

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 [Signature]

Copy NID to Field Office

Approval Letter 7-11-67

Disapproval Letter

COMPLETION DATA:

Date Well Completed 8-28-67

Location Inspected

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

Bond released

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

State of Fee Land

LOGS FILED

Driller's Log 10-26-67

Electric Logs (No. ) 5

E \_\_\_\_\_ I \_\_\_\_\_ E-I ✓ (2) GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_

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

Continuous Dipmeter

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
 P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface  
 3382' FSL, 4545' FEL, Lot 6 sec. 7  
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 16 miles SE of Mapleton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 725'  
 18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. none

16. NO. OF ACRES IN LEASE 651.48  
 19. PROPOSED DEPTH 3500' ✓

17. NO. OF ACRES ASSIGNED TO THIS WELL -  
 20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6829'

5. LEASE DESIGNATION AND SERIAL NO. Utah 0140866  
 6. IF INDIAN, ALLOTTED OR TRIBE NAME -  
 7. UNIT AGREEMENT NAME Thistle Dome Unit  
 8. FARM OR LEASE NAME Unit Well  
 9. WELL NO. 1  
 10. FIELD AND POOL, OR WILDCAT Thistle Dome *W. Field*  
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA *W. 6E. at*  
 7-9S-6E., SLB&M  
 12. COUNTY OR PARISH Utah  
 13. STATE Utah

22. APPROX. DATE WORK WILL START\* August 25, 1966

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	10-3/4" ✓	32.75# ✓	350 ✓	230 sacks ✓
7-7/8"	4-1/2"	11.6# ✓	3500 ✓	sufficient ✓

We would like your permission to drill the subject well to an estimated depth of 3500'. Anticipated formation tops are as follows: North Horn at the surface and undifferentiated Mesaverde at 3050'.  
*(2 inches)*

*C-R  
F-R*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED B.W. Craft General Manager, Production and Transmission DATE July 8, 1966

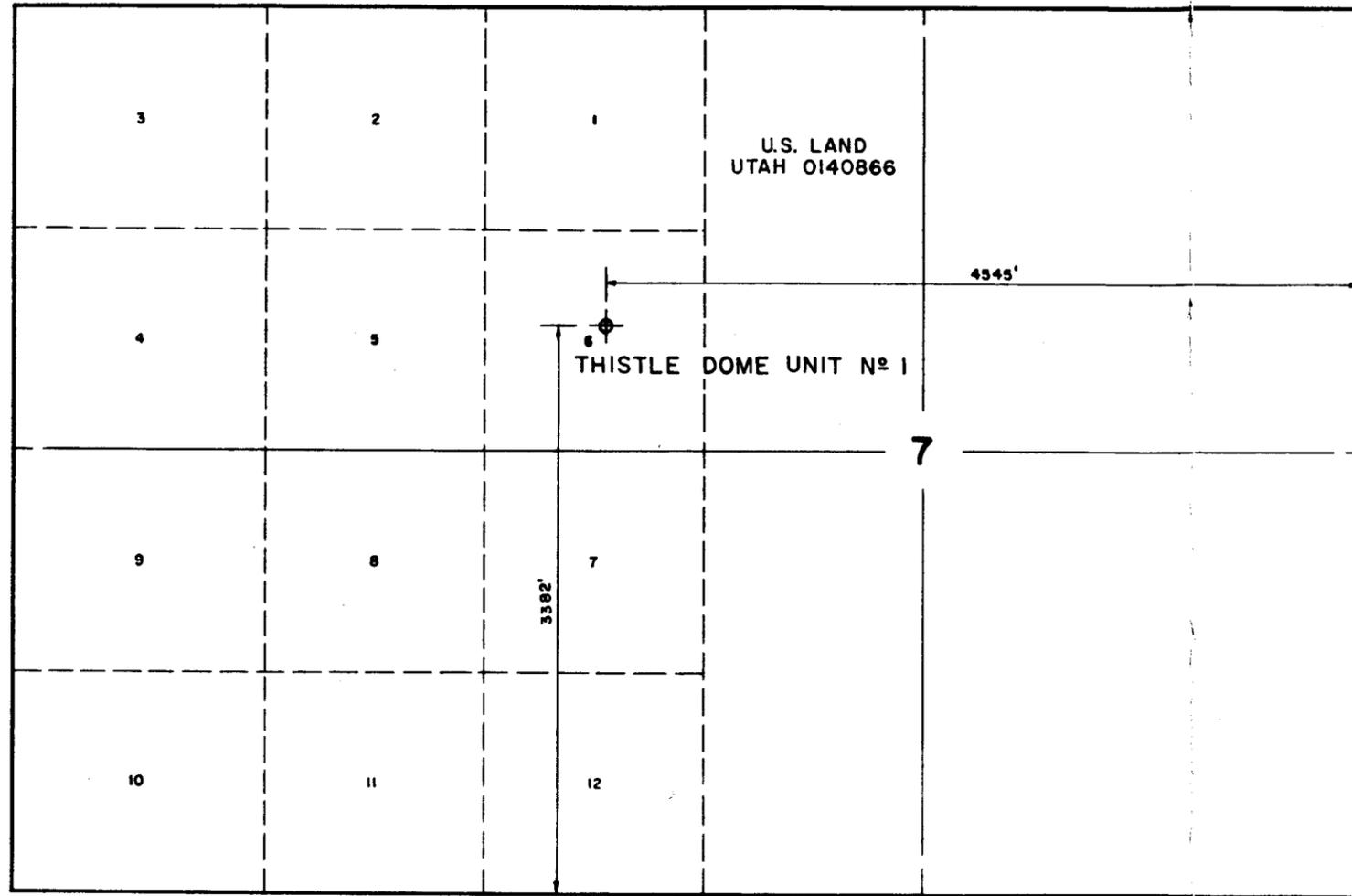
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

T.9S., R.6E.  
UTAH



**LOCATION DATA**

WELL - Thistle Dome Unit Well N° 1      FIELD - Thistle Dome

**LOCATION**

3382' From South Line  
4545' From East Line  
Lot 6, Section 7, T.9S., R.6E. S.L.B. & M.  
Utah County, Utah

**ELEVATION**

6829 ground  
By stadia levels from State of Utah Road Comm. B.M.

**SURVEYED BY**

Uintah Engineering and Land Surveying  
June 3 and 4, 1966

**DATE OF REPORT**

June 16, 1966

**REMARKS**

Well elevation natural ground

**ENGINEER'S AFFIDAVIT**

STATE OF WYOMING }  
COUNTY OF SWEETWATER } S.S.

I, K.A. Loya of Rock Springs Wyoming, hereby certify that this map was made from notes taken during an actual survey made under my direction by Uintah Engineering and Land Surveying on June 3 and 4, 1966; and that it correctly represents the location thereon with section measurements based on the official resurvey Plat of Township 9 S., Range 6 E., S.L.B. & M. Utah.

*K. A. Loya*  
Engineer

Utah Registration N° 2708

REVISIONS				MOUNTAIN FUEL SUPPLY CO. ROCK SPRINGS, WYO.	
DESCRIPTION	DATE	BY			
CHANGED LOCATION	7-5-66	MJL	WELL LOCATION <b>THISTLE DOME UNIT WELL N° 1</b> LOT 6, SEC. 7, T.9S., R.6E., S.L.B. & M. UTAH COUNTY, UTAH		
DRAWN: 6-15-66 JL		SCALE: 1" = 1000'			
CHECKED: <i>Bum</i>				DRWG. M-8701	
APPROVED: KAL				NO.	

STATE OF UTAH  
DEPARTMENTAL MEMORANDUM

From  
DEPARTMENT

DATE:

DIVISION

FILE:

To  
DEPARTMENT

SUBJECT:

DIVISION

July 11, 1966

Mountain Fuel Supply Company  
P. O. Box 1129  
Rock Springs, Wyoming 82901

Re: Well No. Thistle Dome Unit #1,  
Sec. 7, T. 9 S., R. 6 E.,  
Utah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer  
HOME: 277-2890 - Salt Lake City, Utah  
OFFICE: 328-5771 - 328-5772 - 328-5773

This approval terminates within 90 days if the well has not been spudded-in within said period. Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly accessible near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

GLENN B. FRIGHT  
EXECUTIVE DIRECTOR

CBF:ah

ccj Rodney Smith, District Engineer  
U. S. Geological Survey  
Salt Lake City, Utah

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER Thistle Dome  
UNIT .....

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Utah Field Thistle Dome

The following is a correct report of operations and production (including drilling and producing wells) for the month of AUG - 1966, 19.....

Agent's address P.O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY  
SALT LAKE CITY, UTAH 84111 Signed J. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

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)
Lot 6	7	9S	6E	1						Spudded 8-30-66 Drilling 5'

Utah 0140866 J.M. Dunbar

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold;

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

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN ACATE<sup>\*</sup>  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

7-9S-6E., SLB&M

12. COUNTY OR PARISH

Utah

13. STATE

Utah

1.

OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)

At surface

3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO.

-

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 6829'

16.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Spudded in at 7:00 P.M. on August 30, 1966. Depth 5'.

Set conductor pipe, drilled rat hole and 5' of 7-7/8" hole.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft pz

TITLE

General Manager, Production  
and Transmission

DATE

9-1-66

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THE STATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Wildcat		7. UNIT AGREEMENT NAME Thistle Dome Unit
2. NAME OF OPERATOR Mountain Fuel Supply Company		8. FARM OR LEASE NAME Unit Well
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 3382' FSL, 4545' FEL, Lot 6 sec. 7		10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO. -		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA 7-9S-6E., SLB&M
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6829'		12. COUNTY OR PARISH Utah
		13. STATE Utah

18. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other) Supplementary history

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 367', waiting on cement. SPUDDED 8-30-66 at 7:00 P.M.

Set 10-3/4", 32.75#, H-40, ST&C surface casing at 355.30' KBM with 230 sacks of regular cement treated with 345 pounds of calcium chloride. Good returns while cementing and displacing, had 8 barrels of cement returned to surface.

18. I hereby certify that the foregoing is true and correct

SIGNED

*B. W. Craft*

TITLE

General Manager, Production  
and Transmission

DATE Sept. 7, 1966

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN THIS MANNER  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-B1424.

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Wildcat</p> <p>2. NAME OF OPERATOR Mountain Fuel Supply Company</p> <p>3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  3382' FSL, 4545' FEL, Lot 6 sec. 7</p> <p>14. PERMIT NO. -</p>	<p>5. LEASE DESIGNATION AND SERIAL NO. Utah 0140866</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Thistle Dome Unit</p> <p>8. FARM OR LEASE NAME Unit Well</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 7-9S-6E., SLB&amp;M</p> <p>12. COUNTY OR PARISH   13. STATE Utah   Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6841.00', GR 6829'</p>	

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/> Supplementary history	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 1413', waiting on cement after squeezing to control lost circulation.  
Lost circulation at 1391'.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft TITLE General Manager, Production and Transmission DATE 9-20-66

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TR. C.  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Thistle Dome Unit

8. FARM OR LEASE NAME  
Unit Well

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA  
7-9S-6E., SLB&M

12. COUNTY OR PARISH 13. STATE  
Utah Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO. -

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KB 6841.00', GR 6829'

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

16. NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <input checked="" type="checkbox"/>	

(Other) \_\_\_\_\_

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*  
Depth 1819', tripping.

18. I hereby certify that the foregoing is true and correct  
SIGNED B.W. Craft TITLE General Manager, Production and Transmission DATE Sept. 26, 1966

(This space for Federal or State office use)  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER **Thistle Dome** .....  
UNIT .....

20089

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Utah Field Thistle Dome

The following is a correct report of operations and production (including drilling and producing wells) for the month of SEP - 1966, 19.....

Agent's address P.O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY

SALT LAKE CITY, UTAH 84111 Signed J. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

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)
Lot 6	7	9S	6E	1	<b>Utah 0140866 - J.M. Durbin</b>					Spudded 8-30-66 Drilling 2246' Sept. 30, 1966

NOTE.—There were..... runs or sales of oil;..... M cu. ft. of gas sold;

**Drip Oil**

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

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

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**SUBMIT IN DUPLICATE\***  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

7-9S-6E., SLB&M

1.

OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO.

