FT.	TYPE	M4L
	D.C. OD	FT.	SIZE	7 7/8
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	378633
	STB BODY OD	FT.	DEPTH IN	6205
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	35
		FT.	FT. REAMED	
	Kelly Down	32.28 FT.	FT. CORED	
	TOTAL	6240.00 FT.	CUM. HRS. RUN	8 3/4
WT OF STRING		106,000 LBS.	CONDITION	IN

DRILLER: B. Holan
WEATHER CONDITIONS: CLOUDY, 0°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6208	32		6240		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	2¼
PUMP No. 2	800	5½	65	5½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	8:15		¼	Rig Serv Check BOP's
8:15	4:00	7	¾	Drill 7⅞" Hole

760 Gal Diesel Consumed in Last 24 hrs.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	10.	10.	10
VISC.	125	123	120	115
W.L.-C.C.	6.4	6.4	6.0	5.8
FLTR. CK.	3/32	3/32	2/32	2/32
pH	9.	9.	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
64	STANDS DP	5835.60 FT.	Drilling or Core Bit No.	83
1	SNGLS. DP	30.47 FT.	TYPE	M4L
12	D.C. OD	371.52 FT.	SIZE	7 7/8
	OD	FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	378633
	STB BODY OD	FT.	DEPTH IN	6205
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	66
		FT.	FT. REAMED	
	Kelly Down	32.81 FT.	FT. CORED	
	TOTAL	6271.00 FT.	CUM. HRS. RUN	16
WT OF STRING		107M LBS.	CONDITION	IN

DRILLER: L. Williams
WEATHER CONDITIONS: Snowy -20°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6240	31		6271		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	50	6
PUMP No. 2	800	5½	64	2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:00	5:00	1		Drlg 7⅞ Hole
5:00	5:45		¾	Rig Serv Check BOP's Work on Pump
5:45	12:00	6	¼	Drlg 7⅞ Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	112	112	114	107
W.L.-C.C.	5.8	5.8	6.2	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
25 Sack Weight Material			

REPORT No. 90

DATE: MARCH 21, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. CORP. GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Conlee

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	A-14P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J-55	0	598			

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	4¼	7¾
TRIPPING		3	
RIG MAINTENANCE	¼	½	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		¼	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

DRILLING ASSEMBLY

NO.			
63	STANDS DP	5743.54	FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	40.34	FT.
	TOTAL	6156.00	FT.
WT OF STRING		103,000	LBS.

BIT RECORD

Drilling or Core Bit No	81
TYPE	W7
SIZE	7⅞
NOZZ. SIZE	11/16
SERIAL No.	4677
DEPTH IN	6105
DEPTH OUT	
FT. DRILLED	51
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	16¾
CONDITION	IN

DRILLER: E. Mill

WEATHER CONDITIONS: -18°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6132	24		6156		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	50	7¼
PUMP No. 2	CIRC TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	12¹⁵	¼	RIG SERV. & CHECK BOP.
12¹⁵	8⁰⁰	7 ¾	DRILLING 7⅞" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	10.	10
VISC.	110	112	113	112
W.L.-C.C.	6.6	6.4	6.2	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.	9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
63	STANDS DP	5743.54	FT.
1	SNGLS. DP	31.34	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS / OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	24.00	FT.
	TOTAL	6171.00	FT.
WT OF STRING		104,000	LBS.

BIT RECORD

Drilling or Core Bit No.	81	82
TYPE	W7	M4L
SIZE	7⅞	7⅞
NOZZ. SIZE	11/16	11/16
SERIAL No.	4677	378623
DEPTH IN	6105	6156
DEPTH OUT	6156	
FT. DRILLED	51	15
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	16¾	4¼
CONDITION	Dull	IN.

DRILLER: A. Nolan

WEATHER CONDITIONS: Sunny -5°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6156	15		6171		85	20-28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	50	4¼
PUMP No. 2	CIRC TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6060	1°		(TOTCO RUN	IN)				

From	To	Elapsed Time	REMARKS
8⁰⁰	8¹⁵	¼	RIG SERV, CHECK BOP'S
8¹⁵	10⁰⁰	1 ¾	HOIST BIT # 81
10⁰⁰	10¹⁵	¼	SLIP 22' DRLG LINE
10¹⁵	11³⁰	1 ¼	RUN IN W/ BIT # 82
11³⁰	11⁴⁵	¼	CLEAN OUT TO BOTTOM
11⁴⁵	4⁰⁰	4 ¼	DRILL 7⅞" HOLE
			710 Gal Diesel Consumed last 24 hrs

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT			10.	10.
VISC.			117	115
W.L.-C.C.			5.6	6.
FLTR. CK.			2/32	2/32
pH			9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
CAUSTIC	15#		
TANNATHIN	50#		

EVENING TOUR

DRILLING ASSEMBLY

NO.			
63	STANDS DP	5743.54	FT.
2	SNGLS. DP	61.56	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	18.78	FT.
	TOTAL	6195.00	FT.
WT OF STRING		106 M	LBS.

BIT RECORD

Drilling or Core Bit No.	82
TYPE	M4L
SIZE	7⅞
NOZZ. SIZE	11/16
SERIAL No.	378623
DEPTH IN	6156
DEPTH OUT	
FT. DRILLED	39
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	12
CONDITION	IN

DRILLER: B. Williams

WEATHER CONDITIONS: -10

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6171	24		6195		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	50	5¼
PUMP No. 2	CIRC TANKS	5½	64	2½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	¼	RIG SERV CHECK BOP'S
4¹⁵	12⁰⁰	7 ¾	DRLG 7⅞ HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10.	10
VISC.	140	127	127	135
W.L.-C.C.	6	6	6.2	6.6
FLTR. CK.	3/32	2/32	2/32	2/32
pH	9	9	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES 6 SIZE	1⅛
FEET SLIPPED	799
FEET CUT OFF	800
PRESENT LENGTH	2683
TON MI. or TRIPS SINCE LAST CUT	235
CUMULATIVE TON MI. or TRIPS	4447
NO. OF DAYS FROM SPUD	87
CUMULATIVE ROTATING HRS.	1032½
DAYS SINCE LAST ACCDNT.	116
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	215
DAY TOUR	388
EVENING TOUR	340

REPORT No. 89

DATE: MARCH 20, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS #1 — No. 1 — PROVINCE: NWT
CONTRACTOR: PETER BAWDEN DRILLING LIMITED — RIG NO. 16
DRILL PIPE STRING NO. SIZE 4½ — TOOL JOINT 5¾ OD — TYPE THD. FH
DRILL PIPE GRADE: E
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J55	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	14½	7¾
TRIPPING		3	
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		¼	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL		8	8
DAYWORK HOURS		1	
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	777
FEET CUT OFF	800
PRESENT LENGTH	2683
TON MI. or TRIPS SINCE LAST CUT	141
CUMULATIVE TON MI. or TRIPS	4353
NO. OF DAYS FROM SPUD	86
CUMULATIVE ROTATING HRS.	1012¾
DAYS SINCE LAST ACCDNT.	115
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	329
DAY TOUR	214
EVENING TOUR	387

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
62	STANDS DP	5653.92 FT.	Drilling or Core Bit No	80
1	SNGLS. DP	30.76 FT.	TYPE	W7R
12	D.C. 6¼ OD	371.52 FT.	SIZE	7⅞
	OD	FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	65432
	STB BODY OD	FT.	DEPTH IN	6062
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	33
		FT.	FT. REAMED	
	Kelly Down	38.20 FT.	FT. CORED	
	TOTAL	6095.00 FT.	CUM. HRS. RUN	10½
WT OF STRING	102M LBS.		CONDITION	IN
DRILLER	B. Williams			
WEATHER CONDITIONS	SNOWING 22-			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6070	25		6095		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	TANKS ETAC	6½		7¾
PUMP No. 2	1100	5½	61	7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	12¹⁵	¼	RIG SERV CHECK BOP'S
12¹⁵	8⁰⁰	7 ¾	DRLG 7⅞ HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	118	110	118	115
W.L.-C.C.	6.2	6.2	6	6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
62	STANDS DP	5653.92 FT.	Drilling or Core Bit No.	80	81
2	SNGLS. DP	60.08 FT.	TYPE	W7R	W7
	D.C. OD	FT.	SIZE	7⅞	7⅞
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	65432	4677
	STB BODY OD	FT.	DEPTH IN	6062	6105
	SUBS OD	FT.	DEPTH OUT	6105	
	BIT OR C.B.	.60 FT.	FT. DRILLED	43	3
		FT.	FT. REAMED		
	Kelly Down	21.88 FT.	FT. CORED		
	TOTAL	6108.00 FT.	CUM. HRS. RUN	13¾	1¼
WT OF STRING	102,000 LBS.		CONDITION	FAIR	IN
DRILLER	E. Mill				
WEATHER CONDITIONS	-12°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6095	13		6108		85	20-28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	49	1¼
PUMP No. 2	950	5½	61	3¼

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	8¹⁵	¼	RIG SERVICE & CHECK BOP's
8¹⁵	11³⁰	3 ¼	DRILLING 7⅞" HOLE.
11³⁰	2³⁰	3	TRIP FOR BIT
2³⁰	2⁴⁵	¼	BREAK CIRC & CLEAN OUT TO BOTTOM.
2⁴⁵	4⁰⁰	1 ¼	DRILLING 7⅞" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	T		9.9
VISC.	120			130
W.L.-C.C.	6.2	B		5.6
FLTR. CK.	2/32	1		2/32
pH	9.		P	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
63	STANDS DP	5743.54 FT.	Drilling or Core Bit No.	81
	SNGLS. DP	~ FT.	TYPE	W7
	D.C. OD	FT.	SIZE	7⅞
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	4677
	STB BODY OD	FT.	DEPTH IN	6105
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	27
		FT.	FT. REAMED	
	Kelly Down	16.34 FT.	FT. CORED	
	TOTAL	6132.00 FT.	CUM. HRS. RUN	9
WT OF STRING	102,000 LBS.		CONDITION	IN
DRILLER	R. Nolan			
WEATHER CONDITIONS	CLEAR -15°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6108	24		6132		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	7¾
PUMP No. 2	CIRC TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6060	1°							

From	To	Elapsed Time	PEMARKS
4⁰⁰	4¹⁵	¼	RIG SERV. CHECK BOP'S
4¹⁵	12⁰⁰	7 ¾	DRILL 7⅞" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.1	10.1	10
VISC.	126	125	120	112
W.L.-C.C.	6.4	6.8	6.6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	10#		
TANNATHIN	50#		

710 Gals Diesel Consumed in last 24 hrs.

REPORT No. 88 DATE: March 19/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: RO CORP GRANDVIEW HILLS No. 1 | PROVINCE: N.W.T

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD, TYPE THD. FH | DRILL PIPE GRADE E

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5	6	598			

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Parker

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3½	5¾	2¾
TRIPPING	3½	1¾	1½
RIG MAINTENANCE	½	¼	1½
RIG REPAIRS			
HOLE SURVEYS		¼	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	½		1¼
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			1
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	777
FEET CUT OFF	800
PRESENT LENGTH	2683
TON MI. or TRIPS SINCE LAST CUT	47
CUMULATIVE TON MI. or TRIPS	4259
NO. OF DAYS FROM SPUD	85
CUMULATIVE ROTATING HRS.	992 3/4
DAYS SINCE LAST ACCDNT.	114
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	338
DAY TOUR	213
EVENING TOUR	386

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
62	STANDS DP	5653.92 FT.	Drilling or Core Bit No	78	79
	SNGLS. DP	FT.	TYPE	M4L	OWC
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	7 7/8	7 7/8
	RMR BODY OD	FT.	NOZZ. SIZE	11/16	11/16
	STB BODY OD	FT.	SERIAL No.	378624	80448
	SUBS OD	FT.	DEPTH IN	6012	6036
	BIT OR C.B.	.60 FT.	DEPTH OUT	6036	6049
		FT.	FT. DRILLED	24	9
	Kelly Down	18.96 FT.	FT. REAMED		
	TOTAL	6045.00 FT.	FT. CORED		
WT OF STRING	100 LBS.		CUM. HRS. RUN	7¼	2½
DRILLER	E. Williams		CONDITION	FAIR	GOOD
WEATHER CONDITIONS	−15°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6033	12		6045		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	3½
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	RIG SERV CHECK BOP'S
12¹⁵	1¹⁵	1		DRLG 7 7/8 HOLE
1¹⁵	3¹⁵	2		PULL OUT OF HOLE
3¹⁵	3³⁰		¼	SLIP 22' DRLG LINE
3³⁰	5⁰⁰	1	½	RUN IN W/ BIT #79
5⁰⁰	5³⁰		½	CLEAN OUT 12' TO BOTTOM
5³⁰	8⁰⁰	2	½	DRLG 7 7/8 HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9			9.9
VISC.	118			120
W.L.-C.C.	6.8	TRIP		6.2
FLTR. CK.	2/32	ECIR		2/32
pH	9.5	2 HRS		9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
62	STANDS DP	5653.92 FT.	Drilling or Core Bit No.	79
	SNGLS. DP	FT.	TYPE	OWC
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	7 7/8
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	80440
	SUBS OD	FT.	DEPTH IN	6036
	BIT OR C.B.	.60 FT.	DEPTH OUT	6062
		FT.	FT. DRILLED	26
	Kelly Down	35.96 FT.	FT. REAMED	
	TOTAL	6062.00 FT.	FT. CORED	
WT OF STRING	102,000 LBS.		CUM. HRS. RUN	8¼
DRILLER	E. Mill		CONDITION	Dull OOG.
WEATHER CONDITIONS	−12°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6045	17		6062		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	50	6
PUMP No. 2	CIRC TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
6060	1°							

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	RIG SERV. + CHECK B.O.P.'S
8¹⁵	2⁰⁰	5	¾	DRILLING 7 7/8" HOLE
2⁰⁰	2¹⁵		¼	SURVEY.
2¹⁵	4⁰⁰	1	¾	PULL OUT W/BIT
				710 Gal Diesel Consumed Last 24 hrs.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	T
VISC.	117	115	110	
W.L.-C.C.	6.6	6.6	6.4	R
FLTR. CK.	2/32	2/32	2/32	
pH	9.5	9.5	9.5	I
SD. CONT.				P

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
62	STANDS DP	5653.92 FT.	Drilling or Core Bit No.	80
1	SNGLS. DP	30.76 FT.	TYPE	WTR
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	7 7/8"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	65432
	SUBS OD	FT.	DEPTH IN	6062
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	8
	Kelly Down	13.20 FT.	FT. REAMED	15' 1¼
	TOTAL	6070.00 FT.	FT. CORED	
WT OF STRING	102,000 LBS.		CUM. HRS. RUN	23¼
DRILLER	R. Nolan		CONDITION	IN.
WEATHER CONDITIONS	SNOW −15°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6062	8		6070			
6047		15	6062	REAM OOG HOLE	140	243

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	
PUMP No. 2	[illegible]	6½	59	1

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	RIG SERV CHECK BOP'S
4¹⁵	5³⁰	1	1¼	SLIP 132 CUT 150 DRLG LINE
				REPAIR LOCK OUT CONTROL VALVE FOR CROWN SAVER.
5³⁰	7⁰⁰	1	1½	RUN IN W/ BIT #80
7⁰⁰	8¹⁵	1	1¼	REAM OOG HOLE.
8¹⁵	10⁰⁰	1	¾	DRILL 7 7/8" HOLE (11⁰⁰-12⁰⁰) DRILL 7 7/8 HOLE.
10⁰⁰	11⁰⁰	1		WORK PLUGGED BIT-(AFTER CONNECTION.)

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	1		10.	10.
VISC.			125	125
W.L.-C.C.			6.4	6.4
FLTR. CK.			2/32	2/32
pH			9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 87 DATE: March 18/60.

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Baker
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O CORP GRANOVIEW HILLS
No.: 1
PROVINCE: N W T
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD
TYPE THD.: FH
DRILL PIPE GRADE: E

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J 55	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	5½	6¼
TRIPPING		2	1¼
RIG MAINTENANCE	¼	½	1¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			1¼
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES / SIZE	6 / 1 1/8
FEET SLIPPED	645
FEET CUT OFF	650
PRESENT LENGTH	2833
TON MI. or TRIPS SINCE LAST CUT	141
CUMULATIVE TON MI. or TRIPS	4071
NO. OF DAYS FROM SPUD	84
CUMULATIVE ROTATING HRS.	980 3/4
DAYS SINCE LAST ACCDNT.	113
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	337
DAY TOUR	212
EVENING TOUR	385

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
61	STANDS DP	5562.11 FT.	Drilling or Core Bit No	77
1	SNGLS. DP	31.07 FT.	TYPE	7⅞
12	D.C. OD	371.52 FT.	SIZE	W7
	OD	FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	85598
	STB BODY OD	FT.	DEPTH IN	5944
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	34
		FT.	FT. REAMED	
	Kelly Down	12.70 FT.	FT. CORED	
	TOTAL	5978.00 FT.	CUM. HRS. RUN	9½
WT OF STRING	92M LBS.		CONDITION	GOOD
DRILLER	B Williams			
WEATHER CONDITIONS	-8°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5948	30		5978		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	7¾
PUMP No. 2	CIRC TANKS	5½		7¼

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
1200	1215	¼	RIG SERV CHECK BOP'S
1215	200	7 ¾	DRLG 7⅞ HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	120	112	108	104
W.L.-C.C.	6.6	6.8	6.8	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	25#		
TANNATHIN	50#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
61	STANDS DP	5562.11 FT.	Drilling or Core Bit No.	77	78
2	SNGLS. DP	61.26 FT.	TYPE	7⅞	MH
	D.C. OD	FT.	SIZE	W7	7⅞
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	85598	378624
	STB BODY OD	FT.	DEPTH IN	5944	6012
	SUBS OD	FT.	DEPTH OUT	6012	
	BIT OR C.B.	.60 FT.	FT. DRILLED	68	
		FT.	FT. REAMED		
	Kelly Down	16.51 FT.	FT. CORED		
	TOTAL	6012.00 FT.	CUM. HRS. RUN	15	
WT OF STRING	102,000 LBS.		CONDITION	FAIR	
DRILLER	E. Mills				
WEATHER CONDITIONS	-4°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5978	34	"	6012	"	85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	3¾
PUMP No. 2	875	5½	62	1¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
800	815	¼	RIG SERV. & CHECK B.O.P.'S
815	145	5 ½	DRILLING 7⅞" HOLE.
145	345	2	TOH OUT W/BIT
345	400	¼	CHECK BLIND RAMS.

Fuel used 562

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	T
VISC.	106	115	120	R.
W.L.-C.C.	6.4	6.6	6.4	
FLTR. CK.	2/32	2/32	2/32	I
pH	9.	9.	9.	P
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
61	STANDS DP	5562.11 FT.	Drilling or Core Bit No.	78
2	SNGLS. DP	61.26 FT.	TYPE	MH
	D.C. OD	FT.	SIZE	7⅞
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	378624
	STB BODY OD	FT.	DEPTH IN	6012
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	21
		FT.	FT. REAMED	
	Kelly Down	37.51 FT.	FT. CORED	
	TOTAL	6033.00 FT.	CUM. HRS. RUN	6¼
WT OF STRING	102,000 LBS.		CONDITION	IN
DRILLER	B Nolan			
WEATHER CONDITIONS	LIGHT SNOW -12°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
6012	21		6033		80-85	20-28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	6¼
PUMP No. 2	CIRC TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
400	415	1¼	RIG SERV. CHECK BOP'S
415	530	1 1¼	RUN IN W/ BIT # 78
530	545	¼	BREAK CIRC. CLEAN 8' TO BOTTOM.
545	1200	6 1¼	DRILL 7⅞" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		9.9	10.	9.9
VISC.		146	125	120
W.L.-C.C.		7.	6.8	6.8
FLTR. CK.		2/32	2/32	2/32
pH		9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400#		
CAUSTIC	25#		
TANNATHIN	50#		
Q-X	50#		

REPORT No. 86

DATE: March 16/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO. 16
DRILL PIPE STRING NO. SIZE 4½
TOOL JOINT 5 3/4 OD
TYPE THD. FH
DRILL PIPE GRADE E
OPERATOR'S REPRESENTATIVE: J. R. BROWN
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 5/8	J55	0	398			

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4½	7¼	3¾
TRIPPING	3		3
RIG MAINTENANCE	¼	¼	¾
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	¼		½
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

NO.	DRILLING ASSEMBLY		
60	STANDS DP	5469.88	FT.
1	SNGLS. DP	30.60	FT.
12	D.C. 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	40.32	FT.
	TOTAL	5913.00	FT.

WT OF STRING 60M LBS.
DRILLER: B. Williams
WEATHER CONDITIONS: -4 Balmy Evening

BIT RECORD		
Drilling or Core Bit No	75	76
TYPE	H7	H7
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	357160	297571
DEPTH IN	5864	5908
DEPTH OUT	5908	5913
FT. DRILLED	44	5
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	11¾	1½
CONDITION	DULL	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5896	17		5913		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1500	6½	51	3½
PUMP No. 2	800	5½	60	1

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	15⁰⁰		¼	RIG SERV CHECK BOP'S
15¹⁵	3¹⁵	3		DRLG 7 7/8 HOLE
3¹⁵	6¹⁵	3		TRIP FOR BIT #76
6¹⁵	6³⁰		¼	BREAK CIRC CLEAN TO BOTTOM
6³⁰	8⁰⁰	1	½	DRLG 7 7/8 HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	99	9.9		
VISC.	106	107	TRIP	
W.L.-C.C.	6.8	6.8		
FLTR. CK.	2/32	2/32		
pH	9.5	9.2		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
60	STANDS DP	5469.88	FT.
2	SNGLS. DP	61.69	FT.
	D.C. OD		FT.
12	6¼ OD	311.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	34.31	FT.
	TOTAL	5938.00	FT.

WT OF STRING 101,000 LBS.
DRILLER: E. Mell
WEATHER CONDITIONS +7°

BIT RECORD	
Drilling or Core Bit No.	76
TYPE	H7
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	297571
DEPTH IN	5908
DEPTH OUT	
FT. DRILLED	30
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	9¼
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5913	25		5938		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	7¾
PUMP No. 2	C.I.R.C TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	RIG SERV. & CHECK B.O.P.
8¹⁵	4⁰⁰	7	¾	DRILLING 7 7/8 HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	110	108	108	109
W.L.-C.C.	6.8	6.2	6	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.	9	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	25 lb		
PX.	50 lb		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
61	STANDS DP	5562.11	FT.
	SNGLS. DP	✓	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	1377	FT.
	TOTAL	5948	FT.

WT OF STRING 103,000 LBS.
DRILLER: B. Nolan.
WEATHER CONDITIONS — 10°

BIT RECORD		
Drilling or Core Bit No.	76	77
TYPE	H.7	H7
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	297571	85598
DEPTH IN	5908	5944
DEPTH OUT	5944	
FT. DRILLED	36	4
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	11¼	13¼
CONDITION	Dull	IN.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5938	10		5948		85	28
					80	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	3¾
PUMP No. 2		5½		7

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5860	1¼°							

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	RIG SERV CHECK BOP'S
4¹⁵	6¹⁵	2		DRILL 7 7/8" HOLE.
6¹⁵	8⁰⁰	1	¾	PULL OUT W/ BIT #76
8⁰⁰	8³⁰		½	SLIP 22' CUT 44' DRLG LINE
8³⁰	9⁴⁵	1	¼	RUN IN W/ BIT #77
9⁴⁵	10¹⁵		½	REAM 12' TO BOTTOM.
10¹⁵	12⁰⁰	1	¾	DRILL 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	TRIP		9.9
VISC.	105			115
W.L.-C.C.	6.6			6.2
FLTR. CK.	2/32			2/32
pH	9.5			9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES 6	SIZE 1 1/8
FEET SLIPPED	645
FEET CUT OFF	650
PRESENT LENGTH	2233
TON MI. or TRIPS SINCE LAST CUT	47
CUMULATIVE TON MI. or TRIPS	3977
NO. OF DAYS FROM SPUD	83
CUMULATIVE ROTATING HRS.	961 ¼
DAYS SINCE LAST ACCDNT.	112
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	336
DAY TOUR	211
EVENING TOUR	384

REPORT No. 85
DATE: March 16/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1
PROVINCE: NWT
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO. 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD; TYPE THD. FH
DRILL PIPE GRADE: E
OPERATOR'S REPRESENTATIVE: J.B. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J55	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	3½	7¾
TRIPPING		3	
RIG MAINTENANCE	¼	½	¼
RIG REPAIRS			
HOLE SURVEYS		¼	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		¾	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES / SIZE	6 / 1⅛
FEET SLIPPED	623
FEET CUT OFF	606
PRESENT LENGTH	2877
TON MI. or TRIPS SINCE LAST CUT	311
CUMULATIVE TON MI. or TRIPS	3844
NO. OF DAYS FROM SPUD	82
CUMULATIVE ROTATING HRS.	945¼
DAYS SINCE LAST ACCDNT.	111
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	335
DAY TOUR	210
EVENING TOUR	383

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
60	STANDS DP	5469.88 FT.	Drilling or Core Bit No.	74
	SNGLS. DP	FT.	TYPE	H7W
12	D.C. 6¼ OD	371.52 FT.	SIZE	7⅞
	OD	FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	152729
	STB BODY OD	FT.	DEPTH IN	5834
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	22
		FT.	FT. REAMED	15-2HRS
	Kelly Down	14.50 FT.	FT. CORED	
	TOTAL	5856.00 FT.	CUM. HRS. RUN	7¾
WT OF STRING	101M LBS.		CONDITION	IN

DRILLER: B Williams
WEATHER CONDITIONS: -10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5834	22		5856		82	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	47	
PUMP No. 2	CIRC TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12:00	12:00		¼	RIG SERV CHECK BOP'S
12:15	8:00	7	¾	DRLG 7⅞ HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	109	109	105	106
W.L.-C.C.	6.8	6.6	6.8	6.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	25#	40#	
QUEBRACHO	50#		
TANNATHIN	50#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
60	STANDS DP	5469.88 FT.	Drilling or Core Bit No.	74	75
	SNGLS. DP	FT.	TYPE	H7W	H7
	D.C. OD	FT.	SIZE	7⅞	7⅞
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	152729	35760
	STB BODY OD	FT.	DEPTH IN	5834	5864
	SUBS OD	FT.	DEPTH OUT	5864	
	BIT OR C.B.	.60 FT.	FT. DRILLED	30	3
		FT.	FT. REAMED	15-2HRS	15 3/4
	Kelly Down	25.00 FT.	FT. CORED		
	TOTAL	5867.00 FT.	CUM. HRS. RUN	10¼	1
WT OF STRING	101,000 LBS.		CONDITION	FAIR	IN

DRILLER: E. Mill
WEATHER CONDITIONS: 0°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5856	11		5867		85	20-28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	950	6½	50	3½
PUMP No. 2	CIRC TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5860	¼°							

From	To	Elapsed Time		REMARKS
8:00	8:15		¼	RIG SERV. + CHECK B.O.P.
8:15	10:45	2	½	DRILLING 7⅞ HOLE
10:45	11:00		¼	SURVEY
11:00	12:15	1	¾	PULL OUT W/BIT.
12:15	1:00		¼	CHECK BLIND RAMS
1:00	2:15	1	¼	RUN IN W/BIT # 75
2:15	3:00		¾	REAM OUT TO BOTTOM. (FROM 5849 TO 5864)
3:00	4:00	1		DRILLING 7⅞ HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	T		9.9
VISC.	110	T		120
W.L.-C.C.	6.6	R		5.8
FLTR. CK.	2/32			2/32
pH	9.		P.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
FLOCCULED	800		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
60	STANDS DP	5469.88 FT.	Drilling or Core Bit No.	75
1	SNGLS. DP	30.68 FT.	TYPE	H7
	D.C. OD	FT.	SIZE	7⅞
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	35760
	STB BODY OD	FT.	DEPTH IN	5864
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	32
		FT.	FT. REAMED	
	Kelly Down	23.32 FT.	FT. CORED	
	TOTAL	5896.00 FT.	CUM. HRS. RUN	8¾
WT OF STRING	101,000 LBS.		CONDITION	IN

DRILLER: R Nolan
WEATHER CONDITIONS: -10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5867	29		5896		75-85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	51	7¾
PUMP No. 2	TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5860	1¼°							

From	To	Elapsed Time		REMARKS
4:00	4:15		¼	RIG SERV. CHECK BOP'S
4:15	12:00	7	¾	DRILL 7⅞" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	115	125	115	108
W.L.-C.C.	6.	6.2	6.4	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9.	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
CAUSTIC	15#		
TANNATHIN	50#		

REPORT No. 84

DATE: March 15/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. CORP GRANDVIEW HILLS #1 | No. 1 | PROVINCE: ALBERTA

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE A-12 | TOOL JOINT 5 3/4 OD, TYPE THD. FH | DRILL PIPE GRADE E

OPERATOR'S REPRESENTATIVE: D. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8	J-55	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	2 1/4	7 3/4	2
TRIPPING	3 1/2		3 1/2
RIG MAINTENANCE	1/4	1/4	1 1/2
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	2		2
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2 NEW
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	623
FEET CUT OFF	606
PRESENT LENGTH	2877
TON MI. or TRIPS SINCE LAST CUT	222
CUMULATIVE TON MI. or TRIPS	3755.

NO. OF DAYS FROM SPUD	81
CUMULATIVE ROTATING HRS.	926 1/4
DAYS SINCE LAST ACCDNT.	110
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	234
DAY TOUR	209
EVENING TOUR	382

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
59	STANDS DP	5378.36 FT.	Drilling or Core Bit No	72	73
1	SNGLS. DP	30.72 FT.	TYPE	W7R	H7W
12	D.C. 6 1/4 OD	371.52 FT.	SIZE	7 7/8	7 7/8
	OD	FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	80769	153347
	STB BODY OD	FT.	DEPTH IN	5795	5810
	SUBS OD	.60 FT.	DEPTH OUT	5810	
	BIT OR C.B.	FT.	FT. DRILLED	15	
		FT.	FT. REAMED		9-2
	Kelly Down	28.80 FT.	FT. CORED		
	TOTAL	5810.00 FT.	CUM. HRS. RUN	5 1/4	
WT OF STRING	101 M LBS.		CONDITION	DULL-OG IN	
DRILLER	D. Williams				
WEATHER CONDITIONS	-15°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5803	7		5810		83	28
5801	9	9	5810		150	2-3

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	47	2 1/4
PUMP No. 2	CIRC TANKS	5 1/2		7 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12:00	12:15		1/4	RIG SERV CHECK BOP'S
12:15	2:30	2	1/4	DRLG 7 7/8 HOLE
2:30	6:00	3	1/2	TRIP FOR BIT #73
6:00	8:00	2		REAM OOG HOLE (5801 - 5810)

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.8	TRIP		9.9
VISC.	132	"		141
W.L.-C.C.	6-8	CIR		6-2
FLTR. CK.	2/32	1 HR		2/32
pH	9.5			9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
59	STANDS DP	5378.36 FT.	Drilling or Core Bit No.	73
2	SNGLS. DP	60.75 FT.	TYPE	H7W
	D.C. OD	FT.	SIZE	7 7/8
12	6 1/4 OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	153347
	STB BODY OD	FT.	DEPTH IN	5810
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	20
		FT.	FT. REAMED	9 IN 2 HRS
	Kelly Down	18.77 FT.	FT. CORED	
	TOTAL	5830.00 FT.	CUM. HRS. RUN	7 1/4
WT OF STRING	101,000 LBS.		CONDITION	IN
DRILLER	E. Mill			
WEATHER CONDITIONS	+5°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5810	20		5830		85	20-28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	47	7 3/4
PUMP No. 2	CIRC TANKS	5 1/2		7 1/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	8:15		1/4	RIG SERV. + CHECK B.O.P.'S
8:15	4:00	7	3/4	DRILLING 7 7/8" HOLE.

8.09 Gal Consumed in last 24 hr Period.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	130	115	115	120
W.L.-C.C.	6.8	6.4	6.2	6.
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.	9.	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	15 #		
TANNATHIN	50 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
59	STANDS DP	5378.36 FT.	Drilling or Core Bit No.	73	74
2	SNGLS. DP	60.75 FT.	TYPE	H7W	H7W
	D.C. OD	FT.	SIZE	7 7/8	7 7/8
12	6 1/4 OD	371.52 FT.	NOZZ SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	153347	152729
	STB BODY OD	FT.	DEPTH IN	5810	5834
	SUBS OD	FT.	DEPTH OUT	5834	
	BIT OR C.B.	.60 FT.	FT. DRILLED	24	
		FT.	FT. REAMED		12
	Kelly Down	17.88 FT.	FT. CORED		006 2
	TOTAL	5834.00 FT.	CUM. HRS. RUN	9 3/4	
WT OF STRING	102,000 LBS.		CONDITION	DULL 006	
DRILLER	R. Nolan				
WEATHER CONDITIONS	-10°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5830	4		5834		85	28
5822		12	5834		140	2-3

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	47	4
PUMP No. 2	CIRC TANKS	5 1/2	—	7 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5670	3 1/4°							

From	To	Elapsed Time		REMARKS
4:00	6:00	2		DRILL 7 7/8" HOLE.
6:00	6:15		1/4	RIG SERV CHECK BOP'S
6:15	8:15	2		MEASURE OUT W/ BIT #73 {+2.47 DIFF (NO COR) MADE}
8:15	8:30		1/4	SLIP 22' DRLG LINE
8:30	10:00	1	1/2	RUN IN W/ BIT #74
10:00		2		REAM 006 HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9			9.9
VISC.	122			125
W.L.-C.C.	6.8			6.6
FLTR. CK.	2/32			2/32
pH	7.			9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 83 DATE: March 14/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: RO CORP GRANDVIEW HILLS #1 — No. 1 — PROVINCE: NWT
CONTRACTOR: PETER BAWDEN DRILLING LIMITED — RIG NO. 16
DRILL PIPE STRING NO. SIZE: 4½ — TOOL JOINT: 5 3/4 OD — TYPE THD. FH
DRILL PIPE GRADE: E
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS No.	MANUFACTURER	TYPE
1.	CILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
~~13 5/8~~ 9 5/8	36 J-55					

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3	5	3
TRIPPING	3	1¾	1½
RIG MAINTENANCE	¼	¼	½
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD	½		
CONDITIONING HOLE			
~~Reaming & Cleaning~~ To Bottom	1¼		3
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2. NEW
NO. OF LINES	6 SIZE 1 1/16
FEET SLIPPED	601
FEET CUT OFF	606
PRESENT LENGTH	2877
TON MI. or TRIPS SINCE LAST CUT	44
CUMULATIVE TON MI. or TRIPS	3577
NO. OF DAYS FROM SPUD	80
CUMULATIVE ROTATING HRS.	914'14
DAYS SINCE LAST ACCDNT.	110
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	333
DAY TOUR	208
EVENING TOUR	381

MORNING TOUR

NO.	DRILLING ASSEMBLY		
59	STANDS DP	5378.36	FT.
	SNGLS. DP		FT.
12	D.C. 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	1.60	FT.
			FT.
	Kelly Down	27.52	FT.
	TOTAL	5778.00	FT.
WT OF STRING	102,000	LBS.	
DRILLER	E. Williams		
WEATHER CONDITIONS	−38°		

BIT RECORD		
Drilling or Core Bit No.	70	71
TYPE	RG3	WTR
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	63264	65434
DEPTH IN	5736	5766
DEPTH OUT	5766	
FT. DRILLED		12
FT. REAMED	30	
FT. CORED		
CUM. HRS. RUN	1¼	3
CONDITION	GOOD	IN

Depth At Beginning of Tour	Drilled This Tour	~~Cored~~ or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5766	12		5778		85	20+28
5736		30	5766		75	5+6

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4¾
PUMP No. 2	CIRC TANKS	5½		7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	RIG SERV CHECK BOP'S
12¹⁵	1³⁰	1	¼	REAM OOG HOLE (INTERVAL 5736 - 5766)
1³⁰	2⁰⁰		½	CIRC + MIX CHEMICAL
2⁰⁰	5⁰⁰	3		TRIP FOR BIT # 71
5⁰⁰	8⁰⁰	3		DRLG 7 7/8 HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	TRIP			10
VISC.				107
W.L.-C.C.	CIRC			6.6
FLTR. CK.	2 HRS			2/32
pH				9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	75#		
TANNATHIN	50#		
QUEBRACHO	50#		

DAY TOUR

NO.	DRILLING ASSEMBLY		
59	STANDS DP	5378.36	FT.
1	SNGLS. DP	30.72	FT.
12	D.C. 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	13.80	FT.
	TOTAL	5795.00	FT.
WT OF STRING	102,000	LBS.	
DRILLER	E. Mill		
WEATHER CONDITIONS	Cool − 20°		

BIT RECORD		
Drilling or Core Bit No.	71	72
TYPE	WTR	WTR
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	65434	80769
DEPTH IN	5766	5795
DEPTH OUT	5795	
FT. DRILLED	29	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	8	
CONDITION	DULL	NEW

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5778	17		5795		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	5½
PUMP No. 2	CIRC TANKS	5½		7

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8³⁰		½	RIG SERV & CHECK B.O.P.S
8³⁰	1³⁰	5		DRILLING 7 7/8" HOLE
1³⁰	3¹³	1	¾	PULL OUT W/BIT
3¹³	4⁰⁰		¾	SLIP & CUT LINE SLIP 22' CUT
				759 Gal Deisel Consumed in Last 24 Hrs.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.	10.	T	
VISC.	105	103		
W.L.-C.C.	6.2	7.	R.	
FLTR. CK.	2/32	2/32		
pH	9.5	9.5		LP
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
59	STANDS DP	5378.36	FT.
1	SNGLS. DP	30.72	FT.
12	D.C. 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	21.80	FT.
	TOTAL	5803.00	FT.
WT OF STRING	102,000	LBS.	
DRILLER	Ed. Ptolan		
WEATHER CONDITIONS	−15°		

BIT RECORD	
Drilling or Core Bit No.	72
TYPE	WTR
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	80769
DEPTH IN	5795
DEPTH OUT	
FT. DRILLED	8.
FT. REAMED	24
FT. CORED	3 HRS
CUM. HRS. RUN	3
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5795	8		5803		85	20+28
5768		24	5795	REAMED OOG. HOLE	150	2+3

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750 800	6½	47	
PUMP No. 2	TANKS	5½		6

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	FINISH CUTTING DRLG LINE. CUT 59'- SLIP 27'
4¹⁵	4³⁰		¼	RIG SERV CHECK BOP'S
4³⁰	6⁰⁰	1	½	RUN IN W/ BIT # 72
6⁰⁰	9⁰⁰	3		REAM 34' TIGHT & OOG HOLE TO BOTTOM.
9⁰⁰	12⁰⁰	3		DRILL 7 7/8" HOLE
				LOST 50 BBL MUD @ 5796

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.	10.	9.8
VISC.		115	130	150
W.L.-C.C.		6.2	6.4	6.6
FLTR. CK.		2/32	2/32	2/32
pH		9.5	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	4200#		
SAW DUST	18 sx		
Q-X	50 #		
CAUSTIC	40 #		
TANNATHIN	50 #		

REPORT No. 82 DATE: March 13/80

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS
No.: 1
PROVINCE: N.W.T.
OPERATOR'S REPRESENTATIVE: G. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6	2	3¾
TRIPPING	1¼	3	3¼
RIG MAINTENANCE	1/4	¼	3/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	1½	2¾	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			¼
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES 6 SIZE	1⅛
FEET SLIPPED	574
FEET CUT OFF	547
PRESENT LENGTH	2936
TON MI. or TRIPS SINCE LAST CUT	297
CUMULATIVE TON MI. or TRIPS	3400
NO. OF DAYS FROM SPUD	80
CUMULATIVE ROTATING HRS.	903¼
DAYS SINCE LAST ACCDNT.	109
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	380
DAY TOUR	332
EVENING TOUR	207

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
58	STANDS DP	5285.83 FT.	Drilling or Core Bit No.	68
2	SNGLS. DP	61.67 FT.	TYPE	W7
	D.C. OD	FT.	SIZE	7 7/8
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	85390
	STB BODY OD	FT.	DEPTH IN	5720
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	23
		FT.	FT. REAMED	
	Kelly Down	23.38 FT.	FT. CORED	
	TOTAL	5743 FT.	CUM. HRS. RUN	6
WT OF STRING		102,000 LBS.	CONDITION	IN

DRILLER: B. Nolan
WEATHER CONDITIONS: CLEAR & COOL -45

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5720	23		5743		85	28

	PUMP PRESS	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	
PUMP No. 2	CIRC TANK	5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5670	3/4°							

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	FINISH IN W/ BIT # 68
12¹⁵	12³⁰		¼	RIG-SERV CHECK BOP'S
12³⁰	2⁰⁰	1	½	REAM 30' TIGHT HOLE TO BOTTOM
2⁰⁰	8⁰⁰	6		DRILL 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	10
VISC.	112	105	110	116
W.L.-C.C.	6	6	6.4	7
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500 #		
CAUSTIC	40 #		
Q-X	50 #		
TANNATHIN	50 #		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
58	STANDS DP	5285.83 FT.	Drilling or Core Bit No.	68	69
2	SNGLS. DP	61.67 FT.	TYPE	W7	HTW
	D.C. OD	FT.	SIZE	7 7/8	7 7/8
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	85390	153515
	STB BODY OD	FT.	DEPTH IN	5720	5746
	SUBS OD	FT.	DEPTH OUT	5746	
	BIT OR C.B.	.60 FT.	FT. DRILLED	26	TD
		FT.	FT. REAMED	30: 1½ M	18-2½
	Kelly Down	33.41 FT.	FT. CORED		
	TOTAL	5753.00 FT.	CUM. HRS. RUN	6½	11½
WT OF STRING		103M LBS.	CONDITION	OOG BAR	IN

DRILLER: L. Williams
WEATHER CONDITIONS: Clear & Cool -12°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5743	10		5753		85	28
5728		18	5746		150	2&3

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4¾
PUMP No. 2	CIRC TANKS	5½		7 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5670	3/4							

From	To	Elapsed Time		REMARKS
8⁰⁰	8³⁰		½	DRLG 7⅞ HOLE
8³⁰	8⁴⁵		¼	RIG SERV CHECK BOP'S
8⁴⁵	11⁴⁵	3		TRIP FOR BIT
11⁴⁵	12⁰⁰		¼	BREAK CIRC
12⁰⁰	2³⁰	2	½	REAM OOG HOLE (INTERVAL 5728-5746)
2³⁰	4⁰⁰	1	½	DRLG 7⅞ HOLE

809 Gals Diesel Consumed in last 24 hrs

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	TRIP		10	10
VISC.	E		104	102
W.L.-C.C.	CIR		6.6	6.6
FLTR. CK.	2 HRS		2/32	2/32
pH			9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
59	STANDS DP	5378.36 FT.	Drilling or Core Bit No.	69	70
	SNGLS. DP	FT.	TYPE	HTW	RG3
	D.C. OD	FT.	SIZE	7 7/8	7 7/8
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	153515	63264
	STB BODY OD	FT.	DEPTH IN	5746	
	SUBS OD	FT.	DEPTH OUT	5766	
	BIT OR C.B.	.60 FT.	FT. DRILLED	20	
		FT.	FT. REAMED		
	Kelly Down	15.52 FT.	FT. CORED		
	TOTAL	5766.00 FT.	CUM. HRS. RUN	5¼	
WT OF STRING		103,000 LBS.	CONDITION	DULL OOG.	

DRILLER: E. Mill
WEATHER CONDITIONS: -36.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5753	13		5766		86	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	3¾
PUMP No. 2	CIRC TANKS	5½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	RIG SERVICE & CHECK B.O.P.'S
4¹⁵	8⁰⁰	3	¾	DRILLING 7⅞" HOLE
8⁰⁰	9⁴⁵	1	¾	PULL OUT W/BIT
9⁴⁵	10⁰⁰		¼	CHECK BLIND RAMS.
10⁰⁰	10³⁰		½	SLIP LINE
10³⁰	12⁰⁰	1	½	RUN IN

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.	10.	T	
VISC.	103	100		
W.L.-C.C.	6.4	6.6	R	
FLTR. CK.	2/32	2/32		
pH	9.5	9.	P	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT	TYPE	AMT.

REPORT No. 81

DATE: MARCH 12 - 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
OPERATOR'S REPRESENTATIVE:
CONTRACTOR'S TOOL PUSHER: Harry Foster
LOCATION LSD. SEC. TWP. RGE. W.
DRILL PIPE STRING NO. SIZE:
TOOL JOINT 5 3/4 OD, TYPE THD. FH
DRILL PIPE GRADE: 2-3
WELL NAME: R O CORP GRANDVIEW HILLS No. 1
PROVINCE: N W T

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7 3/4	1/4	3
TRIPPING		3 3/4	3 1/4
RIG MAINTENANCE	1/4	1 1/2	1/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
~~Reaming & Cleaning~~ To Bottom		2 1/2	1 1/2
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

DRILLING ASSEMBLY

NO.			
58	STANDS DP	5285.83	FT.
1	SNGLS. DP	3093	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	17.12	FT.
	TOTAL	5706	FT.
WT OF STRING		102,000	LBS.
DRILLER		H Nolan	
WEATHER CONDITIONS		VERY COOL -45°	

BIT RECORD

Drilling or Core Bit No.	66
TYPE	M4L
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	378604
DEPTH IN	5673
DEPTH OUT	
FT. DRILLED	33
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	9 1/4
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5679	27		5706		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	50	7 3/4
PUMP No. 2	ON TANKS	5 1/2		"

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	12:15	1/4	RIG SERV. CHECK BOP'S
12:15	8:00	7 3/4	DRILL 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.	10.	10.	10.
VISC.	110	112	110	108
W.L.-C.C.	6.2	6.4	6.4	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.	9.	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
58	STANDS DP	5285.83	FT.
1	SNGLS. DP	30.93	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	18.12	FT.
	TOTAL	5707.00	FT.
WT OF STRING		102 M	LBS.
DRILLER		E Williams	
WEATHER CONDITIONS		Cool -30°	

BIT RECORD

Drilling or Core Bit No.	66	67
TYPE	M4L	H7W
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	378604	153340
DEPTH IN	5673	5687
DEPTH OUT	5707	
FT. DRILLED	34	
FT. REAMED		12
FT. CORED		
CUM. HRS. RUN	9 1/2	2 1/4
CONDITION	DOG BRD	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5706	1		5707		85	28
5687		12	5699		120	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	48	2 1/2
PUMP No. 2	ON TANKS	5 1/2		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	8:15	1/4	DRLG 7 7/8 HOLE 1°-30 - 14° BREAK CIRC
8:15	8:30	1/4	RIG SERV & CHECK BOP'S 1°-45 - 4° REAM OOG HOLE
8:30	10:30	2	PULL OOT (INTERVAL 5687 - 5699)
10:30	10:45	1/4	WORK ON BY DRIL
10:45	11:15	1/2	RUN IN DC'S
11:15	12:15	1	SLIP & CUT 102' DRLG LINE
12:15	1:30	1 1/4	RUN IN W/ BIT

809 GALS. DIESEL Consumed in last 24 hr period.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	TR	10		9.9
VISC.	TR	40		102
W.L.-C.C.	TR	11.4 HR		6
FLTR. CK.				2/32
pH				9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

DRILLING ASSEMBLY

NO.			
58	STANDS DP	5285.83	FT.
1	SNGLS. DP	30.93	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	31.12	FT.
	TOTAL	5720.00	FT.
WT OF STRING		102,000	LBS.
DRILLER		E. Mill	
WEATHER CONDITIONS		-35°	

BIT RECORD

Drilling or Core Bit No.	67	68
TYPE	H7W	W7
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	153340	85390
DEPTH IN	5707	5720
DEPTH OUT	5720	
FT. DRILLED	13	
FT. REAMED	20' 3/4 HR	
FT. CORED	OOG Hole	
CUM. HRS. RUN	3	
CONDITION	FAIR. NEW	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5707	13		5720		85	28
5699		8	5707		120	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	48	4 1/2
PUMP No. 2	CIRC TANKS	5 1/2		7 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	4:15	1/4	RIG SERV. & CHECK B.O.P's
4:15	5:45	1 1/2	REAM O.O.G. HOLE. (FROM 5699 TO 5707')
5:45	8:45	3	DRILLING 7 7/8" Hole
8:45	12:00	3 1/4	TRIP FOR BIT.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	10.		
VISC.	100	100		
W.L.-C.C.	5.8	6.2		
FLTR. CK.	2/32	2/32		
pH	9.	9.		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	552
FEET CUT OFF	547
PRESENT LENGTH	29.36
TON MI. or TRIPS SINCE LAST CUT	127
CUMULATIVE TON MI. or TRIPS	3230
NO. OF DAYS FROM SPUD	79
CUMULATIVE ROTATING HRS.	887 1/4
DAYS SINCE LAST ACCDNT.	108
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	379
DAY TOUR	331
EVENING TOUR	206

REPORT No. 80

DATE: MARCH 11, - 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1

PROVINCE: N WT

CONTRACTOR: PETER BAWDEN DRILLING LIMITED

RIG NO.: 16

DRILL PIPE STRING NO. SIZE: 4½

TOOL JOINT: 5 3/4" OD TYPE THD. FH

DRILL PIPE GRADE: 2-3

OPERATOR'S REPRESENTATIVE:

CONTRACTOR'S TOOL PUSHER: Doug Corbett

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4	7 3/4	3 3/4
TRIPPING	3 1/4		3 1/2
RIG MAINTENANCE	3/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS			1/4
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			1/4
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 2

NO. OF LINES 6 SIZE 1/8

FEET SLIPPED 471

FEET CUT OFF 440

PRESENT LENGTH 3043

TON MI. or TRIPS SINCE LAST CUT 380

CUMULATIVE TON MI. or TRIPS 3103

NO. OF DAYS FROM SPUD 78

CUMULATIVE ROTATING HRS. 872½

DAYS SINCE LAST ACCDNT. 107

DRILLER ACCDNT. FREE DAYS

MORNING TOUR 378

DAY TOUR 320

EVENING TOUR 205

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
57	STANDS DP	5194.22 FT.	Drilling or Core Bit No.	64	65
1	SNGLS. DP	30.30 FT.	TYPE	W.7	M4L
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	7 7/8	7 7/8
	RMR BODY OD	FT.	NOZZ. SIZE	11/16	11/16
	STB BODY OD	FT.	SERIAL No.	34752	378634
	SUBS OD	FT.	DEPTH IN	5585	5624
	BIT OR C.B.	.60 FT.	DEPTH OUT	5624	
		FT.	FT. DRILLED	39	4
	Kelly Down	31.36 FT.	FT. REAMED		
	TOTAL	5628.00 FT.	FT. CORED		
WT OF STRING	100,000 LBS.		CUM. HRS. RUN	10	1
DRILLER	R. Nolan		CONDITION	T.B	IN
WEATHER CONDITIONS	-38°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5610	18		5625		85	28
5625			5628		85	20-28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4
PUMP No. 2	CIRC TANKS	5½		7 3/4

DEVIATION RECORD: DEPTH 5512 DEV. 1½° DIRECTION

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
1200	300	3		DRILL 7 7/8" HOLE
300	315		1/4	RIG SERV CHECK BOP'S
315	500	1	3/4	PULL OUT W/ BIT #64
500	530		1/2	SLIP 22' DRLG LINE CHECK CROWN SAVER
530	700	1	1/2	RUN IN W/ BIT #65
700	800	1		DRILL 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10			10.
VISC.	112			130
W.L.-C.C.	6.2			5.8
FLTR. CK.	2/32			2/32
pH	9.5			9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
57	STANDS DP	5194.22 FT.	Drilling or Core Bit No.	65	
2	SNGLS. DP	60.86 FT.	TYPE	M4L	
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	7 7/8	
	RMR BODY OD	FT.	NOZZ. SIZE	11/16	
	STB BODY OD	FT.	SERIAL No.	378634	
	SUBS OD	FT.	DEPTH IN	5624	
	BIT OR C.B.	.60 FT.	DEPTH OUT		
		FT.	FT. DRILLED	39	
	Kelly Down	35.80 FT.	FT. REAMED		
	TOTAL	5663.00 FT.	FT. CORED		
WT OF STRING	101M LBS.		CUM. HRS. RUN	8 3/4	
DRILLER	B. Williams		CONDITION	1K	
WEATHER CONDITIONS	FAIR -16				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5628	35		5663		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	7 3/4
PUMP No. 2	CIRC TANKS	5½		

DEVIATION RECORD: DEPTH 5512 4½° DEV. DIRECTION | DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
800	815		1/4	RIG SERV CHECK BOP'S
815	400	7	3/4	DRLG 7 7/8 HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	9.9	9.9	9.9
VISC.	125	132	115	102
W.L.-C.C.	6	7	7	7
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	10#		
FOAM THIN	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
58	STANDS DP	5285.83 FT.	Drilling or Core Bit No.	65	66
	SNGLS. DP	FT.	TYPE	M4L	M4L
	D.C. OD	FT.	SIZE	7 7/8"	7 7/8
12	6 1/4 OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	378634	378604
	STB BODY OD	FT.	DEPTH IN	5624	5673
	SUBS OD	FT.	DEPTH OUT	5673	
	BIT OR C.B.	.60 FT.	FT. DRILLED	49	6
		FT.	FT. REAMED		
	Kelly Down	21.05 FT.	FT. CORED		
	TOTAL	5679.00 FT.	CUM. HRS. RUN	11	1½
WT OF STRING	102,000 LBS.		CONDITION	D/I	IN
DRILLER	E. Mill				
WEATHER CONDITIONS	Cool -41°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5663	16		5673		85	28
5673			5679		85	20-28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4
PUMP No. 2	CIRC TANKS	5½		8

DEVIATION RECORD: DEPTH 5670 DEV. 3/4° DIRECTION | DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
400	445		3/4	DRILLING 7 7/8" HOLE
445	500		1/4	RIG SERV. + CHECK BOP'S
500	630	1	1/2	DRILLING 7 7/8 HOLE.
630	645		1/4	SURVEY
645	1015	3	1/2	TRIP FOR BIT
1015	1030		1/4	BREAK CIRC + CLEAN OUT TO BOTTOM.
1030	1200	1	1/2	DRILLING 7 7/8" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9			9.9
VISC.	105			115
W.L.-C.C.	6.4			6.4
FLTR. CK.	2/32			2/32
pH	9.			9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 79

DATE: MARCH 10. 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. CORP GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4 1/2 | TOOL JOINT 3 1/4 OD | TYPE THD. FH | DRILL PIPE GRADE 2-3

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: Doug Barber

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	2 1/2	5	7
TRIPPING	3 1/2	2 3/4	1/4
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	1 3/4		1/2
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	449
FEET CUT OFF	440
PRESENT LENGTH	3043
TON MI. or TRIPS SINCE LAST CUT	210
CUMULATIVE TON MI. or TRIPS	2933
NO. OF DAYS FROM SPUD	77
CUMULATIVE ROTATING HRS.	357
DAYS SINCE LAST ACCDNT.	106
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	377
DAY TOUR	329
EVENING TOUR	204

MORNING TOUR

NO.	DRILLING ASSEMBLY		
56	STANDS DP	5103.25	FT.
2	SNGLS. DP	60.60	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	32.03	FT.
	TOTAL	5568	FT.
WT OF STRING		100,000	LBS.

