

March 30, 1966 Lease Terminated  
This well PWA State Indemnity. S.O.

**FILE NOTATIONS**

Entered in N.I.D. File	_____	Checked by Chief	_____
Entered On S.K. Sheet	_____	Copy N.I.D. to Field Office	_____
Location Map Placed	_____	Approval Letter	_____
Card Indexed	_____	Disapproval Letter	_____
P.W.R. for State or Fee Land	_____		

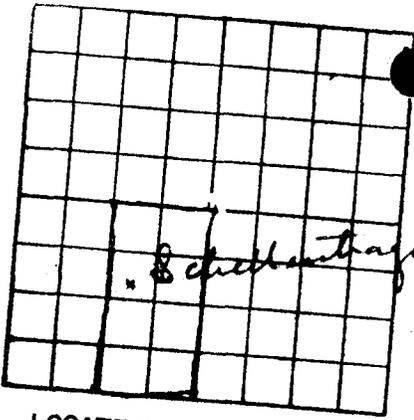
**COMPLETION DATA:**

Date Well Completed March 66 Location Inspected \_\_\_\_\_  
OW..... WW..... TA..... Bond released \_\_\_\_\_  
GW..... OS..... PA  State of Fee Land \_\_\_\_\_

**LOGS FILED**

Driller's Log \_\_\_\_\_  
Electric Logs (No. ) \_\_\_\_\_  
E..... I..... E-I..... GR..... GR-N..... Micro.....  
Lat..... MI-L..... Sonic..... Others.....

Lup  
9-18-92



DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Y. S. Oil & Ref. Corp. Address 120 E. Avenue 26, Los Angeles  
 Lessor or Tract Schubert #2 Field Virgin State Utah  
 Well No. 1418 N/5 Sec. 11 T. 2 R. 1 Meridian S. 13 County Washington  
 Location 24 ft. N. of E. Line and 22 ft. W. of W. Line of NE 1/4 SW 1/4 Elevation \_\_\_\_\_  
 (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 Oct 3rd - 1927

Signed T. S. Sanderberg  
 Title Superintendent

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

Commenced drilling May 19, 1927 Finished drilling July 7, 1927

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 691 to 697  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from 0 to 0  
 No. 2, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 3, 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	

MUDDING AND CEMENTING RECORD

Size casing	Water set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

PLUGS AND ADAPTERS

Heaving plug - Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_  
 Adapters - Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

Size	Shell used	Explosive used

FOLD MARK

Heaving plug—Material  
Adapters—Material

**PLUGS AND ADAPTERS**

Length \_\_\_\_\_  
Size \_\_\_\_\_  
Depth set \_\_\_\_\_

**SHOOTING RECORD**

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		4				

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet,  
Cable tools were used from start feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**TOOLS USED**

**DATES**

The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ % sediment.  
If gas well, cu. ft. per 24 hours \_\_\_\_\_  
Rock pressure, lbs. per sq. in. \_\_\_\_\_

Put to producing \_\_\_\_\_, 1927  
Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
Gravity, °Bé. \_\_\_\_\_

A. B. R. ..., Driller  
Stanton ..., Driller

**EMPLOYEES**

**FORMATION RECORD**

FROM	TO	TOTAL FEET
<u>start</u>	<u>40</u>	40
40	361	261
361	375	74
375	388	13
388	678	287
678	691	16
691	697	6
		<u>697</u>

**FORMATION**  
red shale - low ...  
slate colored shale  
" "  
" "  
Virgin Limestone  
red shale  
grey shale  
sandy oil bearing shale

Copy

"Lab No. 27-134

Sandy shale in Moenkopi oil, Virgin, Utah.

Zion Oil & Refining Corp.

Well #2, Sec. 13- 41 S. - 12 W. - SL

Depth:

to top of sand - - - - 691 feet  
" bottom of sand- - - 697 feet.

Analysis E. A. Swedenborg, U.S.G.S.,

Midwest, Wyo., Nov. 19, 1927.

Gravity - - - - - 34.9 API

Centrifuge:

Water - - - - - None

Sediment (sand etc.) - 1%.

1st drop - - - - - 116°F

5% over - - - - - 190°F.

