

FILE NOTATIONS

Entered in NID File

Checked by Chief

Entered On S R Sheet \_\_\_\_\_

Copy NID to Field Office \_\_\_\_\_

Location Map Pinned

Approval Letter

Card Indexed

Disapproval Letter \_\_\_\_\_

IWR for State or Fee Land \_\_\_\_\_

COMPLETION DATA:

Date Well Completed 1-7-62

Location Inspected 8-29-22

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_

Bond released H.L.C.

GW \_\_\_\_\_ OS \_\_\_\_\_ PA

State of Fee Land \_\_\_\_\_

LOGS FILED

Driller's Log 1-30-62

Electric Logs (No. ) 3

E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N  Micro \_\_\_\_\_

Lat.  Mi-L \_\_\_\_\_ Sonic  Others \_\_\_\_\_

Copy to HC

Form 9-331a  
(Feb. 1951)

Budget Bureau No. 42-R358.4  
Approval expires 12-31-60.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. Utah ~~24420~~ 016390

Unit \_\_\_\_\_

X		

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Bakersfield, California, October 19, 19 61

Hatch Mesa north east  
Well No. 1 is located 1430 ft. from S line and 2200 ft. from W line of sec. 22

NE/4, SW/4 22  
(1/4 Sec. and Sec. No.)

T. 28S. R. 21E.  
(Twp.) (Range)

S.L.M.  
(Meridian)

Hatch Mesa Area  
(Field)

San Juan County  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the Kelly bushing ~~drill floor~~ above sea level is 5998 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

We propose to drill this well to a total depth of 9000'+ using the following casing program:

10-3/4" 40.50# H-40 casing cemented at 2200'+.

In the event commercial production is encountered, 7" 26# or 5-1/2" 17# casing will be run and cemented with sufficient cement to fill above the Paradox salt section.

Tentative spud date: On or about October 24, 1961.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

