

CHEVRON CS BERRY

F-71

Drilling Authority No. 345
Date issued 16 January 1969

WELL NAME Chevron CS Berry F-71

FIELD

LOCATION: Unit F Area: Section 71 Grid 62-40 — 122-45
Latitude 62-30-21 Longitude 122-59-27
From Established Reference Marker Topographic maps

U.W.L.R. 62.50583 — 12 2.09083
U.W.T. 300F716240122450

Rig Release Date:
Status
Information Release Date

CHANGE OF NAME:

DATE RECEIVED	INDEX
16-1-69	Application for a Drilling Authority. Well Completion Data. Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
13/3/69	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well.
31/3/69	Well History Supplement. Well Completion Data. Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells — Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells — Vitter's Method.
	M.P.R. — Oil — Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report Logs. Large scale Small scale

CEMENTING RECORD (Plug, Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Finishing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
March 5/69	3880	3770	55 sacks - Neat								
March 5/69	3370	3270	60 sacks +3% CaCl ₂ . Feit @ 3220'.								
March 5/69	1750	1650	70 sacks +3% CaCl ₂ . Feit @ 1600'.								
March 5/69	590	490	66 sacks +3% CaCl ₂ . Feit @ 435'.								
March 6/69	Surface Plug		5 sacks and plate welded on, with name plate installed.								

N/A

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	L.S.I. Mins.	F.S.I. Mins.	I.S.I.R.H.P.	F.S.I.R.H.P.	I.F.R.H.P.	F.F.R.H.P.	L.H.P.	F.M.P.	REMARKS
1	Feb. 21/69	Arnica	2298	2365	150	60	150	964	984	40	211	1036	1056	348' watery drilling mud & 174' salt water.
2	March 4/69	Ronning	3584	3880	90	60	90	1574	1574	1194	1568	1729	1656	2400' salt water, 300' salty mud

Pressures reported are field readings.

ANALYSIS

Lab. No.	Sample	From	To	Source	PRESENT STATUS OF WELL			
					Oil		(Interval.)	
CNP-4-4602	Core	2313	2365'	Core #1				
E69-9303-2	Water	2298	2365'	DST #1				
E6-585	"	3484	3880'	DST #2				
					Dry and Abandoned			
					Susp.			

Company **Chevron Standard Limited**

Signed by *J. S. Allen*

Title **Division Superintendent**

Date **March 31, 1969**

Form to be prepared in duplicate and forwarded to the Oil Conservation Engineer, Calgary, Alberta.



File No.
Drilling Authority No. 383

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

RESOURCE MANAGEMENT DIVISION

WELL-SITE INSPECTION REPORT

FROM: Field Office or Area: Calgary, Alberta Date: 19th February 1969

TO: The Oil Conservation Engineer:

RE: Chesron CS Barry 2-71

Location: 62°23'21" N 119°34'40" W Status: Drilling at 2102'

This location was inspected by the undersigned on 19th February 1969

The location is in satisfactory/~~satisfactory~~ condition.

The following items require attention:

Re: Peter Bowden No. 11

1. Repair broken vapour-proof lenses.
2. Connect ground wire to ground stake with clamps.
3. Cover on mud pump pop valve.
4. Hang electrical outlets in the proper manner.
5. _____
6. _____

Other comments and recommendations: (Include Map, if necessary for clarity)

The toolpush was asked to have an electrician check over the electrical system before spudding the next hole. The electrical system is in poor operating condition.

Pipe rams, hydril and motor shut-offs operated in a satisfactory manner.

Inspected by



File No. _____
Drilling Authority No. 345

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
RESOURCE MANAGEMENT DIVISION

Application to Abandon a Well or ~~Suspend Drilling~~

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon, to suspend drilling:—

Name and number of well Chevron CS Barry F-71
Location: Unit F Section 71 Grid 62040°E, 122°45°W
Latitude 62°30'21" Longitude 122°59'27"
From Established Reference Marker Topographic maps
Universal Well Location Reference 62.5038°N Lat., 122.0908°W Long.
Permit No. Cities Service 4429 Lease No. _____

Canada-Cities Service Petroleum Corporation
(Permitter, Licensee, Lessee)

Date of commencement of proposed program March 4, 1969

OIL, GAS, AND WATER ENCOUNTERED (Depth)

Oil at N/A
Gas at N/A
Water at (2580-2980), (3586-3724), (3724-3849) From logs.
Total Depth 3880 Date of last operations March 6, 1969
Present condition of well Dry and abandoned

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. <u>20-3/4"</u>	<u>40.5 lb.</u>	<u>522.35</u>	<u>538'</u>	<u>450 sacz plus 2% CaCl₂</u>	<u>nil</u>
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	<u>TD - 3700</u>	<u>Headless(?) into Bonning</u>	<u>55</u>	<u>No feel</u>
2	<u>3370-3270</u>	<u>Delorme into Arnica</u>	<u>60</u>	<u>Feel</u>
3	<u>1750-1650</u>	<u>Nahanni</u>	<u>70</u>	<u>Feel</u>
4	<u>490- 590</u>	<u>Base of surface casing</u>	<u>66</u>	<u>Feel</u>
5	<u>Surface</u>	<u>-</u>	<u>5</u>	

The following logs have been run Dual Induction Laterolog, Formation Density, Borehole Compensated Sonic, Sidewall Neutron porosity log.
Other operations proposed _____

Operations to be carried out by Borden Drilling Services Ltd. Contractor Licence No. A2563
Address 640 Eighth Ave. Calgary, Alberta Address 640 Eighth Ave. Calgary, Alta.
Responsible Agent in field U. K. Mahura

Dated at Edmonton this 10th Day of March 19 69
Signed by [Signature] Company Chevron Standard Limited
Title Division Superintendent Operator's Exploratory Licence No. 1106

Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

(For RESOURCE MANAGEMENT DIVISION use only)

APPROVAL

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

Confirming oral approval given by Mr. R.H.J. Thoms
on the 4th March 1969.

Dated 13th March 19 69

[Signature]
Oil Conservation Engineer

Forms to be submitted in triplicate to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

Drilling Authority No. **345**

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL & MINERAL ~~REGULATIONS DIVISION~~ DIVISION

Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:—

Name and number of well **Chevron CS Berry F-71**
 Location: Unit **F** Section **71** Grid **42°40'N, 122°45'W**
 Latitude **62°30'21"** Longitude **122°39'27"**
 From Established Reference Marker **Topographic maps**
 Universal Well Location Reference **62.50553° N. Lat. 122.09083° W. Long.**
 Elevation: Ground **K.B.** feet above sea-level.
 Well is expected to produce from **Roaring Dolomite** formation at a depth
 of about **4000** feet. Expected total final depth **4500**
 Area assigned to well
 (For Oil Conservation Engineer's use only)

Permit No. **Cities Service 4419** Lease No. **58980**
 Permittee, licensee, or lessee **Canada Cities Service Petroleum Corporation**
 Exploratory Licence No. **2099** (**Chevron is appointed agent by Canada Cities Service Petroleum Corp.**)
 Surface owned by Crown or **Crown** (Letter dated 4-10-67)
 Petroleum and natural-gas rights owned by **Crown**
 (If allocated submit name and address of owner and consent.)

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

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Feet of Cement
1. 10-3/4	40.5	J-55	New	530	450
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment.

Arctic, Roaring
15" Series 900 Hydril and 15" Series 900 Cameron SS
Operated with a Payne Accumulator
 Well will be drilled with Rotary Rig No. **11** by **Peter Borden Drilling Services Limited**
 (Drilling Contractor or company)

Responsible agent of applicant:— Contractor's Business Licence No. **A2563**
 At well **D. M. Nabura** At registered office **J. Zaida**
 Address **Box 2296, Edmonton** Address **Box 2296, Edmonton 15, Alberta**
 It is understood that if changes become necessary, notice of the change of plan will be submitted.
 Dated at **Edmonton, Alberta** this **13th** day of **January** 19 **69**
 Signed by **J. Zaida** Company **Chevron Standard Limited**
 Title **Division Superintendent** Operator's Licence No. **1106**

(For Resource Management Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—

1. The Company will submit to this office, on Tuesday of each week, the latest reports received by radio on the progress of the well.
2. During well drilling and testing operations every effort shall be made to ensure

Dated **16th January** 19 **69**

Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer,
 Department of Indian Affairs and Northern Development, Calgary, Alberta.

LAND 52-90-1 (3-67)

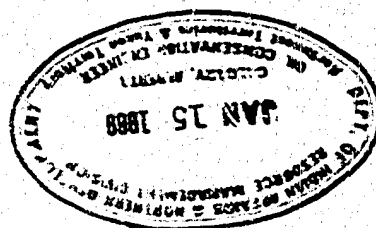
WELL IDENTIFIER: **3007716240122450**

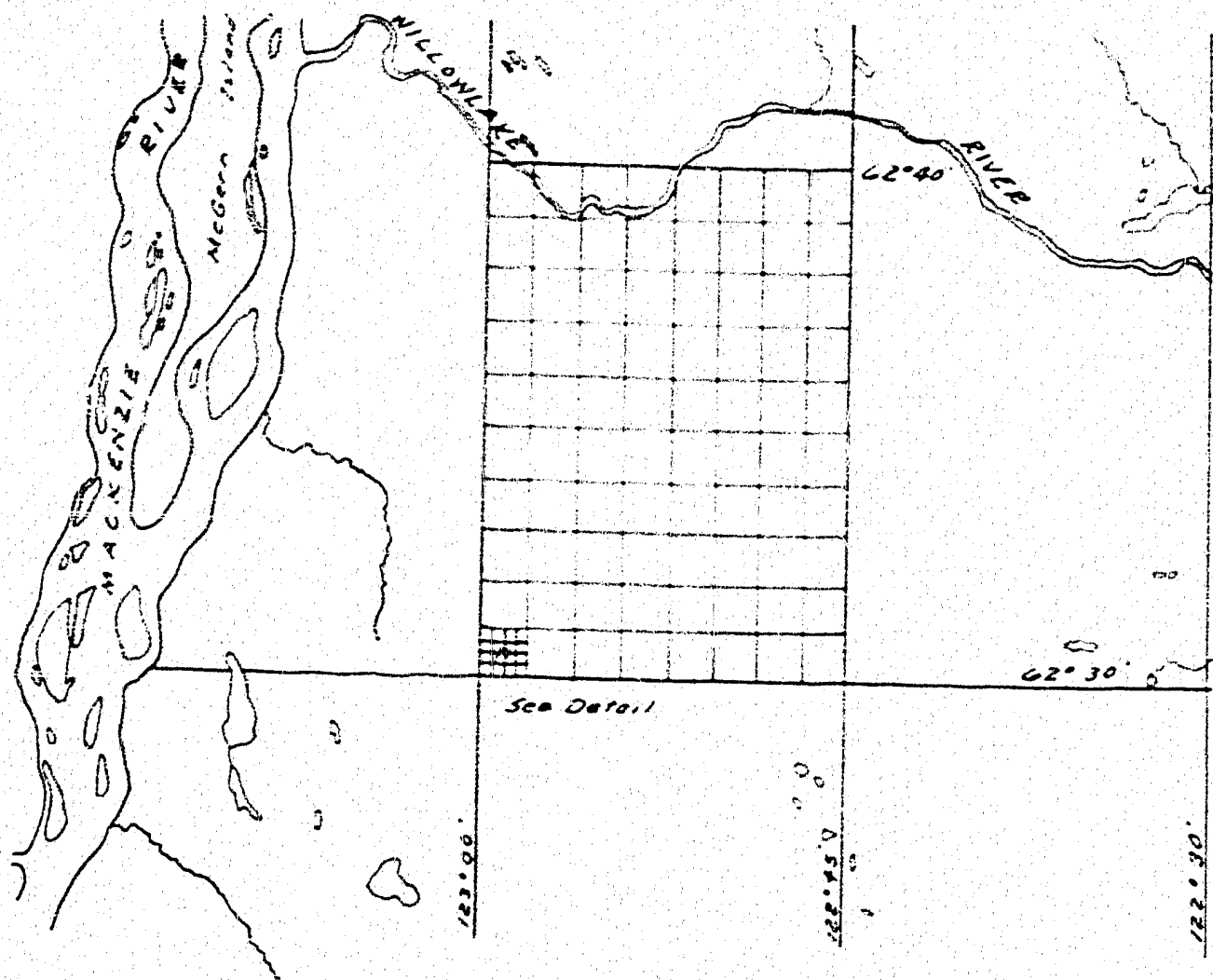
(over)

that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or subsurface waters.

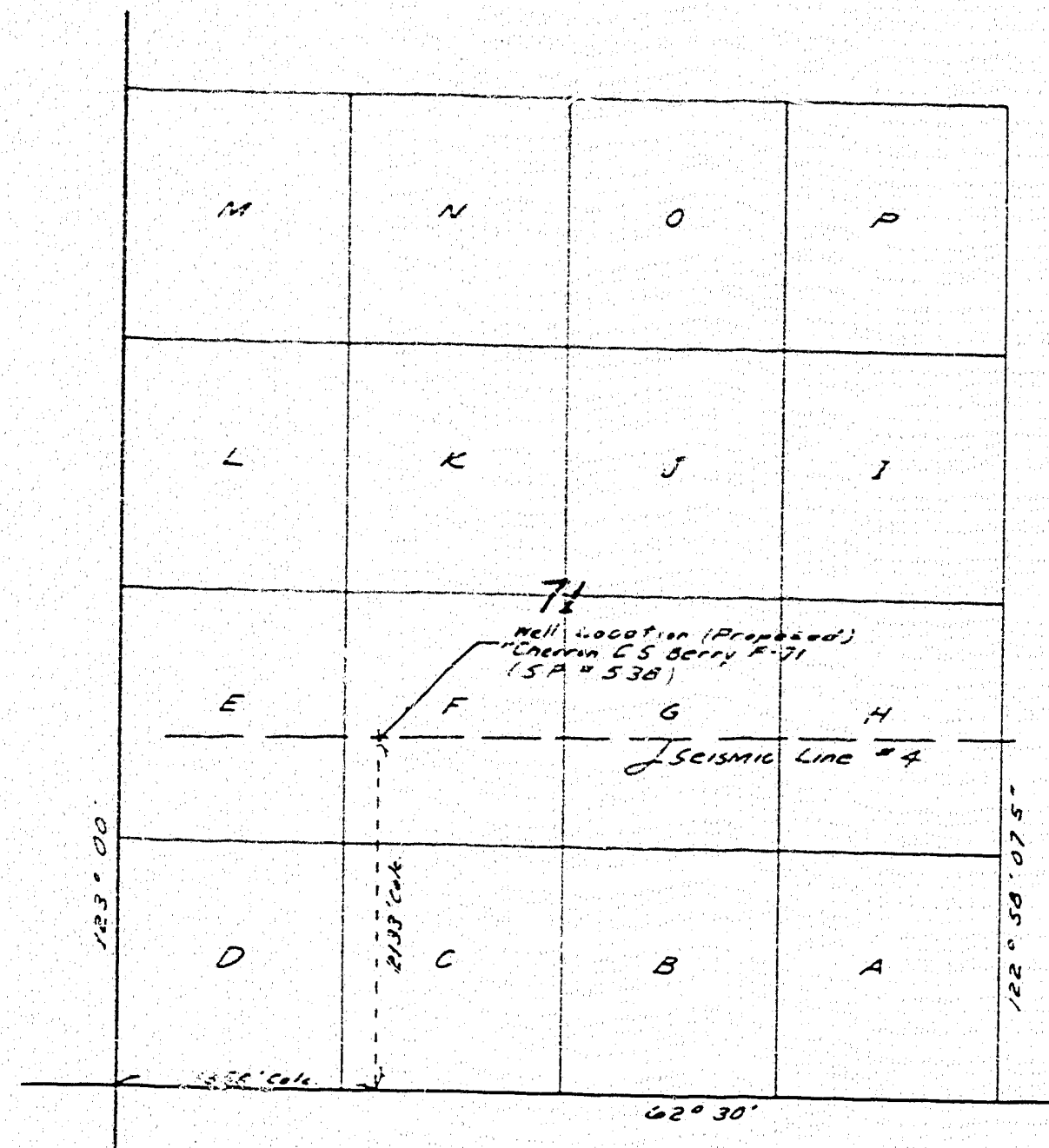
3. We draw your attention to Sections 95 and 96 of the General Oil and Gas Land Regulations.

B. J. Thomas
Oil Conservation Engineer.





Insert
Scale: 1 : 250,000



Detail
Scale: 1 Inch = 1000 Feet

Chevron Standard Limited
PLAN
SHOWING PROPOSED WELL LOCATION FOR
"Chevron CS Berry F-71"
Lat. 62°30' 21 "
Long. 122°59' 27 "
NORTHWEST TERRITORIES

SCALE: As Shown
JANUARY: 10th, 1969.

G.E.: 740' Grid Area Lat. 62°40'
Long. 122°45'

For: Chevron Standard Limited L. O. OLSEN - D.L.S.

W. H. Britton
R. L. Powell

45-11-4-65



WELL HISTORY REPORT

Chevron C.S. Berry F-71

Unit F, Section 71, Grid 62° 40' N. 122°

Location Reference: 62,50583 N. Lat.

CHEVRON STANDARD LIMITED
14605-118th Avenue
Edmonton, Alberta

WELL HISTORY REPORT

Chevron C.S. Berry A-71

Unit F, Section 71, Grid 62°-40' N, 122°-45' W
Location Reference: 62.50583 N. Lat.,
122.09083 W. Longt.
Well Identifier: 300F716240122450

Date:

March 25/69.

Signed:

D. M. Mahura

D. M. Mahura
Area Supervisor

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WELL HISTORY REPORT

Section I - Summary of Well Data

(A) <u>Well Name</u>	Chevron C.S. Berry F-71
(B) <u>Permittee</u>	Canada-Cities Service Petroleum Corporation
✓ (C) <u>Operator</u>	Chevron Standard Limited 14605 - 118th Avenue, Edmonton, Alberta
(D) <u>Location</u>	Unit F, Section 71, Grid 62° 40' N, 122° 45' W
(E) <u>Co-ordinates</u>	Lat. 62° 30' 21", Longt. 122° 59' 27"
✓ (F) <u>Permit No.</u>	4419 (Cities Service), Exploratory License 1099
(G) <u>Drilling Contractor</u>	Peter Bawden Drilling Services Ltd., Rig #11, License #A2563
✓ (H) <u>Drilling Authority</u>	#345 issued January 16, 1969
✓ (I) <u>Classification</u>	Wildcat
(J) <u>Elevations</u>	Ground = 742.0' K.B. = 756.2'
✓ (K) <u>Spudded</u>	5:00 A.M. January 25, 1969
✓ (L) <u>Completed Drilling</u>	11:45 P.M. March 2, 1969
✓ (M) <u>Total Depth</u>	3880'
(N) <u>Well Status</u>	Abandoned
✓ (O) <u>Rig Released</u>	6:00 A.M. March 6, 1969
✓ (P) <u>Hole Sizes</u>	15" 0-540' 8-3/4" 540'-3880' T.D.
✓ (Q) <u>Casing String</u>	Size: 10-3/4" Type: J-55 Weight: 40.5# Amount: 522.35' Set at: 538.85 Sax of Cement: 450 +2% CaCl ₂

* Universal Well Location Reference - Lat. 62.50583° N., Long. 122.09083° W.

Unique Well Identifier - 300F716240122450

Section II - Geological Summary

(A) <u>Formation Tops</u>	Depth (Samples)	Depth (Logs)	KB-756.2 Elevations (Logs)
Nahanni	1705	1704	- 948
Headless	2035	2030	-1274
Landry	2235	2235	-1479
Arnica	2303	2314	-1558
Chinchaga	Absent		
Delorme	3320	3320	-2564
Ronning	3485	3480	-2724
Breccia Zone		3724	-2968
Headless ?	3860	3849	-3093
T.D.		3880	-3124

(B) Cored Intervals

Core #1 (2313-2365) Recovered 52' Arnica formation.

(C) Core Description See Appendix "A"

Core Analysis See Appendix "B"

(D) Sample Descriptions See Appendix "C"

Section III - Engineering Summary

(A) Drill Stem Tests See Appendix "E" for charts and data. Testing was by Drillstem Testing & Coring Ltd.

DST #1 February 21, 1969 (2298-2365) Arnica formation

Preflow 5 min., ISI 60 min., VO flow period 150 min., FSI 150 min.
Weak initial with very faint steady air blow throughout test. Recovered
348' watery drilling mud, No GTS.
174' salt water.

IHP 1053, ISIP 987, IFP 37
FHP 1046, FSIP 981, FFP 218, Temp. 150 deg. F

DST #2 March 4, 1969 (3584-3880) ✓

Preflow 4 min., ISI 60 min., VO flow period 90 min., FSI 90 min.
✓ Good initial air blow, strong air blow on VO, decreasing to nil in 60 min.
Recovered 300' salt water cut mud and 2900' salt water (110,000 PPmCL).
No GTS.

IHP 1695, ISIP 1568, IFP 1337
FHP 1688, FSIP 1570, FFP 1567 ✓

(B) Casing Record Only surface casing was run.

Ran in 17 joints (522.35') of 10-3/4", 40.5#, J-55, 8 rd thread, Range 3 new seamless casing, c/w one Larkin float shoe and collar welded on to shoe joint. String also equipped with three centralizers. Casing string was landed @ 538.85 KB and cemented in place with 450 sacks construction cement plus 2% CaCl₂. CIP @ 7:17 a.m. January 30, 1969.

(C) Bit Record

<u>No.</u>	<u>Size</u>	<u>Serial</u>	<u>Type</u>	<u>From To</u>	<u>Footage</u>	<u>Hours Used</u>
1A	15"	98627	HW	0- 283	283	
2A	15"	734	HW-OSC3	283- 540	257	22-3/4
1	8-3/4"	4570	HWX1G	540-1363	823	44?
2	8-3/4"	8028	HWODV?	1363-1645	282	29
3	8-3/4"	6235	HWODV	1645-1692	47	19-3/4
4	8-3/4"	7975	HW-WDRJ?	1692-1700	8	4-3/4
5	8-3/4"	84048	HW-WRJ	1700-1709	9	3-1/4
6	8-3/4"	82662	HW-WRJ	1709-1751	42	3-3/4
7	8-3/4"	910157	M4LGJ	1751-1805	54	15
8	8-3/4"	6364	HWODVJ	1805-1908	103	?
9	8-3/4"	6230	HWODVJ	1908-1951	26	13-3/4
10	8-3/4"	154500	HWM8J	1951-1977	26	5-3/4
11	8-3/4"	166131	HWDMJ	1977-2055	78	4-3/4
10A(RR)	8-3/4"	154500	HWM8J	2055-2313	258	9
1B(φ)	8-11/16"	7326	Diamond	2313-2365	52	26-1/2
6A(RR)	8-3/4"	82662	HWWRJ	2313-2365	52	18-3/4
10B(RR)	8-3/4"	154500	HWM8J	2303-2365	62	1-3/4
12	8-3/4"	910155	M4LGJ	2365-2433	68	?
13	8-3/4"	200055	M88	2433-2962	529	7-3/4
14	8-3/4"	4019	X55R	2962-3550	588	63
15	8-3/4"	909948	M4LGJ	3550-3729	179	63-1/2
16	8-3/4"	7626	XV	3729-3880	151	?
						10-1/2

(D) Mud Report

Materials

Quantity (sacks) used

Hydrogel (100 lbs.)	1324
Sawdust (40")	660
Caustic Soda (50")	49
Bicarb-Soda (100")	6
Peltex (50)	54
Line (50")	6
CMC (50)	2
Plaster-Paris (50")	20
Soda Ash (100)	2
Starch (50")	80

<u>Materials</u>	<u>Quantity (sacks) used</u>
Salt Cel (100')	40
Preservative (50')	14
Weight (100)	60
Redwood Fibre (40)	94
Mica (50)	5
Benex (2)	32
Lignosol (50)	140
D-Foam (Can?)	-
Sodium Bichromide (100)	15
Poly Seal (25)	-
Corrosion Inhibitor (5 gal.)	-
Cellophane (50)	8
B-Free (45 gal.)	-
Cement (100)	981
CaCl ₂ (100)	23

(E) Deviation Record ("ToTco" deviation recorder used)

<u>Depth</u>	<u>Reading</u>
65'	1/2°
90'	1/2°
125'	1/4°
220'	1/2°
265'	3/4°
283'	3/4°
310'	1 °
371'	3/4°
405'	3/4°
467'	3/4°
610'	3/4°
700'	1/2°
920'	7/8°
980'	3/4°
1080'	1 °
1112'	1 °
1144'	1/2°
1200'	1 °
1260'	1-1/4°
1290'	1-1/4°
1330'	1 °
1421'	1-1/4°
1455'	3/4°
1475'	1-1/8°
1549'	1-1/4°
1579'	1 °
1697'	1-1/8°

<u>Depth</u>	<u>Reading</u>
1728	1 °
1751	1-1/4 °
1781	1-1/2 °
1802	1-3/4 °
1820	1-1/2 °
1951	1-1/2 °
1977	1-1/4 °
2000	1-1/4 °
2034	1-1/4 °
2055	1-1/2 °
2126	1-1/8 °
2168	1 °
2261	1-3/4 °
2293	1-1/2 °
2316	1-1/4 °
2365	1-3/4 °
2415	1-1/2 °
2445	1-3/4 °
2509	1-1/2 °
2603	1 °
2659	1-3/4 °
2695	1-1/8 °
2822	1-3/4 °
2883	1-7/8 °
2948	1-7/8 °
2962	2-1/8 °
2992	1-7/8 °
3025	1-3/4 °
3090	1-1/4 °
3160	1-1/2 °
3220	1-3/4 °
3245	1-1/2 °
3275	1-3/4 °
3380	1-3/4 °
3465	1-3/4 °
3590	1-1/2 °
3729	3-1/4 °
3764	3 °
3880 T.D.	?

(F) Abandonment Plugs

<u>Plug No.</u>	<u>Date</u>	<u>Interval</u>	<u>Cement Used</u>	<u>Felt at</u>
1	March 5, 1969	3880-3770	55 sacks - Neat	
2	March 5, 1969	3370-3270	60 sacks + 3% CaCl ₂	3220'
3	March 5, 1969	1750-1650	70 sacks + 3% CaCl ₂	1600'
4	March 5, 1969	590- 490	66 sacks + 3% CaCl ₂	435'
5	March 6, 1969	Surface Plug	5 sacks and plate welded on and name plate installed.	

(G) Lost Circulation

Lost approximately 720 bbls. fluids into Nahanni formation @ approximately 1700'. Regained circulation with lost circulation materials (Gel, sawdust, Fiberseal, mica, shredded gunny sacks and chemicals); also Diesel Gel and cement plugs.

✓ Diesel Gel Plug #1 mixed 25 sacks (8 bbls.) Diesel Gel. Preceded plug with 5 bbls. diesel and chased plug with 5 bbls. diesel at 1:45 a.m. February 7, 1969 at approximately 1700'.

✓ Diesel Gel Plug #2 mixed 25 sacks (3 bbls.) diesel. Preceded and followed plug with 3 bbls. diesel.

✓ Cement Plug #1 mixed and ran 75 sacks cement with 2% CaCl_2 (@ 1700'). CIP @ 6:15 p.m. February 9, 1969.

✓ Cement Plug #2 mixed and ran 75 sacks cement with 2% CaCl_2 (@ 1700'). CIP @ 4:10 a.m. February 10, 1969.

✓ Gel Plug #3 mixed and ran 25 bbls. batch of 3200# gal., 20 sacks redwood fibre and 50 sacks sawdust.

✓ Diesel Gel Plug #4 followed Gel Plug #3 with 8 bbls. diesel, 25 sacks gel to 1700' @ 5:00 p.m. February 10, 1969.

✓ Plug #5 mixed and ran a 50 bbl. plug with 37 sacks salt gel, 30 sacks weight material, 13 sacks redwood fiber and shredded gunny sacks down to 1100' - 3:00 a.m. February 11, 1969.

✓ Cement Plug #3 mixed and ran 75 sacks cement +2% CaCl_2 down to 1480'. CIP @ 10:00 a.m. February 11, 1969.

✓ Lignosulphate Plug #1 mixed and ran 129 sacks Lignosol, 15 sacks Sodium B. Chromate, 4 qts. de-foam mixed with 18.5 bbls. water (Plug approximately 30 bbls. volume) in place @ 10:25 a.m. February 12, 1969.