Distillation air:-

Up to 392°F - - - - - 28.5% - - 60.1

392° - 482°F -- - - - - 17.75% - - 42.2

482°F -527°F - - - - - 6.0% - - - - -

Base - - - - - Intermediate."

Copy

"DEPARTMENT OF THE INTERIOR  
Bureau of Mines (Now U.S.G.S.)

Lab. No. 27-132.

INFORMATION TO BE FORWARDED WITH EACH SAMPLE OF CRUDE PETROLEUM

Please forward to the Director, Bureau of Mines (now U.S.G.S.), Washington, D.C., as many as possible of the following data, using this sheet. Write clearly.

Name of farm or lease: Permit S.L. - 031028

Section 13. Township 41S, Range 12W, Meridian, S.E.

County: Washington. State: Utah.

Name and address of owner: C.B. & C.L. Schallentrager,  
Long Beach, Cal. (Permittees).

Name and address of producing company: Zion Oil & Refining Corp.,  
Virgin, Utah.

Name of oil field: Virgin Field.

Sampled by: H. G. Barton. Date: 9-30-27.

Name of sand or zone from which oil is produced: Sandy shale in Moenkopi.

Depth to top of sand: 691', to bottom: 697'.

Number of ~~sample~~ wells represented by this sample: One.

If the sample represents one well only, please also furnish the following data:

Average daily production represented by this sample: 13 bbls.

Date of completion of well: 7/7/1927. Well No.: 2.

Average daily production when first completed: 13 bbls.

Average daily production of well this date: 13 bbls.

Estimated amount of water produced daily: None.

Method of production (flowing, pumping, air lift, etc.): Pumping.

Place where sample was obtained (sump hole, lead line, gas trap, etc.): Lead line.

Remarks: Location SWNESEW Sec. 13."

124  
M. J. ...  
...

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Serial Number 1070  
Lease or Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY

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

Following is a notice of intention to do work on land under permit described as follows:  
report of work done

Well No. 1410 N 1/4 Sec. 10, T. 20 N, R. 10 E, S. 13 W  
(State or Territory) Wyoming (County or Subdivision) Wheatland  
The well is located 2 ft. N of S line and 1/2 ft. E of W line of sec. 10  
The elevation of the drick floor above sea level is 5000 ft.

DETAILS OF PLAN 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.)

#2 was abandoned in May 1928 - stopped drilling @ 697' finally the bit was disconnected and slowly brown shale from 691' to 696'.  
Used 1/2" pipe to keep boulders from falling in. No water.

Approved March 6, 1928  
(Date)  
D. P. Wardwell  
Title Deputy Supervisor  
GEOLOGICAL SURVEY  
Address Casper, Wyoming

Company Granville & Ref. Co.  
By Granville & Ref. Co.  
Title Supervisor  
Address Wheatland, Wyo.

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Field Office Salt Lake  
Serial Number 081028  
Lease or Permit

# SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT RECORD OF SHOOTING.....
NOTICE OF INTENTION TO CHANGE PLANS.....	RECORD OF PERFORATING CASING.....
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF.....	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING.....
REPORT ON RESULT OF TEST OF WATER SHUT-OFF.....	NOTICE OF INTENTION TO ABANDON WELL.....
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF ABANDONMENT.....
NOTICE OF INTENTION TO SHOOT.....	SUPPLEMENTARY WELL HISTORY.....

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

Feb. 9, 1928

Following is a notice of intention to do work on land under permit described as follows:  
~~report of work done~~  
~~lease~~

Well No. 2 Utah Washington Virgin  
(State or Territory) (County or Subdivision) (Field)

NE SW 10 41 S. 12 W. S. L.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1410 N/S, 1103 W/E of SW 13.  
94 ft. N of S line and 224 ft. E of W line of sec. NE SW 13

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft.

### DETAILS OF PLAN 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.)

Log submitted at 697', total depth of well, dated Oct. 3, 1927.

Object <sup>of</sup> shooting to increase production, and to make a reservoir at bottom of well to gather and hold the oil, which will be pumped at intervals until well pumps off.