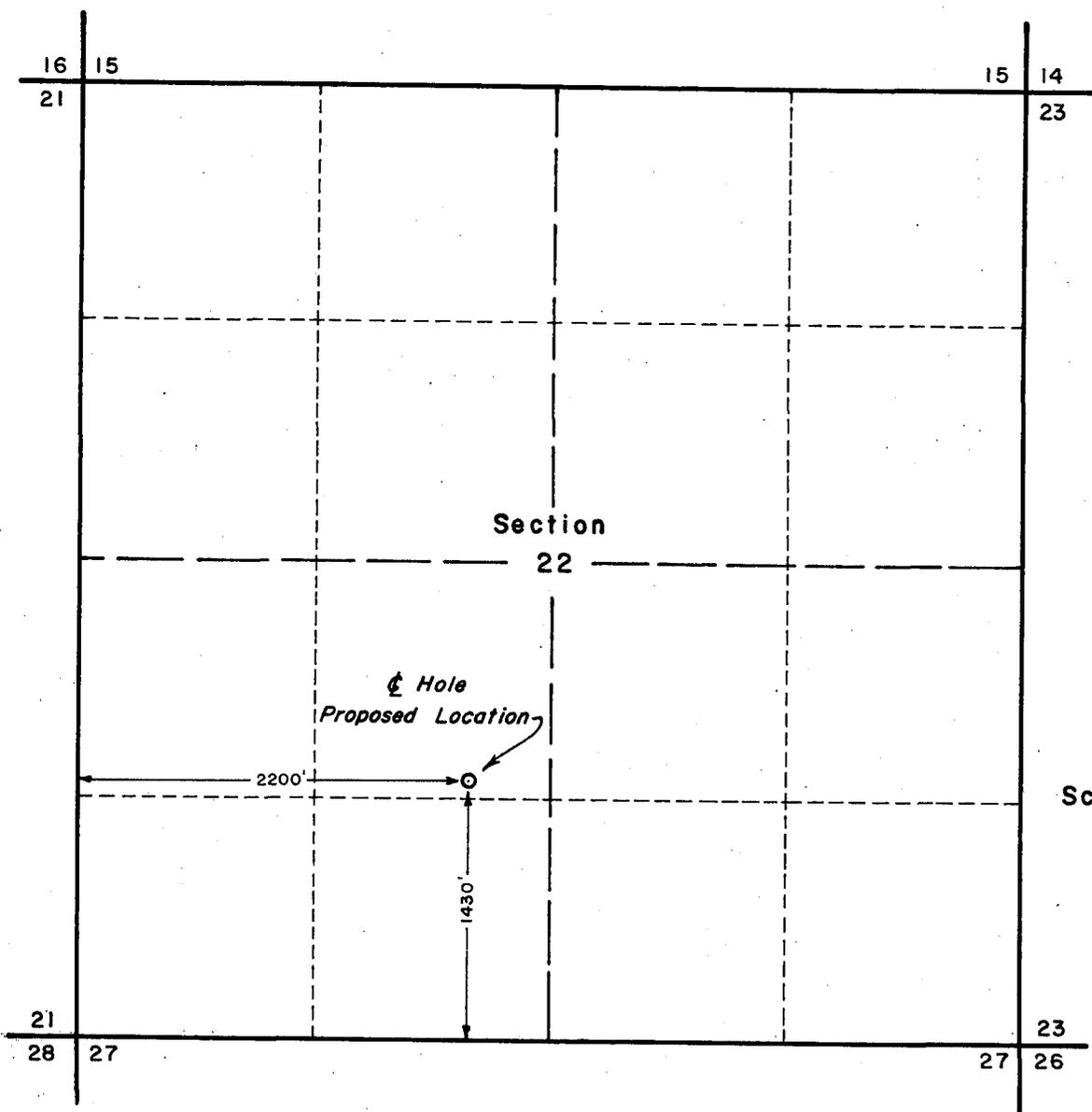
Company RICHFIELD OIL CORPORATION

Address P. O. Box 1049

Salt Lake City 10, Utah

By David M. Hanger  
David M. Hanger

Title Development Engineer



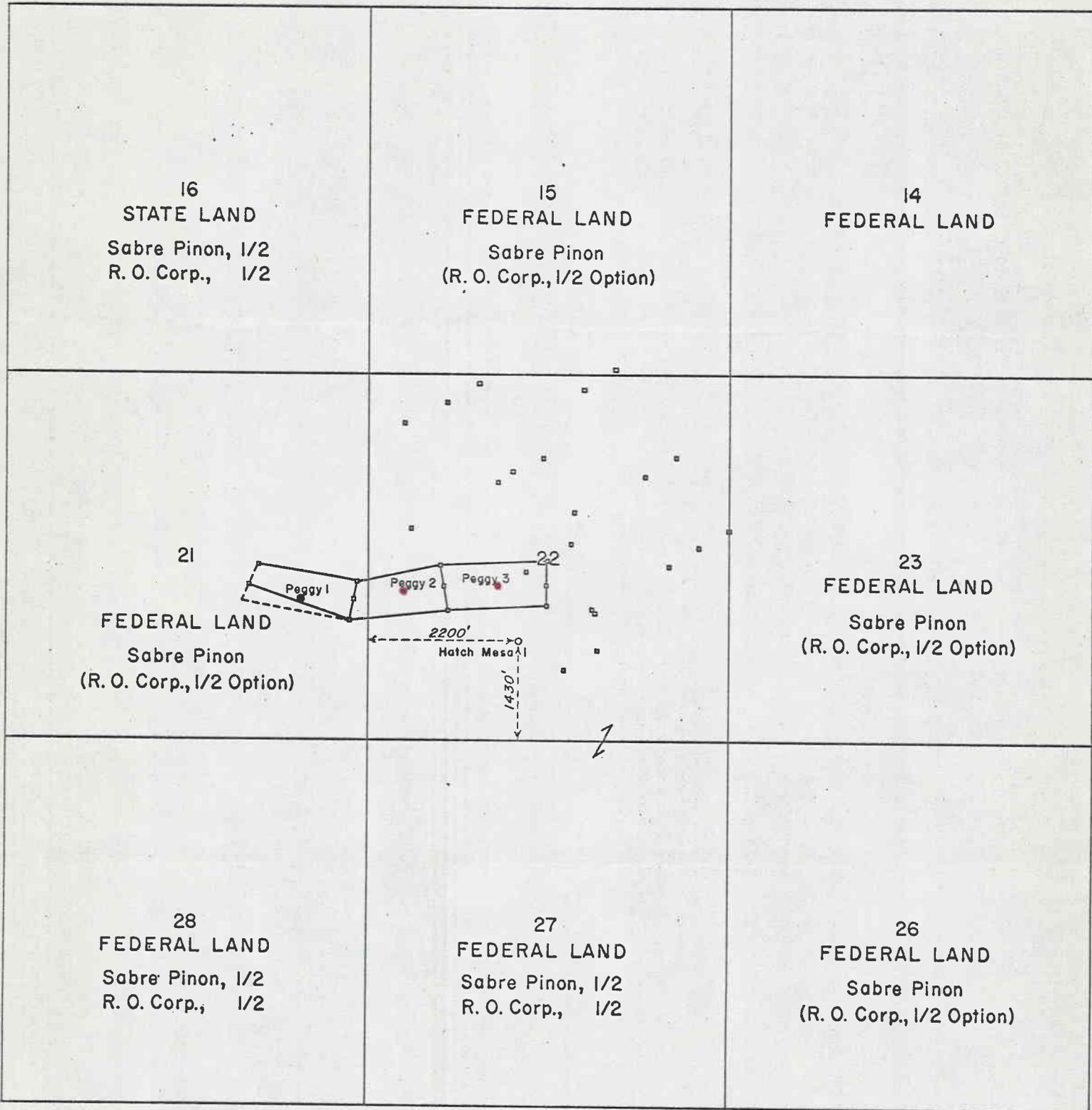
**WELL LOCATION: Richfield Oil Corporation - Hatch Mesa #1**

