

# FILE NOTATIONS

Entered in NID File

✓

Entered On S R Sheet

✓

Location Map Pinned

✓

Card Indexed

✓

IWR for State or Fee Land

\_\_\_\_\_

Checked by Chief

✓

Copy NID to Field Office

✓

Approval Letter

✓

Disapproval Letter

\_\_\_\_\_

## COMPLETION DATA:

Date Well Completed

2-3-51

OW

WW

TA

GW

OS

PA

X

Location Inspected

\_\_\_\_\_

Bond released

State of Fee Land

\_\_\_\_\_

## LOGS FILED

Driller's Log

✓

Electric Logs (No.)

3

E

I

E-I

GR

GR-N

Micro

✓

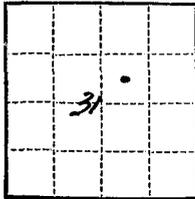
Lat

Mi-L

Sonic

Others

\_\_\_\_\_



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake  
Lease No. 067364-A  
Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	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)

November 23, 19 56

Squaw Creek

Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 31

C SW 1 NE 1 Sec. 31  
(1/4 Sec. and Sec. No.)

37 S 26E  
(Twp.) (Range)

SL BM  
(Meridian)

Paradox Basin Area  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is 5915 ft. (est.)

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. Drill adequate size hole to accomodate 13 3/8" casing to 375'+-. Run and cement 13 3/8" 5lb# J-55 casing at 375'+- with 400 sacks constn cement mixed with 2% gel and treated with 2% calcium chloride. Install and test BOP with 750#.
2. Drill 9" hole to approx. 2500', if required a 2500' 9 5/8" protection string will be run to control potential water flow and/or lost circulation. Continue drilling full gauge hole and coring 6 1/8" hole as directed to TD (est. 5700').
3. In the event of commercial production a supplemental program will be submitted.
4. The well is to be drilled by a rotary type drilling rig. Surface formation at this location is the Dakota, and objective formation is the Paradox Salt.

