

16

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office **State Land**  
Lease No. **1924**  
Unit **North East Salt Valley**

5486

2

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 REDRILLING 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)

October 6, 1948

Well No. **Unit #1** is located **2540** ft. from **N** line and **1720** ft. from **W** line of sec. **2**

**S&NW** Section 2      **23-S**      **20-E**      **Salt Lake**  
(4 Sec. and Sec. No.)      (Twp)      (Range)      (Meridian)  
**Wildcat**      **Grand**      **Utah**  
(Field)      (County or Subdivision)      (State or Territory)

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)

The approximate Casing program for the well is as follows:

- 100' - 16" O.D. Casing cemented to the surface.
- 1000' - 10-3/4" O.D. 40.5# J-55 Casing cemented to the surface.
- Other strings of casing to be decided upon as drilling progresses.

Approximate Depth - 5,000'

(SEE ATTACHED RIDER FOR APPROVAL)

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

Company **The Para Oil Company**

Address **P. O. Box 1398**

**Billings, Montana**

By \_\_\_\_\_

Title **Division Chief Clerk**

# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1398

BILLINGS, MONTANA

October 11, 1948



Mr. C. A. Hauptman  
Department of the Interior  
Oil and Gas Leasing Division  
306 Federal Building  
Salt Lake City 1, Utah

Dear Mr. Hauptman:

In reply to your letter to Mr. Warburton concerning our North-east Salt Valley well in Sections 2, Township 23 South, Range 20 East, Grand County, Utah, we will be more than happy to comply with all of your requests.

Mr. Murray J. Cliff will be the geologist, and our representative, on the well, and his mailing address will be Thompson, Utah, however, he will live in a trailer on the well. We have asked Mr. Cliff to phone you as soon as he gets into Thompson, which should be around Friday of this week. We have also informed him that he is to send you a weekly report of all pertinent information concerning the drilling of this test, and that you would like this report to be on your desk each Monday morning.

We wish to thank you for advising us of your wishes concerning the information you desire about this test and if at any time you desire any more information, we will gladly furnish you with same.

Yours truly,

A handwritten signature in cursive script that reads "Stewart Cronin".

Stewart Cronin  
Division Geologist

SC-mks  
cc:Saxon  
Warburton  
Borden  
Cliff

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake  
LEASE NUMBER \_\_\_\_\_  
UNIT N. E. Salt Valley

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Grand Field Wildcat

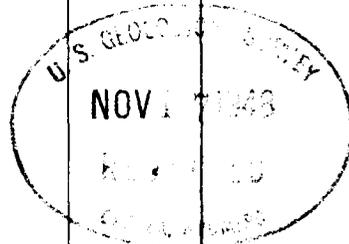
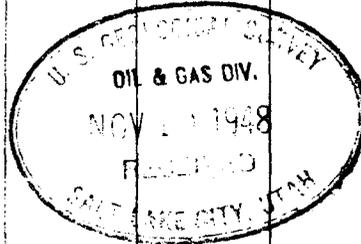
The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1948.

Agent's address P. O. Box 1398 Company The Pure Oil Company

Billings, Montana Signed \_\_\_\_\_

Phone 2114 Agent's title Chief Production 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)
<del>SE 1/4</del> Sec. 2	23S	20E	1							Repairing roads and drilling water well



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.

# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA

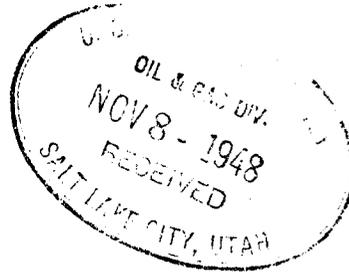
Thompson, Utah

Nov 7, 1948

Mr. C. A. Hauptmann

District Engineer

U. S. G. S



Dear Mr. Hauptmann:

We have started our Unit #1, Northeast Salt Valley unit Area. The well was spudded on Sat, Nov. 6, 1948 at 9.00 PM. After drilling about 42 feet we lost circulation, presumably in a crevice since the Cable tool rig which is drilling our water well had trouble at about the same depth. We are now attempting to regain circulation.