Located 1430 feet North of the South line and 2200 feet East of the West line of Section 22,  
 Township 28 South, Range 21 East, Salt Lake Base & Meridian.  
 San Juan County, Utah  
 Existing ground elevation determined at ~~5986~~ feet based on U.S.G.S. datum.  
 GRADED 5985

I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

*E. M. Clark*  
 E. M. CLARK  
 Registered Land Surveyor  
 State of Utah (No. 2307)

<b>RICHFIELD OIL CORPORATION          SALT LAKE CITY, UTAH</b>	
<b>WELL LOCATION PLAT          Sec. 22, T. 28 S., R. 21 E.          San Juan Co., Utah</b>	
<b>E. M. CLARK &amp; ASSOC.</b> Durango, Colorado	DATE: October 12, 1961 FILE NO: 61086



PORTION OF T. 28 S., R. 21 E., S. L. M.  
SAN JUAN COUNTY, UTAH

1" = 2000'

# R I C H F I E L D   O I L   C O R P O R A T I O N

R I C H F I E L D   B U I L D I N G   •   L O S   A N G E L E S   1 7   •   C A L I F O R N I A

October 25, 1961

Mr. C. B. Feight  
Executive Secretary  
Oil and Gas Conservation Commission  
Salt Lake City, Utah

Gentlemen:

RE: Richfield Oil Corporation's  
Hatch Mesa No. 1 Well  
Section 22, T. 28 S., R. 21 E.,  
S.L.M., San Juan County, Utah

Pursuant to our telephone conversation of October 24, at which time permission was granted to Richfield to proceed with the drilling of our Hatch Mesa No. 1 well, we respectfully submit the following considerations that we used in the selection of the present well location.

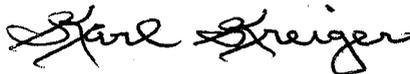
1. The present location required only a one foot cut as compared to the theoretical location where a 3 to 4 foot cut would be required; thus, the topographical conditions for the theoretical location would substantially increase the location costs.
2. The theoretical well location would place the well approximately 100 feet south of the mining claim, Peggy No. 3, as shown on the attached map, thereby increasing the hazards of drilling the surface hole in an area adjacent to mining activities; such as, pits, shafts, core holes, etc. We felt that the theoretical location would create hazardous conditions for both mining and oil operations.
3. The present location of the well fell within the area of prime interest for geological exploration as determined from extensive and costly seismic surveys.
4. The possibility of directionally drilling the well from the present location to the theoretical location was considered; however, in our opinion, this would be an extremely hazardous operation, as the top 4,500 feet of the hole is programed to be drilled with air as the circulating medium, thereby eliminating the directional control. The expected 2,800 feet of fast drilling salt section lying immediately above the objective horizon would make directional control in this portion of the hole extremely difficult, if not impossible.

5. The ownership of all oil and gas leases within a radius of 660 feet of the present location is common with the ownership of the oil and gas leases under said location and no operating interest other than that owned by Sabre Piñon and Richfield is involved.

