

FILE NO

Entered in NID File

Entered in S R Sheet \_\_\_\_\_

Location Map Pinned

Card Indexed

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

Checked by Chief RFS

Copy NID to Field Office e

Approval Letter

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

COMPLETION DATA:

Date Well Completed 10-17-61

Location Inspected MLP

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

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

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

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

LOGS FILED

Driller's Log 11-2-61

Electric Logs (No. ) 2

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

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



# THE PURE OIL COMPANY

NORTHERN PRODUCING DIVISION • Four Corners District

P. O. BOX 265 • MOAB, UTAH • ALPINE 3-3581

August 21, 1961

Mr. Cleon B. Feight  
Executive Secretary  
Utah Oil and Gas Conservation Commission  
310 Newhouse Building  
Salt Lake City 11, Utah

Dear Mr. Feight:

Enclosed in duplicate is the Notice of Intention to Drill the Horsehead Unit No. 1, located in the C NW SW, Sec. 18, Twp. 29S, Rge. 21E, San Juan County, Utah.

The plats which are to be attached to this notice have not as yet been received from our Denver office, but will be forwarded to your attention as soon as possible.

It is anticipated that this well will be ready to spud Wednesday, August 23, 1961.

Yours very truly,

THE PURE OIL COMPANY

J. B. Strong  
District Chief Clerk

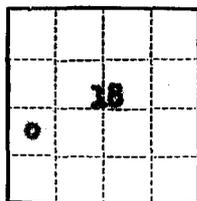
Encl: (2)

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. U-011720

Unit \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Sec. 18

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

August 21, 1961

Horsehead Unit

Well No. 1 is located 1980 ft. from S line and 660 ft. from E line of sec. 18

C NW SW Sec. 18 29S 21E S.T.P.M.  
( $\frac{1}{4}$  Sec. and Sec. No.) (Twp.) (Range) (Meridian)

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

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft. **Will be furnished later.**

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)

Proposed Casing Program:

- 100' - 16" OD conductor casing (Cemented to surface)
- 1,200' - 10-3/4" OD surface casing (Cemented to surface)
- 7,500' - 5-1/2" OD Production String (Adequate cement to meet conditions encountered in hole)

Principal objective - Pre-Cambrian

Estimated Total Depth - 7,500'

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 265

Noab, Utah

Alpine 3-3581

By J. H. Strong  
J. H. Strong  
Title District Chief Clerk

# THE PURE OIL COMPANY LOCATION REPORT

Date August 14, 1961

A.F.E. No. 4514

Division Northern Producing

Prospect District Four Corners (Horsehead Prospect)

USA (Utah 014720)

Acres \_\_\_\_\_ Lease No. \_\_\_\_\_

Ung. Gr. 6189  
Elevation \_\_\_\_\_

Horsehead Unit  
Well No. I (Serial No. \_\_\_\_\_)