I am now living in a trailer house on the location. We have no phone here but I get mail General Delivery Thompson, Utah

yours Truly  
Murray J. Beliff

POOR COPY

Address all correspondence to The Pure Oil Company, attention of writer.

ALL QUOTATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALL AGREEMENTS CONTINGENT UPON STRIKES, FIRES, ACTS OF THE GOVERNMENT AND CARRIERS, AND ALL OTHER CAUSES BEYOND OUR CONTROL.

# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA

Nov. 14, 1948

Mr. C. G. Hauptmann

U.S.G.S. Salt and Gas Licensing Div.

Dear Sir

Reference is made to the report prepared on the  
Salt Well No. 1 at 1 mile. After reaching a depth  
of 57' circulation was lost, apparently as the result of  
a series of fractures or a major fracture. At the present  
time the TD is 93' with circulation being  
lost constantly.

Yours Truly  
W. H. Bluff

POOR COPY



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# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA

Thompson, Utah

Nov-21, 1948

Mr. C. A. Hampton  
U.S.G.S., Oil & Gas Div.



Dear Mr. Hampton:

There is still very little to report on our NE Salt Valley Unit #1 well. We are still trying to regain circulation but have been only partially successful and have been able to drill only three feet of new hole giving a T.D. of 76 feet. We now plan to set a temporary string of 60 inch casing to restore circulation and permit drilling ahead to determine if there are any more crevices before running casing.

Yours Truly  
M. J. Keliff

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# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA

Nov. 28, 1948

Mr. C. A. Hauptman  
U.S.G.S. Oil & Gas Leasing Div.

Dear Sir:

Our Salt Valley Unit #1 well is now at 246' with circulation lost. We have had no returns since 123' which was white sandstone. I believe we are at present in the Carmel formation, judging by traces of red silty shale found on the bit.

Yours Truly  
M. J. Cluff



Address all correspondence to The Pure Oil Company, attention of writer.

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE State  
LEASE NUMBER \_\_\_\_\_  
UNIT W. E. Salt Valley

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Grand Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of November 1948

Agent's address P. O. Box 1398 Company The Pure Oil Company  
Billings, Montana Signed \_\_\_\_\_

Phone 2114 Agent's title Chief Production 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)
<del>SE 1/4</del> Sec. 2	23S	20E	1							Trying to fill cavity 246 in order to establish circulation and resume drilling.

U.S. GEOLOGICAL SURVEY  
OIL & GAS DIV.  
DEC 22 1948  
RECEIVED  
SALT LAKE CITY, UTAH

U.S. GEOLOGICAL SURVEY  
DEC 20 1948  
RECEIVED  
CASPER, WYOMING

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.

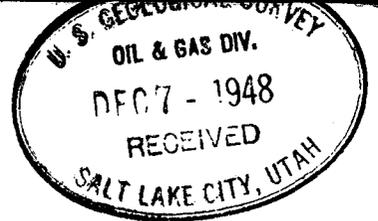
# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO,

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA



Thompson, Utah  
Dec 5, 1948

Mr. C. A. Hauptman  
U.S.G.S.

Dear Sir:

Present total depth on our Salt Valley Unit #1 well is 262' with circulation still lost. At the present time we are reaming the hole to that depth preparatory to hanging a temporary string of pipe.

yours Truly  
M. J. Leiff

Address all correspondence to The Pure Oil Company, attention of writer.

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ALL AGREEMENTS CONTINGENT UPON STRIKES, FIRES, ACTS OF THE GOVERNMENT AND CARRIERS, AND ALL OTHER CAUSES BEYOND OUR CONTROL

# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA

Thompson, Utah  
Dec 12, 1948

Mr. C. A. Hauptman  
Oil & Gas Logging Div.  
U. S. G. S.