Thus, the present location of the well was selected after giving full consideration to the matters stated above and realizing of course that the locations for the exploratory wells are judged on the basis of a different set of circumstances than are considered in the selection of development well locations.

In the event a discovery is made at the proposed location, you have Richfield's assurance that it will proceed with development drilling in full compliance with the Rules and Regulations and in conformity with such special directives as the Commission may issue to offset any advantage which Richfield might gain over other producers by use of the proposed location.

Thank you again for your help in this matter.



KARL KREIGER  
Manager of Operations

JBH:smm  
attach.

AIRMAIL

October 26, 1961

Richfield Oil Corporation  
P. O. Box 1049  
Salt Lake City 10, Utah

Attn: David M. Hanger, Development Eng.

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Hatch Mesa #1, which is to be located 1430 feet from the south line and 2200 feet from the west line of Section 22, Township 28 South, Range 21 East, S1EM, San Juan County, Utah.

This Commission is hereby granting approval to drill said well on said unorthodox location as we are aware of certain difficulties that might arise from mining activity which is present in this area.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,  
EXECUTIVE DIRECTOR

CBF:avg

cc: Jerry W. Long, Dist. Eng.  
U. S. Geological Survey

H. L. Coonts - OGCC, Moab

*State copy*

Budget Bureau No. 42-R356.5  
Approval expires 12-31-60.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City  
LEASE NUMBER Utah 016390  
UNIT \_\_\_\_\_

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field Wild Cat

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1961,

Agent's address P.O. Box 1049 Company Richfield Oil Corporation

Salt Lake City 10, Utah Signed *[Signature]*

Phone DA-88891 Agent's title District Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW - 22	28S	21E	1							Spudded in 10/23/61 Drilled 15" hole to 2197' prep to set surface casing

NOTE.—There were 0 runs or sales of oil; 0 M cu. ft. of gas sold;

0 runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

November 2, 1961

Richfield Oil Company  
P. O. Box 1049  
Salt Lake City 10, Utah

Gentlemen:

On October 31, 1961, Mr. Harvey L. Coonts, our Engineer in Moab, Utah inspected your Well #1 Hatch Mesa, Sec. 22, T. 28 S., R. 21 E., San Juan Co., Utah. Mr. Coonts reported that the location did not have an identification sign or a safety line. You are requested to immediately install a safety line and erect an identification sign in compliance with the State of Utah and the U. S. Geological Survey requirements.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

ROBERT L. SCHMIDT,  
CHIEF PETROLEUM ENGINEER

RLS:kp

cc: Harvey L. Coonts  
Moab, Utah

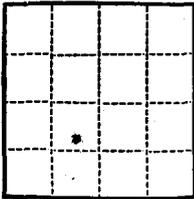
(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. UTAH - 016190

Unit \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Salt Lake City, Utah - Nov. 6, 1961

Well No. 1 is located 1430 ft. from 1000 line and 2200 ft. from 1000 line of sec. 22

NE/4 SW/4 Sec. 22 20 N 21 E 113W  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
1134 Cat San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the KB above sea level is 5998 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

- Spudded in at 2:00 PM Oct. 23, 1961 and drilled 24" hole 9-43'. Cemented 16" 65# conductor at 42' KB with 60 sacks construction cement. Cement in place 5:30 PM October 23, 1961.
- Drilled 15" hole 43-2197' with Air and Air mist, filled hole with light weight gel mud, conditioned hole. Run and cemented 60 joints 2204' (2176' net) of 10 3/4" 40.5# J-55 SBC casing at 2191' KB with 1160 sacks Ideal Portland cement premixed with 1/2 gal and 1/4 lb. per sack of flo-seal, followed by 200 sacks Ideal Portland cement premixed with 2% calcium chloride. Cement in place at 12:25 PM Nov. 1, 1961. Had 1 barrel cement return. Steel cemented 24 hours, installed BQFE and tested with 1000 psi for 30 mins OK.
- Drilling 9 7/8" hole with Air and air mist at 2170'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Richfield Oil Corporation

