

FILE NOTATION

Entered in NID File \_\_\_\_\_  
 Entered On S R Sheet \_\_\_\_\_  
 Location Map Pinned  \_\_\_\_\_  
 Card Indexed  \_\_\_\_\_  
 IWR for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_  
 Copy NID to Field Office \_\_\_\_\_  
 Approval Letter  \_\_\_\_\_  
 Disapproval Letter \_\_\_\_\_

COMPLETION DATA:

Date Well Completed 9-19-58  
 OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_  
 GW \_\_\_\_\_ OS \_\_\_\_\_ PA

Location Inspected \_\_\_\_\_  
 Bond released \_\_\_\_\_  
 State of Fee Land \_\_\_\_\_

LOGS FILED

Driller's Log 9-25-58  
 Electric Logs (No. ) 3

E \_\_\_\_\_ I \_\_\_\_\_ EI  \_\_\_\_\_ GR \_\_\_\_\_ GR-N  \_\_\_\_\_ Micro  \_\_\_\_\_  
 Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

Scout Report sent out

Noted in the NID File

Location map pinned

Approval or Disapproval Letter

Date Completed, P. & A, or  
operations suspended

---

Pin changed on location map

Affidavit and Record of A & P

Water Shut-Off Test

Gas-Oil Ratio Test

Well Log Filed

**APPROVED**  
Form 9-331a  
(Feb. 1951)

AUG 23 1958

JERRY W. LONG  
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake  
Lease No. 3-68105  
Unit \_\_\_\_\_

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

**RECEIVED**  
AUG 5 1958  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

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

August 4, 1958

F. D. Thornton  
Well No. No. 1 is located 1980 ft. from S line and 610 ft. from W line of sec. 19  
SW 1/4 Sec. 19 39S 21E 31N  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat San Juan New Mexico  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~center floor~~ <sup>ground</sup> above sea level is 1630 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)

Three States Natural Gas Company proposes to drill a 6100' test or to the massive salt member of the paradox formation.  
Set approx. 150' of 8-5/8" O.D. surface completely cemented with cement.  
Set approx. 6100' of 5 1/2" O.D. or the deepest depth of commercial production and cemented with sufficient cement to protect all commercial oil and gas production.  
All zones showing good signs of possible production will be adequately tested.

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

Company Three States Natural Gas Company  
Address P. O. Box 67  
Farmington, New Mexico  
By John C. [Signature]  
Title Assistant Dist. Supt.

COMPANY Three States Natural Gas Company

Well Name & No. W. D. Thornton No. 1

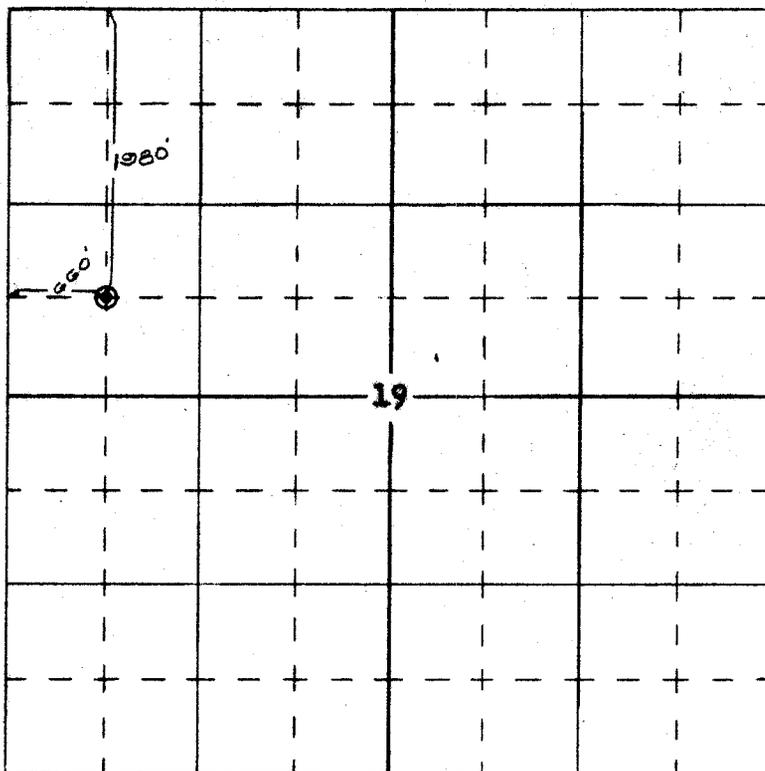
Lease No. U-08105

Location 1980' from the North line and 660' from the West line

Being in SW 1/4

Sec. 19, T29 S., R23 W., ~~SECTION~~, S.L.M., San Juan County, Utah

Ground Elevation 4638



RECEIVED  
AUG 5 1958  
U. S. GEOLOGICAL SURVEY  
FARMINGTON, NEW MEXICO

Scale -- 4 inches equals 1 mile

Surveyed June 18, 19 58

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



States Oil Field Surveys  
Farmington, New Mexico

*Ernest V. Echohawk*

Ernest V. Echohawk  
Registered Land Surveyor  
N. M. Reg. #1545

Practicing in Utah under Law  
regulating Professional Engrs.  
and Land Surveyors, Utah Code 1953,  
Title 58-10-16