Dear Sir:

Report on our NE Salt Valley Unit #1 Well is as follows:

1. Hung 270' of 16" Casing in hole to attempt to restore circulation but did not cement it. We filled the pipe full of mud and it held but as soon as drilling was resumed circulation was lost.
2. We have been drilling with no returns since then and have drilled 9" hole to present depth of 935' with no difficulties encountered.
3. A bottom hole sample at 511' picked off the bit was a red sandy silty shale.
4. A 1 foot core was cut from 820' - 821'. The formation was a buff to red brown, fine grained, soft, friable, poorly cemented sandstone, evidently the Wingate sandstone.

Yours Truly  
M. J. Seliff

Address all correspondence to The Pure Oil Company, attention of writer.

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(SUBMIT IN TRIPPLICATE)

Land Office State Land

Lease No. 1924

Unit North East Salt Valley

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 REDRILLING 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>Subsequent Report of Casing Setting <input checked="" type="checkbox"/></b> |

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

December 21, 1948

Well No. Unit #1 is located 2540 ft. from  N  line and 1720 ft. from  E  W line of sec. 2.

SE 1/4 NW 1/4 Section 2  
(1/4 Sec. and Sec. No.)

23-S  
(Twp.)

20-E  
(Range)

Salt Lake  
(Mention)

Wildcat  
(Field)

Grand  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the ~~surface~~ <sup>ground</sup> above sea level is 5222 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)

Set 10-3/4" OD 40.5# J-55 NSS Casing at 1124'. Pumped 300 sacks cement through Casing. Pumped plug in place at 1089'. Ran Schlumberger Temperature Survey which indicated top of cement in back of casing at 1085'. Ran 2" pipe outside casing and pumped total of 928 sacks cement and 122 bbls. gravel down outside of casing. Cemented outside of casing in stages allowing cement to set up after each pumping stage and checking fill-up. Casing cemented to surface.

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

Company The Pure Oil Company

Address P. O. Box 1398

Billings, Montana

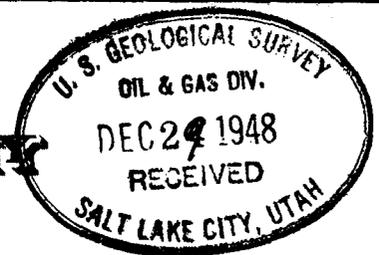
By

Title Division Chief Clerk

*C. Hauptman*

# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.  
ROCKY MOUNTAIN PRODUCING DIVISION  
P. O. BOX 1608  
BILLINGS, MONTANA



Thompson Utah  
Dec 27, 1948

Dear Mr. Hampton:

I am sorry to be so tardy with this report but will get it in on time in the future.

We Commenced drilling the plug at 5:00 AM Dec. 23 and lost circulation at 5:20. Cottonseed hulls were added and circulation was regained at 8:10 AM. Drilling proceeded in normal fashion until 6:30 PM Dec 24. At that time circulation was lost at 1331'. Total depth is now 1385' with no returns since 1331'. We have been out of water since the 25th and due to unfavorable weather are having trouble hauling water.

We had a drilling break at 1280' where the fm drilled a foot per minute for several feet and has been rather soft since then. There was no show of anything and I can see no difference in the cuttings which are 95% quartz sand grains and completely separated so that no chips can be found. Grain size is somewhat smaller in the last samples. We may be in the Mesozoic formation at this time.

Yours Truly  
M. J. Schiff

Address all correspondence to The Pure Oil Company, attention of writer.