DRILLER: R. Nolan

WEATHER CONDITIONS: CLEAR — 50

BIT RECORD		
Drilling or Core Bit No	62	63
TYPE	H7	W7R
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	32032	13484
DEPTH IN	5543	5564
DEPTH OUT	5564	
FT. DRILLED	21	4
FT. REAMED		19'
FT. CORED		13 1/4 HR
CUM. HRS. RUN	6 3/4	1 1/4
CONDITION	Dull 006	1N

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5560	8		5564		85	28
5564			5568		70 85	20 28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	48	
PUMP No. 2	ON TANKS	5 1/2		7 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5512	1 1/2°							

From	To	Elapsed Time		REMARKS
12:00	1:15	1	1/4	DRILL @ 7 7/8" HOLE
1:15	1:30		1/4	RIG SERV CHECK BOP's
1:30	5:00	3	1/2	TRIP FOR BIT # 63
5:00	6:45	1	3/4	REAM OOG HOLE FROM 5545 - 5564
6:45	8:00	1	1/4	DRILL 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				10.
VISC.				117
W.L.-C.C.				6 cc
FLTR. CK.				2/32
pH				9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		

DAY TOUR

NO.	DRILLING ASSEMBLY		
57	STANDS DP	5194.22	FT.
	SNGLS. DP		FT.
12	D.C. 6 1/4 OD		FT.
	OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	18.66	FT.
	TOTAL	5585.00	FT.
WT OF STRING		100.000	LBS.

DRILLER: R. Williams.

WEATHER CONDITIONS: Cool + Clear — 20°

BIT RECORD		
Drilling or Core Bit No.	63	64
TYPE	W7R	W7
SIZE	7 1/4	7 7/8
NOZZ. SIZE	1/16	11/16
SERIAL No.	13481	34752
DEPTH IN	5564	
DEPTH OUT	5585	
FT. DRILLED	21	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	6 1/4	
CONDITION	DULL	NEW

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5564	17		5585		85	28 max.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	48	5
PUMP No. 2	ON Tanks	5 1/2		2 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5512	1/2 0/0							

From	To	Elapsed Time		REMARKS
8	9:45		1/4	Rig Service + check BOPS
9:45	1:15	5		Drilling 7 1/2 Hole
1:15	4:00	2	3/4	TRIP FOR BIT #64

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10		
VISC.	120	140		
W.L.-C.C.	6.2	6.2		
FLTR. CK.	2/32	2/32		
pH	9	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	800 #		
CAUSTIC	25#		
QUEBRACHO	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
57	STANDS DP	5194.22	FT.
1	SNGLS. DP	30.30	FT.
	D.C. OD		FT.
12	6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	12.31	FT.
	TOTAL	5610.00	FT.
WT OF STRING		102,000	LBS.

DRILLER: E. Mill

WEATHER CONDITIONS: — 35°

BIT RECORD		
Drilling or Core Bit No.	64	
TYPE	W7	
SIZE	7 7/8	
NOZZ. SIZE	11/16	
SERIAL No.	34752	
DEPTH IN	5585	
DEPTH OUT		
FT. DRILLED	25	
FT. REAMED	5' 1/2 HR.	
FT. CORED		
CUM. HRS. RUN	7	
CONDITION	IN	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5585	25		5610		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	48	7 1/2
PUMP No. 2	CIRC TANKS	5 1/2		7 1/2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:00	4:15		1/4	FINISH IN W/BIT # 64
4:15	4:30		1/4	RIG SERVICE CHECK B.O.P.'s
4:30	5:00		1/2	BREAK CIRC + REAM OOG. HOLE TO BOTTOM 5580 TO 5585
5:00	12:00	7		DRILLING 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.	10.	10.	10
VISC.	175	145	135	130
W.L.-C.C.	6.6	6.4	6.4	6.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	15#		
TANNATHIN	50#		

REPORT No. 78

DATE: MARCH 9 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP

LOCATION LSD. SEC. TWP. RGE. W.

WELL NAME: R.O. CORP GRANDVIEW HILLS #1 No. 1

PROVINCE

CONTRACTOR: PETER BAWDEN DRILLING LIMITED

RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4 1/2 | TOOL JOINT 5 3/4 OD | TYPE THD. FH | DRILL PIPE GRADE E-3

OPERATOR'S REPRESENTATIVE

CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3 3/4	5 1/2	5 1/2
TRIPPING	3/4	2 1/4	1 1/4
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS	1/4		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	1/2		1/4
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			3/4
SUB TOTAL	8	8	8
DAYWORK HOURS	8		
TOTAL HOURS	8	8	8

DRILLING ASSEMBLY

NO.			
56	STANDS DP	5163.25	FT.
1	SNGLS. DP	30.15	FT.
12	D.C. 6 4/4 OD	371.52	FT.
	RMR BODY OD		FT.
1	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	14.38	FT.
	TOTAL	5524.00	FT.
WT OF STRING		98,000	LBS.

DRILLER: H. Holan

WEATHER CONDITIONS: -28°

BIT RECORD

Drilling or Core Bit No.	60	61
TYPE	W7	H7
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	82551	357161
DEPTH IN	5504	5517
DEPTH OUT	5517	
FT. DRILLED	13	7
FT. REAMED	16'00G	
FT. CORED	3HRS	
CUM. HRS RUN	5 1/4	2 1/2
CONDITION	DULL	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5514	10		5517		85	28
5517			5524		70	22

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	48	3 3/4
PUMP No. 2	OK TANKS	5 1/2		3 3/4

DEVIATION RECORD: DEPTH 5512 | DEV. 1/2° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
12:00	1:15	1	1/4	DRILL 7 7/8 HOLE
1:15	1:30		1/4	SURVEY
1:30	1:45		1/4	RIG SERV CHECK BOP'S
1:45	5:00	3	1/4	TRIP FOR BIT #61
5:00	5:30		1/2	REAM 20' TO BOTTOM
5:30	8:00	2	1/2	DRILL 7 7/8 HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				10.0
VISC.				100
W.L.-C.C.				6.4
FLTR. CK.				2/32
pH				9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DAY TOUR

DRILLING ASSEMBLY

NO.			
56	STANDS DP	5103.25	FT.
	SNGLS. DP	30.15	FT.
12	D.C. OD OD	371.52	FT.
	RMR BODY OD		FT.
1	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	33.38	FT.
	TOTAL	5543.00	FT.
WT OF STRING		99M	LBS.

DRILLER: B. Williams

WEATHER CONDITIONS: -12°

BIT RECORD

Drilling or Core Bit No.	61
TYPE	H7
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	357161
DEPTH IN	5517
DEPTH OUT	5543
FT. DRILLED	26
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	8
CONDITION	DULL

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5524	19		5543		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6 1/2	48	
PUMP No. 2	OK TANKS	5 1/2		

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
8:00	8:15		1/4	RIG SERV CHECK BOP'S
8:15	1:45	5	1/2	DRILL 7 7/8 HOLE
1:45	3:45	2		PULL OUT
3:45	4:00		1/4	CHANGE BITS

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	16	10	
VISC.	102	140	117	
W.L.-C.C.	7.8	7		
FLTR. CK.	2/32	2/32	2/32	
pH	9.	9.	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	125 SAN		
CAUSTIC	30#		
QUEBRACHO	50#		
TANNITHIN	50#		
DRISLD	50#		
SAWDUST	560#		

EVENING TOUR

DRILLING ASSEMBLY

NO.			
56	STANDS DP	5103.25	FT.
2	SNGLS. DP	60.60	FT.
	D.C. OD		FT.
12	6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	24.03	FT.
	TOTAL	5560.00	FT.
WT OF STRING		100,000	LBS.

DRILLER: L. Mill

WEATHER CONDITIONS: -32°

BIT RECORD

Drilling or Core Bit No.	62
TYPE	H7
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	320326
DEPTH IN	5543
DEPTH OUT	
FT. DRILLED	17
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	5 1/2
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5543	17		5560		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	48	5 3/4
PUMP No. 2	CIBC TANKS	5 1/2		8

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
4:00	4:15		1/4	RIG SERVICE & CHECK B.O.P.
4:15	5:00		3/4	SLIP & CUT LINE SLIP 22' CUT 44'
5:00	6:15	1	1/4	RUN IN W/BIT #62 LAY DOWN STABILIZER
6:15	6:30		1/4	BREAK CIRC & CLEAN OUT TO BOTTOM.
6:30	12:00	5	1/2	DRILLING 7 7/8" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	1	10.	10	10
VISC.	T	135	128	123
W.L.-C.C.	B	6.4	6.8	6.4
FLTR. CK.	.	2/32	2/32	2/32
pH	L	9.5	9.5	9.5
SD. CONT.	P			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	449
FEET CUT OFF	440
PRESENT LENGTH	3043
TON MI. or TRIPS SINCE LAST CUT	40
CUMULATIVE TON MI. or TRIPS	2763

NO. OF DAYS FROM SPUD	76
CUMULATIVE ROTATING HRS.	842 1/2
DAYS SINCE LAST ACCDNT.	105
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	376
DAY TOUR	328
EVENING TOUR	203

REPORT No. 76

DATE: MARCH 8 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4 1/2
TOOL JOINT: 5 3/4 OD — TYPE THD. FH
DRILL PIPE GRADE: 2-3
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: RO CORP GRANDVIEW HILLS — No. 1
PROVINCE: N.W.T.
OPERATOR'S REPRESENTATIVE:
CONTRACTOR'S TOOL PUSHER: H. Holan

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Mom	Day	Eve
DRILLING	1		4
TRIPPING	3 1/4	2 1/4	9/4
RIG MAINTENANCE	3/4	1/4	1/4
RIG REPAIRS		2 3/4	
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	5	2 3/4	8
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	427
FEET CUT OFF	396
PRESENT LENGTH	3087
TON MI. or TRIPS SINCE LAST CUT	280
CUMULATIVE TON MI. or TRIPS	2603
NO. OF DAYS FROM SPUD	75
CUMULATIVE ROTATING HRS.	827 3/4
DAYS SINCE LAST ACCDNT.	104
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	375
DAY TOUR	327
EVENING TOUR	202

MORNING TOUR

NO.	DRILLING ASSEMBLY		
56	STANDS DP	5103.25	FT.
	SNGLS. DP	✓	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	23.53	FT.
	TOTAL	5503.00	FT.
WT OF STRING		97,000	LBS.
DRILLER	H. Holan		
WEATHER CONDITIONS	Cool -25°		

BIT RECORD		
Drilling or Core Bit No.	59	55B
TYPE	H7	W7R
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	35 7143	65445
DEPTH IN	5459	5503
DEPTH OUT	5503	0
FT. DRILLED	44	0
FT. REAMED		0
FT. CORED		0
CUM. HRS. RUN	13 1/2	3
CONDITION	(Dull OOG BAD)	G. H. E.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5500	3		5503		85	28
5450		45	5495		120	3-4

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	50	4
PUMP No. 2	ON TANKS	5 1/2		7 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12 00	1 00	1		DRILL 7 7/8" HOLE
1 00	1 15		1/4	RIG SERV CHECK BOP'S
1 15	3 00	1	3/4	PULL OUT W/ BIT # 59
3 00	3 30		1/2	SLIP 20' DRLG LINE
3 30	5 00	1.	1/2	RUN IN W/ BIT # 55B
5 00	8 00	3		REAM OOG HOLE. FROM 5450 TO 5495

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2			10.
VISC.	150			145
W.L.-C.C.				6
FLTR. CK.				2/32
pH				9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
56	STANDS DP	5103.25	FT.
	SNGLS. DP		FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
1	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	24.53	FT.
	TOTAL	5504.03	FT.
WT OF STRING		98 M	LBS.
DRILLER	E. Williams		
WEATHER CONDITIONS	-15°		

BIT RECORD		
Drilling or Core Bit No.	55B	60
TYPE	W7R	W7
SIZE	7 7/8	7 7/8
NOZZ. SIZE	11/16	11/16
SERIAL No.	65445	83551
DEPTH IN	5450	5504
DEPTH OUT	5504	
FT. DRILLED	1	
FT. REAMED	53	
FT. CORED		
CUM. HRS. RUN	5 3/4	
CONDITION	DULL OOG NEW	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5503	1		5504		150	3/4
5495		8	5503		85	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	50	2 3/4
PUMP No. 2	ON TANKS	5 1/2		7 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
7 00	8 15		1/4	RIG SERV CHECK BOP'S 3 1/2" - 4" RUNNING BIT
8 15	11 00	2	3/4	REAM OOG HOLE DRL LFT (REAM INTERVAL 5495 - 5503)
11 00	11 30		1/2	PULL OUT
11 30	12 00		1/2	WORK ON CATHEAD
12 00	12 45		3/4	PULL OUT
12 45	1 00		1/4	REPAIR LOW CHAIN
1 00	1 15		1/4	PULL OUT
1 15	3 15	2		INSTALL NEW CHAIN IN DWKS & WELDING ON SAME

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1			
VISC.	107			
W.L.-C.C.	6.4			
FLTR. CK.	2/32			
pH	9.5			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
56	STANDS DP	5103.25	FT.
	SNGLS. DP		FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
1	STB BODY 6 1/4 OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	35.53	FT.
	TOTAL	5514.00	FT.
WT OF STRING		100,000	LBS.
DRILLER	E. Mill		
WEATHER CONDITIONS	-26°		

BIT RECORD		
Drilling or Core Bit No.	60	
TYPE	W7	
SIZE	7 7/8	
NOZZ. SIZE	11/16	
SERIAL No.	83551	
DEPTH IN	5504	
DEPTH OUT		
FT. DRILLED	10	
FT. REAMED	16 3HRS O.O.G. HOLE	
FT. CORED		
CUM. HRS. RUN	4	
CONDITION	IN	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5504	10		5514		85	28
5488		16	5504	REAM O.O.G. HOLE	90	2-3

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	48	7
PUMP No. 2	FIRE TANKS	5 1/2		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4 00	4 45		3/4	FINISH IN W/ BIT # 60
4 45	5 00		1/4	RIG SERVICE & CHECK BOP'S
5 00	8 00	3		REAM O.O.G. HOLE FROM (5488 TO 5504) - 16'
8 00	12 00	4		DRILLING 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.1	10.1	10.0
VISC.	130	140	140	140
W.L.-C.C.	6.4	6.4	6.2	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	250#		
CAUSTIC	15#		
TANNATHIN	50#		

REPORT No. 76

DATE: MARCH 7

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4 1/2
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. P. Brown.
CONTRACTOR'S TOOL PUSHER: Norm Tooker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	5 1/4	4 3/4	7 3/4
TRIPPING	2 1/2	2 1/2	
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		1/2	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/4
FEET SLIPPED	405
FEET CUT OFF	396
PRESENT LENGTH	3087
TON MI. or TRIPS SINCE LAST CUT	120
CUMULATIVE TON MI. or TRIPS	2443
NO. OF DAYS FROM SPUD	74
CUMULATIVE ROTATING HRS.	814
DAYS SINCE LAST ACCDNT.	103
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	374
DAY TOUR	326
EVENING TOUR	201

MORNING TOUR

NO.	DRILLING ASSEMBLY		
55	STANDS DP	5012.46	FT.
1	SNGLS. DP	30.41	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	40.65	FT.
	TOTAL	5459.73	FT.
WT OF STRING		98,000	LBS.
DRILLER		R. Nolan	
WEATHER CONDITIONS		CLEAR - 22°	

BIT RECORD	
Drilling or Core Bit No	58
TYPE	M4L
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	3 78630
DEPTH IN	5429
DEPTH OUT	5459
FT. DRILLED	30
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	9 3/4
CONDITION	Dull OOG

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5445	14		5459		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	56	4 1/4
PUMP No. 2	600	5 1/2	60	1

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12 00	12 15		1/4	RIG SERV CHECK BOP'S
12 15	5 30	5	1/4	DRILL 5459' 7 7/8" HOLE
5 30	7 30	2		PULL OUT CHECK FOR WASH OUT DROP IN PUMP PRESSURE
7 30	9 00		1/2	CHANGE BITS START IN

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2		
VISC.	105	106		
W.L.-C.C.	6.4	6.2		
FLTR. CK.	2/32	2/32		
pH	9	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
55	STANDS DP	5012.46	FT.
2	SNGLS. DP	61.53	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	22.29	FT.
	TOTAL	5478.00	FT.
WT OF STRING		98M	LBS.
DRILLER		B. Williams	
WEATHER CONDITIONS		-40°	

BIT RECORD	
Drilling or Core Bit No.	59
TYPE	H7
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	357143
DEPTH IN	5459
DEPTH OUT	
FT. DRILLED	19
FT. REAMED	10 OOG 1/2 HR
FT. CORED	
CUM. HRS. RUN	48 1/4
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5459	19		5478			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	50	
PUMP No. 2	CIR TANK	5 1/2		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8 00	8 15		1/4	RIG SERV CHECK BOP'S
8 15	10 45	2	1/2	RUN IN CHECK FOR WASHOUT LAY DOWN WASHED SINGLE
10 45	11 15		1/2	BREAK CIRC REAM 11' OOG HOLE
11 15	4 00	4	3/4	DRLG 7 7/8 HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T	10.2	10.2	10.2
VISC.	R	124	102	106
W.L.-C.C.	I	5.8	6.4	6.4
FLTR. CK.	P	2/32	2/32	2/32
pH	ELIM	9	9	9
SD. CONT.	2 HRS			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
56	STANDS DP	5103.25	FT.
	SNGLS. DP		FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS 6 1/4 OD	4.10	FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	20.53	FT.
	TOTAL	5500.00	FT.
WT OF STRING		98,000	LBS.
DRILLER		E. Mill	
WEATHER CONDITIONS		-18°	

BIT RECORD	
Drilling or Core Bit No.	59
TYPE	H7
SIZE	7 7/8
NOZZ. SIZE	11/16
SERIAL No.	357143
DEPTH IN	5459
DEPTH OUT	
FT. DRILLED	41
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	12 1/2
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5478	22		5500		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	68	7
PUMP No. 2	675	5 1/2	62	3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4 00	4 15		1/4	RIG SERV & CHECK B.O.P.'S (LOST 20 BBLS MUD TO FORMATION @ 5490
4 15	12 00	7	3/4	DRILLING 7 7/8" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10.2
VISC.	104	103	140	180
W.L.-C.C.	6.4	6.4	6.4	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2600 #		
CAUSTIC	30 #		
TANNATHIN	100 #		
SAWDUST	6 SAX		

REPORT No. 75

DATE: MARCH 6. 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: B.A. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD
TYPE THD.: F.H.
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Carter

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4¼	6¼	4½
TRIPPING	3	1¼	1¾
RIG MAINTENANCE	¼	½	¼
RIG REPAIRS			1¼
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	¼		½
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES / SIZE	6 / 1⅛
FEET SLIPPED	405
FEET CUT OFF	396
PRESENT LENGTH	3087
TON MI. or TRIPS SINCE LAST CUT	40
CUMULATIVE TON MI. or TRIPS	2363
NO. OF DAYS FROM SPUD	73
CUMULATIVE ROTATING HRS.	796¼
DAYS SINCE LAST ACCDNT.	102
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	200
DAY TOUR	313
EVENING TOUR	325

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
55	STANDS DP	5012.46 FT.	Drilling or Core Bit No.	56	57
	SNGLS. DP	FT.	TYPE	H7	OWV
	D.C. OD	FT.	SIZE	7⅞	7⅞
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	310324	91856
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	5362	5405
	SUBS OD	FT.	DEPTH OUT	5405	
	BIT OR C.B.	.60 FT.	FT. DRILLED	43	5
		FT.	FT. REAMED		
	Kelly Down	21.32 FT.	FT. CORED		
	TOTAL	5410.00 FT.	CUM. HRS. RUN	13¼	1¼
WT OF STRING		98,000 LBS.	CONDITION	Dull	IN

DRILLER: E. Mill
WEATHER CONDITIONS: −10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5393	17		5410		85	28 / 20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4½
PUMP No. 2	CIRC TANKS	5½		1¼

DEVIATION RECORD: DEPTH 5400 DEV. ½° DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	RIG SERV. & CHECK B.O.P.
12¹⁵	3¹⁰	3		DRILLING 7⅞" HOLE
3¹⁰	3²⁰		¼	SURVEY
3²⁰	6³⁰	3		TRIP FOR BIT
6³⁰	6⁴⁵		¼	BREAK CIRC & CLEAN OUT TO BOTTOM
6⁴⁵	8⁰⁰	1	¼	DRILLING 7⅞" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	T	10.2
VISC.	115	115		123
W.L.-C.C.	6	6.2	R	5.8
FLTR. CK.	2/32	2/32	I	2/32
pH	9	9	P	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
55	STANDS DP	5012.46 FT.	Drilling or Core Bit No.	57	
	SNGLS. DP	FT.	TYPE	OWV	
	D.C. OD	FT.	SIZE	7⅞	
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	91856	
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	5405	
	SUBS OD	FT.	DEPTH OUT	5429	
	BIT OR C.B.	.60 FT.	FT. DRILLED	24	
		FT.	FT. REAMED		
	Kelly Down	29.65 FT.	FT. CORED		
	TOTAL	5429.33 FT.	CUM. HRS. RUN	7½	
WT OF STRING		98,000 LBS.	CONDITION	Dull	

DRILLER: R. Nolan
WEATHER CONDITIONS: SUNNY + 10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5410	19		5429		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	6¼
PUMP No. 2	ON TANKS	5½		4

DEVIATION RECORD: DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	RIG SERV. CHECK BOP'S
8¹⁵	2³⁰	6	¼	DRILL 7⅞" HOLE
2³⁰	2⁴⁵		¼	CHECK DRLG LINE
2⁴⁵	4⁰⁰	1	¼	PULLING OUT W/ BIT #57

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	
VISC.	130	120	113	
W.L.-C.C.	6.2	6.4	6.4	
FLTR. CK.	3/32	2/32	2/32	
pH	9	9.5	9.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000 #		
CAUSTIC	40 #		
A-X	50 #		
[illegible]	50 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
55	STANDS DP	5012.46 FT.	Drilling or Core Bit No.	58	
1	SNGLS. DP	30.41 FT.	TYPE	M44	
	D.C. OD	FT.	SIZE	7⅞	
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	378630	
1	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	5429	
	SUBS OD	FT.	DEPTH OUT		
	BIT OR C.B.	.60 FT.	FT. DRILLED	16	
		FT.	FT. REAMED		
	Kelly Down	25.91 FT.	FT. CORED		
	TOTAL	5445.00 FT.	CUM. HRS. RUN	4½	
WT OF STRING		98M LBS.	CONDITION	IN	

DRILLER: R. Williams
WEATHER CONDITIONS: −15°0

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5429	16		5445		85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4
PUMP No. 2	550	5½		12

DEVIATION RECORD: DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4³⁰		½	PULL OUT OF HOLE
4³⁰	4⁴⁵		¼	RIG SERV + CHECK BOP'S
4⁴⁵	5⁴⁵	1		SLIP 105' DRLG LINE CUT 105' DRLG LINE
5⁴⁵	7⁰⁰	1	¼	RUN IN W/ BIT #58
7⁰⁰	7³⁰		½	REAM 10' TO BOTTOM
7³⁰	12⁰⁰	4	½	DRLG 7⅞ HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T	C	10.2	
VISC.	R	I	107	
W.L.-C.C.	I	K	6.4	
FLTR. CK.	P	2	2/32	
pH	E	HRS	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 74

DATE: MARCH 5, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD
TYPE THD.: F.H.
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. P. Brown
CONTRACTOR'S TOOL PUSHER: Lloyd Carter
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP. GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	5¾	14½	7¾
TRIPPING	1¼	3½	
RIG MAINTENANCE	¼	1¼	¼
RIG REPAIRS	½		
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	¼		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	300
FEET CUT OFF	291
PRESENT LENGTH	3192
TON MI. or TRIPS SINCE LAST CUT	114
CUMULATIVE TON MI. or TRIPS	2703
NO. OF DAYS FROM SPUD	72
CUMULATIVE ROTATING HRS.	781
DAYS SINCE LAST ACCDNT.	101
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	199
DAY TOUR	372
EVENING TOUR	324

MORNING TOUR

NO.	DRILLING ASSEMBLY		
54	STANDS DP	4920.93	FT.
1	SNGLS. DP	30.47	FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
1	STB BODY 6¼ OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	23.38	FT.
	TOTAL	5356.00	FT.
WT OF STRING		98,000	LBS.

BIT RECORD

Drilling or Core Bit No.	55
TYPE	W7R
SIZE	7⅞
NOZZ. SIZE	11/16
SERIAL No.	654435
DEPTH IN	5345
DEPTH OUT	
FT. DRILLED	11
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	5¾
CONDITION	1N

DRILLER: E. Mill
WEATHER CONDITIONS: +10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5345	11		5356		65	15-20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	6
PUMP No. 2		5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	Rig Service & Check B.O.P³
12¹⁵	12⁴⁵		½	Repair Chain in Dwks.
12⁴⁵	2⁰⁰	1	¼	Runin w/Bit # 55
2⁰⁰	2¹⁵		¼	Break Circ & Clean Out To Bottom.
2¹⁵	8⁰⁰	5	¾	Drilling 7⅞ Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T	10.2	10.2	10.2
VISC.	B	118	112	112
W.L.-C.C.	1⁰	6.2	6.8	6.6
FLTR. CK.	P	2/32	2/32	2/32
pH		9.	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
54	STANDS DP	4920.93	FT.
2	SNGLS. DP	61.01	FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	10.84	FT.
	TOTAL	5369	FT.
WT OF STRING		97,000	LBS.

BIT RECORD

Drilling or Core Bit No.	55	56
TYPE	W7R	H7
SIZE	7⅞	7⅞
NOZZ. SIZE	11/16	11/16
SERIAL No.	654455	310361
DEPTH IN	5345	5362
DEPTH OUT	5362	
FT. DRILLED	17	7
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	7¾	2½
CONDITION	Good	1N

DRILLER: P. Nolan
WEATHER CONDITIONS: CLEAR, WINDY +20°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5356	13		5362		65	15-20
5362			5369		65&80	20&25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4½
PUMP No. 2	ON TANKS	5½		2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	10⁰⁰	2		Drill 9" Hole
10⁰⁰	10¹⁵		¼	Rig Ser. Check BOPS
10¹⁵	1³⁰	3	¼	Trip For N.B.
1³⁰	4⁰⁰	2	½	Drill 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2			10.2
VISC.	112			115
W.L.-C.C.	6.8			6.4
FLTR. CK.	2/32			2/32
pH	9.			9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	25#		
Q-X	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
54	STANDS DP	4920.93	FT.
2	SNGLS. DP	61.01	FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	34.84	FT.
	TOTAL	5393	FT.
WT OF STRING		98M	LBS.

BIT RECORD

Drilling or Core Bit No.	56
TYPE	H7
SIZE	7⅞
NOZZ. SIZE	11/16
SERIAL No.	310361
DEPTH IN	5362
DEPTH OUT	
FT. DRILLED	31
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	10¼
CONDITION	1N

DRILLER: B. Williams
WEATHER CONDITIONS: SNOWING +9

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5369	24		5393		80	25-6
					85	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	7¾
PUMP No. 2	C12 TANK	5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	Rig Serv Check BOP's
4¹⁵	12⁰⁰	7	¾	Drlg 7⅞ Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10.2
VISC.	114	109	115	115
W.L.-C.C.	6.2	6.2	6.6	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 73

DATE: MARCH 4, 60

DAILY DRILLING REPORT

OPERATOR: BIGFIELD Oil CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: F.H.
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Baker

LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: B.O. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	4½	4¼
TRIPPING		3¼	2¼
RIG MAINTENANCE	¼	1¼	1½
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1'18
FEET SLIPPED	300
FEET CUT OFF	291
PRESENT LENGTH	3192
TON MI. or TRIPS SINCE LAST CUT	0
CUMULATIVE TON MI. or TRIPS	2089
NO. OF DAYS FROM SPUD	71
CUMULATIVE ROTATING HRS.	763
DAYS SINCE LAST ACCDNT.	106
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	198
DAY TOUR	371
EVENING TOUR	323

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
54	STANDS DP	4920.93 FT.	Drilling or Core Bit No.	53
	SNGLS. DP	FT.	TYPE	OWC
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	12932
	STB BODY OD	FT.	DEPTH IN	5300
	SUBS OD	.60 FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	27
		FT.	FT. REAMED	
	Kelly Down	33.95 FT.	FT. CORED	
	TOTAL	5327.00 FT.	CUM. HRS. RUN	9 3/4
WT OF STRING	98,000 LBS.		CONDITION	IN
DRILLER	L. Mill			
WEATHER CONDITIONS				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5306	21		5327		80	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	7¾
PUMP No. 2	CIRC TANKS	5½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	12¼	¼	Rig Serv & Check B.O.P.'s
12¼	8⁰⁰	7¾	Drilling 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	10.2	10.2	10.2	10.2
VISC.	105	108	107	105
W.L.-C.C.	6.2	6.4	6.4	6.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
54	STANDS DP	4920.93 FT.	Drilling or Core Bit No.	53	54
1	SNGLS. DP	20.47 FT.	TYPE	OWC	HT
	D.C. OD	FT.	SIZE	9"	7 7/8
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	12932	302036
	STB BODY OD	FT.	DEPTH IN	5300	5327
	SUBS OD	FT.	DEPTH OUT	5327	
	BIT OR C.B.	.60 FT.	FT. DRILLED	37	
		FT.	FT. REAMED		
	Kelly Down	13.48 FT.	FT. CORED		
	TOTAL	5332.00 FT.	CUM. HRS. RUN	14 1/4	
WT OF STRING	98,000 LBS.		CONDITION	100% Dull	
DRILLER	B. Nolan				
WEATHER CONDITIONS	+2°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5327	10		5331		80	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4 1/2
PUMP No. 2	ON TANKS	5½		2.

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	8¹⁵	¼	Rig Serv Check BOP's
8¹⁵	12⁴⁵	4 ½	Drlg 9" Hole
12⁴⁵	4⁰⁰	3 ¼	Trip for N.B. Pickup Stab's

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2		
VISC.	44	104		
W.L.-C.C.	6.2	6.4		
FLTR. CK.	2/32	2/32		
pH	9	8.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
54	STANDS DP	4920.93 FT.	Drilling or Core Bit No.	54	55
	SNGLS. DP	36.47 FT.	TYPE	HT	WTR
	D.C. OD	FT.	SIZE	7 7/8	7 7/8
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	302036	654[illegible]
	STB BODY OD	4.10 FT.	DEPTH IN	5327	
	SUBS OD	FT.	DEPTH OUT	5345	
	BIT OR C.B.	.60 FT.	FT. DRILLED	8	
		FT.	FT. REAMED		
	Kelly Down	17.38 FT.	FT. CORED		
	TOTAL	5345.00 FT.	CUM. HRS. RUN	4 1/4	
WT OF STRING	100 M LBS.		CONDITION	DULL	NEW
DRILLER	B. Williams				
WEATHER CONDITIONS	-2°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5337	8		5345		85	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4¼
PUMP No. 2	CIR TANK	5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	¼	Rig Serv Check Bop's
4¹⁵	8³⁰	4 ¼	Drlg 7⅞ Hole
8³⁰	1⁰⁵	1 ¾	Pull out of Hole
1⁰⁵	1⁴⁵	½	Run in DC's
1⁴⁵	2⁰⁰	1 ¼	Slip 180' Cut 40' Drlgline

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.3		
VISC.	107	115		
W.L.-C.C.	6.4	6.4		
FLTR. CK.	2/32	2/32		
pH	9	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	500#		
Caustic	15#		
Tannathal	50#		

REPORT No. 72

DATE: MARCH 3, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. Corp Grandview Hills No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD
TYPE THD.: F.H.
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Wm Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4½	7¾	3¾
TRIPPING	2¼		3
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS			¾
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	¼		¼
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	¾	1	
SUB TOTAL	8	8	
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	8 SIZE 1/18
FEET SLIPPED	~~200~~ 190
FEET CUT OFF	~~200~~ 181
PRESENT LENGTH	3302
TON MI. or TRIPS SINCE LAST CUT	114
CUMULATIVE TON MI. or TRIPS	1925
NO. OF DAYS FROM SPUD	70
CUMULATIVE ROTATING HRS.	746½
DAYS SINCE LAST ACCDNT.	99
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	197
DAY TOUR	370
EVENING TOUR	322

MORNING TOUR

NO.	DRILLING ASSEMBLY		
53	STANDS DP	4829.33	FT.
1	SNGLS. DP	30.40	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	37.15	FT.
	TOTAL	5269.00	FT.
WT OF STRING		98,000	LBS.

BIT RECORD

Drilling or Core Bit No.	51
TYPE	OWC
SIZE	9
NOZZ. SIZE	11/16
SERIAL No.	12935
DEPTH IN	5256
DEPTH OUT	
FT. DRILLED	13
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	4½
CONDITION	IN

DRILLER: E. Mill
WEATHER CONDITIONS: + 12° SNOWING

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5256	13		5269		80	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4¾
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5250	½°							

From	To	Elapsed Time		REMARKS
12⁰⁰	12⁴⁵		¾	FINISH OUT W/BIT
12⁴⁵	1⁰⁰		¼	RIG SERVICE & CHECK B.O.P's
1⁰⁰	1⁴⁵		¾	SLIP & CUT DRILLING LINE (SLIP 22' CUT 44')
1⁴⁰	3¹⁵	1	½	RUN IN W/BIT #51
3¹⁵	3³⁰		¼	BREAK CIRC & CLEAN OUT TO BOTTOM.
3³⁰	8⁰⁰	4	½	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T		10.2	10.2
VISC.	R		128	117
W.L.-C.C.			6.2	6.2
FLTR. CK.	1		2/32	2/32
pH		P	9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
53	STANDS DP	4829.33	FT.
2	SNGLS. DP	61.17	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	60	FT.
			FT.
	Kelly Down	30.45	FT.
	TOTAL	5293.00	FT.
WT OF STRING		98,000	LBS.

BIT RECORD

Drilling or Core Bit No.	51
TYPE	OWC
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	12935 0
DEPTH IN	5256
DEPTH OUT	
FT. DRILLED	37
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	18¼
CONDITION	IN

DRILLER: B. Nolan
WEATHER CONDITIONS: SNOW VERY WINDY + 10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5269	24		5293		80	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	7¾
PUMP No. 2	ON TANKS	5½		4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	RIG SERV CHECK BOP'S
8¹⁵	4⁰⁰	7	¾	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10.2
VISC.	106	104	100	97
W.L.-C.C.	6	6.2	6	6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.	9.	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
	1		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
54	STANDS DP	4920.93	FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	12.95	FT.
	TOTAL	5306.00	FT.
WT OF STRING		98M	LBS.

BIT RECORD

Drilling or Core Bit No.	52	53
TYPE	OWC	OWC
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	12935	12932
DEPTH IN	5256	5300
DEPTH OUT	5300	
FT. DRILLED	44	6
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	14	2
CONDITION	DULL	IN

DRILLER: B. Williams
WEATHER CONDITIONS: A YOUNG HURRICANE + 6

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5293	13		5306		80	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	3¾
PUMP No. 2		5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4¹⁰	5⁴⁵	1	¾	DRIG 9" HOLE
5⁴⁵	7¹⁵	1	½	PULL OUT OF HOLE
7¹⁵	7³⁰		¼	RIG SERV CHECK BOP'S
7²⁰	8¹⁵		¾	TIEING DOWN PREFABS
8¹⁵	9⁴⁵	1	½	RUN IN W/ BIT #53
9⁴⁵	10⁰⁰		¼	BREAK CIRC RIG TO BOTTOM
10⁰⁰	12⁰⁰	2		DRIG 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	T	T	10.2
VISC.	105	R		108
W.L.-C.C.	6.4	1	6	5.6
FLTR. CK.	3/32	P	1	2/32
pH	9		8	9
SD. CONT.		2 HRS		

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 71

DATE: MARCH 2, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. Corp. Carnoview Hills No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD, TYPE THD. F.H | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. C. Broom. | CONTRACTOR'S TOOL PUSHER: Mary Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3	3 3/4	6 1/2
TRIPPING	3	3 1/4	1
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS			1/4
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	1 1/4	3/4	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	1/2		
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 2

NO. OF LINES 6	SIZE 1 1/8
FEET SLIPPED	— 1128
FEET CUT OFF	— 1354
PRESENT LENGTH	3346
TON MI. or TRIPS SINCE LAST CUT	458
CUMULATIVE TON MI. or TRIPS	1861
NO. OF DAYS FROM SPUD	69
CUMULATIVE ROTATING HRS.	731 1/2
DAYS SINCE LAST ACCDNT.	98
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	196
DAY TOUR	369
EVENING TOUR	321

MORNING TOUR

NO.	DRILLING ASSEMBLY		
53	STANDS DP	4829.33	FT.
	SNGLS. DP		FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
		O.O.G.	FT.
	Kelly Down	A.55	FT.
	TOTAL	5221.00	FT.
WT OF STRING		95,000	LBS.
DRILLER		L. Mill	
WEATHER CONDITIONS		+18°	

BIT RECORD

Drilling or Core Bit No.	48	49
TYPE	W7	M4L
SIZE	9	9
NOZZ. SIZE	11/16	11/16
SERIAL No.	32267	352100
DEPTH IN	5198	5212
DEPTH OUT	5212	
FT. DRILLED	14	9
FT. REAMED	15-4	11-1¼
FT. CORED		
CUM. HRS. RUN	5¾	2¾
CONDITION	DULL	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5211	10		5221		80	28
5200		16	5216	REAMED O.O.G. HOLE	80	2

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4¼
PUMP No. 2		5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹³		1/4	DRILLING 9" HOLE.
12¹³	12³⁰		1/4	RIG SERVICE & CHECH B.O.P's
12³⁰	2¹⁵	1	3/4	PULL OUT W/BIT.
2¹⁵	2⁴⁵		1/2	SLIP DRILLING LINE 22'
2⁴⁵	4⁰⁰	1	1/4	RUN IN W/BIT # 49
4⁰⁰	5¹³	1	1/4	REAM O.O.G. HOLE FROM 5201 TO 5212.
5¹³	8⁰⁰	2	3/4	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T		10.2	10.2
VISC.	R		105	102
W.L.-C.C.	I		6.4	6.4
FLTR. CK.	P		2/32	2/32
pH			9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
53	STANDS DP	4829.33	FT.
	SNGLS. DP		FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
		O.O.G.	FT.
	Kelly Down	31.55	FT.
	TOTAL	5233.00	FT.
WT OF STRING		95,000	LBS.
DRILLER		R. Nolan	
WEATHER CONDITIONS		+20°	

BIT RECORD

Drilling or Core Bit No.	49	50
TYPE	M4L	M4L
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	352100	367139
DEPTH IN	5212	5228
DEPTH OUT	5228	
FT. DRILLED	16	5
FT. REAMED	14-3/4 in	
FT. CORED		
CUM. HRS. RUN	5	1 3/4
CONDITION	Dull OOG	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5221	12		5128		80	28
5128			5133		60 80	24 28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	3 3/4
PUMP No. 2	0	5½	0	0

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	10⁰⁰	2		DRILL 9" HOLE.
10⁰⁰	10¹⁵		1/4	RIG SERV
10¹⁵	12⁰⁰	1	3/4	PULL OUT W/ BIT # 49
12⁰⁰	1³⁰	1	1/2	CHANGE BITS CHECK BOP'S RUN IN W/ BIT # 50
1³⁰	2¹⁵		3/4	BREAK CIRC REAM 14' TO BOTM
2¹⁵	4⁰⁰	1	3/4	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2			10.2
VISC.	105			110
W.L.-C.C.	6.4			5.8
FLTR. CK.	2/32			2/32
pH	9.			9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000 #		
CAUSTIC	25 #		
Q-X	50 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
53	STANDS DP	4829.33	FT.
1	SNGLS. DP	30.40	FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
		O.O.G.	FT.
	Kelly Down	24.15	FT.
	TOTAL	5156.00	FT.
WT OF STRING		94M	LBS.
DRILLER		B. Williams	
WEATHER CONDITIONS		+15°	

BIT RECORD

Drilling or Core Bit No.	50
TYPE	M4L
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	367139
DEPTH IN	5228
DEPTH OUT	5256
FT. DRILLED	28
FT. REAMED	14'-3/4 HR
FT. CORED	
CUM. HRS. RUN	8 1/4
CONDITION	DULL

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5133	23		5156		80	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		1/4	RIG SERV CHECK BOP's
4¹⁵	10⁴⁵	6	1/2	DRLG 9" HOLE
10⁴⁵	11⁰⁰		1/4	SURVEY
11⁰⁰	12⁰⁰	1		PULL OUT OF HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	
VISC.	120	120	132	
W.L.-C.C.	5.8	6.4	6.4	
FLTR. CK.	2/32	2/32	2/32	
pH	9.5	9	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500 #		
CAUSTIC	15 #		
TANNATHIN	50 #		

REPORT No. 70

DATE: MARCH 1, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
OPERATOR'S REPRESENTATIVE: J. P. Burns
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD
TYPE THD.: F.H
CONTRACTOR'S TOOL PUSHER: Don Parker
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP. GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.

DRILL PIPE GRADE

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil Well	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	2¾	13¼	4½
TRIPPING	1	2¼	3¼
RIG MAINTENANCE	¼	1¼	¼
RIG REPAIRS		3½	1½
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	4		1
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 2
NO. OF LINES 6 SIZE 1/18
FEET SLIPPED —126
FEET CUT OFF —154
PRESENT LENGTH 3346
TON MI. or TRIPS SINCE LAST CUT 306
CUMULATIVE TON MI. or TRIPS 1209

NO. OF DAYS FROM SPUD 68
CUMULATIVE ROTATING HRS. 718 1/4
DAYS SINCE LAST ACCDNT. 97
DRILLER ACCDNT. FREE DAYS
MORNING TOUR 195
DAY TOUR 368
EVENING TOUR 320

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
52	STANDS DP	4238.19 FT.	Drilling or Core Bit No.	47
2	SNGLS. DP	60.61 FT.	TYPE	H7
	D.C. OD	FT.	SIZE	9
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	377825
	STB BODY OD	FT.	DEPTH IN	5184
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	9
		FT.	FT. REAMED	15 100G HOLE 15 HRS.
	Kelly Down	22.08 FT.	FT. CORED	
	TOTAL	5193.00 FT.	CUM. HRS. RUN	2¾
WT OF STRING		94,000 LBS.	CONDITION	IN

DRILLER: E. Miell
WEATHER CONDITIONS: +18°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5184	9		5193		80	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	6¾
PUMP No. 2	CIRC TANK	5½		6¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12 45	12 55		¼	RIG SERV. & CHECK B.O.P.'S
12 55	1 15	1		FINISH IN W/BIT # H7 LAY DOWN 2 STABILIZERS.
1 15	5 15	4		BREAK CIRC & REAM UNDER GAGE HOLE FROM 5169' TO 5184'
5 15	8 00	2	¾	DRILLING 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T	10.2	10.2	10.2
VISC.	B	115	106	104
W.L.-C.C.	I	6.4	6.8	6.4
FLTR. CK.	P	2/32	2/32	2/32
pH		9.	9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
DRISCOSE	25	RED	
TANNATHIN	50		
CAUSTIC	10		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
52	STANDS DP	4738.19 FT.	Drilling or Core Bit No.	47	48
2	SNGLS. DP	60.61 FT.	TYPE	H7	W7
	D.C. OD	FT.	SIZE	9"	9"
12	6 1/4 OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	5184	32267
	STB BODY OD	FT.	DEPTH IN		5198
	SUBS OD	FT.	DEPTH OUT	5198	
	BIT OR C.B.	.60 FT.	FT. DRILLED	14	
		FT.	FT. REAMED	15 000 4 HRS	
	Kelly Down	27.08 FT.	FT. CORED		
	TOTAL	5198 FT.	CUM. HRS. RUN	4 1/2	
WT OF STRING		94,000 LBS.	CONDITION	FAIR & OOG	

DRILLER: B. Nelson
WEATHER CONDITIONS: SUNNY + 20°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5193	5		5198		80	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	2
PUMP No. 2		6½	60	NIL

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8 00	8 15		¼	RIG SERV CHECK BOP'S
8 15	10 00	1	¾	DRILL 9" HOLE
10 00	11 45	1	¾	PULL OUT W/BIT # 47. CHECK BLIND RAMS
11 45	3 15	3	½	W.O. COMPOUND SHIFTER REMOVE 1 BRAK BAND STRAIGTEN SAME W.O. ON BRAKE LINKAGE
3 15	4 00		¾	RUN IN W/BIT # 48

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2			
VISC.	105			
W.L.-C.C.	6.2			
FLTR. CK.	2/32			
pH	9			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
52	STANDS DP	4738.19 FT.	Drilling or Core Bit No.	48
2	SNGLS. DP	60.61 FT.	TYPE	W7
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	32267
	STB BODY OD	FT.	DEPTH IN	5198
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	13
		FT.	FT. REAMED	10
	Kelly Down	40.65 FT.	FT. CORED	
	TOTAL	5211.00 FT.	CUM. HRS. RUN	5 1/2
WT OF STRING		94M LBS.	CONDITION	IN

DRILLER: B. Williams
WEATHER CONDITIONS: + 25°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5198	13	-	5211		78	25
5188	—	10	5198	REAMED OOG HOLE	80	243

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	5½
PUMP No. 2	900	6½	50	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4 00	4 15		¼	RIG SERV CHECK BOP'S
4 15	5 00		¾	FINISH RUNNING IN HOLE
5 00	6 00	1		REAM OOG HOLE INTERVAL 5188 - 5198
6 00	9 00	3		DRLG 9" HOLE
9 00	10 30	1	½	INSTALL WASH PIPE & PACKING IN SWIVEL
10 30	12 00	1	½	DRLG 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T 5	10.2	10.2	10.2
VISC.	R C	110	102	104
W.L.-C.C.	I I	6.2	6.2	6.4
FLTR. CK.	P R	2/32	2/32	2/32
pH	2 HR	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 69

DATE: FEB. 29, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD
TYPE THD.: F.H.
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Wm Parker
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. Corp Grandview Hills No. 1
PROVINCE: N.W.T.