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake  
LEASE NUMBER U-08105  
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 58,

Agent's address P. O. Box 67 Company Three States Natural Gas Co.

Farmington, New Mexico Signed John Caruth

Phone Davis 5-9293 Agent's title Assistant Dist. Supt.

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)
19 SW NW	39S	23E	1	None	None		None	None	None	Spud 8-16-58  As of 9-1-58 drilling 4312 feet in lime and shale.

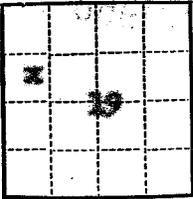
NOTE.—There were no runs or sales of oil; no M cu. ft. of gas sold;

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  
Lease No. U-00105  
Unit \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

71-#  
8-25

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<input checked="" type="checkbox"/>
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 17, 1958

Well No. Thornton No. 1 is located 1900 ft. from N line and 660 ft. from W line of sec. 19

SW 1/4 Sec. 19 (1/4 Sec. and Sec. No.)    39N (Twp.)    23E (Range)    S1M (Meridian)  
Wildcat (Field)    San Juan (County or Subdivision)    Utah (State or Territory)

The elevation of the ~~ground~~ ground above sea level is 4638 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)

Spudded with Rotary Tools 12 midnight 8-16-58. Drilling 12 1/4" hole to 470 feet. Ran 15 jts. 4 1/2 feet of 8-5/8" O.D. 6rd tpi. 32# J-55 National sds. casing set at 468.42' w/250 cc. regular cement, 2% calcium chloride. Circulated to surface. Plugdown 5 1/2" pas. 8-17-58. W. O. C. 2 1/2 hrs. Tested plug w/1000 PSI for 30 min. Test OK.

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

Company Three States Natural Gas Company

Address P. O. Box 67  
Paradise, New Mexico

By Jahn Caruth  
Title Assistant Dist. Supt.

August 25, 1958

Three States Natural Gas Company  
P. O. Box 67  
Farmington, New Mexico

Attention: Mr. Crothers

Gentlemen:

On August 15, 1958, in order to save time and money, verbal approval was granted by this office to drill Well No. Thornton 1, 1980 feet from the north line and 660 feet from the west line of Section 19, Township 39 South, Range 23 East, SLM, San Juan County, Utah.

As of yet, the notice of intention to drill for the above well has not been filed.

Please expedite.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT  
SECRETARY

CBF:co

Three States Natural Gas Company

Farmington, N. M.

August 26, 1958

TO: J. D. Cooper, Dallas, Texas  
FROM: John Carothers, Farmington, New Mexico  
SUBJECT: W. D. Thornton No. 1.

Transmitted herewith is approved copy of "Notice of Intention to Drill", Form 9-331a and Survey Plat on our W. D. Thornton #1 located in the SW NW of Section 19, T-39S, R-23E, San Juan County, Utah.

  
John Carothers

Encls. - 2

CC: Mr. C. B. Feight, Utah (1) ✓  
Reynolds Mining Corp. (2)  
W. E. Zabriskie (1)  
Shell Oil Corp. (1)

August 29, 1958

Three States Natural Gas  
P. O. Box 67  
Farmington, New Mexico

Attention: John Carothers, Assistant  
District Superintendent

Gentlemen:

This office is in receipt of your notice of intention to drill Well No. W. D. Thornton 1, located 1980 feet from the north line and 660 feet from the west line of Section 19, Township 39 South, Range 23 East, S14M, San Juan County, Utah.

Please be advised that this letter is to confirm our verbal approval of August 15, 1958, to drill the above mentioned well.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

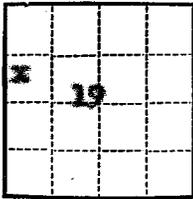
CLEON B. FELCH  
SECRETARY

CBF:co

cc: Phil McGrath, Dist. Eng.  
USGS, Farmington,  
New Mexico

(SUBMIT IN TRIPLICATE)

Land Office Salt Lake  
Lease No. U-08105  
Unit \_\_\_\_\_



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

*W-H*  
*9-25*  
*Note*  
*as by*  
*C comm*  
*was*  
*not*  
*notified*  
*until*  
*after*  
*Plan*  
*Job*  
*H*

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.....	<input checked="" type="checkbox"/>	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

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

September 22, 1958

Well No. Thornton #1 is located 1980 ft. from N line and 660 ft. from E line of sec. 19  
SW NW Sec. 19 39S 23E S1M  
(¼ 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 4649 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)

A total depth of 5767' was drilled.