-

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 6841.00', GR 6829'

12. COUNTY OR PARISH

Utah

13. STATE

Utah

16.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 2459', drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED

*B. W. Croft*

TITLE

General Manager, Production

and Transmission

DATE

October 4, 1966

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 42-01424

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <u>Wildcat</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>Utah 0140866</u>
2. NAME OF OPERATOR <u>Mountain Fuel Supply Company</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR <u>P. O. Box 1129, Rock Springs, Wyoming 82901</u>		7. UNIT AGREEMENT NAME <u>Thistle Dome Unit</u>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) <u>At surface</u>		8. FARM OR LEASE NAME <u>Unit Well</u>
14. PERMIT NO. <u>-</u>		9. WELL NO. <u>1</u>
15. ELEVATIONS (Show whether DF, RT, CR, etc.) <u>KB 6841.00' GR 6829'</u>		10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>
<u>3382' FSL, 4545' FEL, Lot 6 sec. 7</u>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>7-9S-6E SLB&amp;M</u>
		12. COUNTY OR PARISH 13. STATE <u>Utah Utah</u>

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 2970', drilling.

18. I hereby certify that the foregoing is true and correct  
 SIGNED B. W. Coft TITLE General Manager, Production and Transmission DATE October 10, 1966

(This space for Federal or State office use)  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

7-9S-6E., SLB&M

12. COUNTY OR PARISH 13. STATE

Utah

Utah

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO.

--

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 6841.00', GR 6829'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

X

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 3801', drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED

*B.W. Craft*

TITLE

General Manager, Production and Transmission

DATE

Oct. 17, 1966

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTED OR TRIBE NAME

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA

7-9S-6E., SLB&M

12. COUNTY OR PARISH 13. STATE

Utah

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO. - 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KB 6841.00', GR 6829'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other) Suspend operations

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 4000'.

We would like your permission to suspend operations at the subject well. We plan to leave the well full of 9.3 ppg mud and install a 10" series 900 blank flange on top of the 10" series 900 casing flange. We believe that the mud weight is sufficient to prevent any significant migration of formation fluids.

We plan to re-enter this well and deepen or plug and abandon in 120 days or in any case not to exceed 6 months.

Verbal approval was granted by Mr. C. B. Feight of the Utah Oil and Gas Conservation Commission and Mr. R. A. Smith of the U. S. G. S. in a telephone conversation with Mr. R. G. Myers on October 18, 1966.

APPROVED BY UTAH OIL AND GAS CONSERVATION COMMISSION

DATE: 10-18-66 by Paul W. Burchell  
Chief Petroleum Engineer

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft

TITLE General Manager, Production and Transmission

DATE Oct. 19, 1966

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side  
On April 4, 1967 - Hang verbal approval to Mr. George Pappas (SLC) to extend above time limit to August, 1967 - PWB

Thistle Dome Unit Well No. 1

*Handwritten initials*

October 8, 1966:

Depth 2742', drilled 83' in 19½ hours, 39 days, Drilling. ~~XX~~ pump 650, table 90, weight on bit 5 tons, mud wt. 9.1, vis 39, sand content 1/4%, w/1 12, f/c 2/32, ph 7, 12% LCM solids 7%. Bit No. 32 7-7/8" TC6JS cut 40' from 2659' to 2699' in 11¼ hours, Bit No. 33 7-7/8" OWC cut 43' from 2699' to 2742' in 8¼ hours. Drilling time 19½ hours, lost 4½ hours -- 1½ hours surveys, 3 hours trip. Surveys: 2690' 5¼°, 2720' ~~5~~ 5°, No mud lost in the last 24 hours.

October 9, 1966:

Depth 2847', drilled 105' in 19¼ hours, 40 days, drilling. pump 700, table 75, weight on bit 15 tons, mud wt. 9.2, vis. 44, sand content ¼%, w/1 10, 7% LCM, f/c 2/32, ph 9.5, oil 0%, solids 8%, bit No. 33 7-7/8" OWC cut 60' from 2742' to 2802' in 8-3/4 hours, Bit No. 34 7-7/8" OWC cut 45' from 2802' to 2847' in 10½ hours, surveys: 2751' ~~XXXX~~ 4-3/4°, 2782' 4½°, 2845' 4°, Drilling time 19¼ hours, lost time 4-3/4 hours -- 1½ hours surveys, 3 hours trip, ¼ hour repair pump.

October 10, 1966:

Depth 2970', drilled 123' in 17 hours, 41 days drilling. pump 700 table 75, weight on bit 13 tons, mud wt. 9.2, vis. 39 sand content ¼%, w/1 9, f/c 2/32, ph 9.5, oil 0%, solids 8%, bit No. 34 7-7/8" OWC cut 46' from 2847' to 2893' in 7½ hours, bit No. 35 7-7/8" T-2 cut 77' from 2893' to 2970' in 9½ hours, surveys 2908' 4°, 2939' 4°, drilling time 17 hours, lost time 7 hours -- 2½ hours trip, 1 hour surveys, 2-3/4 hours trip for survey. Instrument line broke, 3/4 hour work on engine clutch, now drilling with one engine, have new clutch ordered, no mud lost.

October 11, 1966:

Depth 3150', drilled 180' in 19½ hours, 42 days, drilling. Pump ~~XX~~ 750, table 75, ~~XXXXXX~~ weight on bit 15 tons, mud wt. 9.3, vis. 39, sand content ¼%, w/1 12, f/c 2/32, ph 9, oil 0%, solids 8%, Bit No. 35 7-7/8" T-2 cut 88' from 2970' to 3058' in 10½ hours, Bit No. 36 7-7/8" SV2 cut 92' from 3058' to 3150' in 9 hours. Surveys 3000' 3-3/4°, 3058' ~~XX~~ 3¼°. Drilling time 19½ hours, lost time 4½ hours -- 3/4 hour surveys, ½ hour install engine clutch, ½ clean shale pit, 2-3/4 hours trip. No mud lost.

October 12, 1966:

Depth 3304', drilled 154' in 16-3/4 hours, 43 days, drilling. Pump 775, table 75, weight on bit 15 tons, mud wt. 9, vis. 45, sand content ¼%, w/1 8, f/c 2/32, 15% LCM ph 9, oil 0%, solids 7%, bit No. 36 7-7/8" OWV cut 76' from 3150' to 3226' in 7½ hours, bit No. 37 7-7/8" OWVJ cut 78' from 3226' to 3304' in 9¼ hours, surveys: 3155' 3½° 3278' 2-3/4", drilling time 16-3/4 hours, lost 7-1/4 hours -- 6 hours lost circulation at 3226', 300 bbls. poured out of hole, mixed mud and lost circulation material, changed bit, 1¼ hours ~~XXXX~~ surveys, have not lost any mud since 3226'.

October 13, 1966:

Depth 3429', drilled 125' in 19¼ hours, 44 days, drilling. Pump 700, table 75, weight on bit 15 tons, mud wt. 9.1, vis. 42, sand content ½%, w/1 5.8, f/c 2/32, 12% LCM, ph 9.5, oil 0%, solids 6%, Bit No. 37 7-7/8" OWVJ cut 54' from 3304' to 3358' in 8¼ hours, Bit No. 38 7-7/8" OWVJ cut 71' from 3358' to 3429' in 11 hours. Survey 3358' 2½°. Drilling time 19¼ hours, lost time 4-3/4 hours -- ¼ survey, 4½ hours trip, measure out of hole, no correction.

October 1, 1966:

Depth 2246', 208', 42 days, pump 600, table 75, wt on bit 18 tons, mud wt. 9.3, vis. 43, sand content 0%, w/l 6, f/c 2/32, ph 9, oil 0%, solids 6%, bit no. 25 7-7/8" OWC cut 145' from 2038' to 2183' in 14½ hours, bit no. 26 7-7/8" OWV cut 63' from 2183' to 2246' in 5 hours, surveys 2060' 1¼°, 2150' 3/4°, drilling time 19½ hours, lost time 4½ hours-- 3 trips; ½ circulate samples at 2079'; 1 surveys, no mud lost last 24 hours, no lost circulation material in mud. Drilling.

October 2, 1966:

Depth 2388', 142', 33 days, pump 650, table 150, wt on bit 3-4 tons, mud wt 9.3, vis. 47, sand content 3/4%, w/l 6, f/c 2/32, ph 9, oil 0%, solids 8%, bit no. 16 RR 7-7/8" OWV cut 107' from 2246' to 2353' in 9½ hours, bit no. 26 7-7/8" OSCLG cut 35' from 2353' to 2388' in 8½ hours, surveys 2322' 2-3/4°, 2352' 3-3/4°, drilling time 18 hours, lost time 6 hours-- 1 surveys; ½ clean shale tank; 4½ trip, stand back 10 drill collars, pick up 10 joints drill pipe, no mud lost. Drilling.

October 3, 1966:

Depth 2426', 38', 34 days, pump 500, table 150, wt on bit 2-7 tons, mud wt. 8.9, vis. 48, sand content 0%, w/l 6, f/c 2/32, ph 8.5, oil 0%, solids 7%, 30% LCM, bit no. 26 7-7/8" OSCLG cut 18' from 2388' to 2406' in 7¼ hours, bit no. 27 7-7/8" OWV cut 20' from 2406' to 2426' in 10¼ hours, survey 2402' 4¼°, drilling time 17½ hours, lost time 6½ hours-- 4 lost 350 bbls mud at 2404', mix mud & LCM, have not lost any mud since that time; ½ survey; 2 trip for bit, have stabilizer and 2 cones bits ordered, had formation change at 2404', now drilling in sand. Survey & trip.

October 4, 1966:

Depth 2459', 33', 35 days, pump 550, table 70, wt on bit 12 tons, mud 8.8, vis. 40, sand content 3/4%, w/l 7, 18% LCM, f/c 2/32, ph 8, oil 0%, solids 7%, bit no. 23 RR 7-7/8" RG7XJ cut 33' from 2426' to 2459' in 18-3/4 hours, surveys 2426' 3½°, 2439' 3-3/4°, drilling time 18-3/4 hours, lost time 5¼ hours-- 4¼ trip; 1 surveys, no mud lost last 24 hours, drilling in hard white sand and red siltstone. Drilling.

October 5, 1966:

Depth 2538', 79', 36 days, pump 600, table 100, wt on bit 7-3 tons, mud wt. 9, vis. 44, sand content 3/4%, w/l 7, f/c 2/32, ph 9, oil 0%, solids 8%, 12% LCM, bit no. 23 RR 7-7/8" RG7XJ cut 7' from 2459' to 2466' in 3½ hours, bit no. 28 7-7/8" YM cut 72' from 2466' to 2538' in 14-3/4 hours, surveys 2466' 3-3/4°, 2508' 4½°, 2538' 4-3/4°, drilling time 18¼ hours, lost time 5-3/4 hours-- 1½ surveys; 1 cut drilling line; 3¼ trips; no mud lost last 24 hours. Tripping.

October 6, 1966:

Depth 2623', 85', 37 days, pump 650, table 150, wt on bit 2-3 tons, mud wt 8.9, vis. 43, sand content 3/4%, w/l 6, f/c 2/32, ph 9, oil 0%, solids 7%, 10% LCM, bit no. 29 7-7/8" LWL cut 58' from 2538' to 2596' in 9 hours, bit no. 30 7-7/8" LWL cut 27' from 2596' to 2623' in 7½ hours, surveys 2558' 5°, 2588' 5°, 2620' 5¼°, drilling time 16½ hours, lost time 7½ hours-- 1 surveys; ½ clean shale pit; 6 trip. Drilling.

October 7, 1966:

Depth 2659', 36', 38 days, pump 550, table 70, wt on bit 10 tons, mud wt. 9.2, vis. 40, sand content ¼%, w/l 10, f/c 2/32, ph 8, oil 0%, solids 8%, 8% LCM, bit no. 30 7-7/8" LWL cut 4' from 2623' to 2627' in ~~XXXXXXXX~~ 1½ hours; bit no. 31 7-7/8" YMGJ cut 18' from 2627' to 2645' in 7½ hours, bit no. 32 7-7/8" TC6JS cut 14' from 2645' to 2659' in 7¼ hours, drilling time 16¼ hours, lost time 7-3/4 hours-- ½ survey; ½ ream 50' with bit no. 32 6-3/4 two trips; no mud lost last 24 hours. Survey.

September 23, 1966:

Depth 1488', 73', 24 days, pump 200, table 50, wt on bit 11 tons, mud wt 9, vis. 50, sand content 0%, w/l 6.4, f/c 1/32, ph 11.5, 48% LCM, solids 5%, bit no. 17 7-7/8" EMI cut 48' from 1415' to 1463' in 6 hours, bit no. 18 7-7/8" OWCJ cut 25' from 1463' to 1488' in 5 hours, survey 1440' 1 1/2°, drilling time 11 hours, lost time 13 hours--4 1/2 drill out squeeze #3 from 1225' to 1415' with full returns, lost 35% returns at 1435'; 3 1/2 mix mud & LCM; 4 trip; 1/4 survey; 3/4 ream from 1433' to 1463' with bit #18, bit #17 completely worn out, no mud lost since 1435'. Drilling.