Address F.O. Box 1049

Salt Lake City 10, Utah

Ut-85891

By David M. Janger

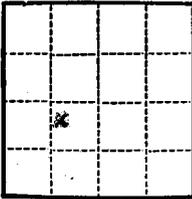
Title District Engineer

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. Utah - 016392

Unit \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Nov. 30, 19 61

Well No. 1 is located 1430 ft. from S line and 2200 ft. from W line of sec. 22  
NE/4 SW/4 Sec. 22 20S 21E 51N  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wild Cat San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~shank~~ <sup>KB</sup> above sea level is 3995 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Drilled 9 7/8" hole to 4792' Run BHT #1 - 4612-4766' for 1 hour flow test. 3/4" been 30 min initial shut in, 1 hour flow, 45 min final shut in. Had very weak blow for 8 min and dead for balance of test. Recovered 100' of drilling fluid. ISI 300 psi, IFF 185 psi PFP 275 psi, FRI 300 psi, PFP 2550 psi. Drilling ahead.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Richfield Oil Corporation

Address P.O. Box 1049

Salt Lake City 16, Utah

DA-68891

By R. M. Harger  
 Title District Engineer

*Handwritten initials*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City  
LEASE NUMBER Utah 016390  
UNIT \_\_\_\_\_

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field Wild Cat

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 19 61,

Agent's address P.O. Box 1049 Company Richfield Oil Corporation

Salt Lake City 10, Utah Signed *[Signature]*

Phone Davis 88891 Agent's title District Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE SW 22	28S	21E	1							Drilling 9 7/8" hole at 7385'.  DST #1 4612-4766': 3/4" bean, 30 mins initial shut in, 1 hour flow, 45 min final shut in. Recovered 100 ft of drilling fluid. ISI 320 psi; IFP 185 psi; FFP 275 psi; FSI 300 psi; FHP 2550 psi.  Top of Salt 4792'

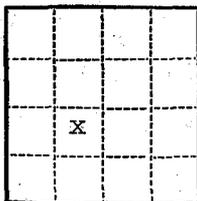
NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

copy to HC

RLI



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. Utah 016390

Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 18, 1961

Hatch Mesa  
Well No. 1 is located 1430 ft. from [S] line and 2200 ft. from [W] line of sec. 22

NE/4, SW/4, Section 22 28 S. 21 E. S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
wildcat San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

Kelly Bushing  
The elevation of the ~~drill floor~~ above sea level is 5998 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Cored 7-5/16" hole 7595-7632'.
2. Opened 7-5/16" hole to 8-3/4" and drilled 8-3/4" hole 7632-7751'.
3. Cored 7-5/16" hole 7751-7789'.
4. Opened 7-5/16" hole to 8-3/4".
5. D.S.T. #3 7726-7789': 3/4" bean, 45-minute initial shut-in, 1-hour flow, 45-minute final shut-in. Recovered 5526' net rise of muddy salt water to black sulphur salt water. IHP 4300 psi, ISI 2685 psi, IFP 2350 psi, FFP 2685 psi, FSI 2685 psi, FHP 4300 psi.
6. Drilling ahead in 8-3/4" hole to 7859'.

NOTE: Ran Gamma Ray-Neutron-Laterolog and Sonic-Caliper logs at 7479'.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company RICHFIELD OIL CORPORATION

Address P. O. Box 1049

Salt Lake City 10, Utah

DA 8-8891

By D. M. Hanger

Title Development Engineer

128  
12/15

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City  
LEASE NUMBER Utah - 016390  
UNIT \_\_\_\_\_

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County San Juan Field Wild Cat

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1961,

Agent's address P.O. Box 1049 Company Richfield Oil Corporation  
Salt Lake City 10, Utah Signed *[Signature]*

Phone DA-88891 Agent's title Dist. Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NW 22	28S	21E	1							<p>Drilled 8 3/4" hole to 8472' drilling ahead</p> <p>DST #2: 7329-7385: 3/4" beam, 45 mins ISI, 1 hour flow, 45 mins PSI, recovered 90' drilling mid. ISI 105 psi, IFF 85 psi, FFP 85 psi, FHP 4085 psi.</p> <p>DST #3 - 7726-7789': 3/4" beam, 1 hour flow, 45 min ISI, 45 mins PSI, recovered 5526' muddy salt water to black sulphur salt water. IHP 4300 psi, ISI 2685 psi, IFF 2350 psi, FFP 2685 psi, PSI 2685 psi, FHP 4300 psi.</p> <p>Run Gamma Ray-Neutron Laterlog and Sonic-Caliper log at 7479'</p>