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE \_\_\_\_\_  
LEASE NUMBER \_\_\_\_\_  
UNIT **N. E. Salt Valley**

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Grand Field Wildcat  
The following is a correct report of operations and production (including drilling and producing wells) for the month of December 19 48  
Agent's address P. O. Box 1398 Company The Pure Oil Company  
Billings, Montana Signed \_\_\_\_\_  
Phone 2114 Agent's title Chief Production Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CUM. 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>STATE LAND #1924</b>										
<b>SE 1/4 NW 1/4 Sec. 2</b>	<b>23S</b>	<b>20E</b>	<b>1</b>	-	-	-	-	-	-	<b>Drilling at 1664'</b>

C. S. G. W.

JAN 4 1949

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

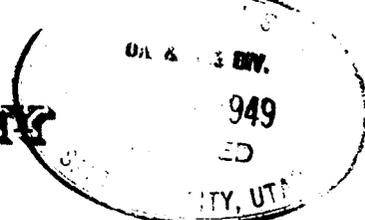
no runs or sales of gasoline during the month. (Write "no" where applicable.)  
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608  
BILLINGS, MONTANA



Jan 2, 1949

Dear Mr. Hampton,

We regained circulation Pac 28 at 1385' and drilled with intermittent returns until 1468' when all circulation was lost. The formation was a very soft friable fine grained pink sandstone.

We drilled without returns from 1468-1565. At 1565 we got fuel returns and held them until 1657. The formation hardened up at 1570 and samples showed a mixture of hard purple shale, soft brick red shale and hard glauconitic sandstone. Present depth is 1664' with circulation lost. The last 5 feet was rather soft but we got no returns.

Yours Truly  
M. J. Beliff



Address all correspondence to The Pure Oil Company, attention of writer.

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# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA



Thompson, Utah

Jan 9, 1949

Dear Mr. Hauptman:

Our Northeast Salt Valley Unit #1 is now drilling at 1910' in red beds which are probably Chinle. We have been having intermittent trouble with lost circulation. We last returned at 1664 and cut a small core to try and determine if the formation was fractured or porous. We got good recovery of a fine grained red siltstone with almost no porosity and no sign of fractures. We drilled from 1868 - 1990 with no trouble and then lost circulation again. That was on Jan. 5 and during the cold weather our water lines froze & could not be kept open. We were not able to resume drilling until Sunday morning Jan 9th.

Yours Truly  
M. J. Leiff

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# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA



Thompson, Utah

Jan 16, 1949

Dear Mr. Hampton:

The report on our NE Salt Valley Unit #1 well is as follows:

Drilled the past week from 1890' - 2035 and Cored from 2335' - 2347'

Drilled red beds typical of Chinle formation - red and purple shales + siltstones, some of it micaceous, also some muddy nodular limestone

From 2036' - 2064' a conglomeratic sandstone which could possibly have been Skuarump but was not characteristic.

Below it more red beds of the same type as before were drilled, and at 2144' - 2169' a muddy white sandstone having some oil staining.

From 2169' - 2330 red beds and at 2332 a trace of oil stained sand in the red shales.

Cored 12 feet and recovered 14 inches - 5 inches Conglomeratic white sandstone and 9 inches red and green shale with no show of oil.

Last circulation difficulties occurred at 1933', 1994', 2208', 2274' and 2346'

2395'

1/16/49

Yours Truly  
M. J. Leiff

Address all correspondence to The Pure Oil Company, attention of writer.

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ALL AGREEMENTS CONTINGENT UPON STRIKES, FIRES, ACTS OF THE GOVERNMENT AND CARRIERS, AND ALL OTHER CAUSES BEYOND OUR CONTROL.



# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA

Thompson, Utah

Jan 23, 1949

Dear Mr. Hauptman:

Reporting on our N.E. Salt Valley Unit #1 Well:

1. Drilled from 2347' - 2525', Cored 2525' - 2537' with full recovery, drilled 2537' - 2640'.
2. Formation from 2347 - 2496 - red beds; red shales and siltstones, micaceous shales and traces of limestone and increasing amounts of anhydrite. At 2496 we entered a section of mixed anhydrite and dolomitic limestone, pyritic black shale and massive crystalline anhydrite. The section is still essentially the same but is becoming somewhat sandy with much associated anhydrite.
3. We have had fairly consistent but small gas readings from the cuttings since 2512' and find some oil saturated black shale and an occasional piece of stained anhydrite.
4. We are still having intermittent difficulties with lost circulation.