Shot to be placed at bottom, 691'-697', oil bearing formation. Expect to use 40% dynamite, not over 50 lb. at a shot, or 300 lbs. in all, shooting enough times to make a 20 bbl. reservoir at bottom of well.

Work to be done under supervision of Trevor Isenburg, Superintendent.

Production of well 7 bbl. oil a day, based on August, September and October, 1927 runs.

Approved February 14, 1928

Company Zion Oil and Refining Company

D. P. Wardwell  
D. P. WARDWELL

By [Signature]

Title Deputy Supervisor  
GEOLOGICAL SURVEY

Title [Signature]

Address Casper, Wyoming

Address Virgin, Utah

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U. S. Land Office  
Salt Lake City  
Serial Number 031028  
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	<input type="checkbox"/>	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	<input type="checkbox"/>	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	<input type="checkbox"/>	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	<input type="checkbox"/>	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	<input type="checkbox"/>	SUPPLEMENTARY WELL HISTORY

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

May 20, 1933, 19

Following is a ~~report of work done~~ notice of intention to do work on land under ~~lease~~ permit described as follows:

Utah Washington Virgin  
(State or Territory) (County or Subdivision) (Field)  
Well No. 2 SW 1/4 Sec. 13 41 S. 12 W. S. L. C.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1410 ft. N of S line and 1103 ft. W of E line of sec. SW 1/4 Sec. 13

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft.

DETAILS OF PLAN 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.)

Application to drill a well at the above described location according to the following plan is hereby made.

Drill 8" hole to 60' and land 6 1/2" casing at that depth to ease off loose boulders and saving formations.

Drill open hole to oil sand expected at approximately 700' and make test of same.

If water is encountered in hole below the 6 1/2" casing and above the oil sand a second string will be run, cemented if necessary, to shut off the water before drilling into the oil sand.

Approved ACCEPTED AS A MATTER OF RECORD MAY 22, 1933  
(Date)  
E. W. Henderson  
District Engineer  
GEOLOGICAL SURVEY  
308 Federal Building  
Salt Lake City, Utah

Company Crystal Oil Company  
By R. A. Mc Mullin  
Title Secretary  
426 Metropolitan Bldg.  
Address Salt Lake City, Utah

NOTE.—Reports on this form to be submitted in duplicate to the Supervisor for approval.

Washington County  
Virgin

Zion Oil & Refining Corp'n Well #2,  
SWNE SW Sec. 13-41S-12W (S.L. 031028)

Completed as an oil well July 7, 1927, in a sandy shale 691-697'.  
T.D. 697'. I.P. 30 bbls. Average production 27 bbls. All in Moenkopi  
formation. (Visited 9-29-37).

15-41S-12W Ref. No. 22, Crystal Oil Co., Well #2 (S.L. 031028) (T.L. 1000)  
SW NE SW  
March 1933 STATUS: POW to OSD (Visited 3-29-33) (VIRGIN - Washington County)

13-41S-12W. Ref. No. 22, Crystal Oil Co. Well No. 2 (S. L. 031028) SW NE SW

STATUS: POW. (Visited 1-23-34)

REMARKS: Cavings bailed from hole, and well put to producing in January.  
After making production test, operator plans to treat producing  
formation with acid.

13-41S-12W. Ref. No. 22, Crystal Oil Co. Well No. 2 (S. L. 031028)  
SW NE SW

STATUS: POW.

REMARKS: Operator has not submitted report of results ob-  
tained in treating this well with acid. Informa-  
tion will be given in next month's report if avail-  
able.

\*Crystal Oil Co., Well #2.  
SWNE SW Sec. 13-41S-12W (S.L. 031028)

SEP 1937

†Formerly Zion Oil & Refining Corp.