September 24, 1966:

Depth 1555', 67', 25 days, pump 200, table 60, wt on bit 6 tons, mud wt 8.9, vis. 37, sand content 0%, w/l ~~6.8~~ 6.8, f/c 1/32, oh 11, oil 0%, solids 4%, 50% LCM, bit no. 18 7-7/8" OWCJ cut 20' from 1488' to 1508' in 4 hours, bit no. 19 7-7/8" L4J cut 32' from 1508' to 1540' in 7-3/4 hours, bit no. 20 7-7/8" ~~RBTC 6~~ RBTC 6 cut 15' from 1540' to 1555' in 5 hours, survey 1490' 1-3/4°, drilling time 16-3/4 hours, lost time 7 1/4 hours--1/4 survey; 1/4 oil rig; 6-3/4 trips and pick up 8 drill collars, both bits worn out, no mud lost last 24 hours. Drilling.

September 25, 1966:

Depth 1650', 95', 26 days, pump 400, table 45, wt on bit 16 tons, mud wt. 9.2, vis. 64, sand content 0%, w/l 4, f/c 1/32, 42% LCM, ph 10.5, solids 7%, bit no. 20 7-7/8" RBTC6J cut 44' from 1555' to 1599' in 12-3/4 hours, bit no. 21 7-7/8" TC6J cut 51' from 1599' to 1650' in 6 1/4 hours, surveys 1563' 1 1/4°, 1635' 3/4°, drilling time 19 hours, lost time 5 hours--1/2 survey; 3 1/2 trip pick up shock sub, no mud lost last 24 hours. Drilling.

September 26, 1966:

Depth 1819', 169', 27 days, pump 450, table 45, wt on bit 16 tons, mud wt. 9.5, vis. 45, sand content .75%, w/l 3.4, f/c 1/32, ph 10.5, oil 0%, solids 8.7%, bit no. 21 7-7/8" TC6JS cut 169' from 1650' to 1819' in 21 1/2 hours, surveys 1695' 1/2°, 1775' 1/2°, lost time 2 1/2 hours--1 1/4 surveys; 1/2 rig service; 1/4 pump repairs; 1/2 trip for bit, no mud loss, tripping.

September 27, 1966:

Depth 1939', 120', 28 days, pump 450, table 45, wt on bit 16 tons, mud wt 9.2, vis. 43, sand content 3/4%, w/l 6, f/c 2/32, ph 9, solids 6%, 32% LCM, bit no. 22 7-7/8" RG7XJ cut 120' from 1819' to 1939' in 17-3/4 hours, survey 1875' 1°, lost time 6 1/4 hours--3/4 survey; 3 trip; 1 clean shale tank; 1 1/2 ream from 1700' to 1819', bit no. 21 worn out of gauge 1/4". Drilling.

September 28, 1966:

Depth 1995', 56', 29 days, pump 450, table 70, wt on bit 12 tons, mud 9.2, vis. 35, sand content 1/2%, w/l 6.4, f/c 2/32, ph 8; oil 0%, solids 6%, LCM 55%, bit no. 22 7-7/8" RG7XJ cut 19' from 1939' to 1958' in 5 hours, bit no. 23 7-7/8" RG7XJ cut 12' from 1958' to 1970' in 5 1/2 hours, bit no. 24 7-7/8" L4HJ cut 25' from 1970' to 1995' in 5-3/4 hours, drilling time 16 1/4 hours, lost time 7-3/4 hours--1 survey; 6-3/4 trips, no mud lost. Drilling.

September 29, 1966:

Depth 2028', 33', 30 days, pump 450, table 70, wt on bit 11 tons, bit no. 24 7-7/8" L4HJ cut 33' from 1995' to 2028' in 8 hours, lost time 16 hours--2 pull out of hole, closed BOP; 14 repairs. Shut down for repairs on transmission.

September 30, 1966:

Depth 2038', 10', 41 days, pump 400, table 75, wt on bit 14 tons, mud wt 9.2, vis. 38, sand content 0%, w/l 6.4, f/c 3/32, ph 8, oil 0%, solids 0%, 40% LCM, bit no. 25 7-7/8" OWC cut 10' from 2028' to 2038' in 1 1/2 hours, lost time 22 1/2 hours--20 repair rig; 2 1/2 trip in with bit no. 25, hit bridge at 1000', lost approximately 30 barrels mud at 2028', have not lost any mud since. Drilling.

September 18, 1966:

Depth 1403', 0', 20 days, vis. 55, 45% LCM, lost time 24 hours--24 mix mud & LCM, total 1800 bbls last 24 hours, after filling hole with LCM from surface went in hole hit bridge at 250', drill to 270', lost all returns, went on to bottom to check found no fill up. Pulled back to 300' mixed and pumped in 300 bbls check fluid level at 60', left pipe at 300', pumped in 2nd 300 bbls fluid at 40', pumped in 3rd 300 bbls fluid at 30', pumped in 4th 300 bbls fluid at 20', pumped in 5th 300 bbls returned 8 bbls clear fresh water to surface, pumped in 6th 300 bbls returned 20 bbls clear fresh water to surface, they get about 20% as much water out as to the amount of mud pumped in. Mix mud & LCM.

September 19, 1966:

Depth 1413', 10', 20 days, pump 200, table 75, wt on bit 10 tons, vis 60, 65% LCM, bit no. 17 7-7/8" EM cut 10' from 1403' to 1413' in 1 hour, lost time 23 hours-- mix mud & LCM, total of 1500 bbls last 24 hours, grand total of 5775 bbls pumped in 1st pit of 300 bbls with bit at 800' fluid got to within 10' of surface. With bit at 1060' pumped in 2nd 300 bbls got 25% returns after 150 bbls were pumped in. The first 40 bbls were clear fresh water then the mud and LCM started to return, circulated for 30 minutes before running out of mud, pumped in 3rd 300 bbls with pipe at 1060' got clear fresh water to surface after 70 bbls mud was pumped. Circulate out 40 bbls water then mud & LCM, started were able to circulate 1 hour with 25% returns, pumped in 4th pit of mud while drilling with pump, run very slow mud got to within 10' of the surface, pumped in 5th pit which drilling with pump running very slow mud come within 10' of surface, no hole trouble, no fill up. They pull the bit into the surface casing while mixing mud.

September 20, 1966:

Depth 1413', 0', 21 days, lost time 24 hours--3 mix mud & LCM; 12 wait on Halliburton and squeeze material; 1 1/2 rig up to squeeze lost zone, ran drill pipe open ended to 335', pumper 35 bbls mud down annulus and 2 35 bbls mixture down drill pipe, hole filled, closed BOP, squeeze 24 bbls slurry into formation, maximum pressure of 700# pressure built slow from 600 to 700#, shut in pressure of 500#, held pressure for 15 minutes then opened BOP and pulled out of hole, they ran a 10 bbl spacer of #1 diesel ahead of squeeze job, the squeeze job consisted of 50 sacks gel 50 sacks cement and 1500 gallons #1 diesel. Finished squeeze at 11:00 PM 9-19-66, will drill out at 11:00 AM 9-20-66. Wait on squeeze.

September 21, 1966:

Depth 1413', 0', 22 days, pump 300, table 65, wt. on bit 5 tons, vis 50, 30% LCM, bit no. 17 7-7/8" EMI (drill out squeeze), lost time 24 hours--3 1/2 wait on squeeze No. 1 to set; 1 1/4 drill out squeeze no. 1, hit first bridge at 375', hit soft bridges to 580', from 580' to 630' hit hard bridges, drill out with 10,000# on bit, had soft bridges to 1043', drilled hard to 1048' lost returns at 1048', pulled out of hole stood back drill collars, went in hole open ended to 1000', fluid level at 360' KBM, pumped 65 bbls mud down annulus and 84 bbls slurry down drill pipe, hole did not fill up, pulled out of hole, waited; 5-3/4 filled hole with 30 bbls mud, squeeze No. 2: 5 bbls #1 diesel ahead 85 sacks gel 85 sacks cement mixed with 2710 gallons #1 diesel, will start in hole to drill out at 11 AM.

September 22, 1966:

Depth 1415', 2', 23 days, pump 300, table 75, wt on bit 10 tons, vis. 55, 32% LCM, bit no. 17 7-7/8" EMI cut 2' from 1413' to 1415' in 1/4 hour, lost time 24-3/4 hours--4 wait on plug No. 2 to set; 4 1/4 drill out squeeze #2 from 980' to 1413', lost 25% returns at 1353' mixed 55 sacks sawdust and drilled to 1415'; 3/4 trip out; 2 mix mud ; 1 trip in to 1289' open ended check fluid level at 245'; 3/4 run squeeze #3; 1 trip out; 10 wait on plug #3. Plug #3, 7 bbls #1 diesel ahead 1612 gallons #1 diesel 63 sacks gel 63 sacks cement, 55 bbls mud down annulus, 63 bbls slurry. After pumping 27 barrels mud down annulus and 27 barrels slurry down drill pipe, hole filled. Closed BOP and slowly built pressure to 500#, after shutting down pumping, the pressure stayed at 500#, hole still full. Wait on squeeze #3 to set.

September 14, 1966:

Depth 1100', 189', 15 days, air 240 psi, table 60 wt. on bit 10 tons, bit no. 14 7-7/8" PRGLXJ cut 76' from 911' to 987' in 10 hours, bit no. 15 7-7/8" PRGLXJ cut 113' from 987' to 1100' in 11 hours, surveys 1021' 2°, 1070' 2°, drilling time 21 hours, lost time 3 hours, --2 trip and service hammer; 1 surveys and rig service. Injecting 8 barrels water per hour, no soap, well making 200 barrels of water per hour, circulating air 800 Mcf, no gas. Drilling

September 15, 1966:

Depth 1384', 284', 16 days, air 410 psi, table 60, wt. on bit 10 tons, bit no. 15 7-7/8" PRGLXJ cut 284' from 1100' to 1384' in 23 hours, surveys 1176' 1½°, 1290' 1-3/4°, lost time 1 hour--½ surveys; ½ blow hole at 1384' after hitting additional water, air pressure went from 320# to 410#. Well making 300 barrels water per hour, injecting 8 barrels water no soap, they are going to mix 2 qts of soap with 8 bbls water then inject 4 bbls per hour, 800 Mcf circulating air. Drilling.

KB 6841.00'

Casing Report

1 NSCO type B regular duty casing flange tapped 10-3/4" 8rd  
11 jts. 10-3/4", 32.75#, H-40, 8rd, ST&C  
1 Larkin 10-3/4" guide shoe

	<u>Net</u>	<u>Gross</u>
	1.50'	1.50'
	339.09'	341.61'
	0.94'	0.94'
	<u>341.53'</u>	<u>344.05'</u>

The above ~~XX~~ casing was landed at 355.30' which is 13.27' below KB and 1.77' below ground level. The top and bottom of all collars were spot welded and top of shoe welded in the field. The casing was circulated 15 minutes with rig pump and cement was preceded with ~~XX~~ 10 barrels of water and bottom plug. Cemented with 230 sacks of regular cement treated with 325# calcium chloride. Displaced with top plug and 36 bbls of water leaving 10' of cement in the 10-3/4" OD casing. Returned approx. 8 bbls of slurry to sump. Casing circulated freely and full returns during all above operations. Plug down and cement in place 9-7-66, 7:30 AM. Left on rack:  
2 jts. 10-3/4", 32.75#, 8rd, ST&C H-40 casing

63.33'      63.89'

September 16, 1966:

Depth 1391', 7', 17 days, ~~XXX~~ air 420 psi, table 60, wt. on bit 10 tons, vis. 50, 40% LCM, bit no. 15, 7-7/8" PRGLXJ cut 7' from 1384' to 1391' in 3/4 hour, lost time 23¼ hours--2-3/4 trip out lay down hammer check water level with Halco line at 321'; 4½ remove air equipment and condition mud; 3¼ build drilling nipple; 1 pick up 4 drill collars, trip in to 1391'; 1 pump in 275 bbls mud no returns, trip out, drill pipe indicated fluid at 300'; 10-3/4 mix mud and LCM, mixed total 875 bbls with no returns, after the last pit of mud was pumped in the fluid level was at 260'. Mixing mud and LCM.

September 17, 1966:

Depth 1403', 12', 18 days, pump 300, table 75, wt on bit 6 tons, vis 60, 55% LCM, drilling time ½ hours, lost time 23½ hours, bit no. 16 7-7/8" OWV cut 12' from 1391' to 1403' in ½ hours, lost time--23½ mix mud & LCM, pumped total 1800 bbls last 24 hours, pumped in 600 bbls from 900', 900 bbls from 1400', 300 bbls from surface after the ~~XXXXX~~ mud was pumped from 900 and 1400' the fluid level was at 300', when the mud was pumped in from the surface they dropped 10 sacks walnut hulls, 50 burlap bags, 35 sacks sawdust, 10 sacks plug it, 2 sacks cotton seed hulls, hole now standing full, now mixing mud, will try to drill when this pit of mud & LCM is mixed.