Quadrangle NW SW Sec. 18 Twp. 29S Rge. 21E

Bk. \_\_\_\_\_  
Dist. \_\_\_\_\_  
Twp. \_\_\_\_\_

Survey S L M County San Juan State Utah

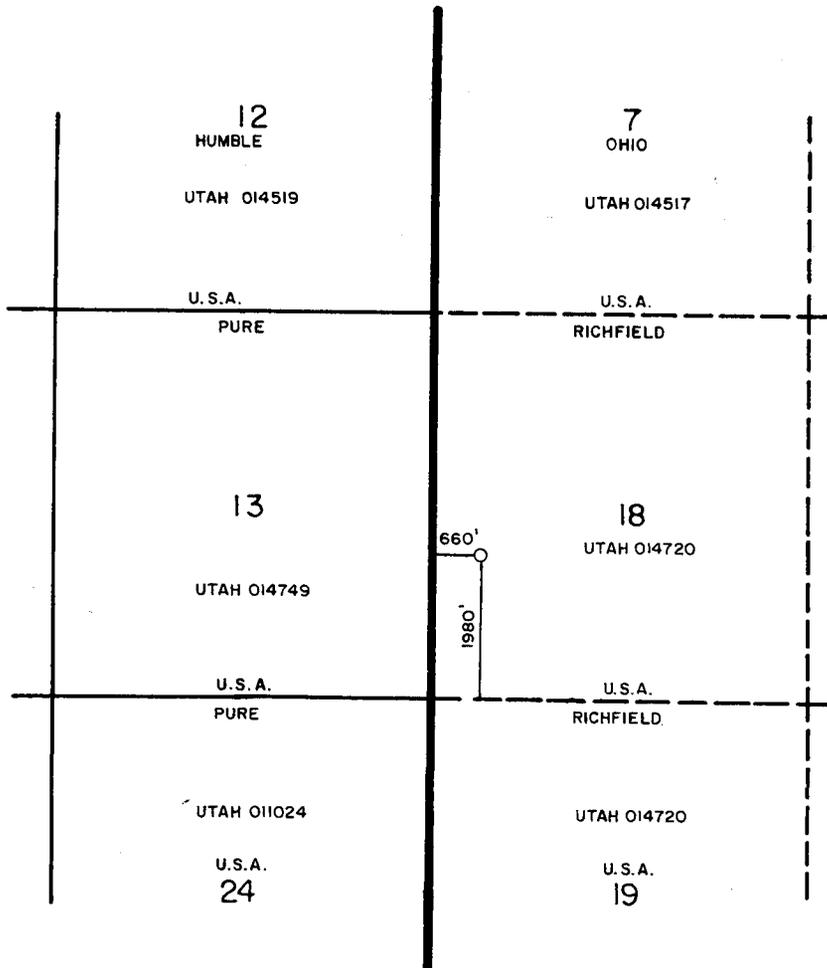
Operator The Pure Oil Company

Map \_\_\_\_\_

1980 Feet North of the South line of Section  
660 Feet East of the West line of Section  
Feet \_\_\_\_\_ of the \_\_\_\_\_ line of \_\_\_\_\_  
Feet \_\_\_\_\_ of the \_\_\_\_\_ line of \_\_\_\_\_

**LEGEND**

-  Gas Well
-  Oil Well
-  Gas-Distillate Well
-  or  Dry Hole
-  Location
-  Abandoned Location
-  or  Abandoned Gas Well
-  or  Abandoned Oil Well
-  or  Input Well



Scale 2" = 1 MILE

Remarks: \_\_\_\_\_

Submitted by *R. J. Lundeck* Civil Engineer

Approved by \_\_\_\_\_ Division Manager

Approved by \_\_\_\_\_ Vice-President—General Manager

August 23, 1961

The Pure Oil Company  
P. O. Box 265  
Moab, Utah

Attn: J. B. Strong, Dist. Chief Clerk

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Horsehead Unit #1, which is to be located 1980 feet from the south line and 660 feet from the west line of Section 18, Township 29 South, Range 21 East, S1EM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted; however, said approval is conditional upon a Plat being furnished this office in accordance with Rule C-4 (a), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

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

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT,  
EXECUTIVE SECRETARY

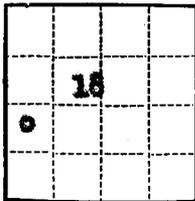
CBF:avg

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

H. L. Coonts - OGCC, Moab

Copy to HC

150



Sec. 18

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. U-014720

Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

August 28, 1961

Horsehead Unit

Well No. 1 is located 1980 ft. from N line and 660 ft. from W line of sec. 18

C NW SW Sec. 18  
(¼ Sec. and Sec. No.)

29S 21E  
(Twp.) (Range)

S.L.P.M.  
(Meridian)

Wildcat  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft. **Will be furnished later.**

DETAILS OF WORK

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

Spudded 7:00 a.m. 8-26-61. Drilled to 65'. Set 62' of 16" 65# H-40 R-2 casing at 59' KB measurement. Cemented with 90 sax regular cement. Good returns. Job complete at 2:30 a.m. 8-27-61.