✓ Cement Plug #4 (@ 1640-1700') mixed and ran 50 sacks cement +2% CaCl_2 - CIP @ 8:55 a.m. February 13, 1969.

(H) Blowouts

Nil.

Section IV - Logs (Logs enclosed)

Logging by Schlumberger - March 3, 1969. One run.

Borehole Compensated Sonic Log	(3874- 535)	2" = 100' 5" = 100'
Formation Density Log	(3875-1600)	5" = 100'
Dual Induction Laterolog	(3872- 535)	2" = 100' 5" = 100'
Synergetic Log	(3886-1580)	5" = 100'
Sidewall Neutron Porosity	(3875-1600)	
<u>Section V - Analysis</u>		

(A) Core Analysis

See Appendix "B" - Lab Report No. CNP-44602

(B) Water Analysis

See Appendix "D" - Lab Report Nos. E69-9303-2 and E69-9585.

(C) Gas Analysis

Nil

(D) Oil Analysis

Nil

Section VI - Completion Summary

Nil - Well abandoned.

APPENDIX A

CORE DESCRIPTION

CORE DESCRIPTION

Chevron CS Berry F-71

CORE #1 2313-2365 Rec. 52'

Coring Times:

24	23	21	12	13	14	16	16	12	19
15	15	15	13	131	13	12	12	16	14
13	15	13	39	20	14	18	19	20	24
22	42	23	25	26	29	30	26	24	40
28	33	36	24	22	25	23	36	40	40

- 2313-2313.6
0.6 Shale, black, bituminous, slickensided. Thin laminae and partings of white dolomite separate the shale into thin beds. Trace of dolomite infilled diagonal fracture. Dip of beds - near horizontal.
- 2313.6-2322.0
8.4 Dolomite, white, coarse crystalline. Irregular, indistinct grey laminae or beds resulting from concentrations of argillaceous, bituminous material infilling intercrystalline pore space. Much calcite crystals, some very coarse, infilling original vugs. Traces of calcite lustre mottling. Minor brecciation. Small to large vug and inter-crystalline porosity about 6%. No cut or fluorescence.
- 2322.0-2322.4
0.4 Dolomite, grey coarse crystalline, massive. Trace of vertical fracture. Vug and intercrystalline porosity approximately 5%, in part bitumen infilled. No cut or fluorescence.
- 2322.4-2324.8
2.4 Dolomite, white and grey, mottled. Coarse crystalline. Indistinct bedding, stylolite partings. Dip 20°. Bitumen-infilled intercrystalline porosity, large vugs. Porosity approximately 6%. Large calcite crystals infilling vugs in dolomite.
- 2324.8-2325.8
1.0 Dolomite, grey, mottled, coarse crystalline. Much intercrystalline argillaceous bituminous residue. Porosity approximately 3%.
- 2325.8-2331.5
5.7 Dolomite, breccia and indistinct bedding of grey, coarse crystalline dolomite in white, very coarse crystalline dolomite. Large quartz crystals in a vug at 2328 feet. Porosity approximately 5%, vug and inter-crystalline. Intercrystalline porosity partially infilled with argillaceous, bituminous material.
- 2331.5-2336.6
5.1 Dolomite, coarse crystalline. White and grey, irregularly mottled and banded by varying amounts of argillaceous bitumen infilling of intercrystalline porosity. Scattered small vugs. Porosity approximately 5%. Dip 15°.

- 2336.6-2336.9
0.3 Dolomite, grey, medium crystalline (0.250 mm). Much inter-crystalline bitumen and argillaceous residue. Stylolitic shale parting at top and base. Tight.
- 2336.9-2338.5
1.6 Dolomite, grey, medium to coarse crystalline (.250-.50 mm). Mottled and indistinctly bedded. Few stylolites. Inter-crystalline porosity infilled with argillaceous, bituminous residue.
- 2338.5-2344.7
6.2 Dolomite, grey, coarsely crystalline. Thin, irregular beds of grey, medium crystalline dolomite with argillaceous, bituminous residue infilling intercrystalline porosity. Scattered small to large vugs, few coarse calcite patches infilling vugs. Porosity, vug and intercrystalline approximately 5%. No stain, cut or fluorescence.
- 2344.7-2345.5
0.8 Dolomite, grey, medium to coarse crystalline. Stylolite at base. Tight.
- 2345.5-2348.5
3.0 Dolomite, grey and white, interbedded and mottled, coarse crystalline. Bituminous, argillaceous residue in intercrystalline porosity, few small vugs. Porosity approximately 3%. No cut or fluorescence.
- 2348.5-2353.8
5.3 Dolomite, grey, coarsely crystalline, mottled, breccia in part. Diagonal shale fracture filling? near base. Porosity 4%, infilled in part with bituminous, argillaceous residue. No cut or fluorescence.
- 2353.8-2355.8
2.0 Dolomite, grey, slightly mottled, medium to coarse crystalline (.50 mm). Stylolitic. Scattered coarse calcite crystals. Porosity less than 4%. No cut or fluorescence.
- 2355.8-2365
9.2 Dolomite, grey, mottled and brecciated, coarse crystalline, in a matrix of white, very coarse crystalline dolomite, large patches of calcite crystals infilling vugs in the white dolomite matrix. Few stylolites. Porosity approximately 5% as small to large open vugs. No cut or fluorescence. Lower 2.3 feet are tight.

End of core #1.

APPENDIX B

CORE ANALYSIS

CORE LABORATORIES - CANADA LTD.



Petroleum Reservoir Engineering

COMPANY Chevron Standard Limited

FIELD Wildcat, Root River Area

FILE CNP-4-4607

WELL Chevron CS Berry F-71

LOCATION _____

PROV Northwest Territories

DATE _____

ELEV. _____

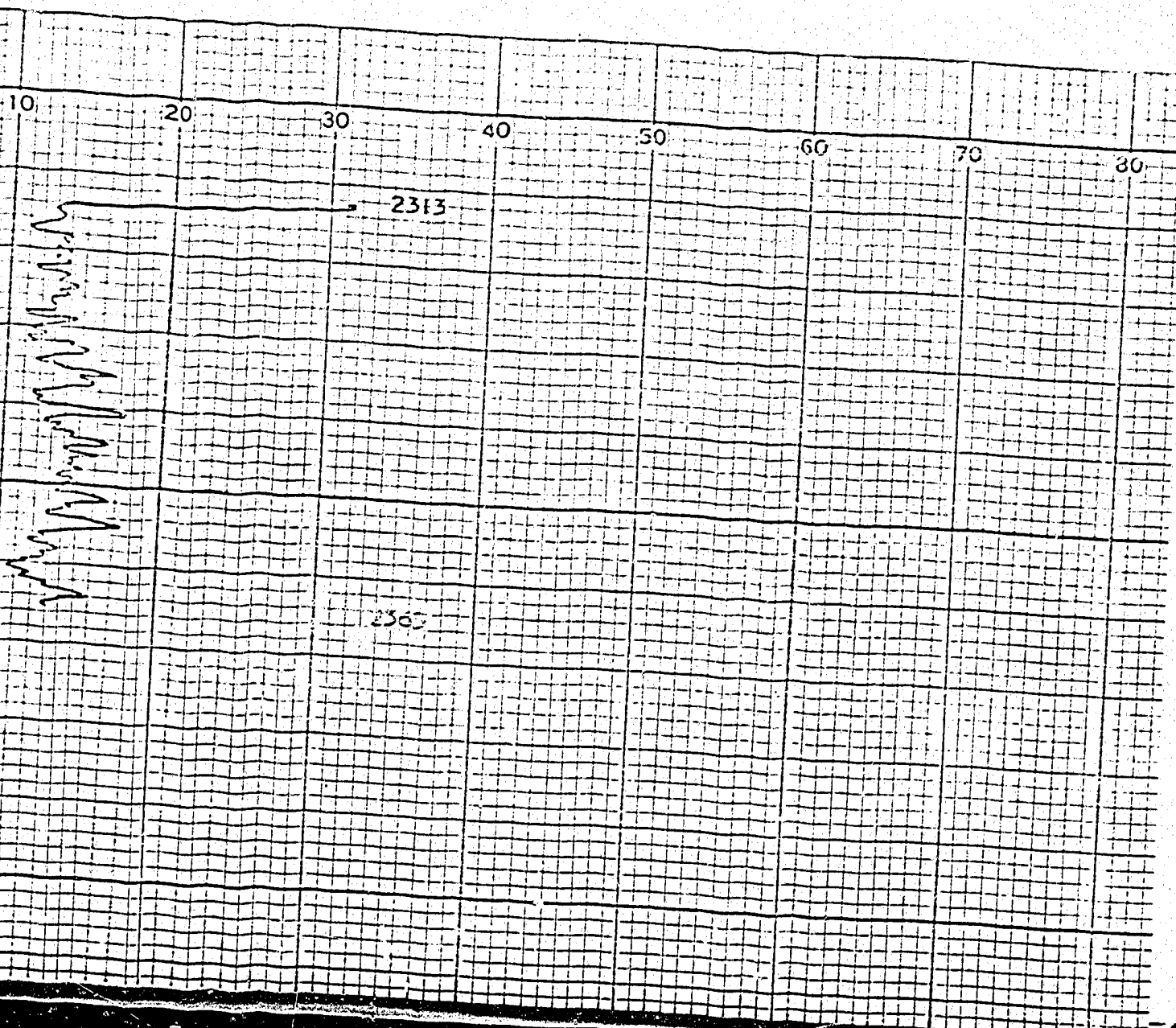
CORE-GAMMA CORRELATION

This report, unless otherwise stated, is based on observations and reports received by the client in which and for which no liability is assumed by the company. The responsibility for the accuracy of the data and the interpretation of the data rests with the client. The company is not responsible for the accuracy of the data or the interpretation of the data. The company is not responsible for the accuracy of the data or the interpretation of the data. The company is not responsible for the accuracy of the data or the interpretation of the data.

T.C. 11 Sec.

VERTICAL SCALE: 5" = 100'

Sens. 5,000 CPM



COMPANY - CHEVRON STANDARD LIMITED
WELL - CHEVRON CS BERRY F-71
FIELD - WILDCAT-ROOT RIVER AREA NORTHWEST TERRITORIES
LOCATION - N 62° 30' 21" W 122° 59' 27"

CALGARY, ALBERTA

FORMATION - DRILLING FLUID - WATER BASE MUD
ANALYSIS - FULL DIAMETER
REMARKS

PAGE - 1 of 3
FILE - CR-4-4602
DATE REPORT - MARCH 26/69
ANALYSTS - M. R. M. M.

SAMPLE NUMBER	INTERVAL REPRESENTED FEET		PERMEABILITY TO AIR MILLIDARCS				PERMEABILITY FEET	POROSITY %	POROSITY FEET	DENSITY		VISUAL EXAMINATION
	DEPTH	THICK	FWAK	KDOP	RV					BULK	GRAIN	

CORED INTERVAL 2313' - 2365'

CORE NO. 1 2313' - 2365' (REC. 52') (14 BOXES)

1	2313.0-2313.6	0.6	-	0.10	0.03	<0.01	0.14	1.8	2.52	2.76	2.81	Dense PPV.
2	2313.6-2315.0	1.4	0.10	0.88	<0.01	<0.01	1.68	1.2	1.92	2.77	2.80	PPV. STY.
3	2315.0-2316.6	1.6	1.05	85.80	69.80	154.44	154.44	6.0	10.80	2.65	2.82	LV. F.
4	2316.6-2318.4	1.8	**	2.77	0.15	4.95	4.95	2.8	4.76	2.72	2.80	SV. F.
5	2318.4-2320.1	1.7	2.91	<0.01	<0.01	0.07	0.07	0.5	0.65	2.80	2.81	Dense, STY.
6	2320.1-2321.4	1.3	0.06	<0.01	<0.01	0.41	0.41	2.7	4.32	2.74	2.82	SV. VF.
7	2321.4-2323.0	1.6	0.26	<0.01	3.07	0.44	0.44	2.4	4.08	2.75	2.82	SV. VF.
8	2323.0-2324.7	1.7	0.26	-	-	-	-	-	-	-	-	Dense
9	2324.7-2326.0	1.3	-	15.50	0.39	20.15	20.15	4.0	5.20	2.72	2.83	L. Vug, Few SV.
10	2326.0-2327.3	1.3	0.73	0.46	0.68	0.88	0.88	1.4	1.68	2.77	2.81	Few PPV. F.
11	2327.3-2328.5	1.2	0.18	0.08	<0.01	0.23	0.23	1.5	1.95	2.78	2.82	Few PPV.
12	2328.5-2329.8	1.3	0.26	0.22	<0.01	0.42	0.42	2.2	3.52	2.76	2.82	Few SV. F.
13	2329.8-2331.4	1.6	0.32	0.05	<0.01	0.54	0.54	2.8	4.76	2.76	2.84	Few SV. STY. F.
14	2331.4-2333.1	1.7	0.12	0.06	<0.01	0.19	0.19	1.5	2.40	2.79	2.83	Few SV. STY.
15	2333.1-2334.7	1.6	0.37	0.05	0.06	0.59	0.59	1.3	2.08	2.80	2.84	Few SV. STY.
16	2334.7-2336.3	1.6	0.02	<0.01	<0.01	0.04	0.04	0.2	0.36	2.80	2.81	Dense, STY.
17	2336.3-2338.1	1.8	1.01	0.27	0.06	1.62	1.62	2.8	4.48	2.75	2.83	SV. STY. F.
18	2338.1-2339.7	1.6	1.14	1.02	0.64	1.60	1.60	1.7	2.38	2.77	2.82	Few SV. STY. F.
19	2339.7-2341.1	1.4	1.18	0.24	0.15	1.77	1.77	1.8	2.70	2.76	2.81	Few SV. STY. F.
20	2341.1-2342.6	1.5	40.70	31.50	2.25	69.19	69.19	1.5	2.55	2.76	2.81	PPV. STY. F.
21	2342.6-2344.3	1.7	1.05	0.84	<0.01	1.89	1.89	0.7	1.26	2.81	2.83	Dense, STY. F.
22	2344.3-2346.1	1.8	-	-	-	-	-	-	-	-	-	Dense, Few Scattered PPV.
23	2346.1-2348.1	2.0	-	-	-	-	-	-	-	-	-	PPV. STY.
24	2348.1-2349.4	1.3	0.11	0.08	<0.01	0.14	0.14	1.2	1.56	2.79	2.83	Dense STY.
25	2349.4-2350.9	1.5	0.06	0.04	<0.01	0.09	0.09	0.9	1.35	2.78	2.81	Dense STY.

CG LAMATES & ASSOCIATES
CALGARY, ALBERTA

PAGE - 2 of 3
FILE - QNP-4-4

[illegible]

WELL:

CHEVRON CS BERRY F-71

FORMATION:

SUMMARY INTERVAL:

2313.0 - 2365.0

TOTAL FOOTAGE:

52.0

FOOTAGE ANALYZED

47.1

FOOTAGE NOT ANALYZED:

TOTAL:

4.9

DENSE

4.9

LOST

.0

DRILLED

.0

NABR

.0

RUBBLE

.0

SUMMARY

OF

ANALYZED CORE:

TOTAL

BY

PERM

RANGES:

LESS THAN 0.10 Md.

0.10

0.49 Md.

0.50

0.99 Md.

1.00

9.99 Md.

GREATER THAN 9.99 Md.

FOOTAGE	% OF ANALYZED CORE	WEIGHTED AVERAGE POROS %	POROSITY FEET	WEIGHTED AVERAGE PERM MD	PERM FEET	WEIGHTED AVERAGE RES.D OIL	WEIGHTED AVERAGE RES.D WATER
47.1	100.00	2.01	94.48	5.88	277.02	.00	.00
7.6	16.14	.92	7.01	.03	.20	.00	.00
16.4	34.81	2.05	33.56	.25	4.08	.00	.00
2.5	5.31	1.09	2.72	.66	1.64	.00	.00
15.8	33.55	2.07	32.64	1.73	27.31	.00	.00
4.8	10.19	3.86	18.55	50.79	243.78	.00	.00

PAGE: 3 of 3

FILE: CNP-4-4602

Petroleum Reservoir Engineering

APPENDIX C

SAMPLE DESCRIPTION

CHEVRON C.S. BERRY F-71

N 62° 30' 21"

W 122° 59' 27"

Sample Description

Sample study starts at 600'

- 600-1060 Shale, grey, non-calcareous, micro-micaceous. Trace of calcite-filled fractures.
- 1060-1620 Shale, grey, non-calcareous. Micro-micaceous sheen. Streaks of sandstone. Grey and light grey, medium grained (0.10 MM), calcareous, argillaceous in part. Minor dark grey and black shale.
- 1620-1690 Shale, black, fissile, pyritic, slightly dolomitic.
- 1690- Shale, black, siliceous, grading to black chert, pyritic, brecciated. Much white and clear quartz, as vein and fracture filling, and drusy quartz; quartz crystals (5.0 mm).
- Twist off - 1692'
- Lost circulation - 1700'
- Drilled 3 ft. no returns - 1703'
- 1705-1710 Limestone, medium grey, micritic, scattered fine fossil fragments. Ostracods? Dense, tight.
- 1710-1950 Limestone, brown and dark brown, micritic to microcrystalline, slightly argillaceous, slightly bituminous. Scattered (20%-30%) coarse fossil fragments, traces of Stromatoporoids, Brachiopods, Crinoid fragments; corals? in brown, argillaceous limestone matrix. Scattered calcite - filled veins and fractures. Tight. Trace of pyrite.
- 1950-1980 Limestone, brown and dark brown, micritic to microcrystalline, slightly argillaceous. Scattered (20%) crinoid fragments, fossil fragments, Ostracods, Brachiopods. Minor calcite veining and calcite crystals.
- 1980-2000 Limestone, as above, minor black, slightly calcareous, fissile, slightly bituminous shale.
- 2000-2020 Limestone, brown, microcrystalline, slightly argillaceous. Scattered fossil fragments. Ostracods. Calcite crystals and spar-fracture filling. Minor light brown, micritic limestone, trace of pellets.

- 2020-2060 Limestone, dark brown and brown, micritic to microcrystalline, dense, slightly argillaceous. Much black, slightly bituminous shale, slightly calcareous. Trace of Ostracods. Calcite crystals, fracture filling. Trace small Brachiopods. Trace pyrite.
- 2060-2080 Limestone, light brown-grey, micritic to microcrystalline, faintly argillaceous, tight. Scattered pellets, Ostracods, calcite veining. Calcite crystals. Trace pyrite. Much dark brown and brown, argillaceous limestone, minor shale, as above.
- 2080-2110 Limestone, brown and dark brown, bituminous, slightly argillaceous, micritic to microcrystalline, minor pelletoid micritic limestone. Calcite veining, slickensided calcite. Few Ostracods, trace pyrite.
- 2110-2150 Limestone, dark brown, microcrystalline, argillaceous, bituminous. Limestone, brown to grey brown, micritic, pelletoid in part, interbedded with dark brown, argillaceous limestone. Traces Ostracods. Trace calcite fracture infilling. Trace corals, crinoids.
- 2150-2180 Limestone, dark brown, microcrystalline, argillaceous, bituminous, pelletoid in part. Traces of calcite infilled fractures, calcite crystals. Few Ostracods.
- 2180-2210 Limestone, dark brown, microcrystalline, argillaceous, bituminous, tight. Minor calcite-filled fractures, trace of pyrite.
- 2210-2235 Limestone, dark brown to black, cryptocrystalline (micritic), argillaceous, bituminous, hard, dense, tight. Calcite infilling of fractures.
- 2235-2280 Limestone, grey-brown, micritic, pelletoidal. Scattered calcite crystals, interbedded micrite and pelsparite. Dense, tight.
- 2280-2290 Limestone, grey-brown, micritic, pelletoidal, dense, tight. Scattered calcite "eyes" and crystals, trace pyrite. Traces of grey-green argillaceous micritic limestone, grading to grey-green pyritic, calcareous shale.
- 2290-2300 Limestone, as above.
Shale, grey green, calcareous, pyritic, grading to and interbedded with grey-green and brownish argillaceous limestone.
- 2300-2310 Limestone and green-grey pyritic shale, as above. Dolomite, white, coarsely crystalline, trace pyrite. Good (6%-8%) intercrystalline porosity, residual pyro-bitumen, no cut or fluorescence.
- 2310-2316 As above, limestone, argillaceous limestone, calcareous shale, dolomite.

- 2365-2460 Dolomite, white, coarse crystalline. Scattered coarsely crystalline calcite. Minor grey dolomite. Trace of pyrite. Inter-crystalline and trace of vug porosity. Much bitumen infilling of inter-crystalline porosity. No cut or fluorescence.
- 2460-2500 Dolomite, white, coarse crystalline, as above. Trace of pyrite. Traces of clear quartz fragments and fine crystals. Much grey medium to coarse crystalline dolomite. Intercrystalline porosity, bituminous residue, as above.
- 2500-2510 Dolomite, grey, medium to coarse crystalline (0.50 mm), minor white, coarse crystalline dolomite. Poor intercrystalline and vug porosity, no cut or fluorescence. Trace of pyrite. Trace of anhydrite crystals in earthy dolomite matrix.
- 2510-2530 Dolomite, dark brown, microcrystalline, compact, hard, tight, slightly argillaceous. Much grey, medium to coarse crystalline dolomite, as above.
- 2530-2550 Dolomite, white and light grey, medium to coarse crystalline. Trace of intercrystalline and vug porosity.
- 2550-2560 Dolomite, fine to medium crystalline (0.125-.250 mm), dark brown, slightly argillaceous, bituminous. Trace of pyrobitumen on fracture surfaces. Trace of quartz fragments, trace of pyrite. Poor intercrystalline and vug porosity. No cut or fluorescence.
- 2560-2570 Dolomite, as above. Much light brown, cryptocrystalline, hard, dense dolomite. Fractured. Tight. Trace of pyrite, dolomite-infilled fractures.
- 2570-2600 Dolomite, light brown, microcrystalline, hard, dense, trace siliceous, fractured.
- 2600-2620 Dolomite, dark brown, microcrystalline, hard, tight, fractured. Much light brown cryptocrystalline dense dolomite.
- 2620-2680 Dolomite, light brown, cryptocrystalline to microcrystalline, hard, dense, fractured. Minor interbedding of dark brown microcrystalline hard, dolomite.
- 2680-2810 Dolomite, light brown, microcrystalline to cryptocrystalline, dense, hard, fractured. Trace of "sucrosic" marl.
- 2810-2820 Dolomite, as above. Much dark grey and black non-calcareous, pyritic, fissile shale.

- 2820-2840 Dolomite, light grey-brown, cryptocrystalline to microcrystalline, hard, dense. Trace stylolites, fractures. Trace pinpoint vug porosity. No stain, cut or fluorescence.
- 2840-2860 Dolomite, light grey-brown, as above. Trace of pinpoint vug porosity, no stain, cut or fluorescence. Minor interbedded brown, microcrystalline dolomite. Trace "dolomitized pellet limestone".
- 2860-2890 Dolomite, brown, microcrystalline, dense, trace of sucrosic dolomite. Fractured. Trace (4%-5%) of pinpoint vug and small vug porosity, no stain, cut or fluorescence.
- 2890-2940 Dolomite, brown and light brown, dense to microcrystalline, trace of sucrosic dolomite. Traces of dolomite infilled fractures. Trace of pinpoint vug porosity, no stain, cut or fluorescence. Trace of quartz fragments. Minor light grey-brown dense dolomite. Trace pyrite.
- 2940-2970 Dolomite, light brown, microcrystalline to very fine crystalline, compact. Traces of dolomite infilled fractures. Trace only of pinpoint vug porosity. No stain, cut or fluorescence. Trace of grey, micritic, argillaceous dolomite.
- 2970-2990 Dolomite, dark brown, microcrystalline to very fine crystalline, faintly bituminous. Dolomite infilled fractures. Trace pinpoint vug porosity. No cut, stain or fluorescence.
- 2990-3010 Dolomite, brown and light brown, cryptocrystalline to microcrystalline, very fine crystalline in part. Trace of light brown-grey dense micritic dolomite. Dolomite infilled fractures. Trace of quartz fragments. Trace of interbedded grey, faintly argillaceous, dense dolomite. Trace of intercrystalline porosity. No stain, cut or fluorescence.
- 3010-3020 Dolomite, light brown, dense to very fine crystalline (0.10 mm). Much dark brown, very fine crystalline dolomite, dolomite-infilled fractures. Minor light brown, micritic dolomite - dolomitized algal or pellet limestone. Trace of quartz fragments. Trace of pinpoint vug porosity, no stain, cut or fluorescence.
- 3020-3060 Dolomite, dark brown, microcrystalline to very fine crystalline, compact. Minor light brown microcrystalline to fine crystalline dolomite, sucrosic in part. Traces of dolomite infilled fractures. Trace inter-crystalline porosity. No stain, cut or fluorescence.

- 3060-3070 Dolomite, dark brown, microcrystalline, compact. Fractured. Trace of inter-crystalline porosity. No stain, cut or fluorescence.
- 3070-3080 Dolomite, dark brown, as above. Dolomite, light brown, dense, cryptocrystalline - dolomitized diamicrite?
- 3080-3090 Dolomite, dark brown, microcrystalline to very fine crystalline (0.10 mm), compact. Fractured, trace of open fractures. Minor light brown, very fine crystalline dolomite, trace light brown dense dolomite. No stain, cut or fluorescence.
- 3090-3130 Dolomite, light brown, micritic to very fine crystalline. Much dark brown microcrystalline to very fine crystalline dolomite. Fractures - dolomite infilled in part. No stain. Traces of faintly argillaceous micritic dolomite.
- 3130-3160 Dolomite, dark brown, microcrystalline to very fine crystalline. Minor light brown dolomite, sucrosic in part. Fractured, dolomite filling and lining fractures. Trace of intercrystalline and pinpoint vug porosity, no stain, cut or fluorescence.
- 3160-3190 Dolomite, light brown, micritic to very fine crystalline. Fractured. Much dark brown very fine crystalline, compact dolomite.
- 3190-3240 Dolomite, light brown, micritic to very fine crystalline, fractured. Trace of pinpoint vug, intercrystalline porosity. No stain, cut or fluorescence. Trace of pyrite. Minor dark brown microcrystalline, compact dolomite.
- 3240-3260 Dolomite, dark brown, microcrystalline, compact, dense. Dolomite infilled fractures.
- 3260-3280 Dolomite, light brown, cryptocrystalline to very fine crystalline. Trace of faintly argillaceous, dense, light brown dolomite. Fractures dolomite infilled and lined. Trace of sucrosic, light brown dolomite - no stain, cut or fluorescence. Minor dark brown dolomite, as above - caving?
- 3280-3290 Dolomite, light brown, cryptocrystalline, dense. Trace of vug porosity - no stain, cut or fluorescence. Trace of sucrosic, light brown dolomite.
- 3290-3300 Dolomite, dark brown, microcrystalline, dense, compact. Fractured, dolomite infilled and lined fractures. No stain, cut or fluorescence. Trace of pyrite.
- 3300-3320 Dolomite, very light brown, cryptocrystalline to microcrystalline, dense. Traces dolomite infilled fractures. Trace of pyrite.