This well was completed in July 1927 with an initial production of 30  
bbls. and was shut down in July 1929. The well was later recon-  
ditioned and is to be put on the pump. A contract has been made with Mr. C. W.  
Daugherty to recondition the present wells on the permit and to drill 3  
or 4 new wells. (Visited and Mr. Daugherty 9-15-31)

STATUS: OSI

SEP 1937

COPY

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Salt Lake  
U.S. Land Office 031028

Serial Number 031028

Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS		RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	X	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

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

January 22, 1934

Following is a {notice of intention to do work / report of work done} on land under {permit / lease} described as follows:

Utah (State or Territory) Washington (County or Subdivision) Virgin (Field)  
Well No. 2 NE SW 13 41S 12W S.L.M. (Meridian)  
(1/4 Sec. and Sec. No.) (Twp.) (Range)

The well is located 1410 ft. ~~1410~~ of N. line and 1103 ft. ~~1103~~ of E. line of sec. SW 1/4 Sec. 13.

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft.

DETAILS OF PLAN 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.)

Prepare to deepen hole 25 ft. and use Hydrochloric Acid in hole to cut out the lime in the oil bearing formation. Expect to use from 50 to 100 Gallons of acid.

APPROVED subject to submission within 30 days after completion of acid treatment a report in triplicate on Form 9-331a giving complete details as to amount of acid used, method of placing acid in hole and displacement, time allowed for reaction, concentration of acid used, and results obtained.

SALT LAKE CITY, UTAH  
MINERAL LEASING DIV.

Approved (SEE ABOVE) Date, 8, 1934.

E. W. Henderson  
District Engineer  
306 Federal Building  
Salt Lake City, Utah

Company CRYSTAL OIL COMPANY  
By R. A. McMillen  
Title Sec.

Address \_\_\_\_\_

NOTE.—Reports on this form to be submitted in triplicate to the Supervisor for approval.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

U.S. Land Office  
Salt Lake City  
Serial Number 031088  
Lease or Permit Permit

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS		RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	X	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

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

June 13th

19 37

Following is a notice of intention to do work on land under permit described as follows:

Utah Washington County Virgin  
(State or Territory) (County or Subdivision) (Field)  
Well No. Crystal No. 2 N. 13 41S 12W S. L. M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1410 N. ft. of W line and 1103 ft. of E line of sec 5 13  
The elevation of the derrick floor above sea level is \_\_\_\_\_ ft.

DETAILS OF PLAN 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.)

Intend to clean out well by bailing to bottom at 690'. Test for water shut-off on surface pipe and if feasible deepen well approximately ten feet from its present depth in order to secure formation data necessary for chemical treatment and complete.

Note: Approved with understanding report in triplicate on Form 9-331A will be submitted within 15 days, after completion of proposed work, giving details of work done and results obtained.

Approved June 13, 1937  
(Date)

*[Signature]*

Title District Engineer  
306 Federal Bldg. GEOLOGICAL SURVEY

Address Salt Lake City, Utah

Company Utah Dixie Oil Corporation

By *[Signature]*

Title President  
1109 Park Central Bldg.

Address Los Angeles, California

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Utah

Serial Number 031028

Lease or Permit Permit


SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT RECORD OF SHOOTING	
NOTICE OF INTENTION TO CHANGE PLANS		RECORD OF PERFORATING CASING	
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
REPORT ON RESULT OF TEST OF WATER SHUT-OFF		NOTICE OF INTENTION TO ABANDON WELL	X
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO SHOOT		SUPPLEMENTARY WELL HISTORY	

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

1940

Feb. 6, 1940

Following is a notice of intention to do work on land under permit described as follows:  
~~report of work done~~

Utah Washington Virgin  
(State or Territory) (County or Subdivision) (Field)

Well No. 2 NE SW 13 41S 12W S.L.M  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1410 ft. N of S line and 1103 ft. W of E line of sec. 13

The elevation of the derrick floor above sea level is 3800 ft. /Approx.

DETAILS OF PLAN 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.)

Depth 697'. This was a very good well, has no water and was cleaned to the bottom. Has no refuse in it. To be closed with a cement plug of 5 sacks of cement across the face of the oil sand, filling remainder of hole to surface with heavy mud fluid. Cement marker at top of well.

Approved (SEE INDEX ATTACHED) Feb. 10, 1940 Company CRYSTAL OIL COMPANY,

*E. W. Henderson*

By R. A. Miller

Title District Engineer  
GEOLOGICAL SURVEY

Title Sec.