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 265

Moab, Utah

Alpine 3-3581

By J. B. Strong  
J. B. Strong  
District Chief Clerk

Title \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Salt Lake City  
LEASE NUMBER U-011720  
UNIT \_\_\_\_\_

## LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Wildcat

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

Agent's address P. O. Box 265 Company The Para Oil Company

Mosh, Utah

Signed J. B. Strong

Phone Alpine 3-3581 Agent's title District Chief 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)
C NW SW Sec. 18 Horsehead	29S	21E	1	-0-						Location: 1980' PSL and 660' FWL. Laughlin-Simmons elevations: Ground 6186' KB 6199'. Spudded 7:00 a.m. 8-26-61. Drilled to 65'. Set 62' of 16" 65# H-40 casing at 59' with 90 sax regular cement. Good returns. Drilled to 192'. Lost circulation and regained same. Drilled to 352' and encountered lost circulation. Drilled dry to 360'. Ran three cement plugs using a total of 200 sax of regular cement. Drilled cement from 120' to 267'. Lost circulation at 267'. Ran cement plugs using a total of 280 sax regular cement. Drilled to 524' with no loss of fluid. Incomplete.
			Unit No. 1							

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.)

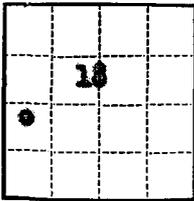
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake City

Lease No. U-014720

Unit \_\_\_\_\_



Sec. 18

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

September 6, 1961

Horsehead Unit

Well No. 1 is located 1980 ft. from N line and 660 ft. from W line of sec. 18

C NW SW Sec. 18  
(¼ Sec. and Sec. No.)

29S  
(Twp.)

21E  
(Range)

S.L.P.M.  
(Meridian)

Wildcat  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

ground

The elevation of the ~~derrier floor~~ above sea level is 6186 ft.  
KB elevation 6199'

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)

9- 4-61: Set 10-3/4" OD casing at 993' and cemented with 450 sax 50% Neat, 50% Pozmix, plus 6% gel, plus 1# of Tufplug per sack and 1/4# Floccle per sack, and followed with 100 sax of Neat cement with 2% calcium chloride. Plug down at 12:40 a.m. 9-5-61. Circulated out 5 sax cement and then lost returns on outside of 10-3/4" casing. Pumped 40 sax regular and 10 sax Calseal with 2500# Gilsorite and 50# Floccle on outside of casing at top of hole. Set 4 hrs. Recemented from outside at top of hole with 125 sax regular cement plus 2% calcium chloride. Job completed at 7:00 a.m. 9-5-61.

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 265

Moab, Utah

Alpine 3-3581

By J. B. Strong  
J. B. Strong  
Title District Chief Clerk

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Salt Lake City  
LEASE NUMBER U-011720  
UNIT \_\_\_\_\_

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Wildcat

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

Agent's address P. O. Box 265 Company The Pure Oil Company  
Moab, Utah Signed J. Blum

Phone Alpine 3-3581 Agent's title District Chief 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)
C NW SW Sec. 18 Horsehead Unit No. 1	29S	21E	1	-0-						Drilled from 524' to 993'. Set 10-3/4" OD casing at 993'. Cemented with 450 sax 50% Heat, 50% Posmix, plus 6% gel, plus 1# Tapplug per sack and 1/4# Flo-calc per sack, followed with 100 sax Heat cement with 2% calcium chloride. Plug down at 12:40 a.m. 9-5-61. Circulated out 50 sax cement and then lost returns on outside of 10-3/4". Pumped 40 sax regular and 10 sax Calseal with 2500# Gilsomite and 50# Flo-calc on outside of casing at top of hole. Let set 4 hrs. and recemented from top with 125 sax regular cement plus 2% calcium chloride. Drilled to 3844'. Lost circulation. Spotted 75 sax of cement with 25# Gilsomite per sack plus 3% calcium chloride. Drilled to 3740' and lost circulation. Spotted 75 sax regular cement with 25# Gilsomite per sack and 3% calcium chloride. Drilled to 4006' and lost circulation. Ran 75 sax regular cement with 25# Gilsomite per sack and 3% calcium chloride. Stuck drill pipe at 4006'. Ran McCullough string shot and backed off pipe at 3911'. Left 3 jts. of 1-1/2" drill pipe in hole. Washed over to 4006'. Ran overshot and recovered fish. Drilled to 6224'. Incomplete.