Wistle Dome Unit Well No. 1

September 7, 1966:

Depth 367', 54', 8 days, pump 250, table 175, wt. on bit 2 tons, mud wt. 9.4, vis 39, sand content  $\frac{1}{4}\%$ , w/1 25, f/c 2/32, w/1 -, solids 9%, bit no. 4 RR 9"DT cut 16' from 313' to 329' in  $4\frac{1}{2}$  hours, bit no. 9 9"OWV cut 38' from 329' to 367' in  $4\frac{1}{2}$  hours, bit no. 10 13- $\frac{3}{4}$ " hole opener cut 54' from 313' to 367' in  $6\frac{1}{4}$  hours, survey 367'  $1\frac{1}{2}^\circ$ , drilling time  $15\frac{1}{4}$  hours, lost time 8- $\frac{3}{4}$  hours-- $1\frac{1}{2}$  work on conductor pipe, stop leak; 2- $\frac{3}{4}$  trip and survey;  $\frac{3}{4}$  circulate; 1 trip out lay down reaming tools; 2 rig up and run surface casing; 1 circulate and cement casing run 11 joints 10- $\frac{3}{4}$ ", 32.75#, H-40, ST&C casing landed at 355.30'KBM cemented with 230 sacks regular cement with 345# calcium chloride 8 barrels cement returned to surface, plug down 7:30 AM 9-7-66, had full returns while cementing and displacing.

September 8, 1966:

Depth 367', 0', 9 days, lost time 24 hours--23 $\frac{1}{2}$  wait on cement, rig up to air drill, nipple up blowout preventers, trip in with 9" bit, pressure test double gate BOP and casing to 1000 psi, OK, blow hole dry;  $\frac{1}{2}$  drill cement and plugs, cement at 341'.

September 9, 1966:

Depth 452', 85', 10 days, ~~125~~ 125 psi air, table 55, wt. on bit 5 tons, bit no. 11 7-7/8" PRGLXJ cut 63' from 367' to 430' in  $9\frac{1}{2}$  hours, bit no. 12 7-7/8" ~~PX7RJ~~ PX7RJ cut 22' from 430' to 452' in 3 hours, surveys: 387'  $1\frac{1}{2}^\circ$ , 404'  $1\frac{1}{4}^\circ$ , drilling time  $12\frac{1}{2}$  hours, lost time  $11\frac{1}{2}$  hours-- $3\frac{1}{2}$  blow and try to dry up hole, inject soap, hole never did dry up; 1 trip pick up hammer; 2 trip and repair hammer; 2 trip;  $\frac{1}{2}$  surveys;  $\frac{1}{2}$  repair Kelly drive, did not have any returns from 367' to 405', started making  $\frac{3}{4}$ " stream of water at 405', injecting  $\frac{1}{2}$  bbl fluid per hour, mixture 1 qt. soap to 8 bbls water, no hole trouble, circulating 800 Mcf of air per day, no gas. Drilling.

September 10, 1966:

Depth 560', 108', 11 days, ~~150~~ 150 psi air, table 60, wt on bit 2 tons, bit no. 12 7-7/8" PX7RJ cut 67' from 452' to 519' in  $12\text{-}\frac{3}{4}$  hours, bit no. 11 RR 7-7/8" PRGLXJ cut 41' from 519' to 560' in  $5\frac{1}{2}$  hours, surveys 467'  $1\text{-}\frac{3}{4}^\circ$ , 498'  $1\text{-}\frac{3}{4}^\circ$ , 517'  $1\text{-}\frac{3}{4}^\circ$ , 558'  $1\text{-}\frac{3}{4}^\circ$ , drilling time  $18\frac{1}{4}$  hours, lost time 5- $\frac{3}{4}$  hours--2- $\frac{3}{4}$  repair swivel and rotating head; 1 surveys; 2 trip injecting 6 to 8 bbls per hour mixing 1 pint soap to 8 bbls water making 1" stream water, no hole trouble, 800 Mcf circulating air, no gas. Drilling.

September 11, 1966:

Depth 715', 155', 12 days, 160 psi air, table 60, wt. on bit 2-4 tons, bit no. 11 RR 7-7/8" PRGLXJ cut 155' from 560' to 715' in 22 hours, surveys 589'  $1\frac{1}{2}^\circ$ , 620'  $1\text{-}\frac{3}{4}^\circ$ , 652'  $1\text{-}\frac{3}{4}^\circ$ , 674'  $2^\circ$ , 715'  $2^\circ$ , lost time 2 hours-- $1\frac{1}{2}$  surveys;  $\frac{1}{2}$  oil rig, making 2" stream of water, injecting 6 to 8 bbls fluid per hour, mix 1 qt. soap to 8 bbls water, have had steady water increase since 670', 800 Mcf circulating air, no gas. Drilling.

September 12, 1966:

Depth 811', 96', 13 days, 195 psi air, table 60, wt. on bit  $2\frac{1}{2}$  tons, bit no. 11 RR 7-7/8" PRGLXJ cut 10' from 715' to 725' in 2- $\frac{3}{4}$  hours, bit no. 13 7-7/8" TC6AJ cut 86' from 725' to 811' in 18 hours, survey 774'  $2^\circ$ , 795'  $2\frac{1}{4}^\circ$ , drilling time 20- $\frac{3}{4}$  hours, lost time  $3\frac{1}{4}$  hours--1 surveys; 2 trip check hammer;  $\frac{1}{4}$  oil rig mixing 1 qt. soap with 8 bbls water, injecting 8 bbls water per hour, well making 70 bbls water per hour, 800 Mcf of circulating air, no gas. Drilling.

September 13, 1966:

Depth 911', 100', 14 days, air 185 psi, table 60, wt on bit 8 tons, bit no. 13 7-7/8" TC6AJ cut 1' from 811' to 812' in  $\frac{1}{2}$  hour, bit no. 14 7-7/8" PRGLXJ cut 99' from 812' to 911' in 20- $\frac{3}{4}$  hours, surveys 835'  $2^\circ$ , 866'  $2^\circ$ , 898'  $2^\circ$ , drilling time  $21\frac{1}{4}$  hours, lost time 2- $\frac{3}{4}$  hours-- $\frac{3}{4}$  survey; 2 trip and service hammer, well making 75 bbls water per hour water tastes fresh, injecting 8 bbls water per hour no soap, 800 Mcf circulating air, no gas. Drilling.

Thistle Dome Unit Well No.  
MFSCO, Operator  
Utah 0140866  
3382' FSL, 4545' FEL  
Lot 6 7-9S-6E., SLB&M  
Utah County, Utah  
Ground elevation 6829'

Willard Pease Drilling Company, contractor.

SPUDED 7:00 P.M., 8-30-66.

August 31, 1966:

Depth 5', 5', 1 day, drilling time  $\frac{1}{2}$  hour, lost time  $23\frac{1}{2}$  hours--made 5' of 7-7/8" hole, then shut down until daylight this morning.

September 1, 1966:

Depth 5', 0', 2 days, have conductor pipe set, drilled rat hole, have had hard rain since Tuesday night, roads are almost impassable, have cat at location to pull in equipment.

September 2, 1966:

Depth 95', 90', 3 days, pump 300, table 200, wt. on bit 3 tons, mud wt. 8.8, vis. 45, bit no. 2 9" DT cut 95' from 0' to 95' in  $8\frac{1}{4}$  hours, survey 70'  $\frac{1}{2}^{\circ}$ , drilling time  $8\frac{1}{4}$  hours, lost time  $15-3/4$  hours--8 wait on air compressor;  $3\frac{1}{2}$  rig up and start compressor;  $1\frac{1}{2}$  blow well at 42';  $2\frac{1}{2}$  change from air to mud circulate hole mix LCM;  $\frac{1}{4}$  survey, drilled to 42' with air hit water at 17' and 31' too much to drill with air, have not lost any mud. Drlg.

September 3, 1966:

Depth 219', 124', 4 days, pump 300, table 175, wt on bit 2-4 tons, mud wt. 9, vis. 43, sand content  $3/4\%$ , w/l 10.4, f/c 2/32, ph 8, oil 0%, solids 5%, bit no. 1 9" DT cut 1' from 95' to 96' in  $\frac{1}{4}$  hour, bit no. 2 9" OWV cut 61' from 96' to 157' in  $12\frac{1}{4}$  hours, bit no. 3 9" OSCLG cut 62' from 157' to 219' in  $6\frac{1}{4}$  hours, survey 90'  $3/4^{\circ}$ , 128'  $1^{\circ}$ , 157'  $3/4^{\circ}$ , 180'  $3/4^{\circ}$ , 218'  $1^{\circ}$ , drilling time  $18-3/4$  hours, lost time  $5\frac{1}{4}$  hours-- $1-3/4$  trips; 2 surveys;  $1\frac{1}{2}$  repair rig. Drilling.

September 4, 1966:

Depth 310' (9" hole), 91', 5 days, pump 300, table 200, wt. on bit 5 tons, mud wt. 9.2, vis. 46, sand content 1%, w/l 10, f/c 2/32, ph 8, oil -, solids 6%, bit no. 3 9" OSCLG cut 48' from 219' to 267' in  $10-3/4$  hours, bit no. 4 9" DT cut 43' from 267' to 310' in  $4-3/4$  hours, bit no. 5 13-3/4" hole opener cut 120' from 0' to 120' in 5 hours, surveys 240'  $1^{\circ}$ , 267'  $1^{\circ}$ , 310'  $1\frac{1}{4}^{\circ}$ , drilling time  $20\frac{1}{2}$  hours, lost time  $3\frac{1}{2}$  hours--~~XXXX~~  $\frac{1}{2}$  trip for bit #4;  $1\frac{1}{4}$  surveys;  $1\frac{1}{4}$  trip pick up 13-3/4" hole opener and shock sub, have not lost any mud last 24 hours. Reaming 9" hole to 13-3/4".

September 5, 1966:

Depth 310' (9" hole), 0', 6 days, pump 150, table 200, wt. on bit 8 tons, mud wt. 9.4, vis. 48, sand content  $3/4\%$ , w/l 10, f/c 2/32, ph 8, solids 6%, bit no. 5 13-3/4" hole opener cut 51' from 120' to 171' in  $6\frac{1}{4}$  hours, bit no. 6 13-3/4" hole opener cut 27' from 171' to 198' in 3 hours, lost time 24 hours-- $2\frac{1}{2}$  repair swivel;  $1\frac{1}{4}$  re-ream from 75' to 171';  $1\frac{1}{2}$  mud broke out around conductor also down the hole approximately 15' had circulate under the substructure shut down and ordered out Dowell with 50 sacks cement 50 sacks Cal seal with sand; 8 wait on Dowell. Wait on Dowell.

September 6, 1966:

Depth 313' (13-3/4"), 3' 7 days, pump 175, table 150, wt. on bit 10 tons, mud wt. 9.3, vis. 46, sand content  $3/4\%$ , w/l 20, f/c 2/32, ph 10, solids 7%, bit no. 6 13-3/4" hole opener cut 112' from 198' to 310' in  $10\frac{1}{2}$  hours, bit no. 7 13-3/4" OSC3 cut 3' from 310' to 313' in  $\frac{1}{4}$  hour, drilling time  $10-3/4$  hours, lost time  $13\frac{1}{4}$  hours--1 wait on Dowell;  $1\frac{1}{4}$  rig up and recement conductor, ran 1 jt.  $4\frac{1}{2}$ " drill pipe to 28' KBM. Ran 25 sack cement 25 sacks gup-seal with 15# frac sand per sack cement; 2-3/4 WOC; 1 circulate & condition mud; 1 pump repair;  $2\frac{1}{2}$  re-ream from 220' to 310' with bit #7; 3/4 clean shale pit. Cement job on conductor still holding good. Trip in with 9" bit.



**MOUNTAIN FUEL SUPPLY COMPANY**

625 CONNECTICUT AVENUE • P. O. BOX 1129 • ROCK SPRINGS, WYOMING 82901 • PHONE 307-362-5611

October 19, 1966

Mr. C. B. Feight, Executive Director  
Utah Oil and Gas Conservation Commission  
348 East South Temple  
Suite 301  
Salt Lake City, Utah

Dear Mr. Feight:

This letter will confirm our telephone conversation and your verbal approval October 18, 1966, concerning suspending drilling operations on Mountain Fuel Supply Company's Thistle Dome Unit Well No. 1, located in Section 7, T 9S, R 6E, S.L.B.&M., Utah County, Utah. A notice of intention to suspend operations will also be sent to you.