On September 15, 1958, verbal permission was obtained from Mr. Jerry Long of the U. S. Geological Survey in Farmington, New Mexico, to plug and abandon this well in the following manner:

Cement plugs from 5702-5767 T.D., 4494 to 4607, 1130 to 1250, 400 to 725, and top of surface pipe. An appropriate sign and marker will be placed at wellsite. The location will be restored as nearly as possible to its original status and the U.S. Geological Survey office in Farmington, New Mexico will be notified of the completion date. No commercial shows of oil or gas were encountered during the drilling of the well.

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

Company Three States Natural Gas Company  
 Address P. O. Box 67  
Farmington, New Mexico

By John Carleton  
 Title Assistant Dist. Supt.

W /

X			
	19		

(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Salt Lake  
Lease No. U-08105  
Unit \_\_\_\_\_

7-14  
9-25

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.....	X
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)

September 22, 1958

Well No. Thornton No. 1 is located 1980 ft. from N line and 660 ft. from W line of sec. 19  
SW NW Sec. 19 39S 23E S1M  
(¼ 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 4649 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)

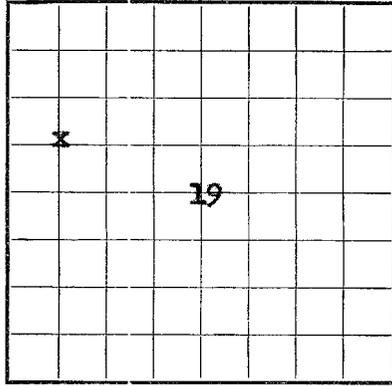
Well was plugged and abandoned as dry with plugs being spotted as follows: 20 sacks of cement from 5702 to 5767 feet (T.D.) 35 sacks from 4494 to 4607 feet, 40 sacks from 1130 to 1250 feet, 100 sacks from 400 to 725 feet. Set 8-5/8" cement retainer at 430 feet and squeeze w/50 sacks., 5 sacks in top of surface w/marker cemented in place. The plugging was completed on September 19, 1958.  
Released rig at 10 p.m. 9-19-58

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

Company Three States Natural Gas Company  
Address P. O. Box 67  
Farmington, New Mexico  
By John Carothers  
Title Assistant Dist. Supt.

157

U. S. LAND OFFICE Salt Lake  
SERIAL NUMBER U-08105  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

71-4  
10-1

LOG OF OIL OR GAS WELL

Company Three States Natural Gas Co. Address P. O. Box 67, Farmington, New Mexico  
Lessor or Tract Thornton Field Wildcat State Utah  
Well No. 1 Sec. 19 T. 39S R. 23E Meridian S1M County San Juan  
Location 1980 ft. N of S Line and 660 ft. E of W Line of Sec. 19 Elevation 4649  
(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 John Carothers  
Title Assistant District Supt.

Date 9-22-58

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

Commenced drilling 8-16-58, 19\_\_\_\_ Finished drilling 9-17-58, 19\_\_\_\_

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 350 to 450 No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from 610 to 1090 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—	
<u>8-5/8</u>	<u>32</u>	<u>8</u>	<u>Nat.</u>	<u>452.72</u>	<u>Tex Pat.</u>				<u>Surface</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>168.42'</u>	<u>250</u>	<u>NUVCO</u>		

PLUGS AND ADAPTERS

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

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHOOTING RECORD

FOLD MARK



FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
5696	5698	2	Anhydrite
5698	5709	11	Dolomite
5709	5710	1	Anhydrite
5710	5712	2	Dolomite
5712	5724	12	Limestone
5724	5742	18	Dolomite
5742	5749	7	Shale Paradox "D" 5742
5749	5767 T.D.	18	Lime

71-K  
10-7

September 29, 1958

U. S. Geological Survey  
P. O. Box 965  
Farmington, New Mexico

Gentlemen:

Transmitted hereto is a copy of the following Schlumberger logs on our Thornton No. 1. Well located in the SW NW of Section 19, T-39S, R-23E, San Juan County, Utah.

Induction Electrical Log  
Gamma Ray- Neutron  
Micro-Log

Yours truly,

THREE STATES NATURAL GAS CO.

  
John Carothers

Encls. 3  
cc: Utah Oil & Gas Conservation Commission - 3 ✓  
1928