CONDITIONS OF APPROVAL ATTACHED

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 631

Billings, Montana,

By Robert E. Carlson

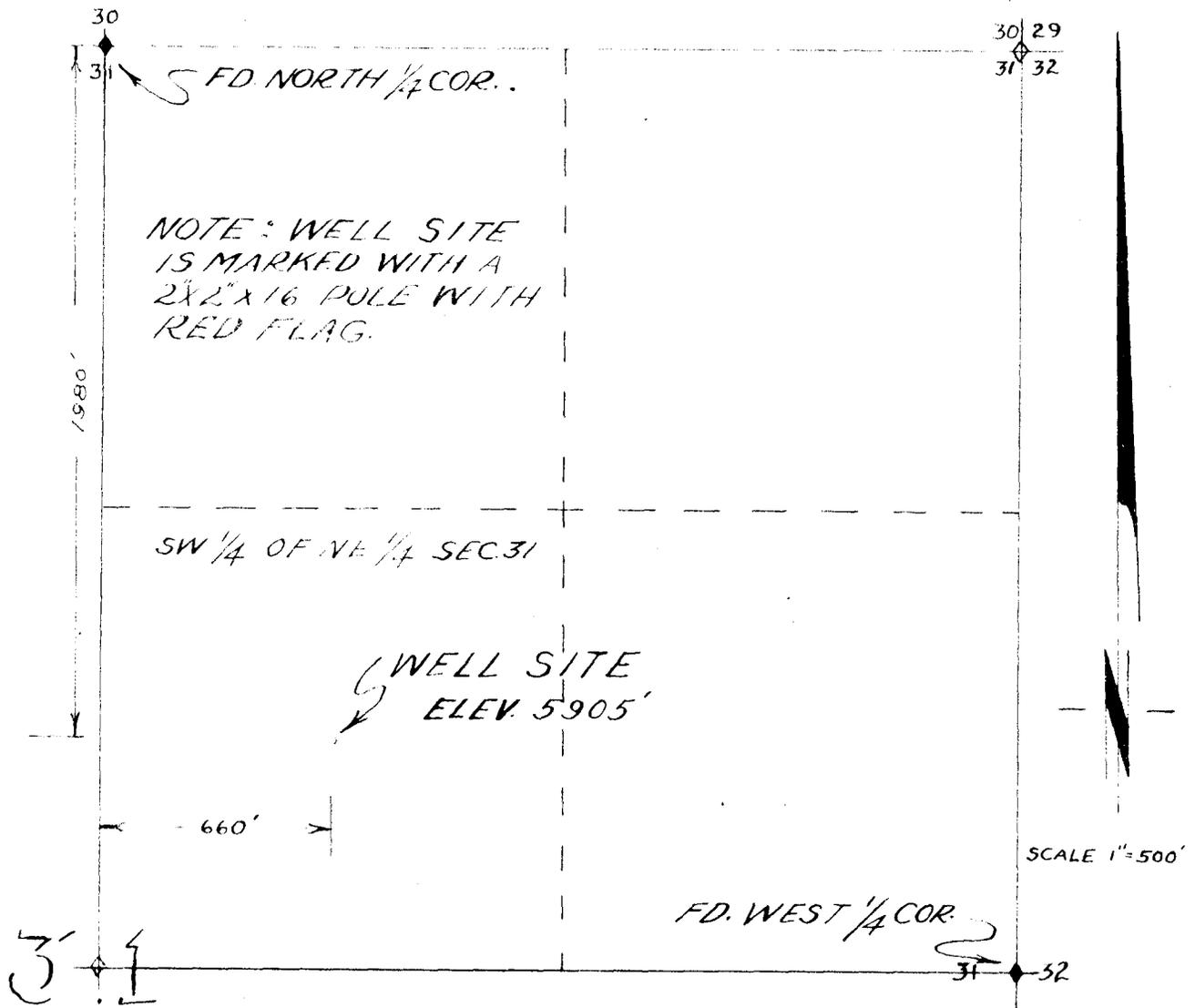
Title Engineer

# SURVEY FOR RICHFIELD OIL

IN SECTION 31, T37S, R26E, S.L.B.M.

SAN JUAN SURVEYING SERVICE  
MONTICELLO, UTAH

NOV. 21, 1956



*Frank S. Sherer*  
REG. LAND SURVEYOR NO. 1361



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake  
Lease No. 067364-A  
Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	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)

~~November~~ 23, 19 56

Square Creek  
Well No. 1 is located 1980 ft. from {N} line and 1980 ft. from {E} line of sec. 31

T4 S 26 E 31  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Parowan Basin Area San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5915 ft. (est.)

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. Drill adequate size hole to accommodate 13 3/8" casing to 375'±. Run and cement 13 3/8" 5# J-55 casing at 375'± with 400 sacks concrete cement mixed with 2% gel and treated with 2% calcium chloride. Install and test LDF with 700'.
2. Drill 9" hole to approx. 2500', if required a 2500' of 5/8" protection string will be run to control potential water flow and/or lost circulation. Continue drilling full gauge hole and coring 6 1/2" hole as directed to 10' (cont. 5700').
3. In the event of commercial production a supplemental program will be submitted.
4. The well is to be drilled by a rotary type drilling rig. Surface formation at this location is the Dakota, and objective formation is the Parowan Salt.

CONDITIONS OF APPROVAL ATTACHED

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 631

Milligan, Montana.

By Robert E. Carlson

Title Engineer

FEDERAL LAND

CONDITIONS OF APPROVAL

1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
2. A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered.
3. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U. S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals as coal, potash, and salt.
4. Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of U. S. Geological Survey, P. O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed, total depth as of the end of the month, and if shut down the reason therefor.
5. Two copies of the log of this well on Form 9-330, or other acceptable form and when available two copies of all electrical logs, directional, diameter and temperature surveys of the hole shall be filed with the district engineer within 15 days after such information is received by operator on completion of the well whichever is earlier.
6. The District Engineer, ~~D. F. Russell, 452 Federal Bldg., Salt Lake City, Utah~~ shall be notified on Form 9-331a in triplicate giving thereon ~~all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date of proposed work.~~

433

5CC 0673047A

APR 1 - 1956  
Approved:   
District Engineer

December 10, 1956

Richfield Oil Corporation  
P. O. Box 631  
Billings, Montana

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Squaw Creek 1, which is to be located 1980 feet from the north line and 1980 feet from the east line of Section 31, Township 37 South, Range 26 East, S1EM, San Juan County.