Mountain Fuel Supply Company plans to suspend operations on this well and will leave the wellbore full of drilling mud weighing 9.3 ppg. We believe the hydrostatic pressure exerted by the drilling mud will prevent any significant migration of formation fluids.

A string of 10-3/4-inch O.D., 32.75-pound, H-40, 8 round thread ST&C surface casing was landed at 355.30 feet KBM with cement returned to the surface, and a 10-inch Series 900 casing flange tapped 10-3/4-inch O.D., 8 round thread was installed. We plan to close the well in by installing a 10-inch Series 900 blank flange on top of the casing flange. A 2-inch valve, installed on the side outlet of the casing flange, will allow us to relieve pressure or pump into the well, if necessary.

We will re-enter the well to deepen or to plug and abandon within 120 day, or in any case not to exceed six months, after suspending operations.

This procedure has also been approved by Mr. R. A. Smith, District Engineer, United States Geological Survey.

Thank you for your cooperation.

Very truly yours,

R. G. Myers  
Chief Petroleum Engineer

RGM/srb  
cc: S. J. Fisher

Copy to Sharon 3 copies to Kathy

OK

FORM OGCC-8-X  
FILE IN QUADRUPLICATE

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
348 EAST SOUTH TEMPLE  
SUITE 301  
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Thistle Dome Unit Well #1  
Operator Mtn. Fuel Supply Co. Address S.L.C. Phone 328-8315  
Contractor Pease Drilling Address Grand Jct, Colo Phone \_\_\_\_\_  
Location Lot 6 Sec. 7 T. 9 R. 6 E Utah County, Utah.  
S

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1. <u>405'</u>	<u>930'</u>	<u>70 bbl/hr.</u>	<u>Fresh</u> ✓
2. <u>930'</u>	<u>1128'</u>	<u>200 bbl/hr.</u>	<u>Fresh</u> ✓
3. <u>1384'</u>	<u>1391'</u>	<u>300 bbl/hr.</u>	<u>Sulfur Odor</u> ✓
4.			
5.			

(Continued on reverse side if necessary)

Formation Tops: surface North Horn

Remarks:

- NOTE:
- (a) Upon diminishing supply of forms, please inform the Commission.
  - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form).
  - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLE COPY  
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.  
Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Thistle Dome Unit

8. FARM OR LEASE NAME  
Unit Well

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA  
7-9S-6E., SLB&M

12. COUNTY OR PARISH  
Utah

13. STATE  
Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO. -

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KB 6841.00', GR 6829'

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) suspend operations

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 4000', rig released October 20, 1966, operations temporarily suspended.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft

General Manager, Production  
and Transmission

DATE Oct. 31, 1966

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

October 14, 1966:

Depth 3509', drilled 80' in  $15\frac{1}{4}$  hours, 45 days, pulling core No. 1. Pump 900, table 70 weight on bit 10 tons, mud wt. ~~9.1~~ 9.1, vis. 45, sand content  $\frac{1}{2}\%$ , w/l 6, f/c 2/32 12% LCM ph 9.5, oil  $\frac{1}{2}\%$ , solids 7%, bit No. ~~38~~ 38 7-7/8 OWUJ cut 21' from 3429' to 3450' in  $4\frac{1}{2}$  hours. Bit No. 1 ~~7-13/16~~ CD cut 59' from 3450' to 3509' in  $10\text{-}3/4$  hours, surveys 3450' 3°. Drilling time  $15\frac{1}{4}$  hours, lost time  $8\text{-}3/4$  hours --  $1\frac{1}{2}$  hours circulate before pulling out to core,  $\frac{1}{4}$  survey,  $2\frac{1}{2}$  hours pull bit No. 38,  $1\frac{1}{2}$  hours pick up core bbl,  $2\frac{1}{2}$  hours trip in hole circulate before starting to core,  $\frac{1}{2}$  hour pull core No. 1.

October 15, 1966:

Depth 3620', 111', 46 days, pump 800, table 75, wt on bit 10 tons, mud wt. 9.2, vis 47, sand content  $\frac{1}{2}\%$ , 15% LCM, w/l 4.4, f/c 2/32, ph 9.5, oil 0%, solids 6%, bit no. 39 7-7/8" OWC cut 111' from 3509' to 3620' in  $16\frac{1}{4}$  hours, survey 3615' 4-3/4°, drilling time  $16\frac{1}{4}$  hours, lost time 7-3/4 hours -- 2 pull Core No. 1; 2 lay down core barrel; 3 trip in hole with bit no. 39; 3/4 survey. Core #1 cut 59', recovered 59' red & gray shale. Drilling.

October 16, 1966:

Depth 3694', 74', 47 days, pump 800, table 90, wt on bit 7 tons, mud wt. 9.2, vis. 43, sand content  $\frac{1}{2}\%$ , w/l 4.6, f/c 2/32, ph 9.5, solids 7%, bit no. 39 7-7/8" OWV cut 12' from 3920' to 3632' in  $3\frac{1}{4}$  hours, bit no. 40 7-7/8" OWV cut 62' from 3632' to 3694' in 13 hours, survey 3632' drop 4°, 3676' wire line 5-3/4°, drilling time  $16\frac{1}{4}$  hours, lost time 7-3/4 hours --  $6\frac{1}{4}$  trip; 1 surveys;  $\frac{1}{2}$  clean shale pit, no mud lost last 24 hours. Drilling very rough.

October 17, 1966:

Depth 3801', 107', 48 days, pump 800, table 75, wt on bit  $7\frac{1}{2}$  tons, mud wt. 9.2, vis. 40, sand content  $\frac{1}{2}\%$ , w/l 5.2, f/c 2/32, ph 9.5, solids 6%, 10% LCM, bit no. 40 7-7/8" OWV cut 44' from 3694' to 3738' in  $7\frac{1}{2}$  hours, bit no. 41 7-7/8" OWV cut 63' from 3738' to 3801' in 10 hours, surveys 3708' 5-3/4°, 3738'  $5\frac{1}{2}$ °, 3801' 5-3/4°, drilling time  $17\frac{1}{2}$  hours, lost time  $6\frac{1}{2}$  hours --  $4\frac{1}{2}$  trip; 2 surveys. No mud lost last 24 hours, still drilling rough.

October 18, 1966:

Depth 3917', 116', 49 days, pump 700, table 75, wt on bit  $7\frac{1}{2}$  tons, mud wt 9.2, vis. 38, sand content  $\frac{1}{2}\%$ , w/l 5.8, f/c 2/32, ph 9.5, oil 0%, solids 6%, 8% LCM, bit no. 41 7-7/8" OWV cut 86' from 3801' to 3887' in 13 hours, bit no. 42 7-7/8" OSCLG cut 30' from 3887' to 3917' in  $5\frac{1}{2}$  hours, survey 3863'  $5\frac{1}{2}$ °, drilling time  $18\frac{1}{2}$  hours, lost time  $5\frac{1}{2}$  hours --  $4\frac{1}{2}$  trip; 3/4 survey;  $\frac{1}{4}$  repair pump, no mud lost last 24 hours. Drilling.

October 19, 1966:

Depth 4000', 83', 50 days, pump 800, table 65, wt on bit 10-15 tons, mud wt. 9.3, vis. 46, sand content  $\frac{1}{2}\%$ , w/l 4.8, f/c 2/32, ph 10.5, oil 0%, 7% LCM, solids 6%, bit no. 42 7-7/8" OSCLG cut 55' from 3917' to 3972' in  $6\frac{1}{2}$  hours, bit no. 1 RR 7-13/16" CD cut 28' from 3972' to 4000' in  $4\frac{1}{2}$  hours, surveys 3924'  $5\frac{1}{4}$ °, 4000' 5°, drilling time 11 hours, lost time 13 hours -- 1 circulate; 3 pull out of hole; 1 pick up core barrel measured out made correction 3975 to 72';  $7\frac{1}{2}$  trip in;  $2\frac{1}{2}$  pull core no. 2 cut 28' recovered 28'; 1 surveys; 1 lay down core;  $1\frac{1}{2}$  rig up and log. Logging. Have received verbal approval to suspend operations for 120 days from USGS & ~~XXX~~ Oil & Gas Conservation Commission.

October 20, 1966:

Depth 4000', 0', 51 days, lost time  $21\frac{1}{2}$  hours -- 9-3/4 log;  $8\frac{1}{4}$  lay down drill pipe and collars;  $1\frac{1}{2}$  remove BOP; 2 clean mud tanks, install 10" series 900 blind flange.

RIG RELEASED at 4:30 AM 10-20-66. Operations suspended.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT Thistle Dome .....

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Utah Field Thistle Dome

The following is a correct report of operations and production (including drilling and producing wells) for the month of OCT - 1966, 19.....

Agent's address P.O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY

SALT LAKE CITY, UTAH 84111 Signed J. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

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)
Lot 6	7	9S	6E	1	<u>Utah 0140866 - J.M. Dunbar</u>					Spudded 8-30-66 Drilling 4000' October 31, 1966

NOTE.—There were..... runs or sales of oil; ..... M cu. ft. of gas sold;

..... runs or sales of ~~XXXXX~~ Drip Oil 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.

P. W. H. 10/21/66

COMPLETION REPORT

Operator: Mountain Fuel Supply Company

Well: Thistle Dome Unit Well No. 1

Area: Thistle Dome

Location: 3382 feet FSL, 4545 feet FEL, Section 7, Township 9 South, Range 6 East,  
Utah County, Utah

Elevation: Ground 6829 feet, Kelly Bushing 6841 feet

Drilling Commenced: August 30, 1966. Drilling Completed: October 19, 1966.

Rig Released: October 20, 1966.

Tops: North Horn @ Surface

Total Depth: 4000 feet

Casing: 10-3/4 inch landed @ 355.30 feet KBM with 230 sacks

Productivity: Temporarily suspended.

Remarks: Air drilled from surface to 1391 feet.

Cores:	Core No. 1	3450 feet - 3509 feet	Cut 59 feet	Recovered 59 feet
	Core No. 2	3972 feet - 4000 feet	Cut 28 feet	Recovered 28 feet

EGM:kjc

10/21/66

cc: J. E. Adney  
R. M. Ball  
G. D. Boston  
D. W. Elias  
E. A. Farmer, Jr.  
S. J. Fisher  
L. W. Folsom  
V. B. Gras  
J. M. Hummel  
Mildred Jensen  
E. R. Keller  
K. A. Loya  
R. G. Myers  
W. W. Skeeters  
N. D. Thomaidis  
J. W. Toth  
Paul Zubatch (6) ←  
Vernal Geology  
Development Section

FIELD Thistle Dome SEC. 7 T. 9 S. R. 6 E. PAGE 2  
 FARM Thistle Dome Unit WELL NO. 1  
 COMPANY Mountain Fuel Supply Company

	FROM	TO
Siltstone, dark red, firm, very sandy, calcareous.	832	850
Siltstone, as above; interbedded with limestone, as above.	850	860
Limestone, white, tan, orange, grey, black, some clear, hard, micro-crystalline; trace of chert, dark grey, orange.	860	910
Limestone, grey, some orange and black (ground fine), silty to sandy (looks like sandstone).	910	940
Limestone, grey, black, buff, white, orange; with some siltstone, as above.	940	950
Shale, dark red, hard, sandy.	950	960
Shale, as above; interbedded with limestone, as above.	960	970
Limestone, white, grey, dark grey, hard, dense, sandy; with some shale, as above.	970	980
Limestone, medium to dark grey, dense, silty; abundance of pyrite.	980	1000
Shale, dark red, firm, silty; interbedded with limestone, as above.	1000	1020
Shale, as above; with limestone, tan, silty, hard, dense.	1020	1030
Shale, as above; interbedded with sandstone, white, fine- to medium-grained, subangular to subrounded, firm, unconsolidated, calcareous; some limestone, as above.	1030	1040
Shale, as above; trace of sandstone, as above; trace of limestone, as above.	1040	1080
Shale, as above; with trace of limestone, white, hard, granular.	1080	1110
Limestone, light grey, hard, dense, pyritic, sandy.	1110	1130
Limestone, as above; with interbedded shale, as above.	1130	1210
Limestone, as above; with some limestone, dark grey, buff, pyritic.	1210	1220
Limestone, white, soft, very sandy, pyritic.	1220	1230
Shale, red, firm, very silty.	1230	1250
Sandstone, white, fine-grained, soft, unconsolidated, very calcareous, subrounded, mostly clear grains.	1250	1270
Sandstone, as above; with some shale, as above.	1270	1280
No samples.	1280	1290
Sandstone, as above; pyrite; clear calcite; shale, as above.	1290	1300
Shale, as above.	1300	1310
Sandstone, as above; abundance of black grains; interbedded with shale, as above.	1310	1350
Shale, as above; with some sandstone, as above.	1350	1360
No samples.	1360	1420
Siltstone, red, hard, calcareous, sandy; with veins of calcite, white, hard; some calcite, clear; trace of limestone, tan, grey, buff, hard, dense.	1420	1470
Siltstone, as above; limestone, grey, hard, dense; trace of sandstone, white to light grey, very fine-grained, hard, tight, calcareous, pyritic, fairly well sorted, few black grains.	1470	1490
Ditto.	1490	1510
Limestone, light grey to dark grey to red, very dense; trace of sandstone, white to light grey, hard, very fine-grained, calcareous, fairly well sorted.	1510	1540
Limestone, dark grey, hard, very dense, argillaceous.	1540	1560
Limestone, light and dark grey, hard, very dense; trace of limestone, red, microcrystalline, argillaceous; trace of sandstone, white to light grey, hard, very fine-grained, calcareous, pyritic, fairly well sorted, few black grains; trace of chert, very dark grey.	1560	1600
Limestone, light grey, hard, very dense; trace of sandstone, white to light grey, hard, very fine-grained, pyritic, fairly well sorted, few black grains; trace of chert, very dark grey.	1600	1620
Sandstone, white to light grey, very fine-grained, hard, tight, quartzitic, pyritic, no visible cement; trace of limestone, as above.	1620	1650
Sandstone, as above, white to light grey (quartzitic), very fine-grained, hard, tight, pyritic; trace of limestone, as above.	1650	1730
Sandstone, as above; trace of chert, very dark grey, hard, pyritic.	1730	1750
Sandstone, as above; trace of chert, white, hard, pyritic; trace of sandstone, white to light grey, very fine-grained, calcareous cement, pyritic, few black grains; trace of gypsum, white.	1750	1810