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

December 18, 1961

MEMO FOR FILING:

Re: Richfield Oil Corp.  
Hatch Mesa #1  
Sec. 22, T. 28 S., R. 21 E.,  
San Juan County, Utah

On December 15, 1961, I went over the logs on the above well with the company engineer to work out a tentative plugging program since it appeared that they were going to P/A. I set up the following tops and plugging program and they were subsequently approved by Jerry Long, USGS:

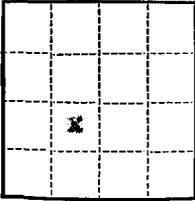
<u>FEATURE</u>	<u>DEPTH</u>	<u>PLUG</u>
Surface		10 sx.
Top Cutler	1732' (?)	
Surface casing	2191'	100' plug
Hermosa	3297'	100' plug
Top Salt	4798'	100' plug
Bottom Salt	7455'	100' plug
Mississippian	7668'	100' plug

HARVEY L. COONTS,  
PETROLEUM ENGINEER

HLC:kp

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City  
Lease No. Utah 016390  
Unit \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	XXXX
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 8, 19 62

Hatch Mesa  
Well No. 1 is located 1430 ft. from S line and 2200 ft. from W line of sec. 22  
NE/4 SW/4 Sec. 22 Twp. 28 S. R. 21 E. S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wilcox San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~datum~~ <sup>KB</sup> above sea level is 5998 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Drilled 8 3/4" hole to 8518' TD, conditioned hole to run logs.
2. Ran Gamma Ray-Neutron, Sonic-Caliper, Laterlog and CDM log.
3. DST #4-8409-8518'; 3/4" bean no cushion, 45 min ISI, 1 hour flow, 45 min FSI, Had slight blow and dead for balance of test. Recovered 90' drilling fluid. IHP 4880 psi, ISI 2635 psi, IF 65 psi, FSI 2540 psi, FF 65 psi, FHP 4880 psi.
4. Prep to abandon and plug.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

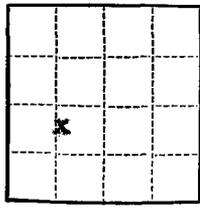
Company Richfield Oil Corporation  
Address P.O. Box 1049  
Salt Lake City, Utah  
DA-88891  
By [Signature] for  
D. M. Hanger  
Title District Clerk

Copy to HC

R.L.

(SUBMIT IN TRIPLICATE)  
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City  
Lease No. Utah 016390  
Unit \_\_\_\_\_



SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	XXXX		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 8, 1962

Hatch Mesa  
Well No. 1 is located 1430 ft. from S line and 2200 ft. from W line of sec. 22  
NE/4 SW/4 Sec. 22 28 S. 21 E. S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wilcoxon San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~surface~~ <sup>KB</sup> above sea level is 5998 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

(Confirming telephone conversation with U.S.G.S.-Durango, Colo. & State Engineer in Moab, Utah).

1. Place a plug at 8502-8105'+- with 35 sacks constn cement.
2. Place a plug at 7694-7594'+- with 50 sacks constn cement.
3. Place a plug at 7508-7408'+- with 50 sacks salt saturated constn cement.
4. Place a plug at 4860-4760'+- with 50 sacks salt saturated constn cement.'
5. Place a plug at 3368-3258'+- with 60 sacks constn cement.
6. Place a plug at 2242-2090'+- with 75 sacks constn cement across shoe of surface cag.
7. Place surface plug, erect regulation U.S.G.S. abandonment marker, clean and abandon location.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Richfield Oil Corporation

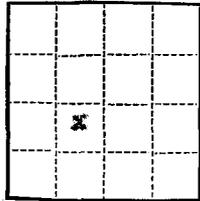
Address P.O. Box 1049

Salt Lake City 10, Utah

DA-88691

By [Signature]  
U. B. Milstead, Jr. for  
D. M. Hanger  
Title District clerk

Copy to HC



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City  
Lease No. Utah-016390  
Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 12, 1962

Hatch Mesa #  
Well No. 1 is located 1430 ft. from SW line and 2200 ft. from W line of sec. 22

NE/4 SW/4 Sec. 22 28 S. 21 E. S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wildcat San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~water table~~ <sup>KB</sup> ~~water table~~ above sea level is 5998 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