Verbal approval to drill said well was granted on November 30, 1956.

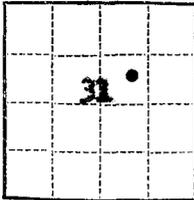
Please be advised that in the future the notice of intention to drill must be filed with this office at least two days before you desire to spud-in.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
SECRETARY

CBF:en



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake  
Lease No. 067364 - A  
Unit \_\_\_\_\_

*W. C. K.*  
*12/19/56*

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.....	<b>XXX</b>
NOTICE OF INTENTION TO ABANDON WELL.....		

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

December 11, 1956

Squaw Creek  
Well No. 1 is located 1990 ft. from [N] line and 1990 ft. from [E] line of sec. 31  
C 2 1/2 NE 1/4 Sec. 31 37S 26E S12M  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Paradox Basin Area San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~11111/1111~~ <sup>KB</sup> above sea level is 5915 ft. (est.)

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. This well was spudded in 7:30 AM 12-3-56 and drilled 12 1/2" to 402'. Opened 12 1/2" to 17 1/2" to 400'. Ran and cemented 386' 13 3/8" 54.5# J-55 male 3rd thd ST&C casing at 400' KB with 350 sacks Southwest Portland cement mixed with 2% gel and treated with 2% calcium chloride. Cement in place 9:00 am 12-7-56. Good cement returns, held pressure on casing 12 hours prior to landing. Installed and tested BOP with 750# for 30 mins OK.

2. Drilling ahead in 9" hole at 905'.

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 631  
Billings, Montana.  
By R. F. [Signature]  
Title Engineer

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake  
LEASE NUMBER 067361-2  
UNIT \_\_\_\_\_

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State UTAH County SAN JUAN Field PARIAOX BASIN AREA

The following is a correct report of operations and production (including drilling and producing wells) for the month of DECEMBER, 19 56

Agent's address P.O. Box 631 Company Richfield Oil Corporation  
Billings, Montana. Signed R. L. Murray

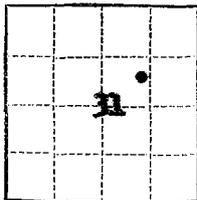
Phone 98629 Agent's title Engineer

SEC. AND ¼ OF ¼	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)
<b>Sec. 31 SW NE</b>	<b>37S</b>	<b>26E</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Drilling 9" at 5188'</b>

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.



(SUBMIT IN TRIPLICATES)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City Utah

Lease No. 067364-4

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.....	
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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.....	<b>XX</b>
NOTICE OF INTENTION TO ABANDON WELL.....		

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

January 17, 1957

Squaw Creek #1:

Well No. \_\_\_\_\_ is located 1930 ft. from [N] line and 1990 ft. from [E] line of sec. 31

C SW 1/4 NE 1/4 Sec. 31 37S 26E S12W

(1/4 Sec. and Sec. No.)

(Twp.)

(Range)

(Meridian)

Paradox Basin Area

San Juan

N.M.

(Field)

(County or Subdivision)

(State or Territory)

**KB**

The elevation of the device ~~11111~~ above sea level is 5915 ft. (Corrected KB)

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)

Core #1 5363-5413': Rec 50'; 50' limy shale and cherty lime MCSOF (Hermosa).

Core #2 5414-5464': Rec 50'; 50' Limy shale and shaley lime, MCSOF.

Core #3 5465-5515': Rec 49'; 49' Shaley lime MCSOF.

Core #4 5725-5775': Rec 50'; 14' Limestone, 17' shale, 19' Limestone, MCSOF (Hermosa).

Core #5 5900-5924': Rec 24'; 21' Limestone buff dark brown-black, crystalline, hard lite, scattered fractures, fossiliferous, MCSOF; 2' Limestone grading to limy shale; 1' Limestone black, hard.