- 3320-3480 Dolomite, light brown and light greenish grey, cryptocrystalline, dense. Traces of floating sand grains, much faintly argillaceous to argillaceous, dense dolomite, in part dolomitic shale. Trace of fractures. Traces of pyrite.
- 3480-3490 Dolomite, as above.
Dolomite, brown, microcrystalline, compact, fractured, trace pyritic. Trace of sandstone, medium grained, sub-rounded to well rounded, very argillaceous, bituminous, black, siliceous, slightly dolomitic matrix. Trace of white, medium grained, sub-rounded dolomitic sandstone - few coarse, well rounded, frosted grains.
- 3490-3530 Dolomite, light brown and brown, dense to microcrystalline, minor dark brown very fine crystalline dolomite.
Minor greenish-brown, faintly argillaceous, sandy dolomite, micritic dolomite. Fractured. Trace pyrite.
- 3530-3550 Dolomite, light grey brown, fine crystalline to medium crystalline, compact. Trace pyrite. Minor light brown dense dolomite.
Trace of vug porosity, no stain, cut or fluorescence.
Trace of stylolites, pyrobitumen.
- 3550-3560 Dolomite, light grey-brown, fine crystalline to medium crystalline.
Trace of white chert, pyrite. Trace fractures.
- 3560-3580 Dolomite, light grey-brown, medium to coarse crystalline (.50 mm), compact. Trace pyrite. Trace vug porosity, no stain, cut or fluorescence.
- 3580-3710 Dolomite, medium crystalline, grey-brown, compact. Minor inter-crystalline "earthy" dolomite matrix, trace breccia, fractures.
Trace pyrite. Trace of pinpoint vug and intercrystalline porosity.
No stain, cut or fluorescence.
- 3710-3730 Dolomite, grey, cryptocrystalline to medium crystalline, generally finer grained than above. Fractured, compact, tight.
- 3730-3750 Dolomite, grey, cryptocrystalline to microcrystalline. Compact and dense - brecciated. Microbreccia of dolomite fragments in light grey, earthy dolomite matrix.
- 3750-3860 Dolomite, grey, brecciated, as above. Minor brown, microcrystalline, dense dolomite. Trace pyrite. Matrix of very light grey "earthy" dolomite.
- 3860-3880 Limestone, brown and dark brown, cryptocrystalline to microcrystalline, slightly bituminous, argillaceous. Highly fractured. Much breccia, as above.

APPENDIX D

WATER ANALYSIS

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E69-9303-2

Received: Feb. 26, 1969 Reported: March 4, 1969

Operator: CHEVRON STANDARD LIMITED

Well: Location: Chevron CS Berry F-71

Elev.: K.B. 754 Grd. 742

Field or Area: Wildcat

Method of Production: D.S.T. #1

Zone/formation: Arnica

Sample Interval: 2298' - 2365'

Sampled from: 2' above tool

Sampled by: Jack Chuckry

Date: Feb. 21, 1969

Recovered: 350' of watery mud,

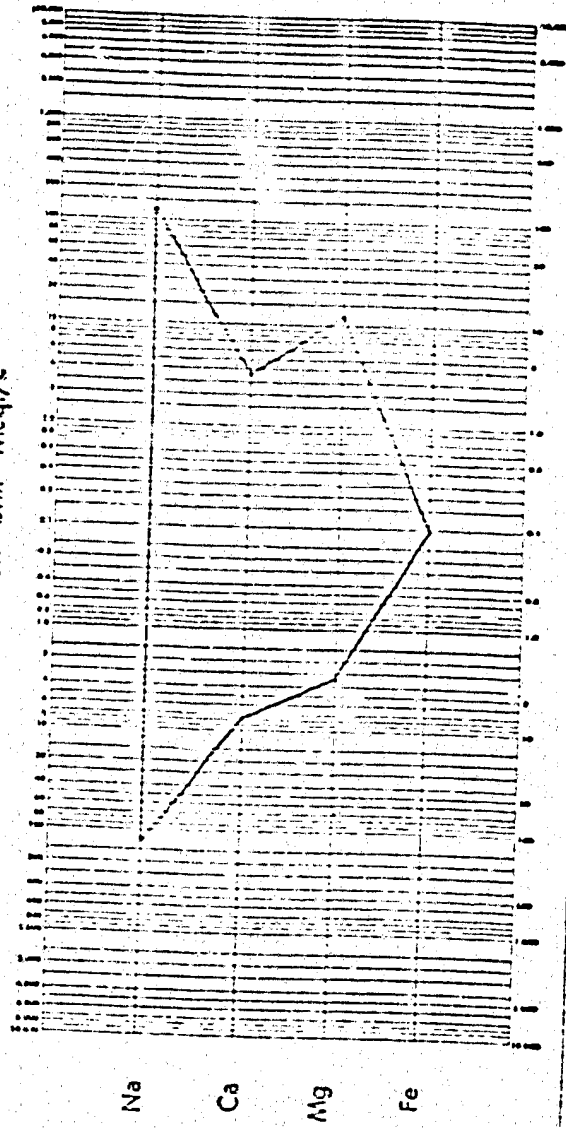
ISIP 964

OTHER PERTINENT DATA

(Signed) L. Grumbly, Chevron

Mg./L	Na	K	Ca	Mg	SO ₄	Cl	CO ₃	HCO ₃
	2937		155	44	606	4358	Trace	220
Meq./L	127.76		7.73	3.62	12.60	122.90		3.61
	45.92		2.78	1.30	4.53	44.17		1.30
Meq. %								

Total Solids Mg/L: By Evaporation 9660 Fe Present Specific Gravity 1.008 @ 60°F Observed pH 8.3 @ 72 °F
 Calculated 8320 After Ignition 8224 H₂S Nil Refractive Index 1.3346 @ 25°C Resistivity 0.777 ohm meters @ 68 °F
 Pattern Unit Meq./L



Remarks and Conclusions Analysis determined on coloured water filtered from very muddy water.

Organic matter detected in total solids.

E69-9303-1: Sampled at 175'.

RESISTIVITY: 0.777 Ohm-meters at 68°F.

Colourless water filtered from very muddy water.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. E69-9585

Received: Mar. 21, 1969 Reported: March 25, 1969 Well: Location: Chevron C. S. Berry F-71 N62 30'21" W122 59'27"
Operator: CHEVRON STANDARD LIMITED Field or Area: Wildcat
Elev.: K.B. 756.2 Grd. 740.0 Zone/Formation: Ronning
Method of Production: D.S.T. #2 Sampled from: Bottom Hole Sampler Sampled by: Operator Date: March 4, 1969
Sample Interval: 3584-3880

OTHER PERTINENT DATA

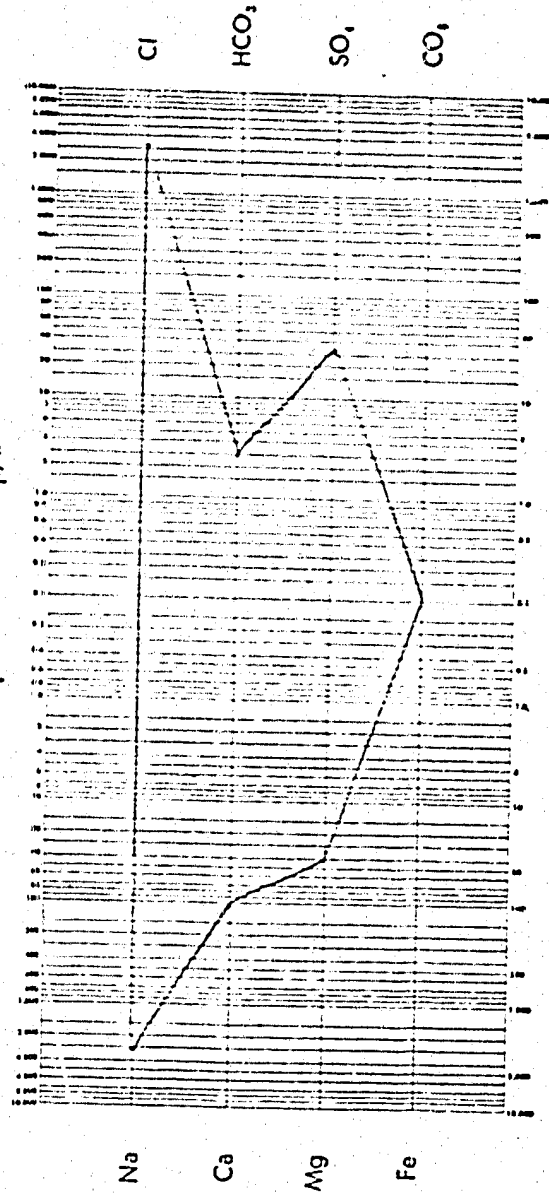
DST #2 - 3584-3880 - Rec. 300' mud and 2900' water. ISIP 1567.

(Signed) L. Grumley
ChevronStandard Limited

Meq./L	Na	K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃	
73,776			2,402	505	1,656	118,200		180	
Meq./L	3209.26		119.86	41.51	34.44	3333.24		2.95	
Meq. %	47.61		1.78	0.62	0.51	49.45		0.04	

Total Solids Mg/L: By Evaporation 202,240 Fe Trace Specific Gravity 1.3645 @60°F Observed pH 6.6 @ 74 °F
Calculated 196,719 After Ignition 191,700 H₂S Nil Refractive Index 1.134 @25°C Resistivity 0.055 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions

The water was yellow in colour and contained some sediment.

APPENDIX E

DRILL STEM TESTS DATA

DRILL STEM TESTING & CORING LTD.

EDMONTON: PHONE 433-7293

CALGARY: PHONE 269-3925

P.O. BOX 4188, EDMONTON, ALBERTA

TEST NUMBER

1

Date FEBRUARY 21, 1969.

Customer CHEVRON STANDARD LIMITED.

P.O. BOX 2296.

EDMONTON, ALBERTA.

Well Name CHEVRON CS BERRY F-71

Location N. 62°30'21" W. 122°59'27"

Area WILDCAT

Formation TIGHT HOLE

Est. Pay Thick --

Ticket No. B-2044

Purchase Order No. 22002

Interval 2298' TO 2365'

Test Duration 365 MINUTES

Initial Hydrostatic 1053

Final Hydrostatic 1046

PRE- 29

Initial Flowing 37

Final Flowing 218 after 150 mins.

Initial Shut-In 987 after 60 mins.

Final Shut-In 981 after 150 mins.

Blow VERY WEAK

Recovery 522'

Mud Type GEL BASE

Mud Wt. 9.0

Vis 54

W. L. 9.8

pH 10.5

F. C. 2/32

Condition GOOD

TEST EXTRAS: SAFETY JT. DOUBLE SHUT IN. JARS. PUMP OUT SUB. FAIL SAFE HEAD. 1EX PACKER.

Size Full Hole 8-3/4"

Size Rat Hole --

Size & Type Pipe 4-1/2" X.H.

Time Circulated 1-1/2 Hrs.

Where Circulated BOTTOM

Bit off Bottom 3.00 A.M.

Formation TIGHT HOLE

Size Rubber 3"

O.D. Drill Collar 6-1/4"

O.D. Sub or T.J. 6"

Tool Length --

Rat Hole Length --

Difference --

Total Depth 2365'

Type of Test DUAL BOTTOM HOLE

Wt. to Set Packer 29,000

20,000

To Pull Loose

Initial Puff GOOD

Gas Flow NIL

Size

Bean

3/4"

Fluid Cushion NIL

Temp. 152°

Gravity --

No. Drill Collars 13(4 1/2 H90)

Length 384'

I.D.'s 2-7/8"

PRESSURES

Started In 6:15 A.M. Recorder No.
Tool Opens 8:05 A.M. Depth Run
" Closed 8:10 A.M. Hydrostatics
" Opens 9:10 A.M. Flow
" Closed 11:40 A.M. Initial S.I.P.
" Loose 2:10 P.M. Final S.I.P.
" Out 5:00 P.M. Difference

INSIDE	OUTSIDE
2079	2080
2305'	2310'
1046-1042	1053-1046
29-212	37-218
982	987
980	981
2	6

FLUID RECOVERY

Mud 348'

Oil --

Water 174'

Total 522'

Sampled at 348', 174', 96' ABOVE TOOL & TOP OF TOOL.

Description of Fluid 348' WATER CUT MUD. 174' SALT WATER.

Witnessed By: L. GRUMBLY.

REMARKS: GOOD INITIAL PUFF ON PRE-FLOW. VERY WEAK BLOW, DECREASING THROUGHOUT FLOW PERIOD.

TEST SATISFACTORY.

J.M. CHUCKRY.

Testing Supervisor

L.F. GRUMBLY.

Customer's Representative

D.S.T. # 1

WELL NAME

CHEVRON CS BERRY F-71

DEFINITIONS

P_w = Shut in well pressure, particularly F.S.I.P. psi
 P_f = Flowing well pressure, particularly F.F.P. psi
 P_o = Reservoir pressure from F.S.I.P. or plot psi
 T = Time of test influence on reservoir usually flowing time - minutes
 t = Convenient incremental time - minutes
 Q = Daily rate of flow - mcf/day or bbls./day
 m = Slope of build up curve
 $E.D.R.$ = Estimated damage ratio

μ = Viscosity - centipoise
 k = Permeability - millidarcy
 h = Pay thickness - feet
 Z = Gas deviation factor
 $A.O.F.$ = Absolute open flow - million cubic feet/day
 $P.I.$ = Productivity index - mcf. or bbls./day/psi
 $g.o.$ = Subscript denotes gas or oil
 B = Formation volume factor

BUILD UP PRESSURE							FLOWING PRESSURE						
Rec. # 2079		Rec. # 2080		P_w	t	$T+t$	Rec. # 2079		Rec. # 2080		P_f	t	Q
Initial	Final	Initial	Final				Initial	Final	Initial	Final			
975	974	978	976		10		19	41	29	44		10	
978	977	980	979		20			56		60		20	
979	976	982	980		30			73		75		30	
982	979	985	981		40			87		91		40	
982	980	986	981		50			102		107		50	
982	980	987	981		60			117		122		60	
	980		981		70			131		136		70	
	960		981		80			144		151		80	
	980		981		90			159		165		90	
	980		981		100			173		178		100	
	980		981		110			181		187		110	
	980		981		120			189		194		120	
	980		981		130			196		202		130	
	980		981		140			203		209		140	
	980		981		150			212		218		150	

m = slope of straight line portion of build up curve

$$\begin{aligned}
kh &= \frac{162.6 Q \mu B}{m_o} \quad \text{or} \quad \frac{1637 Q g \mu Z \text{ temp}}{m_g} \\
E.D.R. &= \frac{P_o - P_f}{m_o (\log T + 1.75)} \quad \text{or} \quad \frac{P_o^2 - P_f^2}{m_g (\log T + 3.85)} \\
k &= \frac{kh}{h} \\
P.I. &= \frac{Q_o}{P_o - P_f} \quad \text{or} \quad \frac{Q_g}{P_o^2 - P_f^2}
\end{aligned}$$

psi
cycle
md ft

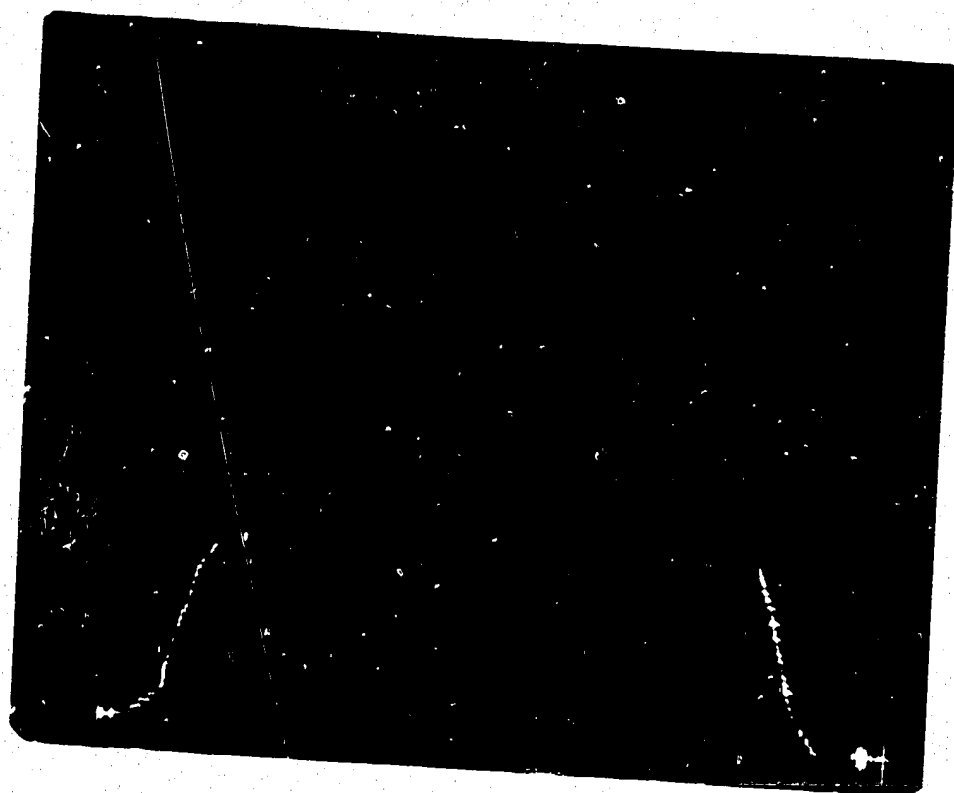
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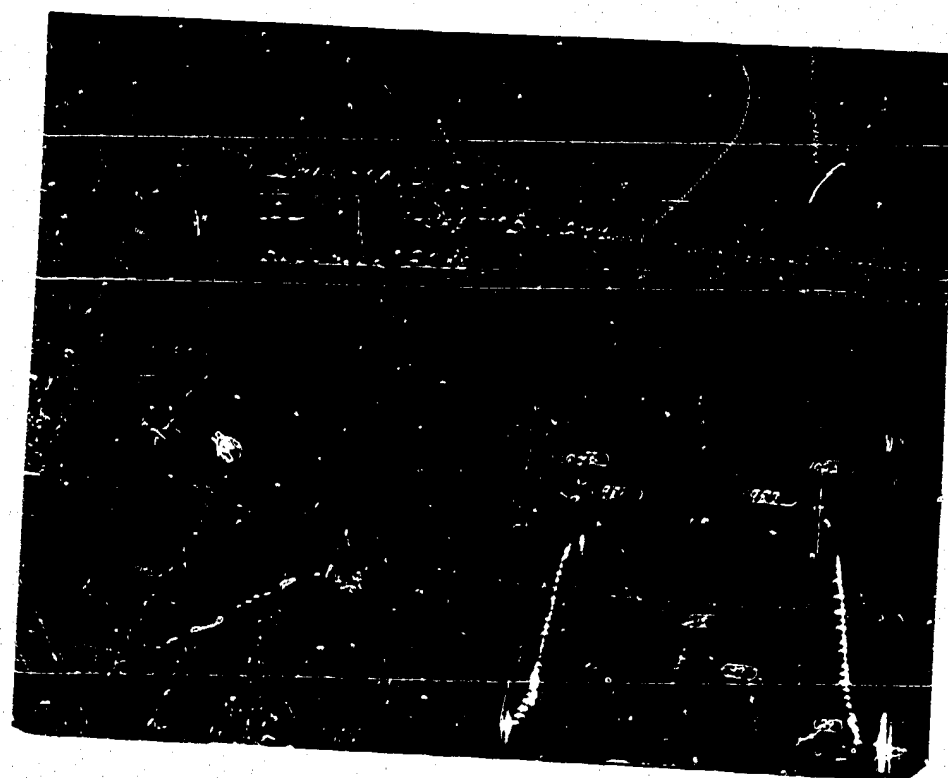
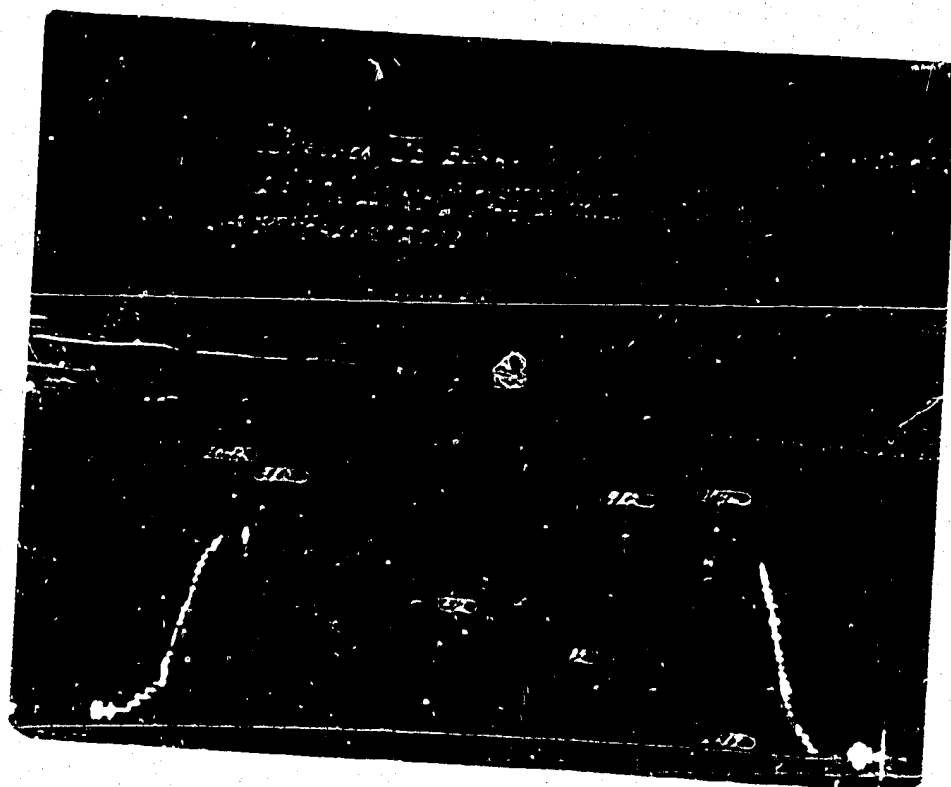
md

bbls/day/psi
mcf/day/psi

ASSUMPTIONS AND LIMITATIONS

Interpretation calculations require necessary assumptions to provide a quick estimation of many of the factors involved. Consequently, the calculations herein should be used as an estimate only, pending more complete analysis and testing. Drill Stem Testers makes no warranty express or implied as to the accuracy of such calculations, evaluations, or opinions, and shall not be liable for any loss or damage, whether due to negligence or otherwise, in connection with such calculations and opinions.





DRILL STEM TESTING & CORING LTD.

EDMONTON: PHONE 433-7293

CALGARY: PHONE 269-3725

P.O. BOX 4188, EDMONTON, ALBERTA

TEST NUMBER

2

Date MARCH 4, 1969.

Customer CHEVRON STANDARD LIMITED,

P.O. BOX 2296,

EDMONTON, ALBERTA.

Well Name CHEVRON CS BERRY F-71

Location N62°30'21" W122°59'27"

Area N.W.-T.

Formation TIGHT HOLE

Est. Pay Thick —

Ticket No. B-1046

Purchase Order No. S-21002

Interval 3584' TO 3880'

Test Duration 245 MINUTES

Initial Hydrostatic 1695

Final Hydrostatic 1688
PRE-1253

Initial Flowing 1337

Final Flowing 1567 after 90 mins.

Initial Shut-In 1568 after 60 mins.

Final Shut-In 1570 after 90 mins.

Blow GOOD

Recovery 3200'

Mud Type GEL

Mud Wt. 9.2

Vis. 50

W. L. 6.4

pH 11.5

F. C. 2/32

Condition GOOD

TEST EXTRAS: SAFETY JT. DOUBLE SHUT IN. JARS. 1EX PACKER. SAMPLER. PUMP CUT SUB.

Size Full Hole 8-3/4"

Size Rat Hole —

Size & Type Pipe 4-1/2" X.H.

Time Circulated 2-1/4" Hrs.

Where Circulated BOTTOM

Bit off Bottom 2.15 A.M.

Formation TIGHT HOLE

Size Rubber 8"

O.D. Drill Collar 6-1/4"

O.D. Sub or T.J. 6"

Tool Length 79.74'

Rat Hole Length —

Difference —

Total Depth 3880'

TEST EXTRAS: SAFETY JT. DOUBLE SHUT IN. JARS. 1EX PACKER. SAMPLER. PUMP CUT SUB.

Type of Test DUAL BOTTOM HOLE

Wt. to Set Packer 30,000

20,000

To Pull Loose

Initial Puff VERY GOOD Gas Flow NIL

Size

Bean

3/4"

Fluid Cushion

NIL

Temp. 132° Gravity —

No. Drill Collars

18(4x5H90)

Length

531.05'

I.D.'s

2-7/8"

PRESSURES

FLUID RECOVERY

Started In 9.00 A.M.

Tool Open 11.50 A.M.

" Closed 11.55 A.M.

" Open 12.55 P.M.

" Closed 2.25 P.M.

" Loose 3.55 P.M.

" Out — M.

Recorder No. —

Depth Run —

Hydrostatics —

Flow —

Initial S.I.P. —

Final S.I.P. —

Difference —

INSIDE	OUTSIDE
2079	2080
3590'	3595'
1693-1685	1695-1688
1282-1567	1337-1567
1567	1568
1567	1570
0	2

Mud 300'

Oil —

Water 2900'

Total 3200'

Sampled at —

Description of Fluid SALT WATER MIXED WITH MUD.

Witnessed By: L. GRUMBLY.

REMARKS: GOOD INITIAL AIR PUFF. GOOD AIR BLOW, DECREASING THROUGHOUT TEST.

TEST SATISFACTORY.

J.M. CHUCKRY.

Testing Supervisor

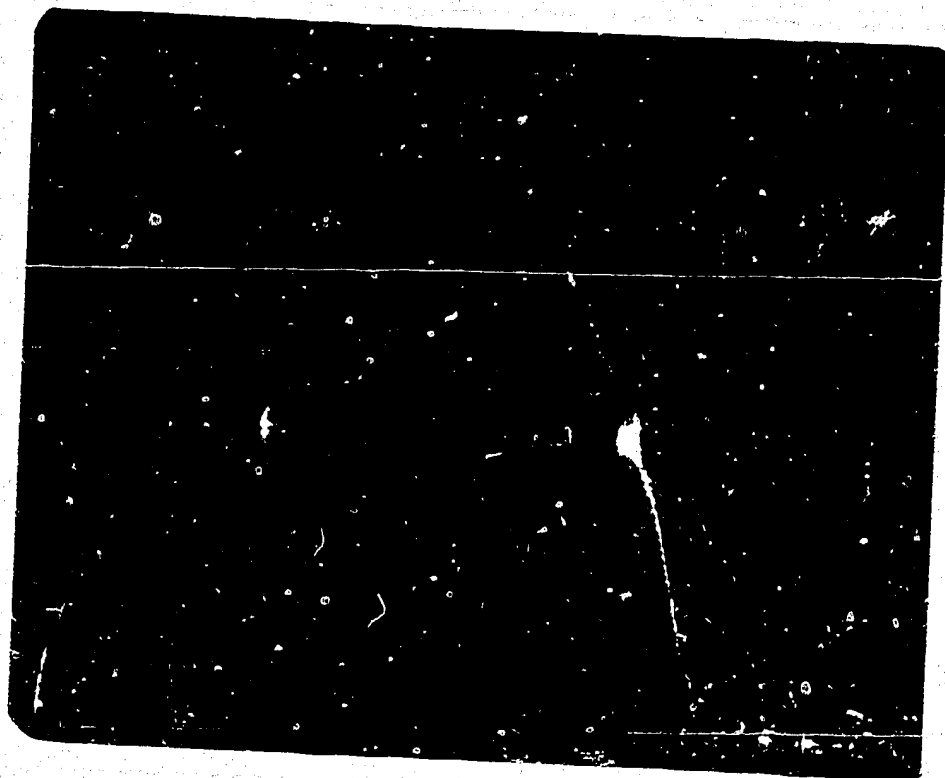
L.F. GRUMBLY.

Customer's Representative

D.S.T. # 2

WELL NAME

CHEVRON CS BERRY F-71





TOUR REPORT

CONTRACTOR

Peter Bawden Drilling

62°30'21"N 122°59'27"W. C.S. BERRY BARRY

FIELD Wildcat

PROPERTY Crown

WELL No. F-71

11 P.M.

12 M.

March 6 1969

FOR 24 HOURS ENDING

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

DRILLING ASSEMBLY			END OF MORNING TOUR					END OF DAYLIGHT TOUR					END OF AFTERNOON TOUR				
STANDS	"	D.P.	NO.				FT.	NO.				FT.	NO.				FT.
	"	D.P.	NO.				FT.	NO.				FT.	NO.				FT.
DOUBLE	"	D.P.					FT.					FT.					FT.
SINGLE	"	O.D.					FT.					FT.					FT.
	"	O.D.					FT.					FT.					FT.
DRILL COLLAR	"	O.D.	NO.				FT.	NO.				FT.	NO.				FT.
REAMER	"	O.D.	KIND				FT.	KIND				FT.	KIND				FT.
STABILIZER	"	O.D.	KIND				FT.	KIND				FT.	KIND				FT.
JARS			KIND				FT.	KIND				FT.	KIND				FT.
BUMPER SUB.							FT.					FT.					FT.
BIT OR CORE BARREL							FT.					FT.					FT.
TOTAL D.P. & TOOLS							FT.					FT.					FT.
KELLY DOWN (BELOW R.B.)							FT.					FT.					FT.
DEPTH OF TOOLS							FT.					FT.					FT.
TOUR			MORNING TOUR					DAYLIGHT TOUR					AFTERNOON TOUR				
DEPTH END OF TOUR							FEET					FEET					FEET
DEPTH START OF TOUR							FEET					FEET					FEET
FOOTAGE DRILLED							FEET					FEET					FEET

DAY WORK				HOURS				HOURS				HOURS			
				2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE	p.s.i.														
ROTARY SPEED	r.p.m.														
WEIGHT ON BIT	Tons														
p.H.															
MUD WEIGHT	#/gal.														
MUD VISCOSITY	Sec.														
MUD CAKE	32nds														
WATER LOSS	c.c.														
PIT VOLUME	Ft.-Ins.														