Yours Truly  
M. J. Cluff

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# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608  
BILLINGS, MONTANA

Thompson, Utah

Jan 30, 1949

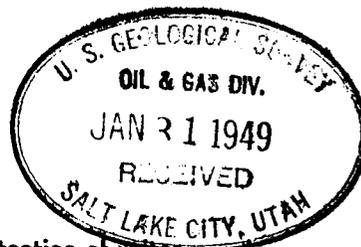
Dear Mr. Hauptman:

The report on our NE Salt Valley Unit #1 Well is as follows:

1. Drilled from 2640' - 2720'. Formation - black shales, gray shales and siltstones, anhydrite and dolomitic limestone with some scattered oil staining. Cuttings gave gas reading on analyzer.
2. Encountered severe lost circulation difficulties at 2645' on Jan 23 and did not recover full returns until Jan 27.
3. Ran Schlumberger 1124' - 2700' - Electric log indicated little porosity - streaky at best in lower 200 feet.
4. Ran Haliburton drill stem test on section from 2485' - 2700' - refer to enclosed sheet.

Yours Truly

M. J. LeBluff



Address all correspondence to The Pure Oil Company, attention of writer.

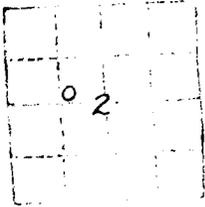
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(SUBMIT IN TRIPLICATE)

Land Office **State Land**  
Lease No. **1924**  
Unit **North East Salt Valley**

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
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NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	<b>Subsequent Report of Drill Stem Test I</b>

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

January 31, 1949

Well No. **Unit #1** is located **2540** ft. from **N** line and **1720** ft. from **EX** line of sec. **2**

**SE 1/4** Section 2  
(1/4 Sec. and Sec. No.)

**23S**  
(Twp.)

**20E**  
(Range)

**Salt Lake**  
(Meridian)

**Wilcoxon**  
(Field)

**Grand**  
(County or Subdivision)

**Utah**  
(State or Territory)

The elevation of the ~~drill floor~~ <sup>ground</sup> above sea level is **5232** 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)

Halliburton Drill Stem Test No. 1:

Total depth 2700' - Set Packer at 2485' - 215' anchor with 3/4" perforations. 5/8" choke on bottom - 1/2" on top - Opened tool at 3:25 p.m. - Air blow immediately - Tool open one hour - No gas or oil - No surface pressure - Bottom Hole Pressure: Flowing - Zero S.I. 15 mins. - Zero Hyd. 1150#. Recovered 20' rotary mud above Packer and 215' lost circulation material in anchor.

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

Company **The Pure Oil Company**

Address **P. O. Box 1398**

**Billings, Montana**

By \_\_\_\_\_

Approved **FEB 7 1949**

Title **Chief Production Clerk**

*C. Stupman*  
District Engineer

NE. Salt Valley

WELL Unit # 1 DRILL STEM TEST NO 1 DATE 1-29-49

Formation Pennsylvanian - (Paradox - Hermosa)

Packer Set 2485' Total Depth 2700'

Bottom Hole Choke 5/8" Derrick Floor Choke 1/2"

Size Drill Pipe 4 1/2" Size Packer 7 1/2"

Size Hole 9" Size & Amount Rat Hole none

Amount Open Hole---Casing to Total Depth 1576'

Amount Perforated Anchor 9' top Perf. - 25' bottom perf.

List Location In Drill Pipe Special Tools Haliborton Safety

Joint + bumper sub immediately above packer

Time Tool Opened 3:25 PM Time Tool Closed 4:25 PM

Length of Time Tool Open 1 hr.