Core #6 5924-5954': Rec 30'; 17' Limestone and shale interbedded, dark brown MCSOF; 3' Limestone, buff brown, vertical fractures, oolitic porosity, good cut, stain, odor; 19' Limestone, brown, dense, tight, MCSOF. (Paradox).

DOT #1 5918-54': dual 5 1/2" B.T. packers, 3/4" bean, opened tool 3:35 PM 1-16-57 for 1 1/2 hr to (1 hr flow 1/2 hr final S.L.) Had weak blow decreasing to dead in 36 mins. Rec'd 15' net ris drly sand. Charts OK. Hydrostatic 3255#, flow 0#, final S.L. 0#.

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

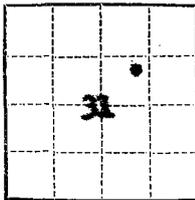
Address P.O. Box 631

Billings, Montana.

By R.L. M. [Signature]

Title Engineer

(SUBMIT IN TRIPLICATE)



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office \_\_\_\_\_  
Lease No. 067361-A  
Unit \_\_\_\_\_

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)

February 4, 1957

Squaw Creek  
Well No. 1 is located 1980 ft. from N line and 1980 ft. from E line of sec. 31

C. SW $\frac{1}{4}$  NE $\frac{1}{4}$  Sec. 31 37S 26E S12W  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Paradox Basin Area San Juan Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~NA/NA/NA~~ <sup>KB</sup> above sea level is 5915 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)

Core #7 5954-57' Rec 3': 3' Limestone, brown, dense, tight NCSOF.  
Core #8 5957-82' Rec. 25': 10' Limestone, brown, tight, NCSOF; 13' Limestone, brown-buff, dense with scattered P&P, slight oil stain, good odor, fair fluorescence; 2' Limestone, brown-buff, dense, tight, NCSOF.  
DST #2 5961-82': Dual 5 $\frac{1}{2}$ " BT packers, 3/4" bean. Opened tool 12th 7AM 1-19-57 for 2 hour test (1 $\frac{1}{2}$  hr flow, 1/2 hr final shut in). Had weak blow decreasing to very weak. Recovered 75' net rise drilling fluid no shows. Charts OK Hydrostatic 3150#, flow 0-50# final shut in 650#.  
Core #9 5982-6007': Rec 25': 3' dolomitic limestone, brown-brownish black, fair P&P, NCSOF; 22' Limestone, grey-buff, fine grained, tight, NCSOF.  
Core #10 6007-32': Rec 15': 15' limestone, buff, dense, tight, with scattered faint H2S odor, NCSOF.  
Core #11 6032-57': Rec 27': (2' pickup Core #10) 16' limy shale, black, micaceous, hard; 5' shaley grey, dense, calcareous; 6' limy shale, grey, highly calcareous, laminated, 0° dips, NCSOF. Continued on 2nd sheet

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 631

Billings, Montana.

By [Signature]

Title Engineer

Squaw Creek #1 Continued:

Core #12 6057-82': Rec, 25': 4' Limestone, buff, tight, NCSOF; 22' shale, black and brown, hard, tight.

Core #13 6082-6132': Rec 50': 3' Limsy shale; 7' dolomitic limestone, tight NCSOF; 2' shaley limestone; 25' anhydrite with thin interbedded streaks of dolomite, spotty porosity and oil staining, fair odor and fluorescence; 8' dolomite, scattered porosity and oil staining except middle 3'; 5' dolomite and shale, black, hard.

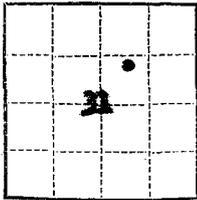
DST #3 6079-6132': Dual 5 $\frac{1}{2}$ " BT packers, 3/4" been. Opened tool 3:30 PM 1-24-57 for 1 hour 3 min flow test. Had no blow for 30 mins, reset packers still no blow. Recovered net rise 90' drilling fluid. No oil shows. Charts OK. Hydrostatic 3210#, flow 0-50#.