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR			DEVIATION RECORD		
	Kind	Depth	Reading	Kind	Depth	Reading	Kind	Depth	Reading	Kind	Depth	Reading
DRILLER	J.T. MOORE			B. J. ABBOTT								
DERRICKMAN TOOL DRSR.	L. ADERMAN			C. F. ADELMAN								
HELPER	C. ADERMAN			Lacy Ward								
HELPER	A. ADERMAN			FRED GHOST KEPPER								
HELPER	J. MARSHALL											
FIREMAN												
TOOL PUSHER												

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	8 ⁰⁰	Log down Kelly down & mouse hole Clean out logs clean mud tanks and pumps
TOUR 2		8 ⁰⁰	4 ⁰⁰	Turning out
TOUR 3				

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

5 sac cement placed in casing & plate welded on top
Nameplate attached to casingRig Released 8⁰⁰ AM March 6/69

J. F. Gumbly

SIGNATURE COMPANY ENGINEER

TOUR REPORT CONTRACTOR Bawden II
FIELD Wildcat PROPERTY Crown WELL No. F71
FOR 24 HOURS ENDING 11 P.M. March 5 1968
12 M.

CONTRACTOR Bawden II
Crown WELL No. 771

Chevron C.S. Berry F-71 62°30'21"N 122°59'27"W OTHER HOURLY OPERATING

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FOR 24 HOURS ENDING

11 P.M.

12 M.

15

WELL No. 177.....

1019

DRILLING ASSEMBLY			END OF MORNING TOUR					END OF DAYLIGHT TOUR					END OF AFTERNOON TOUR							
STANDS	"	D.P.	NO.					FT.	NO.					FT.	NO.					FT.
	"	D.P.	NO.					FT.	NO.					FT.	NO.					FT.
DOUBLE	"	D.P.						FT.						FT.						FT.
SINGLE	"	O.D.						FT.						FT.						FT.
	"	O.D.						FT.						FT.						FT.
DRILL COLLAR	"	O.D.	NO.					FT.	NO.					FT.	NO.					FT.
REAMER	"	O.D.	KIND					FT.	KIND					FT.	KIND					FT.
STABILIZER	"	O.D.	KIND					FT.	KIND					FT.	KIND					FT.
JARS			KIND					FT.	KIND					FT.	KIND					FT.
BUMPER SUB.			KIND					FT.	KIND					FT.	KIND					FT.
BIT OR CORE BARREL								FT.						FT.						FT.
TOTAL D.P. & TOOLS								FT.						FT.						FT.
KELLY DOWN (BELOW R.B.)								FT.						FT.						FT.
DEPTH OF TOOLS								FT.						FT.						FT.
TOUR			MORNING TOUR						DAYLIGHT TOUR						AFTERNOON TOUR					
DEPTH END OF TOUR								FEET						FEET						FEET
DEPTH START OF TOUR								FEET						FEET						FEET
FOOTAGE DRILLED								FEET						FEET						FEET

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1	Hel	12 ⁰⁰	3 ⁰⁰	Lay down core hbl Run in open end
	25 cks	3 ⁰⁰	4 ⁵⁰	Rif up Howes to run plugs
		4 ⁵⁰	5 ¹⁵	Mix & run plug #1
		5 ¹⁵	5 ⁴⁵	Pull 5 stands 1 single
		5 ⁴⁵	6 ⁰⁰	Mix & run plug #2
		6 ⁰⁰	8 ⁰⁰	Pull 14 stands & rig to lay down pipe
TOUR 2	JS	8 ⁰⁰	9 ⁰⁰	Lay Down 18 singles of DP
		9 ⁰⁰	10 ³⁰	WOC Plug #2
		10 ³⁰	11 ⁰⁰	Run in To Fall plug #2 @ 3220
		11 ⁰⁰	11 ³⁰	Run plug #3
		11 ³⁰	2 ³⁰	Lay Down 48 singles of DP
		2 ³⁰	4 ⁰⁰	WOC Plug #3
TOUR 3		4 ⁰⁰	5 ⁰⁰	Wait on plug #3
		5 ⁰⁰	5 ³⁰	Run in to fall plug #3 @ 1600
		5 ³⁰	6 ⁰⁰	Run plug #4
		6 ⁰⁰	8 ⁰⁰	Lay down drill pipe 13 stands
		8 ⁰⁰	10 ³⁰	Wait on plug #4
		10 ³⁰	11 ⁰⁰	Run in to fall plug #4 @ 955
		11 ⁰⁰	12 ⁰⁰	Lay down drill pipe 6 stands.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Plug #1
3 880 - 3770 - 55 sack cement
mixed with Howco skid unit. Displaced with 53661
drilling mud Plug in place 5³⁰ am.

Plug #2
3370 - 3270 - 60 sac cement 3% CaCl₂
Mixed with Howo sock w.n.f. Displaced with 46 bbl
drilling mud. Plug in place 6⁰⁰ am.

Play # 2 felt at 3220 at 11⁰⁰ AM

Plug #3 1250 - 1650 - 70 sac cement, 3 1/2 bbls. Mixed
with Howco skt. & unit. Displaced with 21 bbls drilling mud
Plug in place 11³⁰ am

Play #3 Left at 1600 - 5³⁰ pm.

Plug #4 590-490 - 66 sac cement 3 1/2 CaCl₂ Mixed with
Hoseco etc. & with, Displaced with 6 bbls water.
Plug in place 6⁰⁰ PM.

Plenty at 435-11 PM

SIGNATURE COMPANY ENGINEER

pm-167-CS

CONTRACTOR PETER BAUDEN # 11

11 CHEVRON C.S. BERRY FBI 62° 30' 21" N 122° 59' 27" OTHER HOURLY

OTHER HOURLY OPERATING DETAIL
WORK DONE

FIELD PROPERTY WELL No. 11
 11 P.M.
 FOR 24 HOURS ENDING 12 M. MARCH 4 1969

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

					DEVIATION RECORD		
SIGNATURES		MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER		S. HARTSTENSON	J. T. MOORE	B. H. ALBERT	TotCo	3880	31
DERRICKMAN TOOL DRSR.	☒	A. WADDEL	A. DOUGET	Chiff Adelman			
HELPER		J. LANGLOIS	C. KENYON	Jack Lang Lois			
HELPER		D. BELCOURT	L. WARD	Fred Ghost Keeper			
HELPER		W. GUDIS	A. ADELMAN	John Marshall			
FIREMAN							
TOOL PUSHER							

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1				
GEL	45 SAK	2:15	2:30	Circ COND Mud
CMC H.V.I.S	1 SAK	4:30		SURVEY
CAUSTIC	1 SAK		8	HOIST TO TEST. STRAP PIPE
TOUR 2				
		8:00	9:30	Make up DLT #2
		9:30	11:00	Run in w/ DLT
		11:00	11:45	Pick up 2 singles make up testing lead
		11:45	3:45	Testing
		3:45	4:00	Pull picker loose
TOUR 3				
		4:00	7:00	Pull out w/ DST.
		7:00	9:30	BREAK TESTING Tools - RECOVER CHARTS - SERVICE
		9:30	12:00	+ Lay Down
				Lay Down DC's.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Initial flow 5 min
Initial shut in 60 min
Final flow 90 min
Final shut in 90 min

Strap 3860-03
Tally 3858-09
Diff " 0.94 No Cor. =

Y

DST #2 Interval 3584 - 3880
 Bar Drill Stem Tester Dual Packer with safety joint, jare and tail
 safe head. Bottom hole sampler and two pressure recorders.
 Preflo 4 minutes, 151 at 11⁵⁵ am for 60 min V.O. at 12⁵⁵ pm for 90 min
 Strong initial puff - strong preflo, strong air blow decreasing to nil
 in 60 min. F.S.I. at 2²⁵ pm for 90 min.
 Recovery: 300 lbs mud salt water out, 2900 feet of salt water.
 Chloride content of salt water 114000 ppm.
 IHP 1730 IEP 1195 151P 1575 60 min
 FHP 1660 FEP 1570 F51P 1575 90 min complete
 BHT 132°F

Charles W. K. Test Satisfactory


SIGNATURE COMPANY ENGINEER

CONTRACTOR PETER BAWDEN RICH
WELL No. F 91 CHURCHON C.S. BERRY F 71 62° 30' 21" N 122° 59' 29" W
OTHER HOURLY OPERATIONS WORK DONE

FIELD PROPERTY WELL No. 11
 11 P.M.
 FOR 24 HOURS ENDING 12 M. MARCH 3 1969

[illegible]

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

PIPE STRAP	385936
TALCY	385623
NO CORE.	7-13

Ran Schlumberger Logs: T.D. Schlumberger 3876
D.I.L. 535 - 3872 - 2" x 5" scales
S.L.C.-GR
~~F.D.C.~~ 535 - 3874 - 2" x 5" scales

S.H.P. 1600-3875 - 5" scale

F.D.C. 1600 - 3875 - 5" scale

[illegible]

				DEVIATION RECORD		
SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	SCHRISTENSEN	J. T. MOORE	L. ADELMAN	TotCo	3840	3'
DERRICKMAN TOOL DRSR. ☐	A WADDIEL	A. ROUCET	C. ADELMAN	"	3880	3'
HELPER	J. LANGLOIS	C. KENYAN	J. LANGLOIS			
HELPER	D. BELCOURT	F. HOSTKEEPER	L. WARD			
HELPER	W. GUEBIS	A. ADELMAN	F. C. HOSTKEEPER			
FIREMAN						
TOOL PUSHER						

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN NO. 11

CHEVRON C.S. BERRY F71 62°30'21" N 122°59'29" W

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARYFIELD _____ PROPERTY _____ WELL No. F54
FOR 24 HOURS ENDING 11 P.M. MARCH 1 1969
12 M.

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P.	NO. 32	NO. 32	NO. 33
SINGLE " D.P.	NO. 1	NO. 1	NO. 2
DOUBLE " D.P.			
SINGLE " O.D.			
DC " 6/40.D.			
DRILL COLLAR " 6/40.D.	NO.	NO. 15	NO. 15
REAMER " O.D.	KIND	KIND	KIND
STABILIZER " O.D.	KIND	KIND	KIND
JARS CHOCK SUB	KIND	KIND	KIND
BOMPER SUB.			
BIT OR CHOCK SUB.			
TOTAL D.P. & TOOLS			
KELLY DOWN (BELOW R.B.)			
DEPTH OF TOOLS			
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			
DEPTH START OF TOUR			
FOOTAGE DRILLED			

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL
Kind	Amount		WORK DONE
TOUR 1			
GEL	10 SAX	12 30	HOIST
CAUSTIC	1 "	12 45	SEAR RIG ✓ B.O.P
PELTEX	2 "	5 15	WORK ON DEADLINE SHREVE IN PERM
		8	RUN IN BIT * 15 + STRAP PIPE +
			CALLIPER DRILLCOLLARS.
			DRILL
TOUR 2			
Gel	10 sax	8 00	Drill 8 3/4" hole
Caustic	2 sax	10 15	Load sample @ 3596 Geo request
PelTex	2 sax	11 00	Drill 8 3/4" hole
starch	1 sack	11 15	Ris Service + BOP ✓
Preservative	1 sack	11 30	SURVEY @ 3718 - 3°
		11 45	CIRC. DROP SURVEY
		9 00	TRIP OUT FOR TV BIT
TOUR 3			
Gel	10 sax	4	
Caustic	1 sax	4 15	
PelTex	2 sax	10 45	
		11 15	
		11 45	
		12 00	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Pipe Strap 2946.37
Pipe Tally 2942.81
con made 3.56

Hours on bit
Stab = 22 16 hrs.
Shock sub 16 hrs.

DAY WORK	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.			800	900	900	900	900	900	900	900	900	900
ROTARY SPEED r.p.m.			70	70	70	70	60	55	7 1/2	7 1/2	7 1/2	7 1/2
WEIGHT ON BIT Tons			2.5	3.0	3.0	3.0	2.0	2.5	1 1/2	1 1/2	1 1/2	1 1/2
P.H.			10.5	10.5	10.0	10.5	10.0	9.5	10.5	12.0	12.0	12.0
MUD WEIGHT #/gal.			9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
MUD VISCOSITY Sec.			3.9	3.9	3.9	3.8	3.8	3.8	3.7	4.0	3.9	3.9
MUD CAKE 32nds			2/26	2/26	2/26	2/26	2/26	2/26	2/26	2/26	2/26	2/26
WATER LOSS cc												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
15	8 3/4	909948	M/LGT 2-12-1-13						

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	S CHRISTENSEN	J.T. MAIRE	L. ADELMAN	Kind
DERRICKMAN TOOL DRSR.	A WADDEL	A. DUCHET	C. ADELMAN	Depth
HELPER	J. LANBLOIS	C. KENYON	C. KENYON	Reading
HELPER	D. BELCOURT	L. WARD	L. WARD	
HELPER	W. GULBIS	A. ADELMAN	F. GHOSTKEEPER	
FIREMAN				
TOOL PUSHER				

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN #11
CROWN WELL No. F-71

CHEVRON C.S. BERRY F71 62° 30' 21" N 122° 59' 23" W

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FOR 24 HOURS ENDING

11 P.M.
12 M.Feb 28

1969

OTHER HOURLY OPERATING DETAIL
WORK DONE

DRILLING ASSEMBLY		END OF MORNING TOUR					END OF DAYLIGHT TOUR					END OF AFTERNOON TOUR				
STANDS	" D.P.	NO. 30	28	17	57	FT.	NO. 31	29	12	21	FT.	NO. 32	29	74	25	FT.
"	" D.P.	NO.				FT.	NO.				FT.	NO.				FT.
DOUBLE	" D.P.	1		63	13	FT.					FT.					FT.
SINGLE	" O.D.					FT.	1		30	60	FT.					FT.
DC	" 6H.O.D.	3		86	50	FT.	3		96	50	FT.	3		46	50	FT.
DRILL COLLAR	" 6H.O.D.	NO. 15		44	45	FT.	NO. 15		44	45	FT.	NO. 15		44	45	FT.
REAMER	" 6H.O.D.	KIND		33	8	FT.	KIND				FT.	KIND				FT.
STABILIZER	" O.D.	KIND		9	64	FT.	KIND		4	64	FT.	KIND		4	64	FT.
JARS	" SHOCK SUB	KIND		10	01	FT.	KIND		4	70	FT.	KIND		4	70	FT.
BUMPER SUB.	" 1/2	KIND 2		4	70	FT.	KIND		10	01	FT.	KIND		10	01	FT.
BIT OR CORE BARREL						FT.			33	8	FT.			33	8	FT.
TOTAL D.P. & TOOLS				34	3	FT.			34	9	FT.			35	28	FT.
KELLY DOWN (BELOW R.B.)				34	50	FT.			35	10	FT.			35	50	FT.
DEPTH OF TOUR						FT.			35	10	FT.			35	50	FT.
MORNING TOUR		DAYLIGHT TOUR					AFTERNOON TOUR									
DEPTH END OF TOUR			34	50	FEET			35	10	FEET			35	50	FEET	
DEPTH START OF TOUR			33	80	FEET			34	50	FEET			35	10	FEET	
FOOTAGE DRILLED			70		FEET			60		FEET			90		FEET	

DAY WORK		HOURS				HOURS				HOURS			
		2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE	p.s.i.	800	800	800	800	800	800	800	800	900	900	900	
ROTARY SPEED	r.p.m.	70	70	70	70	70	70	70	70	70	70	70	
WEIGHT ON BIT	Tons	25	25	25	25	25	25	25	25	25	25	25	
p.h.		10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	
MUD WEIGHT	#/gal.	9.1	9.2	9.2	9.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1	
MUD VISCOSITY	Sec.	36	37	38	36	35	35	36	35	36	35	36	
MUD CAKE	32nds	2/6.6	6.8	7.0	6.8	6.6	7.2	7.6	7.6	7.4	7.4	7.4	
WATER LOSS	c.c.												
PIT VOLUME	Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
19	8 3/4	4019	X.S.S.R. - 3-13	63 1/2	2962	3550	588		

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT NO.	CATCHER NO.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES		MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD	
DRILLER		S. CHRISTENSEN	J. T. MOORE	L. ADELMAN	Kind	Depth
DERRICKMAN		A. WADDEL	A. DOUCET	C. ADELMAN	10100	3380
TOOL DRSR.		J. LANGLOIS	C. KENYON		"	3465
HELPER		D. BELCOURT	L. WARD	L. WARD		
HELPER		W. GULBIS	ART ADELMAN			
HELPER						
FIREMAN						
TOOL PUSHER						

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1				SERV RIG V 13.0.P
CEL	10 SAK	12:15	12:30	SURVEY
CAUSTIC	1 SAK	12:30	4:30	DRILL
PAINTER	2 SAK	4:30	5:00	CIRC SAMPLE
STARCH	1 SAK	5:00	8:00	12-11
TOUR 2				
CEL	12 SAK	8:00	10:30	DRILL 8 3/4" hole
PAINTER	2 SAK	10:30	10:45	DRILL + BOPV
CAUSTIC	1 SAK	10:45	11:00	DRILL 8 3/4" hole
STARCH	2 SAK	11:00	4:00	DRILL 8 3/4" hole
Preservative	1 SAK			
TOUR 3				
CEL	10 SAK	4:00	1:45	DRILL 8 3/4" HOLE
		7:45	8:00	RIG SERV + BOPV
		8:00	10:00	DRILL 8 3/4" HOLE
		10:00	12:00	TRIP OUT FOR BIT 14

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

STABILIZER HAS

CDP # 22 - HAS 20 7/4 hrs.
SHOCK SUB - HAS 20 1/4 hrs.FEB 25/69 DRILL COLLARS WERE CHECK BY HOOVER.
Two DRILL COLLARS - 18" SUB - 1 1/2" SUB NEED RESETTING

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN RIG

CHEVRON CSBERRY F71 62° 30' 21" N 122° 59' 27" W

☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARYFIELD _____ PROPERTY _____ WELL No. F51
11 P.M. FEB 28 19 69
FOR 24 HOURS ENDING 12 M.

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " <u>4 1/2</u> D.P.	NO. <u>28</u>	NO. <u>29</u>	NO. <u>29</u>
" " D.P.	NO.	NO.	NO.
DOUBLE " D.P.			
SINGLE " O.D.			
DC " <u>6 1/2</u> O.D.			
DRILL COLLAR " <u>6 1/4</u> O.D.			
REAMER " O.D.			
STABILIZER " O.D.			
<u>SHOCK SUB</u>			
BUMPER SUB. <u>1/2</u> 2			
BIT OR CORE BARREL <u>SUB</u>			
TOTAL D.P. & TOOLS			
KELLY DOWN (BELOW R.B.)			
DEPTH OF TOOLS			
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			
DEPTH START OF TOUR			
FOOTAGE DRILLED			

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL
Kind	Amount		WORK DONE
TOUR 1			
GEL	<u>15</u> SAK	12	SERV RIG & BOP
CAUSTIC	<u>15</u> SAK	12.15	DRILL
PELTER	<u>15</u> SAK	6.30	SURVEY
STARCH	<u>15</u> SAK	7	DRILL
TOUR 2			
GEL	<u>15</u> SAK	8.00	DRILL 8 3/4" hole
CAUSTIC	<u>15</u> SAK	10.45	Rig Service & BOP
PELTER	<u>15</u> SAK	11.00	Survey @ 3245
STARCH	<u>15</u> SAK	11.30	DRILL 8 3/4" hole
TOUR 3			
GEL	<u>15</u> SAK	4	DRILL 8 3/4" HOLE
CAUSTIC	<u>15</u> SAK	5	Rig Service & BOP
PELTER	<u>15</u> SAK	5.30	+ install W/ Indicator
STARCH	<u>15</u> SAK	12.00	DRILL 8 3/4" HOLE

DAY WORK	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.	<u>775</u>	<u>775</u>	<u>775</u>	<u>775</u>	<u>775</u>	<u>775</u>	<u>775</u>	<u>775</u>	<u>800</u>	<u>800</u>	<u>900</u>	<u>900</u>
ROTARY SPEED r.p.m.	<u>70</u>	<u>70</u>	<u>70</u>	<u>70</u>	<u>70</u>	<u>65</u>	<u>70</u>	<u>70</u>	<u>70</u>	<u>70</u>	<u>70</u>	<u>74</u>
WEIGHT ON BIT Tons	<u>24</u>	<u>24</u>	<u>24</u>	<u>22</u>	<u>24</u>	<u>26</u>	<u>25</u>	<u>25</u>	<u>25</u>	<u>24</u>	<u>25</u>	<u>25</u>
p.H.	<u>10.5</u>	<u>10.5</u>	<u>10.5</u>	<u>10.5</u>	<u>10.5</u>	<u>10.5</u>	<u>10.5</u>	<u>10.5</u>	<u>10.0</u>	<u>10.5</u>	<u>10.5</u>	<u>10.5</u>
MUD WEIGHT #/gal.	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>	<u>9.1</u>
MUD VISCOSITY Sec.	<u>38</u>	<u>36</u>	<u>39</u>	<u>39</u>	<u>38</u>	<u>40</u>	<u>40</u>	<u>38</u>	<u>37</u>	<u>36</u>	<u>36</u>	<u>35</u>
MUD CAKE 32nds	<u>2.4</u>	<u>2.2</u>	<u>2.6</u>	<u>2.2</u>	<u>2.0</u>	<u>2.0</u>	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>
WATER LOSS c.c.	<u>2.4</u>	<u>2.2</u>	<u>2.6</u>	<u>2.2</u>	<u>2.0</u>	<u>2.0</u>	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
<u>15</u>	<u>8 3/4</u>	<u>4019</u>	<u>HVX55R - 3-13</u>	<u>42 1/2</u>	<u>2962</u>	<u>3380</u>	<u>418</u>		<u>11</u>

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	<u>SCHRISTENSEN</u>	<u>J.T. MOORE</u>	<u>L. ADELMAN</u>	<u>Totco</u>	<u>3220</u>	<u>1 3/4</u>
DERRICKMAN	<u>A. WADDLE</u>	<u>L. ADELMAN</u>	<u>C. ADELMAN</u>	"	<u>3245</u>	<u>1 1/4</u>
TOOL DRSR.	<u>A. DOUCET</u>	<u>C. KENYON</u>	<u>C. KENYON</u>	"	<u>3275</u>	<u>1 3/4</u>
HELPER	<u>D. BELCOURT</u>	<u>J. LANGELOIS</u>	<u>L. WARD</u>			
HELPER	<u>W. GULBIS</u>	<u>A. ADELMAN</u>	<u>W. GULBIS</u>			
FIREMAN						
TOOL PUSHER	<u>M. King</u>					

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

STABILIZER HAS
CDP # 22 - 22 HAS
Shock sub - 22 -B. F. L.
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BANDEN
FIELD WILDCAT PROPERTY CROWN WELL No. F-91☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FOR 24 HOURS ENDING

11 P.M.

12 M.

FEBRUARY 26 1969

CHEVRON CS BERRY

62° 30' 21" N 122° 51' 27" W

OTHER HOURLY OPERATING DETAIL
WORK DONE

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P.	No. 26	No. 26	No. 29
" D.P.			
DOUBLE " D.P.			
SINGLE " O.D.			
DC " G.H.O.D.	3		
DRILL COLLAR " G.H.O.D.	No. 15		
REAMER " O.D.			
STABILIZER " O.D.			
WIRE SHOCK SUB			
BUMPER SUB.			
BIT OR CORE BARREL SUB			
TOTAL D.P. & TOOLS			
KELLY DOWN (BELOW R.B.)			
DEPTH OF TOOLS			
TOUR			
DEPTH END OF TOUR			
DEPTH START OF TOUR			
FOOTAGE DRILLED			

DAY WORK	HOURS	HOURS	HOURS
	100 A.M.	100 A.M.	100 A.M.
PUMP PRESSURE p.s.i.	775	775	775
ROTARY SPEED r.p.m.	50	65	65
WEIGHT ON BIT Tons	20	20	20
D.H.	10.5	10.5	10.5
MUD WEIGHT #/gal.	9.2	9.2	9.2
MUD VISCOSITY Sec.	40	40	40
MUD CAKE 32nds	2/64	2/64	2/64
WATER LOSS c.c.	2/64	2/64	2/64
PIT VOLUME Ft.-Ins.			

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
19	8 3/4	4079	X-55 A - 3-13	21 1/4	2962	3160	198		RUNNING

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

				DEVIATION RECORD		
SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	SCHRISTENSEN	J.T. MOORE	B. ARBOTT	Toico	2902	1 1/2
DECKMAN TOOL DSR.	A. WADDEL	L. ADOLMAN	C. ADOLMAN	1'	3025	1 3/4
HELPER	A. DOUCET	C. KENYON	P. CARON		3090	1 1/2
HELPER	D. BELCOURT	J. LANGLOIS	L. WARD		3160	1 1/2
HELPER	W. GULBIS	A. ADOLMAN	F. GOSKEEPEE			
FIREMAN						
TOOL PUSHER	M. J. ...					

MUD and CHEMICALS ADDED	Kind	Amount	From	To	OTHER HOURLY OPERATING DETAIL
TOUR 1					
STARCH	18 SAKS	12 45	12 45	1	RUN IN BIT # 14
GEL	1 SAK	5 15	5 15	5 45	SERV RIG V 13.0 P
		5 45	8		Drill
					Survey
					Drill
TOUR 2					
GEL	18 SAKS	8 00	11 35		Drill 8 3/4" hole
STARCH	2 SAKS	12 40	12 40		Pig Service Bop
CAUSTIC	1/2 SAKS	12 15	12 15		Survey @ 3025
PELTEX	1 SAK	4 00			Drill 8 3/4" hole
Preservative	1 SAK				
TOUR 3					
PELTEX	1	6 5	6 5		Drill
CAUSTIC	1	6 30	11 45		SERV RIG V 13.0 P
GEL	8	11 45	12		Survey
STARCH	1				

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

STABILIZER WRS
COP # 22 - 21 1/4
Shock Sub - 21 1/4Signature
SIGNATURE COMPANY-ENGINEER

TOUR REPORT

CONTRACTOR

PETER BAWDEN

FIELD Wildcat

PROPERTY Crown

WELL No. F71

11 P.M.

12 M.

Feb. 25

1969

62° 30' 21" N 122° 59' 27" W CSBIRBY

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FOR 24 HOURS ENDING

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " 4" D.P.	NO. 25	NO. 26	NO. 25
" " D.P.	NO.	NO.	NO.
DOUBLE " D.P.			
SINGLE " 1 1/2" D.P.	1		1
DRILL COLLAR " 6 3/4" D.P.	3		
REAMER GRANT O.D.	NO. 13	NO.	NO.
STABILIZER " O.D.	KIND 1	KIND	KIND
IRS " 7" DC	KIND 2	KIND	KIND
BUMPER SUB " 6	KIND 2	KIND	KIND
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	2 8 7 6 2 1	2 9 3 9 2 4	2 9 3 0 5 4
KELLY DOWN (BELOW R.B.)	2 3 7 9	2 2 7 6	3 1 4 6
DEPTH OF TOOLS	2 9 0 0 0 0	2 9 6 2 0 0	2 9 6 2 0 0
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	2 9 0 0	2 9 6 2	2 9 6 2
DEPTH START OF TOUR	2 8 2 7	2 9 0 0	
FOOTAGE DRILLED	7 3	6 2	

DAY WORK	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE p.s.i.	775	775	775	775	775	775	775					
ROTARY SPEED r.p.m.	58	58	58	58	58	58	58					
WEIGHT ON BIT Tons	22M	22M	22M	22M	22M	22M	22M					
D.P.H.	10.5	10.5	10.5	10.5	10.5	10.5	10.5					
MUD WEIGHT #/gal	9.1	9.1	9.1	9.2	9.2	9.2	9.2					
MUD VISCOSITY Sec	4.1	4.2	4.3	4.0	4.7	4.6	4.4					
MUD CAKE 32nds	7.6	7.0	7.6	7.6	7.6	7.6	7.6					
WATER LOSS CC												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
13	8 1/4	20055	M88 SEC 3-13	63	2433	2962	529		2-3-1

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	B. H. H. H. H.	S. CHRISTENSEN	J. T. MOORE	Kind
DERRICKMAN	C. P. Adelman	A. WADDELL	L. ADELMAN	Depth
TOOL DRSR.				Reading
HELPER	Paul Cron	A. DOUCET	C. KENYON	
HELPER	Larry Ward	D. BELCOURT	J. LANGLOIS	
HELPER	Fred Hostkeeper	W. GULBIS	A. ADELMAN	
FIREMAN				
TOOL PUSHER				

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR 1			
GEL	43 SAKS	12:00	12:15
CAUSTIC	1 SAK	12:15	6:15
DETEY	2 SAKS	6:15	6:30
PACERATIVE	1 SAK	6:30	8:00
		8	10
		10	10:15
TOUR 2			
SEARCH	3 SAK	10:15	2
DETEY	2 SAK	2	2:15
CAUSTIC	1 SAK	2:15	3:30
GEL	20 SAK	3:30	3:45
PACER	1 SAK	3:45	4
		4:00	5:00
		5:00	5:15
TOUR 3			
		5:15	5:30
		5:30	5:45
		5:45	6:00
		6:00	6:15
		6:15	6:30
		6:30	6:45
		6:45	7:00
		7:00	7:15
		7:15	7:30
		7:30	7:45
		7:45	8:00
		8:00	8:15
		8:15	8:30
		8:30	8:45
		8:45	9:00
		9:00	9:15
		9:15	9:30
		9:30	9:45
		9:45	10:00
		10:00	10:15
		10:15	10:30
		10:30	10:45
		10:45	11:00
		11:00	11:15
		11:15	11:30
		11:30	11:45
		11:45	12:00

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Stabilizer hrs.