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**

NORTHERN PRODUCING DIVISION • Four Corners District

P. O. BOX 265 • MOAB, UTAH • ALPINE 3-3581

October 5, 1961

Mr. Cleon B. Feight, Executive Secretary  
Utah Oil and Gas Conservation Commission  
310 Newhouse Building  
Salt Lake City 11, Utah

Dear Mr. Feight:

It is respectfully requested that all information on The Pure Oil Company Horsehead Unit No. 1 well be held as confidential for a period of ninety (90) days.

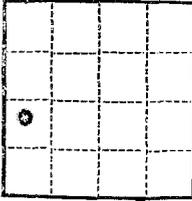
In the event this information is released prior to that time, your office will be notified immediately.

Yours very truly,

THE PURE OIL COMPANY

J. B. Strong  
District Chief Clerk

*Rec'd*



Sec. 18

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. U-014720

Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

October 5, 1961

Horsehead Unit

Well No. 1 is located 1980 ft. from N line and 660 ft. from W line of sec. 18

C NW SW Sec. 18 29S 21E S. L. P. M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

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

The elevation of the ~~surface~~ <sup>ground</sup> above sea level is 6186 ft.  
KB elevation 6199'

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)

10-3-61: DST NO. 1 - 6359' - 6120' Tool open 30 minutes. Opened with 5 or 6 bubbles then died. Recovered 30' of drilling fluid. Pressures: IH and PH 3375#; 30 minute ICI and PCI 1890#; IP and PF 85#; Bottom hole temperature 104°.

Sample Tops:

Hermosa 2720' (+3479) Mississippiian 6356' (-157)  
Paradox "A" 4278' (+1921)  
Paradox "B" 4463' (+1736)  
Salt Top 4559' (+1640)  
Base of Salt 6172' (+27)

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

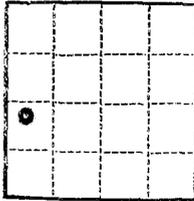
Address P. O. Box 265

Moab, Utah

Alpine 3-3581

By J. B. Strong  
J. B. Strong  
District Chief Clerk

Form 9-331a  
(Feb. 1961)



Sec. 18

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. U-014720

Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

October 5, 1961

Horsehead Unit

Well No. 1 is located 1980 ft. from N line and 660 ft. from E line of sec. 18

C N<sup>W</sup> SW Sec. 18  
(¼ Sec. and Sec. No.)

29S 21E  
(Twp.) (Range)

S.L.P.M.  
(Meridian)

Wildcat  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the ~~drill hole~~ <sup>ground</sup> above sea level is 6186 ft.  
KB elevation 6199'

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)

10-4 & 5-61 DST NO. 2 - 6420' - 6510' Tool open 45 minutes. Opened with good strong blow, decreased to weak blow in 10 minutes, died in 30 minutes. Recovered 60' of drilling mud and 4000' of black salt water: Pressures: IH & FH 3440#; 30 minute ICI & FCI 1995#; IF 1295#; PF 1995#, Bottom hole temperature 110°.

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

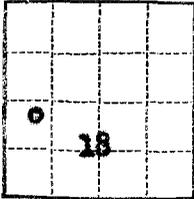
Company The Pure Oil Company

Address P. O. Box 265

Moab, Utah

ALpine 3-3581

By J. H. Strong  
Title District Chief Clerk



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. 11-011720

Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

October 18, 19 51

Horsehead Unit

Well No. 1 is located 1980 ft. from {N} line and 660 ft. from {E} line of sec. 18

C M S. Sec. 18  
(¼ Sec. and Sec. No.)

293  
(Twp.)