Core #14 6133-73': Rec 33': 17' Shale, black, highly carbonaceous; 2' limestone, buff, very fine grained, hard tight, NCSOF; 4' limestone as above 2', slight oil odor, very weak fluorescence, 4' limestone as above 2'; 1' shale, black; 2' anhydrite, limestone and shale interbedded; 3' anhydrite, hard, tight, NCSOF.

Core #15 6173-6216': Rec. 44' (1' pickup) 3' anhydrite; 3' shale; 4' limestone, tight, 7' shale; 4' limestone, tight; 3' anhydrite; 4' dolomite, tight; 4' anhydrite, massive, tight; 7' dolomite, brown-buff, upper 3' slight oil odor and fluorescence, looks wet; 2' limestone, tight, slightly wet; 1' dolomitic shale; 2' limestone tight.

Core #16 6221-71': Rec 50': 24' shale; 3' limestone, tight, NCSOF; 2' dolomite, fractured with scattered oil staining, 6' anhydrite NCSOF; 6' dolomite as above 2'; 1' shale; 8' anhydrite NCSOF.

Core #17 6271-83': No recovery.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City Utah

Lease No. 067361-a

Unit \_\_\_\_\_

*Handwritten:*  
2-18-57

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.....
NOTICE OF INTENTION TO ABANDON WELL.....	

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

February 5, 1957

Square Creek  
Well No. 1 is located 1980 ft. from [N] line and 1980 ft. from [E] line of sec. 31

0 S 1/4 NE 1/4 Sec. 31      37E      26E      T12N  
(1/4 Sec. and Sec. No.)      (Twp.)      (Range)      (Meridian)

Paradox Basin Area      San Juan      Utah  
(Field)      (County or Subdivision)      (State or Territory)

The elevation of the ~~well~~ above sea level is 5915 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 drilled and cored to a total depth of 6283'. No oil or gas shows of commercial quantities were encountered. We propose to abandon this well as follows:

1. Plug above 5900' with 28 sacks cement.
2. Plug above 4790' with 23 sacks cement.
3. Plug above 2705' with 50 sacks cement.
4. Plug above 425' with 50 sacks cement, (across 13 3/8" casing shoe).
5. Place 10' surface plug in 13 3/8" casing. Erect U.S.G.S. regulation abandonment marker.
6. Remove all surface lines and equipment and abandon hole and location.

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

Company Highfield Oil Corporation

Address P.O. Box 631

Billings, Montana

By R. F. [Signature]

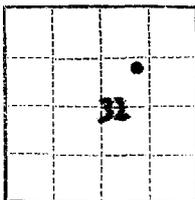
Title Engineer

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City, Utah

Lease No. 067364-A

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 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)

February 11, 1957

Squaw Creek

Well No. 1 is located 1980 ft. from N line and 1040 ft. from E line of sec. 31

C. 5th NE 1/4 Sec. 31 (1/4 Sec. and Sec. No.) 37S (Twp.) 26E (Range) S10W (Meridian)  
Paradise Basin Area (Field) San Juan County (County or Subdivision) Utah (State or Territory)

The elevation of the ~~4477/1997~~ <sup>KB</sup> above sea level is 5375 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 Russell-Sweet)

Present condition of hole: 6285' TD. 306' 13 3/8" 54.57 4-55 3/4" 3rd 3/4" cemented at 400' KB.

This well abandoned as follows:

1. Plugged 5900-5830' with 28 sacks Ideal constn cement in place 9:15 AM 2-2-57
  2. Plugged 4790-4727' with 28 sacks Ideal constn cement in place 10:10 PM
  3. Plugged 2704-2579' with 50 sacks Ideal constn cement in place 11:55 PM
  4. Plugged 425-350' with 50 sacks Ideal constn cement in place 1:30 AM 2-3-57
  5. Placed 10' surface plug and erected regulation U.S.G.S. abandonment marker
- Hole abandoned Feb. 3, 1957.