COP 22 -
WEAR B.T. COP 14 -
GRANT -
7" DC -S. J. Gumbel
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BANDENFIELD Wildcat PROPERTY Crown WELL No. F7111 P.M. Feb 24 1969

FOR 24 HOURS ENDING 12 M.

62° 30' 21" N 122° 54' 27" W. CSBEARY

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

DRILLING ASSEMBLY		END OF MORNING TOUR					END OF DAYLIGHT TOUR					END OF AFTERNOON TOUR															
STANDS	" 4 1/2 D.P.	NO. 23	2	1	5	7	9	1	FT.	NO. 24	2	2	5	2	0	5	FT.	NO. 24							FT.		
"	D.P.	NO.							FT.	NO.							FT.	NO. 2	2	3	1	5	5	1	FT.		
DOUBLE	" D.P.								FT.								FT.								FT.		
SINGLE	" O.D.	1			3	1	0	9	FT.								FT.								FT.		
DC	" 6 1/2 O.D.	3			8	6	5	0	FT.				8	6	5	0	FT.				8	6	5	0	FT.		
DRILL COLLAR	" 6 1/2 H.O.D.	NO. 13	3	8	4	5	6		FT.	NO.			3	8	4	5	6	FT.	NO.			3	8	4	5	6	FT.
REINFORCED	O.D.	KIND 1			5	9	5		FT.	KIND				5	9	5	FT.	KIND				5	9	5		FT.	
STABILIZER	" O.D.	KIND 2			9	5	1		FT.	KIND				9	5	1	FT.	KIND				9	5	1		FT.	
JARS	7" DC	KIND 1			6	8	5		FT.	KIND				6	8	5	FT.	KIND				6	8	5		FT.	
PUMPER SUB.	7/8	KIND 2			4	7	0		FT.	KIND				4	7	0	FT.	KIND				4	7	0		FT.	
BIT OR CORE BARREL									FT.								FT.									FT.	
TOTAL D.P. & TOOLS			2	6	8	7	0	7	FT.		2	7	5	0	1	2	FT.		2	4	2	7	5	8		FT.	
KELLY DOWN (BELOW R.B.)					2	5	9	3	FT.				1	9	8	8	FT.				1	3	4	2		FT.	
DEPTH OF TOOLS			2	7	1	3	0	0	FT.		2	7	7	0	0	0	FT.		2	8	3	5	8			FT.	
TOUR		MORNING TOUR					DAYLIGHT TOUR					AFTERNOON TOUR															
DEPTH END OF TOUR			2	7	1	3		FEET			2	7	7	0		FEET			2	8	2	7			FEET		
DEPTH START OF TOUR			2	6	5	4		FEET			2	7	1	3		FEET			2	7	7	0			FEET		
FOOTAGE DRILLED					5	9		FEET					5	7		FEET				5	7				FEET		

DAY WORK	HOURS				HOURS				HOURS			
	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE p.s.i.	775	775	775	775	775	775	775	775	775	775	775	775
ROTARY SPEED r.p.m.	55	55	55	55	55	55	55	55	55	55	55	55
WEIGHT ON BIT Tons	28"	28"	28"	24"	24"	24"	22"	22"	19/22	19/22	25	25
D.H.	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	10.5	11	11
MUD WEIGHT #/gal.	9.1	9.1	9.1	9.1	9.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1
MUD VISCOSITY Sec.	42	44	45	43	47	46	45	40	41	46	45	40
MUD CAKE 32nds	25.8	25.4	26.0	25.6	26.0	26.2	26.2	26.6	27.0	27.0	27.0	26.8
WATER LOSS c.c.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
13	8 3/4	200055	M84 SEC 3-13.	2433					

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR			DEVIATION RECORD		
	Kind	Depth	Reading	Kind	Depth	Reading	Kind	Depth	Reading	Kind	Depth	Reading
DRILLER	B. H. Abbott			S. CHRISTENSEN			L. ADELMAN			1000	2695	1 1/8
DERRICKMAN	Ch. F. P. Adelman			AL WADDELL							2659	1 3/4
TOOL DRSR.											2822	1 3/4
HELPER	Paul Cronan			A. DORSET			C. KENYON					
HELPER	Larry Ward			D. BELLCOURT			J. LANCELOIS					
HELPER	Fred G. H. K. K. K.			W. GULBIS			A. ADELMAN					
FIREMAN												
TOOL PUSHER												

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1				
GEL	425 SALS	1200	125	Dals.
Caustic	15A4	130	130	Ag Service - BOP check
PELTEX	25A45	430	430	Dals.
		445	445	Survey @ 2695 - 1 1/8
		800	800	Dals.
		8	10	DRILL
		10	10 1/2	SERV. RIG V B.O.P.
TOUR 2				DRILL
GEL	24 SALS	10 1/2	2	SURVEY
STARON	2 SALS	2 30	4	DRILL
PRESERV.	1 SALS			
CAUSTIC	1 SALS			
PELTEX	1 SALS			
TOUR 3				
GEL	24 SALS	4	7	DRILL 8 3/4" HOLE
PELTEX	2 SALS	7 1/2	11 1/2	SERV. RIG V BOP
CAUSTIC	1 SALS	11 1/2	11 30	DRILL 8 3/4" HOLE
		11 30	12 00	CIRC. SAMPLE
				SURVEY

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

STab. Hns.

COP #22 - 21 3/4

Nearb. COP #14 - 21 3/4

GRANT - 21 3/4

7" DC - 21 3/4


SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *PETER BANDEN*FIELD *Wildcat*PROPERTY *CROWN*WELL No. *F71**62°30' 21" N 122° 59' 27" W CSBERRY*☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FOR 24 HOURS ENDING

11 P.M.

12 M.

*Feb 23**1969*

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS <i>4 1/2" D.P.</i>	NO. 21 <i>197058</i> FT.	NO. <i>206466</i> FT.	NO. 22 <i>212733</i> FT.
" D.P.	NO.	NO.	NO. 2
DOUBLE " D.P.			
SINGLE " O.D.	1 <i>3100</i> FT.		
<i>DC</i> " <i>6 1/2" O.D.</i>	3 <i>8650</i> FT.	3 <i>8650</i> FT.	3 <i>8650</i> FT.
DRILL COLLAR " <i>6 1/2" O.D.</i>	NO. 13 <i>38456</i> FT.	NO. <i>38456</i> FT.	NO. 13 <i>38456</i> FT.
REAMER GRANT O.D.	KIND 1 <i>595</i> FT.	KIND <i>595</i> FT.	KIND 1 <i>595</i> FT.
STABILIZER " O.D.	KIND 2 <i>951</i> FT.	KIND <i>951</i> FT.	KIND 2 <i>951</i> FT.
JARS <i>7" DC</i>	KIND <i>685</i> FT.	KIND <i>685</i> FT.	KIND <i>685</i> FT.
BUMPER SUB. <i>1/2</i>	KIND <i>470</i> FT.	KIND <i>470</i> FT.	KIND <i>470</i> FT.
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS		<i>256273</i> FT.	<i>266640</i> FT.
KELLY DOWN (BELOW R.B.)	<i>3035</i> FT.	<i>2727</i> FT.	<i>2860</i> FT.
DEPTH OF TOOLS	<i>253000</i> FT.	<i>2590</i> FT.	<i>2654</i> FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	<i>2530</i> FEET	<i>2590</i> FEET	
DEPTH START OF TOUR	<i>2272</i> FEET	<i>2530</i> FEET	
FOOTAGE DRILLED	<i>58</i> FEET	<i>60</i> FEET	

DAY WORK		HOURS						HOURS		HOURS			
		2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE	p.s.i.	775	775	775	775	775	775	775	775	775	775	775	775
ROTARY SPEED	r.p.m.	55	55	55	55	55	55	55	55	48	55	52	49/50
WEIGHT ON BIT	Tons	22 ^m	22 ^m	22 ^m	22 ^m	22 ^m	22 ^m	22 ^m	22 ^m	28	30	10/200	10/200
p.H.		10.5	10.5	10.5	10	10	10.5	10.5	10.0	10.0	10.0	10.0	10.5
MUD WEIGHT	#/gal.	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
MUD VISCOSITY	Sec	35	36	38	40	38	39	40	40	45	40	42	41
MUD CAKE	32nds	2/6.9	2/6.2	2/6.4	6.6	6.4	6.2/2	6.3/2	6.2/2	2/5.6	2/5.8	2/5.8	2/5.6
WATER LOSS	c.c.												
PIT VOLUME	Ft.-Ins												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
<i>13</i>	<i>8 3/4</i>	<i>200055</i>	<i>M88 Sec - 3-13</i>		<i>2433</i>				

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	<i>G. I. Abbott</i>	<i>S. CHRISTENSEN</i>	<i>L. ADELMAN</i>	Kind <i>100</i> Depth <i>2509</i> Reading <i>1 1/2</i>
DERRICKMAN TOOL DRSR.	<i>Cliff Adelman</i>	<i>A. WADDELL</i>	<i>A. DOUBET</i>	<i>2603</i> <i>1 1/2</i>
HELPER	<i>Paul Cannon</i>	<i>A. DOUBET</i>	<i>C. KENYON</i>	
HELPER	<i>Lacy Ward</i>	<i>D. BELLCOURT</i>	<i>J. LANGLOIS</i>	
HELPER	<i>Fred Chastka</i>	<i>W. GULBIS</i>	<i>A. ADELMAN</i>	
FIREMAN				
TOOL PUSHER	<i>M. F. King</i>			

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR 1			
<i>Gel</i>	<i>2750</i>	<i>12 30</i>	<i>Only</i>
	<i>12 30</i>	<i>12 45</i>	<i>R. Service BOP check</i>
	<i>12 45</i>	<i>5 00</i>	<i>Only</i>
	<i>5 00</i>	<i>5 30</i>	<i>Survey @ 2509 - 1 1/2</i>
	<i>5 30</i>	<i>6 00</i>	<i>Only</i>
TOUR 2			
	<i>8</i>	<i>9</i>	<i>DRILL</i>
<i>SEARCH</i>	<i>9</i>	<i>9 15</i>	<i>SEAL RIG V B.O.P</i>
<i>PROSPERITY</i>	<i>10 30</i>	<i>11</i>	<i>DRILL</i>
<i>PENTEX</i>	<i>11</i>	<i>3</i>	<i>REPLACE CHAIN IN DRAWWORKS</i>
<i>CAUSTIC</i>	<i>3</i>	<i>3 30</i>	<i>DRILL</i>
<i>GEL</i>	<i>40</i>	<i>4</i>	<i>Circ Sample (Geo Request)</i>
TOUR 3			
<i>Gel</i>	<i>4</i>	<i>5 45</i>	<i>DRILL 8 3/4" HOLE</i>
<i>15 SAVS</i>	<i>5 45</i>	<i>6 45</i>	<i>SURVEY @ 2603.10 + Rig SER.</i>
<i>CAUSTIC 15M</i>	<i>6 45</i>	<i>12:00</i>	<i>DRILL 8 3/4" HOLE</i>
<i>PENTEX 25M</i>			

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

*Stab. hrs.**GRANT - 21 hrs**CDP #22 - 21 hrs**Wenab. T.CDP #14 - 21 hrs**7" DC - 21 hrs**Stab**DC**p.c**Stab**short collar**Stab**L. F. Family*
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN
WELL No. F71

CSBERRY 62° 30' 21" N 122° 59' 27" W

FIELD Wildcat PROPERTY Crown

11 P.M.

Feb 21

1969

FOR 24 HOURS ENDING

12 M.

☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARY

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " 42 D.P.	NO. 9 178210 FT.	NO. 19 178210 FT.	NO. 19 178210 FT.
" " D.P.	NO.	NO.	NO.
DOUBLE " D.P.			
SINGLE " 2 O.D.	6297 FT.	2 8183 FT.	2 8183 FT.
DC " 62 O.D.	8650 FT.	DC 62 8650 FT.	8650 FT.
DRILL COLLAR " 64 O.D.	NO. 38456 FT.	NO. 38456 FT.	NO. 38456 FT.
REAMER " O.D.	KIND	KIND	KIND
STABILIZER " O.D.	KIND	KIND	KIND
JARS	KIND	KIND	KIND
BUMPER SUB. 1/2	470 FT.	470 FT.	470 FT.
BIT OR CORE BARREL	298 FT.	298 FT.	298 FT.
TOTAL D.P. & TOOLS			
KELLY DOWN (BELOW R.B.)	4100 FT.		
DEPTH OF TOOLS	236381 FT.		230368 FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	2365 FEET		2303 FEET
DEPTH START OF TOUR	2320 FEET		2323 FEET
FOOTAGE DRILLED	45 FEET		REAMED 20 FEET

DAY WORK	HOURS	HOURS	HOURS
	100 A.M. 200 A.M. 600 A.M. 800 A.M. 1000 A.M. 1200 A.M. 200 P.M. 400 P.M. 600 P.M. 800 P.M. 1000 P.M. 1200 P.M.		
PUMP PRESSURE p.s.i.	300	650	650
ROTARY SPEED r.p.m.	60	60	60
WEIGHT ON BIT Tons	24m	163m	163
p.H.	10.5	10.5	10.5
MUD WEIGHT #/gal.	9.0	9.0	9.0
MUD VISCOSITY Sec.	57	59	44
MUD CAKE 32nds	292	291	42
WATER LOSS cc.			
PIT VOLUME Ft.-Ins.			

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION
6A	8 3/4	92662	WRS HW OPEN	14	2313	2365			REAM RATHOLE.
10B	8 3/4	154560	M 9 J SEC. 2.14 + 1.13	3 1/2	2303	2323			REAM RATHOLE

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	Bill Abbott	S CHRISTENSEN	L ADELMAN	Kind Depth Reading
DERRICKMAN	Cliff Adelman	A WADDELL		
HELPER	Paul Canon	A DOUCET	C KENYON	
HELPER	Lacy Wand	D BELLCOURT	J LAMGLOIS	
HELPER	Fred GHOSTKEEPER	W GULBIS	A ADELMAN	
FIREMAN				
TOOL PUSHER	M. X. King			

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAILS WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	12 ¹⁵	REAR RAT HOLE.
GEL	10 gal	12 ¹⁵	12 ³⁰	Rig Service + BOP check.
Chastic	15 gal	12 ³⁰	1 ¹⁵	REAR RAT HOLE.
Bener	2 gal	1 ¹⁵	2 ⁴⁵	Circ To Cond Hole For Dst IVol.
		2 ⁴⁵	3 ⁰⁰	Drop Survey @ 2365
		3 ⁰⁰	4 ¹⁵	Pullout For Dst, Double Strap.
		4 ¹⁵	6 ¹⁵	Make up Dst.
		6 ¹⁵	7 ¹⁵	Run in W/TEST.
TOUR 2		7 ¹⁵	7 ⁴⁵	Make up TESTING HEAD.
		7 ⁴⁵	8 ⁰⁰	TESTING
		8	2 ¹⁵	TESTING
		2 ¹⁵	3 ³⁰	HOIST
		3 ³⁰	4	BREAK DOWN D.S.T. #1
TOUR 3		4	4 ¹⁵	Rig SER. + BOP ✓
		4 ¹⁵	5 ¹⁵	SER. D.S.T
		5 ¹⁵	6 ³⁰	PICK UP STABS. + MAKE BIT
		6 ³⁰	8 ³⁰	TRIP IN BIT
		8 ³⁰	12:00	BREAK CIRC. REAM TO Bottom 2303 TO 2323

TOUR REPORT

CONTRACTOR *PETER J. ANDERSON*
FIELD *W. 1st St* PROPERTY *Crown* WELL No. *F71*

62° 30' 21" N 122° 59' 27" W CSBERRA

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARYFOR 24 HOURS ENDING 11 P.M. *Feb 20* 19*69*
12 M.OTHER HOURLY OPERATING DETAIL
WORK DONE

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS "4" D.P.	NO. 19 178210 FT.	NO. 19 178210 FT.	NO. 19 178210 FT.
" D.P.	NO.	NO.	NO.
DOUBLE " D.P.			
SINGLE " O.D.			
OC "6 1/2" O.D.	8650 FT.	8650 FT.	8650 FT.
DRILL COLLAR "6 1/2" O.D.	38456 FT.	38456 FT.	38456 FT.
REAMER " O.D.			
STABILIZER " O.D.	298 FT.	298 FT.	298 FT.
JARS	605 FT.	605 FT.	605 FT.
BLANK SUB. <i>1/8</i>	470 FT.	470 FT.	470 FT.
BIT OR CORE BARREL	5900 FT.	5900 FT.	5900 FT.
TOTAL D.P. & TOOLS	232589 FT.	232589 FT.	232589 FT.
KELLY DOWN (BELOW R.B.)	1811 FT.	3611 FT.	3911 FT.
DEPTH OF TOOLS	23440 FT.	2362 FT.	23650 FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	2344 FEET	2362 FEET	2365 FEET
DEPTH START OF TOUR	2317 FEET	2344 FEET	2362 FEET
FOOTAGE DRILLED	27 FEET	18 FEET	3 FEET

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL
TOUR 1			
GEL	205 HRS	445	CUT CORE NO 1
Benev	3 SAR	500	Rig Service + BOP Check
		800	CUT CORE NO 1
TOUR 2			
		8	CUT CORE #1
TOUR 3			
CAUSTIC	1	4.00	FINISHED CUTTING CORE 1"
GEL	30 SAR	6.00	HOIST TO RECOVER CORE
Benev	3 SAR	7.45	RECOVER + BOX CORE SER. CORE 08L
		10.00	STD IN DERRICK
		10.00	SER. RIG + BOP
		10.15	RUN IN BIT
		11.15	REAMED BIT HOLE 2313 to 2320.
		11.15	
		12.00	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

STABILIZER HAS
7" DC - No loss
GRANT - " "
COP #22 - " "
NEAR BIT COP #24 - " "
Core #1 2313 - 2365 - Recovered 52 feet.

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
1B	8 1/16	7326	W	18 3/4	2313	2365	52	52	Good
6A	8 3/4	82662	WRJ HW OPEN		2313				

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

				DEVIATION RECORD		
SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	B. H. Abbott	S. CHRISTENSEN	L. ADELMAN	Totco		
DERRICKMAN TOOL DRSR.	Ch. F. Adelman	A. WADDELL				
HELPER	Paul Cannon	A. DOUCET	C. KENYON			
HELPER	L. W. Ward	D. BELLCOURT	L. L. ANGLIS			
HELPER	Fred Ghostkeeper	W. GULBIS	A. ADELMAN			
FIREMAN						
TOOL PUSHER	J. J. Moore					

P. J. O'Connell
SIGNATURE COMPANY ENGINEER

FIELD Wildcat

CONTRACTOR:

PETER BANDEN R: 511

CSBERRY

62° 30' 21" IV

122° 59' 27" W

OTHER HOURLY OPERATING DETAIL
WORK DONE

☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FOR 24 HOURS ENDING

11 P M

12 M.

WELL No. 111

1969

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR										
STANDS	4 1/2 D.P.	NO. 18	1	88	93	8	FT.	NO. 19	1	78	35	9	FT.	NO. 18						FT.
"	D.P.	NO.					FT.	NO.					FT.	NO.						FT.
DOUBLE	" D.P.						FT.						FT.							FT.
SINGLE	4 1/2 O.D.	2		62	59		FT.						FT.	2	1	75	06	9		FT.
OC	" 6 1/2 O.D.	3		86	50		FT.			86	50		FT.			86	50			FT.
DRILL COLLAR	" 6 1/4 O.D.	NO. 13		38	65	6	FT.	NO.		38	65	6	FT.	NO.		38	45	6		FT.
REAMER	" O.D.	KIND					FT.	KIND					FT.	KIND						FT.
STABILIZER	" O.D.	KIND 3		17	44		FT.	KIND		17	44		FT.	KIND			29	8		FT.
STAB	" O.D.	KIND 1		68	5		FT.	KIND		68	5		FT.	KIND			60	5		FT.
BUMPER SUB.	Y0	KIND		47	0		FT.	KIND		47	0		FT.	KIND			47	0		FT.
BIT OR CORE BARREL							FT.						FT.							FT.
TOTAL D.P. & TOOLS			22	54	02		FT.		22	85	64		FT.		23	94	43			FT.
KELLY DOWN (BELOW R.B.)				18	98		FT.			30	36		FT.			22	57			FT.
DEPTH OF TOOLS			22	73	00		FT.		23	16			FT.		23	17	0			FT.
TOUR		MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR										
DEPTH END OF TOUR			22	73		FEET			23	16		FEET			23	17			FEET	
DEPTH START OF TOUR			21	98		FEET			22	73		FEET			23	13			FEET	
FOOTAGE DRILLED				85		FEET				43		FEET				4			FEET	

DAY WORK		HOURS								HOURS			
		2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE	p.s.i.	650	650	650	650	650	650	650					500
ROTARY SPEED	r.p.m.	45	45	45	54	55	55	55					50
WEIGHT ON BIT	Tons	31 ^m	31 ^m	31 ^m	22 ^m	22	27	27					15 ^m
p.H.		10.5	10.5	10.5	10.					/	/		10
MUD WEIGHT	#/gal.	8.9	8.9	8.9	8.9	9.0	9.9	9.9	9.9				89
MUD VISCOSITY	Sec.	46	46	47	45	45	46	50	56				47
MUD CAKE WATER LOSS	32nds c.c.	29.2	29.3	29.1	29.6	29.4	29.6/2	29.8/2					29.0

[illegible][illegible]

				DEVIATION RECORD		
SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
				DRILLER	B: 11 Abbott	S CHRISTENSEN
DERRICKMAN TOOL DRSR. ☐	Ch: F F Adelman	A WADSWELL	Ch: F F Adelman		2293	1 1/4"
HELPER	Paul Cron	A DOUCET	Ch: F F Keyon		2316	1 1/4"
HELPER	Lacy Ward	D BECCOURT	Jean Langlois			
HELPER	Fred Host Keeper	W GUCBAS	Art. Adelman			
FIREMAN						
TOOL PUSHER	D G Mamo					

MUD and CHEMICALS ADDED		From	To
Kind	Amount		
TOUR 1		12 ⁰⁰	1 ⁰⁰
		1 ⁰⁰	1 ¹⁵
GEL	125 hrs	1 ¹⁵	1 ⁴⁵
CAUSTIC	134 hr.	1 ⁴⁵	6 ¹⁵
10 Benz	103 hr	6 ¹⁵	6 ³⁰
		6 ³⁰	6 ⁴⁵
		6 ⁴⁵	8 ⁰⁰
		8	10 ¹⁵
TOUR 2		10 ¹⁵	10 ³⁰
GEL -	20 SAH	10 ³⁰	10 ⁴⁵
CAUSTIC -	25x.	10 ⁴⁵	1 ³⁰
Benz 4	46x	1 ³⁰	2
		2	4
TOUR 3		4 ⁰⁰	4 ⁴⁵
		4 ⁴⁵	5 ⁰⁰
		5 ⁰⁰	6 ¹⁵
		6 ¹⁵	7 ⁰⁰
		9 ⁰⁰	10 ⁰⁰
		10 ⁰⁰	11 ⁰⁰
		11 ⁰⁰	12 ⁰⁰

DATE
RIG SERVICE & BOP CHECK.
CIRC SAMPLES GEO REQUEST.
DATE
Circ Prior To Survey
Survey @ 2261 - 1 1/2"
DATE
DRILL
SERV RIG ✓ B.O.P
Survey 2293 1 1/2"
DRILL
CIRC SAMPLE GEO REQUEST
CIRC COND MUD TO CORE
Circ Cond Mud.
Survey @ 2316 - 1 1/2"
HOIST TO CORE.
Lay Down STAB. sensor & pickup Core BBL
Run in W/ Core BBL. (Double STAB)
Circ Prior To Coring.
Cut Core No 1.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Stabilizer hrs	2316.50	Boat.
17" DC - 11 3/4 hrs	2313.01	Strap.
GRANT - 11 3/4 hrs	Corr.	3.49 D.F.F.
CDD #22 - 11 3/4 hrs		
NEARBY. CDD #24 - 11 3/4 hrs	Corr	made

L. F. Venable
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAYDON RIG 11
F21 CHEVRON CS BERRY F
☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARY

 FIELD _____ PROPERTY _____ WELL No. _____
 FOR 24 HOURS ENDING 11 P.M. Feb 18 1969
 12 M.

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " 4" D.P.	No. 16	No. 17	No. 18
SINGLE " D.P.	No. 1	No.	No. 2
DOUBLE " D.P.			
SINGLE " O.D.			
DC " 6 1/2" O.D.	3		
DRILL COLLAR " 6 1/2" O.D.	No. 13	No.	No.
GRANT STAB	KIND	KIND	KIND
STABILIZER 2 " 6 1/2" O.D.	KIND	KIND	KIND
JARS DC 7" 00	KIND	KIND	KIND
BUMPER SUB. 2			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	203432	209209	216003
KELLY DOWN (BELOW R.B.)	2968	3095	28
DEPTH OF TOOLS	2064	2128	2188
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	2064	2128	2188
DEPTH START OF TOUR	2034	2064	2128
FOOTAGE DRILLED	30	64	60

DAY WORK	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE p.s.i.	650				650	650	650	650	650	650	650	650
ROTARY SPEED r.p.m.	70				50	54	54	54	50	50	50	50
WEIGHT ON BIT Tons	21				23	23	23	28	28	32	32	32
p.h.	10				9.0	10	10	10	10	10	10	10
MUD WEIGHT #/gal.	88				89	89	89	89	89	89	89	89
MUD VISCOSITY Sec.	45				41	42	42	44	41	42	42	45
MUD CAKE 32nds cc.	11 1/32				9.2	9.6	9.8	9.5	9.4	9.2	9.4	9.4
WATER LOSS cc.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
11	8 3/4	166131	DMJ 2-14-1-13	9	1977	2055	78		2-14-1-13
10	8 3/4	154500	M8J 2-14-1-13	14 1/2	2055	2188	133		RUNNING

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	SCHRISTENSEN	B. Abbott	SCHRISTENSEN	Toto	2055	1 1/2
DERRICKMAN TOOL DRSR.	L. ADELMAN	CL. F. F. Adelman	4 W. D. DEIL		2126	1 1/8
HELPER	C. KENYON	PAUL CAROW	A. DOUCET		2168	1
HELPER	J. LANGLOIS	L. H. W. W. W.	D. BELLCOAT			
HELPER	A. ADELMAN	FRED G. G. G.	W. GULBIS			
FIREMAN						
TOOL PUSHER						

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL
Kind	Amount		WORK DONE
TOUR 1			
GEL	12 SAK	12 15	SRV RIG - 13.0.1
BENEX	2	12 30	DRILL
		3 15	SURVEY 1 MISRUN
		3 30	WORK PLUGGET JET
		4 45	HOIST
		5	CHECK MOTOR SHUT OFF
		6 30	PICK UP 2 STABILISERS + RUN IN W/BI
		8	DRILL
TOUR 2			
GEL	25 SAKS	9 00	Dals
Caustic	1 SAK	9 15	Rig Service + BOP check
		9 30	Dals
		3 15	Line Pull to Survey
		3 30	Survey @ 2126 - 1 1/2
		3 45	Dals
CLEAN SHAKER TANK		4	SRV RIG - 13.0.1
		4 15	DRILL
TOUR 3			
GEL	30	8 45	CIRL TO SURVEY
		9	SURVEY
		9 30	DRILL
		12	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Stabiliser hrs.
 7" DC - 16 1/2 hrs
 GRANT - 14 1/2 hrs
 CDP #22 - 16 1/2 hrs
 Near B.T. CDP #14 - 14 1/2 hrs

Conservation Board Check
 BOPs + Motor shut off OK.