Address 306 Federal Building

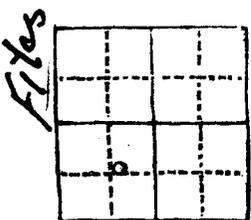
Address

NOTE.—Reports on this form should be submitted to the Supervisor for approval.

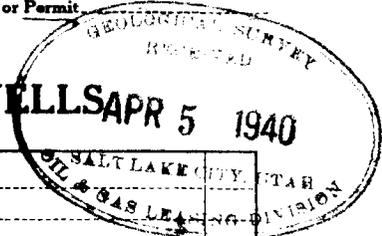
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Serial Number 031028

Lease or Permit



SUNDRY NOTICES AND REPORTS ON WELLS **APR 5 1940**



NOTICE OF INTENTION TO DRILL	SUBSEQUENT RECORD OF SHOOTING
NOTICE OF INTENTION TO CHANGE PLANS	RECORD OF PERFORATING CASING
NOTICE OF DATE FOR TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING
REPORT ON RESULT OF TEST OF WATER SHUT-OFF	NOTICE OF INTENTION TO ABANDON WELL
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY

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

April 3, 1940

Following is a {notice of intention to do work / report of work done} on land under {permit / lease} described as follows:

Utah Washington County Virgin  
(State or Territory) (County or Subdivision) (Field)

Well No. 2 NE S.W. Sec. 13 41S 12 W S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 1410 ft. N of S line and 1103 ft. W of E line of ~~sec. 13~~ sec. 13

The elevation of the derrick floor above sea level is 2800 ft.

DETAILS OF PLAN 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.)

Cleaned well out to bottom. Filled well up to bottom of oil sand. Cemented with five sacks of oil well cement over face of oil sand. Let set to test for shut off. Have complete shut off. Filled well with drilling mud and cemented the marker in the casing. Cleaned up location. No casing pulled from well.  
Work completed March 28, 1940 by Marley H. Jones  
Virgin, Utah

Approved APR 4 1940  
[Signature]  
E. H. Anderson  
Title District Engineer  
GEOLOGICAL SURVEY  
Address 303 Federal Building  
Salt Lake City, Utah

Company Crystal Oil Company,  
By R. A. Miller  
Title Sec.  
Address 426 Metropolitan Bldg.  
Los Angeles, Cal.

VIRGIN - Washington County

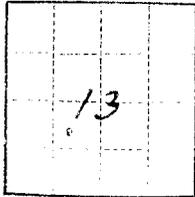
~~12-412-12W~~ SW NE 1/4 SW 1/4, Crystal Oil Company Well No. 2 (S. L. 031022);

Ref. No. 22. (APRIL, 1940)

✓ STATUS: P&A - T.D. 697'. (S.R.A., 4-6-40)

REMARKS: Issuance of exchange lease has been withheld by the General Land Office pending submission of a \$5,000 general lease bond or proper plugging and abandonment of this well. The permittee elected to abandon the well rather than post the bond. Plugging and abandonment work was completed March 22, 1940, and subsequent report of abandonment approved April 6, 1940.



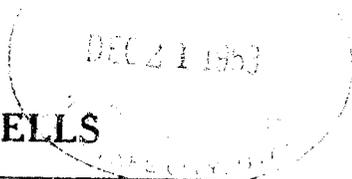


(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Lead Office S. L. C.  
Lease No. U-07679  
Unit

ORIGINAL FORWARDED TO CASPER



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	
	<b>Reopen &amp; clean out to 697</b> <input checked="" type="checkbox"/>

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

Well No. 2 is located <sup>1410</sup>~~1420~~<sup>1520</sup> ft. from N line and <sup>1103</sup>~~1620~~ ft. from E line of <sup>SW<sup>4</sup></sup> sec. 13

NE 1/4 of SW 1/4 Sec. 13 41S 12W S. L. M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Virgin Washington Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3793 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)

Reopen well and clean out to bottom, estimated at 697'  
Cement 4 - 1/4 O. D. casing at approximately 690'  
Acidize and test for production.