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 FARM Thistle Dome Unit WELL NO. 1  
 COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Sandstone, white to light grey, quartzitic, very fine-grained, fairly well sorted, hard, tight, pyritic; trace of chert, white, hard, pyritic; trace of gypsum, white; pyrite.	1810	1860
Same as above with trace of shale, red, silty, calcareous, hard.	1860	1870
Sandstone, white to light grey, quartzitic, very fine-grained to fine-grained, fairly well sorted, hard, tight, pyritic; trace of chert, light grey, hard; trace of quartz, clear; trace of gypsum, white; trace of pyrite.	1870	1900
Sandstone, as above; trace of chert, as above; trace of sandstone, very poorly sorted, few dark grains, pyritic, hard, tight.	1900	1910
Sandstone, white to light grey, quartzitic, very fine-grained to fine-grained, fairly well sorted, hard, tight, pyritic; trace of sandstone, white, very fine-grained to medium grained, very poorly sorted, hard, tight, pyritic; trace of sandstone, light pink, calcareous cement, medium hard, fairly well sorted, fine-grained.	1910	1958
Shale, red, firm, silty; abundance of sandstone, as above, 90%.	1958	1969
Shale, red, hard, 20%; with abundance of sandstone, as above.	1969	1980
Shale, as above; with sandstone, as above, 20%.	1980	2030
Shale, as above; with sandstone, as above, 40%.	2030	2040
Shale, as above; trace of sandstone, as above.	2040	2050
Shale, as above; with sandstone, as above, 20%.	2050	2070
Shale, as above; with trace of sandstone, as above; trace of quartz, clear; pyrite.	2070	2100
Shale, as above.	2100	2130
Shale, red, firm to medium hard; trace of calcite; trace of sandstone, white to light grey, with some green minerals, hard, very fine-grained to fine-grained, fairly well sorted.	2130	2160
Shale, red, firm to medium hard, silty; trace of calcite; trace of sandstone, quartzitic, white to light grey, hard, very fine-grained to fine-grained, fairly well sorted; trace of chert, white to dark grey.	2160	2200
Shale, as above; trace of calcite; trace of sandstone, as above.	2200	2340
Shale, as above; trace of sandstone, as above; trace of calcite; trace of pyrite; siltstone, red, hard; trace of chert, grey; trace of quartz.	2340	2370
Shale, as above; with some gypsum, white, soft.	2370	2400
Shale, red, hard, very silty; interbedded with sandstone, white, fine-grained, tight, quartzitic, very hard, pyritic, (about 15% sandstone).	2400	2420
Siltstone, red, hard, pyritic; sandstone, white, fine-grained, hard, tight, pyritic.	2420	2470
Siltstone, as above; shale, red, very silty, hard; mica; trace of sandstone, as above.	2470	2480
Shale, as above.	2480	2490
Shale, as above; trace of sandstone, white, very fine-grained, hard to tight.	2490	2580
Shale, as above; with some siltstone, red, hard; trace of sandstone, as above.	2580	2590
Siltstone, as above; with some shale, as above.	2590	2660
Siltstone, as above; with some shale, as above; trace of sandstone, as above.	2660	2690
Siltstone, as above.	2690	2710
Siltstone, as above; trace of sandstone, as above.	2710	2720
Shale, red, very silty in part; siltstone, as above.	2720	2800
Siltstone, as above; shale, as above.	2800	2880
Siltstone, as above; shale, as above; trace of sandstone, as above.	2880	2900
Shale, as above; siltstone, as above; trace of sandstone, as above.	2900	2930
Shale, as above; trace of sandstone, as above.	2930	3050
Shale, as above; with some soft red shale.	3050	3080
Shale, as above; siltstone, as above; with some grey siltstone.	3080	3210
Shale, as above; siltstone; trace of sandstone, white, hard, tight, fine-grained, pyritic.	3210	3380
Siltstone, as above; shale, as above; trace of sandstone, as above.	3380	3450

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 FARM Thistle Dome Unit WELL NO. 1  
 COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
<u>Core No. 1</u>		
3450 - 3509      Cut 59'      Recovered 59'		
Shale, red mottled with green shale, silty, hard, calcareous; abundance of open vertical frac with very minute bedding planes in part.	3450	3502
Ditto with thin white calcite vein.	3502	3503
Shale, as above.	3503	3509
Shale, red, very silty, hard, calcareous; mottled with some green shale, with occasional thin vein of calcite; very small trace of quartz sandstone, medium grained, clear, fairly well sorted.	3509	3690
Shale, as above; some siltstone, as above; trace of sandstone, as above.	3690	3850
Ditto; trace of gypsum.	3850	3880
Shale, as above; siltstone, as above; trace of sandstone, as above.	3880	3970
Ditto; trace of calcite.	3970	3975
<u>Core No. 2</u>		
3972 - 4000      Cut 28'      Recovered 28'		
Shale, red, silty, hard, calcareous, mottled with some green shale; occasional white calcite vein.	3972	4000
Shale, red, firm, calcareous; siltstone, red, sandy to silty, hard to brittle.	4000	4050
Ditto; trace of sandstone, white to grey, very fine-grained to fine-grained, fairly well sorted, friable, porous, slightly calcareous; trace of shale, green, soft.	4050	4080
Shale, as above; siltstone, as above; trace of sandstone, light green, very fine-grained, well sorted, friable, porous, calcareous.	4080	4100
Shale, as above; siltstone, as above; trace of sandstone, white, very fine-grained, clean, friable, porous; abundance of bentonite.	4100	4120
Shale, as above; siltstone, as above.	4120	4140
Shale, as above; siltstone, as above; trace of sandstone, white to red, very fine-grained, friable, calcareous.	4140	4240
Shale, as above; siltstone, as above; trace of sandstone, as above; trace of siltstone, green, friable, sandy, very fine-grained, calcareous; trace of calcite.	4240	4500
Shale, as above; siltstone, as above; trace of sandstone, as above; trace of sandstone, white, fine-grained, very hard, dense and tight, quartzitic, light gold fluorescence, cuts.	4500	4710
Shale, as above; siltstone, as above; trace of sandstone, as above, no fluorescence; trace of siltstone, green, firm to hard, calcareous.	4710	4770
Ditto; trace of limestone, light tan to grey, microcrystalline, very hard; pyrite.	4770	4790
Shale, as above; siltstone, as above; sandstone, white to light grey to light tan, fine-grained, quartzitic, well sorted, dense, tight, very hard, some fluorescence.	4790	4830
Ditto; trace of limestone, tan to grey, microcrystalline, very hard.	4830	4858
Gypsum.	4858	4860
Siltstone, as above; shale, as above; sandstone, as above; calcite; pyrite; quartz.	4860	4898
Sandstone, red, very fine-grained, friable to dense, well sorted, micaceous, calcareous; siltstone, as above; shale, as above; trace of sandstone, white to light grey, fine-grained, friable to dense, calcareous.	4898	4975
Siltstone, as above; shale, as above; sandstone, red, as above.	4975	5020
Shale, red, soft, silty; siltstone, red, firm, micaceous; sandstone, red, fine-grained, subangular, fairly well sorted, tight, occasional black grains, very silty in part.	5020	5100
Shale, as above; siltstone, as above; trace of sandstone, as above.	5100	5160

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 COMPANY Mountain Fuel Supply Company

	FROM	TO
Sandstone, red, very fine-grained, tight, subangular, micaceous; with siltstone, red, firm, sandy, slightly calcareous; shale, as above.	5160	5210
Shale, as above; siltstone, as above; with sandstone, white, fine-grained, subangular, fairly well sorted, tight, hard, looks quartzitic.	5210	5260
Shale, as above; siltstone, as above, interbedded with ortho quartzite, white to light grey, very hard, fine-grained, fairly well sorted, tight, occasional trace of fluorescence, yellow to blue, cut.	5260	5290
Siltstone, as above.	5290	5310
Shale, as above; siltstone, as above; ortho quartzite, white to light grey, very fine-grained to fine-grained, occasional streaks of medium-grained, very hard, tight, pyritic in part, fluorescence, yellow, good cut, no gas reading.	5310	5330
Shale, as above; siltstone, as above; quartzite, as above.	5330	5360
Siltstone, as above; trace of shale, as above; trace of quartzite.	5360	5370
Siltstone, as above; quartzite, as above.	5370	5500
Siltstone, as above; with quartzite, as above.	5500	5540
Ditto; with some limestone, white, microcrystalline, firm.	5540	5550
Quartzite, white to clear, very hard, fine-grained in part, tight, pyritic in part; with some siltstone, as above.	5550	5580
Siltstone, as above; shale, red, very hard; quartzite, as above.	5580	5700
Shale, as above; siltstone, as above; quartzite, as above; trace of calcite.	5700	5780
Siltstone, as above; shale, as above; sandstone, red, very fine-grained, friable to dense, micaceous; trace of quartzite, as above.	5780	5820
Siltstone, as above; sandstone, as above; shale, as above; trace of quartzite, as above; with pyrite.	5820	5850
Shale, as above; sandstone, as above; siltstone, as above; trace of quartzite, as above.	5850	5910
Shale, red, firm, silty; siltstone, red, firm, micaceous, sandy in part, slightly calcareous in part; with occasional thin beds of sandstone, white, very fine-grained to fine-grained, hard, tight, pyritic in part, looks very quartzitic; trace of anhydrite, white, soft.	5910	5980
Shale, as above; siltstone, as above; sandstone, as above.	5980	5990
Limestone, light grey, fine crystalline, hard, dolomitic, sandy in part; with some shale and siltstone, as above.	5990	6010
Sandstone, light grey to medium grey, very fine-grained to fine-grained, firm, friable, salt and pepper, very limey to dolomitic.	6010	6060
Sandstone, as above, pyritic in some part; with some shale, greenish-grey, soft, silty, limey; trace of anhydrite, white, soft; increasing in shale, as above; siltstone, as above.	6060	6080
Siltstone, as above; shale, red, as above; sandstone, grey, as above; with some shale, greenish-grey, as above; trace of anhydrite, as above, sample becoming more brown and less red.	6080	6130
Shale, reddish-brown, firm, silty, micaceous, slightly calcareous; trace of shale, greenish-grey, as above; trace of sandstone, greenish-grey, as above.	6130	6210
Dolomite, greenish-white, fine crystalline, very sandy, hard, calcareous in part; shale, reddish brown, as above; trace of anhydrite.	6210	6250
Dolomite, as above; shale, as above; trace of anhydrite, as above; reddish-brown shale increase.	6250	6260
Shale, reddish-brown, as above; sandstone, light grey, soft, very fine-grained to fine-grained, salt and pepper, very dolomitic.	6260	6280
Sandstone, as above; shale, as above, reddish-brown to brown.	6280	6290
Shale, as above; sandstone, as above; trace of anhydrite, as above.	6290	6310
Sandstone, as above; shale, as above; trace of anhydrite, as above.	6310	6330
Shale, as above; sandstone, as above.	6330	6341