21S  
(Range)

S.L.P.M.  
(Meridian)

Wildcat

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation of the ~~surface~~ <sup>ground</sup> above sea level is 6186 ft. KB elevation 6199'

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)

10-16-61: DST No. 3 - 7131' - 7256' - McCracken

Tool open one hour. Very weak blow throughout test. Recovered 95' of drilling fluid. Pressures: 1R and 1B 3750#; 30 minute 1C 2330#; 1F 50#; 1P 70#; 30 minute 1D 1530#. Bottom hole temperature 110°.

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

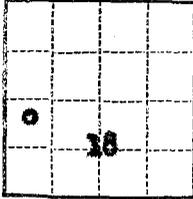
Address P. O. Box 265

Moab, Utah

Alpine 3-3581

By J. B. Strong

Title District Chief Clerk



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City

Lease No. U-014720

Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

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NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....	<b>X</b>		

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

October 18, 1961

Horseshoe Unit

Well No. 1 is located 1980 ft. from N line and 660 ft. from W line of sec. 18

C NW SW Sec. 18  
(1/4 Sec. and Sec. No.)

29S 21E  
(Twp.) (Range)

S.L.M.  
(Meridian)

Wildcat  
(Field)

San Juan  
(County or Subdivision)

Utah  
(State or Territory)

The elevation of the ~~bottom floor~~ ground above sea level is 6186 ft. ~~KB elevation~~ 6199'.

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)

SEE SUPPLEMENTAL SHEET ATTACHED

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

Company The Pure Oil Company

Address P. O. Box 265

Moab, Utah

Alpine 3-3581

By J. B. Strong

Title District Chief Clerk

SUNDRY NOTICES AND REPORTS ON WELLS

Horsehead Unit No. 1  
G NW SW Sec. 18-29S-21E  
San Juan County, Utah

October 18, 1961

Notice of Intention To Abandon Well

Drilled to TD of 7256'. Drilling completed at 2:00 p.m. 10-16-61.

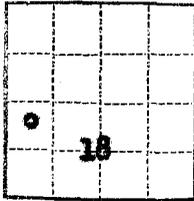
LOG TOPS

Wingate	222	+5977	Paradox C	4512	+1587
Chinle	504	+5695	Top of Salt	4564	+1635
Shinarump	923	+5267	Base of Salt	6199	+ 22
Moenkopi	958	+5241	Holas	6370	- 171
Cutler	1292	+4907	Mississippian	6396	- 197
Harness	2734	+3465	Curay	6910	- 711
Paradox A	4279	+1920	Elbert	7052	- 853
Paradox B	4469	+1730	McGracken	7172	- 973

Propose to plug and abandon well as follows:

- Plug No. 1 6850' - 7000' - 150' - 65 sax salt saturated regular cement.
- Plug No. 2 6125' - 6275' - 150' - 65 sax salt saturated regular cement.
- Plug No. 3 4500' - 4600' - 100' - 45 sax salt saturated regular cement.
- Plug No. 4 2650' - 2800' - 150' - 65 sax salt saturated regular cement.
- Plug No. 5 975' - 1025' - 50' - 35 sax salt saturated regular cement.
- Plug No. 6 - 10 sax cement in top of 16" OD conductor with dry hole marker installed in accordance with U.S.O.S. Regulations.

Verbal approval obtained 10-14-61 by Stanley Wahl from John Dulesky - Durango U.S.O.S.



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake City  
Case No. U-011720  
Unit \_\_\_\_\_

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	<b>X</b>
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 23, 1961

Horsehead Unit

Well No. 1 is located 1980 ft. from N line and 660 ft. from E line of sec. 18

C 4 N 31 Sec. 18 29S 21E S.L.P.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

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

The elevation of the derrick floor above sea level is 6186 ft. KB elevation 6199'.

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)

10-17-61: Well plugged and abandoned using a total of 285 sax salt saturated regular cement as follows:

- Plug No. 1 - 6850 - 7000 - 150' - 65 sax
- Plug No. 2 - 6125 - 6275 - 150' - 65 sax
- Plug No. 3 - 4500 - 4600 - 100' - 45 sax
- Plug No. 4 - 2650 - 2800 - 150' - 65 sax
- Plug No. 5 - 975 - 1025 - 50' - 35 sax
- Plug No. 6 - 10 sax in top of 16" OD conductor with dry hole marker installed in accordance with U.S.G.S. regulations.

