

# FILE NOTATIONS

Entered in N I D File \_\_\_\_\_

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

Location Map Pinned \_\_\_\_\_

Card Indexed \_\_\_\_\_

I W R for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_

Copy N I D to Field Office \_\_\_\_\_

Approval Letter \_\_\_\_\_

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

## COMPLETION DATA:

Date Well Completed 1931

OW..... WW..... TA.....

GW..... OS..... PA

Location Inspected \_\_\_\_\_

Bond released \_\_\_\_\_

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.....

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

033841.

Permit.

GEOLOGICAL SURVEY

RECEIVED

MAR - 4 1929

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		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	

SALT LAKE CITY, UTAH  
MINERAL LEASING DIV.

GEOLOGICAL SURVEY

RECEIVED

MAR 1 1929

SALT LAKE CITY, UTAH  
MINERAL LEASING DIV.

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

March 1st, 1929.

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

UTAH

(State or Territory)

WASHINGTON

(County or Subdivision)

VIRGIN

(Field)

Well No. ONE

SW 1/4 SEC. 34

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

41 S.

(Twp.)

11 W.

(Range)

S. 1 N.

(Meridian)

The well is located 215 ft. <sup>N</sup>/<sub>X</sub> of S. line and 325 ft. <sup>E</sup>/<sub>X</sub> of W. line of ~~SW 1/4~~ S. 34.

The elevation of the derrick floor above sea level is 5800 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.)

This well will be started with a ten inch hole. 8 1/2" casing will be set to shut off top or surface water, if such be necessary, and if not the 3 1/2" will be set on top of the sand. In event top or surface water is discovered and the 8 1/2" casing is set, the next string to be set will be 3 1/2" on top of the producing sand. No cementing jobs will be made if natural shut-off points can be found, but the 6 1/2" casing, or the casing set for the oil string will be cemented upon top of the sand.

The objective of this test is a sand expected to be encountered at a depth of from 860 to 1000 feet, same being an extension of the producing sands encountered in the Virgin, Utah, fields. The location is approximately due north and just across the river from the village of Grafton, Utah. A road from the main highway to location has been constructed and operations will start upon approval hereof.

Approved (See attached) March 8, 1929

Company ROYAL OIL DEVELOPMENT CO.,

Title WM. H. STRANG  
DEPUTY SUPERVISOR  
GEOLOGICAL SURVEY

By *Christopher*  
Title Vice-President.

Address CASPER WYOMING

Address Arrowhead Hotel, Saint George, Utah

Surface

95

Red shale

351

Cylin

Redish

378

Cyilli Shale

408

Gr. Shale

423

Vir. lnt

Redish

614' 841'

713

Cy Sdy Shale

718

719

780

Bluish

800

Bluish

835

Sdy lime

871

Hd Cy. li

WASHINGTON  
Grafton

Royal Oil Dev. Co., Well #1,  
SWSWSE Sec.34-41S-11W (S.L.033841) SEP 1931

This well had been shut down at 907' since October 1929 and now has been satisfactorily plugged and abandoned by the bonding company. The complete string of 841' of 6 $\frac{1}{4}$ " casing was pulled, the hole filled with shale to 800' and 25 sacks of cement were put in with wooden plugs above and below. The rest of the hole was filled with mud and a regulation marker erected. The Subsequent Report of Abandonment was approved September 9, 1931.

(Visited 9-15-31)

STATUS: Changed from DSI to P&A

U.S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
SALT LAKE CITY

U.S. Land Office Salt Lake City  
Survey No. 33841  
Location Point 3000 ft. SURVEY

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

Utah Washington Grafton  
(State or Territory) (County or Subdivision) (Field)  
Well No. 1 SW 1/4 Sec. 34 41 S. 11 W. S. 1. E.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located 215 ft. N of E line and 325 ft. E of W line of sec. SW 1/4 Sec. 34

The elevation of the derrick floor above sea level is 3800 ft. (app.)

DETAILS OF PLAN OF WORK

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

1. Clean out hole to bottom, fill hole with shale mud fluid, free of foreign material and weighing not less than 10 lbs. per gallon, to approximately 820 feet, start 6 1/2" casing set at 841' and pull until bottom of casing is about 700 feet, fill hole with mud fluid as specified above to 800 feet. At this depth drive a plug of lead wool or oakum, burnt wire line and soft rope, sufficient to shut off sulphur water at 809 feet.
2. If casing cannot be pulled from 841' shoot, cut or rip casing beginning at bottom joint until casing is free. Casing from 800' to 820' must be thoroughly destroyed before work proceeds at a lesser depth.
3. Dump 25 sacks of neat cement on top of plug. After allowing cement to set for at least 48 hours test for location and hardness of cement plug in presence of Geological Survey engineer in charge. If cement job is not successful clean out and repeat operation.
4. Fill hole with mud fluid as above specified to 250 feet. Pull all 6 1/2" casing, refill hole with mud fluid to surface.
5. Cement regulation marker in top of 10" casing, marker to consist of 10' of pipe not less than 4" in diameter, of which 4' must extend above the surface. Marker to be capped with a screw cap.
6. Level off ground surface and leave premises in a clean and orderly condition.

DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Serial Number **00201**

Lease or Permit **Permit**

**HAFU TO HTATZ**

**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 RILL OR OTHER WELLS	
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	<b>X</b>
NOTICE OF INTENTION TO SHOOT	SUPPLEMENTARY WELL HISTORY	

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

DATE **Sept 8th** 1931

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

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

Well No. **1** **SW 1/4 Sec. 34** **41 S.** **11 N.** **S. 1. M.**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

The well is located **215** ft. **N** of **S** line and **525** ft. **E** of **W** line of sec. **SW 1/4 Sec. 34**

The elevation of the derrick floor above sea level is **5800** ft. (app.)

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.)

Pulled all of the 6" casing out after finding well clean to bottom of hole. Filled up to 800' ~~with~~ with shale and clay, and found the hole dry. Put down a hard wooden plug on top of the mud, put in 25 sacks of quick-setting cement; stood still 24 hours, hole still dry; put in 2 hard wooden plugs on top of cement and mudded the hole to the top. Cemented in 4 1/2" casing in top of the hole with 4' showing out of top of the well as a marker with a plug screwed in to the collar of the 4 1/2" casing. This 4 1/2" casing was a length of 20'.

Leveled off ground surface and left premises in a clean and orderly condition.

Drilling machine, boiler, and tanks are still standing in position. The same will be removed in the near future.

Left 10" surface conductor in the hole.

The work was in charge of **Al G. Burnham**, and supervised by **Harry Stonehill**. The names and positions of the other employees were **Leslie Wilcox**, hauling oil and water; **Carl Spandlove**, mudding; **Warren Blake**, mixing mud; **Mr. Lee**, mixing mud.

\*NOTE: Approved subject to maintenance in a condition satisfactory to the Supervisor, U. S. Geological Survey.

Approved **Sept. 9, 1931 (See Note\*)**

Company **Royal Oil Development Co.**

*E. W. Henderson*

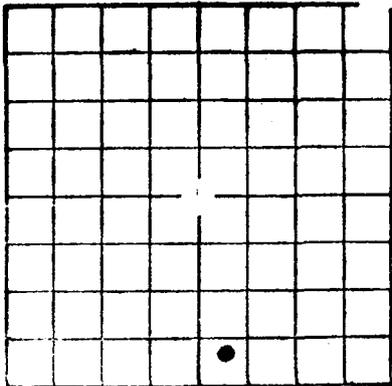
By *Harry Stonehill*

Title **District Engineer**

Title **Agent**

Address **316 Federal Bldg. Salt Lake City, Utah**

Address **209 South Bunker Hill St., Los Angeles, Cal.**



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Salt Lake  
 SERIAL NUMBER 00001  
 LEASE OR PERMIT TO PROSPECT Permit

DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Royal Oil Development Co. Address St. George, Utah  
 Lessor or Tract Public Grant, permittee Field Grafton State Utah  
 Well No. 1 Sec. 34 T. 41 R. 1 Meridian S. & M. County Washington  
 Location 22 ft. N. of E. Line and 324 ft. W. of E. Line of SE 1/4 Sec. 34 Elevation 3850 ft. x.  
(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 Harry Stonehill  
 Title Agent

Date September 9, 1921

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

Commenced drilling March 10, 1921 Suspended October 17, 1921  
 Finished drilling October 17, 1921

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 726 to 729 No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
 No. 2, from 809 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	
10"				40					Conductor
8 1/4"				641					850

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	0				

PLUGS AND ADAPTERS

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

SHOOTING RECORD

**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 \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Cable tools were used from 0 feet to 871 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**DATES**

\_\_\_\_\_, 19\_\_\_\_ 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**

L. E. Wilson \_\_\_\_\_, Driller \_\_\_\_\_, Driller

P. Bradshaw, Tool dresser \_\_\_\_\_, Driller

**FORMATION RECORD**

FROM	TO	TOTAL FEET	FORMATION
0	95	95	Surface dirt and gravel
95	331	236	Red shale
331	334	3	Gray line
334	378	44	Red shale
378	408	30	Gray lime shale
408	422	14	Gray shale
422	423	1	Virgin lime
423	713	290	Red shale
713	718	5	Gray sandy shale
718	726	8	Gray shale
726	727	1	Blown shale, 1 1/4 bbls. water per hr.
727	735	8	Gray shale
735	740	5	Gray lime
740	750	10	Gray lime
750	790	40	Blue shale
790	809	19	Fossil lime
809	851	42	Sandy lime
851	871	20	Hard gray lime - struck crevice and sulphur water and suspended drilling.

GEOLOGICAL SURVEY  
RECEIVED

AUG 20 1929

SALT LAKE CITY, UTAH  
MINERAL LEASING DIV.

LOG OF WELL NO. ONE OF ROYAL OIL DEVELOPMENT  
COMPANY; Drilling on Sec. 34, Twp. 41-S. R.  
11-W. Washington County, Utah, on permit Salt  
Lake City No. 033841.

From	To	Formation.
0	95'	Surface dirt & gravel.
95'	331'	Red shale.
331'	334'	Gray lime.
334'	368'	Red shale.
368'	378'	" "
378'	408'	Gray lime shale.
408'	422'	Gray shale.
422'	423'	Virgin lime
423'	713'	Red shale.
713'	718'	Gray sandy shale.
718'	726'	Gray shale.
726'	729'	Brown shale mak- ing $1\frac{1}{4}$ Bbls. water per hour.
729'	735'	Gray shale.
735'	740'	Gray lime.

This log furnished by W. A. Gahagan, Driller.