Core No. 3

	<u>FROM</u>	<u>TO</u>
6341' - 6354' Cut 13' Recovered 13'		
Shale, dark reddish-brown, mottled, green, firm, concoidal fractures, vertical fractures; anhydrite filled fractures.	6341	6342.5
Dolomite, grey, mottled, white and red, with very sandy lenses, hard, fine crystalline, with dark reddish-brown shale partings, with slickensides and anhydrite, contorted, brecciated.	6342.5	6347
Dolomite, dark grey, thin bedded, very silty, horizontal fractures filled with anhydrite and calcite.	6347	6349
Dolomite, grey to dark grey, fine crystalline, hard, 15°-20° dip; with very fine-grained sandstone partings and dark grey shale partings, slickensides; white calcite nodules from 6350'-6351'; vertical calcite filled fractures 6351'-6354'.	6349	6354

Core No. 4

6354'-6361' Cut 7' Recovered 3'		
Dolomite, dark grey, argillaceous, very hard, fine crystalline; occasional shale partings, dark grey; abundance of white calcite nodules; open vertical fractures.	6354	6357
Dolomite, grey, hard, fine to medium crystalline; with very fine-grained sandstone partings, grey; becoming siltstone, grey, with depth; shale, red to dark reddish-brown, firm, very dolomitic.	6361	6410
Limestone, white to dark grey, soft to hard, fine crystalline, very sandy, salt and pepper, angular; shale, red to reddish-brown, as above; trace of anhydrite, white, soft.	6410	6460
Sandstone, white, fine-grained, friable, well sorted, calcareous, tight; limestone, as above; shale, as above; shale, grey, firm, dolomitic; trace of anhydrite, as above; trace of calcite, white.	6460	6480
Siltstone, brown to brownish-blue, hard, micaceous, slightly calcareous; sandstone, as above; shale, red to reddish-brown, as above; trace of calcite; trace of shale, grey, as above.	6480	6510
Limestone, grey, hard, fine crystalline, sandy; trace of shale, red, as above; with occasional thin veins of calcite, white.	6510	6570
Sandstone, grey, very fine-grained, very hard to hard, salt and pepper, well sorted, calcareous, tight; limestone, light grey, very fine crystalline, hard, arenaceous.	6570	6590
Siltstone, brown, firm, arenaceous, micaceous, slightly calcareous; sandstone, as above, very calcareous.	6590	6600
Dolomite, grey, hard, fine crystalline, arenaceous, silty, sandy; siltstone, as above; with occasional thin fractures filled with calcite.	6600	6650
Limestone, grey, firm, very fine crystalline, very sandy, salt and pepper; with occasional thin veins of calcite.	6650	6670
Limestone, as above; shale, brown, hard, very slightly calcareous, occasionally silty; silt content increasing with depth; limestone, greyish-white, soft, sandy.	6670	6690
Shale, as above; limestone, grey, as above; limestone, greyish-white, as above.	6690	6700
Limestone, grey, as above; shale, as above; limestone, greyish-white, as above.	6700	6710
Sandstone, as above; limestone, greyish-white, as above; trace of shale, brown, as above.	6710	6730
Sandstone, as above; limestone, white, mottled black, medium grey, soft; shale, brown, as above.	6730	6750
Limestone, grey, hard, fine crystalline, arenaceous; shale, brown, as above; trace of shale, grey, hard, silty, slightly calcareous.	6750	6770

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 COMPANY Mountain Fuel Supply Company

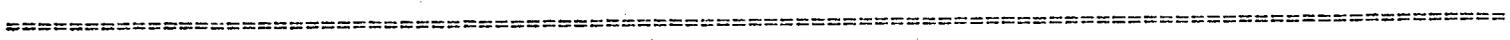
	<u>FROM</u>	<u>TO</u>
Shale, brown, firm, silty, slightly calcareous; siltstone, brown, hard, sandy, occasional micaceous, slightly calcareous; trace of limestone, as above; trace of shale, grey, as above; trace of sandstone, as above.	6770	6810
Shale, brown, firm, silty, slightly calcareous, interbedded with siltstone, reddish-brown, sandy, micaceous, slightly calcareous; trace of anhydrite.	6810	6850
Ditto, with some limestone, greenish-grey, firm to soft, sandy.	6850	6870
Sandstone, light grey, very fine-grained, tight, salt and pepper in part, firm, friable, silty in part, very calcareous; with some red shale and siltstone, as above.	6870	6880
Siltstone, as above; interbedded with sandstone, as above.	6880	6890
Siltstone, chocolate brown, firm, micaceous, sandy in part.	6890	6920
Siltstone, as above; interbedded with sandstone, pink to red, very fine-grained to fine-grained, firm, silty, tight.	6920	6930
Siltstone, as above.	6930	6940
Siltstone, as above; sandstone, as above.	6940	7000
Siltstone, as above; limestone, light grey, fine crystalline, firm to hard, sandy in part, dolomitic.	7000	7020
Limestone, as above.	7020	7040
Limestone, as above; interbedded with siltstone, as above.	7040	7050
Limestone, light to medium grey, fine crystalline, firm, silty to sandy, argillaceous, dolomitic in part, micaceous; grading into siltstone, light grey, micaceous (gold to copper), firm.	7050	7060
Siltstone, light to medium grey, firm; micaceous (siltstone has grey to reddish cast when wet), very limy, looks like fine crystalline limestone when dry, wet like siltstone.	7060	7080
Siltstone, chocolate brown, firm; limestone, light grey, firm, fine crystalline, silty, argillaceous; calcite, white to pink.	7080	7090
Limestone, medium to dark grey, firm, silty, fine crystalline; siltstone, light grey, firm, very limy, micaceous; siltstone, chocolate brown, as above.	7090	7100
Limestone, light to medium grey, mottled, micaceous to crystalline to fine crystalline, firm, argillaceous in part; abundance of white calcite.	7100	7140
Limestone, medium to light grey, hard, sucrosic; with abundance of calcite, white to tan.	7140	7170
Limestone, light to medium grey, mottled with white cream in part, hard, microcrystalline to fine crystalline, argillaceous in part.	7170	7320
Limestone, light grey to grey, hard, fine crystalline to medium crystalline, very argillaceous; calcite, white, firm, pyritic in part, also cream colored, soft.	7320	7340
Limestone, as above; sandstone, light grey, friable, very fine to fine-grained, very limy; siltstone, dark grey, hard, limy; calcite white, firm.	7340	7350
Limestone, as above; siltstone, light grey to grey, hard, limy; calcite, as above.	7350	7360
Siltstone, light grey to brownish-grey, mottled bronze and occasional red, firm, micaceous; calcite; limestone, greyish-white, mottled red, soft, microcrystalline, very arenaceous and silty; trace of calcite, as above, secondary filling in fractures.	7360	7440
Siltstone, as above; limestone, as above; trace of calcite, as above; trace of shale, dirty purplish-brown, soft, silty, slightly limy.	7440	7460
Siltstone, as above; limestone, as above; shale, as above; shale, grey, firm, siliceous, contact visible with purplish-brown shale; trace of calcite, as above.	7460	7470
Limestone, white to greenish-white, soft to hard, micro crystalline to very fine crystalline; siltstone, as above; shale, purplish-brown, as above; shale, grey, as above; shale, green, soft, silty, calcareous; shale, brown, hard, siliceous; trace of calcite, as above.	7470	7480
Limestone, as above; shale, grey, hard, fine-grained, calcareous; shale, brown, as above.	7480	7490

FARM Thistle Dome Unit WELL NO. 1COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Limestone, very light grey to medium grey, very light grey; limestone, soft to hard, medium grey is hard, microcrystalline; with occasional calcite filled fractures.	7490	7580
Limestone, as above; with occasional calcite, as above; trace of shale, greyish-green, soft, slightly limy to dolomitic.	7580	7590
Limestone, grey, cream to brown, firm to hard, microcrystalline to very fine crystalline, argillaceous; shale, dark grey, firm, very fine-grained; shale, as above, slight trace of carbonaceous, black, gas kick, 5 units.	7590	7610
Limestone, grey, white, cream to brown, soft to hard, microcrystalline, with occasional calcite filled fractures; shale, dark metallic grey, soft, very fine-grained; trace of shale, green, as above.	7610	7680
Limestone, white, mottled, grey and blue, fine crystalline, argillaceous; limestone, as above; calcite, white, firm.	7680	7690
Limestone, white, mottled, grey and black, as above; limestone, as above; trace of shale, as above.	7690	7710
Dolomite, grey, hard, fine crystalline, sandy; calcite filled fractures; limestone, cream, soft, chalky, very fine-grained, occasionally sandy; occasional calcite, white, mottled, dark heavy minerals.	7710	7760
Limestone, cream, with tan or/and brown spots, soft, microcrystalline; dolomite, as above.	7760	7770
Dolomite, as above; limestone, as above; calcite, whitish, cream, with dark minerals, black carbonaceous material from 7790', 5 unit gas kick.	7770	7810
Limestone, light grey, hard, fine crystalline to medium crystalline, dolomitic; siltstone, dark grey, hard, coarse-grained, dolomitic, trace of blue carbonaceous.	7810	7820
Limestone, as above, grey; siltstone, as above, pyritic; calcite, white, hard, also with occasional dark mineral inclusions.	7820	7850
Dolomite, grey to dark grey, hard, fine crystalline to medium crystalline, argillaceous; limestone, cream to tan, soft, microcrystalline; calcite, as above.	7850	7880
Limestone, grey, hard, microcrystalline to very fine crystalline, argillaceous; limestone, cream, as above; calcite, as above, pyritic; trace of black carbonaceous material at 7890'	7880	7900
Limestone, light grey, soft, fine crystalline, saccharoidal, dolomitic; trace of shale, grey, firm, calcareous; calcite, as above.	7900	7920
Limestone, light grey to grey, firm, microcrystalline to fine crystalline, some argillaceous; limestone, cream, spotted brown, soft chalky, microcrystalline.	7920	7950
Limestone, very light grey to grey, very hard, microcrystalline, saccharoidal, dolomitic, light grey; limestone, occasional speckled with darker metallic minerals; trace of siltstone, grey, hard, very slightly calcareous to dolomitic; trace of limestone, cream, as above; trace of dolomite, white, hard, looks quartzitic; trace of black carbonaceous material at 7980'.	7950	7990
Limestone, as above; shale, metallic grey, firm, very slightly calcareous or dolomitic; trace of limestone, cream, as above; trace of calcite, white, hard.	7990	8020
Shale, metallic grey, hard, dolomitic; limestone, as above, both grey and cream.	8020	8050
Limestone, reddish-brown to beige, mottled, hard, microcrystalline; limestone, grey, firm, fine crystalline, saccharoidal in part, calcareous, clear.	8050	8070
Limestone, grey and white, soft to hard, microcrystalline to fine crystalline; limestone, reddish-brown, as above.	8070	8080
Limestone, reddish-brown, as above; limestone, grey, as above.	8080	8090
Limestone, reddish-brown, as above; shale, reddish-brown, firm to hard, very fine-grained, siliceous.	8090	8100

FARM Thistle Dome Unit WELL NO. 1

COMPANY Mountain Fuel Supply Company



	<u>FROM</u>	<u>TO</u>
Shale, reddish-brown, firm to hard, very fine-grained, very slightly calcareous or dolomitic in part; siltstone, reddish-brown, firm, siliceous; trace of dolomite, white, very hard, fine crystalline; trace of calcite, white, firm.	8100	8120
Shale, as above; shale, light greenish-grey mottled dark green in part, soft to very hard, siliceous in part; trace of dolomite, as above.	8120	8150
Shale, as above; siltstone, reddish-brown, mottled light grey and black in part, firm, siliceous.	8150	8177
Total Depth	8170	

Core No. 5

8177'-8207' Cut 30' Recovered 30'		
Shale, dark to light red, silty; interbedded with light grey quartzite; siltstone; vertical fractures and some microshears with calcite filling.	8177	8191
Shale, dark red, silty, with trace of light red silty streaks which have the appearance of ripple marks in cross section.	8191	8202
Siltstone, dark red with small amount of very fine-grained quartzitic, dark red sandstone.	8202	8207

EGM/PDL/JRP/CTC:kjc  
10/11/67

FIELD Thistle Dome STATE Utah COUNTY Utah LOT 6  
 SEC. 7 T. 9 S. 6 E.

COMPANY Mountain Fuel Supply Company FARM Thistle Dome Unit WELL NO. 1

LOCATION 3382' FSL, 4545' FEL ELEV. Gr. 6829', K.B. 6841'

DRILLING COMMENCED August 30, 1966 COMPLETED August 28, 1967

RIG RELEASED August 28, 1967 TOTAL DEPTH 8207' Driller; 8215'

CASING RECORD 10-3/4" landed @ 355.30' KBM with 230 sacks Logger

TUBING RECORD \_\_\_\_\_

PERFORATIONS \_\_\_\_\_

0			
	7		

Irregular section containing 983.52 acres

I. P. GAS OIL \_\_\_\_\_

REMARKS This well was drilled to 4000' and later deepened to its present total depth. Drilling was suspended between October 20, 1966 and June 15, 1967.