PUMPS No.	MANUFACTURER	TYPE
1.	Oil Well	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

NO.	DRILLING ASSEMBLY		
52	STANDS DP	4738.19	FT.
1	SNGLS. DP	30.46	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY 6¼ OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	36.06	FT.
	TOTAL	5181.00	FT.
WT OF STRING		103,000	LBS.
DRILLER		E. Mill	
WEATHER CONDITIONS		-2°	

BIT RECORD		
Drilling or Core Bit No.	46	45-B
TYPE	W7	W7
SIZE	9	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	32245	32272
DEPTH IN	5145	
DEPTH OUT	5184	
FT. DRILLED	39	
FT. REAMED		12
FT. CORED		
CUM. HRS. RUN	16¾	3½
CONDITION	Bald	in

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5180	4		5184		80	30
5164		12	5176	REAM UNDERGAGE HOLE	150	2-3

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4½
PUMP No. 2		5½		

DEVIATION RECORD: DEPTH 5180 DEV. ¾° DIRECTION

DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	1⁰⁰	1		DRILLING 9" HOLE
1⁰⁰	1¹⁵		¼	RIG SERV. & CHECK B.O.P's
1¹⁵	1³⁰		¼	SURVEY
1³⁰	4³⁰	3	00	TRIP FOR BIT
4³⁰	8⁰⁰	3	½	REAM UNDERGAGE HOLE FROM 5164 TO 5176

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	+	10.2	10.2
VISC.	104	R	100	103
W.L.-C.C.	5.8	+	6.6	6.8
FLTR. CK.	2/32	P	2/32	2/32
pH	9.5		9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
52	STANDS DP	4738.19	FT.
1	SNGLS. DP	30.46	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY 6¼ OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	35.06	FT.
	TOTAL	5184.00	FT.
WT OF STRING		102,000	LBS.
DRILLER		R. Nolan	
WEATHER CONDITIONS		Cloudy +10°	

BIT RECORD		
Drilling or Core Bit No.	45-B	46
TYPE	W7	W7
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	32272	367487
DEPTH IN	?	?
DEPTH OUT	TRIP FOR BIT	
FT. DRILLED	00G Hole	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	5	
CONDITION	00G	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5184	—	—	5184		150	2-3

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	950	6½	51	
PUMP No. 2				

DEVIATION RECORD: DEPTH DEV. DIRECTION

DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8³⁰		½	RIG SERV CHECK BOP's W/O COMPOUND OILER.
8³⁰	9⁴⁵	1	½	REAM 00G HOLE 5176-5178
9⁴⁵	11⁴⁵	2		PULL OUT CHANGE BIT RUN DC's
11⁴⁵	12³⁰		¾	SLIP 22' CUT 44' DRLG LINE
12³⁰	2⁰⁰	1	½	INSTALL NEW YOKE IN COMPOUND SHAFT WELDING ON DRUM GRANDING SAME, W/O BRAKES
2⁰⁰	3³⁰	1	½	RUN IN W/ BIT #46 LAY DOWN 1 SIN.
3³⁰	4⁰⁰		½	BREAK CIRC REAM TIGHT HOLE FROM 5140-5160

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2			
VISC.	102			
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

HAMMING ADJUSTMENTS.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
52	STANDS DP	4738.19	FT.
1	SNGLS. DP	30.46	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY 6¼ OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	35.06	FT.
	TOTAL	5184.00	FT.
WT OF STRING		93M	LBS.
DRILLER		B. Williams	
WEATHER CONDITIONS		+16°	

BIT RECORD		
Drilling or Core Bit No.	46	47
TYPE	W7	W7
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	367487	371825
DEPTH IN		5184
DEPTH OUT	REAM	
FT. DRILLED	00G	
FT. REAMED	Hole	
FT. CORED		
CUM. HRS. RUN	6¼	
CONDITION	FAIR	NEW

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5184			5184		150	2-3

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	6
PUMP No. 2				

DEVIATION RECORD: DEPTH DEV. DIRECTION

DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	RIG SERV
4¹⁵	10⁰⁰	5	¾	REAM 00G HOLE INTERVAL 5160-5184
10⁰⁰	11³⁰	1	½	PULL OUT OF HOLE
11³⁰	12⁰⁰		½	RUN IN HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	
VISC.	107	106	102	
W.L.-C.C.	6.4	6.4	6.4	
FLTR. CK.	2/32	2/32	2/32	
pH	9.5	9	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	1		
TRIPPING	3	3½	2
RIG MAINTENANCE	¼	1	¼
RIG REPAIRS		1½	
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	3½	2	5¾
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8		
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	22
FEET CUT OFF	44
PRESENT LENGTH	3346
TON MI. or TRIPS SINCE LAST CUT	114
CUMULATIVE TON MI. or TRIPS	1517
NO. OF DAYS FROM SPUD	67
CUMULATIVE ROTATING HRS.	764'14
DAYS SINCE LAST ACCDNT.	96
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	194
DAY TOUR	367
EVENING TOUR	219

REPORT No. 68

DATE: FEB 28, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD TYPE THD. FH
DRILL PIPE GRADE: E

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J-55	0	598	Neat		

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3	3½	7¾
TRIPPING	3	3¼	
RIG MAINTENANCE	¼	½	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	2½	3¼	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL		8	
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	104
FEET CUT OFF	110
PRESENT LENGTH	3390
TON MI. or TRIPS SINCE LAST CUT	377
CUMULATIVE TON MI. or TRIPS	1327
NO. OF DAYS FROM SPUD	66
CUMULATIVE ROTATING HRS.	697¾
DAYS SINCE LAST ACCDNT.	95
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	318
DAY TOUR	193
EVENING TOUR	366

MORNING TOUR

NO.	DRILLING ASSEMBLY		
52	STANDS DP	4738.19	FT.
	SNGLS. DP		FT.
12	D.C. OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	30.48	FT.
	TOTAL		FT.
WT OF STRING		82M	LBS.
DRILLER		B. Williams	
WEATHER CONDITIONS		-45	

BIT RECORD		
Drilling or Core Bit No.	44	45
TYPE	W7R	W7
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	16512	32272
DEPTH IN	5092	5125
DEPTH OUT	5125	
FT. DRILLED		13
FT. REAMED	30	
FT. CORED		
CUM. HRS. RUN	4¼	3
CONDITION	FAIR	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5125	13		5138		80	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	600	6½	50	
PUMP No. 2	CIR TANK	5½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12:00	12:15		¼	REAMING
12:15	12:30		¼	RIG SERV
12:30	3:30	3		TRIP FOR BIT #45
3:30	5:00	1	½	REAM INTERVALS 5065-95 + 5120-25
5:00	8:00	3		DRLG 9" HOLE

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T	'	10.3	10.3
VISC.	R	'	90	90
W.L.-C.C.	/	C	6.4	6.4
FLTR. CK.	D	/	2/32	2/32
pH		R	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
52	STANDS DP	4738.19	FT.
	SNGLS. DP		FT.
12	D.C. 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY 6¼ OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	35.52	FT.
	TOTAL	5154.00	FT.
WT OF STRING		106,000	LBS.
DRILLER		E. Mill	
WEATHER CONDITIONS		+20°	

BIT RECORD		
Drilling or Core Bit No.	45	46
TYPE	W7	W7
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	32272	32245
DEPTH IN	5125	5145
DEPTH OUT	5145	
FT. DRILLED	20	9
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	4½	2
CONDITION	FAIR	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5138	16		5154		80	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4¼
PUMP No. 2	CIRC TANKS	5½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	8:15		¼	RIG SERV + CHECK B.O.P.'s
8:15	9:45	1	½	DRILLING 9" HOLE
9:45	11:15	1	½	PULL OUT W/BIT
11:15	11:30		¼	CHECK BLIND RAMS
11:30	1:15	1	¾	RUN IN W/BIT #46
1:15	2:00		¾	BREAK CIRC & CLEAN OUT TO BOTTOM
2:00	4:00	2		DRILLING 9" HOLE

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3			10.3
VISC.	85		-D	100
W.L.-C.C.	6.4		11	5.8
FLTR. CK.	2/32	1/81		2/32
pH	8.5			8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	800#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
52	STANDS DP	4738.19	FT.
1	SNGLS. DP	30.46	FT.
12	D.C. 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY 6¼ OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	31.06	FT.
	TOTAL	5180	FT.
WT OF STRING		104,000	LBS.
DRILLER		R. Holum	
WEATHER CONDITIONS		LIGHT SNOW, WINDY, +11°	

BIT RECORD	
Drilling or Core Bit No.	46
TYPE	W7
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	32245
DEPTH IN	5145
DEPTH OUT	
FT. DRILLED	35.
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	9¾
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5154	26		5180		80	30

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:00	4:15		¼	RIG SERV CHECK BOP's
4:15	12:00	7	¾	DRILL 9" HOLE

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.2	10.2	10.2
VISC.	135	136	105	103
W.L.-C.C.	6.	6.6	6.6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	8.5	9.	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	100#		
Q-X	100#		
GEL	400#		
DRISCOSE	25#		

REPORT No. 67

DATE: FEB 27/66

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: ROCORP GRANDVIEW HILLS #1 | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINTS 5¾ OD, TYPE THD. FH | DRILL PIPE GRADE E

OPERATOR'S REPRESENTATIVE: J. R. Rogers | CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3½	11½	
TRIPPING	3¼	½	2½
RIG MAINTENANCE	¼	¼	3¼
RIG REPAIRS			1½
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	3¼	5¾	4¼
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL		8	
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	104
FEET CUT OFF	110
PRESENT LENGTH	3390
TON MI. or TRIPS SINCE LAST CUT	252
CUMULATIVE TON MI. or TRIPS	1275
NO. OF DAYS FROM SPUD	65
CUMULATIVE ROTATING HRS.	627½
DAYS SINCE LAST ACCDNT.	94
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	317
DAY TOUR	192
EVENING TOUR	365

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STANDS DP	4648.81 FT.	Drilling or Core Bit No.	42 / 43
2	SNGLS. DP	59.76 FT.	TYPE	OWC / W7R
	D.C. OD	FT.	SIZE	9" / 9
12	OD	371.52 FT.	NOZZ. SIZE	11/16 / 11/16
	RMR BODY OD	FT.	SERIAL No.	12938 / 16979
2	STB BODY OD	8.17 FT.	DEPTH IN	5103 / 5122
	SUBS OD	FT.	DEPTH OUT	5122
	BIT OR C.B.	1.60 FT.	FT. DRILLED	19
		FT.	FT. REAMED	10 Bot.
	Kelly Down	33.97 FT.	FT. CORED	¾ R.
	TOTAL	5122 FT.	CUM. HRS. RUN	2½ D.
WT OF STRING		84M LBS.	CONDITION	BALD

DRILLER: B. Williams

WEATHER CONDITIONS: +10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5103	19		5122		90 / 150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	
PUMP No. 2		5½		

DEVIATION RECORD: DEPTH 5100 | DEV. 1° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
12	12.15		¼	RIG SERV. CHECK BOP'S
12.15	1.00		¾	REAM 10' UNDER GAUGE HOLE TO BOTTOM
1.00	4.30		3½	DRLG 9" HOLE
4.30	7.45	3	¼	TRIP FOR BIT
7.45	8.00		¼	BREAK CIRC CLEAN TO BOTTOM

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.4	T	
VISC.		87	R	
W.L.-C.C.		7	I	
FLTR. CK.		2/32	P	
pH		9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	15#		
TANNATHIN	50#		
GEL	1000#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STANDS DP	4648.81 FT.	Drilling or Core Bit No.	43
2	SNGLS. DP	59.76 FT.	TYPE	W7R
	D.C. OD	FT.	SIZE	9
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	16979
2	STB BODY 6¼ OD	8.17 FT.	DEPTH IN	5122
	SUBS OD	FT.	DEPTH OUT	5125
	BIT OR C.B.	.60 FT.	FT. DRILLED	3
		FT.	FT. REAMED	15 5¾ HR
	Kelly Down	36.14 FT.	FT. CORED	
	TOTAL	5125.00 FT.	CUM. HRS. RUN	1½
WT OF STRING		83,000 LBS.	CONDITION	HOISTING

DRILLER: E. Mill

WEATHER CONDITIONS: +18°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5107		15	5122		150	4
5122	3		5125		80	30

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	6¼
PUMP No. 2	CIRC TANKS	5½		8

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
8.00	8.15		¼	RIG SERV & CHECK BOP'S
8.15	2.00	5	¾	REAM UNDERGAGE HOLE 15'
2.00	3.30	1	½	DRILLING 9" HOLE
3.30	4.00		½	PULL OUT FOR BIT.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.4	10.3	10.3	10.3
VISC.	83	80	97	100
W.L.-C.C.	6.4	5.8	6.2	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.	9	8.5	8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2600#		
QX.	50#		
TANNATHIN	50#		
CAUSTIC	40#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
51	STANDS DP	4648.81 FT.	Drilling or Core Bit No.	44
2	SNGLS. DP	59.76 FT.	TYPE	W7R
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	16513
2	STB BODY 6¼ OD	8.17 FT.	DEPTH IN	5095
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED OOG HOLE	25'
	Kelly Down	36.14 FT.	FT. CORED	
	TOTAL	5125.00 FT.	CUM. HRS. RUN	4
WT OF STRING		82,000 LBS.	CONDITION	IN

DRILLER: R. Nolan

WEATHER CONDITIONS: +10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5125			5125		150	2

REAM OOG HOLE FROM 5095 - 5125

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4
PUMP No. 2				

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
4.00	5.00	1		FINISH OUT W/ BIT # 43
5.00	5.15		¼	RIG SERV CHECK BOP'S
5.15	5.45		½	SLIP 22' DRLG LINE
5.45	6.15		½	ADJST BRAKES & MAKE REPAIRS TO SAME
6.15	7.45	1	½	RUN IN W/ BIT # 44
7.45	8.00		¼	BREAK CIRC.
8.00	12.00	4		REAM OOG HOLE FROM 5095-5125

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT			10.3	10.3
VISC.			120	85
W.L.-C.C.			6.4	6.6
FLTR. CK.			2/32	2/32
pH			8.5	8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 66

DATE: FEB 26/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4 1/2
TOOL JOINT: 5 3/4 OD
TYPE THD.: F H
DRILL PIPE GRADE: E
OPERATOR'S REPRESENTATIVE: L. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.D. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8	J55	0	595			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			1 1/2
RIG MAINTENANCE	1/4		
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	7 3/4		1/2
SUB TOTAL			
DAYWORK HOURS		8	6
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	82
FEET CUT OFF	110
PRESENT LENGTH	3390
TON MI. or TRIPS SINCE LAST CUT	144
CUMULATIVE TON MI. or TRIPS	1167
NO. OF DAYS FROM SPUD	64
CUMULATIVE ROTATING HRS.	622
DAYS SINCE LAST ACCDNT.	93
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	316
DAY TOUR	191
EVENING TOUR	364

MORNING TOUR

NO.	DRILLING ASSEMBLY		
51	STANDS DP	46488	FT.
2	SNGLS. DP	59.76	FT.
12	D.C. 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	Kelly Down	14.14	FT.
	TOTAL	5103.08	FT.
WT OF STRING		82M	LBS.
DRILLER		B. Williams	
WEATHER CONDITIONS		+ 8°	

BIT RECORD

Drilling or Core Bit No	H1
TYPE	W7
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	32487
DEPTH IN	5049
DEPTH OUT	5103
FT. DRILLED	54
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	11 1/2
CONDITION	DULL

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5103			5103			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1		6 1/2	Wash	
PUMP No. 2		5 1/2	OFF PUMPS	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5100	1°							

From	To	Elapsed Time	REMARKS
12:00	12:45	3/4	RIG SERV
12:45	8:00	7 3/4	LOGGING W/ WELEX

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
51	STANDS DP	46488	FT.
2	SNGLS. DP	58.93	FT.
12	D.C. 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down		FT.
	TOTAL		FT.
WT OF STRING			LBS.
DRILLER		E. Mill	
WEATHER CONDITIONS		WINDY + 12°	

BIT RECORD

Drilling or Core Bit No.	
TYPE	
SIZE	
NOZZ. SIZE	
SERIAL No.	
DEPTH IN	
DEPTH OUT	
FT. DRILLED	
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	
CONDITION	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5103			5103			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	CIRC TANKS	6 1/2		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	4:00	8	LOGGING BY WELEX

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
51	STANDS DP	46488	FT.
2	SNGLS. DP	58.93	FT.
12	D.C. 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	14.97	FT.
	TOTAL	5103.60	FT.
WT OF STRING		82 000	LBS.
DRILLER		R. Nolan	
WEATHER CONDITIONS		WINDY + 10°	

BIT RECORD

Drilling or Core Bit No.	H2
TYPE	OWC
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	12938
DEPTH IN	5103
DEPTH OUT	
FT. DRILLED	
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	
CONDITION	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5103			5103			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	50	1/2
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	10:00	6	LOGGING BY WELEX
10:00	11:30	1 1/2	RUN IN W/ BIT #H2 (LAY DOWN 1 BENT SUNG) PICK UP STAB'S
11:30	12:00	1/2	BREAK CIRCULATION & CIRC HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 65

DATE: FEB 25/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS No. 1 | PROVINCE: NWT

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4 1/2 | TOOL JOINT 5 3/4 OD, TYPE THD. FH | DRILL PIPE GRADE E

OPERATOR'S REPRESENTATIVE: D. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
12 3/4	55	0	498			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	1	7 3/4	23 1/4
TRIPPING	1 1/4		
RIG MAINTENANCE	3/4	1/4	1/4
RIG REPAIRS	3		
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Clearing To Bottom	2		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL		8	23 3/4
DAYWORK HOURS			5
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6
SIZE	1 1/8
FEET SLIPPED	82
FEET CUT OFF	110
PRESENT LENGTH	3390
TON MI. or TRIPS SINCE LAST CUT	108
CUMULATIVE TON MI. or TRIPS	1131
NO. OF DAYS FROM SPUD	63
CUMULATIVE ROTATING HRS.	622
DAYS SINCE LAST ACCDNT.	92
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	316
DAY TOUR	191
EVENING TOUR	363

MORNING TOUR

NO.	DRILLING ASSEMBLY		
51	STANDS DP	4648.80	FT.
	SNGLS. DP		FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	24.90	FT.
	TOTAL	5054.00	FT.
WT OF STRING		83M	LBS.

BIT RECORD

Drilling or Core Bit No.	41
TYPE	W7
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	32487
DEPTH IN	5049
DEPTH OUT	
FT. DRILLED	5
FT. REAMED	5, 2 HRS
FT. CORED	
CUM. HRS. RUN	1
CONDITION	IN

DRILLER: B. Williams

WEATHER CONDITIONS: -10 F

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5049	5	5	5054		88	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1		6 1/2		
PUMP No. 2	950	6 1/2	50	3

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5045	1°							

From	To	Elapsed Time		REMARKS
1200	300	3	3	INSTALL NEW WEARRING, PACKING & WASHPIPE IN SWIVEL
300	315		1/4	RIG SERV CHECK BOP'S
315	345		1/2	SLIP & CUT DRILLINE Cut 44 SLIP 22
345	500	1	1/4	RUN IN W/ BIT #41
500	700	2		REAM UNDER GAUGE HOLE TO BOTTOM
700	800	1		DRL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				10.4
VISC.	T			91
W.L.-C.C.		R		6.4
FLTR. CK.			1	2/32
pH			P	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
51	STANDS DP	4648.81	FT.
1	SNGLS. DP	29.64	FT.
	D.C. OD		FT.
12	6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY 6 1/4 OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	34.26	FT.
	TOTAL	5093.00	FT.
WT OF STRING		82,000	LBS.

BIT RECORD

Drilling or Core Bit No.	41
TYPE	W7
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	32487
DEPTH IN	5049
DEPTH OUT	
FT. DRILLED	44
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	8 3/4
CONDITION	IN

DRILLER: E. Mill

WEATHER CONDITIONS: +12°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5054	39		5093		95 150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6 1/2	50	1 1/2
PUMP No. 2	900	6 1/2	50	1 1/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
800	815		1/4	Rig Service & Check B.O.P's
815	400	7	3/4	Drilling 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.3	10.4
VISC.	85	83	80	85
W.L.-C.C.	6.2	6.4	6.6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000 lb		
Caustic	10 lb		
Thinner	10 lb		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
51	STANDS DP	4648.81	FT.
2	SNGLS. DP	59.76	FT.
	D.C. OD		FT.
12	6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
2	STB BODY 6 1/4 OD	8.17	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	14.14	FT.
	TOTAL	5103.00	FT.
WT OF STRING		82,000	LBS.

BIT RECORD

Drilling or Core Bit No.	41
TYPE	W7
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	32487
DEPTH IN	5049
DEPTH OUT	5103
FT. DRILLED	54
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	11 1/2
CONDITION	Dull

DRILLER: R. Holland

WEATHER CONDITIONS: +15° WINDY

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5093	10		5103	CHERT.	100 150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6 1/2	53	11
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
5100	1°							

From	To	Elapsed Time		REMARKS
400	415		1/4	RIG SERV. CHECK BOP'S
415	700	2	3/4	DRILL 9" HOLE
700	845	1	3/4	CIRC. HOLE CLEAN FOR LOGGING
845	900		1/4	SURVEY @ 5100
900	1030	1	1/2	PULL OUT TO LOG LAY DOWN STAB'S.
1030	1130	1		RIG WELEX
1130	1200		1/2	LOGGING BY WELEX

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.4	10.4	10.4	
VISC.	83	85	90	
W.L.-C.C.	6.4	6.2	6.2	
FLTR. CK.	3/32	3/32	3/32	
pH	8.5	8.5	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Driscose	25 lb	Rig	

REPORT No. 64 DATE: FEB 24/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 9/14 OD
TYPE THD.: F H
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Hoy Parker

LOCATION LSD. SEC. TWP. RGE. W.:
WELL NAME: R.C. CORP GRANDVIEW HILLS #1
No.: 1
PROVINCE: N.W.T.

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J-55	0	598			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4½	7½	5½
TRIPPING	2¾		1¾
RIG MAINTENANCE	¼	½	¼
RIG REPAIRS			1¼
HOLE SURVEYS	¼		1¼
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	¼		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL		8	
DAYWORK HOURS		#	
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	60
FEET CUT OFF	70
PRESENT LENGTH	3430
TON MI. or TRIPS SINCE LAST CUT	500
CUMULATIVE TON MI. or TRIPS	1023
NO. OF DAYS FROM SPUD	62
CUMULATIVE ROTATING HRS.	610½
DAYS SINCE LAST ACCDNT.	91
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	315
DAY TOUR	190
EVENING TOUR	362

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
50	STANDS DP	4558.01 FT.	Drilling or Core Bit No.	39	40
	SNGLS. DP	FT.	TYPE	OWC	OWC
	D.C. OD	FT.	SIZE	9"	9"
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	13405	98580
2	STB BODY 6¼ OD	8.17 FT.	DEPTH IN	4825	4956
	SUBS OD	FT.	DEPTH OUT	4956	
	BIT OR C.B.	.60 FT.	FT. DRILLED	130	16
		FT.	FT. REAMED		
	Kelly Down	32.70 FT.	FT. CORED		
	TOTAL	4972.50 FT.	CUM. HRS. RUN	18	1 3/4
WT OF STRING		76M LBS.	CONDITION	FAIR	GOOD
DRILLER	B. WILLIAMS				
WEATHER CONDITIONS	+28° WARM & SALUBRIOUS				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4941	31		4972		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	4½
PUMP No. 2				

DEVIATION RECORD: DEPTH 4956 DEV. 1¼° DIRECTION

From	To	Elapsed Time		REMARKS
1200	245	2	3/4	DRLG 9" HOLE
245	300		1/4	SURVEY
300	430	1	1/2	PULL OUT
430	445		1/4	RIG SERV CHECK BOP'S OK
445	600	1	1/4	RUN IN W/ BIT #40 CHECK & SERV BOTH STABILIZERS
600	615		1/4	BREAK CIRC CLEAN TO BOTTOM
615	800	1	3/4	DRL 9" HOLE
				ONE STB @ 6081 & ONE @ 3401 FT OF BOTTOM

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.4			10.4
VISC.	80			82
W.L.-C.C.	6.4			6.2
FLTR. CK.	2/32	TRP		2/32
pH	9.5			9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
50	STANDS DP	4558.01 FT.	Drilling or Core Bit No.	40	
2	SNGLS. DP	60.22 FT.	TYPE	OWC	
	D.C. OD	FT.	SIZE	9"	
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	98580	
2	STB BODY 6¼ OD	8.17 FT.	DEPTH IN	4956	
	SUBS OD	FT.	DEPTH OUT		
	BIT OR C.B.	.60 FT.	FT. DRILLED	77	
		FT.	FT. REAMED		
	Kelly Down	34.48 FT.	FT. CORED		
	TOTAL	5033.00 FT.	CUM. HRS. RUN	9¼	
WT OF STRING		78,000 LBS.	CONDITION	1/4	
DRILLER	E. Mill				
WEATHER CONDITIONS	+19°.				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4972	61		5033		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	7½
PUMP No. 2	CIRC TANKS	6½		9

DEVIATION RECORD: DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
800	830		1/2	Rig Serv. & Check B.O.P's
830	400	7	1/2	Drilling 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.5	10.4	10.4	10.4
VISC.	84	85	88	80
W.L.-C.C.	6.4	6.4	6.5	6.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
CAUSTIC	10#		
SPERSENE	100#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
51	STANDS DP	4648.82 FT.	Drilling or Core Bit No.	40	41
	SNGLS. DP	✓ FT.	TYPE	OWC	W 7
	D.C. OD	FT.	SIZE	9"	9"
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	98580	32487
2	STB BODY 6¼ OD	8.17 FT.	DEPTH IN	4956	
	SUBS OD	FT.	DEPTH OUT		
	BIT OR C.B.	.60 FT.	FT. DRILLED	93	
		FT.	FT. REAMED		
	Kelly Down	19.90 FT.	FT. CORED		
	TOTAL	5049 FT.	CUM. HRS. RUN	14 3/4	
WT OF STRING		78,000 LBS.	CONDITION	V Dull	
DRILLER	B. Nolan				
WEATHER CONDITIONS	LIGHT SNOW +18°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
5033	16		5049	CHERT	150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	2
PUMP No. 2	900	6½	50	3½

DEVIATION RECORD: DEPTH 5045 DEV. 1° DIRECTION

From	To	Elapsed Time		REMARKS
400	600	2		DRILL 9" HOLE
600	630		1/2	RIG SERV TIGHTEN, WASH PIPE PACKING
630	1000	3	1/2	DRILL 9" HOLE
1000	1005		1/4	SURVEY
1005	1200	1	3/4	PULL OUT CHANGE BITS CHECK B. RAMS

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.4	10.4		
VISC.	74	82		
W.L.-C.C.	6	6.2		
FLTR. CK.	2/32	2/32		
pH	9	9.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 63

DATE: FEB 23/80

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD; TYPE THD. FH
DRILL PIPE GRADE: 2.3
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
	13⅜	J-55	0	298			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3¼	7½	11¾
TRIPPING	3¼		
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS	1		
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		½	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	
DAYWORK HOURS			
TOTAL HOURS	8	8	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	60
FEET CUT OFF	70
PRESENT LENGTH	3430
TON MI. or TRIPS SINCE LAST CUT	412
CUMULATIVE TON MI. or TRIPS	915
NO. OF DAYS FROM SPUD	61
CUMULATIVE ROTATING HRS.	593
DAYS SINCE LAST ACCDNT.	90
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	314
DAY TOUR	189
EVENING TOUR	361

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
48	STANDS DP	4995.98 FT.	Drilling or Core Bit No.	38	39
1	SNGLS. DP	30.03 FT.	TYPE	M44	OWV
12	D.C. 2 7/16 OD 6 1/4 OD	371.52 FT.	SIZE	9"	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16	11/16
2	STB BODY OD	8.17 FT.	SERIAL No.	352140	13405
	SUBS OD	FT.	DEPTH IN	4711	4826
	BIT OR C.B.	.60 FT.	DEPTH OUT	4826	
		FT.	FT. DRILLED	115	
	Kelly Down	40.65 FT.	FT. REAMED		
	TOTAL	4826 FT.	FT. CORED		
WT OF STRING	75M LBS.		CUM. HRS. RUN	19	
DRILLER	B. WILLIAMS		CONDITION	GOOD	NEW
WEATHER CONDITIONS	2 BALMY EVENING				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4803	23		4826		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6½	48	1¼
PUMP No. 2	850	6½	48	3

DEVIATION RECORD: 3° @ 4826 | 1½°

From	To	Elapsed Time		REMARKS
12AM	3AM	3	1/4	DRLG 9" HOLE
3AM	3:30		1/4	SURVEY
3:30	5:15	1	3/4	TRIP OUT OF HOLE
5:15	6:00		3/4	RIG SERV & RUN IN DC'S
6:00	7:00	1		CHANGE WASH PIPE & PACKING IN SWIVEL
7:00	8:00	1		RUN IN W/ BIT #39

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.4			
VISC.	82			
W.L.-C.C.	6.2			
FLTR. CK.	2/32			
pH	9			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
49	STANDS DP	4467.30 FT.	Drilling or Core Bit No.	39	
	SNGLS. DP	FT.	TYPE	OWV	
	D.C. OD	FT.	SIZE	9"	
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	13405	
2	STB BODY 6¼ OD	8.17 FT.	DEPTH IN	4826	
	SUBS OD	FT.	DEPTH OUT		
	BIT OR C.B.	.60 FT.	FT. DRILLED	58	
		FT.	FT. REAMED		
	Kelly Down	36.41 FT.	FT. CORED		
	TOTAL	4884.00 FT.	CUM. HRS. RUN	7½	
WT OF STRING	76,000 LBS.		CONDITION	IN	
DRILLER	E. Mill				
WEATHER CONDITIONS	+25°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4826	58		4884		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	7½
PUMP No. 2	CIRC THRU	6½		8

DEVIATION RECORD: 3° @ 4826

From	To	Elapsed Time		REMARKS
8:00	8:15		1/4	BREAK CIRC & CLEAN OUT TO BOTTOM
8:15	8:30		1/4	RIG SERV & CHECK B.O.P's
8:30	4:00	7	1/2	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.5	10.5	10.5	10.5
VISC.	90	87	87	85
W.L.-C.C.	5.4	6.2	5.6	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
49	STANDS DP	4467.30 FT.	Drilling or Core Bit No.	39	
2	SNGLS. DP	61.49 FT.	TYPE	OWV	
	D.C. OD	FT.	SIZE	9"	
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	13405	
2	STB BODY 6¼ OD	8.17 FT.	DEPTH IN	4826	
	SUBS OD	FT.	DEPTH OUT		
	BIT OR C.B.	.60 FT.	FT. DRILLED	115	
		FT.	FT. REAMED		
	Kelly Down	31.92 FT.	FT. CORED		
	TOTAL	4941.04 FT.	CUM. HRS. RUN	15¼	
WT OF STRING	76,000 LBS.		CONDITION	IN	
DRILLER	Ed. Nerlan				
WEATHER CONDITIONS	Windy Mild +20°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4884	57		4941		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	7¾
PUMP No. 2				

DEVIATION RECORD:

From	To	Elapsed Time		REMARKS
4:00	4:15		1/4	RIG SERV CHECK BOP'S
4:15	12:00	7	3/4	DRILL 9" HOLE
				CLEAN #1 MUD TANK

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.5	10.5	10.4	10.4
VISC.	80	85	84	80
W.L.-C.C.	6.4	6.2	6.	6.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9.	9	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	15 or 16		
CAUSTIC	30 lbs		
[illegible]	5-0 lbs		
SPERSENE	100 lbs		

REPORT No. 62

DATE: FEB 22/66

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: RICHFIELD OIL CORP CRANDELL HILLS #1 No.
PROVINCE: NWT
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2.3
OPERATOR'S REPRESENTATIVE: J. B. Brown
CONTRACTOR'S TOOL PUSHER: Doug Baker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	2	7 3/4	7 1/4
TRIPPING	3		
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS	2 1/4		1/2
HOLE SURVEYS	1/4		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	1/4		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL	8	8	8
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	60
FEET CUT OFF	70
PRESENT LENGTH	3430
TON MI. or TRIPS SINCE LAST CUT	344
CUMULATIVE TON MI. or TRIPS	847
NO. OF DAYS FROM SPUD	60
CUMULATIVE ROTATING HRS.	574 1/2
DAYS SINCE LAST ACCDNT.	89
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	313
DAY TOUR	188
EVENING TOUR	360

MORNING TOUR

NO.	DRILLING ASSEMBLY		
47	STANDS DP		4284.51 FT.
1	SNGLS. DP		29.96 FT.
12	D.C. OD		371.52 FT.
	RMR BODY OD		FT.
2	STB BODY OD		8.10 FT.
	SUBS OD		FT.
	BIT OR C.B.		.60 FT.
			FT.
	Kelly Down		19.24 FT.
	TOTAL		4714.05 FT.
WT OF STRING		80M	LBS.
DRILLER		B Williams	
WEATHER CONDITIONS		-35°	

BIT RECORD		
Drilling or Core Bit No	37	38
TYPE	OWC	M4L
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	87753	352140
DEPTH IN	4661	4711
DEPTH OUT	4711	
FT. DRILLED	50	3
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	14	3 1/4
CONDITION	GOOD	RECAPPED

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4706	8		4714		150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6½	50	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4714	2°							

From	To	Elapsed Time	REMARKS
12:00	12:15	1/4	RIG SERV CHECK BOP'S
12:15	1:30	1 1/4	DRLG 9" HOLE (1:30 - 140 SURVEY) 1/4
1:45	3:15	1 1/2	PULL OUT
3:15	3:45	1/2	RUN IN DC'S, PICK UP STABILIZER
3:45	6:00	2 1/4	LOCK SWIVEL
6:00	7:00	1	RUN IN HOLE
7:00	7:15	1/4	BREAK CIRC CLEAN TO BOTTOM
7:15	8:00	3/4	DRLG 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3			
VISC.	94			
W.L.-C.C.	6.4			
FLTR. CK.	2/32			
pH	9.5			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
47	STANDS DP		4284.61 FT.
2	SNGLS. DP		60.10 FT.
12	D.C. OD	6¼	371.52 FT.
	RMR BODY OD		8.17 FT.
2	STB BODY OD	6¼	FT.
	SUBS OD		FT.
	BIT OR C.B.		.60 FT.
			FT.
	Kelly Down		34.10 FT.
	TOTAL		4754.00 FT.
WT OF STRING		75,000	LBS.
DRILLER		D Mill	
WEATHER CONDITIONS		-10	

BIT RECORD	
Drilling or Core Bit No.	38
TYPE	M4L
SIZE	9
NOZZ. SIZE	11/16
SERIAL No.	352140
DEPTH IN	4711
DEPTH OUT	
FT. DRILLED	48
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	8 1/2
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4714	45		4759		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	3
PUMP No. 2	900	6½	50	4 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	8:15	1/4	RIG SERV + CHECK B.O.P's
8:15	4:00	7 3/4	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.3	10.3
VISC.	86	84	86	87
W.L.-C.C.	6.2	6.	6.	6.
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
48	STANDS DP		4375.95 FT.
1	SNGLS. DP		30.03 FT.
12	D.C. OD	6¼	371.52 FT.
	RMR BODY OD		FT.
2	STB BODY OD		8.17 FT.
	SUBS OD		FT.
	BIT OR C.B.		.60 FT.
			FT.
	Kelly Down		16.73 FT.
	TOTAL		4803 FT.
WT OF STRING		75,000	LBS.
DRILLER		R Nolan	
WEATHER CONDITIONS		-13	

BIT RECORD	
Drilling or Core Bit No.	38
TYPE	M4L
SIZE	9
NOZZ. SIZE	11/16
SERIAL No.	352140
DEPTH IN	4711
DEPTH OUT	
FT. DRILLED	92
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	15 3/4
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4759	44		4803		150	25
					150	23

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	6½	50	1 1/4
PUMP No. 2	900	6½	50	6

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	4:15	1/4	RIG SERV. CHECK BOP's
4:15	10:30	6 1/4	DRILL 9" HOLE.
10:30	11:00	1/2	TIGHTEN WASH PIPE PACKING.
11:00	12:00	1	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.4	10.4	10.4
VISC.	90	94	90	87
W.L.-C.C.	6.4	6.6	6.2	6.
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000 lbs		
CAUSTIC	15 lbs		
TANNATHIN	50 lbs		

REPORT No. 61

DATE: FEB 21, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O.CORP. GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD | TYPE THD. F.H | DRILL PIPE GRADE 2-3

OPERATOR'S REPRESENTATIVE: J. R. Brown. | CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	5	5 3/4	7
TRIPPING	2 1/4	1½	
RIG MAINTENANCE	1/2	1/2	1/4
RIG REPAIRS			3/4
HOLE SURVEYS	1/4		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		1/4	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	4192.36 FT.	Drilling or Core Bit No.	36
2	SNGLS. DP	61.30 FT.	TYPE	OWV
	OD	FT.	SIZE	9"
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	13497
	STB BODY OD	4.10 FT.	DEPTH IN	4551
	SUBS OD	FT.	DEPTH OUT	4661
	BIT OR C.B.	.60 FT.	FT. DRILLED	110
		FT.	FT. REAMED	
	Kelly Down	31.12 FT.	FT. CORED	
	TOTAL	4661 FT.	CUM. HRS. RUN	18½
WT OF STRING		71,000 LBS.	CONDITION	Dull.

DRILLER: B. Nolan

WEATHER CONDITIONS: Cool - 44

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4635	26		4661		150	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	ON TANKS			
PUMP No. 2	900	6½	54	5

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4660	2 1/4							

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		1/4	RIG SERV. CHECK BOP'S
12¹⁵	5¹⁵	5		DRILL 9" HOLE.
5¹⁵	5³⁰		1/4	SURVEY
5³⁰	7⁴⁵	2	1/4	PULL OUT CHAGE BITS RUN COLLAR IN
7⁴⁵	8⁰⁰		1/4	SLIP 22' DRLG LINE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	10.3	10.2		
VISC.	72	86		
W.L.-C.C.	5.8	5.6		
FLTR. CK.	2/32	2/32		
pH	9.5	9.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
47	STANDS DP	4284.5 FT.	Drilling or Core Bit No.	37
	SNGLS. DP	FT.	TYPE	OWC
12	D.C. 6¼ OD	371.52 FT.	SIZE	9"
		FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	87757
	STB BODY OD	4.10 FT.	DEPTH IN	4661
	SUBS OD	. FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	25
		FT.	FT. REAMED	
	Kelly Down	25.52 FT.	FT. CORED	
	TOTAL	4686.00 FT.	CUM. HRS. RUN	5 3/4
WT OF STRING		79M LBS.	CONDITION	GOOD

DRILLER: B. Williams

WEATHER CONDITIONS: - 30°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4661	25		4686		150	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6½	50	5 3/4
PUMP No. 2		6½	ON TANKS	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4660	2 1/2°							

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		1/4	RIG SERV CHECK BOP'S
8¹⁵	8³⁰		1/4	SLIP DRLG LINE
8³⁰	16⁰⁰	1	1/2	RUN IN W/ BIT #37
16⁰⁰	16¹⁵		1/4	BREAK CIRC CLEAN TO BOTTOM
16¹⁵	4⁰⁰	5	3/4	DRLG 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T	E	10.3	10.3
VISC.	R		94	82
W.L.-C.C.	1	C.	5.6	6.2
FLTR. CK.	P	1	2/32	2/32
pH		R	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	10		
Tannathin	50		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
47	STANDS DP	4284.5 FT.	Drilling or Core Bit No.	37
1	SNGLS. DP	29.96 FT.	TYPE	OWC
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	87757
1	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	4661
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	45
		FT.	FT. REAMED	
	Kelly Down	15.31 FT.	FT. CORED	
	TOTAL	4706.00 FT.	CUM. HRS. RUN	12 3/4
WT OF STRING		80,000 LBS.	CONDITION	IN

DRILLER: E. Mill

WEATHER CONDITIONS: - 36°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4686	20		4706		150	15-18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6½	50	7
PUMP No. 2		6½	ON T...	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		1/4	RIG SERVICE & CHECK B.O.P's.
4¹⁵	6⁰⁰	1	3/4	DRILLING 9" HOLE.
6⁰⁰	6⁴³		3/4	WORK ON SWIVEL.
6⁴³	12⁰⁰	5	1/4	DRILLING 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.3	10.3
VISC.	83	85	85	85
W.L.-C.C.	6.4	6.4	6.	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1/8
FEET SLIPPED	66
FEET CUT OFF	70
PRESENT LENGTH	3430
TON MI. or TRIPS SINCE LAST CUT	276
CUMULATIVE TON MI. or TRIPS	779
NO. OF DAYS FROM SPUD	59
CUMULATIVE ROTATING HRS.	557 1/2
DAYS SINCE LAST ACCDNT.	88
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	359
DAY TOUR	312
EVENING TOUR	187

REPORT No. 60

DATE: FEB 20 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O.CORP. GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO. 16
DRILL PIPE STRING NO. SIZE 4½
TOOL JOINT 5 3/4 OD
TYPE THD. F.H
DRILL PIPE GRADE 2-3
OPERATOR'S REPRESENTATIVE: J. R. Brown.
CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	5	5¾	7
TRIPPING	2¼	1½	
RIG MAINTENANCE	½	½	¼
RIG REPAIRS			¾
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		¼	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 2
NO. OF LINES 6 SIZE 1/8
FEET SLIPPED 66
FEET CUT OFF 90
PRESENT LENGTH 3430
TON MI. or TRIPS SINCE LAST CUT 276
CUMULATIVE TON MI. or TRIPS 779

NO. OF DAYS FROM SPUD 59
CUMULATIVE ROTATING HRS. 357½
DAYS SINCE LAST ACCDNT. 88
DRILLER ACCDNT. FREE DAYS
MORNING TOUR 359
DAY TOUR 312
EVENING TOUR 187

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
46	STANDS DP	4192.36 FT.	Drilling or Core Bit No	36
2	SNGLS. DP	61.30 FT.	TYPE	OWU
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	4.10 FT.	SERIAL No.	13497
	SUBS OD	FT.	DEPTH IN	4551
	BIT OR C.B.	.60 FT.	DEPTH OUT	4661
		FT.	FT. DRILLED	110
	Kelly Down	31.12 FT.	FT. REAMED	
	TOTAL	4661 FT.	FT. CORED	
WT OF STRING		71,000 LBS.	CUM. HRS. RUN	18½
DRILLER	E. Nolan		CONDITION	Dull.
WEATHER CONDITIONS	Cool -44			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4635	26		4661		150	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	900	6½	54	5

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	4660	2¼							

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	RIG SERV. CHECK BOP'S
12¹⁵	5¹⁵	5		DRILL 9" HOLE.
5¹⁵	5³⁰		¼	SURVEY
5³⁰	7⁴⁵	2	¼	PULL OUT CHAGE BITS RUN COLLAR IN
7⁴⁵	8⁰⁰		¼	SLIP 22' DRLG LINE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	10.3	10.2		
VISC.	82	86		
W.L.-C.C.	5.8	5.6		
FLTR. CK.	2/32	2/32		
pH	9.5	9.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
47	STANDS DP	4284.51 FT.	Drilling or Core Bit No.	37
	SNGLS. DP	FT.	TYPE	OWC
12	D.C. OD 6¼ OD	371.02 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	4.10 FT.	SERIAL No.	87757
	SUBS OD	. FT.	DEPTH IN	4661
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	25
	Kelly Down	25.37 FT.	FT. REAMED	
	TOTAL	4686.00 FT.	FT. CORED	
WT OF STRING		79M LBS.	CUM. HRS. RUN	5 3/4
DRILLER	E. Williams		CONDITION	GOOD
WEATHER CONDITIONS	-30°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4661	25		4686		150	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6½	50	5¾
PUMP No. 2		6½	ONTIN	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	4660	2½°							

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	RIG SERV CHECK BOP'S
8¹⁵	8³⁰		¼	SLIP DRLG LINE
8³⁰	10⁰⁰	1	½	RUN IN W/ BIT #37
11⁰⁰	10¹⁵		¼	BREAK CIRC CLEAN TO BOTTOM
10¹⁵	4⁰⁰	5	¾	DRLG 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T	E	10.3	10.3
VISC.	R		94	82
W.L.-C.C.	1	C	5.6	6.2
FLTR. CK.	P	I	2/32	2/32
pH		R	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	10		
Tannathin	50		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
47	STANDS DP	4284.51 FT.	Drilling or Core Bit No.	37
1	SNGLS. DP	29.96 FT.	TYPE	OWC
12	D.C. OD ¼ OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
1	STB BODY 6¼ OD	4.10 FT.	SERIAL No.	87757
	SUBS OD	FT.	DEPTH IN	4661
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	45
	Kelly Down	15.31 FT.	FT. REAMED	
	TOTAL	4706.00 FT.	FT. CORED	
WT OF STRING		80,000 LBS.	CUM. HRS. RUN	12 3/4
DRILLER	E. Mill		CONDITION	IN
WEATHER CONDITIONS	-8°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4686	20		4706		150	15-18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	85	6½	50	7
PUMP No. 2		6½	ONTIN	

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	RIG SERVICE + CHECK B.O.P's
4¹⁵	6⁰⁰	1	¾	DRILLING 9" Hole.
6⁰⁰	6⁴⁵		¾	WORK ON SWIVEL
6⁴⁵	12⁰⁰	5	¼	DRILLING 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.3	10.3
VISC.	83	85	85	85
W.L.-C.C.	6.4	6.4	6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 60

DATE: FEB 20 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP.
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: P.O CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: F H R
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Dave Lanka

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.	-	

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	5 1/2	5 3/4	7 3/4
TRIPPING	13/4	1 3/4	
RIG MAINTENANCE	1/2	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS	1/4		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		1/4	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	

DRILLING ASSEMBLY

NO.			
45	STANDS DP	4100.77	FT.
2	SNGLS. DP	60.90	FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	13.11	FT.
	TOTAL	4551.00	FT.
WT OF STRING		71,000	LBS.

DRILLER: A. Stolan
WEATHER CONDITIONS: -26°

BIT RECORD

Drilling or Core Bit No.	3S	3S
TYPE	OWV	OWV
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	19277	13497
DEPTH IN	4484	
DEPTH OUT	4551	
FT. DRILLED	67	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	15½	
CONDITION	GOOD	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4529	22		4551		150	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6½	50	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4550	2°							

From	To	Elapsed Time	REMARKS
12:00	12:30	½	RIG SERV. CHECK BOP'S W/O AIR LINES TO HAND THROTTLE.
12:30	6:00	5 ½	DRILL 9" HOLE
6:00	6:15	¼	SURVEY
6:15	12:00	1 ¾	TRIP OUT FOR NEW BIT. CHECK BLIND RAMS

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	
VISC.	80	78	80	
W.L.-C.C.	6	5.8	5.6	
FLTR. CK.	2/32	2/32	2/32	
pH	9.5	9.5	9.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
46	STANDS DP	4192.36	FT.
	SNGLS. DP		FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	22.42	FT.
	TOTAL	4592.00	FT.
WT OF STRING			LBS.

DRILLER: B. Williams
WEATHER CONDITIONS: -20 INCREDIBLY COLD

BIT RECORD

Drilling or Core Bit No.	3G	
TYPE	OWV	
SIZE	9"	
NOZZ. SIZE	11/16	
SERIAL No.	13497	
DEPTH IN	4551	
DEPTH OUT		
FT. DRILLED	41	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	5 3/4	
CONDITION	GOOD	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4551	41		4592	LIMESTONE & CHERT	150	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1		6½		
PUMP No. 2	850	6½	50	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4550	2°							

From	To	Elapsed Time	REMARKS
8:00	8:15	¼	RIG SERV
8:15	10:00	1 ¾	RUN IN W/ BIT #36 & CHANGE STABILIZERS
10:00	10:15	¼	BREAK CIRC CLEAN TO BOTTOM
10:15	4:00	5 ¾	DRLG 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	T	10.2	10.2	10.2
VISC.	R	78	80	81
W.L.-C.C.	I	6	6	7
FLTR. CK.	D	4/32	2/32	2/32
pH	ECD	9.5	9.5	9.5
SD. CONT.	11:30 AM			

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	10#		
TANNATHIN	50#		
GEL	1000#		

EVENING TOUR

DRILLING ASSEMBLY

NO.			
46	STANDS DP	4192.36	FT.
1	SNGLS. DP	30.73	FT.
12	D.C. OD 6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY 6¼ OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	35.69	FT.
	TOTAL	4635.00	FT.
WT OF STRING		71,000	LBS.

DRILLER: E. Mill
WEATHER CONDITIONS: Cold -38°

BIT RECORD

Drilling or Core Bit No.	3E	
TYPE	OWV	
SIZE	9"	
NOZZ. SIZE	11/16	
SERIAL No.	13497	
DEPTH IN	4551	
DEPTH OUT		
FT. DRILLED	84	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	13½	
CONDITION	IN	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4592	43		4635		150	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		8
PUMP No. 2	850	6½	50	7 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	4:15	¼	RIG SERV & CHECK B.O.P.'S
4:15	12:00	7 ¾	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.3	10.3	10.3
VISC.	85	88	93	90
W.L.-C.C.	6.8	6.8	6.2	6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	25#		
QX.	50#		
DRISCOSS	25#	REG.	

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6
SIZE	1 1/8
FEET SLIPPED	44
FEET CUT OFF	70
PRESENT LENGTH	3430
TON MI. or TRIPS SINCE LAST CUT	212
CUMULATIVE TON MI. or TRIPS	715

NO. OF DAYS FROM SPUD	58
CUMULATIVE ROTATING HRS.	539 3/4
DAYS SINCE LAST ACCDNT.	87
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	358
DAY TOUR	312
EVENING TOUR	186

REPORT No. 59

DATE: FEB. 19. 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4 1/2
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: G. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS
No.: 1
PROVINCE: N.W.T.

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	214P
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7 3/4	3 3/4	7 3/4
TRIPPING		3 1/4	
RIG MAINTENANCE	1 1/4	1/2	1/4
RIG REPAIRS			
HOLE SURVEYS		1/4	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		1/4	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8.	8	

WIRE LINE RECORD

REEL NO. 2
NO. OF LINES 6 SIZE 1 1/16
FEET SLIPPED 44
FEET CUT OFF 70
PRESENT LENGTH 3430
TON MI. or TRIPS SINCE LAST CUT 148
CUMULATIVE TON MI. or TRIPS 651

NO. OF DAYS FROM SPUD 57
CUMULATIVE ROTATING HRS. 520 3/4
DAYS SINCE LAST ACCDNT. 86
DRILLER ACCDNT. FREE DAYS
MORNING TOUR 357
DAY TOUR 311
EVENING TOUR 185

MORNING TOUR

NO.	DRILLING ASSEMBLY		
114	STANDS DP	4009.32	FT.
2	SNGLS. DP	61.22	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY 6 1/4 OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	30.24	FT.
	TOTAL	4477.	FT.
WT OF STRING		71,000	LBS.