This well was plugged as follows:

1. Plugged 8205-8105' with 35 sacks constn cement in place 9:00 AM 1-5-62
2. Plugged 7694-7594' with 50 sacks constn cement in place 9:40 AM
3. Plugged 7508-7408' with 50 sacks salt saturated cement, in place 10:05 AM
4. Plugged 4860-4760' with 50 sacks salt saturated cement, in place 11:20 AM
5. Plugged 3368-3258' with 60 sacks constn cement, in place 11:53 AM
6. Plugged 2242-2090' with 75 sacks constn cement, across shoe of surface casing in place at 12:20 PM.
7. Place 10' cement surface plug and erect regulation U.S.G.S. abandonment marker.

HOLE ABANDONED JANUARY 7, 1962.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Richfield Oil Corporation

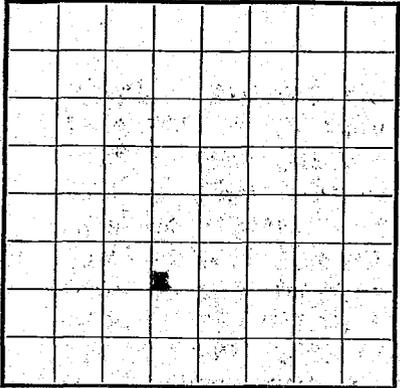
Address P.O. Box 1049

Salt Lake City 10, Utah

DA-88891

By J. B. Milstead, Jr. for  
D. M. Hanger  
Title District Clerk

U. S. LAND OFFICE Salt Lake City  
 SERIAL NUMBER Utah - 016390  
 LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Nichols Oil Corporation Address P.O. Box 1049 - Salt Lake City 10, Utah

Lessor or Tract Utah Mesa Field Wildcat State Utah

Well No. 1 Sec 22 T 36S R. 21E Meridian 11N County Salt Lake

Location 1420 ft. N. of 9 Line and 2200 ft. E. of W Line of Sec. 22 Elevation 3990' KB  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed D. H. Hanger District Engineer

Date January 23, 1962 Title District Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling October 23, 1960 Finished drilling January 3, 1962

OIL OR GAS SANDS OR ZONES  
 (Denote gas by G)

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From--	To--	
<u>16"</u>	<u>69#</u>	<u>---</u>	<u>---</u>	<u>23'</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>Conductor</u>
<u>10 3/4"</u>	<u>40.3#</u>	<u>---</u>	<u>J-55</u>	<u>2178'</u>	<u>Open</u>	<u>---</u>	<u>---</u>	<u>---</u>	<u>---</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10 3/4"</u>	<u>2197'</u>	<u>1300 Class "A"</u>	<u>Halliburton</u>	<u>9.5#/gal</u>	<u>213 barrels</u>

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

FOLD MARK

FOLD

**PLUGS AND ADAPTERS**

Heaving plug—Material ..... Length ..... Depth set .....  
 Adapters—Material ..... Size .....

**SHOOTING RECORD**

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

**TOOLS USED**

Rotary tools were used from 0 feet to 8518 feet, and from ..... feet to ..... feet  
 Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

**DATES**

**HOLE ABANDONED JANUARY 7, 19 62** Put to producing ..... , 19.....  
 The production for the first 24 hours was ..... barrels of fluid of which ..... % was oil; ..... %  
 emulsion; ..... % water; and ..... % sediment. Gravity, °Bé. ....  
 If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....  
 Rock pressure, lbs. per sq. in. ....

**EMPLOYEES**

**B. D. Nashin** ..... , Driller **J. D. Hill** ..... , Driller  
**A. C. Lee** ..... , Driller **A. H. Swall** ..... , Driller

**FORMATION RECORD**

**Calvert Drilling Company**

FROM—	TO—	TOTAL FEET	FORMATION
2200	3310	1110	Siltstone, sandstone with interbedded shales Limestone, shale and sandstone with occasional dolomite Dolomite and shale Salt with siltstone, anhydrite, dolomite and shale Shale, anhydrite and dolomite Limestone and dolomite with sandstone below 8410'
3310	4569	1259	
4569	4860	291	
4860	7310	2450	
7310	7546	236	
7546	8518	972	
Ground	650	650	Jurassic - Navajo
650	900	250	Triassic - Wingate
900	1300	400	do - Chinle
1300	1300	70	do - Shinarump
1300	1732	432	do - Moenkopi
1732	3097	1365	Permian - Cutler
3097	4460	1163	Pennsylvanian - Upper Harrow
4460	4798	338	do - Paradox
4798	7542	2744	do - Paradox Salt
7542	7600	58	do - Lower Harrow
7600	7655	55	do - Nolas
7655	8160	505	Mississippian
8160	8300	140	Devonian - Gaway
8300	8410	110	do - Elbert
8410	8518	108	do - McInnes