Length of Time Tool Closed For Shut-In Formation Pressure 15 min.

Bottom Hole Formation Flowing Pressure None

Bottom Hole Formation Shut-In Pressure None

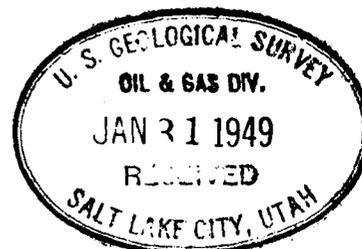
Derrick Floor Flowing Pressure None

Size of Flow Line From Control Head To Pit 2"

Pressure At End Flow Line To Pit None

Results Test slight blow of air immediately - soon stopped

Recovered 20' drilling mud - no oil or gas.



CONDITIONS OF APPROVAL

STATE

1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, ~~the least of the second series of numbers~~ 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 <sup>triplicate</sup> ~~duplicate~~ with the office of the 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 depths of the end of the month, and if shut down the reason therefor.  
Three
5. ~~Two~~ copies of the log of this well on Form 9-330, or other acceptable form and ~~when similar~~ 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 or completion of the well whichever is earlier.
6. The District Engineer, C. A. Hauptman, 306 Federal Building, Salt Lake City 1 Utah, shall be notified on Form 9-331a in <sup>quadruplicate</sup> ~~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 or proposed work.

Approved 081 21 1933  
*C. A. Hauptman*  
 District Engineer

POOR COPY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE \_\_\_\_\_  
LEASE NUMBER \_\_\_\_\_  
UNIT N. E. Salt Valley

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Grand Field Wildcat

The following is a correct report of operations and production (including drilling and producing wells) for the month of January 1949

Agent's address P.O. Box 1396 Company The Pure Oil Company  
Billings, Montana

Phone 2114 Signed \_\_\_\_\_  
Agent's title Chief Production Clerk

SEC. AND 1/4 OF 1/4	TWP.	RANGE	Case No.	Days Produced	Barrels Produced	Crude Oil	Gasoline	Gasoline Produced	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>STATE LAND #1924</b>										
<b>SE 1/4 NW 1/4</b>										
<b>Sec. 2</b>	<b>23S</b>	<b>20E</b>	<b>1</b>							<b>Drilled to 3036' TD</b> <b>Dry hole</b> <b>Plugged and abandoned</b> <b>2-7-49</b> <b>FINAL REPORT</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.

**POOR COPY**

(SUBMIT IN TRIPLICATE)

Land Office State Land  
Lease No. 1924  
Unit North East Salt Valley

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

02

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 REDRILLING 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, 1949

Well No. Unit #1 is located 2540 ft. from [N] line and 1720 ft. from [W] line of sec. 2  
~~SE 1/4 NW 1/4~~, Sec. 2 23-S 20-E Salt Lake  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat Grand Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~surface~~ <sup>ground</sup> above sea level is 5232 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)

Well reached Salt Body at 2780' (Schlumberger Log) and drilled through Salt to 3036'  
 Total Depth.  
 16" OD Casing set at 270' but not cemented. Casing pulled before setting 10-3/4" OD Casing.  
 10-3/4" Casing set at 1124' and cemented to surface. Will be unable to pull casing.  
 Propose to abandon well as follows: T.D. 3036'  
 Heavy mud - 3036' to 2790' 65 sx cement - 1134' to 1034'  
 40 sx cement - 2790' to 2700' Heavy mud - 1034' to 150'  
 Heavy mud - 2700' to 1134' 75 sx cement - 150' to surface  
 Will level off location and set marker in accordance with U.S.G.S. instructions.

Verbal approval given Mr. K. S. Cronin 2/5/49.