DRILLER: B. Pdolan
WEATHER CONDITIONS: CLEAR -24°

BIT RECORD

Drilling or Core Bit No.	34
TYPE	M44
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	360768
DEPTH IN	4405
DEPTH OUT	
FT. DRILLED	72
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	14 1/2
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4442	35		4477		150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6 1/2	50	6
PUMP No. 2	850	6 1/2	50	1 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
1200	1215	1/4	RIG SERV CHECK BOP'S
1215	800	7 3/4	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10.2
VISC.	95	80	85	86
W.L.-C.C.	6.5	6.3	6.2	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.0	9.0	9.0	9.0
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Tannathin	50 lbs.		
Caustic	25 lbs.		

DAY TOUR

NO.	DRILLING ASSEMBLY		
114	STANDS DP	4100.77	FT.
	SNGLS. DP		FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY 6 1/4 OD	4.10	FT.
	SUBS 6 1/4 OD	4.10	FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	19.01	FT.
	TOTAL	4496.00	FT.
WT OF STRING		71 M	LBS.

DRILLER: B. Williams
WEATHER CONDITIONS: Cloudy -15°

BIT RECORD

Drilling or Core Bit No.	34	33
TYPE	M44	OWV
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	360768	7927
DEPTH IN	4405	4484
DEPTH OUT	4484	
FT. DRILLED	79	12
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	16	2 1/4
CONDITION	GOOD	GOOD

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4477	19		4486	LIMESTONE & CHERT	150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6 1/2	50	
PUMP No. 2	850	6 1/2	50	2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4484	2°							

From	To	Elapsed Time	REMARKS
800	830	1/2	Rig Serv. Work On Kelly Bushings
830	1800	1 1/2	DRLG 9" HOLE
1800	1815	1/4	SURVEY
1815	1830	3/4	TRIP FOR BIT
1830	1845	1/4	BREAK CIRC & CLEAN TO BOTTOM.
1845	400	2 1/4	DRLG 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	TRIP		10.2
VISC.	80			83
W.L.-C.C.	6.4	CIR	1HR	6.2
FLTR. CK.	2/32			2/32
pH	9			9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
115	STANDS DP	4100.77	FT.
1	SNGLS. DP	30.22	FT.
12	D.C. OD 6 1/4 OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY 6 1/4 OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	21.79	FT.
	TOTAL	4529.00	FT.
WT OF STRING		71,000	LBS.

DRILLER: E. Mill
WEATHER CONDITIONS: -10°

BIT RECORD

Drilling or Core Bit No.	35
TYPE	OWV
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	7927
DEPTH IN	4484
DEPTH OUT	
FT. DRILLED	45
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	10
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4496	33		4529		150	18-20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6 1/2	50	7 3/4
PUMP No. 2	DIRE TANKS	6 1/2		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
400	415	1/4	Rig Service & Check B.O.P's.
415	1200	7 3/4	Drilling 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10.2
VISC.	87	85	85	83
W.L.-C.C.	6.6	6.4	6.6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 56

DATE: FEB 18 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP. GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4 1/2
TOOL JOINT: 6" OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3

OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Wm Parker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
	13 3/8	54.5 H.52	0	598	CONST	600	2% CACL

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7 3/4	5	6 3/4
TRIPPING		2 1/2	1
RIG MAINTENANCE	1 1/4	1/2	1/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6
SIZE	1 1/8
FEET SLIPPED	44
FEET CUT OFF	70
PRESENT LENGTH	3430
TON MI. or TRIPS SINCE LAST CUT	88
CUMULATIVE TON MI. or TRIPS	591
NO. OF DAYS FROM SPUD	56
CUMULATIVE ROTATING HRS.	50 1/2
DAYS SINCE LAST ACCDNT.	46
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	356
DAY TOUR	310
EVENING TOUR	184

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
43	STANDS DP	3916.18 FT.	Drilling or Core Bit No	33
2	SNGLS. DP	62.04 FT.	TYPE	OWV
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	4.10 FT.	SERIAL No.	19093
	SUBS OD	FT.	DEPTH IN	4319
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	62
	Kelly Down	26.56 FT.	FT. REAMED	
	TOTAL	4381 FT.	FT. CORED	
WT OF STRING		70,000 LBS.	CUM. HRS. RUN	11 3/4
DRILLER	R. Polan		CONDITION	IN.
WEATHER CONDITIONS	CLEAR -2°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4342	39		4381	LIMESTONE.	150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	975	6 1/2	57	3 3/4
PUMP No. 2	1000	6 1/2	59	4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12 00	12 15		1/4	RIG. SERVICE
12 15	8 00	7	3/4	DRILL 9" HOLE
				INSTALL NEW HEADS #1 PUMP ODS & #2 PUMP DS

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.2	10.2	10.2
VISC.	78	76	75	72
W.L.-C.C.	6.4	6.2	6.6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500 lbs		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
44	STANDS DP	4009.32 FT.	Drilling or Core Bit No.	33	34
	SNGLS. DP	FT.	TYPE	OWV	MHL
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	9"	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16	11/16
	STB BODY OD	4.10 FT.	SERIAL No.	19093	360768
	SUBS OD	FT.	DEPTH IN	4319	
	BIT OR C.B.	.60 FT.	DEPTH OUT	4405	
		FT.	FT. DRILLED	86	
	Kelly Down	19.96 FT.	FT. REAMED		
	TOTAL	4405.00 FT.	FT. CORED		
WT OF STRING		69M. LBS.	CUM. HRS. RUN	16 3/4	
DRILLER	B Williams		CONDITION	GOOD	NEW
WEATHER CONDITIONS	CLEAR -10				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4381	24		4405	LIMESTONE	150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	950	6 1/2	56	4
PUMP No. 2	950	6 1/2	56	1

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4405	2 1/2							

From	To	Elapsed Time		REMARKS
8 00	8 45		1/4	RIG SERVICE
8 45	1 15	5		DRLG 9" HOLE (LOST 50 BBLS MUD TO FORMATION @ 4390 - 4400)
1 15	1 30		1/4	SURVEY
1 30	3 00	1	1/2	PULL OUT
3 00	4 00	1		RUN IN

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2		
VISC.	82	78		
W.L.-C.C.	6.2	6.2		
FLTR. CK.	2/32	2/32		
pH	9.5	9.2		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	20 SAX		
SAWDUST	10 SAX		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
44	STANDS DP	4009.32 FT.	Drilling or Core Bit No.	34
1	SNGLS. DP	30.93 FT.	TYPE	MHL
12	D.C. OD 6 1/4 OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY 6 1/4 OD	4.10 FT.	SERIAL No.	360768
	SUBS OD	FT.	DEPTH IN	4405
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	37
	Kelly Down	25.53 FT.	FT. REAMED	
	TOTAL	4442.00 FT.	FT. CORED	
WT OF STRING		71,000 LBS.	CUM. HRS. RUN	6 3/4
DRILLER	E. Mill		CONDITION	IN
WEATHER CONDITIONS	Cold -24°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4405	37		4442		150	15-18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	44	6 1/4
PUMP No. 2	800	6 1/2	44	1/2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4 00	5 00	1		FINISH IN w/BIT #34
5 00	5 15		1/4	RIG SERV & CHECK B.O.P.'S
5 15	12 00	6	3/4	DRILLING 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.2	10.2	10.2
VISC.		200	100	95
W.L.-C.C.		5.4	7	7
FLTR. CK.		2/32	2/32	2/32
pH		9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	20 SAX		
CAUSTIC	40 #		
SX.	50 #		
DRISCOSE	50#		
TANNATHIN	50 #		

DEPT. OF NORTHERN AFFAIRS & NATIONAL RESOURCES
CALGARY, ALBERTA
FEB 23 1960
SUPERINTENDING ENGINEER
Northwest Territories & Yukon Territory

REPORT No. 57.

DATE: FEB. 17 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: NWT
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 76
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD TYPE THD: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Baker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8	52.5	0	598	CONST	600	29% CACL
	11					

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7 3/4	5	4
TRIPPING		2½	1¼
RIG MAINTENANCE	1/4	¼	¼
RIG REPAIRS			1½
HOLE SURVEYS		¼	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom.			¼
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			3/4
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	44
FEET CUT OFF	70
PRESENT LENGTH	3430
TON MI. or TRIPS SINCE LAST CUT	28
CUMULATIVE TON MI. or TRIPS	531
NO. OF DAYS FROM SPUD	55
CUMULATIVE ROTATING HRS.	482
DAYS SINCE LAST ACCDNT.	84
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	355
DAY TOUR	309
EVENING TOUR	183

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
42	STANDS DP	3824.78 FT.	Drilling or Core Bit No	32
2	SNGLS. DP	60.31 FT.	TYPE	M4L
12	D.C. OD	371.52 FT.	SIZE	9"
	OD		NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	352203
	STB BODY OD	FT.	DEPTH IN	4210
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	58
		FT.	FT. REAMED	21 3 1/4 HR
	Kelly Down	31.79 FT.	FT. CORED	
	TOTAL	4289 FT.	CUM. HRS. RUN	~~109~~ TOTAL
WT OF STRING		70000 LBS.	CONDITION	IN 13 1/4

DRILLER: R Nolan
WEATHER CONDITIONS: -12 CLEAR

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4240	49		4289		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	975	6½	56	7 3/4
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12 00	12 15		1/4	RIG SERV CHECK BOP's
12 15	8	7	3/4	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.3	10.3
VISC.	90	88	79	82
W.L.-C.C.	6.4	6.2	6.6	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
43	STANDS DP	3916.18 FT.	Drilling or Core Bit No.	32	32
	SNGLS. DP	FT.	TYPE	M4L	OWV
12	D.C. OD	371.52 FT.	SIZE	9"	9"
	OD		NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	352203	19093
	STB BODY OD	FT.	DEPTH IN	4210	4319
	SUBS OD	FT.	DEPTH OUT	4319	
	BIT OR C.B.	.60 FT.	FT. DRILLED	88	
		FT.	FT. REAMED	21	3 1/4 HR
	Kelly Down	31.30 FT.	FT. CORED		
	TOTAL	4319.00 FT.	CUM. HRS. RUN	17 1/4	
WT OF STRING		70M LBS.	CONDITION	GOOD	

DRILLER: B Williams
WEATHER CONDITIONS: -10 Clear

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4289	30		4319		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	975	6½	56	5
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4319	2 3/4							

From	To	Elapsed Time		REMARKS
8 00	9 00	1		DRLG 9" HOLE
9 00	9 15		1/4	RIG SERV CHECK BOP'S
9 15	1 15	4		DRLG 9" HOLE
1 15	1 30		1/4	SURVEY
1 30	3 00	1	1/2	PULL OUT OF HOLE
3 00	4 00	1		RUN IN DC'S & INSTALL STABILIZER

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.3	T
VISC.	72	76	76	R
W.L.-C.C.	6	6	6	I
FLTR. CK.	2/32	2/32	2/32	P
pH	9.5	9.5	9.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	400#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
43	STANDS DP	3916.18 FT.	Drilling or Core Bit No.	33
1	SNGLS. DP	30.62 FT.	TYPE	OWV
12	D.C. OD	371.52 FT.	SIZE	9"
	6¼ OD		NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	19093
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	4319
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	23
		FT.	FT. REAMED	
	Kelly Down	18.98 FT.	FT. CORED	
	TOTAL	4342.00 FT.	CUM. HRS. RUN	4
WT OF STRING		70,000 LBS.	CONDITION	IN

DRILLER: E. Mill
WEATHER CONDITIONS: Mild +2°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4319	23		4342		150	15-18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	975	6½	57	4¼
PUMP No. 2	CIRC TANKS	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4 00	4 15		1/4	RIG SERV. & CHECK B.O.P's
4 15	5 00		3/4	SLIP & CUT LINE SLIP 22' CUT 70'
5 00	6 30	1	1/2	WORK ON DRUM
6 30	7 45	1	1/4	RUN IN W/BIT #33
7 45	8 00		1/4	BREAK CIRC & CLEAN OUT TO BOTTOM.
8 00	12 00	4		DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	1		10.3	10.3
VISC.	1	R	78	80
W.L.-C.C.			6.4	6.4
FLTR. CK.		1	2/32	2/32
pH		9	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		
CAUSTIC	25#		
QX	50#		

REPORT No. 56

DATE: FEB 16, 1966

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1 | PROVINCE: NWT

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD | TYPE THD. FH | DRILL PIPE GRADE 2-3

OPERATOR'S REPRESENTATIVE: J. R. Brown. | CONTRACTOR'S TOOL PUSHER: A. Gay Carbon

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	11	11
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING ~~Coring~~	8	3½	11¼
TRIPPING		~~6¼~~	
RIG MAINTENANCE		1½	~~1½~~
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		1¼	
SUB TOTAL			
DAYWORK HOURS	8	17¼	5¼
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 2 (NFW) | NO. OF LINES 6 | SIZE 1/8
FEET SLIPPED 22
FEET CUT OFF —
PRESENT LENGTH 3500
TON MI. or TRIPS SINCE LAST CUT 475
CUMULATIVE TON MI. or TRIPS 475

NO. OF DAYS FROM SPUD 54
CUMULATIVE ROTATING HRS. 465 ¼
DAYS SINCE LAST ACCDNT. 84
DRILLER ACCDNT. FREE DAYS

MORNING TOUR	354
DAY TOUR	318
EVENING TOUR	182

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
41	STANDS DP	3733.44 FT.	Drilling or Core Bit No	4-16
1	SNGLS. DP	30.02 FT.	TYPE ◇	KOEBEL
	D.C. OD	FT.	SIZE	6 1/8
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	4210
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
	JARS	7.04 FT.	FT. REAMED	
	Kelly Down	24.61 FT.	FT. CORED	16
	TOTAL	4226 FT.	CUM. HRS. RUN	10½
WT OF STRING		72,000 LBS.	CONDITION	IN

DRILLER R. Nolan
WEATHER CONDITIONS — 10°

Depth At Beginning of Tour	Drilled This Tour	Cored or ~~Reamed~~ This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4214		12	4226		90	6-8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	900	6½	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	8⁰⁰	8		CUTTING CORE # 16
				Core # 16
				21' from 4210 to 4231'

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.3	10.3
VISC.	86	88	85	86
W.L.-C.C.	6.6	6.4	~~6.8~~	6.4
FLTR. CK.	~~3/32~~	~~3/32~~	~~3/32~~	~~3/32~~
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
41	STANDS DP	3733.44 FT.	Drilling or Core Bit No.	4-16
1	SNGLS. DP	30.02 FT.	TYPE	KOEBEL
	D.C. OD	FT.	SIZE	6 1/8
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	1
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	4210
	SUBS OD	FT.	DEPTH OUT	4231
	BIT OR C.B.	59.37 FT.	FT. DRILLED	-
	JARS	7.04 FT.	FT. REAMED	
	Kelly Down	29.61 FT.	FT. CORED	21
	TOTAL	4231 FT.	CUM. HRS. RUN	17¼
WT OF STRING		72M LBS.	CONDITION	GOOD

DRILLER B. Williams
WEATHER CONDITIONS — 8

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4226		5	4231		90	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	900	6½	35	3½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	11³⁰	3	½	D Coring CORING # 16
11³⁰	1⁰⁰	1	¾	PULL OUT W/ CORE BBL.
1⁰⁰	2¹⁵	1		RETRIEVE CORE STAND BACK CORE BBL
2¹⁵	2³⁰		¼	RIG SERV CHECK BOP'S
2³⁰	4⁰⁰	1	½	LINING UP MOTOR CLUTCHES

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3		
VISC.	86	85		
W.L.-C.C.	6.6			
FLTR. CK.				
pH	9.5			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
40	STANDS DP	3824.78 FT.	Drilling or Core Bit No.	32
1	SNGLS. DP	29.97 FT.	TYPE	MH-L
	D.C. OD	FT.	SIZE	9"
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	352203
	STB BODY OD	FT.	DEPTH IN	4210
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	9
		FT.	FT. REAMED	21 3¼HR.
	Kelly Down	13.13 FT.	FT. CORED	
	TOTAL	4240.00 FT.	CUM. HRS. RUN	1¼
WT OF STRING		70,000 LBS.	CONDITION	IN

DRILLER E. Mill
WEATHER CONDITIONS Cool — 14°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4210		21	4231		150	8-40
4231	9		4240		150	20-25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	56	5
PUMP No. 2	CIRC TANKS	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	RIG SERVICE & CHECK BOP.
4¹⁵	5³⁰	1	¼	LINE UP MOTOR CLUTCHES.
5³⁰	7⁰⁰	1	½	RUN IN W/BIT # 32
7⁰⁰	7³⁰		½	BREAK CIRC & CLEAN OUT TO BOTTOM.
7³⁰	10⁴⁵	3	¼	REAMING 6¼" TO 9" HOLE.
10⁴⁵	12⁰⁰	1	¼	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT			10.2	10.2
VISC.			88	90
W.L.-C.C.			7	6.2
FLTR. CK.			2/32	2/32
pH			9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	10.00#		
Caustic	85#		
DX	50#		

REPORT No. 55 DATE: FEB 15 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS
No.: 1
PROVINCE: N W T
OPERATOR'S REPRESENTATIVE: J. P. Brown.
CONTRACTOR'S TOOL PUSHER: D. Barker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING Coring	8	3½	11¼
TRIPPING		~~¼~~	
RIG MAINTENANCE		1½	½
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		1¼	
SUB TOTAL			
DAYWORK HOURS	8	17¾	5¼
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2 (NEW)
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	22
FEET CUT OFF	—
PRESENT LENGTH	3500
TON MI. or TRIPS SINCE LAST CUT	475
CUMULATIVE TON MI. or TRIPS	475
NO. OF DAYS FROM SPUD	54
CUMULATIVE ROTATING HRS.	465 ¼
DAYS SINCE LAST ACCDNT.	84
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	354
DAY TOUR	308
EVENING TOUR	182

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
41	STANDS DP	3733.44 FT.	Drilling or Core Bit No.	4-16
1	SNGLS. DP	30.02 FT.	TYPE	◇ KOEBEL
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	6 1/8
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	4440
	SUBS OD	FT.	DEPTH IN	4210
	BIT OR C.B.	59.37 FT.	DEPTH OUT	
	JARS	7.04 FT.	FT. DRILLED	
	Kelly Down	24.61 FT.	FT. REAMED	
	TOTAL	4226 FT.	FT. CORED	16
WT OF STRING		72,000 LBS.	CUM. HRS. RUN	10½
DRILLER	R. Nolan		CONDITION	IN
WEATHER CONDITIONS	-10°			

Depth At Beginning of Tour	Drilled This Tour	Cored or ~~Reamed~~ This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4214		12	4226		90	6-8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	900	6½	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	8⁰⁰	8	CUTTING CORE #16
			Core # 16
			21' from 4210 to 4231'

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.3	10.3
VISC.	86	88	85	86
W.L.-C.C.	6.6	6.4	~~6.8~~	6.4
FLTR. CK.	~~3/32~~	~~3/32~~	~~3/32~~	~~3/32~~
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
41	STANDS DP	3733.44 FT.	Drilling or Core Bit No.	4-16
1	SNGLS. DP	30.02 FT.	TYPE	KOEBEL
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	6 1/8
	RMR BODY OD	FT.	NOZZ. SIZE	/
	STB BODY OD	FT.	SERIAL No.	4440
	SUBS OD	FT.	DEPTH IN	4210
	BIT OR C.B.	59.37 FT.	DEPTH OUT	4231
	JARS	7.04 FT.	FT. DRILLED	-
	Kelly Down	29.61 FT.	FT. REAMED	
	TOTAL	4231.06 FT.	FT. CORED	21
WT OF STRING		72,000 LBS.	CUM. HRS. RUN	11¼
DRILLER	E. Williams		CONDITION	GOOD
WEATHER CONDITIONS	-8			

Depth At Beginning of Tour	Drilled This Tour	Cored or ~~Reamed~~ This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4226		5	4231		90	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	900	6½	35	3½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DE-	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	11³⁰	3 ½	O Coring CORING #16
11³⁰	1⁵	1 ¾	PULL OUT W/ CORE BBL.
1⁵	2⁰⁵	1	RETRIEVE CORE STANDBACK CORE BBL
2⁰⁵	2³⁰	¼	RIG SERV CHECK BOP'S
2³⁰	4⁰⁰	1 ½	LINING UP MOTOR CLUTCHES

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3		
VISC.	86	38		
W.L.-C.C.	6.6			
FLTR. CK.	/			
pH	9.5			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
42	STANDS DP	3824.78 FT.	Drilling or Core Bit No.	32
1	SNGLS. DP	29.97 FT.	TYPE	M44
	D.C. OD	FT.	SIZE	9"
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	352203
	STB BODY OD	FT.	DEPTH IN	4210
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	9
		FT.	FT. REAMED	21 3¼HR.
	Kelly Down	13.13 FT.	FT. CORED	
	TOTAL	4240.06 FT.	CUM. HRS. RUN	1¼
WT OF STRING		70,000 LBS.	CONDITION	IN
DRILLER	E. Mill			
WEATHER CONDITIONS	Cool -14°			

Depth At Beginning of Tour	Drilled This Tour	Cored or ~~Reamed~~ This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4210		21	4231		150	8-40
4231	9		4240		150	20-25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1000	6½	56	5
PUMP No. 2	CIRC TANKS	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	¼	RIG SERVICE & CHECK BOP.
4¹⁵	5³⁰	1 ¼	LINE UP MOTOR CLUTCHES.
5³⁰	7⁰⁰	1 ½	RUN IN W/BIT # 32
7⁰⁰	7³⁰	½	BREAK CIRC & CLEAN OUT TO BOTTOM.
7³⁰	10⁴⁵	3 ¼	REAMING 6½" TO 9" HOLE.
10⁴⁵	12⁰⁰	1 ¼	DRILING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT			10.2	10.2
VISC.			88	90
W.L.-C.C.			7	6.2
FLTR. CK.			~~2/32~~	~~2/32~~
pH			9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10,00#		
CAUSTIC	85#		
DX	50#		

REPORT No. 55

DATE: FEB 15 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT 5 3/4 OD; TYPE THD. FH
DRILL PIPE GRADE: 2-?
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS
No.: 1
PROVINCE: IV WT
OPERATOR'S REPRESENTATIVE: J. R. Brown.
CONTRACTOR'S TOOL PUSHER: H. Zutz

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	OILWELL	214P
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	5 3/4	7 3/4	1 1/4
TRIPPING			
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	2	7½	
TOTAL HOURS	8	8	

WIRE LINE RECORD

REEL NO. 2 (NEW)
NO. OF LINES 6 SIZE 1 1/8
FEET SLIPPED 22
FEET CUT OFF —
PRESENT LENGTH 3500
TON MI. or TRIPS SINCE LAST CUT 419
CUMULATIVE TON MI. or TRIPS 419

NO. OF DAYS FROM SPUD 53
CUMULATIVE ROTATING HRS. 460 3/4
DAYS SINCE LAST ACCDNT. 83
DRILLER ACCDNT. FREE DAYS
MORNING TOUR 353
DAY TOUR 388
EVENING TOUR 181

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
41	STANDS DP	3733.44 FT.	Drilling or Core Bit No	31
1	SNGLS. DP	30.05 FT.	TYPE	OWU
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY 6¼ OD	4.10 FT.	SERIAL No.	~~2894~~ 81594
	SUBS OD	FT.	DEPTH IN	4119
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	
	Kelly Down	29.29 FT.	FT. REAMED	9' 1 HR.
	TOTAL	4169.00 FT.	FT. CORED	
WT OF STRING		67,000 LBS.	CUM. HRS. RUN	5 3/4 TOTAL
DRILLER	H. Nolan		CONDITION	I N. G 2/4 HAK
WEATHER CONDITIONS	CLEAR -12°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4119		9	4128		150	10
4128	41		4169		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	875	6½	55	7
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	12¹⁵	1/4	RIG SERV. CHECK BOP'S
12¹⁵	1⁰⁰	3/4	FINISH IN W/ BIT # 31
1⁰⁰	1¹⁵	1/4	BREAK CIRC CLEAN OUT TO TOP OF RATHOLE
1¹⁵	2¹⁵	1	REAM 6 1/8 TO 9" HOLE
2¹⁵	8⁰⁰	5 3/4	DRILL 9" HOLE.
			STABILIZER 60' FROM BIT.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.2	10.3	10.3
VISC.		70	82	75
W.L.-C.C.		5.8	5.6	6.2
FLTR. CK.		2/32	2/32	2/32
pH		9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000 lbs		
CAUSTIC	10 lbs		
Q-X	5-0 lbs		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
41	STANDS DP	3733.44 FT.	Drilling or Core Bit No.	31
2	SNGLS. DP	60.64 FT.	TYPE	OWV
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY 6¼ OD	4.10 FT.	SERIAL No.	~~2894~~ 81594
	SUBS OD	FT.	DEPTH IN	4119
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	80
	Kelly Down	37.70 FT.	FT. REAMED	9' 1 HR.
	TOTAL	4208.00 FT.	FT. CORED	
WT OF STRING		LBS.	CUM. HRS. RUN	14½
DRILLER	B. Williams		CONDITION	OB
WEATHER CONDITIONS				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4169	39		4208			
					150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	875	6¼	60	
PUMP No. 2		6½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	10¹⁵	2	Drlg 9" Hole
10¹⁵	10¹⁵	1/4	Rig Serv Check BOP's
10¹⁵	4⁰⁰	5 3/4	Drlg 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10.3
VISC.	76	77	77	76
W.L.-C.C.	6.4	6.4	6.2	5.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
41	STANDS DP	3733.44 FT.	Drilling or Core Bit No.	31	4-16
1	SNGLS. DP	30.02 FT.	TYPE	OWV	HOLEDELL
	D.C. OD	FT.	SIZE	9	6 7/8
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	81594	4P4HC
	STB BODY OD	FT.	DEPTH IN	4119	4210
	SUBS OD	FT.	DEPTH OUT	4210	
	BIT OR C.B.	57.37 FT.	FT. DRILLED	82	
	JARS	7.04 FT.	FT. REAMED	9 in	
	Kelly Down	12.61 FT.	FT. CORED		4
	TOTAL	4214.00 FT.	CUM. HRS. RUN	13¾	2½
WT OF STRING		72,000 LBS.	CONDITION	DULL	IN
DRILLER	E. Mill				
WEATHER CONDITIONS	-10°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4208	2		4210		150	25
4210		4	4214		90	6-7

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	875	6½	56	1¼
PUMP No. 2	900	6½	35	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
4210	MIS RUN							

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	1/4	Drilling 9" Hole
4¹⁵	4³⁰	1/4	Rig Serv & Check BOP's
4³⁰	5³⁰	1	Circ Prior To Coring
5³⁰	5⁴⁵	1/4	Survey
5⁴⁵	9³⁰	3 3/4	Trip For Core Bbl
9³⁰	12⁰⁰	2 1/2	Cutting Core # 16

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				10.3
VISC.	X			83
W.L.-C.C.		R		6
FLTR. CK.			P	2/32
pH				9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 54

DATE: FEB 14 1960

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD | TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: H Zutz

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5	0	598	Neat	600 SAX	2½% CaCl2

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3¾		4¼
TRIPPING			2½
RIG MAINTENANCE	¼	1½	
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	½		1¼
SUB TOTAL			
DAYWORK HOURS	3½	7½	
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES / SIZE	
FEET SLIPPED	22'
FEET CUT OFF	—
PRESENT LENGTH	3500
TON MI. or TRIPS SINCE LAST CUT	335
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	52
CUMULATIVE ROTATING HRS.	144.7
DAYS SINCE LAST ACCDNT.	52
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	180
DAY TOUR	352.
EVENING TOUR	307

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
40	STANDS DP	3642.93 FT.	Drilling or Core Bit No.	30
2	SNGLS. DP	60.59 FT.	TYPE	OWV
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	13419
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	3995
	SUBS OD	FT.	DEPTH OUT	4119
	BIT OR C.B.	.60 FT.	FT. DRILLED	124
		FT.	FT. REAMED	
	Kelly Down	39.26 FT.	FT. CORED	
	TOTAL	4119.00 FT.	CUM. HRS. RUN	15
WT OF STRING	64,000 LBS.		CONDITION	D41 1/32E

DRILLER: E. Mill

WEATHER CONDITIONS: Cool - 10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4088	31		4119		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	6½		8
PUMP No. 2	950	6½	54	4¾

DEVIATION RECORD: DEPTH 4115 | DEV. Misrun | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time	REMARKS
12:00	12:15	¼	Rig Serv. + Check B.O.P.s
12:15	4:00	3¾	Drilling 9" Hole
4:00	5:00	1	Circ Prior To Coring.
5:00	5:15	¼	Survey
5:15	7:00	1¾	Pull Out Measure Out. 172 Dee.
7:00	7:30	½	Pickup J. Sub + Magnet Run In Collars.
7:30	8:00	½	Slip Drilling Line 22'

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3		
VISC.	90	87		
W.L.-C.C.	6.	6.4		
FLTR. CK.	2/32	2/32		
pH	9.5	9.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
40	STANDS DP	3642.93 FT.	Drilling or Core Bit No.	4-15
1	SNGLS. DP	30.17 FT.	TYPE	Koebel
	D.C. OD	FT.	SIZE	6'18
12	6¼ OD	371.52 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	4119
	SUBS OD	FT.	DEPTH OUT	4
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
	JARS	7.04 FT.	FT. REAMED	
	Kelly Down	16.97 FT.	FT. CORED	9
	TOTAL	4128.00 FT.	CUM. HRS. RUN	5¾
WT OF STRING	70,000 LBS.		CONDITION	Good New

DRILLER: B. Williams

WEATHER CONDITIONS: Cloudy -15°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4119		2	4121		90	6

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	600	6½	40	1½
PUMP No. 2	900	6½	35	

DEVIATION RECORD: DEPTH 4115 | DEV. 1° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time	REMARKS
8:00	8:30	½	Rig Serv. Check BOPs Serv (Blocks & Hook)
8:30	9:30	1	Run In W/ Junk Sub & Magnet
9:30	10:00	½	Circ Work Junk Sub & Magnet
10:00	10:15	¼	Survey
10:15	12:00	1¾	Pull Out W/ Junk Sub Magnet Clean Same (Check For Iron)
12:00	12:30	½	Pick Up Core Bbl & Jars
12:30	2:00	1½	Run In W/ Core Bbl
2:00	2:30	½	Circ Core Bbl. 2:30 - 4:00 Cutting Core #15.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				10.2
VISC.				98
W.L.-C.C.				5.6
FLTR. CK.				2/32
pH				9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
40	STANDS DP	3642.93 FT.	Drilling or Core Bit No.	4-15	31
1	SNGLS. DP	30.17 FT.	TYPE	Koebel	Low
	D.C. OD	FT.	SIZE	6'18	
12	6¼ OD	371.52 FT.	NOZZ. SIZE		
	RMR BODY OD	FT.	SERIAL No.	4440	8159
	STB BODY OD	FT.	DEPTH IN	4119	4128
	SUBS OD	FT.	DEPTH OUT	4128	
	BIT OR C.B.	59.37 FT.	FT. DRILLED		
	JARS	7.04 FT.	FT. REAMED		
	Kelly Down	16.97 FT.	FT. CORED	9	
	TOTAL	4128.00 FT.	CUM. HRS. RUN	5¾	
WT OF STRING	70M LBS.		CONDITION	Good	New

DRILLER: B. Williams

WEATHER CONDITIONS: Cloudy -15°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4121		7	4128		90	6
					90	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIR TANK	6½		
PUMP No. 2	900	6½	35	4

DEVIATION RECORD: DEPTH 4115 | DEV. 1° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
4:00	9:15	4	¼	Rig Comp
9:15	11:00	1	¾	Pull Out of Hole
11:00	11:15	1	¼	Recover Core, Scrape Bbl + Shed Rock
11:15	12:00		¾	Run in w/ Bit

Core #15 - 9' (4119 - 4123)

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2		
VISC.	94	92		
W.L.-C.C.	5.8	6.2		
FLTR. CK.	2/32	2/32		
pH	9.5	9.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 53 DATE: FEB 13, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills | No. 1 | PROVINCE: N.W.T

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD, TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. A. Lemm | CONTRACTOR'S TOOL PUSHER: H. Zutz

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil well	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	J-55	0	598	NEAT	600 SAX	2½% CaCl₂

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	5½	3½	9¾
TRIPPING	¾	2¼	
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS	1¼	2	
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 2 new
NO. OF LINES 6 SIZE 1/18
FEET SLIPPED —
FEET CUT OFF —
PRESENT LENGTH 3500
TON MI. or TRIPS SINCE LAST CUT 239
CUMULATIVE TON MI. or TRIPS 239

NO. OF DAYS FROM SPUD 51
CUMULATIVE ROTATING HRS. 437½
DAYS SINCE LAST ACCDNT. 81
DRILLER ACCDNT. FREE DAYS
MORNING TOUR 179
DAY TOUR 351
EVENING TOUR 306

MORNING TOUR

NO.	DRILLING ASSEMBLY		
39	STANDS DP	3551.95	FT.
1	SNGLS. DP	30.53	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	36.30	FT.
	TOTAL	3995.00	FT.
WT OF STRING		64,000	LBS.
DRILLER	E. Mill		
WEATHER CONDITIONS	−22°		

BIT RECORD

Drilling or Core Bit No	29
TYPE	MHN
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	287217
DEPTH IN	3874
DEPTH OUT	3995
FT. DRILLED	121
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	14¾
CONDITION	Hoisting

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3950	45		3995		150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	6¾
PUMP No. 2	CIRC TANKS	6½		8

DEVIATION RECORD: DEPTH 3990 | DEV. 1° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	Rig Service & Check B.O.P's
12¹⁵	3⁰⁰	2	¾	Drilling 9" Hole
3⁰⁰	4¹⁵	1	¼	Repair Chain in Dwks. (Rotary Drive Chain)
4¹⁵	7⁰⁰	2	¾	Drilling 9" Hole
7⁰⁰	7¹⁵		¼	Survey
7¹⁵	9⁰⁰		¾	Pull out w/bit

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	10.2	10.2	10.2	
VISC.	87	80	76	1
W.L.-C.C.	5.8	6.0	6.4	R
FLTR. CK.	2/32	2/32	2/32	1
pH	9.5	9.5	9.5	P
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
40	STANDS DP	3642.93	FT.
	SNGLS. DP	✓	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	12.85	FT.
	TOTAL	4032.	FT.
WT OF STRING		64,000	LBS.
DRILLER	Ed. Nolan		
WEATHER CONDITIONS	SUNNY − 15°		

BIT RECORD

Drilling or Core Bit No.	30
TYPE	OWV
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	13419
DEPTH IN	3995
DEPTH OUT	
FT. DRILLED	37
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	3½
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3995	37		4032		130	20
					150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	850	6½	57	2½
PUMP No. 2	950	6½	60	1

DEVIATION RECORD: DEPTH 3990 | DEV. 1° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	Rig Serv Check BOP's
8¹⁵	9⁰⁰		¾	Finish out w/ Bit # 29
9⁰⁰	11⁰⁰	2		Repair oil line in Dwks. Install new release valve on drive clutch. Repair water valve on Hydromatic
11⁰⁰	12³⁰	1	½	Run in w/ Bit # 30 (check stabilizer)
12³⁰	4⁰⁰	3	½	Drill 9" Hole. Stablizer 60' from bit.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT			10.2	10.2
VISC.			75	74
W.L.-C.C.			6.4	6.2
FLTR. CK.			2/32	2/32
pH			9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
40	STANDS DP	3642.93	FT.
1	SNGLS. DP	30.17	FT.
	D.C. OD		FT.
12	OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	39.62	FT.
	TOTAL	4088.	FT.
WT OF STRING		65M	LBS.
DRILLER	B. Williams		
WEATHER CONDITIONS	−25° Clear		

BIT RECORD

Drilling or Core Bit No.	30
TYPE	OWV
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	13419
DEPTH IN	3995
DEPTH OUT	
FT. DRILLED	94
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	11¼
CONDITION	OB

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
4032	56		4088			
					150	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	820	6½	57	1¾
PUMP No. 2	1100	6½	57	6

DEVIATION RECORD: DEPTH 3990 | DEV. 1° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	6³⁰	2	½	Drlg 9" Hole
6³⁰	6⁴⁵		¼	Rig Serv
6⁴⁵	12⁰⁰	5	¼	Drlg 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	10.3	10.3	10.3	10.3
VISC.	74	75	75	77
W.L.-C.C.	6.4	6.4	6.4	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	15 #		
Tannathin	50 #		
Gel	150 #		

REPORT No. 52 DATE: Feb 12, 60

DAILY DRILLING REPORT

OPERATOR | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD | TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown. | CONTRACTOR'S TOOL PUSHER: A Zutz

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/4	54.5	0	528	NEAT	600 SKS	2% CaCl2

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7 3/4	3 1/2	7 1/2
TRIPPING		3	
RIG MAINTENANCE	1/4	1 1/4	1/4
RIG REPAIRS		1 1/4	1/4
HOLE SURVEYS		1 1/4	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		1 1/4	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		1 1/2	
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2 (new)
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	—
FEET CUT OFF	—
PRESENT LENGTH	3300
TON MI. or TRIPS SINCE LAST CUT	191
CUMULATIVE TON MI. or TRIPS	191
NO. OF DAYS FROM SPUD	50
CUMULATIVE ROTATING HRS.	420 1/4
DAYS SINCE LAST ACCDNT.	80
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	178
DAY TOUR	350
EVENING TOUR	305

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
39	STANDS DP	3551.34 FT.	Drilling or Core Bit No.	28
	SNGLS. DP	FT.	TYPE	M4N
	D.C. OD	FT.	SIZE	9"
9	6 1/4 OD	278.50 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	360641
	STB BODY OD	4.10 FT.	DEPTH IN	3790
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	73
		FT.	FT. REAMED	
	Kelly Down	28.46 FT.	FT. CORED	
	TOTAL	3863.00 FT.	CUM. HRS. RUN	11 3/4
WT OF STRING		62,000 LBS.	CONDITION	IN

DRILLER: E Mill

WEATHER CONDITIONS: Cold -20 Light Snow.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3820	43		3863		150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	7 3/4
PUMP No. 2	CIRC TANKS.	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12[45]	12[10]	1/4	Rig Service + Check B.O.P.'s
12[15]	8[00]	7 3/4	Drilling 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.1	10.1	10.1
VISC.	78	76	76	75
W.L.-C.C.	7	7	6.6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	25 sx		
Q X	50 sx		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
38	STANDS DP	3490.94 FT.	Drilling or Core Bit No.	28	29
1	SNGLS. DP	FT.	TYPE	M4N	M4N
	D.C. OD	FT.	SIZE	9"	9"
12	6 1/4 OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	360641	287219
	STB BODY OD	4.10 FT.	DEPTH IN	3790	3874
	SUBS OD	FT.	DEPTH OUT	3874	
	BIT OR C.B.	.60 FT.	FT. DRILLED	84	10
		FT.	FT. REAMED		
	Kelly Down	16.84 FT.	FT. CORED		
	TOTAL	3884 FT.	CUM. HRS. RUN	13½	13¼
WT OF STRING		66,000 LBS.	CONDITION	Dull	IN.

DRILLER: R Nolan

WEATHER CONDITIONS: SUNNY -15°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3863	21		3874		150	18
3874			3884		125	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	1 3/4
PUMP No. 2	825	6½	60	2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3874	1½°	490	90					

From	To	Elapsed Time	REMARKS
8[00]	8[15]	1/4	Rig Serv. Check BOP's
8[15]	10[00]	1 3/4	Drill 9" Hole
10[00]	10[15]	1/4	Survey @
10[15]	11[45]	1 1/2	Pull out of hole @ Bit #28
11[45]	12[15]	1/2	Change ~~Bits~~ Stabilizer. Check Blind Rams.
12[15]	1[45]	1 1/2	Run in hole 80 @ 29 - Pick 1 more stand DC's Lay down 3 singles
1[45]	2[00]	1/4	Brake Circ Clean 5' To Bottom
2[00]	3[45]	1 3/4	Drill 9" Hole. 3[45]-4[00] Pull Hydomatic out

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2			10.2
VISC.	80			52
W.L.-C.C.	6.2			5.8
FLTR. CK.	2/32			2/32
pH	9.5			9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
39	STANDS DP	3551.95 FT.	Drilling or Core Bit No.	29
	SNGLS. DP	FT.	TYPE	M4N
	D.C. OD	FT.	SIZE	9"
12	6 1/4 OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	287219
	STB BODY OD	4.10 FT.	DEPTH IN	3874
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	26
		FT.	FT. REAMED	
	Kelly Down	21.69 FT.	FT. CORED	
	TOTAL	3950 FT.	CUM. HRS. RUN	9 1/4
WT OF STRING		64M LBS.	CONDITION	Good

DRILLER: B Williams

WEATHER CONDITIONS: -24 Clear.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3884	66		3950			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	
PUMP No. 2	825	6½	60	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3874	1½°							

From	To	Elapsed Time	REMARKS
4[00]	4[15]	1/4	Rig Serv.
4[15]	9[45]	5 1/2	Drlg 9" Hole
9[45]	10[00]	1/4	Trip + Pick up Hydromatic
10[00]	12[00]	2	Drlg 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10.2
VISC.	83	81	76	88
W.L.-C.C.	6.2	6.2	6.2	5.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	50#		
Q X	50#		
Gel	1000#		

REPORT No. 51

DATE: FEB 11, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP.
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRAND VIEW HILLS No. 1
PROVINCE: N.W.T

CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO. 16
DRILL PIPE STRING NO. SIZE 4½
TOOL JOINT 5¾ OD
TYPE THD. F.H.
DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. Brown.
CONTRACTOR'S TOOL PUSHER: Hank Jutz.

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5	0	589	NEAT	600 SAX	22% CaCl₂

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	6¼	4
TRIPPING		1	12½
RIG MAINTENANCE	¼	1¼	2
RIG REPAIRS			
HOLE SURVEYS		¼	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS		¼	
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2 (NEW)
NO. OF LINES	6 SIZE 1"
FEET SLIPPED	—
FEET CUT OFF	—
PRESENT LENGTH	3500'
TON MI. or TRIPS SINCE LAST CUT	139
CUMULATIVE TON MI. or TRIPS	139
NO. OF DAYS FROM SPUD	49
CUMULATIVE ROTATING HRS.	402
DAYS SINCE LAST ACCDNT.	79
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	177
DAY TOUR	349
EVENING TOUR	107

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
37	STANDS DP	3366.84 FT.	Drilling or Core Bit No.	27
2	SNGLS. DP	62.09 FT.	TYPE	OWC
	D.C. OD	FT.	SIZE	9"
9	D.C. 6¼ OD	278.50 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	94341
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	3690
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	60
		FT.	FT. REAMED	
	Kelly Down	37.87 FT.	FT. CORED	
	TOTAL	3750.00 FT.	CUM. HRS. RUN	9¼
WT OF STRING	62,000 LBS.		CONDITION	IN

DRILLER: E. Mills
WEATHER CONDITIONS: Cold - 26°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3700	50		3750		150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	7¾
PUMP No. 2	CIRC TANKS	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
1200	1215	¼	RIG SERVICE & CHECK B.O.P's
1215	800	7¾	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	10	10	10	10
VISC.	87	85	75	73
W.L.-C.C.	6.6	6.4	6.8	7
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	400 lbs		
DRISCOSE	25 lbs	BEG	

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
38	STANDS DP	3458.95 FT.	Drilling or Core Bit No.	27
1	SNGLS. DP	31.36 FT.	TYPE	OWC
	D.C. OD	FT.	SIZE	9"
9	D.C. 6¼ OD	278.50 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	94341
	STB BODY OD	4.10 FT.	DEPTH IN	3690
	SUBS OD	FT.	DEPTH OUT	3790
	BIT OR C.B.	.60 FT.	FT. DRILLED	100
		FT.	FT. REAMED	
	Kelly Down	16.50 FT.	FT. CORED	
	TOTAL	3790 FT.	CUM. HRS. RUN	15½
WT OF STRING	62,000 LBS.		CONDITION	Dull

DRILLER: A. Holcan
WEATHER CONDITIONS: CLOUDY - 12°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3750	40		3790		150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	6¼
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3790	1½°							

From	To	Elapsed Time	REMARKS
800	815	¼	RIG SERV CHECK BOP's
815	230	6 ¼	DRILL 9" HOLE
230	245	¼	CIRC SAMPLE
245	300	¼	SURVEYS
300	400	1	PULLING OUT W/ BIT #27

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	
VISC.	75	76	74	
W.L.-C.C.	6.4	6.6	6.4	
FLTR. CK.	2/32	2/32	2/32	
pH	9	9	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
TANNATHIN	50 lbs		
CAUSTIC	15 lbs		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
38	STANDS DP	3458.95 FT.	Drilling or Core Bit No.	28
2	SNGLS. DP	61.97 FT.	TYPE	M4N
	D.C. OD	FT.	SIZE	9"
9	D.C. OD	278.50 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	360691
	STB BODY OD	4.10 FT.	DEPTH IN	3790
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	60 FT.	FT. DRILLED	30
		FT.	FT. REAMED	
	Kelly Down	15.88 FT.	FT. CORED	
	TOTAL	3826 FT.	CUM. HRS. RUN	4
WT OF STRING	62,000 LBS.		CONDITION	RUN

DRILLER: G. Coyne
WEATHER CONDITIONS: -28°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3790	30		3820		150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	
PUMP No. 2	CIR TANK	6½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3790	1½							

From	To	Elapsed Time	REMARKS
4	430	½	FINISH HOISTING
430	5	½	RIG SERV & BOP CHECK.
5	630	1½	CHANGE OVER LINE SPOOLER TOWIT'S CHECK BEARING WEAR
630	8	1½	RUNNING BIT NO 28
8	12	4	DRLG 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	TRIP		10.1	10.1
VISC.	& CIR		77	78
W.L.-C.C.	' HR		5.4	
FLTR. CK.			2/32	2/32
pH			9	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 50 DATE: FEB 10, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD | TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: G. R. Brown. | CONTRACTOR'S TOOL PUSHER: H. Zutz

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil Well	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8	54.5	0	589	NEAT	600 sax	2% CaCl2

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6	7¾	3½
TRIPPING	1½		2¾
RIG MAINTENANCE	¼	1¼	½
RIG REPAIRS			
HOLE SURVEYS			¼
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	¼		½
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			½
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2 (New)
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	—
FEET CUT OFF	—
PRESENT LENGTH	3500
TON MI. or TRIPS SINCE LAST CUT	98
CUMULATIVE TON MI. or TRIPS	98
NO. OF DAYS FROM SPUD	48
CUMULATIVE ROTATING HRS.	384
DAYS SINCE LAST ACCDNT.	78
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	176
DAY TOUR	348
EVENING TOUR	106

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
36	STANDS DP	3274.30 FT.	Drilling or Core Bit No.	26
2	SNGLS. DP	61.93 FT.	TYPE	OWV
	D.C. OD	FT.	SIZE	9"
9	6¼ OD	278.50 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	19090
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	3615
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	33
		FT.	FT. REAMED	
	Kelly Down	28.57 FT.	FT. CORED	
	TOTAL	3648.00 FT.	CUM. HRS. RUN	6
WT OF STRING	62,000 LBS.		CONDITION	IN

DRILLER: L. Mill

WEATHER CONDITIONS: -22°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3615	33		3648		150	15-18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	6
PUMP No. 2	Bi-Pass TANK	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12 00	12 15		¼	Rig Service & Check B.O.P.s
12 15	1 45	1	½	Run in w/Bit #26
1 45	2 00		¼	Break Circ & Clean Out To Bottom.
2 00	8 00	6		Drilling 9" Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	10
VISC.	76	76	73	78
W.L.-C.C.		6.8	6.2	6.4
FLTR. CK.	2	2/32	2/32	2/32
pH		9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
37	STANDS DP	3366.84 FT.	Drilling or Core Bit No.	26
	SNGLS. DP	✓ FT.	TYPE	OWV
	D.C. OD	FT.	SIZE	9"
9	6¼ OD	278.50 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	19090
	STB BODY OD	4.10 FT.	DEPTH IN	3615
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	67
		FT.	FT. REAMED	
	Kelly Down	31.96 FT.	FT. CORED	
	TOTAL	3682. FT.	CUM. HRS. RUN	13 3/4
WT OF STRING	60,000 LBS.		CONDITION	IN

DRILLER: H. Nolan

WEATHER CONDITIONS: SUNNY -10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3648	34		3682	CHERT DOLMITE	150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	7¾
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8 00	8 15		¼	Rig Serv Check BOP's
8 15	9 00	7	¾	Drill 9" Hole.