Rig released at 3:00 p.m. 10-17-61. FINAL

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

Company The Pure Oil Company

Address P. O. Box 265

Moab, Utah

Alpine 3-3581

By J. B. Strong  
District Chief Clerk



# THE PURE OIL COMPANY

NORTHERN PRODUCING DIVISION • Four Corners District  
P. O. BOX 265 • MOAB, UTAH • ALPINE 3-3581

October 25, 1961

Mr. Cleon B. Feight  
Executive Secretary  
Utah Oil & Gas Conservation Commission  
310 Newhouse Building  
Salt Lake City 11, Utah

Dear Mr. Feight:

The information on The Pure Oil Company  
Horsehead Unit No. 1, located in the C NW SW,  
Section 18, 29 S, 21 E, San Juan County, Utah  
and on the Lost Canyon USA No. 1, located in  
the SW SE, Section 19, 30 S, 20 E, San Juan County,  
Utah is no longer to be kept confidential.

Your cooperation on this matter has been  
greatly appreciated.

Yours very truly,

THE PURE OIL COMPANY

J. B. Strong,  
District Chief Clerk

JBS:mc

Released  
OCT 26 1961  
WJ

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.  
LAND OFFICE Salt Lake City  
LEASE NUMBER U-011720  
UNIT \_\_\_\_\_

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Wildcat

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

Agent's address P. O. Box 265 Company The Pure Oil Company

Moab, Utah

Signed

J. B. Strong  
District Chief Clerk

Phone Alpine 3-3581

Agent's title

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)
C NW SW Sec. 18 Horshead	29S	21E	1	-0-						<p>Drilled 6224' to 6420'. DST No. 1 - 6359'-6420'. Recovered 30' of drilling fluid. Drilled to 6540'. DST No. 2 6420'-6540'. Recovered 60' of drilling mud and 4000' of black salt water. Drilled to 7212'. Ran Schlumberger GR Sonic Laterolog, CDM, Directional, SRS logs. Drilled to 7256' TD. Drilling completed 10-16-61. DST No. 3 7131'-7256'. Recovered 95' of drilling fluid. Well P &amp; A 10-17-61 using a total of 285 sax of salt saturated regular cement as follows:</p> <p>Plug No. 1 - 6850'-7000' - 150' - 65 sax            Plug No. 2 - 6125'-6275' - 150' - 65 sax            Plug No. 3 - 4500'-4600' - 100' - 45 sax            Plug No. 4 - 2650'-2800' - 150' - 65 sax            Plug No. 5 - 975'-1025' - 50' - 35 sax            Plug No. 6 - 10 sax in top of 16" OD conductor with dry hole marker installed in accordance with U.S.G.S. regulations. Rig released 10-17-61.</p> <p><u>FINAL</u></p>

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

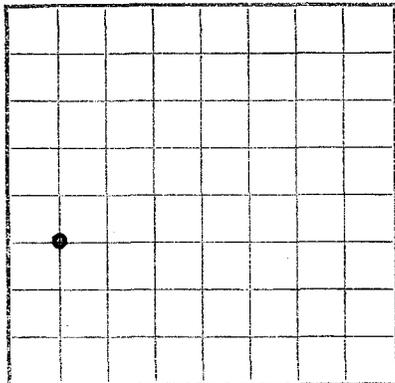
No runs or sales of gasoline during the month. (Write "no" where applicable.)

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.