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

Company The Pure Oil Company  
 Address Box 1398  
Billings, Montana  
 By [Signature]  
 Title Chief Production Clerk

(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

State Land  
Land Office  
Lease No. 1924  
Unit North East Salt  
Valley

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WELL SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF WELL CLEANING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF WELL PLUGGING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF WELL LIFTING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF WELL REPAIRS
NOTICE OF INTENTION TO PILL OR ALTER PLUG	SUBSEQUENT REPORT OF WELL REPAIRS
NOTICE OF INTENTION TO ABANDON WELL	Subsequent Report of Drill Stem Test
	#2 X

(INDICATE ABOVE BY CHECKING THE NATURE OF REPORT, NOT BY CHECKING BOXES)

February 7 1949

Well No. Unit #1 is located 2540 ft. from <sup>N</sup>~~SE~~ line and 1720 ft. from <sup>W</sup>~~SE~~ line of sec. 2

~~SE~~<sup>NW</sup> Sec. 2 23-S 20-E Salt Lake  
(T. Sec. and Sec. No.) Dist. Range

Wildcat Grand Utah  
(Name) (Name) (State)

The elevation of the <sup>ground</sup>~~surface~~ above sea level is 5232 ft.

DETAILS OF WORK

(State names of and expected depths of objects, sand sizes, weights, and lengths of proposed casings; indicate casing jobs, cementing points, and all other important proposed work.)

Halliburton Drill Stem Test No. 2:

Total depth 3036' - Set packer at 2540' with 496' anchor below packer.  
37' perforations with 8' perforations between 2734' and 2742'. 5/8" choke  
on bottom - 1/2" choke on top - opened tool at 10:18 a.m. - Tool open one hour.  
Air blow immediately, decreasing to zero in 10 minutes. Recovered 458' drilling  
mud - no oil or gas in drill pipe or anchor. Bottom Hole flowing pressure - 500#.  
S.I. 15 mins. 500#  
Hydrostatic 1400#.

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

Company The Pure Oil Company

Address P.O. Box 1398

Billings, Montana

By

Title Chief Production Clerk

*C. Hauptman*

# THE PURE OIL COMPANY

GENERAL OFFICES, 35 EAST WACKER DRIVE, CHICAGO.

ROCKY MOUNTAIN PRODUCING DIVISION

P. O. BOX 1608

BILLINGS, MONTANA



Thompson, Utah

Feb. 9, 1949

Dear Mr. Hampton-

My final report on our NE Salt Valley unit #1 well is as follows:

The well was drilled to a total depth of 3036'. From 2700' down we had small gas indications in the cuttings and at 2756 got small bits of oil saturated siltstone with a trace of oil in the drilling mud. From 2770' to 2780' returns were almost nil and a section was cored from 2781'-99'. We recovered 14' of massive crystalline salt which had thin contorted bands of a darker color and different texture scattered at irregular intervals through the core. These bands appeared to be less soluble and finer grained, and gave the impression of squeezing or flowage.

We then drilled to 2900' with no sample returns and cut out 18' core from 2900'-2918' and recovered 15½' of salt as before. Next we drilled from 2918'-3018' and cut another 18' core from 3018'-34' recovering 16' of salt as in the previous cores.

Schlumberger ran an electric log from 2700'-3036' but the high salinity of the mud prevented good results. The top of the salt was picked at 2780' but it is believed that several thin stringers were drilled between 2770'-80'. We then ran a drill stem test with the packer set at 2540' using 37' of perforated anchor and recovered 458' of drilling mud with no gas or oil and no flowing pressure indicated. Decision was then made to abandon and the well was plugged. The final report of plugging and abandonment will probably be sent from the Billings office since I have no forms nor instructions from them.

Yours Truly  
M. J. Bliff

Address all correspondence to The Pure Oil Company, attention of writer.

ALL QUOTATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALL AGREEMENTS CONTINGENT UPON STRIKES, FIRES, ACTS OF THE GOVERNMENT AND CARRIERS, AND ALL OTHER CAUSES BEYOND OUR CONTROL.