STABILIZER 60' FROM BIT.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.1	10.1	10.
VISC.	77	80	78	82
W.L.-C.C.	5.8	5.6	5.6	6.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
37	STANDS DP	3366.84 FT.	Drilling or Core Bit No.	26	27
	SNGLS. DP	31.23 FT.	TYPE	OWV	OWC
	D.C. OD	FT.	SIZE	9"	9"
9	6¼ OD	278.50 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	19090	94341
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	3615	3690
	SUBS OD	FT.	DEPTH OUT	3690	
	BIT OR C.B.	.60 FT.	FT. DRILLED	75	10
		FT.	FT. REAMED		
	Kelly Down	15.73 FT.	FT. CORED		
	TOTAL	3700 FT.	CUM. HRS. RUN	15 3/4	11½
WT OF STRING	63,000 LBS.		CONDITION	DULL	RUN

DRILLER: [illegible]

WEATHER CONDITIONS: -25°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3682	18		3700		150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	
PUMP No. 2	GIR TANK	6½	56	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3690	1¾							

From	To	Elapsed Time		REMARKS
4	4 15		¼	Rig Serv BOP Check
4 15	6 15	2		Drill 9" Hole
6 15	6 45		½	Circ Sample.
6 45	7		¼	Survey
7	8 15	1	¼	Hoist out w/Bit
8 15	8 30		¼	Check BOP Rams
8 30	10	1	½	Run in w/Bit 27
10	10 30		½	Break Circ Ream out To Bottom

10 30 12 00 = Drlg 9" Hole (1½)

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.1	TRIP	10.1
VISC.	78	76	CIRC	78
W.L.-C.C.	6.8	6.4	IN	
FLTR. CK.	2/32	2/32		
pH	8.5	8.5		9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	50#		
QUEBRACHO	50#		
GEL	600#		

REPORT No. 49 DATE: FEB 9, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE | TOOL JOINT 5 3/4 OD | TYPE THD. F.H. | DRILL PIPE GRADE D

OPERATOR'S REPRESENTATIVE: J. B. Brown | CONTRACTOR'S TOOL PUSHER: Hank Zutz

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil Well	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8	54.5	0	589	Neat	600 sax	22 Centz

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			4 3/4
TRIPPING			1 3/4
RIG MAINTENANCE		1/4	1/4
RIG REPAIRS	5 1/2		
HOLE SURVEYS			1/4
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	2 1/2	7 3/4	1
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	2 (NEW)
NO. OF LINES	6 SIZE 1/8
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	38
CUMULATIVE TON MI. or TRIPS	38
NO. OF DAYS FROM SPUD	47
CUMULATIVE ROTATING HRS.	366 3/4
DAYS SINCE LAST ACCDNT.	77
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	175
DAY TOUR	347
EVENING TOUR	105

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
35	STANDS DP	3182.44 FT.	Drilling or Core Bit No.	25
2	SNGLS. DP	62.49 FT.	TYPE	OWC
	D.C. OD	FT.	SIZE	9
9	D.C. 6 1/4 OD	278.80 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	12939
	STB BODY 6 1/4 OD	4.10 FT.	DEPTH IN	3545
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	16.87 FT.	FT. CORED	
	TOTAL	3546.00 FT.	CUM. HRS. RUN	
WT OF STRING		60,000 LBS.	CONDITION	

DRILLER: E. Mills

WEATHER CONDITIONS: Cold. -38

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3545						

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12 00			Finish Repair Head Ache Post, Thaw out Kelly Hose
	5 30	5 1/2	& Kelly.
5 30			Run In To Ream Stand Back 3 Collars
			Pick up 3 Singles Install Stablizer 60' From
2	8 00	2 1/2	Bottom.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
36	STANDS DP	3274.30 FT.	Drilling or Core Bit No.	25
	SNGLS. DP	FT.	TYPE	OWC
	D.C. OD	FT.	SIZE	9"
9	D.C. 6 1/4 OD	278.50 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	12939
	STB BODY OD	4.10 FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED	35
	Kelly Down	2250 FT.	FT. CORED	
	TOTAL	3580 FT.	CUM. HRS. RUN	6 3/4
WT OF STRING		60,000 LBS.	CONDITION	IN.

DRILLER: H. Holan

WEATHER CONDITIONS: -20°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3545		35	3580		135	10/15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	775	6 1/2	57	6 1/2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8 00	8 15	1/4	Rig Serv Check Bop's
8 15	8 45	1/2	Circ Heavy Mud out of Hole
8 45	1 30	4 3/4	Ream 6 1/8 To 9" Hole
1 30	2 00	1/2	Survey w/ Wire Line Couldn't Reach Bottom
2 00	4 00	2	Ream 6 1/8 To 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.	10.	10
VISC.		68	73.	82
W.L.-C.C.		5.8	5.6	5.4
FLTR. CK.		3/32	2/32	2/32
pH		9.	9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Bel	1000 lbs.		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
35	STANDS DP	3274.30 FT.	Drilling or Core Bit No.	25
1	SNGLS. DP	31.13 FT.	TYPE	OWC
	D.C. OD	FT.	SIZE	9"
9	D.C. 6 1/4 OD	278.50 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	12939
	STB BODY OD	4.10 FT.	DEPTH IN	3545
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	22
		FT.	FT. REAMED	48 7 3/4
	Kelly Down	26.37 FT.	FT. CORED	55 1/4
	TOTAL	3615 FT.	CUM. HRS. RUN	4 3/4 12 1/2
WT OF STRING		64,000 LBS.	CONDITION	Loose

DRILLER: A. Layne.

WEATHER CONDITIONS: -25

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3580		13	3593		130	12
3593	22		3615		150	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	Cir Tank	6 1/2		
PUMP No. 2	775	6 1/2	56	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3615	2 1/4							

From	To	Elapsed Time	REMARKS
4	4 15	1/4	Rig Serv & Bop Check
4 15	5 15	1	Reaming
5 15	10	4 3/4	Drlg 9" Hole.
10	10 15	1/4	Survey @ 3615
10 15	12	1 3/4	Hoist out w/ B.T

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10	10.1	
VISC.	85	76	77	
W.L.-C.C.	6.2	6.4	6.2	
FLTR. CK.	2/32	2/32	2/32	
pH	9	9	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	15#		
Tannathin	50		

REPORT No. 48 DATE: FEB 8, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 1 4½
TOOL JOINT: 5¾ OD
TYPE THD.: F.H.
DRILL PIPE GRADE: D
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRAND ORIENT HILLS
No.: 1
PROVINCE: Alb T
OPERATOR'S REPRESENTATIVE: J. R. Burns
CONTRACTOR'S TOOL PUSHER: Hank Zutz

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
	13⅜	54.5	0	589	Neat	600 SKS	82 BBLS

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS	6	8	8
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	6	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES SIZE	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	

NO. OF DAYS FROM SPUD	46
CUMULATIVE ROTATING HRS.	354¼
DAYS SINCE LAST ACCDNT.	76
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	104
DAY TOUR	174
EVENING TOUR	346

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: G Rapp
WEATHER CONDITIONS: Cl -20°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	8	8	Work on Crown

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E. Mill
WEATHER CONDITIONS: -20°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	4⁰⁰	8	Work on Crown

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
WT OF STRING		LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E Nolan
WEATHER CONDITIONS: CLEAR -36°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	12⁰⁰	8	STRING NEW DRLG LINE REPAIR HEAD ACHE POST AIR LINE TO HYDROMATIC. GREASE LINES. INSTALL TURN BUCKLES TO DRWKS FROM SUBBASE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 47 DATE: FEB 7/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD Pet. CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
OPERATOR'S REPRESENTATIVE: G. R. Brown
CONTRACTOR'S TOOL PUSHER: Hank Fritz
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: B.C.

DRILL PIPE STRING NO. SIZE: 1 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: F.H.
DRILL PIPE GRADE: 2-S

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS	4	8	8
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	1		
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	3541/4
DAYS SINCE LAST ACCDNT.	75
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	103
DAY TOUR	173
EVENING TOUR	345

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
	WT OF STRING	LBS.	CONDITION	

DRILLER: L Payne
WEATHER CONDITIONS:

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12	1	1		Recover Core Ser Bbl.
1	8	7		Work on Crown.

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
	WT OF STRING	LBS.	CONDITION	

DRILLER: E. Mill
WEATHER CONDITIONS: -15

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	4:00	8		Work on Crown.

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
	WT OF STRING	LBS.	CONDITION	

DRILLER: H Nolan
WEATHER CONDITIONS: -150.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:00	12:00	8		CHANGING CROWN SHELVES

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 46

DATE: FEB 6/60

DAILY DRILLING REPORT

OPERATOR: Banfield Oil Corp | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills No. 1 | PROVINCE: D.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO.: 16 | DRILL PIPE STRING NO. SIZE: 1 4½ | TOOL JOINT: 5¾ OD, TYPE THD. FH | DRILL PIPE GRADE: E-3

OPERATOR'S REPRESENTATIVE: G. R. Brown | CONTRACTOR'S TOOL PUSHER: Hans Forbes

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5	0	589	Neat	600sks	2% CaCl2

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS	¼	8	6
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	7¾		2
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	SIZE
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	354¼
DAYS SINCE LAST ACCDNT.	74
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	102
DAY TOUR	172
EVENING TOUR	344

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3094.80 FT.	Drilling or Core Bit No	4-14
	SNGLS. DP	29.30 FT.	TYPE	O
	D.C. OD	FT.	SIZE	6⅛
12	6¼ OD	371.52 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	3545'
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	38.01 FT.	FT. CORED	48
	TOTAL	3593.00 FT.	CUM. HRS. RUN	22
WT OF STRING	68M LBS.		CONDITION	
DRILLER	Ryan.			
WEATHER CONDITIONS	-20			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3576		17	3593		90	10.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIR TANK	6½		
PUMP No. 2	900	6½	35	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	7.15	7 ¼	O Coring #14.
7	7.30		Break off Core
7.30	9		Hoist out Rod into Crowd.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10	9.9	9.9
VISC.	54	80	76	76
W.L.-C.C.	6.8	6.7	6.8	6.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3094.80 FT.	Drilling or Core Bit No.	
1	SNGLS. DP	29.30 FT.	TYPE	
	D.C. OD	FT.	SIZE	
12	6¼ OD	371.52 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	38.01 FT.	FT. CORED	
	TOTAL	3593.00 FT.	CUM. HRS. RUN	
WT OF STRING	68,000 LBS.		CONDITION	
DRILLER	E. Mill			
WEATHER CONDITIONS	-20°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3593	-	-	3593			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC	6½		8
PUMP No. 2	TANKS "	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8.00	4.00	8 00	Repair Crown & Floor.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3094.80 FT.	Drilling or Core Bit No.	
1	SNGLS. DP	29.30 FT.	TYPE	
	D.C. OD	FT.	SIZE	
12	6¼ OD	371.52 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	38.01 FT.	FT. CORED	
	TOTAL	3593.00 FT.	CUM. HRS. RUN	
WT OF STRING	68,000 LBS.		CONDITION	
DRILLER	A. Phelan			
WEATHER CONDITIONS	-150			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
			3593			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4.00	10.00	6	Repair [redacted] Crown Rotary Guard
			Slip new drilling line in Crown & Blocks.
10.00	12.00	2	Pull out w/ Core Bbl

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 45 DATE: FEB 5/60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grand View Hills No. 1 | PROVINCE: A.G.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE | TOOL JOINT 5 3/4 OD, TYPE THD. F.H. | DRILL PIPE GRADE 2-3

OPERATOR'S REPRESENTATIVE: J. R. Brown. | CONTRACTOR'S TOOL PUSHER: Doug Baker

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214P.
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4		
TRIPPING			
RIG MAINTENANCE		1/2	
RIG REPAIRS	1/4		
HOLE SURVEYS	1/4		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	3 1/4	7 1/2	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	0
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	72
CUMULATIVE TON MI. or TRIPS	1117
NO. OF DAYS FROM SPUD	43
CUMULATIVE ROTATING HRS.	354 1/4
DAYS SINCE LAST ACCDNT.	73
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	101
DAY TOUR	171
EVENING TOUR	343

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3091.73 FT.	Drilling or Core Bit No.	24
2	SNGLS. DP	62.49 FT.	TYPE	DWV
	D.C. OD	FT.	SIZE	9"
12	6 1/4 OD	371.52 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	13421
	STB BODY 6 1/4 OD	4.10 FT.	DEPTH IN	3487
	SUBS OD	FT.	DEPTH OUT	3545'
	BIT OR C.B.	60 FT.	FT. DRILLED	58
		FT.	FT. REAMED	
	Kelly Down	14.56 FT.	FT. CORED	
	TOTAL	3545' FT.	CUM. HRS. RUN	15 1/4
WT OF STRING	160,000 LBS.		CONDITION	FAIR
DRILLER	E. Mayne.			
WEATHER CONDITIONS	20°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3529	16		3545		160	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6 1/2	56	
PUMP No. 2	CIR TANK	6 1/2		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3545	2 1/4							

From	To	Elapsed Time		REMARKS
12	12:15		1/4	Rig Serv & BOP Check
12:15	4:15	4		Drlg 9" Hole
4:15	5		3/4	Circ Prior To Core
5	5:15		3/4	Survey
5:15	7:15	P	3/4	Hoist Out To Core D. Mins. 37 Deff & 2 Std
7:15	7:30		1/4	Pick Up Core Bbl
7:30	8		1/2	Run In To Core #14

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	9.9		
VISC.	64	75		
W.L.-C.C.	6.2	Lola		
FLTR. CK.	2/32	2/32		
pH	9.5	9.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3094.80 FT.	Drilling or Core Bit No.	4-14
	SNGLS. DP	FT.	TYPE	D Koebel
	D.C. OD	FT.	SIZE	6 1/8
12	6 1/4 OD	371.52 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	3545
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	32.31 FT.	FT. CORED	13
	TOTAL	3558.00 FT.	CUM. HRS. RUN	6 3/4
WT OF STRING	70,000 LBS.		CONDITION	IN
DRILLER	E Mill			
WEATHER CONDITIONS	Mild + 22°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3545		13	3558		90	8-10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC THRU	6 1/2		7
PUMP No. 2	775	6 1/2	35	7

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	8:30		1/2	Finish Run In w/ Core Bbl.
8:30	9:00		1/2	Rig Service & Check B.O.P.'s
9:00	9:15		1/4	Circ Core Bbl.
9:15	4:00	6	3/4	Cutting @ Core # 14

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	10
VISC.	82	78	77	77
W.L.-C.C.	6.2	6.4	6.4	7.0
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3094.80 FT.	Drilling or Core Bit No.	H-14
1	SNGLS. DP	29.30 FT.	TYPE ◇	Koebel
	D.C. OD	FT.	SIZE	6 1/8
12	6 1/4 OD	371.52 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	H440
	STB BODY OD	FT.	DEPTH IN	3545
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	21.01 FT.	FT. CORED	31
	TOTAL	3516 FT.	CUM. HRS. RUN	14 3/4
WT OF STRING	68,000 LBS.		CONDITION	IN
DRILLER	B Nolan			
WEATHER CONDITIONS	CLEAR 0°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3558		18	3576		90	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	800	6 1/2	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:00	12:00	8		Cutting Core # 14

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	10.1
VISC.	82	79	82	80
W.L.-C.C.	6.8	6.6	6.8	6.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 44 DATE: FEB 4/60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills No. 1 | PROVINCE: A.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16. | DRILL PIPE STRING NO. SIZE: 1 4½ | TOOL JOINT: 5-3/4 OD, TYPE THD. F-H. | DRILL PIPE GRADE: 2-3

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Baker

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4¼	6¼	5
TRIPPING	1¾	½	
RIG MAINTENANCE	1¾	½	¼
RIG REPAIRS			7¾
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		¾	
WORKING OR STUCK PIPE			
FISHING			
LOSY CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 6 SIZE	1 1/8
FEET SLIPPED	26
FEET CUT OFF	52
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	24
CUMULATIVE TON MI. or TRIPS	1069
NO. OF DAYS FROM SPUD	42
CUMULATIVE ROTATING HRS.	351 1/4
DAYS SINCE LAST ACCDNT.	72
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	100
DAY TOUR	170
EVENING TOUR	342

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	3091.73 FT.	Drilling or Core Bit No.	23
	SNGLS. DP	FT.	TYPE	OWV
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY 6¼ OD	4.10 FT.	SERIAL No.	15387
	SUBS OD	FT.	DEPTH IN	3319
	BIT OR C.B.	1.0 FT.	DEPTH OUT	3487
		FT.	FT. DRILLED	138
	Kelly Down	18.04 FT.	FT. REAMED	30 4HRS
	TOTAL	3487 FT.	FT. CORED	
WT OF STRING	144M LBS.		CUM. HRS. RUN	14½
DRILLER	E Rayne		CONDITION	Dull
WEATHER CONDITIONS	-15			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3452	25		3487		25	140

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	6½	56	
PUMP No. 2	CIR TANK	6½		

DEVIATION RECORD: DEPTH 3487 DEV. 2° DIRECTION | DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
12	12⁵		½	Rig Serv BOP Check
12⁵	4³⁰	4	¼	Drlg 9" Hole
4³⁰	6	1	¼	Hoist out w/Bit. Survey ¼°
6	7³⁰	1	½	Slip cut D.Line 21' 52
7³⁰	8		½	Run in w/Bit 24

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.1		
VISC.	77	75		
W.L.-C.C.	6.4	6.4		
FLTR. CK.	2/32	2/32		
pH	9	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3091.73 FT.	Drilling or Core Bit No.	24
	SNGLS. DP	FT.	TYPE	OWV
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY 6¼ OD	4.10 FT.	SERIAL No.	13421
	SUBS OD	FT.	DEPTH IN	3487
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	2.0
	Kelly Down	39.05 FT.	FT. REAMED	
	TOTAL	3507.00 FT.	FT. CORED	
WT OF STRING	6,000 LBS.		CUM. HRS. RUN	6¼
DRILLER	E Mill		CONDITION	IN
WEATHER CONDITIONS	-6°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3487	20		3507		160	10-20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	6½	56	7
PUMP No. 2	CIRC TANK	6½		8

DEVIATION RECORD: DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8³⁰		½	Finish Run in w/Bit # 24
8³⁰	9⁰⁰		½	Rig Service & Check B.O.P's
9⁰⁰	9⁴⁵		¾	Clean Out & Ream Under Gage Hole 10'
9⁴⁵	4⁰⁰	6	¼	Drilling 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	10
VISC.	78	80	82	82
W.L.-C.C.	6.6	6.6	6.4	7
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	15#		
Tannathin	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
34	STANDS DP	3091.73 FT.	Drilling or Core Bit No.	24
1	SNGLS. DP	31.25 FT.	TYPE	OWV
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY 6¼ OD	4.10 FT.	SERIAL No.	13421
	SUBS OD	FT.	DEPTH IN	3487
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	42
	Kelly Down	29.80 FT.	FT. REAMED	
	TOTAL	3529 FT.	FT. CORED	
WT OF STRING	66,000 LBS.		CUM. HRS. RUN	11¼
DRILLER	B. Nolan		CONDITION	IN
WEATHER CONDITIONS	-4 CLEAR			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3507	22		3529	Dolomite	160	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	57	5
PUMP No. 2				

DEVIATION RECORD: DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION | DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	Rig Serv Check BOP's
4¹⁵	7⁰⁰	2	¾	Pull 2 stands Install New WASH PIPE Packing in Swivel & Wash Pipe.
7⁰⁰	12⁰⁰	5		Drill 9" Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.	10	10
VISC.		86	82	85
W.L.-C.C.		6.2	6.	6.4
FLTR. CK.		2/32	2/32	2/32
pH		9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1000 lbs		
Caustic	25 lbs.		
Q-X	50 lbs.		

REPORT No. 43 DATE: Feb 3/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 1 4½ | TOOL JOINT TYPE THD. F.H. 5 3/4 OD | DRILL PIPE GRADE 2-2

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Carter

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214D
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5	6	589			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING		3	7¼
TRIPPING			
RIG MAINTENANCE	¼	½	1¼
RIG REPAIRS			1½
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	2¾		
SUB TOTAL	-		
DAYWORK HOURS	5	4½	
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.

NO. OF LINES 6 SIZE 1⅛

FEET SLIPPED

FEET CUT OFF

PRESENT LENGTH -

TON MI. or TRIPS SINCE LAST CUT 494

CUMULATIVE TON MI. or TRIPS 1029

NO. OF DAYS FROM SPUD 41

CUMULATIVE ROTATING HRS. 335¾

DAYS SINCE LAST ACCDNT. 71

DRILLER ACCDNT. FREE DAYS

MORNING TOUR 99

DAY TOUR 169

EVENING TOUR 341

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
32	STANDS DP	2911.33 FT.	Drilling or Core Bit No.	4-13	23
2	SNGLS. DP	60.83 FT.	TYPE	O	OWV
	OD	FT.	SIZE	6 1/8	9"
9	D.C. 6¼ OD	278.32 FT.	NOZZ. SIZE		11/16
	RMR BODY OD	FT.	SERIAL No.	4440	15387
	STB BODY OD	FT.	DEPTH IN	3319	3319
	SUBS OD	FT.	DEPTH OUT	3349	To
	BIT OR C.B.	59.87 FT.	FT. DRILLED		R
		FT.	FT. REAMED		&
	Kelly Down	39.15 FT.	FT. CORED	30	M.
	TOTAL	3349 FT.	CUM. HRS. RUN	9	
WT OF STRING	61000 LBS.		CONDITION	Good	
DRILLER	Haynes.				
WEATHER CONDITIONS	-12				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3345		4	3349		9	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	TRIP			
PUMP No. 2	750	6½	35	

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
12	115	1	¼	@ CORING #12.
10	230	1	¼	HOIST OUT W/CORE
230	330	1		RECOVER CORE SEE 331
330	345		¼	CLOCK CSO RIG SER.
345	600	2	¾	CLEAN SHAKER TANK.
630	9	1	½	TRIP IN PICK UP K D's & REAMER.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	TRIP		
VISC.	86			
W.L.-C.C.				
FLTR. CK.				
pH	9			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
32	STANDS DP	2910.72 FT.	Drilling or Core Bit No.	23	
2	SNGLS. DP	60.21 FT.	TYPE	OWV	
	OD	FT.	SIZE	9"	
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	15387	
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	3319	
	SUBS OD	FT.	DEPTH OUT		
	BIT OR C.B.	60 FT.	FT. DRILLED	30	
		FT.	FT. REAMED	30	4 HRS
	Kelly Down	31.85 FT.	FT. CORED		
	TOTAL	3379.00 FT.	CUM. HRS. RUN	3	
WT OF STRING	64,000 LBS.		CONDITION	IN	
DRILLER	E. Miel				
WEATHER CONDITIONS	Cool -10°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3319		30	3349		150	6-8
3349	30		3379		130	2528

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	6½	56	7
PUMP No. 2	BIRC TANKS	6½		8

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
800	830		½	FINISH RUN IN W/BIT #23
830	900		½	RIG SERVICE & CHECK B.O.P's
900	1000	4		REAMING 6⅛" TO 9" HOLE.
1000	400	3		DRILLING 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	10
VISC.	93	85	80	95
W.L.-C.C.	6	7.2	7.2	6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	10.00 #		
QX	100 #	Build Volume	
CAUSTIC	50 #		
DRISCOSE	25 #	Reg	

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
33	STANDS DP	3001.32 FT.	Drilling or Core Bit No.	23	
2	SNGLS. DP	61.03 FT.	TYPE	OWV	
	OD	FT.	SIZE	9"	
12	D.C. 6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	15387	
	STB BODY 6¼ OD	4.10 FT.	DEPTH IN	3319	
	SUBS OD	FT.	DEPTH OUT		
	BIT OR C.B.	60 FT.	FT. DRILLED	103	
		FT.	FT. REAMED	30	4 HRS
	Kelly Down	1343 FT.	FT. CORED		
	TOTAL	3452 FT.	CUM. HRS. RUN	10¼	
WT OF STRING	64,000 LBS.		CONDITION	IN	
DRILLER	B. Nolan				
WEATHER CONDITIONS	CLOUDY HGHT SNOW -10				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3379	73		3452		130	25/28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	6½	56	7¼
PUMP No. 2				

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
400	415		¼	RIG SERV CHECK BOP's
415	800	3	¾	DRILL 9" HOLE
800	830		½	TIGHTEN WASH PIPE PACKING.
830	1200	3	½	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th Hr.
WEIGHT	10.	10	10	10
VISC.	94	96	95	72
W.L.-C.C.	6.2	6.4	6.4	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.	9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 42 DATE: FEB 2/60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
OPERATOR'S REPRESENTATIVE: J. P. Burns.
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: Grandview Hills No. 1
PROVINCE: Alta.

RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 1 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: F-H
DRILL PIPE GRADE: 2-3
CONTRACTOR'S TOOL PUSHER: Wm Cooke

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8						

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6¾	3	
TRIPPING			
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS	1		
HOLE SURVEYS		¼	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	11½	13¼	
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	0
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	463
CUMULATIVE TON MI. or TRIPS	998
NO. OF DAYS FROM SPUD	40
CUMULATIVE ROTATING HRS.	325½
DAYS SINCE LAST ACCDNT.	70
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	98
DAY TOUR	168
EVENING TOUR	340

MORNING TOUR

DRILLING ASSEMBLY

NO.			
33	STANDS DP	3002.08	FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
9	6¼ OD	278.32	FT.
	RMR BODY 6¼ OD	4.10	FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	60	FT.
			FT.
	Kelly Down	22.90	FT.
	TOTAL	3308	FT.

WT OF STRING 59 M. LBS.
DRILLER E Paupe
WEATHER CONDITIONS 1-50

BIT RECORD

Drilling or Core Bit No.	22
TYPE	S6
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	261184
DEPTH IN	3240
DEPTH OUT	
FT. DRILLED	68
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	12
CONDITION	Rund

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3273	35		3308		150	15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	6½	7 50	54	
PUMP No. 2	CIR TANK	6½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	12 15	¼	Rig Svc Bop Check.
12 15	4 30	4 ¼	Drlg 9" Hole.
4 30	5 30	1	Replace Goosneck Packing
5 30	8	2 ½	Drlg 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	10	10	10	10
VISC.	41	50	82	80
W.L.-C.C.	6.4	6.4	6.8	7.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9.5	9.5	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1000 #		
Caustic	15 #		
Tannathin	50 #		

DAY TOUR

DRILLING ASSEMBLY

NO.			
33	STANDS DP	3002.08	FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
7	6¼ OD	278.32	FT.
	RMR BODY OD		FT.
	STB BODY 6¼ OD	4.10	FT.
	SUBS OD		FT.
	BIT OR C.B.	60	FT.
			FT.
	Kelly Down	33.90	FT.
	TOTAL	3319.00	FT.

WT OF STRING 59,000 LBS.
DRILLER E Mill
WEATHER CONDITIONS Cool. - 12°

BIT RECORD

Drilling or Core Bit No.	22
TYPE	S6
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	261184
DEPTH IN	3240
DEPTH OUT	3319
FT. DRILLED	79
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	15
CONDITION	Dull

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3308	11		3319		150	15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	6½	54	3¾
PUMP No. 2	CIRC TANK	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3315	1¼°							

From	To	Elapsed Time	REMARKS
8 00	8 15	¼	Rig Service + Check BOP's
8 15	11 15	3 ¼	Drilling 9" Hole
11 15	12 00	¾	Circ Sample & Clean Hole To Core
12 00	12 15	¼	Survey
12 15	3 45	3 ½	Trip for Core BBL
3 45	4 00	¼	Circ Core BBL & Clean Out To Bottom.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10		
VISC.	82	90		
W.L.-C.C.	6.6	6.8		
FLTR. CK.	2/32	2/32		
pH	9	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

RIG

EVENING TOUR

DRILLING ASSEMBLY

NO.			
32	STANDS DP	2911.33	FT.
2	SNGLS. DP	60.83	FT.
	D.C. OD		FT.
9	6¼ OD	278.32	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	59.37	FT.
			FT.
	Kelly Down	35.15	FT.
	TOTAL	3345	FT.

WT OF STRING 61,000 LBS.
DRILLER R Phelan
WEATHER CONDITIONS Clear - 15°

BIT RECORD

Drilling or Core Bit No.	4-13
TYPE	◇
SIZE	6 1/8
NOZZ. SIZE	
SERIAL No.	44440
DEPTH IN	3319
DEPTH OUT	
FT. DRILLED	
FT. REAMED	
FT. CORED	26
CUM. HRS. RUN	7 3/4
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3319		26	3345		90	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	750 800	6½	35	7¼

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4 00	4 15	¼	Rig Serv.
4 15	12 00	7 ¾	Cutting Core #13

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	10
VISC.	90	86	87	85
W.L.-C.C.	6.6	7.	6.8	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 40

DATE: FEB 1/60

DAILY DRILLING REPORT

OPERATOR: Banfield Oil Corp
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
OPERATOR'S REPRESENTATIVE: J. R. Bisaro
CONTRACTOR'S TOOL PUSHER: Doug Lanbon
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRAND VIEW HILLS No. 1
PROVINCE: N.W.T.
DRILL PIPE STRING NO. SIZE
TOOL JOINT: 5 3/4 OD
TYPE THD.: F.H.
DRILL PIPE GRADE: E-3

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8		0	587	NEAT	600 SKS	2% CaCl2 mix

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7 1/2	5 3/4	5 1/4
TRIPPING		3/4	1 3/4
RIG MAINTENANCE	1/2	1/2	1/4
RIG REPAIRS		1/2	
HOLE SURVEYS		1/4	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			1/4
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		1/4	
SUB TOTAL			
DAYWORK HOURS			1 1/2
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES 6 SIZE 1 1/8
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. of TRIPS SINCE LAST CUT 425
CUMULATIVE TON MI. of TRIPS 960

NO. OF DAYS FROM SPUD 39
CUMULATIVE ROTATING HRS. 308
DAYS SINCE LAST ACCDNT. 70
DRILLER ACCDNT. FREE DAYS
MORNING TOUR 97
DAY TOUR 167
EVENING TOUR 339

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
33	STANDS DP	3002.08 FT.	Drilling or Core Bit No	21
	SNGLS. DP	FT.	TYPE	OWV
6	D.C. OD 6 1/4 OD	182.26 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	15285
	SUBS OD	FT.	DEPTH IN	3140
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	51
	Kelly Down	27.06 FT.	FT. REAMED	24 5 hrs
	TOTAL	3215 FT.	FT. CORED	
WT OF STRING		54,000 LBS.	CUM. HRS. RUN	9
DRILLER	E. Wayne.		CONDITION	Rud.
WEATHER CONDITIONS	-48°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3181	34		3215		150	12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	6 1/2	58	7 1/2
PUMP No. 2	CLAY TANK	6 1/2		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	12 30	1/2	Rig Serv & BOP Check
12 30	8	7 1/2	Drlg 9" Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	9.9	10
VISC.	76	96	44	80
W.L.-C.C.	6.6	66	6.8	6.9
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9.5	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1300#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
33	STANDS DP	3002.08 FT.	Drilling or Core Bit No.	21
1	SNGLS. DP	30.96 FT.	TYPE	OWV
	D.C. OD	FT.	SIZE	9"
6	6 1/4 OD	125.26 FT.	NOZZ. SIZE	11/16
	RMR BODY 6 OD	FT.	SERIAL No.	15285
	STB BODY OD	FT.	DEPTH IN	3140
	SUBS OD	FT.	DEPTH OUT	3240
	BIT OR C.B.	.60 FT.	FT. DRILLED	76
		FT.	FT. REAMED	24 5 hrs
	Kelly Down	26.10 FT.	FT. CORED	
	TOTAL	3245.00 FT.	CUM. HRS. RUN	14 3/4
WT OF STRING		54,000 LBS.	CONDITION	Wear
DRILLER	E. Mill			
WEATHER CONDITIONS	Cool - 14			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3215	25		3240		150	12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	6 1/2	56	6
PUMP No. 2	CLAY TANKS	6 1/2		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3240	2°							

From	To	Elapsed Time	REMARKS
8:00	8:30	1/2	Rig Service & Check B.O.P.'s
8:30	9:00	1/2	Replace Grease Fitting in Dwks.
9:00	2:45	5 3/4	Drilling 9" Hole.
2:45	3:00	1/4	Circ to Clean Hole
3:00	3:15	1/4	Survey
3:15	4:00	3/4	Pull Out w/Bit

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	
VISC.	80	77	75	
W.L.-C.C.	7	7	6.6	
FLTR. CK.	2/32	2/32	2/32	
pH	9	9	9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	15#		
Ironthin	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
33	STANDS DP	3001133 FT.	Drilling or Core Bit No	22
2	SNGLS. DP	61.83 FT.	TYPE	S6
9	D.C. OD	FT.	SIZE	9"
	6 1/4 OD	278.32 FT.	NOZZ. SIZE	11/16
	RMR BODY 6 1/4 OD	4.10 FT.	SERIAL No.	361184
	STB BODY 6 1/4 OD	FT.	DEPTH IN	3240
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	33
		FT.	FT. REAMED	
	Kelly Down	16.92 FT.	FT. CORED	
	TOTAL	3273 FT.	CUM. HRS. RUN	5 1/4
WT OF STRING		59,000 LBS.	CONDITION	IN
DRILLER	Ed Hoeam.			
WEATHER CONDITIONS	-20° CLEAR			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3240	33		3273		130	15/18
					120	

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	6 1/2	57	5 1/2
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	4:15	1/4	Rig Serv. Check BOP's
4:15	4:45	1/2	Finish out w/ Bit #21
4:45	5:15	1/2	Install Reamer — ream Stabilizer 60' above bit
5:15	6:30	1 1/4	Run in w/ Bit #22
6:30	6:45	1/4	Clean 5' To Bottom.
6:45	12:00	5 1/4	Drill 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.		10	10
VISC.	73		75	76
W.L.-C.C.	6.4		6.2	6.
FLTR. CK.	2/32		2/32	2/32
pH	9.		9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 40

DATE: JAN 31/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS # 1
No.: 1
PROVINCE: NWT
DRILL PIPE STRING NO. SIZE: 4 1/2
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. R. Brown.
CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	13/4		2 1/2
TRIPPING			
RIG MAINTENANCE	1/4		1/4
RIG REPAIRS			
HOLE SURVEYS	1/4		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	5 3/4	8	5 1/4
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 1
NO. OF LINES 6 SIZE 1 1/8
FEET SLIPPED 78
FEET CUT OFF 80
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT 387
CUMULATIVE TON MI. or TRIPS 922

NO. OF DAYS FROM SPUD 38
CUMULATIVE ROTATING HRS. 290
DAYS SINCE LAST ACCDNT. 69
DRILLER ACCDNT. FREE DAYS

MORNING TOUR	338
DAY TOUR	916
EVENING TOUR	166

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
31	STANDS DP	2818.34 FT.	Drilling or Core Bit No.	20B	442
2	SNGLS. DP	61.71 FT.	TYPE	S 6	O
6	D.C. OD 6 1/4 OD	185.26 FT.	SIZE	9"	6 1/8
	RMR BODY OD	FT.	NOZZ. SIZE	11/16	
	STB BODY OD	FT.	SERIAL No.	35 2521	4440
	SUBS OD	FT.	DEPTH IN	3070	3140
	BIT OR C.B.	59.37 FT.	DEPTH OUT	3140	
		FT.	FT. DRILLED	70	
	Kelly Down	19.32 FT.	FT. REAMED		
	TOTAL	3144 FT.	FT. CORED		4
WT OF STRING		53,000 LBS.	CUM. HRS. RUN	18 3/4	1 1/2
DRILLER			CONDITION	Dull	IN.
WEATHER CONDITIONS		- 35°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
3126	14		3140		120	15	PUMP No. 1	700	6 1/2	57	1 3/4
3140		4	3144		90	5 1/2 8	PUMP No. 1	750	6 1/2	35	2

DEVIATION RECORD: DEPTH 3140 DEV. 20 DIRECTION

From	To	Elapsed Time		REMARKS
12:00	12:15		1/4	RIG SERV.
12:15	2:00	1	3/4	DRILL 9" HOLE
2:00	3:00	1		CIRC SAMPLE & CIRC HOLE CLEAN
3:00	3:15		1/4	SURVEY
3:15	6:00	2	3/4	TRIP FOR CORE BBL
6:00	6:30		1/2	CIRC CORE BBL
6:30	8:00	1	1/2	CUTTING CORE # 12

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	10		10.
VISC.	78	75		84
W.L.-C.C.	6.8	6.6		5.4
FLTR. CK.	2/32	2/32		2/32
pH	9.5	9.		9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
32	STANDS DP	2911.33 FT.	Drilling or Core Bit No.	4-12	21
1	SNGLS. DP	30.51 FT.	TYPE	KIEBEL O	OWV
6	D.C. OD 6 1/4 OD	185.26 FT.	SIZE	6 1/8	9
	RMR BODY OD	FT.	NOZZ. SIZE		7/16
	STB BODY OD	FT.	SERIAL No.	4440	15285
	SUBS OD	FT.	DEPTH IN	3140	3140
	BIT OR C.B.	6.0 FT.	DEPTH OUT	3164	
		FT.	FT. DRILLED		
	Kelly Down	12. FT.	FT. REAMED		
	TOTAL	3140 FT.	FT. CORED	24	
WT OF STRING		52,000 LBS.	CUM. HRS. RUN	6 1/2	
DRILLER			CONDITION	Good	
WEATHER CONDITIONS					

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
3144		20	3164		90	8	PUMP No. 1	750	6 1/2	35	
							PUMP No. 2				

DEVIATION RECORD: DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
8	1	5		CORING # 12.
1	2:15	1	1/4	TRIP OUT W/CORE
2:15	3		3/4	RECOVER CORE SCRBBL
3	4	1		RUNN W/B.T NO 21.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10		
VISC.	78	80		
W.L.-C.C.	6.2	6.2		
FLTR. CK.	2/32	2/32		
pH	9	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
32	STANDS DP	2911.33 FT.	Drilling or Core Bit No.	21	
2	SNGLS. DP	60.83 FT.	TYPE	OWV	
6	D.C. OD 6 1/4 OD	185.26 FT.	SIZE	9	
	RMR BODY OD	FT.	NOZZ. SIZE	11/16	
	STB BODY OD	FT.	SERIAL No.	16285	
	SUBS OD	FT.	DEPTH IN	3140	
	BIT OR C.B.	16.0 FT.	DEPTH OUT		
		FT.	FT. DRILLED	17	
	Kelly Down	22.98 FT.	FT. REAMED	24 5H 35	
	TOTAL	3181.00 FT.	FT. CORED		
WT OF STRING		54000 LBS.	CUM. HRS. RUN	2 1/2	
DRILLER		E. Mill	CONDITION	IN	
WEATHER CONDITIONS		Cool - 25			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
3140		24	3164		150	6 8	PUMP No. 1	700	6 1/2	57	2 1/2
3164	17		3181		150	12	PUMP No. 2	775	6 1/2	60	5 1/4

DEVIATION RECORD: DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
4:00	4:15		1/4	BREAK CIRC & CLEAN OUT TO TOP OF RAT HOLE
4:15	4:30		1/4	RIG SERVICE & CHECK B.O.P's.
4:30	6:30	5		REAMING 6 1/8" TO 9" HOLE
6:30	12:00	2	1/2	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	10
VISC.	80	80	77	76
W.L.-C.C.	9.5	9.5	6.6	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	6	5.8	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500 #		

REPORT No. 39
DATE: JAN 30 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT ~~4½~~ OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
LOCATION: L.SD. SEC. TWP. RGE. W.
WELL NAME: R O CORP GRANDVIEW HILLS No. 1
PROVINCE: N W T
OPERATOR'S REPRESENTATIVE: J. P. Brown
CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	1	7½	7¾
TRIPPING	1½		
RIG MAINTENANCE		½	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	1¼		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	5¼		
TOTAL HOURS	8	8	8

NO.	DRILLING ASSEMBLY		BIT RECORD	
31	STANDS DP	2818.34 FT.	Drilling or Core Bit No.	20B
1	SNGLS. DP	31.11 FT.	TYPE	S6
6	D.C. OD 6¼ OD	185.26 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	352521
	SUBS OD	FT.	DEPTH IN	3070
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	4
	Kelly Down	38.64 FT.	FT. REAMED	
	TOTAL	3074 FT.	FT. CORED	
WT OF STRING		58,000 LBS.	CUM. HRS. RUN	1
DRILLER	P. Holan		CONDITION	IN
WEATHER CONDITIONS	CLEAR -36°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3070	4		3074		120	14

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	6½	57	1
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	12¹⁵	¼	INITIAL SHUT IN
12¹⁵	12⁴⁵	½	TOOL OPEN. FINAL SHUT IN 12⁴⁵-1¹⁵ ½
1¹⁵	3¹⁵	2	PULL OUT W/ PACKER
3¹⁵	5¹⁵	2	BRAKE DOWN TOOL
5¹⁵	6⁴⁵	1½	RUN IN W/ BIT # 20B.
6⁴⁵	7⁰⁰	¼	BRAKE CIRC. CLEAN 15' TO BOTM.
7⁰⁰	8⁰⁰	1	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
31	STANDS DP	2818.34 FT.	Drilling or Core Bit No.	20B
2	SNGLS. DP	61.72 FT.	TYPE	S6
6	D.C. OD 6¼ OD	185.26 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	352521
	SUBS OD	FT.	DEPTH IN	3070
	BIT OR C.B.	60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	24
	Kelly Down	28.05 FT.	FT. REAMED	
	TOTAL	3094 FT.	FT. CORED	
WT OF STRING		51,000 LBS.	CUM. HRS. RUN	8½
DRILLER	E. Rayne		CONDITION	Dull
WEATHER CONDITIONS	-25			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3074	20		3094		120	5-15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	6½	56	
PUMP No. 2	CIR TANK	6½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8	8³⁰	½	RIG SERV & BOP CHECK / DST #3 3000' to 3070' ½" Bean, set bottom packer @ 3000' w/ 70' Tail pipe incl 26' perfs (2) Pressure bombs (inside & outside) + on 30' 4½ F.H. 16.6# singles V.O @ 11.44 am Jan 28 for 34 min. Initial shut in Open 30 min on flow C.I.P. Good air blow throughout test. Shut in 34 min Pulled loose @ 1.26 am, rec 670' muddy black sulphurous salt water 20,000 PPM Cl
8³⁰	4	7½	DRLG 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	65	72	78	80
W.L.-C.C.	5.6	6.2	6.4	7
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1000#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
32	STANDS DP	2911.33 FT.	Drilling or Core Bit No.	20B
	SNGLS. DP	FT.	TYPE	S6
6	D.C. OD 6¼ OD	185.26 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	352521
	SUBS OD	FT.	DEPTH IN	3070
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	56
	Kelly Down	28.81 FT.	FT. REAMED	
	TOTAL	3126.00 FT.	FT. CORED	
WT OF STRING		51,000 LBS.	CUM. HRS. RUN	16¼
DRILLER	E. Mill		CONDITION	IN
WEATHER CONDITIONS	Cold -25°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3094	32		3126		120	15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	6½	56	8
PUMP No. 2	CIRC TANKS	6½	50	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	¼	RIG SERVICE & CHECK B.O.P's
4¹⁵	12⁰⁰	7¾	DRILLING 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	82	80	78	75
W.L.-C.C.	6.8	6.6	6.8	7
FLTR. CK.	2/32	2/32	2/32	2/32
pH	8.5	9	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
CAUSTIC	15#		
TANNATHIN	50#		

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	78
FEET CUT OFF	80
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	329
CUMULATIVE TON MI. or TRIPS	564

NO. OF DAYS FROM SPUD	37
CUMULATIVE ROTATING HRS.	280 3/4
DAYS SINCE LAST ACCDNT.	68
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	337
DAY TOUR	95
EVENING TOUR	165

REPORT No. 38

DATE: JAN 29 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1
PROVINCE: NWT
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Paul Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	T 3/4	3 3/4	1/4
TRIPPING		3	
RIG MAINTENANCE	1/4	3/4	1/4
RIG REPAIRS			
HOLE SURVEYS		1/4	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom		1/4	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			T 1/2
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	78
FEET CUT OFF	80
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	300
CUMULATIVE TON MI. or TRIPS	835
NO. OF DAYS FROM SPUD	36
CUMULATIVE ROTATING HRS.	264 1/2
DAYS SINCE LAST ACCDNT.	67
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	336
DAY TOUR	94
EVENING TOUR	164

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
31	STANDS DP	2818.34 FT.	Drilling or Core Bit No.	19
1	SNGLS. DP	31.11 FT.	TYPE	S6
6	D.C. OD 6 1/4 OD	185.26 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	361185
	SUBS OD	FT.	DEPTH IN	2984
	BIT OR C.B.	.60 FT.	DEPTH OUT	
		FT.	FT. DRILLED	65
	Kelly Down	13.69 FT.	FT. REAMED	
	TOTAL	3049 FT.	FT. CORED	
WT OF STRING	53,000 LBS.		CUM. HRS. RUN	15½
DRILLER	H. Holan		CONDITION	IN
WEATHER CONDITIONS	CLEAR - 50°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3015	34		3049		150	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	6½	57	7 3/4
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
1200	1215	1/4	RIG SERV CHECK BOP'S
1215	800	7 3/4	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10	10	9.9
VISC.	75	77	88	90
W.L.-C.C.	6.2	6.	5.8	5.2
FLTR. CK.	3/32	3"	3"	3"
pH	9.5	9.	9	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1400 lbs.		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
31	STANDS DP	2818.34 FT.	Drilling or Core Bit No.	19	20
1	SNGLS. DP	31.11 FT.	TYPE	S6	S6
6	D.C. OD OD	185.26 FT.	SIZE	9"	9"
	RMR BODY OD	FT.	NOZZ SIZE	11/16	11/16
	STB BODY OD	FT.	SERIAL No.	361185	352521
	SUBS OD	FT.	DEPTH IN	2984	3053
	BIT OR C.B.	.60 FT.	DEPTH OUT	3053	
		FT.	FT. DRILLED	69	15
	Kelly Down	32.69 FT.	FT. REAMED		
	TOTAL	3068 FT.	FT. CORED		
WT OF STRING	60 M. LBS.		CUM. HRS. RUN	16½	23/4
DRILLER	R. Rayner		CONDITION	Dull	
WEATHER CONDITIONS	-52	-45 4PM			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3049	19		3068		140	8.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	6½	56	
PUMP No. 2	CIR. TANK	6½	40	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
3050	2°							

From	To	Elapsed Time	REMARKS
8	9	1	DRLG 9" HOLE
9	9:15	1/4	RIG SER & BOP CHECK
9:15	9:30	1/4	SURVEY
9:30	11	1 1/2	PULL OUT.
11	11:30	1/2	SLIP DLINE 26'
11:30	1	1 1/2	RUN IN W/BIT #20
1	1:15	1/4	BREAK CIRC. CLEAN
1:15	4	2 3/4	DRLG 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	TRIP		10	10
VISC.	ε		78	76
W.L.-C.C.	CIR		5.6	5.6.
FLTR. CK.	1 HR			2/32
pH			9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
31	STANDS DP	2818.34 FT.	Drilling or Core Bit No.	20
1	SNGLS. DP	31.11 FT.	TYPE	S6
6	D.C. OD 6 1/4 OD	185.26 FT.	SIZE	9"
	RMR BODY OD	FT.	NOZZ. SIZE	11/16
	STB BODY OD	FT.	SERIAL No.	352521
	SUBS OD	FT.	DEPTH IN	3053
	BIT OR C.B.	.60 FT.	DEPTH OUT	3070
		FT.	FT. DRILLED	17
	Kelly Down	34.69 FT.	FT. REAMED	
	TOTAL	3070.00 FT.	FT. CORED	
WT OF STRING	60,000 LBS.		CUM. HRS. RUN	3 6000
DRILLER	E. Mill		CONDITION	PULLED TO TEST
WEATHER CONDITIONS	Cold - 42			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
3068	2		3070		140	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	6½	56	1 3/4
PUMP No. 2	CIRC TANKS	6½	40	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
400	415	1/4	DRILLING 9" HOLE.
415	445	1/2	RIG SAMPLE @ 3070'
445	500	1/4	RIG SERVICE & CHECK B.O.P'S
500	600		CIRC PRIOR TO TEST
600	745	1 3/4	PULLOUT TO RUN PACKER
745	945	2	PICK UP PACKER & MAKEUP SAME
945	1145	1 1/2	RUN IN W/PACKER. 1145-1200 INITIAL SHUT IN
1145	1145	1/2	INSTAL HEAD

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

RIG

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 37

DATE: JAN 28 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER:
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP. GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3	1	7 3/4
TRIPPING		3	
RIG MAINTENANCE	1/4	1/2	1/4
RIG REPAIRS			
HOLE SURVEYS		1/4	
CONDITIONING MUD			
CONDITIONING HOLE		1/2	
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	3/4	23/4	
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 1
NO. OF LINES 6 SIZE 1 1/8
FEET SLIPPED 52
FEET CUT OFF 80
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT 242
CUMULATIVE TON MI. or TRIPS 777

NO. OF DAYS FROM SPUD 35
CUMULATIVE ROTATING HRS. 252 3/4
DAYS SINCE LAST ACCDNT. 66
DRILLER ACCDNT. FREE DAYS
MORNING TOUR 335
DAY TOUR
EVENING TOUR 163

MORNING TOUR

NO.	DRILLING ASSEMBLY		
30	STANDS DP	2726.9	FT.
1	SNGLS. DP	31.64	FT.
6	D.C. OD 6 1/4 OD	185.26	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	15.54	FT.
	TOTAL	2960	FT.
WT OF STRING		52,000	LBS.
DRILLER	H Pelton		
WEATHER CONDITIONS	CLEAR -50°		

BIT RECORD

Drilling or Core Bit No.	4-11	18B
TYPE	KOEBEL 050	
SIZE	6 1/8	9"
NOZZ. SIZE		11/16
SERIAL No.	44440	93835
DEPTH IN	2947	2977
DEPTH OUT	2981	
FT. DRILLED		
FT. REAMED		13
FT. CORED	34	
CUM. HRS. RUN	11 1/4	2 1/4
CONDITION	GOOD	IN.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2977		4	2981	CORE #11	90	8
2947		13	2960	CORED 34' REC. 34'	150	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	C	RC	TANKS	
PUMP No. 2	750 775	6½	35 60	1¼ 2¼

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
1200	115	1	1/4	CUTTING CORE #11
115	245	1	1/2	PULL OUT W/ CORE BBL
245	300		1/4	RIG SERV.
300	445	1	1/4	RECOVER CORE SERVICE BBL STAND BACK SAME
445	545	1	1/2	RUN IN W/ BIT # 18B
545	800	2	1/4	REAM 6 1/8 TO 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.			10.
VISC.	76			75
W.L.-C.C.				5.4
FLTR. CK.				2/32
pH				9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		
30	STANDS DP	2726.9	FT.
	SNGLS. DP	31.64	FT.
	D.C. OD		FT.
	OD	185.26	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	39.59	FT.
	TOTAL	2984	FT.
WT OF STRING		52,000	LBS.
DRILLER	G Clapp		
WEATHER CONDITIONS	Day cold -52°		

BIT RECORD

Drilling or Core Bit No.	18B	19
TYPE	OSC	S6
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	93835	361185
DEPTH IN	2947	2984
DEPTH OUT	2984	
FT. DRILLED	37	
FT. REAMED	34	
FT. CORED		
CUM. HRS. RUN	16	
CONDITION	DULL	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2960	24	24	2984		140	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1		6½		
PUMP No. 2	775	6½	60	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2984	2°							

From	To	Elapsed Time		REMARKS
8	830		1/2	RIG SERV & BOP CHECK
830	1215	3	3/4	REAMING 6 1/8 TO 9" DRILL HTR.
1215	1245		1/2	CIRC HOLE
1245	100		1/4	SURVEY
1	4	3	?	TRIP FOR BIT CHANGE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.+	10	+
VISC.	75	74		
W.L.-C.C.	+			
FLTR. CK.	2/32			
pH	9.5	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1000#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
31	STANDS DP	2818.34	FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
6	6¼ OD	185.26	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	10.80	FT.
	TOTAL	3015.00	FT.
WT OF STRING		53,000	LBS.
DRILLER	E. Mill		
WEATHER CONDITIONS	Cold -50°		

BIT RECORD

Drilling or Core Bit No.	19
TYPE	S6
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	361185
DEPTH IN	2984
DEPTH OUT	
FT. DRILLED	31
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	7 3/4
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2984	31		3015		150	8-10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	6½	55	7¾
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
400	415		1/4	Rig Service & Check B.O.P's
415	1200	7	3/4	Drilling 9" Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.0	10.	10	10
VISC.	90	85	77	75
W.L.-C.C.	6.2	6.2	6.6	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	15#		
Gypsum	50#		

REPORT No. 36

DATE: JAN 27 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION: LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD; TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. R. Brown.
CONTRACTOR'S TOOL PUSHER:

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7 3/4	1	
TRIPPING			
RIG MAINTENANCE	1/4		
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		4	
SUB TOTAL			
DAYWORK HOURS		7	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1/8
FEET SLIPPED	52
FEET CUT OFF	80
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	184
CUMULATIVE TON MI. or TRIPS	719
NO. OF DAYS FROM SPUD	34
CUMULATIVE ROTATING HRS.	239
DAYS SINCE LAST ACCDNT.	65
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	334
DAY TOUR	90
EVENING TOUR	162

MORNING TOUR

NO.	DRILLING ASSEMBLY		
29	STANDS DP	2726.91	FT.
	SNGLS. DP		FT.
6	D.C. OD 6 1/4 OD	185.26	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	28 13	FT.
	TOTAL	2941.00	FT.
WT OF STRING		50,000	LBS.