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

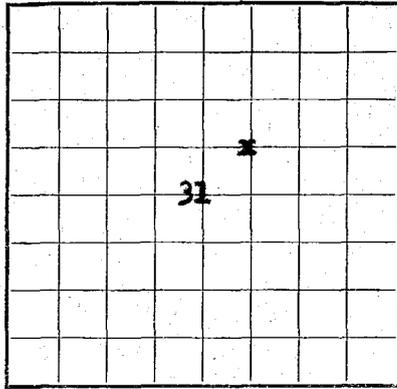
Address P.O. Box 631

Billings, Montana.

By Robert E. Carlson

Title Engineer

U. S. LAND OFFICE Salt Lake City  
SERIAL NUMBER 067364-A  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Richfield Oil Corporation Address P.O. Box 631, Billings, Montana  
Lessor or Tract Squaw Creek Field Paradox Basin State Utah  
Well No. 1 Sec. 31 T. 37S R. 26E Meridian Salt Lake County San Juan  
Location 1980 ft.  $\left\{ \begin{matrix} N \\ S \end{matrix} \right\}$  of N Line and 660 ft.  $\left\{ \begin{matrix} E \\ W \end{matrix} \right\}$  of N $\frac{1}{2}$  Corner of Sec. 31 Elevation 5915' 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.

Date March 19, 1957 Signed Rex M. [Signature] Title Engineer

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

Commenced drilling December 3, 19 57 Finished drilling January 31, 19 57

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-	
13 3/8	54.5	8rd	J-55	385	Guide				Surface casing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	400'	350	displacing	8.7#/gal	56 bbls

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

**MUDDING AND CEMENTING RECORD**

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	400'	350	displacing	8.7#/gal	56 bbls

FOLD MARK

**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 \_\_\_\_\_ feet to 0 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**DATES**

Abandoned February 3, 1957 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**

D. D. Wedgeworth \_\_\_\_\_, Driller E. G. Morris \_\_\_\_\_, Driller  
H. V. Harlan \_\_\_\_\_, Driller J. Starr \_\_\_\_\_, Driller

**FORMATION RECORD**

FROM—	TO—	TOTAL FEET	FORMATION
Surface	1005	1005	Dakota sandstone-sandstone with scattered shale streaks, with white-gray-maroon fine grained calcareous cemented
1005	1090	85	Entrada sandstone-sandstone-siltstone, limestone orange, fine grained calcareous
1090	1265	175	Carmel-sandstone with interbedded shale, vari-colored fine grained calcareous sandstone
1265	1595	330	Havajo-sandstone orange, fine-medium grained
1595	1720	125	Keyenta-sandstone, pink fine-medium grained
1720	1960	240	Wingate-sandstone, orange, fine grained friable
1960	2750	790	Chinle-sandstone with interbedded shale, orange-maroon fine grained calcareous
2750	2855	105	Shinarump-sandstone, grey, medium grained
2855	2900	45	Moenkopi-shale, reddish brown, waxy
2900	2930	30	Cutler-shale, reddish brown-black, waxy
2930	2980	50	Dechelly-sandstone, white, coarse-grained congl.
2980	4820	1840	Organ Rock-shale and siltstone, vari-colored calcareous
4820	5840	1020	Hermosa
5363	5413	50	Core #1: Rec. 50': Limsy shale and cherty lime NCSOF
5414	5464	50	Core #2: Rec. 50': shaley lime and limestone NCSOF
5464	5514	50	Core #3: Rec. 49': Limestone, shale and shaley lime NCSOF
5725	5775	50	Core #4: Rec. 50': 14' limestone, 17' shale, 19' limestone, NCSOF.

HISTORY OF OIL OR GAS WELL

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.

PRESENT CONDITION OF HOLE:

Total depth 6283' Plugged 5900-5830'; 4790-4722'; 2704-2579'; 425-350'; 24-14'.

Casing record:

3852 13 3/8" 54.5# J-55 Brd ST&C Seamless casing cemented at 400' KB.

Erected regulation U.S.G.S. marker. HOLE ABANDONED FEBRUARY 3, 1957.