[Signature]
 SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BANDEN RICH
171 CHEVRON CS BERRY 62° 30' 21" N 122° 59' 27" W☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARYFIELD _____ PROPERTY _____ WELL No. _____
FOR 24 HOURS ENDING 12 M. Feb 17 1969

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P.	NO. 15 140634 FT.	NO. 15 140634 FT.	NO. 16 150086 FT.
SINGLE " D.P.	NO. 1 3163 FT.	NO. 1 6304 FT.	
DOUBLE " D.P.			
SINGLE " O.D.			
DC " 6 1/2 O.D.	3 8650 FT.		3 8650 FT.
DRILL COLLAR " 6 1/2 O.D.	NO. 13 38656 FT.	NO. 13 38656 FT.	NO. 13 38656 FT.
GRANT STAB	KIND 793 FT.	KIND 1 1464 FT.	KIND 464 FT.
STABILIZER 3" 6 1/2 O.D.	KIND 951 FT.	KIND 685 FT.	KIND 685 FT.
JARS DC 3" O.D.	KIND 885 FT.	KIND 470 FT.	KIND 470 FT.
DOWNER SUB. 6"	KIND 420 FT.	KIND 298 FT.	KIND 298 FT.
BIT OR CORE BARREL SUB			
TOTAL D.P. & TOOLS	198008 FT.	196861 FT.	2034 FT.
KELLY DOWN (BELOW R.B.)	2998 FT.	2039 FT.	
DEPTH OF TOOLS	1980 FT.	198200 FT.	2034 FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	1980 FEET	1982 FEET	2034 FEET
DEPTH START OF TOUR	1951 FEET	1970 FEET	1982 FEET
FOOTAGE DRILLED	19 FEET	12 FEET	52 FEET

DAY WORK	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE p.s.i.			650	650	640			650	650			
ROTARY SPEED rpm			45	45	45			84	84			
WEIGHT ON BIT Tons			12	12	25			15	25			
p.H.			10.3	10.5	10			10				
MUD WEIGHT #/gal.			9	9	8.9			9.0	8.9	9.0	9.0	9.0
MUD VISCOSITY Sec			42	45	46			41	40	42	44	43
MUD CAKE 32nds			9 1/2	9 3/4	9 1/2			29.6	29.8	29.8	29.8	29.8
WATER LOSS C.C.												
PISTON VOLUME Ft.-ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
10	8 1/4	154500	SEC M.B.T. 2 1/4-1 1/2	4 3/4	1951	1977	26		171-1
11	8 1/4	16037	DMT SEC 2 1/4-1 1/2	8	1977	2034	57		Running

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.
10								

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	S CHRISTENSEN	Bill Abbott	S CHRISTENSEN	1060	1951	1 1/2
DERRICKMAN TOOL DRSR.	C ADALMAN	Ch. F. Adelman	A. WADDELL	1977	1977	1 1/4
HELPER	C KENYON	Paul Carson	A. DOUGET	2000		1 1/4
HELPER	J. LANGLOIS	Larry Ward	D. BECCOURT	2034		1 1/4
HELPER	G. ADALMAN	Fred. G. K. KESLER	A. ADALMAN			
FIREMAN						
TOOL PUSHER						

MUD and CHEMICALS ADDED	Kind	Amount	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR 1	GEL	700	12	12:15	SEAR RIG & BOP
	CAUSTIC	50	12:15	4:30	TRIP FOR BIT 10 Pick up 2 STABLER & 6" DRILL COLLAR
TOUR 2			8:00	9:15	Dials
			9:15	9:30	Rig Service & BOP Check
			9:30	9:45	Survey (cannot get survey barrel)
			9:45	10:15	Work plugged jets
			10:15	12:00	Hoist for survey BOP & New Bit
			12:00	1:00	Unplug Bit Stab - change position of Stab - Lay 2 Stab down
TOUR 3			1:00	2:15	Run in w/B.T.
			2:15	2:45	Clean 15 ft. to bottom
			2:45	3:00	Survey @ 1977 - 1 1/2
			3:00	4:00	Dials
			4:00	6:00	Dials
			6:00	6:15	Rig Service & BOP Check
			6:15	6:30	Survey @ 2000 - 1 1/2
			6:30	11:30	Dials
			11:30	11:15	Survey 11:15 12 WORK PROGRESS JET

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

STABLER HOURS
11:00 12 3/4 hrs
GRANT 4 3/4 hrs
CDP 22 - 12 3/4 hrs
ON BIT CDP 14 4 3/4 hrs

[Signature]
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR Bowden #11

Chevron C.S. Berry F 71 62° 30' 21" N 122° 59' 23" W

☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARYFIELD PROPERTY WELL No. F-71
11 P.M. Feb 16 1969
FOR 24 HOURS ENDING 12 M.

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P.	NO. 14	NO. 14	NO. 15
Single " D.P.	NO. 1	NO. 1	NO. 1
DOUBLE " D.P.			
SINGLE " O.D.			
" O.D.			
DRILL COLLAR " 6 1/2 O.D.	NO. 3	NO.	NO. 13
REAMER D.C. O.D.	KIND 15	KIND	KIND
STABILIZER " 6 3/8 O.D.	KIND	KIND	KIND
JARS	KIND	KIND	KIND
BUMPER SUB.			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS			
KELLY DOWN (BELOW R.B.)			
DEPTH OF TOOLS			
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR			
DEPTH START OF TOUR			
FOOTAGE DRILLED			

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL
Kind	Amount		WORK DONE
TOUR 1			
Gel	1600		Drill
			Service Rig & B.O.P
			Survey
			Drill
			Survey
			Work Plugget sets
			Drill
TOUR 2			
Gel	500		Drill
			Service Rig & B.O.P check
			Drop Survey
			Trip for new bit
			Drilling
			Clean out LCM from valves in No 1 pump
			Drill
			Pull for wash out
TOUR 3			
			Rig service & B.O.P check
			Lay down 2 D.C
			Run in
			Drill
			Survey
			Drill
			Survey

DAY WORK	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.	550	550	550	550	T	650	T		650	650	650	650
ROTARY SPEED r.p.m.	65	65	65	65	R	100	R		85	72	72	72
WEIGHT ON BIT Tons	10	10	10	10	1	15			15	18	18	18
p.H.	10.5	10.5	10.5	10.5	P	10		P				
MUD WEIGHT #/gal.	8.9	8.9	8.9	8.9		8.9			9.0	8.9	9.0	8.9
MUD VISCOSITY Sec.	40	43	45	50		41			39	39	44	41
MUD CAKE 32nds												
WATER LOSS c.c.	10	9.8	10	10		9.8			10	9.8	9.8	9.8
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
8	8 3/4	6364	DDVJ 3-14	13 3/4	1905	1908	103		3-3-1
9	8 3/4	6230	DDVJ 2-14	1-13	1908	1924	16		1-1-1
9A	8 3/4	6230	DDVJ 2-14	1-13	1924	1951	26		2-2-1

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

				DEVIATION RECORD		
SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	S Christensen	Bell Abbott				
DERRICKMAN TOOL DRSR.	L Adelman	C Adelman	A Waddell			
HELPER	C Kenyon	P Canon	A Doucet			
HELPER	I Longlois	L Ward	D Bellcourt			
HELPER	A Adelman	F. Ghostkeeper	L. Ward			
FIREMAN						
TOOL PUSHER	John J. Mene					

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Stabilizer Hours
C.D.P. 22.15 3/4

8 drill collar washed at box end

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN
F 71

CHURON C S BERRY 120° 30' 2" N 122° 59' 27" W

☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARYFIELD _____ PROPERTY _____ WELL No. _____
11 P.M.
FOR 24 HOURS ENDING 12 M. FEB 15 1969

REDRILLING ASSEMBLY		END OF MORNING TOUR					END OF DAYLIGHT TOUR					END OF AFTERNOON TOUR																			
STANDS	D.P.	NO.	1	2	3	8	3	FT.	NO. 13	1	2	3	8	3	FT.	NO. 13	1	2	3	8	3	FT.									
Singles	D.P.	NO.						FT.	NO. 1				3	1	4	FT.	NO. 2				6	2	7	1	FT.						
DOUBLE	D.P.							FT.								FT.									FT.						
SINGLE	O.D.							FT.	+				3	1	4	FT.									FT.						
DC	O.D.	3				8	6	5	0	FT.				8	6	5	0	FT.				8	6	5	0	FT.					
DRILL COLLAR	O.D.	NO. 15				4	4	5	5	9	FT.	NO.				4	4	5	5	9	FT.	NO.				4	4	5	5	9	FT.
REAMER	O.D.	KIND						FT.	KIND							FT.	KIND									FT.					
STABILIZER	O.D.	KIND 2				9	5	1	FT.	KIND				9	5	1	FT.	KIND						4	6	4	FT.				
JARS		KIND						FT.	KIND							FT.	KIND									FT.					
BUMPER SUB.	2	KIND				4	7	0	FT.	KIND				4	7	0	FT.	KIND 1						4	7	0	FT.				
BIT OR CORE BARREL	SUB							FT.								FT.								2	9	8	FT.				
TOTAL D.P. & TOOLS						1	7	6	5	1	3	FT.					FT.				1	8	2	5	9	5	FT.				
KELLY DOWN (BELOW R.B.)								1	7	8	7	FT.						FT.						3	9	0	5	FT.			
DEPTH OF TOOLS						1	7	8	3	FT.							FT.				1	8	6	5	FT.					FT.	
TOUR		MORNING TOUR						DAYLIGHT TOUR						AFTERNOON TOUR																	
DEPTH END OF TOUR						1	7	8	3	FEET.						1	8	0	5	FEET						1	8	6	5	FEET	
DEPTH START OF TOUR						1	7	5	1	FEET						1	7	8	3	FEET						1	8	0	5	FEET	
FOOTAGE DRILLED						3	2	FEET								2	2	FEET								6	0	FEET			FEET

DAY WORK	HOURS				HOURS				HOURS			
	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.	350	350	350	350	350	400	400		9.0	9.0	550	550
ROTARY SPEED r.p.m.	70	70	70	70	60	52	50				80	80
WEIGHT ON BIT Tons	12	12	12	10	20	20	20				9	9
p.H.	11.5	11.5	11.5	11.5	10.0	10.0	10.0				10.5	10.5
MUD WEIGHT #/gal.	8.8	8.9	9	9	8.9	8.8	8.8		9.0	9.0	8.9	8.9
MUD VISCOSITY Sec.	38	38	40	38	38	38	40		39	40	47	42
MUD CAKE 32nds c.c.	9.6	10.5	10.5	10.5	7.9	7.4	7.9		2/100	4/99	2/100	10.0
WATER LOSS												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION
7	8 3/4	910154	SEC M4LGT 1-14		1751	1905	54		3-3-1
8	8 3/4	6364	DDV-3 HW 3-14		1805				

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.
5	1120J							

SIGNATURES	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR			DEVIATION RECORD		
	DRILLER	DECKMAN	TOOL DRSR.	DRILLER	DECKMAN	TOOL DRSR.	DRILLER	DECKMAN	TOOL DRSR.	Kind	Depth	Reading
DRILLER	SCHRISTENSEN	Bill Abbott								TOTAL	1781	1 1/2
DECKMAN	L ADELMAN	CL F Adams								"	1802	1 3/4
TOOL DRSR.	C KENYON	Paul Canon								"	1820	1 1/2
HELPER	J LANGELOIS	Larry Ward										
HELPER	L ADELMAN	Fred Ghostkeeper										
HELPER												
FIREMAN												
TOOL PUSHER												

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12	14	REAM IN STABILIZER
		1	115	SERV R.O. V 150 P
		115	700	DRILL
		7	715	SURVEY
		715	8	DRILL
TOUR 2		845	945	Dals
		845	900	Ris Service + BOP check
		900	1245	Dals
		1245	100	Survey @ 1802 - 12°
		100	150	Work Plugged SETS
		130	145	Dals
		145	200	Drop Survey (Mis Run)
		200	345	Trip out for B.T. No 8.
TOUR 3		345	400	Work on Air Control.
		400	415	Ris Service + BOP Check
		415	530	Run in W/B.T. and 22 stab 30' up
		530	7	Dals
		7	715	SURVEY
		715	730	WORK PLUGGED SETS
		730	12	DRILL

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Stabilizer Hours:

C.D.P. # 22

17 1/4 HRS.

C.D.P. # 14 (Near bit)

- 11 1/4 hrs

L. E. G. Smith
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN RICH

CHEVRON CS BERRY 62030' E 1" N 122° 59' 27" W

FIELD Wildcat PROPERTY Grown WELL No. F 71
11 P.M. 12 M. Feb 14 1969☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FOR 24 HOURS ENDING

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P.	NO. 12	NO. 12	NO. 12
" D.P.	NO. 1		
DOUBLE " D.P.			
SINGLE " O.D.			
DC " 6 1/2 O.D.	3	2	2
DRILL COLLAR " 6 1/2 O.D.	NO. 15		
REAMER " O.D.	KIND	KIND	KIND
STABILIZER " 6 1/2 O.D.	KIND	KIND	KIND
JARS	KIND	KIND	KIND
BOMMER SUB. 2			
BIT OR CORE BARREL			
TOTAL D.P. & TOOLS	169765	172910	173329
KELLY DOWN (BELOW R.B.)	2235	1190	1121
DEPTH OF TOOLS	1720	1741	1751
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	1720	1741	1751
DEPTH START OF TOUR	1709	1720	1741
FOOTAGE DRILLED	11	21	10

DAY WORK	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE p.s.i.	25	75	75	75	100	100	100	100	100	100	100	100
ROTARY SPEED r.p.m.		55	55	55	55	62	62	60	48	48	48	48
WEIGHT ON BIT Tons		10	10	10	20	25	25	25	25	25	25	25
p.H.					8.0	9.0	9.0					
MUD WEIGHT #/gal.		87	87	87	89	89	89	88	88	88	88	88
MUD VISCOSITY Sec.		42	43	43	38	41	44	44	43	41	42	42
MUD CAKE 32nds					2/8.6	2/8.2	2/9.0	2/8.6	2/8.6	2/8.6	2/8.6	2/8.6
WATER LOSS cc.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION
5	8 3/4	84084	HW-WRJ OPEN	3	1703	1709	6		3-2-I
6	8 3/4	82662	HW-WRJ OPEN	15	1709	1751	42		2-2-I

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	B. H. CHRISTENSEN	B. H. ABBOTT		10100	1728	10
DERRICKMAN	L. A. DELMAN	G. F. ADELMAN		" "	1751	114
TOOL DRSR.						
HELPER	C. KENYON	PAUL CARON				
HELPER	J. L. ANGLAIS	LARRY WARD				
HELPER	A. ADELMAN	FRED GHOST KEEPER				
FIREMAN						
TOOL PUSHER	J. J. Manno					

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount		
TOUR 1			
SANDUST	15 SAK		GIRL
GEL	600 #	320	HOIST
FIBERSEAL	5 SAK	8	Pickup STABILIZER LAY DOWN BITSUP
CYCLOPHAN	3 SAK		RUN IN W/ BIT
			DRILL LOST 15 BBL MUD IN HOLE
TOUR 2			
MICA	50 #	800	Dals 8 3/4 hole
SANDUST	15 SAK	1015	Sunbury
Cyclophane	75 #	1030	R. Service BOP Check
Redwood	250 #	1045	Dals 8 3/4 hole
CAUSTIC	100 #	400	LOST HOBBLES
BENEX	20 #		While Dals
Soda Ash	200 #		
GEL	4000		
TOUR 3			
	400	530	Dals
	530	545	R. Service BOP
	545	715	Dals
	715	730	Drop Sucker @ 1751
	730		HOIST Tally out
		1020	Pickup STABILIZER RUN IN BIT 7
	1020	12	REIN IN STABILIZER

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

S L M 1729.92
Board 1729.10
82 - DIFF - no correction madeSignature
SIGNATURE COMPANY ENGINEER

CS 8000 F-71 60° 30' 21" N 122° 59' 27" N

From	To	OT
PAID and CHEMICALS ADDED		

FOR 24 HOURS ENDING 12 M. Feb 13 1969

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	2 ⁰⁰	W.C. Rigged plug #1
		2 ⁰⁰	2 ³⁰	Check plug 18 bbls @ 12 ⁰⁰ 10 bbls @ 2 ³⁰ lossing
		2 ³⁰	3 ⁰⁰	Full open end pipe
		3 ⁰⁰	4 ³⁰	Run in w/bit + D.C. 20 rods cement bags 20 bbls
		4 ³⁰	5 ⁰⁰	Pump 15 bbls mud no returns
		5 ⁰⁰	7 ⁰⁰	Stop bit Run in w/open end
		7 ⁰⁰	8 ⁰⁰	Rig to run cement plug #2
TOUR 2		8 ⁰⁰	8 ³⁰	Rig to run CEMENT Plug
		8 ³⁰	9 ⁰⁰	Mix CEMENT + Displace.
		9 ⁰⁰	4 ⁰⁰	W.O.C.
TOUR 3		4 ⁰⁰	4 ¹⁵	Pumped down Annulus 10/5 BL Filled Hole
		4 ¹⁵	4 ³⁰	Rig Service + BOP Check
GEL	3800 #	4 ³⁰	5 ⁰⁰	Pullout W/O.P.
Sawdust	6/SAx	5 ⁰⁰	6 ⁰⁰	Run in w/B.T Top of Cement @ 1700
Reduced	16 SAx	6 ⁰⁰	7 ¹⁵	Drill out CEMENT.
Cellophane	25 #	7 ¹⁵	8 ³⁰	Mix Lost Circ. Material
DEITY.	200 #	8 ³⁰	11 ³⁰	Drill 8 3/4 hole (Controlled)
Bi-CARB.	200 #	11 ³⁰	12 ⁰⁰	Mix Lost Circ. Material (Lost 30 BLS mud)

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

12⁰⁵ AM - Pumped 20 bbls mud in annulus - hole full - level dropped slowly - let set for 2 hours.

2⁰⁰ AM - Pumped 10 bbls mud - filled hole - level dropped slowly

Cement Plug #4 - End of drill pipe at 1640

Mixed 50 sac cement 2% CaCl₂ with Howes skid cement unit in 4 min from 8³⁰ AM - 8³⁴ AM. Displaced plug with 22 bbls drilling mud. Pulled 3 stands drill pipe. Pumped 5 bbl mud down annulus and 5 bbl down drill pipe. Plug in place 8⁵⁰ AM.

4⁰⁰ PM - Pumped down annulus - hole full with 50 bbl fluid level slowly dropping

[illegible]

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[Signature]
SIGNATURE COMPANY ENGINEER

[Handwritten Signature]
SIGNATURE CONSULTING ENGINEER

TOUR REPORT

CONTRACTOR

Peter Bowden Inc

62° 30' 21" N 122° 59' 27" W. CS BARR

FIELD

Wildcat

PROPERTY

Crown

WELL No. F-71

11 P.M.

12 M.

Feb 12

1969

FOR 24 HOURS ENDING

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

DRILLING ASSEMBLY

STANDS 12 " D.P.

1 " D.P.

DOUBLE " D.P.

SINGLE " O.D.

DRILL COLLAR " 6" O.D.

REAMER " O.D.

STABILIZER " O.D.

JARS

BUMPER SUB.

BIT OR CORE BARREL

TOTAL D.P. & TOOLS

KELLY DOWN (BELOW R.B.)

DEPTH OF TOOLS

TOUR

DEPTH END OF TOUR

DEPTH START OF TOUR

FOOTAGE DRILLED

DAY WORK

PUMP PRESSURE p.s.i.

ROTARY SPEED r.p.m.

WEIGHT ON BIT Tons

MUD WEIGHT #/gal.

MUD VISCOSITY Sec.

MUD CAKE 32nds

WATER LOSS c.c.

PIT VOLUME Ft.-ins.

NO. SIZE SERIAL BIT OR CORE BARREL KIND AND TYPE TOTAL HOURS FROM TO Total Bit Footage Core Recov'y BIT CONDITION

6584 4 1/2 484048 HW. WRT cleaning 3:00 1703 1703 - - 3-1-1

CUTTER NO. TYPE IN AT - FT. OUT AT - FT. CENTRE BIT No. CATCHER No. TYPE IN AT - FT. OUT AT - FT.

SIGNATURES

DRILLER

DERRICKMAN

HELPER

HELPER

HELPER

FIREMAN

TOOL PUSHER

MORNING TOUR

DAYLIGHT TOUR

AFTERNOON TOUR

DEVIATION RECORD

Kind Depth Reading

SIGNATURE

DRILLER

DERRICKMAN

HELPER

HELPER

HELPER

FIREMAN

TOOL PUSHER

MUD and CHEMICALS ADDED

Kind Amount

TOUR 1

Gel 2000#

Lignosol 650#

D-Foam 300#

TOUR 2

Lignosol 1165K2

D-Foam 19T

Sodium

Bichromate 15 SK2

Gel 1550

Laudust 20 sks

TOUR 3

Lignosol phosphate plug #1

Lignosol phosphate plug #1

Lignosol phosphate plug #1

Lignosol phosphate plug #1

Lignosol phosphate plug #1

Lignosol phosphate plug #1

Lignosol phosphate plug #1

Lignosol phosphate plug #1

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Lignosol phosphate plug #1

Lignosol phosphate plug #1

11
CHEVRON CS BEARV F71 62° 30' 21" N / 122° 59' 27" W

FIELD Wildcat PROPERTY _____ WELL No. F43
11 P.M.
FOR 24 HOURS ENDING 12 M. FEB 11 1969

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12	230	MIX LOST CIRC MAT. Rig up to pump DOWN LOST CIRC PLUG PUMP DOWN PLUG PUMP DOWN ANULUS 5" BBL MUD AT 3 AM 5 BBL AT 330 6 BBL AT 4 AM 6 BBL AT 430 6 BBL AT 5 6 BBL AT 530 6 BBL AT 6 AM 6 BBL AT 630 6 BBL AT 7 AM 6 BBL AT 730 6 BBL AT 8 AM NO RETURN
TOUR 2		8 ⁰⁰ 8 ⁴⁵ 9 ⁴⁵	8 ⁴⁵ 9 ⁴⁵ 10 ⁰⁰ 4 ⁰⁰	Mix Mud Rig up to run cement plug # 3 Mile kevent plug # 3 750 sack cement 2" CaCl ₂ slurry down @ 10 ⁰⁰ AM Pull out of hole WOC
TOUR 3		4 ⁰⁰ 6 ⁰⁰ 6 ³⁰ 7 ⁰⁰ 7 ³⁰ 7 ⁵⁰ 9 ⁰⁰	6 ⁰⁰ 8 ⁰⁰ 7 ⁰⁰ 7 ³⁰ 9 ⁰⁰ 12 ⁰⁰	W.O.C. Run in W/O.P. Touch cement Plug @ 474 Put on KELLY CIRC. Pull out to Run in W/B.T. Run in W/B.T. DRILL OUT CEMENT Plug From 1474-1554
B. carb	200			
PELTEX	150			

-10°F
CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Mixed last circulation plug at 50 bbls consisting of 30 sacks salt gel, 30 sacks wet material, 13 sacks Redwood Fiber and shredded gunny sacks. Plug in place 3⁰⁰ AM. Pumped down with rig pump. Drill pipe at 1100 feet.
Checked for plug at 8⁰⁰ AM - No plug.
Ran in to 200 feet at bottom. Ran cement plug.
Cement plug #3 - 75 sacks cement 2 1/2 Cals. Mixed plug with Howco cement skid unit in 5 minutes from 7³⁰ AM - 9⁰⁰ AM.
Displaced with drilling mud (20 bbl) using Howco in 5 minutes.
Plug in place 10⁰⁰ AM. Drill pipe at 1480.
6⁰⁰ AM Felt plug at 1475 - hole circulated - Drilled plug to 1554 - broke through - lost circulation.

19

L. L. Gumbly
SIGNATURE COMPANY ENGINEER

L. F. Grumbly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN, RIG

CHEVRON CS BERRY 62° 30' 21" N 122° 59' 27" W

☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARYFIELD NO. 1 & 2 PROPERTYWELL No. F71N.W.T. 11 P.M.
FOR 24 HOURS ENDING 12 M. FEB 10 19 69

DRILLING ASSEMBLY	END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
	NO.			FT.	NO.			FT.	NO.			FT.
STANDS " D.P.												
" " D.P.												
DOUBLE " D.P.												
SINGLE " O.D.												
" " O.D.												
DRILL COLLAR " O.D.	NO.			FT.	NO.			FT.	NO.			FT.
REAMER " O.D.	KIND			FT.	KIND			FT.	KIND			FT.
STABILIZER " O.D.	KIND			FT.	KIND			FT.	KIND			FT.
JARS	KIND			FT.	KIND			FT.	KIND			FT.
BUMPER SUB.				FT.				FT.				FT.
BIT OR CORE BARREL				FT.				FT.				FT.
TOTAL D.P. & TOOLS				FT.				FT.				FT.
KELLY DOWN (BELOW R.B.)				FT.				FT.				FT.
DEPTH OF TOOLS				FT.				FT.				FT.
TOUR	MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR				FEET				FEET				FEET
DEPTH START OF TOUR				FEET				FEET				FEET
FOOTAGE DRILLED				FEET				FEET				FEET

DAY WORK	HOURS				HOURS				HOURS			
	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.							33	35				
ROTARY SPEED r.p.m.												
WEIGHT ON BIT Tons												
D.H.												
MUD WEIGHT #/gal.							8.6	8.6				
MUD VISCOSITY Sec							33	35				
MUD CAKE 32nds												
WATER LOSS c.c.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	CUT AT - FT.

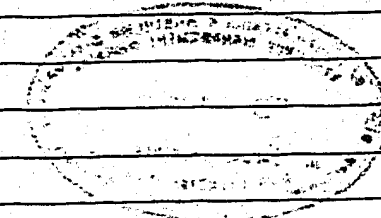
SIGNATURES	TOUR			DEVIATION RECORD		
	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	SCHRISTENSEN	J.T. MODAR	B. H. ABBOTT			
DERRICKMAN TOOL DRSR.	C. A. DELMAN	L. ADERMAN	Adelmanns			
HELPER	A. DOUCET	C. KENYON	Paul CARON			
HELPER	D. BELLCOURT	J. LAWRENDS	Lacy Ward			
HELPER	W. GULBIS	A. ADERMAN	Fred Ghost Keeper			
FIREMAN						
TOOL PUSHER						

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1				
	12	1		W.O. CEMENT
	1	130		PUMP DOWN 50 BBL MUD NO RETURN
	130	215		RUN IN OPEN END NO CEMENT ON BIT
	215	4		RIG UP TO RUN CEMENT PLUG
	4	415		RUN PLUG #2
	415	445		HOIST
	445	8		W.O. CEMENT
TOUR 2				
Gel	3700	800	1200	W.O. plug #2 Haul water mix Gel
Redwood Fiber	1700	1200	330	Mix Gel Redwood Fiber & sandust
Sandust	500	330	400	Run in w/ open end
TOUR 3				
SALT Gel	3700	400	430	Rig To Run Diesel Gel Plug
Redwood Fiber	3000	430	500	Run Diesel Gel Plug
Spartan	3000	500	930	What on Plug
		930	945	Check Plug: No Returns w/ 30 BBLs
		945	1200	Mix Mud

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Cement plug #2 - 75 sacs - 2% to 4% - mixed in 4 min from 4:00 to 4:15 - with Howco skid unit. Displaced with 30 bbl drilling mud in 5 min from 4:15 to 4:30. Plug in place 4:30. Tried to fill hole at 11:00 - wouldn't fill - fluid level at approximately 150 feet.