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

Company E. R. Bardwell

Address P. O. Box 37

Hurricane, Utah

By E. R. Bardwell

Approved DEC 22 1953  
(Orig. Sgd.) H. G. Stevens

Title Assignee

District Engineer

WELL NOW UNDER SERIAL UTAH 07679 -  
NOTICE TO REOPEN AND CLEAN OUT TO 6971  
BY E. R. HARDWELL APPROVED 12-22-53.

POOR COPY

(SUBMIT IN TRIPLICATE)

Land Office S.L.C.

Lease No. U-07679

Unit Lease

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
ORIGINAL FORWARDED TO OFFICE



SUNDRY NOTICES AND REPORTS ON WELLS

MAR 24 1954

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 REDRILLING OR REPAIR	X
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)

March 20, 19 54

Well No. 2 crystal is located 1410 ft. from N line and 1103 ft. from W line of SW 1/4 sec. 13

NE 1/4 of SW 1/4 Sec. 13 41S 12W S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Virgin Washington Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3793 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)

Reopened well, cleaned out to bottom (715). Put in 200 pounds caustic soda with 2 barrels water. Set for 3 hours. Started bailing, bailed shale, paraffine and oil. Put in 50 gallons 15% Hydrochloric acid. Let Acid set for 4 hours. Bailed acid out and well set over night. Next morning found 30 feet of 33 gravity oil in hole. Plan to reacidize well with 1500 gallons of 15% hydrochloric acid and put well on production as soon as market for oil is established. The above work was completed on January 28, 1954.

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

Company E. R. Bardwell

Address P. O. Box 37

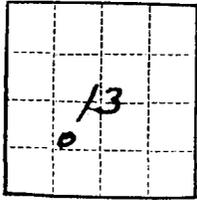
Hurricane, Utah

phone 4581

Approved 3-30-54  
[Signature]  
District Engineer

By E. R. Bardwell

Title Assignee

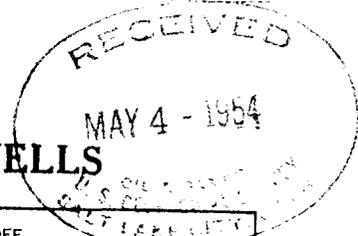


(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ORIGINAL FORWARDED TO OCSPEA

Land Office S.L.C.  
Lease No. U-07679  
Unit Lease



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 <b>X</b>
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)

May 1, 19 54

Well No. 2 crystal is located 1410 ft. from N line and 1103 ft. from E line of SW 1/4 sec. 13

NE 1/4 of SW 1/4 Sec 13 41S 12W S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Virgin Washington Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3793 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)

4/27/54 - Acidized well with 1700 gallons of 15% Hydrochloric acid. Acid induced through 2" tubing hung approximately 8 feet from bottom. No pressure on tubing at any time.

4/28/54 - Well put on pump. No fluid has reached surface to date of this report. Will probably have to pull tubing and check fluid in well.

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

Company E. R. Bardwell

Address P. O. Box 37

Hurricane, Utah

phone 4581

Approved 5-6-54  
[Signature]  
District Engineer

By E. R. Bardwell

Title Assignee

VIRGIN - Washington County  
13-415-12W SW NE SW, E. R. Bardwell #2 (Utah 07679), Ref. #22  
STATUS: OSD 715' Moenkopi (Bardwell 3-24-54)  
REMARKS: Old well P&A 697' 4-6-40 re-opened and cleaned  
out to 715' T.D. corrected. Cleaned sand face with  
200# caustic soda and then 50 gals. 15% HCL acid.  
Plan to re-acidize with 1500 gals.

VIRGIN - Washington County  
13-415-12W SW NE SW, E. R. Bardwell #2 Crystal (Utah 07679)  
Ref. #22  
STATUS: PCW 715' Moenkopi (Visited 5-23-54)  
REMARKS: Old well recompleted. Acidized on 4-17-54  
with 1700 gals. of 15% HCL. Started pumping oil  
intermittently during May at rate of 4 BOPD with very  
little water.

Copy E. N. P.