DRILLER: A. Holan
WEATHER CONDITIONS: -22 CLEAR

BIT RECORD

Drilling or Core Bit No.	18	
TYPE	OSC	
SIZE	9"	
NOZZ. SIZE	11/16	
SERIAL No.	93835	
DEPTH IN	2902	
DEPTH OUT		
FT. DRILLED	39	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	8	
CONDITION	IN	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2903	38		2941	LIMESTONE	140	5 & 10
				DOLOMITE.		

	PUMP	PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1		800	7 1/4	51	7 3/4
PUMP No. 2					

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12 00	12 15	1/4	RIG SERV CHECK BOP'S
12 15	8 00	7 3/4	DRILL 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.	10.	10.	10
VISC.	68	75	76	75
W.L.-C.C.	5.8	6.	5.6	6.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	8.	8.5	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1 000 lbs		
CAUSTIC	50 lbs.		
TANNATHIN	50 lbs.		

DAY TOUR

NO.	DRILLING ASSEMBLY		
29	STANDS DP	2635.83	FT.
	SNGLS. DP	61.87	FT.
6	D.C. OD	185.26	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	59.37	FT.
			FT.
	Kelly Down	96.7	FT.
	TOTAL	2951	FT.
WT OF STRING		54,000	LBS.

DRILLER: A. Hayne
WEATHER CONDITIONS: -38°

BIT RECORD

Drilling or Core Bit No.	18	4-11
TYPE	OSC	Reed's
SIZE	9"	6 1/8
NOZZ. SIZE	11/16	
SERIAL No.	93835	4440
DEPTH IN	2902	2947
DEPTH OUT	2947	2
FT. DRILLED	45	
FT. REAMED		
FT. CORED		4
CUM. HRS. RUN	9	2
CONDITION	Drill Run.	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2941	6		2947		140	10
2947		4	2951		90	6

	PUMP	PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1		800	7 1/4	50	
PUMP No. 2		700	6 1/2	34	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2947	2°							

From	To	Elapsed Time	REMARKS
8	9	1	DRLG 9" HOLE
9	9 45	3/4	CIRC SAMP & HOLE
9 45	10	1/4	SURVEY
10	11 15	1 1/4	HOIST OUT TO CORE DRMEAS. .18 DEEP.
11 15	11 30	1/4	PICKUP CORE BBL
11 30	11 45	1/4	CHECK BOP.
11 45	1 15	1 1/2	RUN IN W/CORE BBL. 2-4 CUTTING CORE # 11.
1 15	8	3/4	CIRC & SEAT CORE BIT

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	T	9.9	9.9
VISC.	84	R	71	76
W.L.-C.C.	6.4	I		6.4
FLTR. CK.	2/32	P		2/32
pH	9.5		9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
29	STANDS DP	2635.83	FT.
2	SNGLS. DP	61.87	FT.
6	D.C. OD 6 1/4 OD	185.26	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	59.37	FT.
			FT.
	Kelly Down	34.67	FT.
	TOTAL	2977.00	FT.
WT OF STRING		54,000	LBS.

DRILLER: B. Mill
WEATHER CONDITIONS: Cold - 46 Blowing

BIT RECORD

Drilling or Core Bit No.	4-11	
TYPE	Reed's	
SIZE	6 1/8	
NOZZ. SIZE		
SERIAL No.	4440	
DEPTH IN	2947	
DEPTH OUT		
FT. DRILLED		
FT. REAMED		
FT. CORED	30	
CUM. HRS. RUN	10	
CONDITION	IN	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2951		26	2977		90	6-8

	PUMP	PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	SIRC! TANKS		6 1/2		2
PUMP No. 2	750		6 1/2	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4 00	12 00	8	CUTTING & CORE # 11
			Core # 11 - 2947 - 2982 = 35'

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.9	9.9	9.9
VISC.	86	75	75	75
W.L.-C.C.	6.4	6.4	6.6	7.0
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	9	9	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 35.

DATE: JAN 26. 1960

DAILY DRILLING REPORT

CONTRACTOR: SHEILD OIL CORP

LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: T.R.O. CORP GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE | TOOL JOINT 5 3/4 OD | TYPE THD. F.H. | DRILL PIPE GRADE 2-3

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	11	11
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Mark Parker

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	5 1/4	7 1/2	4
TRIPPING	1/2		3 1/4
RIG MAINTENANCE	1/4	1/2	1/4
RIG REPAIRS			
HOLE SURVEYS			1/4
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom	2		1/4
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			1/4
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES	6 SIZE 1 1/4
FEET SLIPPED	
FEET CUT OFF	52
PRESENT LENGTH	80
TON MI. or TRIPS SINCE LAST CUT	155
CUMULATIVE TON MI. or TRIPS	690
NO. OF DAYS FROM SPUD	33
CUMULATIVE ROTATING HRS.	230 1/4
DAYS SINCE LAST ACCDNT.	64
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	333
DAY TOUR	89
EVENING TOUR	161

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
29	STANDS DP	2634.14 FT.	Drilling or Core Bit No.	17
	SNGLS. DP	FT.	TYPE	M4N
6	D.C. OD	FT.	SIZE	9"
	D.C. 6 1/4 OD	185.36 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	363677
	STB BODY OD	FT.	DEPTH IN	2832
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	24
		FT.	FT. REAMED	
	Kelly Down	35.90 FT.	FT. CORED	
	TOTAL	2856 FT.	CUM. HRS. RUN	5 1/4
WT OF STRING		47,000 LBS.	CONDITION	IN

DRILLER: B. Nolan

WEATHER CONDITIONS: Clear - 26°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2832	24		2856	LIMESTONE DOLOMITE	130	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	7 1/4	52	7 1/4
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	12:30	1/2	FINISH IN W/ BIT #17
12:30	12:45	1/4	RIG SERV
12:45	2:45	2	REAM & CLEAN 230' TO BOTTOM
2:45	8:00	5 1/4	DRILL 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.8		9.9	9.9
VISC.	65		68	78
W.L.-C.C.	5.8		6.	5.6
FLTR. CK.	2/32		2/32	2/32
pH	8.		8.	8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	2,000 lbs		
CAUSTIC	50 lbs		
Q-X	50 lbs		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
29	STANDS DP	2634.14 FT.	Drilling or Core Bit No.	17
1	SNGLS. DP	30.90 FT.	TYPE	M4N
	D.C. OD	FT.	SIZE	9"
	D.C. OD	185.36 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	363677
	STB BODY OD	FT.	DEPTH IN	2832
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	58
		FT.	FT. REAMED	
	Kelly Down	39 FT.	FT. CORED	
	TOTAL	2890. FT.	CUM. HRS. RUN	12 3/4
WT OF STRING		49M - LBS.	CONDITION	IN

DRILLER: L. Magne

WEATHER CONDITIONS: -150

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2856	34		2890	LIMESTONE & DOLOMITE	140	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	800	7 1/2	50	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8	8:30	1/2	RIG SERV & BOP CHECK
8:30	4	7 1/2	DRLG 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	9.9	9.9	9.9
VISC.	77	84	76	74
W.L.-C.C.	5.6	6.4	5.6	6.2
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9	8.5	8.5	8
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
29	STANDS DP	2634.14 FT.	Drilling or Core Bit No.	17	18
2	SNGLS. DP	61.21 FT.	TYPE	M4N	OSC
	D.C. OD	FT.	SIZE	9"	9"
6	6 1/4 OD	185.36 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	363677	93835
	STB BODY OD	FT.	DEPTH IN	2832	2902
	SUBS OD	FT.	DEPTH OUT	2902	
	BIT OR C.B.	.60 FT.	FT. DRILLED	70	1
		FT.	FT. REAMED		
	Kelly Down	21.69 FT.	FT. CORED		
	TOTAL	2903.00 FT.	CUM. HRS. RUN	16 1/2	1/4
WT OF STRING		51,000 LBS.	CONDITION	FAIR	IN

DRILLER: L. Mill

WEATHER CONDITIONS: Cool: -20

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2890	13		2903		140	5

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7 1/4	50	1/4
PUMP No. 2	725	6 1/2		3 1/4

DEVIATION RECORD: 2900 2 1/4

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	4:15	1/4	RIG SERVICE & CHECK B.O.P.'S
4:15	8:00	3 3/4	DRILLING 9" HOLE.
8:00	8:15	1/4	SURVEY.
8:15	10:00	1 3/4	PULL OUT W/BIT.
10:00	11:30	1 1/2	RUN IN W/BIT
11:30	11:45	1/4	BREAK CIRC & CLEAN OUT TO BOTTOM.
11:45	12:00	1/4	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10	10		
VISC.	74	72		78
W.L.-C.C.	6.4	6.2		18
FLTR. CK.	3/32	3/32		11
pH	8	8		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

Engineer, Territories & Yukon Territory

REPORT No. 34 DATE: JAN 25 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: NWT
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. P. Brown.
CONTRACTOR'S TOOL PUSHER: Dave Carlson

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13 3/8	52	0	598	CONST	600 SX	2% CACL
	H 52					

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6	7¾	4
TRIPPING			6½
RIG MAINTENANCE	1¼	½	
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			1½
SUB TOTAL			
DAYWORK HOURS	13¼		
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	52
FEET CUT OFF	80
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	128
CUMULATIVE TON MI. or TRIPS	663
NO. OF DAYS FROM SPUD	32
CUMULATIVE ROTATING HRS.	217½
DAYS SINCE LAST ACCDNT.	63
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	332
DAY TOUR	33
EVENING TOUR	160

MORNING TOUR

NO.	DRILLING ASSEMBLY		
27	STANDS DP	2454.49	FT.
1	SNGLS. DP	30.10	FT.
9	D.C. OD	278.42	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	13.39	FT.
	TOTAL	2777.	FT.
WT OF STRING		52,000	LBS.
DRILLER		H Nolan	
WEATHER CONDITIONS		Clear - 40°	

BIT RECORD

Drilling or Core Bit No.	16
TYPE	OWV
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	13411
DEPTH IN	2710
DEPTH OUT	
FT. DRILLED	35
FT. REAMED	32 4¼ HRS
FT. CORED	
CUM. HRS. RUN	6 TOTAL 10¼
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2730		12	2742	LIMESTONE	130	10
2742	35		2777	DOLOMITE	140	15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	48	5 3/4
PUMP No. 2	825	6½	60	2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12:00	12:15		1/4	RIG SERV CHECK BOP'S
12:15	2:00	1	3/4	REAM 6 1/8 TO 9" HOLE
2:00	8:00	6		DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.7	9.7	9.7	9.7
VISC.	82	75	75	80
W.L.-C.C.	5.8	6.	6.2	5.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	7.	8.5	8.5	8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	400 lbs		
CAUSTIC	50 lbs		
Q-X	50 lbs.		

DAY TOUR

NO.	DRILLING ASSEMBLY		
27	STANDS DP	2454.49	FT.
	SNGLS. DP	59.31	FT.
9	D.C. OD	278.42	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	25.98	FT.
	TOTAL	2818	FT.
WT OF STRING		53,000	LBS.
DRILLER		L Wayne	
WEATHER CONDITIONS		-30	

BIT RECORD

Drilling or Core Bit No.	16
TYPE	OWV
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	13411
DEPTH IN	2710
DEPTH OUT	
FT. DRILLED	76
FT. REAMED	32 4¼ HRS
FT. CORED	
CUM. HRS. RUN	13¼
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2777	41		2818	LIMESTONE & DOLOMITE	140	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	900	7¼	52	7¾
PUMP No. 2	C.I.P. TANK	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8	8:30		½	RIG SERV BOP CHECK.
8:30	4:00	7	½	DRILL 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.7	9.7	10	9.9
VISC.	76	76	75	75
W.L.-C.C.	5.4	5.6	6.8	6.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	8.5	8.5	8	8
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
27	STANDS DP	2454.49	FT.
2	SNGLS. DP	59.31	FT.
9	D.C. OD 6 1/4	278.42	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	34.18	FT.
	TOTAL	2832.00	FT.
WT OF STRING		53,000	LBS.
DRILLER		E Mill	
WEATHER CONDITIONS		Cold: -36	

BIT RECORD

Drilling or Core Bit No.	16	17
TYPE	OWV	144H
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	13411	34377
DEPTH IN	2710	2832
DEPTH OUT	2832	
FT. DRILLED	90	
FT. REAMED	32 4¼ HRS	
FT. CORED		
CUM. HRS. RUN	17¼	
CONDITION	Dull	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2818	14		2832		140	13

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	50	4
PUMP No. 2	C.I.P. TANKS	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2830	2¼							

From	To	Elapsed Time		REMARKS
4:00	4:15		¼	RIG SERVICE & CHECK B.O.P.
4:15	8:15	4		DRILLING 9" HOLE.
8:15	8:30		¼	SURVEY.
8:30	11:00	2	½	PULL OUT TIGHT HOLE 2500' TO 2350'
11:00	12:00	1		RUN IN

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	10		
VISC.	75	75		
W.L.-C.C.	5.8	6		
FLTR. CK.	2/32	2/32		
pH	8.5	8.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 33 DATE: JAN. 24 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: ALTA
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD
TYPE THD.: F.H.
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. P. Brown
CONTRACTOR'S TOOL PUSHER: Hank Locke

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil well	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
D.S.T. #4		2678	2710		4 w 7½	RUBBER + ½ CHAIN
D.S.T. #5		2720	2740	F.S.I.	30	
SMALL BLOW THROUGH OUT TEST. REC 320 FT OF FLUID.						

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	1		
SUB TOTAL			
DAYWORK HOURS	7	8	
TOTAL HOURS	8	8	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	52
FEET CUT OFF	80
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	104
CUMULATIVE TON MI. or TRIPS	1639
NO. OF DAYS FROM SPUD	31
CUMULATIVE ROTATING HRS.	200.
DAYS SINCE LAST ACCDNT.	62
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	159
DAY TOUR	331
EVENING TOUR	87

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
26	STANDS DP	2364.99 FT.	Drilling or Core Bit No.	4-10
	SNGLS. DP	FT.	TYPE	KOEBEL
	D.C. OD	FT.	SIZE	6⅛
9	6¼ OD	278.42 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	2710
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	10.22 FT.	FT. CORED	3
	TOTAL	2713.00 FT.	CUM. HRS. RUN	1½
WT OF STRING	54,000 LBS.		CONDITION	IN
DRILLER	Al Mill			
WEATHER CONDITIONS	Cool -8°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2710		3	2713		90	6-8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIRC TANKS	7¼		1½
PUMP No. 2	675	6½	35	1½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	2:00	2	FINISH OUT W/PACKER.
2:00	3:00	1	BREAK PACKER & LAY DOWN SAME
3:00	4:00	1	CLEAN SUCTION TANK
4:00	5:30	1½	RUN IN W/CORE B.B.L.
5:30	6:30	1	CLEAN OUT TO BOTTOM & CIRC CORE B.B.L.
6:30	8:00	1½	CUTTING @ CORE # 10

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				9.8
VISC.				75
W.L.-C.C.				7.0
FLTR. CK.				2/32
pH				8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
IHP	1395#		
FFP	30#		
FFP	1275#		
FSIP	760#		
FHP	1395#		
TEST UNSUCCESSFUL.			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
26	STANDS DP	2364.99 FT.	Drilling or Core bit No.	4-10
	SNGLS. DP	FT.	TYPE	KOEBEL
	D.C. OD	FT.	SIZE	6⅛
9	6¼ OD	278.42 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	2710
	SUBS OD	FT.	DEPTH OUT	2742
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	37.22 FT.	FT. CORED	30
	TOTAL	2740 FT.	CUM. HRS. RUN	9½
WT OF STRING	54,000 LBS.		CONDITION	IN.
DRILLER	H. Nolan			
WEATHER CONDITIONS	Cloudy -10° LIGHT SNOW			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2713		27	2740		90	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	750	6½	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	4:00	8	CUTTING CORE # 10

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.8	9.8	9.8	9.8
VISC.	78	80	81	78
W.L.-C.C.	6.4	6.6	6.6	
FLTR. CK.	2/32	3/32	3/32	
pH	8	8	8	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
	STANDS DP	2364.99 FT.	Drilling or Core Bit No.	4-10	16
2	SNGLS. DP	59.47 FT.	TYPE	KOEBEL	OWV
	D.C. OD	FT.	SIZE	6⅛	9"
9	6¼ OD	279.42 FT.	NOZZ. SIZE		11/16
	RMR BODY OD	FT.	SERIAL No.	4440	13411
	STB BODY OD	FT.	DEPTH IN	2710	2710
	SUBS OD	FT.	DEPTH OUT	2742	
	BIT OR C.B.	60 FT.	FT. DRILLED		
		FT.	FT. REAMED	2	20
	Kelly Down	26.55 FT.	FT. CORED	32	
	TOTAL	2730. FT.	CUM. HRS. RUN	10	2½
WT OF STRING	52,000 LBS.		CONDITION	Good	IN
DRILLER	Al Payne.				
WEATHER CONDITIONS	-25°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2740		2	2742		130	10.
Reamed		20	2730			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIR TANK	7¼		
PUMP No. 2	650	6½	54	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4	4:30	½	@ CORING #10 Core #10 2710-2742 Rec 32
4:30	6	1½	PULL OUT W/CORE
6	6:45	¾	RECOVER CORE. SER BBL
6:45	8:15	1½	INSTALL KELLY COCK
8:15	9:30	1¼	TURN IN W/BIT # 16
9:30	12	2½	REAMING.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	TRIP		9.8	9.8
VISC.			84	84
W.L.-C.C.			5	
FLTR. CK.			3/32	
pH			8	8
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1500#		

REPORT No. 32 DATE: JAN 23, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Granoview Hills No. 1 | PROVINCE: N.W.T

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5-3/4" OD | TYPE THD. F.H | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL FUSHER: Doug Cooke

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214-P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
	DST #3	2650	2676	w/ 7½ RUBBER		
	¾" CHOKE	FSI 30	V.O. 75	FSI 30		
	FAIR BLOW THROUGHOUT TEST					
	REC 330 BLACK MUD	CASSY SULPHUROUS W				

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING		5½	11½
TRIPPING		1½	
RIG MAINTENANCE		1/4	
RIG REPAIRS	2	1/4	
HOLE SURVEYS			1/4
CONDITIONING MUD			
CONDITIONING HOLE			1
Reaming & Cleaning To Bottom		1½	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	1½		
SUB TOTAL			
DAYWORK HOURS	4½		6¼
TOTAL HOURS	8	8	6

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	106
FEET CUT OFF	80
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	48
CUMULATIVE TON MI. or TRIPS	583
NO. OF DAYS FROM SPUD	30
CUMULATIVE ROTATING HRS.	197½
DAYS SINCE LAST ACCDNT.	61
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	158
DAY TOUR	330
EVENING TOUR	86.

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: L. Mill

WEATHER CONDITIONS: Cool -10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2676			2676			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1		7¼		
PUMP No. 2		6½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	1⁰⁰	1	TOOL OPEN
1⁰⁰	1³⁰	½	FINAL SHUT IN.
1³⁰	3³⁰	2	POH PACKER LOOSE & PULL OUT W/SAME.
3³⁰	5³⁰	2	REPAIR CHAIN IN DUKS.
5³⁰	6³⁰	1	BREAK DOWN PACKER & LAY DOWN SAME.
6³⁰	8⁰⁰	1½	SLIP & CUT DRILLING LINE SLP 26' CUT 80"

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	I.H.P.	1395#		
VISC.	I.F.P.	25#		
W.L.-C.C.	ISI.	765		
FLTR. CK.	F.H.P.	1380		
pH	ISI UNSUCCESSFUL			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
25	STANDS DP	2272.99 FT.	Drilling or Core Bit No.	15 B
1	SNGLS. DP	30.83 FT.	TYPE	OWU
12	D.C. OD 6¼ OD	371.52 FT.	SIZE	9"
		FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	13417
	STB BODY OD	FT.	DEPTH IN	2676
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	31
		FT.	FT. REAMED	
	Kelly Down	30.06 FT.	FT. CORED	
	TOTAL	2707 FT.	CUM. HRS. RUN	5½
WT OF STRING		55,000 LBS.	CONDITION	IN

DRILLER: R. Nolan

WEATHER CONDITIONS: Cloudy -10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2676	31		2707	LIME STONE DOLOMITE.	115	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	48	5½
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	8¹⁵	1/4	RIG SERV. CHECK BOP'S
8¹⁵	8³⁰	1/4	REPAIR AIR LINE
8³⁰	10⁰⁰	1½	RUN IN W/ BIT 15-B
10⁰⁰	10³⁰	½	BLOW OUT KELLY CLEAN 15' TO BOTTOM
10³⁰	4⁰⁰	5½	DRILL 9" HOLE DST #3 2677 TO 2678' V.O. @ 850 AM. 3 flow. There was a G.I.P. fair air blow throughout test. Shut in 30 min. Pulled loose gassy sulphurous salt water (24000 PPM Cl') IHP - 1395# IFP 30# F.F.P. 175# FSIP 780# F.H.P. 1395# I.S.I. Unsuccessful

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.8	9.8	9.8	
VISC.	95	75	72	
W.L.-C.C.	5.0	5.2	5.6	
FLTR. CK.	2/32	2/32	2/32	
pH	8.5	8.5	8.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600 lbs		

3 min F.S.I. open 60 min F.F.P. 175# at 10.50 am Rec 320' Black

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
25	STANDS DP	2272.99 FT.	Drilling or Core Bit No.	15-B
	SNGLS. DP	30.83 FT.	TYPE	OWU
12	D.C. OD OD	371.52 FT.	SIZE	9"
			NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	13417
	STB BODY OD	FT.	DEPTH IN	2676
	SUBS OD	FT.	DEPTH OUT	2710
	BIT OR C.B.	.60 FT.	FT. DRILLED	34
		FT.	FT. REAMED	
	Kelly Down	34.06 FT.	FT. CORED	
	TOTAL	2710. FT.	CUM. HRS. RUN	6
WT OF STRING		55,000 LBS.	CONDITION	FAIR.

DRILLER: A. Rapp

WEATHER CONDITIONS: -10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2707	3		2710		115	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	50	
PUMP No. 2	C12 TANK	6½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2710	1 3/4	+						

From	To	Elapsed Time	REMARKS
4	4³⁰	½	DRLG. 10¹⁵-10⁴⁵ Tool shut in.
4³⁰	5³⁰	1	C12 SAMPLES TO TEST 10⁴⁵-12 HOIST OUT W/PACKER
5³⁰	5⁴⁵	1/4	SURVEY
5⁴⁵	6⁴⁵	1	HOIST OUT TO TEST. DST #3 @ 2650' w/ 26' perf Tail inside Bean set at bottom of packer
6⁴⁵	7⁴⁵	1	PICK UP MAKE UP TESTER 2 pressure bombs extending to 2676' V.D.
7⁴⁵	9⁴⁵	1	RUN IN. 11.23 am Tool 21 for 30 min initial shut in open 75 min for flow.
9⁴⁵	9¹⁵	½	INITIAL SHUT IN. There was a G.I.P. fair airblow throughout test. Shut in 30 min Pulled loose
9¹⁵	10⁰⁰	1	TOOL OPEN. @ 1.38 am Rec 300' black muddy gassy sulphurous water 20000 PPM Cl

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.8	T		
VISC.	76	R.		
W.L.-C.C.	6.2	1		
FLTR. CK.	2/32	D		
pH	8			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	100#		

IHP = 1395 IFP = 25 FFP = 175 FSIP 765# FHP 1380# I.S.I. unsuccessful

REPORT No. 31 DATE: JAN 22, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD, TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. P. Brown | CONTRACTOR'S TOOL PUSHER: Don Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil Well	214-P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	4¼	7	2¼
TRIPPING	7¾		
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS			
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	½	3¼	3½
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/16
FEET SLIPPED	26
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	519
CUMULATIVE TON MI. or TRIPS	519
NO. OF DAYS FROM SPUD	29
CUMULATIVE ROTATING HRS.	191½
DAYS SINCE LAST ACCDNT.	60
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	157
DAY TOUR	329
EVENING TOUR	

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
24	STANDS DP	2181.97 FT.	Drilling or Core Bit No.	14-D	15
1	SNGLS. DP	30.26 FT.	TYPE	MHN	OWV
	D.C. OD	FT.	SIZE	9"	9"
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	369727	13417
	STB BODY OD	FT.	DEPTH IN	2560	2610
	SUBS OD	FT.	DEPTH OUT	2610	
	BIT OR C.B.	.60 FT.	FT. DRILLED	50	2
		FT.	FT. REAMED		
	Kelly Down	27.65 FT.	FT. CORED		
	TOTAL	2612.00 FT.	CUM. HRS. RUN	12	½
WT OF STRING		59,000 LBS.	CONDITION	Rolling	IN
DRILLER	E Mill				
WEATHER CONDITIONS	Cool -14°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2575	17		2612		140	15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	50	4¾
PUMP No. 2	CIRC TANKS	6½		8

DEVIATION RECORD: DEPTH 2605 | DEV. 1¾° | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	Rig Service & Check B.O.P's
12¹⁵	4⁰⁰	3	¾	Drilling 9" Hole.
4⁰⁰	4³⁰		½	Circ Sample @ 2610.
4³⁰	4⁴⁵		¼	Survey
4⁴⁵	6⁰⁰	1	¼	Pull out w/Bit
6⁰⁰	7³⁰	1	½	Run in w/Bit # 15
7³⁰	8⁰⁰		½	Drilling 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.8	9.8		
VISC.	75	75		
W.L.-C.C.	7.2	7.2		
FLTR. CK.	2/32	2/32		
pH	8.5	8.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Driscose	25#	REG	

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
25	STANDS DP	2172.99 FT.	Drilling or Core Bit No.	15	
	SNGLS. DP	✓ FT.	TYPE	OWV	
	D.C. OD	FT.	SIZE	9"	
12	6¼ OD	371.52 FT.	NOZZ. SIZE	13417	
	RMR BODY OD	FT.	SERIAL No.	~~2610~~	
	STB BODY OD	FT.	DEPTH IN	2610	
	SUBS OD	FT.	DEPTH OUT		
	BIT OR C.B.	.60 FT.	FT. DRILLED	47	
		FT.	FT. REAMED		
	Kelly Down	11.89 FT.	FT. CORED		
	TOTAL	2557.00 FT.	CUM. HRS. RUN	7½	
WT OF STRING		55,000 LBS.	CONDITION	IN	
DRILLER	H Nolan				
WEATHER CONDITIONS	LIGHT SNOW CLOUDY -12°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2612	45		2657	LIMESTONE	140	15
				DOLOMITE	115	24

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	48	6
PUMP No. 2	800	6½	60	2

DEVIATION RECORD: DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	Rig Service Check BOP's
8¹⁵	12⁰⁰	3	¾	Drill 9" Hole
12⁰⁰	12⁴⁵		¾	Circ. Sample wait on orders
12⁴⁵	4⁰⁰	3	¼	Drill 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.2	9.2	9.2	9.2
VISC.	73	75	75	70
W.L.-C.C.	6.2	7.0	6.2	6.6
FLTR. CK.	2/32	2/32	2/32	2/32
pH	8.5	7.5	7.5	7.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	25 lbs		
Q-X	50 lbs		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
25	STANDS DP	2172.99 FT.	Drilling or Core Bit No.	15	
	SNGLS. DP	FT.	TYPE	OWV	
	D.C. OD	FT.	SIZE	9"	
12	6¼ OD	371.52 FT.	NOZZ. SIZE	11/16	
	RMR BODY OD	FT.	SERIAL No.	13417	
	STB BODY OD	FT.	DEPTH IN	2610	
	SUBS OD	FT.	DEPTH OUT	2676	
	BIT OR C.B.	60 FT.	FT. DRILLED	66	
		FT.	FT. REAMED		
	Kelly Down	30.89 FT.	FT. CORED		
	TOTAL	2676 FT.	CUM. HRS. RUN	9¾	
WT OF STRING		55,000 LBS.	CONDITION		
DRILLER	G Payne				
WEATHER CONDITIONS	-10°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2657	19		2676		120	24

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	48	4
PUMP No. 2	CIR TANK	6½		

DEVIATION RECORD: DEPTH 2676 | DEV. 1¾° | DIRECTION — | DEPTH | DEV. | DIRECTION | DEPTH | DEV. | DIRECTION

From	To	Elapsed Time		REMARKS
4	4¹⁵		¼	Rig Ser.
4¹⁵	5³⁰	1	¼	Drlg 9" Hole
5³⁰	6¹⁵		¾	Circ Sample.
6¹⁵	7⁴⁵	1		Drlg 9" Hole.
7¹⁵	7⁴⁵		½	Circ Prior to Test.
7⁴⁵	9		¼	Survey
8	9		1	Hoist for Test
9	10¹⁵	1	¼	Pick up make up Packer.

½	10¹⁵-11¹⁵	Run and set Packer
½	11¹⁵ 11⁴⁵	Initial Shut in.
11⁴⁵	12	Test Open.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.8	9.8		
VISC.	75	76		
W.L.-C.C.	6			
FLTR. CK.	2/32			
pH	8.5	8.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	100 #		

REPORT No. 30 DATE: JAN. 21, 60

— DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: F.H.
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker
LOCATION LSD. SEC. TWP. RGE. W.:
WELL NAME: Grandview Hills
No.: 1
PROVINCE: N.W.T.

PUMPS No.	MANUFACTURER	TYPE
1.	Oil Well	214-P
2.	" "	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
D.S.T. #2		2525	2560'	Ran Mot Mud Joint 7½" Kelly Tail.		
Packer 11" Bean. Tool Open 9.20 AM 30 min. IS.I. 45 mins						
Flow 30 F.S.I. Pulled Loose 11.05 AM. Blo. decreasing						
To very weak in 2 mins. Recovered Test Rec 25' Gassy Mud.						

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING		11½	7¾
TRIPPING			
RIG MAINTENANCE			¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	23½	
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/16
FEET SLIPPED	26
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	458
CUMULATIVE TON MI. or TRIPS	458
NO. OF DAYS FROM SPUD	28
CUMULATIVE ROTATING HRS.	138 ¼
DAYS SINCE LAST ACCDNT.	59
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	156
DAY TOUR	328
EVENING TOUR	84

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	2123.00 FT.	Drilling or Core Bit No.	14 RR
2	SNGLS. DP	60.10 FT.	TYPE	MUN
9	D.C. OD	FT.	SIZE	9
	6¼ OD	272.35 FT.	NOZZ. SIZE	369727
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	2560
	SUBS OD	FT.	DEPTH OUT	2560
	BIT OR C.B.	.60 FT.	FT. DRILLED	0
		FT.	FT. REAMED	
	Kelly Down	37.92 FT.	FT. CORED	
	TOTAL	2566.00 FT.	CUM. HRS. RUN	0
WT OF STRING	56,000 LBS.		CONDITION	GOOD
DRILLER	E. Mill			
WEATHER CONDITIONS	Cold — 10			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2560	CLEAN OUT TRIP TO TEST.					

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7½		
PUMP No. 2	CIRC TANKS			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12:00	1:00	1		LOGGING BY WELEX
1:00	3:00	2		RUN IN TO CONDITION HOLE
3:00	5:00	2		CIRC CONDITION MUD + HOLE TO TEST.
5:00	1:30	1	½	PULL OUT TO TEST
1:30	7:30	1		PICK UP PACKER & MAKE UP SAME
7:30	8:00		½	RUN IN W/ PACKER

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT		10	10	
VISC.		83	10-5	
W.L.-C.C.		6.8	6.8	
FLTR. CK.		2/32	1/32	
pH		8.5	8.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Driscose	25#	Reg	

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	2183.02 FT.	Drilling or Core Bit No.	14D
2	SNGLS. DP	60.10 FT.	TYPE	M4N
9	D.C. OD	FT.	SIZE	9"
	6¼ OD	278.35 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	369727
	STB BODY OD	FT.	DEPTH IN	2560
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	2
		FT.	FT. REAMED	
	Kelly Down	39.65 FT.	FT. CORED	
	TOTAL	2562 FT.	CUM. HRS. RUN	1½
WT OF STRING	52,000 LBS.		CONDITION	IN
DRILLER	H. Nolan			
WEATHER CONDITIONS	-120			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2560	2		2562		150	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	48	1½
PUMP No. 2	CIRC TANKS			

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	9:00	1		FINISH IN W/ DST #2
9:00	9:15		¼	MAKE UP HEAD 9:15-9:45 INITIAL SHUT IN.
9:45	10:30		¾	TOOL OPEN. 10:30-11:00, FINAL SHUT IN
11:00	1:00	2		PULL OUT W/ DST #2.
1:00	2:15	1	¼	BREAK DOWN TOOL. CLEAN & SERVICE SAME
2:15	3:30	1	¼	RUN IN W/ BIT #14D - BREAK CIRC.
3:30	4:00		½	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
25	STANDS DP	2292.54 FT.	Drilling or Core Bit No.	14-D
	SNGLS. DP	30.26 FT.	TYPE	M4N
	D.C. OD	FT.	SIZE	9"
9	6¼ OD	278.35 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	369727
	STB BODY OD	FT.	DEPTH IN	2560
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	35
		FT.	FT. REAMED	
	Kelly Down	12.25 FT.	FT. CORED	
	TOTAL	2595 FT.	CUM. HRS. RUN	3/4
WT OF STRING	39,000 LBS.		CONDITION	UNKNOWN
DRILLER	L. Lapp			
WEATHER CONDITIONS	-80			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2562	33		2595		140	15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	880	7¼		2¼
PUMP No. 2	CIR TANK	6½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:15	4:15		¼	RIG SER & BOP CHECK
4:15	12	7	¾	DRLG 9" HOLE.
				DST #2 Ran Mot, Kelly, Mule Leader
12	7¾			Bean set 2 Jts of packer @ 2525' w 35' per/tail including 2 Pressure Bombs
				extending to 2560' (1 recorder + 1 outside bomb) Valve opened at 9:20 am
				for initial shut in for 30 min. opened to flow for 45 min. There was a G.I.P
1	01½			decreasing in 2 min. to a very weak throughout test. Final shut in
				30 min. Pulled loose at 11.35 am. Rec 25' gas cut mud
				initial shut in pressures successful. HP 1320# FP 58# FSI 690#

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	9.8	9.8	9.8	9.8
VISC.	105	92	80	76
W.L.-C.C.	5.6	5.6	5.2	6.2
FLTR. CK.	1/32	2/32	2/32	2/32
pH	8.5	8.5	8.5	8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 29 DATE: JAN 20, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD, TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown. | CONTRACTOR'S TOOL PUSHER: Doug Forbes

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil well	214-P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING	3		
RIG MAINTENANCE			
RIG REPAIRS	11		
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	5	8	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	1 SIZE 1/2
FEET SLIPPED	26
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	410
CUMULATIVE TON MI. or TRIPS	410
NO. OF DAYS FROM SPUD	27
CUMULATIVE ROTATING HRS.	131
DAYS SINCE LAST ACCDNT.	58
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	155
DAY TOUR	327
EVENING TOUR	89

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	2123.02 FT.	Drilling or Core Bit No	14-B
2	SNGLS. DP	60.10 FT.	TYPE	M4N
	D.C. OD	FT.	SIZE	9"
9	OD	279.35 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	369737
	STB BODY OD	FT.	DEPTH IN	2540
	SUBS OD	FT.	DEPTH OUT	2560
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED	20
	Kelly Down	37.93 FT.	FT. CORED	
	TOTAL	2560.00 FT.	CUM. HRS. RUN	3
WT OF STRING		50,000 LBS.	CONDITION	

DRILLER: E. Mill

WEATHER CONDITIONS: Mild

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2540			2560		150	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7¼	49	
PUMP No. 2	CIRC TANKS	6½		

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	12:15	¼	Rig Service & Check B.O.P's
12:15	1:15	1	Pull out w/Core B.Bl.
1:15	2:00	¾	Recover Core, Service B.Bl & Stand Back Same
2:00	3:00	1	Run in w/Bit To Ream Rat Hole
3:00	6:00	3	Reaming 6⅛" to 9" Hole
6:00	7:00	1	Circ Hole To Log.
7:00	8:00	1	Pull out To Log

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9	9.9	9.9	
VISC.		83	80	
W.L.-C.C.	TRIP	7.6	7.4	
FLTR. CK.		35	32	
pH		8.5	8.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: D. Nolan

WEATHER CONDITIONS: Light Wind — 10°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2560						

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	8:15		Rig Serv. Check B.O.P's
8:15	4:00		Logging By Welex

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: L. Pope

WEATHER CONDITIONS: -18°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2560						

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4	12		Logging By Welex
			E Log - 598' to 2552'
			Contact Caliper - 2552 to 598'
			RA Log N/C 2552 to 100'
			1 G/R 2542 to 50'

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 8

DATE: JAN 19, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
OPERATOR'S REPRESENTATIVE: J. R. Brown
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1 PROVINCE: N.W.T.
RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5¾ OD | TYPE THD. F.H. | DRILL PIPE GRADE
CONTRACTOR'S TOOL PUSHER: [illegible] Taylor

PUMPS No.	MANUFACTURER	TYPE
1.	Oil well	D14-P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	2183.02 FT.	Drilling or Core Bit No.	14
1	SNGLS. DP	30.00 FT.	TYPE	M4N
	D.C. OD	FT.	SIZE	9"
9	6¼ OD	277.35 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	369727
	STB BODY OD	FT.	DEPTH IN	2508
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	15
		FT.	FT. REAMED	
	Kelly Down	31.03 FT.	FT. CORED	
	TOTAL	2523.00 FT.	CUM. HRS. RUN	3
WT OF STRING		45,000 LBS.	CONDITION	IN

DRILLER: E. Mill
WEATHER CONDITIONS: Mild + 26°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2508	15		2523		140	16

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7¼	48	3
PUMP No. 2	CIRC TANKS			8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2500	2°							

From	To	Elapsed Time		REMARKS
12[illegible]	12[illegible]		¼	RIG SERVICE & CHECK B.O.P's
12[illegible]	12[illegible]		¼	SURVEY
12[illegible]				PULL OUT W/BIT TIGHT HOLE 1870' TO 2190' CIRC OUT
	3[illegible]	2	½	THROUGH TIGHT HOLE.
3[illegible]	5[illegible]	2		RUN IN W/BIT REAM THROUGH TIGHT SPOTS.
5[illegible]	8[illegible]	3		DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				10.1
VISC.				80
W.L.-C.C.				7
FLTR. CK.				2/32
pH				8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	2183.02 FT.	Drilling or Core Bit No.	14
2	SNGLS. DP	60.10 FT.	TYPE	M4N
	D.C. OD	FT.	SIZE	9"
9	6¼ OD	278.35 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	369727
	STB BODY OD	FT.	DEPTH IN	2508
	SUBS OD	FT.	DEPTH OUT	2540
	BIT OR C.B.	.60 FT.	FT. DRILLED	32
		FT.	FT. REAMED	
	Kelly Down	17.93 FT.	FT. CORED	
	TOTAL	2540.00 FT.	CUM. HRS. RUN	5
WT OF STRING		45,000 LBS.	CONDITION	

DRILLER: H. Nolan
WEATHER CONDITIONS: Cloudy + 30°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2523	17		2540		160	15

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	50	6½
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8[illegible]	8[illegible]		¼	RIG SERVICE CHECK BOP's
8[illegible]	10[illegible]	2		DRILL 9" HOLE
10[illegible]	10[illegible]		¼	CIRC SAMPLE
10[illegible]	1[illegible]	3		CIRCULATING CONDITION MUD & HOLE MIX GEL
1[illegible]	3[illegible]	1	1/2	PULL OUT TO CORE (SLM)
3[illegible]	3[illegible]		¼	PICK UP CORE BBL MAKE UP BIT
3[illegible]	[illegible]		¼	START IN W/ SAME
				SLM - 1.80 DIFF.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	10.	9.8	
VISC.	82	115	78	
W.L.-C.C.	7.2	6.4	6.4	
FLTR. CK.	2/32	2/32	2/32	
pH	8.5	7.5	7.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
DRISCOSE	50 lbs	PEG	
GEL	1200 lbs		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
24	STANDS DP	2183.02 FT.	Drilling or Core Bit No.	4-9
	SNGLS. DP	FT.	TYPE	Hardsalo
	D.C. OD	FT.	SIZE	6¼
9	6¼ OD	278.35 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	2540
	SUBS OD	FT.	DEPTH OUT	2560
	BIT OR C.B.	57.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	39.21 FT.	FT. CORED	20
	TOTAL	2560. FT.	CUM. HRS. RUN	7¼
WT OF STRING		51,000 LBS.	CONDITION	

DRILLER: A. Payne
WEATHER CONDITIONS: 15+

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2540		20	2560		90	2-3
						6-8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	CIR TANK	7¼		
PUMP No. 2	750	6½	55	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4	4[illegible]		¼	RIG SER
4[illegible]	4[illegible]		¼	RUN IN TO CORE
4[illegible]	4[illegible]		¼	CIRC CORE BBL
4[illegible]	12	7	¼	CUTTING CORE #9
				CORE #9 - 2540-2560 RECOVER 20'

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	TRIP	9.8	9.8	9.8
VISC.	[illegible]	76	80	84
W.L.-C.C.	CIR	6	7.2	7
FLTR. CK.	1 HR	2/32	2/32	2/32
pH		8.5	8.5	8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

TIME DISTRIBUTION—HOURS

	Morn.	Day	Eve
DRILLING	3	2	
TRIPPING	4½		
RIG MAINTENANCE	¼	1¼	¼
RIG REPAIRS			
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	11½	5¾	7¼
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1¼
FEET SLIPPED	26
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	374
CUMULATIVE TON MI. or TRIPS	374

NO. OF DAYS FROM SPUD	26
CUMULATIVE ROTATING HRS.	128¼
DAYS SINCE LAST ACCDNT.	27
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	154
DAY TOUR	326
EVENING TOUR	82.

REPORT No. 27 DATE: JAN 18, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: R.O. Corp Grandview Hills No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT 5 3/4 OD, TYPE THD. F.H | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. E. Brown. | CONTRACTOR'S TOOL PUSHER: Doug Carlson

PUMPS

No.	MANUFACTURER	TYPE
1.	Oil well	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING		3	7¾
TRIPPING			
RIG MAINTENANCE		1¼	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	4¾	8
TOTAL HOURS	8	8	8

DRILLING ASSEMBLY

NO.			
21	STANDS DP	1916.40	FT.
2	SNGLS. DP	60.73	FT.
	D.C. OD		FT.
12	6¼ OD	371.52	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	59.37	FT.
			FT.
	Kelly Down	34.98	FT.
	TOTAL	2447.00	FT.
WT OF STRING		55,000	LBS.
DRILLER		E. Mill	
WEATHER CONDITIONS		Cool – 14	

BIT RECORD

Drilling or Core Bit No.	4-8 / 13
TYPE	◊ / M4N
SIZE	6½ / 9"
NOZZ. SIZE	/ 11/16
SERIAL No.	44440 / 364152
DEPTH IN	2414
DEPTH OUT	2447
FT. DRILLED	
FT. REAMED	
FT. CORED	33
CUM. HRS. RUN	9½
CONDITION	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2432		15	2447		90	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	Nil.	7¼	25	4
PUMP No. 2	725	6½	35	4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	4:00	4	Cutting ◊ Core # 8
4:00	5:30	1 ½	Pull out w/Core B.Bl.
5:30	7:00	1 ½	Recover Core Service B.Bl. & Stand Back 3 DCs
7:00	8:00	1	Run in w/Bit To Ream Stand Back 6 D.Cs

Core #8 2414 – 2447 Recover 33'

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	10.1	10.1		
VISC.	67	65		
W.L.-C.C.	6	6.4		
FLTR. CK.	3/32	2/32		
pH	9	9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

DRILLING ASSEMBLY

NO.			
24	STANDS DP	2184.64	FT.
2	SNGLS. DP	60.57	FT.
6	D.C. OD	185.26	FT.
	6¼ OD		
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	38.93	FT.
	TOTAL	2470	FT.
WT OF STRING		43,000	LBS.
DRILLER		A. Nolan	
WEATHER CONDITIONS		Cloudy Light Wind – 10	

BIT RECORD

Drilling or Core Bit No.	13
TYPE	M4N
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	364152
DEPTH IN	2414
DEPTH OUT	
FT. DRILLED	
FT. REAMED	33 4 HRS
FT. CORED	
CUM. HRS. RUN	7
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2414		33	2447	LIME-STONE	150	10
2447	23	~~28~~	2470			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	54	7.
PUMP No. 2	Nil.	6½	30	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	8:15	1/4	Rig Serv Check BOP's
8:15	9:00	3/4	Pick up 6 singles Break Circ. Clean out tight hole to top of Rat Hole
9:00	1:00	4	Ream 6 1/8 To 9" Hole.
1:00	4:00	3	Drill 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.1	10.	10.1
VISC.		65	52	54
W.L.-C.C.		6.6	6.8	7.
FLTR. CK.		2/32	2/32	2/32
pH		8.5	8.5	8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	150 #		

EVENING TOUR

DRILLING ASSEMBLY

NO.			
25	STANDS DP	2274.29	FT.
1	SNGLS. DP	30.82	FT.
6	D.C. OD	185.26	FT.
	OD		
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	17.03	FT.
	TOTAL	2508	FT.
WT OF STRING		41,000	LBS.
DRILLER		[illegible]	
WEATHER CONDITIONS		Mild +30	

BIT RECORD

Drilling or Core Bit No.	13
TYPE	M4N
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	364152
DEPTH IN	2414
DEPTH OUT	
FT. DRILLED	60
FT. REAMED	33 4 HRS.
FT. CORED	
CUM. HRS. RUN	10 3/4
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2470	38		2508		160	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7¼	54	8
PUMP No. 2	Circ TANK	6½	30	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4	4:15	1/4	Rig Serv BOP Check.
4:15	12	7 3/4	Drlg 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.9	9.7	9.8	9.9
VISC.	60	64	75	75
W.L.-C.C.	7.2	7		7.2
FLTR. CK.	2/32	2/32		2/32
pH	8.5	8.5		8.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	2800 #		
Caustic	95 #		
AX	50 #		
Tannathin	50		

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6
SIZE	1 1/16
FEET SLIPPED	26
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	326
CUMULATIVE TON MI. or TRIPS	326

NO. OF DAYS FROM SPJD	25
CUMULATIVE ROTATING HRS.	123 1/4
DAYS SINCE LAST ACCDNT.	37
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	153
DAY TOUR	325
EVENING TOUR	81

REPORT No. 26 DATE: JAN 17 60

DAILY DRILLING REPORT

OPERATOR: Pitchfield Oil Corp | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 1 4½ | TOOL JOINT 5¾ OD, TYPE THD. F.H. | DRILL PIPE GRADE 2-3

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Don Lake

PUMPS No.	MANUFACTURER	TYPE
1.	Oil Well	214 P.
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	3¼	
TRIPPING			
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS		3¾	
HOLE SURVEYS		¼	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		¼	
SUB TOTAL			
DAYWORK HOURS		7¼	7¼
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	0
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	311
CUMULATIVE TON MI. or TRIPS	311
NO. OF DAYS FROM SPUD	25
CUMULATIVE ROTATING HRS.	108½
DAYS SINCE LAST ACCDNT.	36
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	80
DAY TOUR	152
EVENING TOUR	324

MORNING TOUR

NO.	DRILLING ASSEMBLY		
22	STANDS DP	2007.10	FT.
	SNGLS. DP		FT.
12	D.C. OD	371.77	FT.
	OD		
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	60	FT.
			FT.
	Kelly Down	27.53	FT.
	TOTAL	2407	FT.
WT OF STRING		56m.	LBS.
DRILLER		Gilmore	
WEATHER CONDITIONS		-4	

BIT RECORD	
Drilling or Core Bit No	12
TYPE	OWV
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	15284
DEPTH IN	2307
DEPTH OUT	
FT. DRILLED	100
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	16
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2360	48		2408		110	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7¼	56	8
PUMP No. 2	Circ Tanks			8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12	12¹⁵		¼	Rig Ser & BOP Check.
12¹⁵	8	7	¾	Drlg 9" Hole.

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.1	10.1	10.1
VISC.	52	55	62	62
W.L.-C.C.	6.8		6.8	7/32
FLTR. CK.	3/32		3/32	7.6
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DAY TOUR

NO.	DRILLING ASSEMBLY		
22	STANDS DP	2007.10	FT.
	SNGLS. DP		FT.
12	D.C. OD 1¼	371.77	FT.
	OD		
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	60	FT.
			FT.
	Kelly Down	34.53	FT.
	TOTAL	2414.00	FT.
WT OF STRING		54,000	LBS.
DRILLER		E. Mill	
WEATHER CONDITIONS		Cool -12 windy	

BIT RECORD	
Drilling or Core Bit No.	12
TYPE	OWV
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	15284
DEPTH IN	2307
DEPTH OUT	2414
FT. DRILLED	107
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	17¾
CONDITION	Dull

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2408	6		2414		100	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7¼	56	2¾
PUMP No. 2	Circ Tanks			8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2400	2°							

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	Rig Service & Check B.O.P's
8¹⁵	10⁰⁰	1	¾	Drilling 9" Hole
10⁰⁰	10³⁰		½	Circ To Core
10³⁰	10⁴⁵		¼	Survey
10⁴⁵	11⁰⁰		¼	Pull Out To Core
11¹⁵	3⁰⁰	3	¾	Work on Dunks Air System.
3⁰⁰	3¹⁵		¼	Finish out w/ Bit. (3⁴⁵ 4⁰⁰ 1¼ Lay Down Bent DC
3¹⁵	3⁴⁵		½	Pick up Core B.Bl.