**From:** Pat O'Dell <Pat\_ell@nps.gov>  
**To:** NRDOMAIN.NROGM(BKRUEGER)  
**Date:** 7/30/98 2:04pm  
**Subject:** Abandoned Oil/Gas Wells in Arches Nat'l Park

Dear Mr. Krueger:

I pulled your name from the Utah Division of Oil, Gas, and Mining web site. I am hoping you can lead me to the right source of information. I want to get copies of plugging records for two wells that were drilled on state tracts inside the present day boundary of Arches National Park. The information is needed to determine if any potential liabilities remain with the wells. They are on lands that are part of the ongoing federal-state land exchanges. Our site visits did not produce much concern and now we are just trying to close the paper loop.

The 2 wells are located in Sec. 2, 23S, 20E and Sec. 32, 23S, 21E.

Your assistance would be greatly appreciated if just a reply telling me who I need to contact. Thanks in advance.

Pat O'Dell  
Petroleum Engineer  
National Park Service  
Geological Resource Division  
Lakewood, CO  
(303) 969-2013

**CC:** Jim Sharum <Jim\_Sharum@nps.gov>

**From:** Bob Krueger  
**To:** MNET.MAIL("Pat\_O'Dell@nps.gov")  
**Date:** 8/3/98 3:33pm  
**Subject:** Abandoned Oil/Gas Wells in Arches Nat'l Park -Reply

I have located the files for the two wells you referred to. They are very old wells, circa 1930 and 1948, predating any active regulatory program as far as I can tell. Both files indicate some casing was left in the holes and that the wells were P&A'ed, but did not indicate specifically the procedures followed. No flowing oil/water/or gas was reported on the drilling reports for either well. API #'s are:

- 1) 43-019-11405, Utah Southern Oil Co., Balsey 1, 1930, Status P&A
- 2) 43-019-11566, Pure (Union) Oil Co., State No. 1, 1948, " "

I would say these wells pose little or no "liability" to the NPS. You may want to look at them to be sure.

**CC:** MNET.MAIL("Jim\_Sharum@nps.gov"),

**From:** Pat O'Dell <Pat\_O'Dell@nps.gov>  
**To:** Bob Krueger <nrogm.bkrueger@state.ut.us>  
**Date:** 8/14/98 1:55pm  
**Subject:** Re:Abandoned Oil/Gas Wells in Arches Nat'l Park -Reply

Mr. Krueger,

Thank you for the timely information on the two wells in Arches. I don't have a need for copies of the well files at this time.

Once again, thanks for your help.

Pat O'Dell

Reply Separator

**Subject:** Abandoned Oil/Gas Wells in Arches Nat'l Park -Reply  
**Author:** Bob Krueger <nrogm.bkrueger@state.ut.us>  
**Date:** 8/3/98 3:33 PM

**\*\* High Priority \*\***

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Received: from state.ut.us (168.180.96.41) by ccmil.itd.nps.gov with SMTP  
(IMA Internet Exchange 2.12 Enterprise) id 000AECA4; Mon, 3 Aug 98 17:36:12  
-0400

Received: from STATE-DOMAIN-Message\_Server by state.ut.us  
with Novell\_GroupWise; Mon, 03 Aug 1998 15:34:01 -0600

Message-Id: <s5c5d869.080@state.ut.us>

X-Mailer: Novell GroupWise 4.1

Date: Mon, 03 Aug 1998 15:33:44 -0600

From: Bob Krueger <nrogm.bkrueger@state.ut.us>

To: Pat\_O'Dell@nps.gov

Cc: Jim\_Sharum@nps.gov

Subject: Abandoned Oil/Gas Wells in Arches Nat'l Park -Reply

Mime-Version: 1.0

Content-Type: text/plain

Content-Disposition: inline

**CC:** Jim Sharum <Jim\_Sharum@nps.gov>