DST #1 5918-5954': Dual 5 1/2" B.T. packers, 3/4" bean. Opened tool 3:35 PM 1-16-57 for 1 1/2 hr test (1 hr flow 1/2 hr final S.I.) Had weak blow decreasing to dead in 36 mins. Recovered 15' net rise drilling fluid. Charts OK. Hydrostatic 3275#, flow 30#, final S.I. 30#

DST #2 5964-5982': Dual 5 1/2" B.T. packers, 3/4" bean. Opened tool 12:47 AM 1-19-57 for 2 hr test (1 1/2 hr flow, 1/2 hr final S.I.). Had weak blow decreasing to very weak. Recovered 75' net rise drilling fluid. Charts OK. Hydrostatic 3190#, flow 40#, final S.I. 682#

DST #3 6079-6132': Dual 5 1/2" B.T. packers, 3/4" bean. Opened tool 3:30 PM 1-24-57 for 1 hr flow test. Had no blow for 30 mins, reset packers, still no blow. Recovered 90' net rise drilling fluid. Charts OK. Hydrostatic 3252#, flow 50-75#

DST #4 6243-6271': Dual 5 1/2" B.T. packers, 3/4" bean. Opened tool 5:00 AM 1-31-57 for 1 3/4 hr test (1 hr flow, 3/4 hr final S.I.). Had weak blow decreasing to dead in 55 mins. Recovered 35' net rise drilling fluid. Charts OK. Hydrostatic 3315#, flow 75-80# final S.I. 145#

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
5840	6269	429	Paradox facies
5900	5924	24	Core #5 Rec 24': 21' limestone, buff-black, crystalline, hard, tite, NCSOF; 2' limestone, limy shale; 1' limestone, black, hard
5924	5954	30	Core #6 Rec 30': 17' interbedded limestone and shale; 3' limestone, buff brown, oolitic porosity, good cut, stain, odor; 10' limestone, brown dense, tite, NCSOF.
5954	5957	3	Core #7 Rec 3': 3' limestone, brown, dense, NCSOF
5957	5982	25'	Core #8 Rec 25': 10' limestone, as above 3'; 13' limestone, brown-buff, with scattered P & P, slight oil stain, good odor, fair fluorescence; 2' limestone as above 10'
5982	6007	25	Core #9 Rec 25': 3' dolomitic limestone, brown, black, fair P&P, NCSOF; 22' limestone, grey-buff fine grained, tite, NCSOF
6007	6082	25	Core #10 Rec 15': 15' limestone as above with scattered faint H2S odor NCSOF
6032	6057	25	Core #11 Rec 27' (2' pickup) 16' limy shale, black, micaceous; 5' shale, grey, calcareous; 6' limy shale, grey, calcareous, 0° dips NCSOF
6057	6082	25	Core #12 Rec 25': 4' limestone, buff, tite, NCSOF; 22' shale, black and brown, hard, tite.
6082	6132	50	Core #13 Rec 50': 3' limy shale; 7' dolomitic limestone, tite, NCSOF; 2' shaly limestone; 25' anhydrite with thin interbedded streaks of dolomite, spotty porosity, oil staining, fair odor and fluorescence; 8' dolomite, scattered porosity and oil staining except middle 3'; 5' dolomite and shale, black hard, NCSOF
6133	6173	40	Core #14 Rec 33': 17' shale, black, carbonaceous 2' limestone, buff, fine grained, hard, tite NCSOF; 4' limestone as above 2'; slight oil odor 4' limestone as above 2'; 1' shale, black; 2' anhydrite, limestone and shale; 3' anhydrite, hard tite NCSOF
6173	6216	43	Core #15 Rec. 44' (1' pickup) 10' anhydrite, 10' shale; 12' limestone, tite, looks wet; 11' dolomite, brown-buff, upper 3' slight oil odor; 1' dolomitic shale
6221	6271	50	Core #16 Rec 50': 25' shale; 3' limestone, tite, NCSOF; 8' dolomite, fractured with scattered oil staining; 14' anhydrite, NCSOF
6271	6283	12	Core #17 Rec. 0' (salt)
6271	6283 TD	12	Paradox salt.