(OVER)

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

Spudded in 2:00PM October 23, 1951. Drilled 2 1/2" hole to 43' and cemented 15' 6 1/2" conductor at 43'. Air drilled 1 1/2" hole 43'-2197'. Ran and cemented 10 3/4" 40.2# J-55 surface casing at 2197' with 1100 sacks class "A" cement pre-greased with 1/2 gal and 1/4 #/sack Flocal followed by 200 sacks neat class "A" cement. Installed and tested DOWE with 1000 psi for 30 mins. Mist drilled 9 7/8" hole 2197-3318'. Filled hole with mud and drilled 9 7/8" hole 3318-4766.

TEST #1 4618-4766': Tool open for 64 mins, opened with very weak blow for 5 mins, dead for remainder of test. Recovered 100' of drilling mud, no shows. IHP 2450 psi, IHIP (30 mins) 323 psi, IFF 197 psi, FFF 292 psi, FBIP (45 mins) 301 psi, FIP 2506 1/2 90° estimated BEP.

Drilled 9 7/8" hole 4766-7335'

TEST #2 7329-7335': Tool open for 72 mins, opened with very weak blow for 6 mins, dead for remainder of test. Recovered 90' of drilling mud. No shows. IHP 4070 psi, IBIP (45 mins) 140 psi, IFF 113 psi, FFF 124 psi, FBIP (46 mins) 139 psi FIP 4070 psi, 112° estimated BEP.

Diamond cored 7 5/16" hole 7335-7404', opened hole to 9 7/8" and drilled 9 7/8" hole 7404-7479'. Ran Gamma Ray-Neutron-Laterolog, Sonic-Caliper log from 7479'.

Drilled 9 7/8" hole 7479-7595', diamond cored 7 5/16" hole 7595-7632'. Opened hole to 8 3/8" and drilled 8 3/4" hole 7632-7751'. Diamond cored 7 5/16" hole 7751-7789'. Opened hole to 8 3/4" to 7786'.

TEST #3 7786-7789': Tool open 1 hour, opened with light steady blow, decreasing to very faint in 55 mins, less than dead for last 5 mins. Recovered 3200' fluid, including 200' of drilling mud, 3075' muddy salt water, 2250' of black sulphur water. IHP 4333 psi, IHIP (46 mins) 2707 psi, IFF 2432 psi, FFF 2700 psi, FBIP 2710 psi, FIP 4300 psi, 190° BEP.

Opened hole to 8 3/4" 7786-7789' and drilled 8 3/4" hole 7789-8518' the total depth reached on January 3, 1952. Ran Gamma Ray-Neutron log, Sonic-Caliper log, Laterolog and continuous Dipmeter from 8518'.

TEST #4 8409-8518': Open 66 mins, opened with faint blow for 5 mins during first blow, closed in for 44 mins initial shut in, Re-opened tool with no blow. Recovered 20' of drilling mud, no shows. IHP 4834 psi, IHIP (44 mins) 2708 psi, IFF 119 psi, FFF 121 psi, FBIP (45 mins) 2547 psi, FIP 4832 psi, 150° BEP.

Plug #1 8205-8105' -- with 35 sacks class "A" cement.

Plug #2 7694-7582' -- with 50 sacks class "A" cement.

Plug #3 7508-7396' -- with 90 sacks class "A" cement.

Plug #4 4860-4748' -- with 50 sacks class "A" salt saturated cement.

Plug #5 1368-3234' -- with 60 sacks class "A" cement.

Plug #6 2242-2077' -- with 75 sacks class "A" cement.

Laid down drill pipe, removed DOWE and landing bars and placed surface plug from 39-19'. Erected U.S.G.O.S. monument. HOLE ABANDONED JANUARY 7, 1952.