Form approved.  
Budget Bureau No. 42-R356.5.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE **Salt Lake**  
LEASE NUMBER **U-07679**  
UNIT **Lease**

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Washington** Field **Virgin**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **September**, 19**3**

Agent's address **914 Kearns Building** Company **HUROCO, INC.**  
**Salt Lake City, Utah 84101** Signed By [Signature]  
Phone **DA 8-0501** Agent's title **Operator** **Attorney**

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)
<b>NE SW</b>										
<b>Sec. 13</b>	<b>41S</b>	<b>12W</b>	<b>2</b>	<b>0</b>						<b>Shut in</b>
<b>SESW</b>										
<b>Sec. 13</b>	<b>41S</b>	<b>12W</b>	<b>24-13</b> <b>13</b>	<b>13</b> <b>0</b>						<b>Shut in</b>

*Crystal Oil Co.*

NOTE.—There were **No** runs or sales of oil; **No** 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-2356-5.

LAND OFFICE Salt Lake  
LEASE NUMBER U-07679  
UNIT Lease

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Virgin

The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1963.

Agent's address 914 Kearns Building Company HUROCO, INC.

Salt Lake City, Utah 84101 Signed By [Signature]

Phone DA 8-0501 Agent's title Operator Attorney

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										
Sec. 13	41S	12W	2	0						Shut in
SE SW										
Sec. 13	41S	12W	24-13	0						Shut in

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

no 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.

*Sept. 8. 4. 5*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-2354.5.

LAND OFFICE Salt Lake  
LEASE NUMBER U-07679  
UNIT Lease

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Virgin

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1963,

Agent's address 914 Keams Building Company HUROCO, INC.  
Salt Lake City, Utah Signed By [Signature]

Phone DA 800501 Agent's title Operator Attorney

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 Sec. 13	41S	12W	2	0						Shut in
SE SW Sec. 13	41S	12W	24-13	0						Shut in

DEC 3 1963

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold; No 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE **Salt Lake**  
LEASE NUMBER **U-07679**  
UNIT **Lease**

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Virginia

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 19 64.

Agent's address 914 Kearns Building Company HUROCO, INC.  
Salt Lake City, Utah Signed By [Signature]  
Phone DA 8-0501 Agent's title Operator Attorney

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE 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>NE SW</b> ✓ Sec. 13	41S	12W	2	0						<b>Shut in</b>
<b>SE SW</b> ✓ Sec. 13	41S	12W	24-13	0						<b>Shut in</b>

NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;

no 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.

*Big Hole  
2 copies  
SA*

Form approved.  
Budget Bureau No. 42-R256.5.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake  
LEASE NUMBER U-07679  
UNIT Lease

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Washington Field Virgin

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1964,

Agent's address 914 Kearns Building Company HUROCO, INC.  
Salt Lake City, Utah Signed By [Signature]  
Phone 328-0501 Agent's title Operator Attorney

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										
Sec. 13	41S	12W	2	0						Shut in.
SE SW										
Sec. 12	41S	12W	24-13	0						Shut in.

NOTE.—There were No runs or sales of oil; No M cu. ft. of gas sold;

no 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.

RECEIVED  
 Form 8-531a  
 (Feb. 1961)  
 BR. OF OIL & GAS OPERATIONS  
 MAR 14 1966  
 U.S. GEOLOGICAL SURVEY  
 SALT LAKE CITY UTAH

Budget Bureau No. 49-R328.4  
 Approval expires 12-31-60.

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

Land Office Salt Lake  
 Lease No. Utah 07679  
 Unit Lease

**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.....	<input checked="" type="checkbox"/>	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)

Well No. 2 is located unknown ft. from N line and unknown ft. from E line of sec. 13 1966  
NE SW 41S 12W Salt Lake  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
VIRGIN WASHINGTON UTAH  
(Field) (County or Subdivision) (State or Territory)

**Do Not have legal location**  
 The elevation of the derrick floor above sea level is \_\_\_\_\_ 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. Will reclaim well.
2. Install Electric bottom well heater.
3. Place well on pump

Approved MAR 14 1966

(ORIG. SGD.) R. A. SMITH

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

Company MIDWAY OIL & REFINING CO.

Address 9465 Wilshire Blvd.  
Beverly Hills, Calif.

By Ronald T. Colan  
 Title OPERATOR

ORIGINAL FORWARDED TO CASPER

ORIGINAL FORWARDED TO CASPER