Gel Plug #3 - mixed 25 bbl batch at 3200 # gel, 20 sacs redwood fiber and 50 sac sandust - Pumped into hole with rig pump followed by diesel gel plug of 8 bbls diesel 25 sac at gel pumped by Howco skid unit. Diesel gel plug displaced with 23 bbl drilling mud. Drill pipe at 1200 during plugging operations. Plug in place 5:00. Checked for plug at 9:30. Could not get circulation.



[Signature]
SIGNATURE COMPANY ENGINEERS

CONTRACTOR PETER BAWDEN RIG
F71 CHEVRON CSBERRY 62° 30' 21" N 122° 59' 27" W
 WELL NO. _____ OTHER _____

FIELD PROPERTY WELL No. 11
11 P.M.
FOR 24 HOURS ENDING 12 M. FEB 9 1969

DRILLING ASSEMBLY		END OF MORNING TOUR						END OF DAYLIGHT TOUR						END OF AFTERNOON TOUR						
STANDS	" D.P.	NO.					FT.	NO.					FT.	NO.					FT.	
	" D.P.	NO.					FT.	NO.					FT.	NO.					FT.	
DOUBLE	" D.P.						FT.						FT.						FT.	
SINGLE	" O.D.						FT.						FT.						FT.	
	" O.D.						FT.						FT.						FT.	
DRILL COLLAR	" O.D.	NO.					FT.	NO.					FT.	NO.					FT.	
REAMER	" O.D.	KIND					FT.	KIND					FT.	KIND					FT.	
STABILIZER	" O.D.	KIND					FT.	KIND					FT.	KIND					FT.	
JARS		KIND					FT.	KIND					FT.	KIND					FT.	
BUMPER SUB.		KIND					FT.	KIND					FT.	KIND					FT.	
BIT OR CORE BARREL							FT.						FT.						FT.	
TOTAL D.P. & TOOLS							FT.						FT.						FT.	
KELLY DOWN (BELOW R.B.)							FT.						FT.						FT.	
DEPTH OF TOOLS							FT.						FT.						FT.	
TOUR		MORNING TOUR						DAYLIGHT TOUR						AFTERNOON TOUR						
DEPTH END OF TOUR							FEET						1703	FEET					1703	FEET
DEPTH START OF TOUR							FEET						FEET						FEET	
FOOTAGE DRILLED							FEET						FEET						FEET	

DAY WORK		HOURS				HOURS				HOURS			
		2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE	p.s.i.												
ROTARY SPEED	r.p.m.												
WEIGHT ON BIT	Tons												
p.H.													
MUD WEIGHT	#/gal.												8.7 36
MUD VISCOSITY	Sec.												
MUD CAKE	32nds												
WATER LOSS	c.c.												
PIT VOLUME	Ft.-Ins.												
		Total											

[illegible][illegible]

				DEVIATION RECORD		
		MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR		
SIGNATURES				Kind	Depth	Reading
DRILLER		SCHRISTENSEN	J.T. MOORE			
DERRICKMAN TOOL DRSR	☒	CADELMAN	L. ADELMAN			
HELPER		A. DOUCET	C. KENYON			
HELPER		D. BELL COURT	J. LANGBOIS			
HELPER		W. GULBIS	A. FOSHMAN			
FIREMAN						
TOOL PUSHER						

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1				Rig up To RUN DIESEL GEL PLUG RUN DIESEL GEL PLUG
4800 #	gel			
100 #	CaCl ₂			
Sawdust	25 SKS			
TOUR 2				
Gel	1700 #	800	900	Pump down 100 bbl mud no returns
Sawdust	20 SKS	000	400	120 Water Mix Gel. Roads back drilling same
TOUR 3				
Gel	2000	4 ¹⁵	4 ¹⁵	Rig Service + BOP check
Caustic	50 #	5 ⁰⁰	5 ⁰⁰	Bar in W/O P. Open end
Sawdust	20 SK	5 ¹⁵	5 ⁴⁵	Rig To Run Cement Plug
		6 ¹⁵	6 ¹⁵	Run Cement Plug Plug Down @ 6 ¹⁵
		6 ¹⁵	2 ⁰⁰	Pull Out. + W/O

-40° - 45 mph wind

CEMENTING TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Ran diesel gel plug #2 - 25 sac gel 7 bbls diesel
12⁰⁵ am - 12¹⁵ am - pumped 3 bbl diesel ahead in drill
pipe, mixed and displaced pump plug
to drill pipe with Howco cement.
Followed plug with 3 bbl diesel. Jet
mixer kept freezing off.

12¹⁵ am - 12³⁰ am - Rigged up to run 50 sac cement plug
Cement mixer froze up with temperature
of mixing water at 80°

12³⁰ am - 1³⁰ am - Rigged up and displaced diesel
gel plug to bottom using #2 rig
pump on drill pipe and Jetting pump
on annulus. Displaced drill pipe with
24 bbls of drilling mud. No pressure
build up on either pump. No bleed back
Plug in place at 1³⁰ am

Remarks: Did not run cement plug.
Bottom of drill pipe at 1660 during plug
operations.

Cement Plug #1 - 75 sac - Mixed 75 sac cement 2 1/2 cals 17.5 min from 6⁰⁰ am to
6⁰⁵ am using Howco skid unit Displaced to bottom in 7 min from 6⁰⁷ am to 6¹⁴ am.
Displacement 21 bbl drilling mud Plug in place 6¹⁵ am.

L. F. Stumpe
SIGNATURE COMPANY ENGINEER

CONTRACTOR PATER BOWDEN RIG 62° 31' 21" N 122° 59' 27" W CHEVRON C.S. 13-RRY F71
WELL No. F71 OTHER HOUSING

FIELD PROPERTY WELL No. F 11
 11 P.M.
 FOR 24 HOURS ENDING 12 M. FEB 8 1967

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount	12	8	W.O. MUD

REDRILLING		ABANDONING		ROTARY		FOR 2 1/2" HOLES		END OF MORNING TOUR		END OF DAYLIGHT TOUR		END OF AFTERNOON TOUR	
DRILLING ASSEMBLY				NO. 12		112456		FT.		NO.		FT.	
STANDS " 4 1/2" D.P.				NO.				FT.		NO.		FT.	
" D.P.				NO.				FT.		NO.		FT.	
DOUBLE " D.P.								FT.				FT.	
SINGLE " O.D.								FT.				FT.	
D.C. " 6 1/2" O.D.				3		8650		FT.				FT.	
DRILL COLLAR " 6 1/4" O.D.				NO. 15		44559		FT.		NO.		FT.	
REAMER " O.D.				KIND				FT.		KIND		FT.	
STABILIZER " O.D.				KIND				FT.		KIND		FT.	
JARS				KIND				FT.		KIND		FT.	
BUMPER SUB.				KIND		470		FT.		KIND		FT.	
BIT OR CORE BARREL 300						259		FT.				FT.	
TOTAL D.P. & TOOLS						166424		FT.				FT.	
KELLY DOWN (BELOW R.B.)						3567		FT.				FT.	
DEPTH OF TOOLS						1700		FT.				FT.	
TOUR				MORNING TOUR						DAYLIGHT TOUR		AFTERNOON TOUR	
DEPTH END OF TOUR				1500		FEET				1700		FEET	
DEPTH START OF TOUR						FEET						FEET	
FOOTAGE DRILLED						FEET						FEET	

[illegible]

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Total mud to formation 720 bbls to date

[illegible][illegible]

				DEVIATION RECORD		
SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Read
DRILLER	S. CHRISTENSEN	J. T. MARE	Bill Abbott	1520	1697	17
DERRICKMAN TOOL DRSR.	C. ADELMAN	L. ADELMAN	Adelmanns			
HELPER	A. DOUGL	C. KENYON	Paul Curran			
HELPER	D. BELLCOURT	B. LANGLOIS	Lacy Ward			
HELPER	W. GULBIS	A. ADELMAN	Fred Ghostkeiser			
FIREMAN						
TOOL PUSHER						

L. L. Smith
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *PETER BAYDEN RIG**Chevron C.S. Berry F-71*☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARYFIELD _____ PROPERTY _____ WELL No. *F71*
11 P.M. *FEB 7* 1969
FOR 24 HOURS ENDING 12 M.

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " 4 1/2 D.P.	NO. 12 11 24 56 FT.	NO. FT.	NO. FT.
" D.P.	NO. FT.	NO. FT.	NO. FT.
DOUBLE " D.P.	NO. FT.	NO. FT.	NO. FT.
SINGLE " O.D.	NO. FT.	NO. FT.	NO. FT.
<i>DC</i> " <i>6 1/2</i> D.	86 50 FT.	NO. FT.	NO. FT.
DRILL COLLAR " <i>6 1/2</i> D.	44 59 FT.	NO. FT.	NO. FT.
REAMER " O.D.	KIND FT.	KIND FT.	KIND FT.
STABILIZER " O.D.	KIND FT.	KIND FT.	KIND FT.
JARS	KIND FT.	KIND FT.	KIND FT.
BUTTER SUB.	470 FT.	NO. FT.	NO. FT.
BIT <i>ON CORE BARREL SUB</i>	298 FT.	NO. FT.	NO. FT.
TOTAL D.P. & TOOLS	166433 FT.	NO. FT.	NO. FT.
KELLY DOWN (BELOW R.B.)	3467 FT.	NO. FT.	NO. FT.
DEPTH OF TOOLS	170000 FT.	NO. FT.	NO. FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	1700 FEET	1700 FEET	FEET
DEPTH START OF TOUR	FEET	FEET	FEET
FOOTAGE DRILLED	FEET	FEET	FEET

DAY WORK	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.												
ROTARY SPEED r.p.m.												
WEIGHT ON BIT Tons												
p.H.												
MUD WEIGHT #/gal.												
MUD VISCOSITY Sec.												
MUD CAKE 32nds												
WATER LOSS cc.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

				DEVIATION RECORD		
SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	S. CHRISTENSEN	J. T. MOORE	Bill Abbott			
DERRICKMAN TOOL DRSR. ☐	C. ADelman	L. ADelman	Adelman			
HELPER	A. DOUGET	C. KEYON	Paul CARON			
HELPER	D. BRILLOUET	J. LANGLOIS	Lacy Ward			
HELPER	W. GULBIS	A. ADelman	Fred Ghostkeeper			
FIREMAN						
TOOL PUSHER						

MUD and CHEMICALS ADDED	Kind	Amount	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR 1	GEL	2500	12	12.5	<i>Run up HALLS</i>
			12.5	130	<i>SEAL RIG + B.O.P</i>
			130	145	<i>RIG UP HALLBUATHEN</i>
			145	3	<i>MIX DIESEL GEL PLUG + PUMP DOWN</i>
			3	8	<i>HOIST</i>
					<i>W.O. MUD PLUG</i>
TOUR 2			9.00	4.00	<i>W.O. mud</i>
					<i>check motor shutoffs (working good)</i>
TOUR 3			4.00	12.00	<i>W.O. mud</i>

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Mixed 2.5 sec diesel plug (8 bbls). Proceeded plug with 5 bbl diesel, chased plug with 5 bbl diesel, 15 bbl water and 5 bbl diesel. Pumped down annulus with rig pump while displacing gel plug with Howco. Started mixing plug at 1:30. Finished " " " 1:45. Plug displaced to formation 1:45. Max pressure 200 psi.

[Signature]
SIGNATURE COMPANY ENGINEER

CONTRACTOR PETER BAWDEN Right
F71 62° 31' 21" N 122° 59' 27" W CHEVRON CS BERRY F71
 OTHER HOURLY OPERA

FIELD PROPERTY WELL No. F 71
 11 P.M.
 FOR 24 HOURS ENDING 12 M. FEB 6 1969

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12	12 ¹⁵	CLEAN OUT Pump #1
Gell	4300	12 ¹⁵	12 ³⁰	PUMP DOWN 50 BBL LOST CIRC MAT
Sawdust	60 SKS			STAGE PLUG 6 BBL AT 1AM 6 BBL AT 1:30AM
Fibre Seal	3 SKS			6 BBL 2AM CA 1/2 BBL RETURN ON LAST STAGE
			345	PRESSURE AGAINST LOST CIRC MAT IN HOLE
		345	6 ¹⁵	LOST CIRC
		6 ¹⁵	8	MIX PLUG #2 LOST 15 BBL
				CIRC + COND MUD
TOUR 2		8 ⁰⁰	12 ⁰⁰	Circ. Cond. mud. R/L 14 Bopv
GELL	2500	12 ⁰⁰	2 ³⁰	Trip to put on bit
SAWDUST	20 SKS	2 ³⁰	3 ⁰⁰	Break circ. 2' L.C.M. on bottom Lost circ. on bottom
FIBRE SEAL	10 SKS	3 ⁰⁰	3 ³⁰	Condition mud
CAUSTIC	150	3 ³⁰	4 ⁰⁰	Hoist fl/ open end.
TOUR 3	4	4 ⁰⁰	5 ⁰⁰	Finish out for Open End
		5 ⁰⁰	5 ¹⁵	Reg. Service + BOP Check
		5 ¹⁵	7 ⁰⁰	Run in Open End + Pick up 18 singles
		7 ⁰⁰	10 ⁰⁰	W.A.T on Halifax Ton
		10 ⁰⁰	12 ⁰⁰	Rigging up Halifax Ton

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Total mud lost to formation to date 550 bbls

[illegible]

				DEVIATION RECORD			
		MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
SIGNATURES							
DRILLER		S. CHRISTENSEN	J. T. MOORE	B. H. ABBOTT			
DERRICKMAN TOOL DRSR.	☒	C. ADELMAN	L. ADELMAN	Adelmanns			
HELPER		A. DUCET	C. KENYON	Paul C. Ken			
HELPER		D. BELL COVAT	J. LANGHORS	Lucy W. Hall			
HELPER		W. GULDIS	A. ADELMAN	Fred G. Thompson			
FIREMAN							
TOOL PUSHER							


SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *Patricia Bawden* *771* *CHENON (S. BERRY)* *F 71 62° 31' 21" N 122° 59' 27" W*☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARYFIELD PROPERTY WELL No. *771*
11 P.M. *FEB 5* 19*69*
FOR 24 HOURS ENDING 12 M.

DRILLING ASSEMBLY			END OF MORNING TOUR							END OF DAYLIGHT TOUR							END OF AFTERNOON TOUR															
STANDS	"	D.P.	NO. 12	1	1	2	4	5	6	FT.	NO. 12	1	1	2	4	5	6	FT.	NO. 12	1	1	2	4	5	6	FT.						
"	"	D.P.	NO.							FT.	NO.							FT.	NO.							FT.						
DOUBLE	"	D.P.								FT.								FT.								FT.						
SINGLE	"	O.D.								FT.								FT.								FT.						
D.C.	"	O.D.	3				8	6	5	0	FT.					8	6	5	0	FT.					8	6	5	0	FT.			
DRILL COLLAR	"	O.D.	NO. 15				4	4	5	5	9	FT.	NO.				4	4	5	5	9	FT.	NO.				4	4	5	5	9	FT.
REAMER	"	O.D.	KIND							FT.	KIND							FT.	KIND												FT.	
STABILIZER	"	O.D.	KIND							FT.	KIND							FT.	KIND												FT.	
JARS			KIND							FT.	KIND							FT.	KIND												FT.	
BUMPER SUB.	2						4	7	0	FT.						4	7	0	FT.							4	7	0	FT.			FT.
BIT OR CORE BARREL SUB							2	9	8	FT.						2	9	8	FT.							2	9	8	FT.			FT.
TOTAL D.P. & TOOLS							1	6	4	3	3	FT.					1	6	4	3	3	FT.					1	6	4	3	3	FT.
KELLY DOWN (BELOW R.B.)							3	5	6	9	FT.						3	5	6	7	FT.						3	5	6	7	FT.	
DEPTH OF TOOLS							1	7	0	0	FT.						1	7	0	0	FT.						1	7	0	0	FT.	
TOUR			MORNING TOUR							DAYLIGHT TOUR							AFTERNOON TOUR															
DEPTH END OF TOUR				1	7	0	0		FEET			1	7	0	0		FEET			1	7	0	0		FEET			1	7	0	0	FEET
DEPTH START OF TOUR				1	6	9	2		FEET			1	7	0	0		FEET			1	7	0	0		FEET			1	7	0	0	FEET
FOOTAGE DRILLED							8		FEET								FEET															FEET

DAY WORK	HOURS				HOURS				HOURS			
	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.	850											
ROTARY SPEED r.p.m.	80											
WEIGHT ON BIT Tons	5											
p.H.												
MUD WEIGHT #/gal.	8.6						8.6	8.7				
MUD VISCOSITY Sec.							31	33				
MUD CAKE 32nds												
WATER LOSS c.c.												
PIT VOLUME Ft.-ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION
4	8 3/4	7915	WDJ - 2-12-1-11	374	1692	1700	8		5-3-1

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR			DAYLIGHT TOUR			AFTERNOON TOUR			DEVIATION RECORD		
	Kind	Depth	Reading	Kind	Depth	Reading	Kind	Depth	Reading	Kind	Depth	Reading
DRILLER												
DERRICKMAN TOOL DRSR.												
HELPER												
HELPER												
HELPER												
FIREMAN												
TOOL PUSHER												

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL	
Kind	Amount			WORK DONE	
TOUR 1		12	12:15	SERV RIG + B.O.P	
		12:15	330	Drill	
		330	8	Lost Circ W.O. WATER	
TOUR 2		8:00	8:15	Big Services Bop	
Gel 2000	3500	8:15	1:30	W.B. water mix Gel & sandust	
Sandust	6000	1:30	2:15	Try to circ failed to get returns 45 bbls	
		2:15	3:00	Mix Sandust	
		3:00	4:00	Pump 60 bbls Gel & sandust mixture no returns	
TOUR 3		4:00	7:00	Mix Lost Circ. Material + Cleanout	
Circ	6000			Vol Pump	
Sandust	2000	7:00	8:30	Pull Plugged Bit	
Mica	150	8:30	10:30	Chn plug 90 FT. DC	
Fibre Seal	500	10:30	12:00	Run in open end	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

L. F. Lunn
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETE BAWDIEN AIC 11
WELL NO. F71 CHEVRON E-S BERRY F71 62° 31' 21" N 122° 59' 27" WFIELD _____ PROPERTY _____
11 P.M. 12 M. FEB 4 1969
FOR 24 HOURS ENDING☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARY

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS	NO. 10 30 6 7 FT.	NO. 12 11 24 5 6 FT.	NO. 12 11 24 5 6 FT.
"	NO. 2 62 7 3 FT.	NO. 12 11 24 5 6 FT.	NO. 12 11 24 5 6 FT.
DOUBLE	NO. 2 62 7 3 FT.	NO. 12 11 24 5 6 FT.	NO. 12 11 24 5 6 FT.
SINGLE	NO. 2 62 7 3 FT.	NO. 12 11 24 5 6 FT.	NO. 12 11 24 5 6 FT.
D.C. " 6 1/4 O.D.	3 86 5 0 FT.	8 6 5 0 FT.	8 6 5 0 FT.
DRILL COLLAR " 6 1/4 O.D.	NO. 15 44 5 5 9 FT.	NO. 44 5 5 9 FT.	NO. 44 5 5 9 FT.
REAMER " O.D.	KIND	KIND	KIND
STABILIZER " O.D.	KIND	KIND	KIND
JARS	KIND	KIND	KIND
BOMPER SUB.	KIND 2 47 0 FT.	4 7 0 FT.	4 7 0 FT.
BIT OR CORE BARREL SUB.	29 8 FT.	2 9 8 FT.	2 9 8 FT.
TOTAL D.P. & TOOLS	1 633 0 8 FT.	1 664 3 3 FT.	1 664 3 3 FT.
KELLY DOWN (BELOW R.B.)	32 9 2 FT.	2 2 6 7 FT.	2 2 6 7 FT.
DEPTH OF TOOLS	1 666 0 0 FT.	1 692 0 0 FT.	1 692 0 0 FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	1 666 FEET	1 692 FEET	1 692 FEET
DEPTH START OF TOUR	1 631 FEET	1 666 FEET	1 666 FEET
FOOTAGE DRILLED	35 FEET	26 FEET	26 FEET

DAY WORK	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE p.s.i.			900	900	800							
ROTARY SPEED r.p.m.			100	100	100							
WEIGHT ON BIT Tons			4	4	8 m							
p.H.												
MUD WEIGHT #/gal.			8.9	8.9	8.9							
MUD VISCOSITY Sec					28							
MUD CAKE 32nds												
WATER LOSS c.c.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
2	8 3/4	8028	ODV - 2-12-1-11	1934	1363	1645	282		3-8-1
3	8 3/4	6235	ODV 2-12-1-11	434	1645	1692	47		3-3-1
4	8 3/4	7975	W.D.A.S. 7-12-1-1		1692				

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

				DEVIATION RECORD		
SIGNATURES.	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	Kind	Depth	Reading
DRILLER	S. CHRISTENSEN	J. T. MOORE	Bill Abbott			
DERRICKMAN TOOL DRSR. ☐	C. ADELMAN	L. ADELMAN	Adelman's.			
HELPER	A. DOUCET	C. KENYON	Paul Garon			
HELPER	D. BELLCOURT	J. L. ANGLAIS	Lacy Ward			
HELPER	W. GULBIS	A. ADELMAN	Fred Gikostkeper			
FIREMAN						
TOOL PUSHER	M. King					

MUD and CHEMICALS ADDED	Kind	Amount	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
TOUR 1			12	145	Drill
			145	2	Survey
			2	215	Trip for B.T. #3
			215	530	Drill
TOUR 2	Gel	500#	900	815	R/L + Bop
			815	1030	Drill 8 3/4 hole controlled
			1030	1200	Twist off pipe bottom up max 500# Gel
			1200	1200	Check out overshoot equiv.
TOUR 3			315	400	Twist off 11 stands & 1 single
			400	445	Pick up 3 Dec. make up overshoot
			445	600	Run in to top of fish
			600	645	Line work over top of fish
			645	700	Fishing
			700	905	Pull out w/ fish
			905	1115	Pull O.C.s.
			1115	1145	Ris Service - Bop Check
			1145	1145	Change Valve or Gss Bop & Clean Mud Tanks
			1145	1145	Run in w/ B.T. No. 4.
			1145	1145	Pick up Singles

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

Fish string 10 stds 1 single 967.72
3 - 6 1/4" D.C. 89.88
2 7/8" sub 4.09
overshoot ass. 8.25
Kelly in 19.49
Top of fish 1089.43

L. F. G. Assembly
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDIEN RILLCHEVRON C.S. BERRY F91 62°31'21" N 122°59'23" WFIELD _____ PROPERTY _____ WELL No. _____
11 P.M. 12 M. FEB 3 1969
FOR 24 HOURS ENDING☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARY

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	" D.P.	NO. 9	8	4	2	8	4	2	8	4	2	8	4
"	D.P.	NO. 1	3	1	4	3	1	4	3	1	4	3	1
DOUBLE	" D.P.												
SINGLE	" O.D.	4				1				1			
D.C.	" 6 1/2 O.D.	3	8	6	5	0	8	6	5	0	8	6	5
DRILL COLLAR	" 6 1/2 O.D.	NO. 15	4	4	5	5	4	4	5	5	4	4	5
REAMER	" O.D.	KIND											
STABILIZER	" O.D.	KIND											
JARS		KIND											
BUMPER SUB.	2	KIND	4	7	0	4	7	0	4	7	0	4	7
BIT OR CORE BARREL SUB.			2	9	8	2	9	8	2	9	8	2	9
TOTAL D.P. & TOOLS			1	4	1	4	0	5	1	5	0	8	5
KELLY DOWN (BELOW R.B.)			8	9	5	3	5	4	6	2	9	1	6
DEPTH OF TOOLS			1	4	2	3	1	5	4	1	6	3	1
TOUR													
DEPTH END OF TOUR			1	4	2	3	1	5	4	1	6	3	1
DEPTH START OF TOUR			1	3	6	3	1	4	2	1	5	4	5
FOOTAGE DRILLED			6	0	1	2	2	8	6	1	6	3	1

DAY WORK		HOURS				HOURS				HOURS			
		2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE	p.s.i.	900	900	900	900	900	900	900	900	900	900	900	900
ROTARY SPEED	r.p.m.	110	110	110	110	110	110	110	110	110	110	110	110
WEIGHT ON BIT	Tons	4	4	4	8m	12m	8m	8m	7m	7m	7m	7m	7m
P.H.													
MUD WEIGHT	#/gal.	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
MUD VISCOSITY	Sec.												
MUD CAKE	32nds												
WATER LOSS	c.c.												
PIT VOLUME	Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
2	8 3/4	8028	O.D.V	2-12-1-11	1363				

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	DEVIATION RECORD		
	Kind	Depth	Reading
MORNING TOUR			
DAYLIGHT TOUR			
AFTERNOON TOUR			
DRILLER	CHRISTENSEN	J. T. MOORE	P. H. ABBOTT
DERRICKMAN	C. ADOLMAN	L. ADOLMAN	A. WADSWORTH
TOOL DRSR.	A. DOULAT	C. KENYAN	PAUL CARON
HELPER	D. BELLCOURT	J. LANGLOIS	L. W. WARD
HELPER	V. GULBIS	A. ADOLMAN	FRED GHOSTKEEPER
FIREMAN			
TOOL-PUSHER			

CHEVRON C.S. BERRY T-11 G-2 31 21 N 122 57 E				OTHER HOURLY OPERATING DETAIL
MUD and CHEMICALS ADDED		From	To	WORK DONE
Kind	Amount			
TOUR 1		12	12 ¹⁵	SERV RIG + B.O.P., STRAP PIPE
		12 ¹⁵	3	RUN IN B.T. & 2 PICK UP 3 O.C.S
		3	3 ⁴⁵	DRILL
		3 ⁴⁵	4 ¹⁵	WORK ON KELLY HOSE (TIGHTEN)
		4 ¹⁵	7 ³⁰	DRILL
		7 ³⁰	7 ⁴⁵	SURVEY
		7 ⁴⁵	8	DRILL
TOUR 2		8 ⁰⁰	10 ¹⁵	DRILL 8 ³ / ₄ " hole controlled
		10 ¹⁵	10 ³⁰	RIG + B.O.P.
		10 ³⁰	11 ⁰⁰	2 surveys / mission @ 1445
		11 ⁰⁰	12 ⁰⁰	DRILL 8 ³ / ₄ " hole controlled
		12 ⁰⁰	12 ¹⁵	SURVEY @ 1475
		12 ¹⁵	1 ⁴⁵	DRILL 8 ³ / ₄ " hole controlled
		2 ⁰⁰	2 ⁰⁰	SURVEY @ 1510 mission
		4 ⁰⁰	4 ⁰⁰	DRILL 8 ³ / ₄ " hole controlled
TOUR 3		4 ⁰⁰	4 ¹⁵	RIG SERVICE + B.O.P. check.
		4 ¹⁵	4 ⁴⁵	SURVEY @ 1549 - 1 ¹ / ₂ (ONE mission)
		4 ⁴⁵	7 ⁰⁰	DRILL 8 ³ / ₄ " hole controlled.
		7 ⁰⁰	7 ¹⁵	SURVEY @ 1579 - 1 ¹ / ₂
WATER.		7 ¹⁵	12 ⁰⁰	DRILL 8 ³ / ₄ " hole controlled.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

PIPE TALLY 135576
STRAP 135386
190 - Diff. No Corr. made

Lothman
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN RIG CHEVRON C.S. BERRY F 71 62° 31' 21" N 122° 59' 27" W☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARYFIELD _____ PROPERTY _____ WELL No. _____
11 P.M.
12 M. FEB 2 1969
FOR 24 HOURS ENDING

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P.	NO. 7	NO. 9	NO. 9
" D.P.	NO. 2		
DOUBLE " D.P.			
SINGLE " O.D.			
D.C. " 6 1/4 O.D.	3		2
DRILL COLLAR " 6 1/4 O.D.	NO. 12	NO.	NO.
REAMER " O.D.	KIND	KIND	KIND
STABILIZER " O.D.	KIND	KIND	KIND
JARS	KIND	KIND	KIND
PUMPER SUB. 2			
BIT OR CORE BARREL SUB			
TOTAL D.P. & TOOLS	116934	129279	724
KELLY DOWN (BELOW R.B.)	1366	2221	
DEPTH OF TOOLS	11810	131500	
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	11810	1315	1363
DEPTH START OF TOUR	1057	1180	1315
FOOTAGE DRILLED	1233	135	48

DAY WORK	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.	900	900	900	900	850	850	850	850	850	850	850	850
ROTARY SPEED r.p.m.	190	190	110	110	120	100	125	850	130	135	135	
WEIGHT ON BIT Tons	12M	8M	12M	12M	10M	12M	8M	130M	8M	6M	6M	
B.H.												
MUD WEIGHT #/gal.	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
MUD VISCOSITY Sec.					28	28	28	28	28	28	28	28
MUD CAKE 32nds												
WATER LOSS c.c.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
1	8 3/4	4570	XIG 2-12-1-11	29	540	1363	823		3-3-1
2	8 3/4	8024	DOV HW 2-11		1363				

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	S. CHRISTENSEN			Kind Depth Reading
DERRICKMAN TOOL DRSR.	C. ADELMAN	J.T. MOORE		" 1112 10
HELPER	A. DOUCET	L. ADELMAN		" 1144 1/2
HELPER	D. BELLCOURT	C. KENYON		" 1200 10
HELPER	W. GULBIS	J. H. HIS		" 1260 140
FIREMAN		A.		" 1295 714
TOOL PUSHER				" 1330 10

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind Amount	12	1215	SEAV RIG + B.O.P
TOUR 1	1215	130	Drill
	130	145	Survey
	145	345	Drill
	345	4	Survey
	4	545	Drill
	545	6	Survey
	6	8	Drill
TOUR 2	800	845	Drill 8 3/4" hole controlled
	845	915	Rig + Bop held Bop drill
	915	930	Survey @ 1200
	930	1245	Drill 8 3/4" hole controlled
	1245	1200	Survey @ 1260
	1200	300	Drill 8 3/4" hole controlled
	300	315	Survey @ 1290
	315	400	Drill 8 3/4" hole controlled
TOUR 3	400	545	Drill 8 3/4" hole controlled
	545	600	Rig Service BOP check + blow drill held
	600	630	Survey @ 1330 - 10 DNE M. S. R. H.
	630	1000	Drill 8 3/4" hole controlled
	1000	1015	Survey 1363 - 150
	1015	1200	Drill 8 3/4" hole controlled

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

1363-120

SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *PETER BANDEN R. 311*
CHANDON CS BERRY F71 62° 31' 21" N 122° 59' 27" W.☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARYFIELD PROPERTY WELL No. *F71*
11 P.M. *FEB 1* 196*9*
FOR 24 HOURS ENDING 12 M.