*1961*

Form 9-330

U. S. LAND OFFICE Salt Lake City  
SERIAL NUMBER U-014720  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Pure Oil Company Address P.O. Box 255 - Moab, Utah  
Lessor or Tract U. S. Government Field Wildcat State Utah  
Horsehead Unit  
Well No. 1 Sec. 18 T. 29S R. 21E Meridian S.L.P.M. County San Juan KB 6199'  
Location 1980 ft.  $\left\{ \begin{matrix} N. \\ \cancel{S.} \end{matrix} \right\}$  of S. Line and 660 ft.  $\left\{ \begin{matrix} E. \\ \cancel{W.} \end{matrix} \right\}$  of W. Line of N.W., Sec. 18 Elevation Gr. 5186'  
(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 J. B. Strong  
Title District Chief Clerk

Date November 1, 1961

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

Commenced drilling August 26, 1961 Finished drilling October 16, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None 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 None to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
16"	65#	8-R	NSS	59'	Coupling				Cemented to surface.
10-3/4"	32.75#	8-R	NSS	993'	Fleet				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
16"	59'	99 sx	Halliburton		
10-3/4"	993'	725 sx	Halliburton		

PLUGS AND ADAPTERS

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

FOLD MARK

**SHOOTING RECORD**

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

**TOOLS USED**

Rotary tools were used from zero feet to 7256 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**DATES**

Well Plugged & Abandoned October 17, 1961 Put to producing Dry Hole, 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**

\_\_\_\_\_, Driller \_\_\_\_\_, Driller  
 \_\_\_\_\_, Driller \_\_\_\_\_, Driller

**FORMATION RECORD**

FROM-	TO-	TOTAL FEET	FORMATION
0-	360'	360'	Sand
360'	993'	633'	Sand and shale.
993'	1260'	267'	Shale.
<del>1260'</del>	<del>2056'</del>	<del>796'</del>	<del> </del>
1260'	2056'	796'	Sand and shale.
2056'	2405'	349'	Shale.
2405'	3079'	674'	Sand and shale.
3079'	3447'	368'	Lime.
3447'	3674'	227'	Sand and shale.
3674'	3850'	176'	Lime, shale and chert.
3850'	4085'	235'	Lime and shale.
4085'	4292'	207'	Lime, shale and chert.
4292'	4452'	160'	Lime and shale.
4452'	4734'	282'	Salt and shale.
4734'	5300'	566'	Salt with shale stringers.
5300'	6224'	924'	Salt and shale.
6224'	6354'	130'	Lime and shale.
6354'	6420'	66'	Limestone.
6420'	6540'	120'	Lime and shale.
6540'	6667'	127'	Lime.
6667'	6851'	184'	Lime and shale.
6851'	6973'	122'	Lime.
6973'	7256'	283'	Lime and shale.
		7256'	TOTAL DEPTH

[OVER]

## FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
<p><b>DST No. 1, 6359' - 6420'.</b> Tool open 30 minutes. Opened with 5 or 6 bubbles then died. Recovered 30' of drilling fluid. Pressures: IH and FH 3375, 30 minute ICI and FCI 1890, IF and FF 85. Bottom hole temperature 104°.</p>			
<p><b>DST No. 2, 6420' - 6540'.</b> Tool open 45 minutes. Opened with good strong blow, decreased to weak blow in 10 minutes, died in 30 minutes. Recovered 60' of drilling mud and 4000' of black salt water. Pressures: IH and FH 3440, 30 minute ICI and FCI 1995, IF 1295, FF 1995. Bottom hole temperature 110°.</p>			
<p><b>DST No. 3, 7131' - 7256', McCracken.</b> Tool open one hour. Very weak blow throughout test. Recovered 95' of drilling fluid. Pressures: IH and FH 3750, 30 minute ICI 2330, IF 50, FF 70, 30 minute FCI 1530. Bottom hole temperature 110°.</p>			

**IMPORTANT MARKERS**

Wingate	222'	(45977)
Chinle	504'	(45695)
Shinarump	923'	(45276)
Moenkopi	958'	(45211)
Cutler	1292'	(44907)
Hermosa	2734'	(43465)
Paradox "A"	4279'	(41920)
Paradox "B"	4469'	(41730)
Paradox "C"	4512'	(41687)
Top of Salt	4564'	(41635)
Base of Salt	6199'	(422)
Molas	6370'	(- 171)
Mississippian	6396'	(- 197)
Ouray	6910'	(- 711)
Elbert	7052'	(- 853)
McCracken	7172'	(- 973)