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1			
VISC.	65			
W.L.-C.C.	7			
FLTR. CK.	7/32			
pH	9			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		
21	STANDS DP	1916.40	FT.
2	SNGLS. DP	60.73	FT.
12	D.C. OD	371.52	FT.
	OD		
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	59.37	FT.
			FT.
	Kelly Down	15.67	FT.
	TOTAL	2432	FT.
WT OF STRING		55,000	LBS.
DRILLER		R. Nolan	
WEATHER CONDITIONS		Windy -15°	

BIT RECORD	
Drilling or Core Bit No.	H-8
TYPE	◇
SIZE	6 1/8
NOZZ. SIZE	
SERIAL No.	4440
DEPTH IN	2414
DEPTH OUT	
FT. DRILLED	
FT. REAMED	
FT. CORED	18
CUM. HRS. RUN	5½
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2414		18	2432	Limestone	90	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	725	6½	35	6½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4⁰⁰	4¹⁵		¼	Rig Service
4¹⁵	5³⁰	1	¼	Pick up 1 D.C Runin w/ Core Bbl.
5³⁰	6³⁰	1		Lay Down 2 Singles' Clean 12' To Bottom Circ. Core Bbl.
6³⁰	12⁰⁰	5	½	Cutting Core #8.

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.1	10.1	10.1
VISC.		68	70	66
W.L.-C.C.		6.2	6.4	6.2
FLTR. CK.		2/32	2/32	2/32
pH		9.0	9.	9.
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 25 DATE: JAN. 16/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 1 4½
TOOL JOINT: 5¾ OD TYPE THD.: F.H.
DRILL PIPE GRADE: 2-3.
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No.: 1 PROVINCE: N.W.T.
OPERATOR'S REPRESENTATIVE: J. R. Brown.
CONTRACTOR'S TOOL PUSHER: Dave Parker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

MORNING TOUR

TIME DISTRIBUTION—HOURS	Mom	Day	Eve
DRILLING	7¼	1	7¾
TRIPPING		6	
RIG MAINTENANCE	¼		1¼
RIG REPAIRS			
HOLE SURVEYS		¼	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	3/4		
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

NO.	DRILLING ASSEMBLY		
21	STANDS DP	1916.34	FT.
	SNGLS. DP		FT.
12	D.C. OD / CD	371.77	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	14.29	FT.
	TOTAL	2303	FT.
WT OF STRING		53000	LBS.
DRILLER		L. Bayne	
WEATHER CONDITIONS		-34	

BIT RECORD		
Drilling or Core Bit No.	11	
TYPE	OWV	
SIZE	9"	
NOZZ. SIZE	11/16	
SERIAL No.	13420	
DEPTH IN	2145	
DEPTH OUT		
FT. DRILLED	108	
FT. REAMED	50?	5¾ HRS
FT. CORED		
CUM. HRS. RUN	29¼	
CONDITION	IN.	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2245	58		2303		100	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	700	7¼	56	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12	12¼		¼	Rig Serv & Check BOP's
12¼	8.00	7	¾	Drlg 9" Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.2	10.3	10.1
VISC.	44	44	42	47
W.L.-C.C.	7.4			6
FLTR. CK.	2/32			2/32
pH	9.5	9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	500#		

DAY TOUR

NO.	DRILLING ASSEMBLY		
21	STANDS DP	1916.40	FT.
	SNGLS. DP		FT.
12	D.C. OD 6¼	371.77	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	19.23	FT.
	TOTAL	2308.00	FT.
WT OF STRING		56,000	LBS.
DRILLER		L. Mill	
WEATHER CONDITIONS		Cold -40°	

BIT RECORD		
Drilling or Core Bit No.	11	12
TYPE	OWV	OWV
SIZE	9"	9"
NOZZ. SIZE	11/16	11/16
SERIAL No.	13420	15284
DEPTH IN	2145	2307
DEPTH OUT	2307	
FT. DRILLED	112	1
FT. REAMED	50	
FT. CORED		
CUM. HRS. RUN	20¾	½
CONDITION	DULL	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2303	5		2308		100	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7¼	57	1
PUMP No. 2	NIL	6½		8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2307	1¼							

From	To	Elapsed Time		REMARKS
8.00	8.30		½	Drilling 9" Hole
8.30	8.42		¼	Rig Service & Check B.O.P's
8.45	9.00		¼	Survey
9.00				Pull out w/Bit Tight Hole @ 1896' to 1950' Work Tight Hole & Plugged Bit. Unplug Bit & Run in Collars.
	12.30	3	½	(3.30 - 4.00 ½ Drilling 9" Hole)
12.30	1.00		½	Slipline 26'
1.00	3.30	2	½	Run in Pipe Tight Hole & Clean out to Bottom.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	600#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
21	STANDS DP	1916.40	FT.
2	SNGLS. DP	59.98	FT.
12	D.C. OD 6¼	371.77	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	11.25	FT.
	TOTAL	2360	FT.
WT OF STRING		56,000	LBS.
DRILLER		H. Holan	
WEATHER CONDITIONS		Clear -42° No Wind.	

BIT RECORD	
Drilling or Core Bit No.	12
TYPE	OWV
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	15284
DEPTH IN	2307
DEPTH OUT	
FT. DRILLED	53
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	8¼
CONDITION	IN.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2308	52		2360	LIMESTONE.	110	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	775	7¼	57	7¾
PUMP No. 2	NIL	6½	30	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4.00	4.15		¼	Rig Serv.
4.15	12.00	7	¾	Drill 9" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.2	10.1
VISC.	82	74	55	56
W.L.-C.C.	6.8	7.0	6.2	6.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	7.5	9.5	9.0	9.0
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	20 SAK		
CAUSTIC	50#		
Q-X	50#		
TANNATHIN	50#		

WIRE LINE RECORD	
REEL NO.	
NO. OF LINES	61' SIZE 1 1/8
FEET SLIPPED	26
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	283
CUMULATIVE TON MI. or TRIPS	283

NO. OF DAYS FROM SPUD	24
CUMULATIVE ROTATING HRS.	99.
DAYS SINCE LAST ACCDNT.	35
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	79
DAY TOUR	151
EVENING TOUR	323.

REPORT No. 24 DATE: JAN 15/60

RECEIVED — CALGARY, ALBERTA — FEB 3 1960 — Northern Petroleum Exploration & Production Division

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills No. 1 | PROVINCE: Alta

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 14½ | TOOL JOINT 5¾ OD, TYPE THD. F.H. | DRILL PIPE GRADE 2-3

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Ray Carlson

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			6½
TRIPPING			
RIG MAINTENANCE		½	1½
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	7¾	1½
TOTAL HOURS	8	8	

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	0
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	255
CUMULATIVE TON MI. or TRIPS	255
NO. OF DAYS FROM SPUD	23
CUMULATIVE ROTATING HRS.	82½
DAYS SINCE LAST ACCDNT.	34
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	78
DAY TOUR	150
EVENING TOUR	322

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
19	STANDS DP	1736.14 FT.	Drilling or Core Bit No.	4-7
	SNGLS. DP	FT.	TYPE	Rock Bit
	D.C. OD	FT.	SIZE	6⅛
12	6¼ OD	371.97 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	2145
	SUBS OD	FT.	DEPTH OUT	2195
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	27.72 FT.	FT. CORED	50
	TOTAL	2195 FT.	CUM. HRS. RUN	10½
WT OF STRING	52 M. LBS.		CONDITION	

DRILLER: E. Payne

WEATHER CONDITIONS: Cool -26

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2162	3	33	2195		90	8-10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1100	7½	30	8
PUMP No. 2	1650	6½	34	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	6.30	6½	Core # 7
6.30	8	1½	Hoist Core # 7

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.2	10.2	
VISC.	45	44	42	
W.L.-C.C.	7.6			
FLTR. CK.	2/32			
pH	9.5	9.5	9.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	400#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
19	STANDS DP	1736.14 FT.	Drilling or Core Bit No.	11
2	SNGLS. DP	59.95 FT.	TYPE	OWW
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.77 FT.	NOZZ. SIZE	1/16
	RMR BODY OD	FT.	SERIAL No.	13420
	STB BODY OD	FT.	DEPTH IN	2145
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED	39
	Kelly Down	14.54 FT.	FT. CORED	
	TOTAL	2183.00 FT.	CUM. HRS. RUN	4½
WT OF STRING	52,000 LBS.		CONDITION	IN

DRILLER: E. Mill

WEATHER CONDITIONS: Cool -26

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2145		38	2183		180	8-10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7½	54	4½
PUMP No. 2	Nil	6½	30	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8.00	10.00	2	Recover Core, Service R.B.L. & Stand Back Same
10.00	10.10	¼	Rig Service & Check B.O.P.
10.15	11.20	1 ¼	Run in w/ 9" Bit To Ream Rathole
11.30	4.00	4½	Reaming 6⅛ To 9" Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT			10.2	10.2
VISC.			43	44
W.L.-C.C.			7.6	6.8
FLTR. CK.			2/32	2/32
pH			9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	500#		
Caustic	25#		
Qx.	50#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
20	STANDS DP	1826.71 FT.	Drilling or Core Bit No.	11
1	SNGLS. DP	30.50 FT.	TYPE	OWW
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.77 FT.	NOZZ. SIZE	1/16
	RMR BODY OD	FT.	SERIAL No.	13420
	STB BODY OD	FT.	DEPTH IN	2145
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	50
		FT.	FT. REAMED	50
	Kelly Down	15.42 FT.	FT. CORED	
	TOTAL	2245 FT.	CUM. HRS. RUN	12¼
WT OF STRING	52,000 LBS.		CONDITION	IN

DRILLER: D. Nolan

WEATHER CONDITIONS: CLEAR -28° NO WIND.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2183		12	2195		180	8-10
2195	50		2245	LIMESTONE	110	25

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	750	7¾	54	7¾
PUMP No. 2	Nil	6½	30	7¾

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4.00	4.15	¼	Rig Serv & Check BOP's.
4.15	5.30	1 ¼	[redacted] Ream 6⅛ To 9" Hole.
5.30	12.00	6½	Drilling 9" Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10.2
VISC.	42	43	42	46
W.L.-C.C.	6.4	6.2	6.4	6.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	9.0
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	10 of 14		
Hi Vis Dispose	5 lbs.		

REPORT No. 23 DATE: JAN 14/60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills No. 1 | PROVINCE: B.C.I.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 1 4½ | TOOL JOINT 5 3/4 OD, TYPE THD. F.H. | DRILL PIPE GRADE 2-3

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Baker

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214P.
2.	"	"
3.		

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
	13⅜	54	0	589.			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	7¾	3¾	
TRIPPING			
RIG MAINTENANCE	¼		
RIG REPAIRS			
HOLE SURVEYS		¼	
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS		4	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 11/16
FEET SLIPPED	0
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	227
CUMULATIVE TON MI. or TRIPS	227

NO. OF DAYS FROM SPUD	22
CUMULATIVE ROTATING HRS.	76
DAYS SINCE LAST ACCDNT.	33
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	149
EVENING TOUR	321

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
19	STANDS DP	1736.14 FT.	Drilling or Core Bit No.	10
	SNGLS. DP	FT.	TYPE	S6
	D.C. OD	FT.	SIZE	9"
12	D.C. OD	371.77 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	361187
	STB BODY OD	FT.	DEPTH IN	2050
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	60 FT.	FT. DRILLED	70
		FT.	FT. REAMED	
	Kelly Down	11.49 FT.	FT. CORED	
	TOTAL	2120 FT.	CUM. HRS. RUN	8
WT OF STRING		LBS.	CONDITION	IN

DRILLER: L. Payne. WEATHER CONDITIONS: -34 cold.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2052	68		2120		100	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1		7¼	56	
PUMP No. 2	600	6½	60	6

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	12⁰⁵	¼	Rig Ser & BOP check.
12⁰⁵	8	7¾	Drlg 9" Hole.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.1	10	10
VISC.	47	46	45	45
W.L.-C.C.	7/32	7/32	7/32	
FLTR. CK.	6.8		6.4	
pH	9		9	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	300#		
Caustic	25#		
CK	50#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
19	STANDS DP	1736.14 FT.	Drilling or Core Bit No.	10
	SNGLS. DP	FT.	TYPE	S6
	D.C. OD	FT.	SIZE	9"
12	D.C. 6¼ OD	371.77 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	361187
	STB BODY OD	FT.	DEPTH IN	2050
	SUBS OD	FT.	DEPTH OUT	2145
	BIT OR C.B.	.60 FT.	FT. DRILLED	95
		FT.	FT. REAMED	
	Kelly Down	2.49 FT.	FT. CORED	
	TOTAL	2145.00 FT.	CUM. HRS. RUN	11¾
WT OF STRING		50,000 LBS.	CONDITION	IN

DRILLER: E. Mill. WEATHER CONDITIONS: Cold -25

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2120	25		2145		100	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	600	6½	60	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2145	1⁰							

From	To	Elapsed Time	REMARKS
8⁰⁰	8¹⁵	¼	Rig Service & Check B.O.P's
8¹⁵	12³⁰	3 ¾	Drilling 9" Hole
12³⁰	12³⁰	½	Circ to Core
12³⁰	12⁴⁵	¼	Survey
12⁴⁵	2¹⁵	1 ½	Pull Out ~~for Core~~ ~~Bbl~~. Pick up Magnet
2¹⁵	2³⁰	¼	Check Blind Rams.
2³⁰	4⁰⁰	1 ½	Run in w/Magnet & Break Circ

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2		
VISC.	45	45		
W.L.-C.C.		7.6		
FLTR. CK.		2/32		
pH		9		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
18	STANDS DP	1643.97 FT.	Drilling or Core Bit No.	H-7
2	SNGLS. DP	61.59 FT.	TYPE	◇
	D.C. OD	FT.	SIZE	6 1/8
17	D.C. 6¼ OD	371.77 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	2145
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	25.16 FT.	FT. CORED	17
	TOTAL	2162.35 FT.	CUM. HRS. RUN	4
WT OF STRING		52,000 LBS.	CONDITION	IN

DRILLER: H. Holan. WEATHER CONDITIONS: Clear - 35°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2145		17	2162		90	8⁄10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	600	7¼	28	2
PUMP No. 2	575	6½	35	2

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
2145	1°							

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	¼	Circ Work Magnet
4¹⁵	4³⁰	¼	Rig Serv Check BOP's
4³⁰	6⁰⁰	1 ½	Pull out w/ Magnet
6⁰⁰	6³⁰	½	Clean Magnet - Pick up Core Bbl Make up Bit.
6³⁰	7⁴⁵	1 ¼	Run in w/ Core Bbl
7⁴⁵	8⁰⁰	¼	Circ Core Bbl
8⁰⁰	12⁰⁰	4	Cutting Core #7

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT			10.2	10.2
VISC.			46	45
W.L.-C.C.			8.0	7.8
FLTR. CK.			2/32	2/32
pH			9.0	9.0
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 22 DATE: JAN 13/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CORP
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
OPERATOR'S REPRESENTATIVE:
CONTRACTOR'S TOOL PUSHER:
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS 1 No. 1
PROVINCE: N.W.T.

DRILL PIPE STRING NO. SIZE: 1 4½
TOOL JOINT: 5-3/4OD TYPE THD. F-H
DRILL PIPE GRADE: 2-3

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
	12 3/8	36	0	589			

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING		7¾	2½
TRIPPING			2
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS			2
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	2¾		¾
SUB TOTAL			
DAYWORK HOURS	4		
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	0
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	177
CUMULATIVE TON MI. or TRIPS	177
NO. OF DAYS FROM SPUD	21
CUMULATIVE ROTATING HRS.	64¼
DAYS SINCE LAST ACCDNT.	32
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	148
EVENING TOUR	320

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
17	STANDS DP	1552.91 FT.	Drilling or Core Bit No.	9
	SNGLS. DP	FT.	TYPE	S6
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.77 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	342170
	STB BODY OD	FT.	DEPTH IN	1896
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	60 FT.	FT. DRILLED	
		FT.	FT. REAMED	45
	Kelly Down	16.72 FT.	FT. CORED	
	TOTAL	1941 FT.	CUM. HRS. RUN	2¾
WT OF STRING	47M	LBS.	CONDITION	IN.
DRILLER	Gilroyd			
WEATHER CONDITIONS	-20 Cool			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1896		45	1941		100	10

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	650	7¼	50	2¾
PUMP No. 2	N.L	6½	30	8.

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12	12 15		¼	RIG SER & BOP CHECK
12 15	1 15	1		RECOVER CORE SER BBL
1 15	4	2	¾	CLEAN SHAKER TANK.
4	5	1		RUNN W/ BIT #9.
5	5 50		¼	BREAK CIRC CLEANOUT TO TOP OF RAT HOLE
5 15	8	2	¾	REAMING 6 1/8" TO 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT	TR	IP		10.2
VISC.				48
W.L.-C.C.				6
FLTR. CK.				7/32
pH				9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
gel	100#		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
18	STANDS DP	1643.97 FT.	Drilling or Core Bit No.	9
	SNGLS. DP	FT.	TYPE	S6
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.77 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	342670
	STB BODY OD	FT.	DEPTH IN	1896
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	89
		FT.	FT. REAMED	45
	Kelly Down	13.66 FT.	FT. CORED	
	TOTAL	2030.00 FT.	CUM. HRS. RUN	10½
WT OF STRING	49000	LBS.	CONDITION	IN
DRILLER	E. Mill			
WEATHER CONDITIONS	Cool -18°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1941	89		2030		160	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	650	7¼	50	7¾
PUMP No. 2	Nil	6½	28	4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8 00	8 15		¼	RIG SERVICE + CHECK B.O.P's.
8 15	4 00	7	¾	DRILLING 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.1	10.1	10.1
VISC.	46	45	43	42
W.L.-C.C.	6	6	5.8	5.8
FLTR. CK.	2/32	2/32	2/32	2/32
pH	8.5	8.5	9.0	9.0
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	25#		
Qx.	50 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
18	STANDS DP	1643.97 FT.	Drilling or Core Bit No.	9	10
	SNGLS. DP	✓ FT.	TYPE	S-6	S-6
	D.C. OD	FT.	SIZE	9"	9"
12	6¼ OD	371.77 FT.	NOZZ. SIZE	11/16	11/16
	RMR BODY OD	FT.	SERIAL No.	342670	361187
	STB BODY OD	FT.	DEPTH IN	1896	2050
	SUBS OD	FT.	DEPTH OUT	2050	
	BIT OR C.B.	.60 FT.	FT. DRILLED	109	2
		FT.	FT. REAMED	45	
	Kelly Down	36.65 FT.	FT. CORED		
	TOTAL	2052 FT.	CUM. HRS. RUN	12¾	1¼
WT OF STRING	50,000	LBS.	CONDITION	Dull	IN
DRILLER	A. Nolan			OOG	
WEATHER CONDITIONS	Clear -36°				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
2030	22		2052	LIMESTONE	160	28
					120	28

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	725	7¼	56	2½
PUMP No. 2	NIL	6½	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4 00	4 15		1/4	RIG SERV. CHECK BOP
4 15	6 30	2	1/4	DRILL 9" HOLE.
6 30	7 00		1/2	CIRC SAMPLE.
7 00	8 00	1		PULL OUT
8 00	10 00	2		CHANGE OIL IN DRINK'S CLEAN INSIDE OF SAME MACHANIC SYNCRONIZING MOTORS.
10 00	11 00	1		RUN IN W/ BIT # 10
11 00	11 45		3/4	REAM 50' OOG HOLE. 11 45 12 00 DRILLING

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1			10.1
VISC.	40			47
W.L.-C.C.	6.0			6.2
FLTR. CK.	2/32			2/32
pH	9.0			9.0
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Bel	700 lb		

REPORT No. 21 DATE: JAN 12/60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp.
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: Grand View Hill No. 1
PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: F.H.
DRILL PIPE GRADE: 2-3

OPERATOR'S REPRESENTATIVE: B.T. Duckworth
CONTRACTOR'S TOOL PUSHER: Doug Baker

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3¼		
TRIPPING			
RIG MAINTENANCE	¼	¼	
RIG REPAIRS			
HOLE SURVEYS	¼		
CONDITIONING MUD			
CONDITIONING HOLE	½		
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	4½		
SUB TOTAL			
DAYWORK HOURS		7¾	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 11/16
FEET SLIPPED	0
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	139½
CUMULATIVE TON MI. or TRIPS	139½
NO. OF DAYS FROM SPUD	20
CUMULATIVE ROTATING HRS.	52½
DAYS SINCE LAST ACCDNT.	31
DRILLER /ACCDNT. FREE DAYS	
MORNING TOUR	75
DAY TOUR	147
EVENING TOUR	319

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.
16	STANDS DP		1449.28
	SNGLS. DP		—
	D.C. OD		
12	6¼ OD		371.77
	RMR BODY OD		
	STB BODY OD		
	SUBS OD		
	BIT OR C.B.		59.37
	Kelly Down		4.78
	TOTAL		1896
WT OF STRING			49,000 LBS.
DRILLER			E. Payne
WEATHER CONDITIONS			-25°C

BIT RECORD		
Drilling or Core Bit No.	8	4-6
TYPE	OSC3	KOEBEL
SIZE	9"	6¼
NOZZ. SIZE	1/16	
SERIAL No.	66031	4445
DEPTH IN	11.59	1896
DEPTH OUT	1896	
FT. DRILLED	192.	
FT. REAMED	45	
FT. CORED		
CUM. HRS. RUN	9¼	
CONDITION	FAIR	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1810	86		1896		150	20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	650	7¼	50	4
PUMP No. 2	400	6½		½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1896	¼							

From	To	Elapsed Time	REMARKS
8²	12¹⁵	¼	Rig Serv & BOP Check — 7-7⁴⁵ Run in to Core
12¹⁵	12³⁰	¼	Drlg. — 7⁴⁵ 8. Circ Core Bbl.
12³⁰	1	½	Circ Samp
1	4	3	Drlg 9" Hole.
4	4³⁰	½	Circ to Core.
4³⁰	4⁴⁵	¼	Survey
4⁴⁵	5	¼	Hoist to Core
5	6	1	Install Valve on Casing Bowl

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.
16	STANDS DP		1449.28
—	SNGLS. DP		—
	D.C. OD		
12	6¼ OD		376.77
	RMR BODY OD		
	STB BODY OD		
	SUBS OD		
	BIT OR C.B.		59.37
	Kelly Down		29.58
	TOTAL		1920.00
WT OF STRING			56,000 LBS.
DRILLER			E. Mill
WEATHER CONDITIONS			Cold - 32° No Wind

BIT RECORD	
Drilling or Core Bit No.	4-6
TYPE	KOEBEL
SIZE	6⅛
NOZZ. SIZE	
SERIAL No.	4445
DEPTH IN	1896
DEPTH OUT	
FT. DRILLED	
FT. REAMED	
FT. CORED	24
CUM. HRS. RUN	7¾
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1896		24	1920		90	7-8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	Nil	7¼	25	7¾
PUMP No. 2	450	6½	35	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8⁰⁰	8¹⁵	¼	Rig Service & Check B.O.P.s
8¹⁵	4⁰⁰	7¾	Cutting & Core #6

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.
16	STANDS DP		1459.28
1	SNGLS. DP		30.76
	D.C. OD		
12	6¼ OD		371.77
	RMR BODY OD		
	STB BODY OD		
	SUBS OD		
	BIT OR C.B.		59.37
	Kelly Down		19.82
	TOTAL		1941.00
WT OF STRING			49,000 LBS.
DRILLER			Ed Nolan
WEATHER CONDITIONS			-30° No Wind

BIT RECORD	
Drilling or Core Bit No.	4-6
TYPE	KOEBEL
SIZE	6⅛
NOZZ. SIZE	
SERIAL No.	4440
DEPTH IN	1896
DEPTH OUT	1941
FT. DRILLED	
FT. REAMED	
FT. CORED	45
CUM. HRS. RUN	14¾
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1920		21	1941	Interval Cored 1896-1941	90	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	Nil	7¼	25	
PUMP No. 2	450	6½	35	

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	11⁰⁰	7	Cutting Core #6
11⁰⁰	12⁰⁰	1	Break Core Loose Pull out w/ Core Bbl

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.3	T	
VISC.	47	47	R	
W.L.-C.C.	7/32		I	
FLTR. CK.	6		P	
pH	9.5	9.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.3	10.3	10.3
VISC.	50	49	48	47
W.L.-C.C.	7.4	7.3	7.4	7.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.0	9.	9.	9
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.3	10.2	10.2	
VISC.	46	45	44	
W.L.-C.C.	7.6	7.8	7.2	
FLTR. CK.	2/32	2/32	2/32	
pH	9.0	9.0	9.6	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 20 DATE: JAN 11 '60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Corp | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills No. 1 | PROVINCE: A.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 1 4½ | TOOL JOINT 6" OD, TYPE THD. F.H. | DRILL PIPE GRADE E-2-3

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: Howe Cooke

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214P.
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			4 1/4
TRIPPING		7	1
RIG MAINTENANCE			1/4
RIG REPAIRS			1/2
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	8	8	1 3/4
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES	6 SIZE 1/16
FEET SLIPPED	0
FEET CUT OFF	0
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	912
CUMULATIVE TON MI. or TRIPS	112
NO. OF DAYS FROM SPUD	19
CUMULATIVE ROTATING HRS.	49
DAYS SINCE LAST ACCDNT.	30
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	74
DAY TOUR	146
EVENING TOUR	318

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
13	STANDS DP	1186.96 FT.	Drilling or Core Bit No.	4-5
2	SNGLS. DP	59.90 FT.	TYPE	Kobel
	D.C. OD	FT.	SIZE	6 1/8
12	D.C. OD	371.77 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	1659
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	12.00 FT.	FT. CORED	31
	TOTAL	1690 FT.	CUM. HRS. RUN	14 3/4
WT OF STRING	47M LBS.		CONDITION	IN.
DRILLER	E Hayne			
WEATHER CONDITIONS	-18 Cool			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1675		15	1690		80	8.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	450	6½	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1659	1/4							

From	To	Elapsed Time		REMARKS
12	8	8		@ CORING # 5

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.2	10.2	10.2	10
VISC.	50	50	50	50
W.L.-C.C.	7.2			7
FLTR. CK.	2/32			2/32
pH	9			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
13	STANDS DP	1186.96 FT.	Drilling or Core Bit No.	4-5
2	SNGLS. DP	59.90 FT.	TYPE	Hoffel
	D.C. OD	FT.	SIZE	6 1/8
12	6 1/4 OD	371.77 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	1659
	SUBS OD	FT.	DEPTH OUT	1704
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	26.00 FT.	FT. CORED	45
	TOTAL	1704.00 FT.	CUM. HRS. RUN	20½
WT OF STRING	47,000 LBS.		CONDITION	Good
DRILLER	E Mill			
WEATHER CONDITIONS	Cool -28°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1690		14	1704		85	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	N.L.	7 1/4	~~55~~	8 3/4
PUMP No. 2	450	6½	35	8 3/4

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8 00	1 45	5	3/4	CUTTING @ CORE # 5
1 45	3 00	1	1/4	PULL OUT W/CORE B.B.L.
3 00	4 00	1		RECOVER CORE & SERVICE B.B.L.
				CORED 5 1659 TO 1704
				REC 45 FT OF CORE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	10.1	10.2	10.1	
VISC.	50	50	48	
W.L.-C.C.	7.2	6.8	7.8	
FLTR. CK.	2/32	2/32	2/32	
pH	9.5	9.0	9.0	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
15	STANDS DP	1359.32 FT.	Drilling or Core Bit No.	7
2	SNGLS. DP	60.28 FT.	TYPE	OSC
	D.C. OD	FT.	SIZE	9"
12	6 1/4 OD	371.77 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	66031
	STB BODY OD	FT.	DEPTH IN	1659
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	106
		FT.	FT. REAMED	45
	Kelly Down	10.65 FT.	FT. CORED	
	TOTAL	1810.00 FT.	CUM. HRS. RUN	6
WT OF STRING	43,000 LBS.		CONDITION	IN
DRILLER	R. Nolan			
WEATHER CONDITIONS	LIGHT SNOW NO WIND -22°			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1659		45	1704	(REAMING) SHALE	180	10,000
1704	106		1810		160	20,000

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	625	7 1/4	54	6
PUMP No. 2	N.L.	6½	30	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4 00	4 15		1/4	RIG SERV
4 15	4 30		1/4	BREAK CORE BIT OFF STAND BBL BACK
4 30	5 30		1/2	WORK ON MUD LINE UNION. (TIGHTEN)
5 00	6 00	1		RUN IN W/ BIT # 7
6 00	7 45	1	3/4	REAM 6 1/8 TO 9" HOLE.
7 45		4	1/4	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	~~10.0~~	10.0	10.1	10.1
VISC.		45	44	45
W.L.-C.C.		7.6	7.6	7.2
FLTR. CK.		~~2/32~~	~~2/32~~	2/32
pH		9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	4 sx-lbs		
Q.X.	50 lbs		
Caustic	2 sx-lbs		

REPORT No. 19 DATE: JAN 10/60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO
CONTRACTOR: PETER HAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 6" OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: G. A. Brown
CONTRACTOR'S TOOL PUSHER: Doug Laben
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP CARDVIEW HILLS No. 1
PROVINCE: NWT

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5 J 55	0	598	Const	600 SX	2% CaCl

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6½	4¾	
TRIPPING			
RIG MAINTENANCE	¼	½	¼
RIG REPAIRS		½	
HOLE SURVEYS	½		
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	3¼	2¼	7¾
TOTAL HOURS	8	8.	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES: 6 SIZE: 1⅛
FEET SLIPPED: —
FEET CUT OFF: —
PRESENT LENGTH: —
TON MI. or TRIPS SINCE LAST CUT: 83
CUMULATIVE TON MI. or TRIPS: 83

NO. OF DAYS FROM SPUD: 18
CUMULATIVE ROTATING HRS.: 41¾
DAYS SINCE LAST ACCDNT.: 29
DRILLER ACCDNT. FREE DAYS:
MORNING TOUR: 317.
DAY TOUR: 73.
EVENING TOUR: 145

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
12	STANDS DP	1094.84 FT.	Drilling or Core Bit No.	7
	SNGLS. DP	✓ FT.	TYPE	OSC
	D.C. OD	FT.	SIZE	9"
12	6¼ OD	371.77 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	97688
	STB BODY OD	FT.	DEPTH IN	1221
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	210
		FT.	FT. REAMED	50
	Kelly Down	1334 FT.	FT. CORED	
	TOTAL	1480.00 FT.	CUM. HRS. RUN	8¼
WT OF STRING	110,000 LBS.		CONDITION	1A.

DRILLER: R. Florcan
WEATHER CONDITIONS: Light Snow No Wind -12°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1240		30	1270	SHALE.	180	8
1270	210		1480		160	16-20

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	600	7¼	54	7¼
PUMP No. 2	NIL	6½	30	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1300	0°							

From	To	Elapsed Time	REMARKS
1200	1215	¼	RIG SERV. CHECK BOP'S
1215	100	¾	REAM 6⅛ TO 9" HOLE.
100	600	5	DRILL 9" HOLE.
600	630	½	SURVEY W/ WIRE LINE.
630	800	1½	DRILL 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.5	9.5	9.5	9.5
VISC.	52	52	50	52
W.L.-C.C.	7.6	7.6	7.6	7.4
FLTR. CK.	2/32	2/32	2/32	2/32
pH	9.5	9.5	9.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	1248 FT.	Drilling or Core Bit No.	7
	SNGLS. DP	FT.	TYPE	OSC
	D.C. OD	FT.	SIZE	9"
	12 OD	371.77 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	97688
	STB BODY OD	FT.	DEPTH IN	1221
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	60 FT.	FT. DRILLED	288
		FT.	FT. REAMED	50
	Kelly Down	38.83 FT.	FT. CORED	
	TOTAL	1659 FT.	CUM. HRS. RUN	12
WT OF STRING	120M LBS.		CONDITION	FAIR

DRILLER: A Ford
WEATHER CONDITIONS: -8°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1480	179		1659		160	20.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	650	7¼	56	4¾
PUMP No. 2	NIL	6½	30	8.

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
7	9	1	DRLG
9	930	½	RIG SER & BOP CHECK
930	115	2 ¾	DRLG 9" HOLE.
115	2	¾	CIRC SAMPLE W/O ORDERS
2	3	1	HOIST OUT TO CORE. DMEAS.
3	330	½	PICK UP CORE BBL
330	4	½	SET BLOCK HOOK.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.5	9.7		
VISC.	50	50		
W.L.-C.C.	6.8			
FLTR. CK.	2/32			
pH	9.5	9.5		
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	25 lbs		
BX	50 lbs		
Desco	10 lbs		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
13	STANDS DP	1186.96 FT.	Drilling or Core Bit No.	4-5
1	SNGLS. DP	30.58 FT.	TYPE	HOFBEL
	D.C. OD	FT.	SIZE	6⅛
12	6¼ OD	371.77 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	44440
	STB BODY OD	FT.	DEPTH IN	1659
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	16.32 FT.	FT. CORED	16
	TOTAL	1675.00 FT.	CUM. HRS. RUN	6¾
WT OF STRING	41,000 LBS.		CONDITION	IN

DRILLER: E Mill
WEATHER CONDITIONS: Cold -22°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1659		16	1675		85	10-8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	NIL	7¼	22	6¾
PUMP No. 2	450	6½	35	7

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
400	415	¼	RIG SERVICE & CHECK B.O.P's
415	500	¾	RUN IN W/CORE B.B.L
500	513	¼	CIRC CORE B.B.L
513	1200	6 ¾	CUTTING & CORE # 5

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		10.4 / 10.5	10.2 / 10.5	10.2
VISC.		60	57	52
W.L.-C.C.		6.8	6.7	7.0
FLTR. CK.		2/32	2/32	2/32
pH		9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 18 DATE: JAN 9 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 6" OD TYPE THD. FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J.R. Brown
CONTRACTOR'S TOOL PUSHER: [illegible]

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5	0	598	CONST	600 SX	2% CACL
	55					

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE	1/4		
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	7¾	8	8
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.
NO. OF LINES | SIZE 1⅛
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT: 72
CUMULATIVE TON MI. or TRIPS: 72
CORRECTIONS
NO. OF DAYS FROM SPUD: 17 & NOT 18
CUMULATIVE ROTATING HRS.: 30½
DAYS SINCE LAST ACCDNT.: 28
DRILLER ACCDNT. FREE DAYS
MORNING TOUR: 316
DAY TOUR: 72
EVENING TOUR: 144

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
10	STANDS DP	910.43 FT.	Drilling or Core Bit No	H-4
2	SNGLS. DP	61.25 FT.	TYPE	KEEBLE
6	D.C. OD 6¼ OD	186.25 FT.	SIZE	6⅛
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	4440
	SUBS OD	2.63 FT.	DEPTH IN	1221
	BIT OR C.B.	59.37 FT.	DEPTH OUT	
		FT.	FT. DRILLED	
	Kelly Down	13.65 FT.	FT. REAMED	
	TOTAL	1234.00 FT.	FT. CORED	13
WT OF STRING		32,000 LBS.	CUM. HRS. RUN	6
DRILLER	Ed Nolan		CONDITION	IN
WEATHER CONDITIONS	LIGHT SNOW - 12 No WIND			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1221		13	1234		80	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	475	6½	35	6

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
1200	1215	1¼	RIG SERV CHECK BOP'S.
1215	1245	1½	PICK UP CORE BBL MAKE UP BIT CHECK BBL.
1245	130	¾	RUN IN W/ CORE BBL
130	200	1½	CIRC. CORE BBL
200	800	6	CUTTING CORE # 4.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		9.4	9.5	9.5
VISC.		50	50	50
W.L.-C.C.		7.4	7.2	7.2
FLTR. CK.		2/32	2/32	2/32
pH		9.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
11	STANDS DP	1082.61 FT.	Drilling or Core Bit No.	4-4
	SNGLS. DP	FT.	TYPE	HUGHES
6	D.C. OD 6¼ OD	186.25 FT.	SIZE	6⅛
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	4440
	SUBS OD	2.63 FT.	DEPTH IN	1221
4	BIT OR C.B.	59.37 FT.	DEPTH OUT	
		FT.	FT. DRILLED	
	Kelly Down	11.14 FT.	FT. REAMED	
	TOTAL	1261 FT.	FT. CORED	40
WT OF STRING		32.000 LBS.	CUM. HRS. RUN	14
DRILLER			CONDITION	IN
WEATHER CONDITIONS	-4 No WIND			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1234		27	1261	LIMESTONE	82	10.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	NIL	7¼	26	8
PUMP No. 2	550	6½	34	8.

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8	4	8	0 CORING # 4 1234 TO.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.5	9.5	9.3	9.4
VISC.	50	52	53	50
W.L.-C.C.	7.8		7.8	
FLTR. CK.	2/32		2/32	
pH	9.5		9.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	25#		
QX	50		
Gel	1000#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD		
9	STANDS DP	822.74 FT.	Drilling or Core Bit No.	4-4	7
1	SNGLS. DP	28.93 FT.	TYPE	HOBEL	ASC
	D.C. OD	FT.	SIZE	6⅛	9"
12	D.C. 6¼ OD	371.77 FT.	NOZZ. SIZE		1/16
	RMR BODY OD	FT.	SERIAL No.	4440	97688
	STB BODY OD	FT.	DEPTH IN	1221	1231
	SUBS OD	FT.	DEPTH OUT	1270	
	BIT OR C.B.	.60 FT.	FT. DRILLED		
		FT.	FT. REAMED		19
	Kelly Down	16.92 FT.	FT. CORED	49	
	TOTAL	1240.00 FT.	CUM. HRS. RUN	16½	1
WT OF STRING		110,000 LBS.	CONDITION	GOOD	IN
DRILLER	E. Mill				
WEATHER CONDITIONS	-8 LIGHT SNOW.				

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1261		CORED 9	1270	RECOVERED 49'	88	10
1221		REAMED 19	1240		180	8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	450	7¼	48	1
PUMP No. 2	550	6½	35	2½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
400	630	2 ½	CUTTING & CORE # 4
630	730	1	PULL OUT W/CORE B.B.L.
730	945	1 ¼	RECOVER CORE & STAND BACK B.B.L.
945	1015	1 ½	PICK UP 6 MORE D.C. & LAY DOWN 6 SINGLES
1015	1100	¾	RUN IN W/9" BIT.
1100	1200	1	REAMING 6¼" RAT HOLE TO 9" HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.4			
VISC.	50			
W.L.-C.C.	7.8			
FLTR. CK.	2/32			
pH	9.5			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 17
DATE: JAN 8, 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 6" OD
TYPE THD.: F H
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: G. R. Brown.
CONTRACTOR'S TOOL PUSHER: Norm Parker

LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: RO. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214D
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
DST #1		875'	915'			

Tool OPEN 1.15 AM 20 MIN INITIAL SHUT IN 30 MIN FLOW, SHUT IN 30 MINS REC 6' DRILLING MUD FHP 420# ISIP 525# FP 35#
DRILL 4 HRS REC 6' DRILLING MUD FHP 420# ISIP 525# FP 35#

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	1	5¾	
TRIPPING			
RIG MAINTENANCE		¼	¼
RIG REPAIRS		1	
HOLE SURVEYS		½	½
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS	7½		1½
TOTAL HOURS		8.5	

WIRE LINE RECORD

REEL NO. 1
NO. OF LINES 6 SIZE 1¼
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT 58
CUMULATIVE TON MI. or TRIPS 58

NO. OF DAYS FROM SPUD 12
CUMULATIVE ROTATING HRS. 29½
DAYS SINCE LAST ACCDNT. 27
DRILLER ACCDNT. FREE DAYS

MORNING TOUR 315
DAY TOUR 71
EVENING TOUR 14½

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
8	STANDS DP	727.64 FT.	Drilling or Core Bit No.	6
	SNGLS. DP	✓ FT.	TYPE	OSC1G
6	D.C. OD	FT.	SIZE	9"
	6¼ OD	186.25 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	90275
	STB BODY OD	FT.	DEPTH IN	905
	SUBS OD	2.63 FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	19
		FT.	FT. REAMED	10
	Kelly Down	17.65 FT.	FT. CORED	
	TOTAL	934.77 FT.	CUM. HRS. RUN	1½
WT OF STRING		28,000 LBS.	CONDITION	IN

DRILLER: B Holan
WEATHER CONDITIONS: Cool - 28° NO WIND

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
905	19	10	934		180	8,000

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	425	7¼	54	1½
PUMP No. 2	NIL	6½	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	12¹⁵	1/4	RIG SERV. CHECK BOPS
12¹⁵	12³⁰	1/4	MAKE UP HEAD & TEST TOOL
12³⁰	1³⁰	1	INITIAL SHUT IN, OPEN TOOL
1³⁰	2¹⁵	3/4	FINAL SHUT IN
2¹⁵	3⁰⁰	3/4	PULL OUT W/ DST #1
3⁰⁰	5¹⁵	2 1/4	BREAK DOWN PACKER CLEAN SAME
5¹⁵	6⁰⁰	3/4	RUN W/ BIT #6 TO DRILL AHEAD.
6⁰⁰	6³⁰	1/2	REAM SPIRAL HOLE FROM 860 TO 890.

6³⁰-7⁰⁰ REAM 6¼ TO 9" HOLE
7⁰⁰-8⁰⁰ DRILL 9" HOLE

MUD RECORD FSI 115#

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				9
VISC.				40
W.L.-C.C.				6.6
FLTR. CK.				2/32
pH				
SD. CONT.				trace

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
9	STANDS DP	818.69 FT.	Drilling or Core Bit No.	6
2	SNGLS. DP	61.69 FT.	TYPE	OSC-1G
	D.C. OD	FT.	SIZE	9"
	OD	186.25 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	90275
	STB BODY OD	FT.	DEPTH IN	905
	SUBS OD	2.63 FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	185
		FT.	FT. REAMED	10
	Kelly Down	30.55 FT.	FT. CORED	
	TOTAL	1100. FT.	CUM. HRS. RUN	7
WT OF STRING		LBS.	CONDITION	IN.

DRILLER: J Rayne
WEATHER CONDITIONS: -16 WARMER.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
934	166		1160		180	14-16

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	450	7¼	56	6¼
PUMP No. 2	NIL	6½	35	8.

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
957	⅛°							

From	To	Elapsed Time	REMARKS
7	7⁴⁵	3/4	DRILL 9" HOLE.
7¹⁵	9⁴⁵	1	WORK ON BOOMS OILER
9⁴⁵	10⁰⁰	1/4	RIG SERV & BOP CHECK
10⁰⁰	10³⁰	1/2	SURVEY @ 957 ⅛°
10³⁰	9	5 1/2	DRILLING 9" HOLE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9	9	9.1	9.2
VISC.	40	40	45	48
W.L.-C.C.	9.6			
FLTR. CK.	2/32			
pH	9.5		9.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	500#		
Diesel	10"		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
11	STANDS DP	1002.61 FT.	Drilling or Core Bit No.	6
	SNGLS. DP	FT.	TYPE	OSC-1G
	D.C. OD	FT.	SIZE	9"
6	6¼ OD	186.25 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	90275
	STB BODY OD	FT.	DEPTH IN	905
	SUBS OD	2.63 FT.	DEPTH OUT	1221
	BIT OR C.B.	.60 FT.	FT. DRILLED	306
		FT.	FT. REAMED	10
	Kelly Down	29.82 FT.	FT. CORED	
	TOTAL	1221.00 FT.	CUM. HRS. RUN	12¾
WT OF STRING		30,000 LBS.	CONDITION	

DRILLER: E Mill
WEATHER CONDITIONS: -2° HIGH SNOW NO WIND

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
1100	121		1221		180	18

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	450	7¼	55	6½
PUMP No. 2	—	6½	35	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
1170	⅛°							

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	1/4	RIG SERVICE & CHECH B.O.P's
4¹⁵	7³⁰	3	1/4 DRILLING 9" HOLE.
7³⁰	8⁰⁰		1/2 SURVEY ON WIRE LINE
8⁰⁰	10³⁰	2	1/2 DRILLING 9" HOLE
10³⁰	10⁴⁵		1/4 CIRC SAMPLE @ 1220'
10⁴⁵	11¹⁵		1/2 W.O. BOOMS.
11¹⁵	12⁴⁵		3/4 PULL OUT OF HOLE TO CORE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.3	9.4	9.4	
VISC.	48	47	48	
W.L.-C.C.	8.3		8.3	
FLTR. CK.	2/32		2/32	
pH	9.5		9.5	
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Caustic	25#		
Tannex	50#		

REPORT No. 16

DATE: JAN 7 / 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 6" OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: C. W. Brown
CONTRACTOR'S TOOL PUSHER: Wm Lowden

LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: R.O. CORP GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5 J55	0	598	CONST	600	2% CACL

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING	3/4	1 3/4	2
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE	7	1 1/4	
Reaming & Cleaning To Bottom		1/4	
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		4 1/4	5 3/4
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES	6 SIZE 1 1/8
FEET SLIPPED	—
FEET CUT OFF	—
PRESENT LENGTH	—
TON MI. or TRIPS SINCE LAST CUT	43
CUMULATIVE TON MI. or TRIPS	43

NO. OF DAYS FROM SPUD	11
CUMULATIVE ROTATING HRS.	16½
DAYS SINCE LAST ACCDNT.	26
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	314
DAY TOUR	70
EVENING TOUR	142

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
7	STANDS DP	635.78 FT.	Drilling or Core Bit No.	5
2	SNGLS. DP	61.03 FT.	TYPE	S3P
	D.C. OD	FT.	SIZE	9"
6	6 1/4 OD	186.25 FT.	NOZZ. SIZE	11/16
	RMR BODY OD	FT.	SERIAL No.	35 H936
	STB BODY OD	FT.	DEPTH IN	770
	SUBS OD	2.63 FT.	DEPTH OUT	
	BIT OR C.B.	.60 FT.	FT. DRILLED	125
		FT.	FT. REAMED	10
	Kelly Down	19.00 FT.	FT. CORED	
	TOTAL	905.39 FT.	CUM. HRS. RUN	6¼
WT OF STRING		28,000 LBS.	CONDITION	GOOD
DRILLER	Ed Nolan			
WEATHER CONDITIONS	Clear -30° No WIND			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
905			905			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	1425	7 1/4	54	7
PUMP No. 2	NIL	6½	35	8

DEVIATION RECORD: DEPTH 800 DEV. 1½° DIRECTION

From	To	Elapsed Time		REMARKS
1200	1215		1/4	RIG SERV CHECK BOP
1215	100		3/4	RUN IN TO CIRC.
100	800			CIRC. WAIT ON PARTS FOR CORE BBL & TEST TOOL, COND HOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		9.0	9.0	9.0
VISC.		43	38	42
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
7	STANDS DP	635.78 FT.	Drilling or Core Bit No.	4-3
0	SNGLS. DP	FT.	TYPE	HOC3GJ
	D.C. OD	FT.	SIZE	6 1/8
6	6 1/4 OD	186.25 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	905
	SUBS OD	2.63 FT.	DEPTH OUT	
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	20.89 FT.	FT. CORED	
	TOTAL	905. FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	Ille
DRILLER	L Layne			
WEATHER CONDITIONS	-30° No WIND			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
905	—	—	905			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD: DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
8	8 15		1/4	Rig Ser & BOP CHECK
8 15	9 30	1	1/4	CIRC W/O PARTS FOR TEST TOOL & CORE BBL
9 30	10 15		3/4	HOIST OUT TO CORE
10 15	11 15	1		PICK UP CORE BBL to BREAK CORE BBL
11 15	2 30	3	1/4	W/O PARTS FOR CORE BBL.
2 30	2 45		1/4	INSTALL SEAL RING & NEW CATCHER.
2 45	3 45	1		RUN IN TO CUT CORE NO 3.
3 45	4		1/4	CIRC CORE BBL

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9			
VISC.	44			
W.L.-C.C.	9.4			
FLTR. CK.	½			
pH	9.5			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	300#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
7	STANDS DP	635.78 FT.	Drilling or Core Bit No.	4-3
	SNGLS. DP	FT.	TYPE	HOC3GJ
	D.C. OD	FT.	SIZE	6 1/8
6	6 1/4 OD	186.25 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	4440
	STB BODY OD	FT.	DEPTH IN	905
	SUBS OD	2.63 FT.	DEPTH OUT	915
	BIT OR C.B.	59.37 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	29.49 FT.	FT. CORED	10
	TOTAL	915.60 FT.	CUM. HRS. RUN	1¾
WT OF STRING		30,000 LBS.	CONDITION	GOOD
DRILLER	P Mill			
WEATHER CONDITIONS	Cold -30			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
905		10	915		75	7-8

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2	400	6½	35	1¾

DEVIATION RECORD: DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION

From	To	Elapsed Time		REMARKS
400	415		1/4	RIG SERVICE & CHECK B.O.P.'S
412	600	1	3/4	CUTTING @ CORE #3
600	700	1		PULL OUT W/CORE B.B.L.
700	800	1		RECOVER CORE & STAND BACK B.BL SERVICE SAME
800	1100	3		PICK UP & MAKE UP PACKER.
1100	1200	1		RUN IN W/ PACKER.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9			
VISC.	44			
W.L.-C.C.	9.4			
FLTR. CK.	3/32			
pH	9.5			
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

TRIP

REPORT No. 15 DATE: JAN 6 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: H2
TOOL JOINT: 6" OD TYPE THD. FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE:
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54.5 J55	0	598	CONF	600 SX	2% CACL

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6		
TRIPPING			3/4
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS	1/2		
CONDITIONING MUD		7¾	
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	1¼		7
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES	6 SIZE 1⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	30
CUMULATIVE TON MI. or TRIPS	30
NO. OF DAYS FROM SPUD	10
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	25
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	313
DAY TOUR	169
EVENING TOUR	141

MORNING TOUR

NO.	DRILLING ASSEMBLY		
1	STANDS DP	635.78	FT.
2	SNGLS. DP	61.03	FT.
6	D.C. OD		FT.
	6¼ OD	186.25	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	2.63	FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	19.00	FT.
	TOTAL	905.39	FT.
WT OF STRING		28,000	LBS.
DRILLER	Ed Phelan		
WEATHER CONDITIONS	Cool - 32.		