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P. NO. 2	X 85 50 FT.	185 50 FT.	6 56 08 1 FT.
" D.P. NO.			
DOUBLE " D.P.			
SINGLE " O.D. 1	3 39 FT.	1 86 50 FT.	
DC " 6 1/2 O.D. 3	16 50 FT.	3 55 57 FT.	12 35 57 FT.
DRILL COLLAR 12 1/2 " 6 1/2 O.D. NO.	3 55 57 FT.	NO. 12	NO. 12 86 50 FT.
REAMER " O.D. KIND			
STABILIZER " O.D. KIND			
JARS			
REAMER SUB. 2	4 50 FT.	2 47 0 FT.	2 47 0 FT.
BIT OR CORE BARREL SUB. 2	2 58 FT.	1 29 8 FT.	1 29 8 FT.
TOTAL D.P. & TOOLS		6 6 8 84 FT.	10 10 76 FT.
KELLY DOWN (BELOW R.B.)		3 3 16 FT.	3 6 24 FT.
DEPTH OF TOOLS		50 0 FT.	10 47 10 FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR		540 FEET	1047 FEET
DEPTH START OF TOUR	540 FEET	540 FEET	700 FEET
FOOTAGE DRILLED		160 FEET	347 FEET

DAY WORK	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.									850	850	850	850
ROTARY SPEED r.p.m.									100	100	110	110
WEIGHT ON BIT Tons									20	20	12	12
p.h.									8.8	8.8	8.8	8.8
MUD WEIGHT #/gal.									28	28	28	28
MUD VISCOSITY Sec.												
MUD CAKE 32nds												
WATER LOSS c.c.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION
1	8 3/4	11570	XIG HW 2 1/2		540				

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	<i>B. Abbott</i>	<i>S. CHRISTENSEN</i>	<i>T. MOORE</i>	Kind Depth Reading
DERRICKMAN	<i>B. Wadell</i>	<i>C. ADERMAN</i>	<i>L. ADERMAN</i>	" 610 3/4
HELPER	<i>Paul Carson</i>	<i>A. DOUGET</i>	<i>C. KENYON</i>	" 700 1/2
HELPER	<i>Larry Ward</i>	<i>D. BELLCOURT</i>	<i>J. LANGLOIS</i>	" 920 7/8
HELPER	<i>Fred Gheskeper</i>	<i>W. GULBIS</i>	<i>A. ADERMAN</i>	" 980 3/4
FIREMAN				
TOOL PUSHER				

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind Amount	12 00	12 15	Rig Service
TOUR 1	12 15	2 30	Finish Rigging up To Run in W/B.T.
	2 30	3 30	Run in W/B.T. No. 1
	3 30	6 30	Drill out Cement Plug + Float Top of Cement @ 430
	6 30	7 30	PRESSURE TEST W/2 Pipe Rams + Hyd rail To 1000 psi. For 30 mins each OK.
	7 30	8 00	Lay Down Singles + Pickup DCS.
TOUR 2	8 00	8 15	SEAR Rig
BICARB 2007	8 15	10 45	Pick up 6 D.C.S + CLEAN OUT MOUTHOLE
	10 45	12 30	DRILL OUT SHOES + CLEAN MUDTANK
	12 30	2	DRILL 8 3/4 HOLES
	2	2 15	SURVEY
	2 15	4	DRILL
TOUR 3	4 00	4 15	Survey @ 700'
	4 15	4 30	RH + Bop
	4 30	8 15	Drill 8 3/4 hole
	8 15	8 30	Circ prior to survey
	8 30	8 45	Survey @ 720
	8 45	10 15	Drill 8 3/4 hole controlled
	10 15	10 30	Survey @ 980
	10 30		Drill 8 3/4 hole controlled

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

TAGGED CEMENT IN CG. AT 430' CLEANED OUT TO BOTTOM. PRESSURE TESTED LOSING AND CONTROLS WITH WATER AT 1000 PSIG FOR 30 MINS. NEGLIGIBLE PRESSURE DROP.

PRESSURE TESTED 4 1/2" PIPE RAMS + HYDRIL TO 1000 PSI. FOR 30 MINS. EACH. NEGLIGIBLE PRESSURE DROP.

Wade R. Hinds
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BOWDEN IIFIELD PROPERTY CHEVRON CO. BERRY No. F-71
11 P.M. JAN 30 1969
12 M. JAN 30 1969

62° 31' 21" N 122° 59' 27" W

☐ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARY

FOR 24 HOURS ENDING

OTHER HOURLY OPERATING DETAIL
WORK DONE

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P.	NO. FT.	NO. FT.	NO. FT.
" D.P.	NO. FT.	NO. FT.	NO. FT.
DOUBLE " D.P.	NO. FT.	NO. FT.	NO. FT.
SINGLE " O.D.	NO. FT.	NO. FT.	NO. FT.
" O.D.	NO. FT.	NO. FT.	NO. FT.
DRILL COLLAR " O.D.	NO. FT.	NO. FT.	NO. FT.
REAMER " O.D.	KIND FT.	KIND FT.	KIND FT.
STABILIZER " O.D.	KIND FT.	KIND FT.	KIND FT.
JARS	KIND FT.	KIND FT.	KIND FT.
BUMPER SUB.	KIND FT.	KIND FT.	KIND FT.
BIT OR CORE BARREL	FT.	FT.	FT.
TOTAL D.P. & TOOLS	FT.	FT.	FT.
KELLY DOWN (BELOW R.B.)	FT.	FT.	FT.
DEPTH OF TOOLS	FT.	FT.	FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	640 FEET	FEET	540 FEET
DEPTH START OF TOUR	FEET	FEET	FEET
FOOTAGE DRILLED	FEET	FEET	FEET

DAY WORK	HOURS	HOURS	HOURS
	2.00 A.M. 4.00 A.M. 6.00 A.M. 8.00 A.M.	10.00 A.M. 12.00 A.M. 2.00 P.M. 4.00 P.M.	6.00 P.M. 8.00 P.M. 10.00 P.M. 12.00 P.M.
PUMP PRESSURE p.s.i.			
ROTARY SPEED r.p.m.			
WEIGHT ON BIT Tons			
p.h.			
MUD WEIGHT #/gal.			
MUD VISCOSITY Sec.			
MUD CAKE 32nds			
WATER LOSS c.c.			
PIT VOLUME Ft.-Ins.			

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DRILLER	B. HALLSTADT	S. CHRISTENSEN	J. T. MOORE
DERRICKMAN	A. WADSWORTH	C. ADELMAN	L. ADELMAN
TOOL DRSR.	Paul Carson	A. DOUCET	C. KENYON
HELPER	L. WARD	D. BELLCOURT	J. LANGLOIS
HELPER	F. GHOSTKEEPER	W. GULBIS	A. ADELMAN
FIREMAN			
TOOL PUSHER			

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount		
TOUR 1	12 ⁰⁰ 12 ¹⁵ 5 ¹⁵ 6 ¹⁵ 7 ¹⁵	12 ¹⁵ 5 ¹⁵ 6 ¹⁵ 7 ¹⁴ 8 ⁰⁰	Rig Service Circ + Work 571s To Bottom Circ Prior To Cementing Rig up Lub. Unit + Cementing WAC.
	8	4	W.O. CEMENT
TOUR 2			
TOUR 3	4 ⁰⁰	12 ⁰⁰	W.O.C.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

SURFACE CASING DETAILS -

RAN 17 JOINTS (522.35') OF 10 3/4" 40.5" J-55, 9 ROUND THREAD,
RANGE 3, NEW SEAMLESS CASING, LANDED AT 538.85
STRING WAS EQUIPPED WITH ONE 10 7/8" LARKIN FLOAT SHOE
AND COLLAR AND THREE CENTRALIZERS. FLOAT SHOE, FLOAT
COLLAR AND COLLARS ON BOTTOM TWO JOINTS WERE ELECTRICALLY
SPOT WELDED TO FORM A SOLID UNIT.
STRING MADE UP AND RUN AS FOLLOWS;

LARKIN FLOAT SHOE 1.30
1 FT. 10 3/4" 40.5" J-55 25.84
LARKIN FLOAT COLLAR 1.50
16 JTS. 10 3/4" 40.5" J-55 496.51
TOTAL STRING 525.15
R.B. TO TOP OF CSG. COLLAR 13.70
LANDED DEPTH 538.85
R.B. TO TOP OF CSG. RANK CLOG.

CEMENTING DETAILS - CEMENTED 522.35' OF 10 3/4" 40.5" J-55
CASING AT 538.85 WITH 450 SACKS CONSTRUCTION CEMENT PLUS 2% Ca Cl₂.
PRECEDED CEMENT WITH 10 BALS. FRESH WATER. MIXED CEMENT TO 15% CAL SLURRY
IN 26 MINS. FROM 6:23 A.M. TO 6:49 A.M. DISPLACED PUNG WITH CEMENT IN 10 MINS.
FROM 7:07 A.M. TO 7:17 A.M. AT 150 PSI. RAMPED PUNG TO 150 PSI. RAMPED BACK, PUNG
AT 7:17 A.M. CEMENTING SWAGE BROKE, FLOATS WELD. APP. 50' CEMENT (CALCULATED)
STILL IN CSG. CIRCULATED AN ESTIMATED 20 SACKS CEMENT. REMENT IN PLACE
7:17 A.M. JAN 30, 1969.

SIGNATURE COMPANY ENGINEER

Wade R. Hicks

TOUR REPORT

CONTRACTOR

PETER BAWDEN DRILLING

62° 31' 21" N

122° 59' 27" W

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FIELD PROPERTY WELL No. **F71**
11 P.M. **Jan 29** 19**69**
12 M. **Jan 29** 19**69**
FOR 24 HOURS ENDING

DRILLING ASSEMBLY		END OF MORNING TOUR				END OF DAYLIGHT TOUR				END OF AFTERNOON TOUR			
STANDS	" 4 1/2 D.P.	NO. 2			FT.	NO.			FT.	NO.			FT.
	" D.P.	NO.			FT.	NO.			FT.	NO.			FT.
DOUBLE	" D.P.				FT.				FT.				FT.
SINGLE	" 4 1/2 D.P.	2		246	17				FT.				FT.
	" O.D.				FT.				FT.				FT.
DRILL COLLAR	" O.D.	NO.			FT.	NO.			FT.	NO.			FT.
REAMER	" O.D.	KIND			FT.	KIND			FT.	KIND			FT.
STABILIZER	" O.D.	KIND			FT.	KIND			FT.	KIND			FT.
JARS		KIND			FT.	KIND			FT.	KIND			FT.
BUMPER SUB.	40			470					FT.				FT.
BIT OR CORE BARREL	Sub			298					FT.				FT.
TOTAL D.P. & TOOLS					FT.				FT.				FT.
KELLY DOWN (BELOW R.B.)				2022	FT.				FT.				FT.
DEPTH OF TOOLS					FT.				FT.				FT.
TOUR		MORNING TOUR				DAYLIGHT TOUR				AFTERNOON TOUR			
DEPTH END OF TOUR				540	FEET				FEET				FEET
DEPTH START OF TOUR				535	FEET				FEET				FEET
FOOTAGE-DRILLED				5	FEET				FEET				FEET

DAY WORK	HOURS				HOURS				HOURS			
	2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE p.s.i.	100											
ROTARY SPEED r.p.m.	150											
WEIGHT ON BIT Tons	1M											
p.H.												
MUD WEIGHT #/gal.	9.3											
MUD VISCOSITY Sec.	60											
MUD CAKE 32nds												
WATER LOSS c.c.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION
2ARR	15	734	HW OSC-3 Con		467	540	83		

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR		DEVIATION RECORD		
	Kind	Depth	Kind	Depth	Kind	Depth	Kind	Depth	Reading
DRILLER	B. H. Abbott		S. CHRISTENSEN						
DERRICKMAN/TOOL DRSR.	A. Wadell		C. ADelman						
HELPER	Paul Cramer		A. DUNCAN						
HELPER	I. Ward		D. BILLCOAT						
HELPER	E. G. Kueper		W. GULBIS						
FIREMAN									
TOOL PUSHER	21/1 K. K. K.								

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		1200	100	DRLS 15" HOLE CONTROLLED
		115	115	CIRC.
		130	300	Rig SERVICE
		300	800	Dropped Survey + Pullout To Run Csg
				Rig up + Run Csg
				Weld on Shoe - Float - Bottom Two
				Csg Collars.
TOUR 2		8	1030	RUN 10 3/4 CASING
		1030	480	W.O. CIRC. HEAD
				DUE TO COLD WEATHER HAD TO WAIT
				ON WELDER TO MAKE 10 3/4" SWEDGE TO CIRC
				LAST 5 ITS Csg TO Btm. CIRCULAR
				PLUGGING AND HANGING UP IN LEDGES
TOUR 3		400	730	W.O. WELDER
		730	930	WELDER FABRICATE 10 3/4" CIRC. HEAD
		930		CIRC Csg BY USING CELLAR JET IN CELLAR
				CELLAR JET PLUGGED OFF W/ ROCKS. L.C. MAT.
				BLOW LINES - WORK ON CELLAR JET
			1200	5 ITS OFF Btm.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

CEMENTING SWAGE TURNED OUT TO BE WRONG SIZE FOR THIS JOB. EIGHT HOURS RIG TIME TO BE CHARGED TO HALIBURTON.

Alade R. P. P. P.
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR PETER BAWDEN Dals Rig 11

CHANDON CS BEARY F-71 60° 30' 21" N 122° 59' 27" W.

☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☒ ROTARY

FIELD PROPERTY WELL No. F71
11 P.M. JAN 28 1969
FOR 24 HOURS ENDING 12 M.

DRILLING ASSEMBLY		END OF MORNING TOUR			END OF DAYLIGHT TOUR			END OF AFTERNOON TOUR		
STANDS	" 42 D.P.	NO. 2	1	8	5	5	FT.	NO. 2	1	8
	" D.P.	NO.					FT.	NO.		
DOUBLE	" D.P.						FT.			
SINGLE	" O.D.						FT.			
PC	" 62 O.D.	3	8	6	5	0	FT.	3	8	6
DRILL COLLAR	" 64 O.D.	NO. 6	1	7	8	9	FT.	NO. 6	1	7
REAMER	" O.D.	KIND					FT.	KIND		
STABILIZER	" O.D.	KIND					FT.	KIND		
JARS		KIND					FT.	KIND		
BUMPER SUB.	40		4	7	0	FT.			4	7
BIT OR CORE BARREL	Sub		2	9	8	FT.			2	9
TOTAL D.P. & TOOLS						FT.				FT.
KELLY DOWN (BELOW R.B.)			8	6	5	FT.			8	6
DEPTH OF TOOLS			4	6	7	FT.			4	6
TOUR										
DEPTH END OF TOUR			4	6	7	FEET			4	6
DEPTH START OF TOUR			4	6	5	FEET			4	6
FOOTAGE DRILLED			2			FEET			2	

DAY WORK		HOURS				HOURS				HOURS			
		2.00 A.M.	4.00 A.M.	6.00 A.M.	8.00 A.M.	10.00 A.M.	12.00 A.M.	2.00 P.M.	4.00 P.M.	6.00 P.M.	8.00 P.M.	10.00 P.M.	12.00 P.M.
PUMP PRESSURE	p.s.i.							100	100	100	100	100	100
ROTARY SPEED	r.p.m.							150	150	150	150	150	150
WEIGHT ON BIT	Tons							1000	485	1M	1M	1M	1M
p.H.													
MUD WEIGHT	#/gal.							9.4	9.4	9.2	9.2	9.4	9.4
MUD VISCOSITY	Sec.							60	60	50	50	60	75
MUD CAKE	32nds												
WATER LOSS	c.c.												
PIT VOLUME	Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recovery	BIT CONDITION
2A	15"	734	HW OSC-3 Conv	32 1/2	283	467	184		1-1-1.
2A RR	15"	734	HW OSC-3 Conv						

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR		DAYLIGHT TOUR		AFTERNOON TOUR		DEVIATION RECORD		
	DRILLER	DERRICKMAN TOOL DRSR.	HELPER	HELPER	HELPER	FIREMAN	Kind	Depth	Reading
	Bill Abbott	A. Wadell	Paul Carron	L. Ward	F. Ghostkeeper		Total	467	3/4
	S. CHRISTENSEN	C. ADelman	A. DOUCET	D. BELCOURT	W. GULBIS				
	T. J. MOORE	L. ADelman	C. KENYON	T. LANGLOIS	A. ADelman				

MUD and CHEMICALS ADDED		From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind	Amount			
TOUR 1		12 ⁰⁰	12 ³⁰	Dals 15" Hole Controlled. By Service Survey @ 467' - 39" Tripout Double Strap + Run back in. Wash Conduction BBL. Mix Mud lost C.M. MATERIAL Failed To Plug Hole Rig up Cellar Jet.
Gel	1200	12 ³⁰	1 ⁰⁰	
Sandust	70 Sars	1 ⁰⁰	2 ⁴⁵	
Fibreg Seal	300	2 ⁰⁰	8 ⁰⁰	
Lime	90			
TOUR 2		8	12 ³⁰	Rig up Cellar Jet Drill
		12 ³⁰	4	
TOUR 3		4 ⁰⁰	5 ⁰⁰	Dals 15" hole controlled By Service Dals 15" hole controlled.
		5 ⁰⁰	5 ¹⁵	
		5 ¹⁵	12 ⁰⁰	

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

SIGNATURE COMPANY ENGINEER

CONTRACTOR PETER BARNER Dots Right

Chaparral S. BEARY F-71 62°30'21" N 59°27" W

FIELD PROPERTY WELL No. F-71
 11 P.M.
 FOR 24 HOURS ENDING 12 M. JAN 27 1969

[illegible]

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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1

[illegible]

11

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100

2

10/14

11/21/11

Wade H. Knepps

SIGNATURE COMPANY ENGINEER

Wade R. Hicks
SIGNATURE COMPANY ENGINEER

TOUR REPORT

CONTRACTOR *P. T. Branden, D. H. Rig*☒ DRILLING ☐ DEEPENING ☐ CABLE TOOLS
☐ REDRILLING ☐ ABANDONING ☐ ROTARYFIELD PROPERTY *CHEVRON CS BERRY* WELL No. *F71*
11 P.M. *JAN 26* 1968
FOR 24 HOURS ENDING 12 M. *JAN 26* 1968

DRILLING ASSEMBLY	END OF MORNING TOUR	END OF DAYLIGHT TOUR	END OF AFTERNOON TOUR
STANDS " D.P.	NO. FT.	NO. FT.	NO. FT.
" D.P.	NO. FT.	NO. FT.	NO. FT.
DOUBLE " D.P.	NO. FT.	NO. FT.	NO. FT.
SINGLE " O.D.	NO. FT.	NO. FT.	NO. FT.
<i>DC</i> " <i>6 3/4</i> O.D.	5650 FT.	36 1/2 O.D. 8650 FT.	3 8650 FT.
DRILL COLLAR " <i>6 3/4</i> O.D.	NO. FT.	NO. 6 17893 FT.	NO. 6 17893 FT.
REAMER " O.D.	KIND FT.	KIND FT.	KIND FT.
STABILIZER " O.D.	KIND FT.	KIND FT.	KIND FT.
JARS	KIND FT.	KIND FT.	KIND FT.
BLUMPER SUB. <i>C/O</i>	KIND FT.	KIND FT.	KIND FT.
BIT OR <i>Sub</i> BARREL	420 FT.	470 FT.	470 FT.
TOTAL D.P. & TOOLS	298 FT.	298 FT.	298 FT.
KELLY DOWN (BELOW R.B.)	FT.	27361 FT.	33552 FT.
DEPTH OF TOOLS	FT.	3889 FT.	1148 FT.
TOUR	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR
DEPTH END OF TOUR	FEET	310 FEET	347 FEET
DEPTH START OF TOUR	195 FEET	280 FEET	310 FEET
FOOTAGE DRILLED	FEET	30 FEET	37 FEET

DAY WORK	2:00 A.M.	4:00 A.M.	6:00 A.M.	8:00 A.M.	10:00 A.M.	12:00 A.M.	2:00 P.M.	4:00 P.M.	6:00 P.M.	8:00 P.M.	10:00 P.M.	12:00 P.M.
PUMP PRESSURE p.s.i.	250	250	250		250	250	250	250	250	250	250	250
ROTARY SPEED r.p.m.	140	140	140		140	140	140	140	140	150	150	150
WEIGHT ON BIT Tons	8	6	6		3	1	1	1	1	1	1	1
p.H.												
MUD WEIGHT #/gal.	9.3	9.3	9.3	9.3	9.2	9.3	9.3	9.3	9.3	9.3	9.3	9.3
MUD VISCOSITY Sec.	41	54	54	48	47	50	64	68	95	85	65	66
MUD CAKE 32nds												
WATER LOSS c.c.												
PIT VOLUME Ft.-Ins.												

NO.	SIZE	SERIAL	BIT OR CORE BARREL KIND AND TYPE	TOTAL HOURS	FROM	TO	Total Bit Footage	Core Recov'y	BIT CONDITION
1A	15	94627	HW (CONV) OSC-3	22 1/4	0	283	283		4-1-I
2A	15	734	HW-OSC-3		283				

CUTTER NO.	TYPE	IN AT - FT.	OUT AT - FT.	CENTRE BIT No.	CATCHER No.	TYPE	IN AT - FT.	OUT AT - FT.

SIGNATURES	MORNING TOUR	DAYLIGHT TOUR	AFTERNOON TOUR	DEVIATION RECORD
DRILLER	<i>B. H. Abbott</i>	<i>S. CHRISTENSEN</i>	<i>J. T. MOORE</i>	Kind Depth Reading
DERRICKMAN	<i>A. Wadell</i>	<i>C. ADELMAN</i>	<i>L. ADELMAN</i>	To/Co 220 1/2
TOOL DRSR.	<i>Paul Carrow</i>	<i>A. DOUCET</i>	<i>C. KANYON</i>	To/Co 265 3/4
HELPER	<i>L. W. RAO</i>	<i>D. BELCOURT</i>	<i>JACK LANGHNS</i>	To/Co 283 3/4
HELPER	<i>E. G. ST. KEEPER</i>	<i>W. GULDIS</i>	<i>A. ADELMAN</i>	" 310 10
HELPER				
FIREMAN				
TOOL PUSHER				

MUD and CHEMICALS ADDED	From	To	OTHER HOURLY OPERATING DETAIL WORK DONE
Kind Amount			
TOUR 1			
GEL	1	12 00 12 15	Rig SERVICE.
LIME	40 #	12 15 1 00	DRILL 15" HOLE
CAUSTIC	50 #	1 00 2 00	CORE PRIOR TO SURVEY
		2 00 2 15	SURVEY @ 220-2
		2 15	
TOUR 2			
GEL	800 #	8 30 8 45	DRILL 15" HOLE
LIME	10 #	8 45 11 15	SURVEY
		11 15 4	TRIP FOR BIT # 2A
			DRILL
TOUR 3			
	400	5 30	DRILL 15" HOLE controlled
	530	5 45	Rig SERVICE
	545	6 00	DRILL @ 310
	6 00	12 00	DRILL 15" HOLE controlled.

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

INITIAL CAMP OPERATING DAY JAN 19, 1969 @ 260/D AS PER CONT.
INITIAL BOILER OPERATING DAY JAN 23, 1969 @ 40/D AS PER CONT.
STARTED RIGGING UP JAN 22, 1969 AT RATE OF 1200/D

W. R. Bick
SIGNATURE COMPANY ENGINEER

62° 30' 21" N 122° 59' 27" W

FIELD PROPERTY WELL No. P71
 11 P.M. JAN 25
 FOR 24 HOURS ENDING 12 M. 1969

[illegible]

CEMENTING, TESTING, FISHING, SPECIAL JOB DETAILS, INCLUDING ENGINEERING SUMMARIES

WELL NAME - CHEVRON CS BERRY F-71
LOCATION - 62° 30' 21" N 122° 59' 27" W.

SURVEYED GROUND ELEV. 740.00
BELL 2.00

K.B. To Ground	<u>14.20</u>
K.B. Elev.	756.20

DRAWING AUTHORITY # 345
CONTRACTOR - PETER BRUNDEN DRILLING SERVICES LTD. WITH NAT.
T-32 DRAWWORKS POWERED BY 1 SET OF 671 STAMPS, 129'
L.C. MOORE DERRICK, OILWELL 7" x 14" 2HP MUD PUMP,
FXD 12" x 6" STANDBY. RIG IS EQUIPPED WITH 900 SER.
HYDRIL, 900 SI CAMERON BOP'S WITH BEAK RAMS AND
4 1/2" DRILL PIPE RAMS. ALL BOP EQUIPMENT CAN BE
OPERATED HYDRAULICLY FROM RIG FLOOR OR REMOTE CONTROLS
AT ACCUMULATOR, NITROGEN BOTTLES, OR BAKER HAND PUMPS.
PIPE RAMS AND BEIND RAMS CAN BE OPERATED MANUALLY.
ADDITIONAL EQUIPMENT INCLUDES 4 1/2" X H. DRILL PIPE, MUD
TANK 5' x 10' x 4' (THREE COMPARTMENTS), 100 PSI. OPERATING PRESS
BOILER, SINGLE SHALE SHAKER.