BIT RECORD

Drilling or Core Bit No.	5
TYPE	S3P
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	354036
DEPTH IN	770
DEPTH OUT	
FT. DRILLED	125
FT. REAMED	10
FT. CORED	
CUM. HRS. RUN	6¼
CONDITION	1N

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
770	125	10	905	SHALE-SAND	180	10-12
				CHERT - STRINGERS		

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	425	7¼	54	7½
PUMP No. 2	375	6½	51	½
	NIL		NO	7½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
800	1½°							

From	To	Elapsed Time	REMARKS
12⁰⁰	12¹⁵	1/4	RIG SERV CHECK BOP'S
12¹⁵	12³⁰	1/4	REAM 6¼ TO 9" HOLE
12³⁰	1¹⁵	3/4	DRILL 9" HOLE
1¹⁵	1⁴⁵	1/2	SURVEY W/ WIRE LINE
1⁴⁵	6⁴⁵	5	DRILL 9" HOLE
6⁴⁵	7³⁰	3/4	CIRC SAMPLE WAIT ON ORDERS
7³⁰	7⁴⁵	1/4	DRILL 9" HOLE
7⁴⁵	8⁰⁰	1/4	CIRC SAMPLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	8.9	8	—	8.9
VISC.	40	46	47	42
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	400 lbs.		

DAY TOUR

NO.	DRILLING ASSEMBLY		
1	STANDS DP	635.78	FT.
2	SNGLS. DP	61.03	FT.
	D.C. OD		FT.
	OD	186.25	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	2.63	FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	19	FT.
	TOTAL	905	FT.
WT OF STRING		28000	LBS.
DRILLER	G. Byrne		
WEATHER CONDITIONS	-32°		

BIT RECORD

Drilling or Core Bit No.	5
TYPE	S3P
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	354036
DEPTH IN	770
DEPTH OUT	
FT. DRILLED	125
FT. REAMED	10
FT. CORED	
CUM. HRS. RUN	6¼
CONDITION	1N

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
0	8³⁰		RIG SER & BOP CHECK.
8³⁰	4		CIRC W/O PARTS FOR CORE BBL & TEST TOOL COND MUD.
			RIG'S GROUNDED BECAUSE OF FOGGY WEATHER.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.1	9	9	9
VISC.	45	190	60	54
W.L.-C.C.	11.5		96	
FLTR. CK.	2/32		2/32	
pH	10.5	10.5	9.5	9.5
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	1000#		
Caustic	25#		
QX	50#		
Base	40#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
7	STANDS DP	635.78	FT.
2	SNGLS. DP	61.03	FT.
	D.C. OD		FT.
6	6¼ OD	186.25	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	2.63	FT.
	BIT OR C.B.	.60	FT.
			FT.
	Kelly Down	19.00	FT.
	TOTAL	905.00	FT.
WT OF STRING			LBS.
DRILLER	E. Mill		
WEATHER CONDITIONS	Cold -16		

BIT RECORD

Drilling or Core Bit No.	5
TYPE	S3P
SIZE	9"
NOZZ. SIZE	11/16
SERIAL No.	354036
DEPTH IN	770
DEPTH OUT	
FT. DRILLED	125
FT. REAMED	10
FT. CORED	
CUM. HRS. RUN	6¼
CONDITION	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
—	—	—	—			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹³	1/4	RIG SERVICE & CHECK B.O.P.'S.
4¹³	5⁴⁰	3/4	PULL OUT OF HOLE.
5⁴⁰	12⁰⁰	7	DRILL MOUSE HOLE & LAY FLARE LINE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 14

DATE: JAN 5 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: D 4½
TOOL JOINT: 6" OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
LOCATION LSD. SEC. TWP. RGE. W.:
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
OPERATOR'S REPRESENTATIVE:
CONTRACTOR'S TOOL PUSHER: Doug Lawless

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3½		
TRIPPING		½	4½
RIG MAINTENANCE	1/4	½	¼
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD	1¾	¾	
CONDITIONING HOLE	1	¼	
Reaming & Cleaning To Bottom	1/4		
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	1/2	1¾	1½
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 1
NO. OF LINES 6 SIZE 1 1/8
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT 25
CUMULATIVE TON MI. or TRIPS 25
NO. OF DAYS FROM SPUD 9
CUMULATIVE ROTATING HRS.
DAYS SINCE LAST ACCDNT. 2H
DRILLER ACCDNT. FREE DAYS
MORNING TOUR 312
DAY TOUR 68
EVENING TOUR 140

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
6	STANDS DP	543.76 FT.	Drilling or Core Bit No.	3 B
	SNGLS. DP	V FT.	TYPE	S3P
6	D.C. OD 6¼ OD	186.25 FT.	SIZE	12¼
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	321489
	SUBS OD	1.96 FT.	DEPTH IN	620
	BIT OR C.B.	FT.	DEPTH OUT	770
		2.63 FT.	FT. DRILLED	150
	Kelly Down	3550 FT.	FT. REAMED	
	TOTAL	770.00 FT.	FT. CORED	
WT OF STRING		26,000 LBS.	CUM. HRS. RUN	3½
DRILLER	M. Nolan		CONDITION	GOOD
WEATHER CONDITIONS	Clear Cold -8			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
670	100		770	SHALE	180	8+10	PUMP No. 1	400	7¼	54	½
							PUMP No. 2	375	6½	51	4½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
1200	1215		¼	RIG SERV.
1215	200	1	¾	BUILDING VOLUME MIXING GEL
200	215		1/4	CLEAN 20' TO BOTTOM
215	545	3	1½	DRILL 12¼" HOLE
545	630		¾	CIRC TO CLEAN HOLE FOR CORING
630	730	1		PULL OUT TO CORE HOLE WAS TIGHT MEASURE PIPE
730	800		½	PICKING UP CORE BBL

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.		38	43	
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	6000		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
5	STANDS DP	453.24 FT.	Drilling or Core Bit No.	4-1
2	SNGLS. DP	60.02 FT.	TYPE	O KOEBEL
6	D.C. OD OD	186.25 FT.	SIZE	6⅛
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	4440
	SUBS OD	2.63 FT.	DEPTH IN	770
	BIT OR C.B.	59.37 FT.	DEPTH OUT	776
		FT.	FT. DRILLED	6
	Kelly Down	14.48 FT.	FT. REAMED	
	TOTAL	776. FT.	FT. CORED	6
WT OF STRING		28000. LBS.	CUM. HRS. RUN	3 3/4
DRILLER	L Payne.		CONDITION	HOISTING.
WEATHER CONDITIONS	COLD - 21			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
770		6	776		72	6-8	PUMP No. 1	40	7¼	32	8
							PUMP No. 2	400	6½	35	To 8. CORE

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8	815		¼	RIG SER.
815	830		¼	BOP CHECK.
830	1130	3		PICK UP TO CORE #1 BBL
1130	12		½	RUNNING TO CUT CORE #1
12	1215		¼	CIRC CORE BBL.
1215	4.	3	¾	CUTTING CORE #1

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		9.1	9.1	9
VISC.		53	50	45
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
6	STANDS DP	543.76 FT.	Drilling or Core Bit No.	4-2
	SNGLS. DP	FT.	TYPE	O KOEBEL S3P
	D.C. OD	FT.	SIZE	6⅛ 9"
6	6¼ OD	186.25 FT.	NOZZ. SIZE	1/16
	RMR BODY OD	FT.	SERIAL No.	4440 354936
	STB BODY OD	FT.	DEPTH IN	776
	SUBS OD	2.63 FT.	DEPTH OUT	780
	BIT OR C.B.	.60 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	23.76 FT.	FT. CORED	4
	TOTAL	770.00 FT.	CUM. HRS. RUN	1½.
WT OF STRING		28,000 LBS.	CONDITION	GOOD
DRILLER	E. Mill			
WEATHER CONDITIONS	COLD - 30			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
776		4	780		80	6-8	PUMP No. 1		7¼		
							PUMP No. 2	400	6½	35	1½

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
400	415		¼	RIG SERVICE
415	615	2		PULL OUT W/CORE B.BL. & RECOVER CORE.
615	720	1	¼	RUN IN W/CORE B.BL & CLEAN OUT TO BOTTOM.
720	900	1	½	CUTTING & CORE #2
900	1100	2		PULL OUT W/CORE B.BL. RECOVER CORE & STAND BACK B.BL.
1100	1200	1		RUN IN W/7" BIT & CLEAN OUT TO BOTTOM.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	9.0	8.9		
VISC.	44	43		
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 13

DATE: JAN 4 1960

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: D 4½
TOOL JOINT: 6" OD
TYPE THD.: FH
DRILL PIPE GRADE: 2-3
OPERATOR'S REPRESENTATIVE: J. P. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

LOCATION LSD. — SEC. — TWP. — RGE. — W. —
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: NWT

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT	8.	8.	6¼
MISCELLANEOUS			6¾
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES 6 SIZE	1⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	8
CUMULATIVE ROTATING HRS.	8
DAYS SINCE LAST ACCDNT.	23
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	311
DAY TOUR	67.
EVENING TOUR	139

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
	WT OF STRING	LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E Phelan
WEATHER CONDITIONS: Cool — 18

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
1200	800	8 00	HEADING UP
			PRIME PUMPS FILL MUD TANKS

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
3	STANDS DP	272.30
2	SNGLS. DP	61.70
	D.C. OD	
	OD	186.25
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	1.96
	BIT OR C.B.	
	SUB	2.63
	Kelly Down	34.16
	TOTAL	559
	WT OF STRING	23,000 LBS.

BIT RECORD: Drilling or Core Bit No. 3B. | TYPE S8P. | SIZE 12¼ | NOZZ. SIZE — | SERIAL No. 321469 | DEPTH IN 620 | DEPTH OUT 6 | FT. DRILLED 50 | FT. REAMED | FT. CORED | CUM. HRS. RUN 2¼ | CONDITION 1W

DRILLER: L Payne
WEATHER CONDITIONS: Cool — 20

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
620	—				90	6.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	200	7¼	50	¾
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
6	9	1	FINISH HEAD UP.
9	11⁴⁵	2 ¾	PRESSURE BLIND RAMS LEAK AROUND PACKER
			REPAIRED SAME.
11⁴⁵	12	¼	PRESSURE BLIND RAMS 1000PSI OK.
12	1	1	TRIP IN TO DRILL OUT.
1	2	1	DISPLACE MUD TO WATER.
2	3	1	PRESSURE 4½ OK.
3	3³⁰	½	PRESSURE HYDRIL OK. 3³⁰ START DRILL OUT.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
6	6¼ OD	186.25
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	1.96
	BIT OR C.B.	
	SUB	2.63
	Kelly Down	34.25
	TOTAL	624.00
	WT OF STRING	23,000 LBS.

BIT RECORD: Drilling or Core Bit No. 3B | TYPE S3T | SIZE 12¼ | NOZZ. SIZE | SERIAL No. 321469 | DEPTH IN 620 | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E. Hill
WEATHER CONDITIONS: Cool. — 28°

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
670					90	6

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	200	7¼	50	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4⁰⁰	4¹⁵	¼	RIG SERVICE
4¹⁵	10³⁰	6 ¼	PULL OUT PLUG, CEMENT & SHOE
			DRAIN MUD TANKS & DISPLACE HOLE TO WATER.
10³⁰	12⁰⁰	1 ½	PUMP WATER FROM LAKE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 12

DATE: JAN 3 1960

DAILY DRILLING REPORT

OPERATOR: Bighpie Oil Co
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5 3/4 OD
TYPE THD.: F.H
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. R. Brown.
CONTRACTOR'S TOOL PUSHER: Doug Parker

LOCATION LSD. SEC. TWP. RGE. W.:
WELL NAME: BRANDVIEW Hills No. 1
PROVINCE: N.W.T.

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT	8	8	8
HEADING UP AND DRILLING CUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES	4 SIZE 1½
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	7
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	22.
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	138
DAY TOUR	310
EVENING TOUR	66.

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	FT.
	SNGLS. DP	FT.
	D.C. OD	FT.
	OD	FT.
	RMR BODY OD	FT.
	STB BODY OD	FT.
	SUBS OD	FT.
	BIT OR C.B.	FT.
		FT.
	Kelly Down	FT.
	TOTAL	FT.
	WT OF STRING	LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E Mill
WEATHER CONDITIONS: Cool -12.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12:00	8:00	8 00	W. O. C.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	FT.
	SNGLS. DP	FT.
	D.C. OD	FT.
	OD	FT.
	RMR BODY OD	FT.
	STB BODY OD	FT.
	SUBS OD	FT.
	BIT OR C.B.	FT.
		FT.
	Kelly Down	FT.
	TOTAL	FT.
	WT OF STRING	LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: R Nolan
WEATHER CONDITIONS: Cool - 5.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
670			670			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	4:00	8 00	W.O.C.
			SLACKED OFF @ 10.00 AM.
			BACK LANDING JOINT OUT
			WELDER WELDING TWO 13 3/8" CASING
			NIPPLES, TOGETHER. TO RAISE BOP'S
			TO PROPER LEVEL, BEFORE 8 5/8 CASG. IS RUN.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	FT.
	SNGLS. DP	FT.
	D.C. OD	FT.
	OD	FT.
	RMR BODY OD	FT.
	STB BODY OD	FT.
	SUBS OD	FT.
	BIT OR C.B.	FT.
		FT.
	Kelly Down	FT.
	TOTAL	FT.
	WT OF STRING	LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER:
WEATHER CONDITIONS: Cool - 5

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4	5:30	1 ½	WELD ON CASG RISER NIPPLE.
5:30	6	½	CUT CASG
6		6	HEAD OF BOP EQUIP.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 11

DATE: JAN 2, 60

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO.: 16 | DRILL PIPE STRING NO. SIZE: 4½ | TOOL JOINT: 5 3/4 OD | TYPE THD.: F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. W. Brown | CONTRACTOR'S TOOL PUSHER: Hank Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT	8	8	
HEADING UP AND DRILLING CUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 6 SIZE 6 1/4	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	6
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	21
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	137
DAY TOUR	309
EVENING TOUR	65

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
	WT OF STRING	LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: E. Mill

WEATHER CONDITIONS: Cold -38

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12:00	8:00			W. O. C.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
	WT OF STRING	LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: R. Holan

WEATHER CONDITIONS: Cold. Windy - 35.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
			670			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	4:00	8		W. O.C.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.
	STANDS DP	
	SNGLS. DP	
	D.C. OD	
	OD	
	RMR BODY OD	
	STB BODY OD	
	SUBS OD	
	BIT OR C.B.	
	Kelly Down	
	TOTAL	
	WT OF STRING	LBS.

BIT RECORD: Drilling or Core Bit No. | TYPE | SIZE | NOZZ. SIZE | SERIAL No. | DEPTH IN | DEPTH OUT | FT. DRILLED | FT. REAMED | FT. CORED | CUM. HRS. RUN | CONDITION

DRILLER: [illegible]

WEATHER CONDITIONS: Windy - 20.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4	12	8		W/O/C

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 10 DATE: JAN 1, 60

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Co
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾ OD
TYPE THD.: F.H
DRILL PIPE GRADE:
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: Grand View Hills
No.: 1
PROVINCE: N.W.T.
OPERATOR'S REPRESENTATIVE: J.B. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING	8		
WAITING ON CEMENT	6¼		8
HEADING UP AND DRILLING OUT			
MISCELLANEOUS		1	
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO. 1
NO. OF LINES 6 SIZE 1/16"
FEET SLIPPED
FEET CUT OFF
PRESENT LENGTH
TON MI. or TRIPS SINCE LAST CUT
CUMULATIVE TON MI. or TRIPS

NO. OF DAYS FROM SPUD: 6
CUMULATIVE ROTATING HRS.: 47¾
DAYS SINCE LAST ACCDNT.: 20
DRILLER ACCDNT. FREE DAYS
MORNING TOUR: 136
DAY TOUR:
EVENING TOUR: 65

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.
5	STANDS DP	453.24	FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
6	6¾ OD	186.25	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
	Sub	2.63	FT.
	Kelly Down	25.92	FT.
	TOTAL	670.00	FT.
WT OF STRING			LBS.

BIT RECORD

Drilling or Core Bit No.	
TYPE	
SIZE	
NOZZ. SIZE	
SERIAL No.	
DEPTH IN	
DEPTH OUT	
FT. DRILLED	
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	
CONDITION	

DRILLER: E. Mill
WEATHER CONDITIONS: Cool -18

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
670		—	670			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12⁰⁰	4⁴⁵	4 ¾	Running Casing
4⁴⁵	6⁴³	2	Circ to Run Cement.
6⁴⁵	8⁰⁹	1 ¼	Mixing Cement
			Run 18 Jts 13 3/8" Surface Csg Landed
			@ 598.00 KB 54# H-40 J55 ✓
			Cemented w/ 600 Sx Const Cmt
			w 1400# CaCl²

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
	OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	Kelly Down		FT.
	TOTAL		FT.
WT OF STRING			LBS.

BIT RECORD

Drilling or Core Bit No.	
TYPE	
SIZE	
NOZZ. SIZE	
SERIAL No.	
DEPTH IN	
DEPTH OUT	
FT. DRILLED	
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	
CONDITION	

DRILLER: H. Holcan
WEATHER CONDITIONS: Cold Windy -15.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
			670.			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
6⁰⁰	8⁴⁵		Mixing Cement
8⁴⁵	9⁰⁰		Pump Plug
9⁰⁰	4⁰⁰		W.O.C.
			Drain Pumps, Clean Mud Tanks
			Clean Cement & Mud off Matting,
			Cleaning & Clear out.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.
	STANDS DP		FT.
	SNGLS. DP		FT.
	D.C. OD		FT.
	OD		FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD		FT.
	BIT OR C.B.		FT.
			FT.
	Kelly Down		FT.
	TOTAL		FT.
WT OF STRING			LBS.

BIT RECORD

Drilling or Core Bit No.	
TYPE	
SIZE	
NOZZ. SIZE	
SERIAL No.	
DEPTH IN	
DEPTH OUT	
FT. DRILLED	
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	
CONDITION	

DRILLER: L. Hayes
WEATHER CONDITIONS: Cold -38

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4	12		W.O.C.
			Happy New Year.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 9

DATE: Dec 31, 59

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO
LOCATION LSD. SEC. TWP. RGE. W.
WELL NAME: GRANDVIEW HILLS No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO. 16
DRILL PIPE STRING NO. SIZE 4½
TOOL JOINT 5¾ OD
TYPE THD. F.H.
DRILL PIPE GRADE
OPERATOR'S REPRESENTATIVE: J. R. Brown
CONTRACTOR'S TOOL PUSHER: Don Lanoie

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
13⅜	54-H40	0	598	B.P. Regul.	600	1400# CaCl2.

PLUG DOWN 9.00 A.M. DEC 31ST. BUMPED W/ 1000#

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING	1¼		
RIG MAINTENANCE	¼	¼	
RIG REPAIRS	¼	¾	
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			6
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	6¼	4	2
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES	8 SIZE 1⅛
FEET SLIPPED	—
FEET CUT OFF	—
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	

NO. OF DAYS FROM SPUD	5
CUMULATIVE ROTATING HRS.	47¾
DAYS SINCE LAST ACCDNT.	19
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	135
DAY TOUR	
EVENING TOUR	164

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
5	STANDS DP	463.24 FT.	Drilling or Core Bit No.	REAMER 2-A
	SNGLS. DP	FT.	TYPE	REED S3P
	D.C. OD	FT.	SIZE	17½ 12¼
6	D.C. 6¼ OD	186.25 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	B956 321469
	STB BODY OD	FT.	DEPTH IN	42 620
	SUBS OD	1.96 FT.	DEPTH OUT	610
	BIT OR C.B.	FT.	FT. DRILLED	50
	Sub	2.63 FT.	FT. REAMED	568
	Kelly Down	25.92 FT.	FT. CORED	
	TOTAL	670.00 FT.	CUM. HRS. RUN	24½ 2¼
WT OF STRING		25,000 LBS.	CONDITION	FAIR IN
DRILLER	E. Mill			
WEATHER CONDITIONS	Cool +10.			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
575		35	610		180	10-12
620	50		670		180	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	350	7¼	53	
PUMP No. 2	—	6½	40	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12:00	12:15		¼	RIG SERVICE
12:15	3:30	3	¼	REAMING 12¼" TO 17½" S.H.
3:30	4:00		½	CIRC. TO CLEAN OUT HOLE
4:00	5:13	1	¼	PULL OUT W/REAMER & RUN IN W/12¼" BIT.
5:13	5:30		¼	CLEAN OUT TO BOTTOM.
5:30	7:45	2	¼	DRILLING 12¼" HOLE.
7:45	8:00		¼	WORK ON SWIVEL

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.	59	60	68	67
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
5	STANDS DP	463.24 FT.	Drilling or Core Bit No.	2
	SNGLS. DP	FT.	TYPE	S3P
	D.C. OD	FT.	SIZE	12¼
6	D.C. 6¼ OD	186.25 FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	321469
	STB BODY OD	FT.	DEPTH IN	620
	SUBS OD	1.96 FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	50
	SUB	2.63 FT.	FT. REAMED	
	Kelly Down	25.92 FT.	FT. CORED	
	TOTAL	670.00 FT.	CUM. HRS. RUN	2¼
WT OF STRING		25,000 LBS.	CONDITION	GOOD
DRILLER	D. Nolan			
WEATHER CONDITIONS	Mild			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
670			670			

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8:00	8:15		¼	RIG SERV.
8:15	12:00	3	¾	INSTALL NEW PACKING IN SWIVEL CHECK CROWN FOR ALIGMENT. ON SWIVEL
12:00	1:00		1	CIRC HOLE. WAIT FOR LOGGER
1:00	1:30		½	PULL OUT TO LOGG
1:30	2:00	2	½	RIG TO LOG & LOGGING

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	
DRILLER				
WEATHER CONDITIONS	Cool			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4	5:30	1	½	LOGGING
5:30	6		½	TEAR OUT LOG EQUIP.
6	6:45		¾	RUN IN. TO CLEAN FOR CASG.
6:45	8	1	¼	CIRC & REAM 25' TO BOTTOM
8	8:45		¾	HOIST FOR CASG.
8:45	9:30		¾	RIG FOR CASG.
9:30	12	2	½	RAN CASG.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.		54		
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 8 DATE: DEC 30, 59

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Co.
LOCATION: LSD. SEC. TWP. RGE. W.
WELL NAME: Grandview Hills No. 1
PROVINCE: N.W.T.
CONTRACTOR: PETER BAWDEN DRILLING LIMITED
RIG NO.: 16
DRILL PIPE STRING NO. SIZE: 4½
TOOL JOINT: 5¾" OD; TYPE THD F.H
DRILL PIPE GRADE:
OPERATOR'S REPRESENTATIVE: J. B. Brown
CONTRACTOR'S TOOL PUSHER: Doug Parker

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			2¼
RIG MAINTENANCE	¼	¼	¼
RIG REPAIRS		2	
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	5¾	5¼	5½
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	1
NO. OF LINES 6 SIZE	1⅛
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	4
CUMULATIVE ROTATING HRS.	43¼
DAYS SINCE LAST ACCDNT.	18
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	6 3

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
2	STANDS DP	180.60 FT.	Drilling or Core Bit No.	Reamer
	SNGLS. DP	FT.	TYPE	Reed
	D.C. OD	FT.	SIZE	17½
6	6¼ OD	186.26 FT.	NOZZ. SIZE	
	RMR BODY 8" OD	2.43 FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	42
	SUBS OD	1.96 FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
	3-2	2.63 FT.	FT. REAMED	363
	Kelly Down	35.13 FT.	FT. CORED	
	TOTAL	405.00 FT.	CUM. HRS. RUN	13
WT OF STRING		22,000 LBS.	CONDITION	Run
DRILLER	E. Mill			
WEATHER CONDITIONS	Cool — 10 Windy			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
263		142	405		140	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	250	7¼	52	6¾
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	Rig Service
12¹⁵	1⁰⁰	1		Reaming To 17½" Hole
1¹⁵	1⁴⁵		½	Work Pipe Hole Tight
1⁴⁵	2¹⁵		½	Lay Down Two Singles & Pick Up 1st. D.P.
2¹⁵	7⁰⁰	4	¾	Reaming To 17½" Hole
7⁰⁰	7³⁰		½	Lay Down Two Singles & Pick Up 1st. D.P.
7³⁰	8⁰⁰		½	Reaming To 17½" Hole

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.	60	58	60	55
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1700		

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
2	STANDS DP	180.60 FT.	Drilling or Core Bit No.	Reamer
2	SNGLS. DP	61.27 FT.	TYPE	Reed
6	D.C. OD 6¼ OD	186.25 FT.	SIZE	17½
	RMR BODY OD	2.43 FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	
	SUBS OD	1.96 FT.	DEPTH IN	42
	BIT OR C.B.	FT.	DEPTH OUT	
	SUB	2.63 FT.	FT. DRILLED	
	Kelly Down	23.65 FT.	FT. REAMED	413
	TOTAL	455.02 FT.	FT. CORED	
WT OF STRING		22,000 LBS.	CUM. HRS. RUN	16¾
DRILLER	A. Nolan		CONDITION	In.
WEATHER CONDITIONS	Cold — 18			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
405		50	455		180	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	250	7¼	52	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	Rig Service
8¹⁵	11⁴⁵	3	½	Ream 12¼ To 17½" S.H.
11⁴⁵	1⁰⁰	1	¼	Pull Out To Check Reamer Clean Sand
1⁰⁰	3⁰⁰	2		Change Unions On Swivel To Kelly Hose
3⁰⁰	3⁴⁵		¾	Run In W/ Reamer. Hole Tight @ 225 To 255.
3⁴⁵	4⁰⁰		¼	Ream. 12¼" To 17½" S.H.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.	56	60		
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	1400 #		

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
4	STANDS DP	363.40 FT.	Drilling or Core Bit No.	1A Reamer
	SNGLS. DP	FT.	TYPE	OSC3 Reed
6	D.C. OD 6¼ OD	186.25 FT.	SIZE	12¼ 17½
	RMR BODY 8" OD	2.43 FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	27866
	SUBS OD	1.96 FT.	DEPTH IN	To 48
	BIT OR C.B.	FT.	DEPTH OUT	Pilot
	6-3	2.63 FT.	FT. DRILLED	Ream.
	Kelly Down	18.33 FT.	FT. REAMED	
	TOTAL	575 FT.	FT. CORED	
WT OF STRING		25,000 LBS.	CUM. HRS. RUN	22¼
DRILLER	L. Hayek		CONDITION	In
WEATHER CONDITIONS	Cool — 10			

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
455		120	575		180	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	360	7¼	52	5½
PUMP No. 2	N.L.	6½	40	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4	4¹⁵		¼	Rig Ser.
4¹⁵	9	4	¾	Reaming 12¼ To 17½" S.H.
9	11⁵		2¼	Trip To Clean Reamer
11⁵	12		¾	Reaming.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.	58	58	60	58
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 7 DATE: Dec 29, 59

DAILY DRILLING REPORT

OPERATOR: Bitchfield Oil Co. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grandview Hills | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT OD TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown. | CONTRACTOR'S TOOL PUSHER: Norm Parker

PUMPS No.	MANUFACTURER	TYPE
1.	Oilwell	2H P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3¼		
TRIPPING	3¾	1	
RIG MAINTENANCE	¼	11¼	¼
RIG REPAIRS			¾
HOLE SURVEYS	½		
CONDITIONING MUD		2½	
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			S.H.
MISCELLANEOUS	¼	4¼	7
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 16 SIZE 6¼	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

MORNING TOUR

NO.	DRILLING ASSEMBLY		
4	STANDS DP	363.40	FT.
1	SNGLS. DP	30.24	FT.
	D.C. OD		FT.
6	6¼ OD	186.25	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
CHANGE OVER		2.63	FT.
	Kelly Down	35.52	FT.
	TOTAL	620.00	FT.
WT OF STRING		25,000	LBS.
DRILLER: E. Mill			
WEATHER CONDITIONS: Cold −30			

BIT RECORD		
Drilling or Core Bit No.	1-A	
TYPE	OSC-3	
SIZE	12¼	
NOZZ. SIZE		
SERIAL No.	7786	
DEPTH IN	42	
DEPTH OUT	620	
FT. DRILLED	578	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	21	
CONDITION		

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
479	1.11		620		180	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	350	7¼	52	
PUMP No. 2				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	500	⅞°		620	7/80				

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	Rig Service
12¹⁵	12³⁰		¼	Work Mud Ring
12³⁰	1³⁰	1		Drilling 12¼" Surface Hole
1³⁰	1⁴⁵		¼	Survey
1⁴⁵	5¹²	3	½	Trip To Check Bit Very Tight Hole
5¹²	7³⁰	2	¼	Drilling 12¼" Surface Hole
7³⁰	7⁴⁵		¼	Survey
7⁴⁵	8⁰⁰		¼	Pull Out To Pick up Reamer.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				58
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Gel	700#		

DAY TOUR

NO.	DRILLING ASSEMBLY		
	STANDS DP		FT.
2	SNGLS. DP	60.03	FT.
	D.C. OD	—	FT.
	OD		FT.
	RMR BODY 8" OD	2.43	FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
	SUB	4.03	FT.
	Kelly Down	39.65	FT.
	TOTAL	108.13	FT.
WT OF STRING		1,000	LBS.
DRILLER: H. Holan			
WEATHER CONDITIONS: CLEAR COLD −25.			

BIT RECORD		
Drilling or Core Bit No.	1A	REAMER
TYPE	OSC-3	REED
SIZE	12¼	17½
NOZZ. SIZE		
SERIAL No.	7786	R456
DEPTH IN	RR	42
DEPTH OUT		
FT. DRILLED		
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	21	
CONDITION	FAIR	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
42		66'	108		180	2.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	175	7¼	52	
PUMP No. 2	0	6½	47	8

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	Rig Serv.
8¹⁵	9¹⁵	1		Pull out To Run Reamer Stand Back Collars
9¹⁵	10¹⁵	1		Pick up Make Reamer
10¹⁵	11⁰⁰		¾	Weld 12¼ Bit To Reamer
11⁰⁰	12⁰⁰	1		Ream 30' Hole Caving in Work Pipe Tighten Swivel Packing
12⁰⁰	1⁰⁰	1		Try To Make Connection Couldn't (Work Pipe)
1⁰⁰	3⁰⁰	2		Building Volume Mixing Gel.
3⁰⁰	3³⁰		½	Ream 12¼ To 17½ H. 3³⁰-4⁰⁰ Welding On Mud Tank

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.	56	58	55	
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
Bel	2 60 lbs.		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
	STANDS DP		FT.
1	SNGLS 9½ DP	30.24	FT.
6	D.C. OD 6¼ OD	186.25	FT.
	RMR BODY 8" OD	2.43	FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
	SUB	2.63	FT.
	Kelly Down	39.49	FT.
	TOTAL	263.	FT.
WT OF STRING		22,000	LBS.
DRILLER: G. Payne			
WEATHER CONDITIONS: WINDY			

BIT RECORD		
Drilling or Core Bit No.	1A	REAMER
TYPE	OSC-3	REED
SIZE	12¼	17½
NOZZ. SIZE		
SERIAL No.		
DEPTH IN		42
DEPTH OUT		
FT. DRILLED		
FT. REAMED		221
FT. CORED		
CUM. HRS. RUN	21	6¾
CONDITION		IN.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
108		155	263		180	12.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	250	7¼	53	5¼
PUMP No. 2	Nil	6½	45	8.

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8	4⁴⁵		¾	Weld Mud Tank.
4⁴⁵	5		¼	Rig Serv.
5	6	1		Lay Down 2 Sgls Pick up DC's
6	9	3		Reaming To 17½"
9	9⁴⁵		¾	Lay Down 2 Sgls Pick up Std DC's
9⁴⁵	12	2	¼	Reaming To 17½

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.	45	45	56	58
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 6 DATE: Dec. 28, 59

DAILY DRILLING REPORT

OPERATOR: RITCHFIELD OIL Co. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE 4½ | TOOL JOINT OD TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE: J. R. Brown | CONTRACTOR'S TOOL PUSHER: Doug Carter

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	2H P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	3¼		
TRIPPING	3¾	1	
RIG MAINTENANCE	¼	11¼	¼
RIG REPAIRS			¾
HOLE SURVEYS	½		
CONDITIONING MUD		2½	
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			S.H.
MISCELLANEOUS	¼	4¼	7
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 6 SIZE 6¼	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

MORNING TOUR

NO.	DRILLING ASSEMBLY		
4	STANDS DP	363.40	FT.
1	SNGLS. DP	30.24	FT.
	D.C. OD		FT.
6	6¼ OD	186.25	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
CHANGE OVER		2.63	FT.
	Kelly Down	35.52	FT.
	TOTAL	620.00	FT.
WT OF STRING		25000	LBS.
DRILLER	E. Mill		
WEATHER CONDITIONS	COLD −30		

BIT RECORD		
Drilling or Core Bit No	1-A	
TYPE	OSC-3	
SIZE	12¼	
NOZZ. SIZE		
SERIAL No.	77866	
DEPTH IN	42	
DEPTH OUT	620	
FT. DRILLED	578	
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	21	
CONDITION		

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
479	141		620		180	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	350	7¼	52	
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
500	⅛°		620	7/8°				

From	To	Elapsed Time		REMARKS
12⁰⁰	12¹⁵		¼	RIG SERVICE
12¹⁵	12³⁰		¼	WORK MUD RING
12³⁰	1³⁰	1		DRILLING 12¼" SURFACE HOLE
1³⁰	1⁴⁵		¼	SURVEY
1⁴⁵	5¹²	3	½	TRIP TO CHECK BIT VERY TIGHT HOLE
5¹²	7³⁰	2	¼	DRILLING 12¼" SURFACE HOLE
7³⁰	7⁴⁵		¼	SURVEY
7⁴⁵	8⁰⁰		¼	PULL OUT TO PICK UP REAMER.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				58
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	700#		

DAY TOUR

NO.	DRILLING ASSEMBLY		
	STANDS DP		FT.
2	SNGLS. DP	60.03	FT.
	D.C. OD	—	FT.
	OD		FT.
	RMR BODY 8" OD	2.43	FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
	SUB	4.03	FT.
	Kelly Down	39.65	FT.
	TOTAL	108.13	FT.
WT OF STRING		1,000	LBS.
DRILLER	M. Nolan		
WEATHER CONDITIONS	CLEAR COLD −25.		

BIT RECORD		
Drilling or Core Bit No.	1A	REAMER
TYPE	OSC-3	REED
SIZE	12¼	17½
NOZZ. SIZE		
SERIAL No.	77866	R456
DEPTH IN	RR	42
DEPTH OUT		
FT. DRILLED		
FT. REAMED		
FT. CORED		
CUM. HRS. RUN	21	
CONDITION	FAIR	

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
42		66'	108		180	2.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	175	7¼	52	
PUMP No. 2	0	6½	47	8

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
8⁰⁰	8¹⁵		¼	RIG SERV.
8¹⁵	9¹⁵	1		PULL OUT TO RUN REAMER STAND BACK COLLARS
9¹⁵	10¹⁵	1		PICK UP MAKE REAMER
10¹⁵	11⁰⁰		¾	WELD 12¼ BIT TO REAMER
11⁰⁰	12⁰⁰	1		REAM 30' HOLE CAVING IN WORK PIPE TIGHTEN SWIVEL PACKING
12⁰⁰	1⁰⁰	1		TRY TO MAKE CONNECTION COULDN'T (WORK PIPE)
1⁰⁰	3⁰⁰	2		BUILDING VOLUME MIXING GEL
3⁰⁰	3³⁰		½	REAM 12¼ TO 17½ H. 3³⁰-4⁰⁰ WELDING ON MUD TANK

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.	56	58	55	
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
BEL	260#		

EVENING TOUR

NO.	DRILLING ASSEMBLY		
	STANDS DP		FT.
1	SNGLS 9½ DP	30.24	FT.
6	D.C. OD 6¼ OD	186.25	FT.
	RMR BODY 8" OD	2.43	FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
	SUB	2.63	FT.
	Kelly Down	39.49	FT.
	TOTAL	263.	FT.
WT OF STRING		22,000	LBS.
DRILLER	L. Layne		
WEATHER CONDITIONS	WINDY		

BIT RECORD		
Drilling or Core Bit No.	1A	REAMER
TYPE	OSC-3	REED
SIZE	12¼	17½
NOZZ. SIZE	T	
SERIAL No.	P	
DEPTH IN	O	42
DEPTH OUT	L	
FT. DRILLED	E	
FT. REAMED	R	221
FT. CORED	E	
CUM. HRS. RUN	AM 21	6¾
CONDITION	R	IN.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
108		155	263		180	12.

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	250	7¼	53	5¼
PUMP No. 2	NIL	6½	45	8.

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4	4⁴⁵		¾	WELD MUD TANK.
4⁴⁵	5		¼	RIG SER.
5	6	1		LAY DOWN 2SGLS PICK UP 3 DC'S
6	9	3		REAMING TO 17½"
9	9⁴⁵		¾	LAY DOWN 2SGLS PICK UP STD DC'S
9⁴⁵	12	2	¼	REAMING TO 17½

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.	45	45	56	58
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 6 DATE: DEC. 28, 59

DAILY DRILLING REPORT

OPERATOR: Richfield Oil Co. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: Grand View Hills | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16. | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING	6		
TRIPPING			
RIG MAINTENANCE	1/4	1/4	1/4
RIG REPAIRS			
HOLE SURVEYS	1/2	1/2	1
CONDITIONING MUD			
CONDITIONING HOLE		1/2	
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE	1		1/2
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT		SH	SH
MISCELLANEOUS	1/4	6 1/4	
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS	8	8	8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 6 SIZE 1/4	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

MORNING TOUR

NO.	DRILLING ASSEMBLY		FT.
	STANDS DP		FT.
	SNGLS. DP		FT.
4	D.C. OD		FT.
	OD	124.23	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
CHANGE OVER		2.63	FT.
	Kelly Down	31.18	FT.
	TOTAL	160.00	FT.
WT OF STRING		15000	LBS.
DRILLER	E. Mill		
WEATHER CONDITIONS	Cool - 12 Snowing		

BIT RECORD

Drilling or Core Bit No	1-A
TYPE	OSC-3
SIZE	12 1/4
NOZZ. SIZE	
SERIAL No.	77866
DEPTH IN	42
DEPTH OUT	
FT. DRILLED	118
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	6 1/4
CONDITION	RUNNING

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
57	103		160		100	6000

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	200	7 1/4	53	7
PUMP No. 2				

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	100'	1/4							

From	To	Elapsed Time	REMARKS
12:00	12:10	:25	Rig Service
12:10	12:30	:25	Drilling 12 1/4" Surface Hole
12:30	1:30	1:00	Work Mud Ring
1:30	3:10	1:75	Drilling 12 1/4" Surface Hole
3:10	3:45	:50	Survey w/wire Line
3:45	1:30	2:75	Drilling 12 1/4" Surface Hole.
1:30	6:45	:25	Tighten Wash Pipe in Swivel
6:42	8:00	1:25	Drilling 12 1/4" Surface Hole.

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT		9.1		
VISC.	45	45	43	43
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		FT.
2	STANDS DP	59.76	FT.
6	D.C. OD 6 1/4 OD	186.25	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
CHANGE OVER		2.63	FT.
	Kelly Down	24.40	FT.
	TOTAL	275.00	FT.
WT OF STRING		22,000	LBS.
DRILLER	R. Nolan		
WEATHER CONDITIONS	Cool SNOWING		

BIT RECORD

Drilling or Core Bit No.	1A
TYPE	OSC-3
SIZE	12 1/4
NOZZ. SIZE	
SERIAL No.	77866
DEPTH IN	42
DEPTH OUT	
FT. DRILLED	233
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	~~12~~ 13
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
160	115		275	SHALE GRAVEL	100 to 120.	6,000 to 12,000

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	250	7 1/4	53	6 3/4
PUMP No. 2	0	6 1/2	45	8

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	198	0°							

From	To	Elapsed Time	REMARKS
8:00	9:00	1	Drill 12 1/4" SH.
9:00	9:30	1/2	Rig Serv & Worn Pipe Hole Sloffing After Con
9:30	11:15	1 3/4	Drill 12 1/4" S.H.
11:15	11:30	1/4	Clean Out Hole
11:30	12:00	1/2	Survey w/ wire line
12:00	4:00	4	Drill 5" S.H.

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.	43	45	45	43
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		FT.
	STANDS DP	272.26	FT.
	SNGLS. DP		FT.
6	D.C. OD		FT.
	OD	186.25	FT.
	RMR BODY OD		FT.
	STB BODY OD		FT.
	SUBS OD	1.96	FT.
	BIT OR C.B.		FT.
CHANGE OVER		2.63	FT.
	Kelly Down	25.70	FT.
	TOTAL	479	FT.
WT OF STRING		25000	LBS.
DRILLER	L. Layne		
WEATHER CONDITIONS	Cold -15		

BIT RECORD

Drilling or Core Bit No.	1A
TYPE	OSC-3
SIZE	12 1/4
NOZZ. SIZE	
SERIAL No.	77866
DEPTH IN	42
DEPTH OUT	
FT. DRILLED	439
FT. REAMED	
FT. CORED	
CUM. HRS. RUN	17 3/4
CONDITION	IN

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
275	244		479		180	10-12

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	350	7 1/4	53	4 3/4
PUMP No. 2	NIL	6 1/2	45	8

DEVIATION RECORD:	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
	290	1/2		380	1/4°				

From	To	Elapsed Time	REMARKS
1	4:15	1/4	Drill 12 1/4 SH.
4:15	4:45	1/2	Survey 290
4:45	5	1/4	Rig Ser.
5	7:30	2 1/2	Drill.
7:30	8	1/2	Survey 380
8	10	2	Drill 12 1/4" SH
10	12	2	Work Mud Ring Clean Flow Line & Cellar

MUD RECORD				
TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT	~~9.0~~			
VISC.	45	43	40	
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 5 DATE: Dec 27, 59

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRAND VIEW HILLS No. 1 | PROVINCE: NWT

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE | TOOL JOINT TYPE THD. FH. OD | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			7
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT	8	8	
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	8		2
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS			8

WIRE LINE RECORD

REEL NO.	
NO. OF LINES SIZE	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: Hayes

WEATHER CONDITIONS: Cool - 12. DARK

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	8.		W/O/C AROUND CONDUCTOR PIPE.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
SAWDUST			

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: E. Mill

WEATHER CONDITIONS: Cool - 10

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	4:00		W.O.C. AROUND CONDUCTOR PIPE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	1A
	SNGLS. DP	FT.	TYPE	OSC-3
1	D.C. OD 6" OD	3098 FT.	SIZE	12 1/4
	RMR BODY OD	FT.	NOZZ. SIZE	
	STB BODY OD	FT.	SERIAL No.	77866
	SUBS OD	196 FT.	DEPTH IN	42
	BIT OR C.B.	FT.	DEPTH OUT	
	OVER	2.63 FT.	FT. DRILLED	15
	Kelly Down	22.43 FT.	FT. REAMED	
	TOTAL	57.00 FT.	FT. CORED	
WT OF STRING		LBS.	CUM. HRS. RUN	1 1/4
			CONDITION	IN

DRILLER: H Nolan

WEATHER CONDITIONS: Cold - 15

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#
42	15		57		70 @ 120	1,000

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1	100	7 1/4	50	
PUMP No. 2.				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time		REMARKS
4:00	9:00	5		MIXING GEL
9:00	9:45		3/4	PLUGGING GATES IN MUD TANKS & W.O SHALE SHAKER
9:45	10:00		1/4	DRILL 12 1/4" S.H.
10:00	12:00	2		MIXING GEL

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.
GEL	75 sx		
MAGCOBAR	900 #		

REPORT No. 4 DATE: DEC 26/59

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS. No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE | TOOL JOINT OD, TYPE THD. F.H. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: Don Baker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P.
2.	"	"
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT	8	8	8
HEADING UP AND DRILLING OUT			
MISCELLANEOUS			
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 6	SIZE 1/4
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: L. Layne.
WEATHER CONDITIONS: Cool -10

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	5		DIG CELLAR CEMENT FLOOR & CRIB SAME.
5	6		DIGGING DITCHES.
			USED 25 SKS CEMENT.
			MERRY CHRIST MAS.
			PETE & STAFF.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: E. Mill
WEATHER CONDITIONS: Cool. -12.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	4:00	8 00	W.O.C ON CONDUCTOR PIPE (DIGGING DITCHES)

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: Ed. Nolan
WEATHER CONDITIONS: Cool - 17.

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	12:00		W.O.C ON CONDUCTOR PIPE
			RIG UP RATHOLE DIGGER & DRILL RATHOLE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 3 DATE: DEC 25/59

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO. | LOCATION LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HELLS. | No. 1 | PROVINCE: N.W.T.

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE | TOOL JOINT F-H OD | TYPE THD. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: Don Parker

PUMPS

No.	MANUFACTURER	TYPE
1.	OILWELL	214 P
2.	"	"
3.		

CASING & LINER RECORD

	SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER
CONDUCTOR	20"	?	0	42' R/B	CONST.	80	200# CACL2.

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning To Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT	12	8	8
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	6¼	4	
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES 6 SIZE 1¼	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

MORNING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: L. Lapp. WEATHER CONDITIONS: Cooling -10

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
12	2		WELD CONDUCTOR PIPE CENTER SAME.
2	6 10'		RUN 80 SKS & 2 CALCIUM CHLORIDE.
6 10'	8		DIG CELLAR.
			K.B TO GRND 12-25

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: E. Mill. WEATHER CONDITIONS: COLD -12

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:00	4:00	8 00	DIG CELLAR. W.O.C. ON CONDUCTOR P. PE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY	FT.	BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
WT OF STRING		LBS.	CONDITION	

DRILLER: R. Nolan. WEATHER CONDITIONS: Cold -14

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#

	PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
PUMP No. 1				
PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	12:00		DIG CELLAR W.O.C. ON CONDUCTOR PIPE

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR.	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 2 DATE: Dec 24/59

DAILY DRILLING REPORT

OPERATOR: RICHFIELD OIL CO | LOCATION: LSD. SEC. TWP. RGE. W. | WELL NAME: GRANDVIEW HILLS | No. 1 | PROVINCE: NWT

CONTRACTOR: PETER BAWDEN DRILLING LIMITED | RIG NO. 16 | DRILL PIPE STRING NO. SIZE | TOOL JOINT FH OD | TYPE THD. | DRILL PIPE GRADE

OPERATOR'S REPRESENTATIVE | CONTRACTOR'S TOOL PUSHER: Don Parker

PUMPS No.	MANUFACTURER	TYPE
1.	OILWELL	214P
2.	OILWELL	214P
3.		

CASING & LINER RECORD

SIZE	WT & GR.	DEPTH SET FROM	DEPTH SET TO	TYPE OF CEMENT	CEMENT USED	OTHER

TIME DISTRIBUTION—HOURS

	Morn	Day	Eve
DRILLING			
TRIPPING			
RIG MAINTENANCE			
RIG REPAIRS			
HOLE SURVEYS			
CONDITIONING MUD			
CONDITIONING HOLE			
Reaming & Cleaning to Bottom			
WORKING OR STUCK PIPE			
FISHING			
LOST CIRCULATION			
CASING			
WAITING ON CEMENT			
HEADING UP AND DRILLING OUT			
MISCELLANEOUS	8	8	8
SUB TOTAL			
DAYWORK HOURS			
TOTAL HOURS			

WIRE LINE RECORD

REEL NO.	
NO. OF LINES SIZE	
FEET SLIPPED	
FEET CUT OFF	
PRESENT LENGTH	
TON MI. or TRIPS SINCE LAST CUT	
CUMULATIVE TON MI. or TRIPS	
NO. OF DAYS FROM SPUD	
CUMULATIVE ROTATING HRS.	
DAYS SINCE LAST ACCDNT.	
DRILLER ACCDNT. FREE DAYS	
MORNING TOUR	
DAY TOUR	
EVENING TOUR	

MORNING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
	WT OF STRING	LBS.	CONDITION	

DRILLER: [redacted] L. Payne

WEATHER CONDITIONS: Mod. MILD. 22+

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
							PUMP No. 1				
							PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
~~[illegible]~~	1900		~~[illegible]~~
8	4		SPOOL OLD DRILL LINE CUTTING SUBMERGED GUNS IN TANKS.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

DAY TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT ~~OR C.B.~~ JOB	4.50 FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	UP FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
	WT OF STRING	LBS.	CONDITION	

DRILLER: E. Mill

WEATHER CONDITIONS: MILD 22+

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
							PUMP No. 1				
							PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
8:20	8:30	8 00	PICK UP KELLY & RIG UP TO DRILL CONDUCTOR HOLE
3:30	4:30		TRY TO DRILL CONDUCTOR HOLE W/26" BIT

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

EVENING TOUR

NO.	DRILLING ASSEMBLY		BIT RECORD	
	STANDS DP	FT.	Drilling or Core Bit No.	
	SNGLS. DP	FT.	TYPE	
	D.C. OD	FT.	SIZE	
	OD	FT.	NOZZ. SIZE	
	RMR BODY OD	FT.	SERIAL No.	
	STB BODY OD	FT.	DEPTH IN	
	SUBS OD	FT.	DEPTH OUT	
	BIT OR C.B.	FT.	FT. DRILLED	
		FT.	FT. REAMED	
	Kelly Down	FT.	FT. CORED	
	TOTAL	FT.	CUM. HRS. RUN	
	WT OF STRING	LBS.	CONDITION	

DRILLER: Ed Nolan

WEATHER CONDITIONS: Mild 10+

Depth At Beginning of Tour	Drilled This Tour	Cored or Reamed This Tour	Depth At End of Tour	FORMATION (SHOW CORE RECOVERY)	ROTARY R.P.M.	WT ON BIT 1000#		PUMP PRESS.	LINER SIZE	S.P.M.	HRS. RUN
							PUMP No. 1				
							PUMP No. 2				

DEVIATION RECORD:

DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

From	To	Elapsed Time	REMARKS
4:00	12:00		DRILL 26" CONDUCTOR PIPE HOLE FROM 0 TO 42' KB TRIED W/26' IN BIT FIRST WOULD NOT DIG RAN 1" LINE W/ STEAM TO 20' RAN 4½ KELL FOLLOWING AFTER 1 INCH LINE WAS PULLED AFTER THAT WAS DOWN KELLY W/ DRAG BIT & STEAM AFTER THAT WAS DOWN 15" BIT & KELLY THEN PICKED UP 26" BIT & USED STEAM & DRILLED TO T.D.

MUD RECORD

TIME	1st HR.	3rd HR.	5th HR	7th HR.
WEIGHT				
VISC.				
W.L.-C.C.				
FLTR. CK.				
pH				
SD. CONT.				

MUD & CHEMICALS ADDED

TYPE	AMT.	TYPE	AMT.

REPORT No. 1

DATE: DEC 23/59