This well was air drilled from surface to 1391'.

	FROM	TO
NORTH HORN - SURFACE		
No samples.	0	368
Poor samples, drying out hole, fine, silty and sand size calcite and quartz grains, grey in color.	368	405
Siltstone, dark red, firm, very sandy, very calcareous; some sandstone, medium grey, very-fine grained, calcareous; some limestone, dense, hard, grey.	405	420
No samples.	420	430
Limestone, white, hard, microcrystalline, abundance of clear grains; with some very fine pieces of siltstone, as above.	430	450
No samples.	450	460
Siltstone, as above; shale, dark red, firm, silty; abundance of loose grains.	460	480
No samples.	480	490
Shale, dark red, firm, sandy.	490	500
Shale, red, firm, silty to sandy; abundance of calcite and quartz grains, fine to medium sized.	500	550
Limestone, pink, hard, microcrystalline; some red shale, as above.	550	570
Limestone, white, hard, microcrystalline.	570	580
Shale, red, very fine pieces; with some limestone, as above.	580	600
Limestone, grey, hard, dense.	600	620
Limestone, grey, hard, microcrystalline, some orange and black pieces.	620	630
Shale, dark red, firm, with abundant sand grains.	630	650
Shale, dark red.	650	660
Limestone, grey, hard, dense, abundance of orange and black grains, pyritic; some vein calcite, white.	660	670
Limestone, grey, hard, dense; shale, as above; some calcite, white.	670	690
Limestone, grey, hard, dense; some white, vein calcite, abundance of orange and black grains.	690	710
Limestone, white, grey, microcrystalline, hard, sandy in part.	710	720
Limestone, medium grey, hard, dense, silty, pyritic.	720	730
Shale, dark red, silty to sandy, firm.	730	740
Limestone, white, grey, microcrystalline, hard, sandy.	740	760
Shale, dark red, silty; with some limestone, as above.	760	770
Limestone, medium grey, black, orange, white, hard, microcrystalline, pyritic.	770	832

FIELD Thistle Dome STATE Utah COUNTY Utah LOT 6  
 SEC. 7 T. 9 S. R. 6 E.

COMPANY Mountain Fuel Supply Company FARM Thistle Dome Unit WELL NO. 1

LOCATION 3382' FSL, 4545' FEL ELEV. Gr. 6829', K.B. 6341'

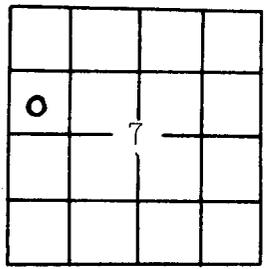
DRILLING COMMENCED August 30, 1966 COMPLETED October 19, 1966

RIG RELEASED October 20, 1966 TOTAL DEPTH 4000'

CASING RECORD 10-3/4" landed @ 355.30' KBM with 230 sacks

TUBING RECORD \_\_\_\_\_

PERFORATIONS \_\_\_\_\_



Irregular section containing 983.52 acres.

I. P. GAS Temporarily suspended OIL \_\_\_\_\_

SANDS \_\_\_\_\_

SHUT-IN SURFACE PRESSURES \_\_\_\_\_

REMARKS Air drilled from surface to 1391'

=====

	<u>FROM</u>	<u>TO</u>
NORTH HORN - SURFACE		
No samples.	0	368
Poor samples, drying out hole, fine, silty and sand size calcite and quartz grains, grey in color.	368	405
Siltstone, dark red, firm, very sandy, very calcareous; some sandstone, medium grey, very-fine grained, calcareous; some limestone, dense, hard, grey.	405	420
No samples.	420	430
Limestone, white, hard, microcrystalline, abundance of clear grains; with some very fine pieces of siltstone, as above.	430	450
No samples.	450	460
Siltstone, as above; shale, dark red, firm, silty; abundance of loose grains.	460	480
No samples.	480	490
Shale, dark red, firm, sandy.	490	500
Shale, red, firm, silty to sandy; abundance of calcite and quartz grains, fine to medium sized.	500	550
Limestone, pink, hard, microcrystalline; some red shale, as above.	550	570
Limestone, white, hard, microcrystalline.	570	580
Shale, red, very fine pieces; with some limestone, as above.	580	600
Limestone, grey, hard, dense.	600	620
Limestone, grey, hard, microcrystalline, some orange and black pieces.	620	630
Shale, dark red, firm, with abundant sand grains.	630	650
Shale, dark red.	650	660
Limestone, grey, hard, dense, abundance of orange and black grains, pyritic; some vein calcite, white.	660	670
Limestone, grey, hard, dense; shale, as above; some calcite, white.	670	690
Limestone, grey, hard, dense; some white, vein calcite, abundance of orange and black grains.	690	710
Limestone, white, grey, microcrystalline, hard, sandy in part.	710	720
Limestone, medium grey, hard, dense, silty, pyritic.	720	730
Shale, dark red, silty to sandy, firm.	730	740
Limestone, white, grey, microcrystalline, hard, sandy.	740	760
Shale, dark red, silty; with some limestone, as above.	760	770
Limestone, medium grey, black, orange, white, hard, microcrystalline, pyritic.	770	832

FIELD Thistle Dome SEC. 7 T. 9 S. R. 6 E. PAGE 2  
 FARM Thistle Dome Unit WELL NO. 1  
 COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Siltstone, dark red, firm, very sandy, calcareous.	832	850
Siltstone, as above; interbedded with limestone, as above.	850	860
Limestone, white, tan, orange, grey, black, some clear, hard, microcrystalline; trace of chert, dark grey, orange.	860	910
Limestone, grey, some orange and black (ground fine), silty to sandy (looks like sandstone).	910	940
Limestone, grey, black, buff, white, orange; with some siltstone, as above.	940	950
Shale, dark red, hard, sandy.	950	960
Shale, as above; interbedded with limestone, as above.	960	970
Limestone, white, grey, dark grey, hard, dense, sandy; with some shale, as above.	970	980
Limestone, medium to dark grey, dense, silty; abundance of pyrite.	980	1000
Shale, dark red, firm, silty; interbedded with limestone, as above.	1000	1020
Shale, as above; with limestone, tan, silty, hard, dense.	1020	1030
Shale, as above; interbedded with sandstone, white, fine- to medium-grained, subangular to subrounded, firm, unconsolidated, calcareous; some limestone, as above.	1030	1040
Shale, as above; trace of sandstone, as above; trace of limestone, as above.	1040	1080
Shale, as above; with trace of limestone, white, hard, granular.	1080	1110
Limestone, light grey, hard, dense, pyritic, sandy.	1110	1130
Limestone, as above; with interbedded shale, as above.	1130	1210
Limestone, as above; with some limestone, dark grey, buff, pyritic.	1210	1220
Limestone, white, soft, very sandy, pyritic.	1220	1230
Shale, red, firm, very silty.	1230	1250
Sandstone, white, fine-grained, soft, unconsolidated, very calcareous, subrounded, mostly clear grains.	1250	1270
Sandstone, as above; with some shale, as above.	1270	1280
No samples.	1280	1290
Sandstone, as above; pyrite; clear calcite; shale, as above.	1290	1300
Shale, as above.	1300	1310
Sandstone, as above; abundance of black grains; interbedded with shale, as above.	1310	1350
Shale, as above; with some sandstone, as above.	1350	1360
No samples.	1360	1420
Siltstone, red, hard, calcareous, sandy; with veins of calcite, white, hard; some calcite, clear; trace of limestone, tan, grey, buff, hard, dense.	1420	1470
Siltstone, as above; limestone, grey, hard, dense; trace of sandstone, white to light grey, very fine-grained, hard, tight, calcareous, pyritic, fairly well sorted, few black grains.	1470	1490
Ditto.	1490	1510
Limestone, light grey to dark grey to red, very dense; trace of sandstone, white to light grey, hard, very fine-grained, calcareous, fairly well sorted.	1510	1540
Limestone, dark grey, hard, very dense, argillaceous.	1540	1560
Limestone, light and dark grey, hard, very dense; trace of limestone, red, microcrystalline, argillaceous; trace of sandstone, white to light grey, hard, very fine-grained, calcareous, pyritic, fairly well sorted, few black grains; trace of chert, very dark grey.	1560	1600
Limestone, light grey, hard, very dense; trace of sandstone, white to light grey, hard, very fine-grained, pyritic, fairly well sorted, few black grains; trace of chert, very dark grey.	1600	1620
Sandstone, white to light grey, very fine-grained, hard, tight, quartzitic, pyritic, no visible cement; trace of limestone, as above.	1620	1650
Sandstone, as above, white to light grey (quartzitic), very fine-grained, hard, tight, pyritic; trace of limestone, as above.	1650	1730
Sandstone, as above; trace of chert, very dark grey, hard, pyritic.	1730	1750
Sandstone, as above; trace of chert, white, hard, pyritic; trace of sandstone, white to light grey, very fine-grained, calcareous cement, pyritic, few black grains; trace of gypsum, white.	1750	1810

	<u>FROM</u>	<u>TO</u>
Sandstone, white to light grey, quartzitic, very fine-grained, fairly well sorted, hard, tight, pyritic; trace of chert, white, hard, pyritic; trace of gypsum, white; pyrite.	1810	1860
Same as above with trace of shale, red, silty, calcareous, hard.	1860	1870
Sandstone, white to light grey, quartzitic, very fine-grained to fine-grained, fairly well sorted, hard, tight, pyritic; trace of chert, light grey, hard; trace of quartz, clear; trace of gypsum, white; trace of pyrite.	1870	1900
Sandstone, as above; trace of chert, as above; trace of sandstone, very poorly sorted, few dark grains, pyritic, hard, tight.	1900	1910
Sandstone, white to light grey, quartzitic, very fine-grained to fine-grained, fairly well sorted, hard, tight, pyritic; trace of sandstone, white, very fine-grained to medium grained, very poorly sorted, hard, tight, pyritic; trace of sandstone, light pink, calcareous cement, medium hard, fairly well sorted, fine-grained.	1910	1958
Shale, red, firm, silty; abundance of sandstone, as above, 90%.	1958	1969
Shale, red, hard, 20%; with abundance of sandstone, as above.	1969	1980
Shale, as above; with sandstone, as above, 20%.	1980	2030
Shale, as above; with sandstone, as above, 40%.	2030	2040
Shale, as above; trace of sandstone, as above.	2040	2050
Shale, as above; with sandstone, as above, 20%.	2050	2070
Shale, as above; with trace of sandstone, as above; trace of quartz, clear; pyrite.	2070	2100
Shale, as above.	2100	2130
Shale, red, firm to medium hard; trace of calcite; trace of sandstone, white to light grey, with some green minerals, hard, very fine-grained to fine-grained, fairly well sorted.	2130	2160
Shale, red, firm to medium hard, silty; trace of calcite; trace of sandstone, quartzitic, white to light grey, hard, very fine-grained to fine-grained, fairly well sorted; trace of chert, white to dark grey.	2160	2200
Shale, as above; trace of calcite; trace of sandstone, as above.	2200	2340
Shale, as above; trace of sandstone, as above; trace of calcite; trace of pyrite; siltstone, red, hard; trace of chert, grey; trace of quartz.	2340	2370
Shale, as above; with some gypsum, white, soft.	2370	2400
Shale, red, hard, very silty; interbedded with sandstone, white, fine-grained, tight, quartzitic, very hard, pyritic, (about 15% sandstone).	2400	2420
Siltstone, red, hard, pyritic; sandstone, white, fine-grained, hard, tight, pyritic.	2420	2470
Siltstone, as above; shale, red, very silty, hard; mica; trace of sandstone, as above.	2470	2480
Shale, as above.	2480	2490
Shale, as above; trace of sandstone, white, very fine-grained, hard to tight.	2490	2580
Shale, as above; with some siltstone, red, hard; trace of sandstone, as above.	2580	2590
Siltstone, as above; with some shale, as above.	2590	2660
Siltstone, as above; with some shale, as above; trace of sandstone, as above.	2660	2690
Siltstone, as above.	2690	2710
Siltstone, as above; trace of sandstone, as above.	2710	2720
Shale, red, very silty in part; siltstone, as above.	2720	2800
Siltstone, as above; shale, as above.	2800	2880
Siltstone, as above; shale, as above; trace of sandstone, as above.	2880	2900
Shale, as above; siltstone, as above; trace of sandstone, as above.	2900	2930
Shale, as above; trace of sandstone, as above.	2930	3050
Shale, as above; with some soft red shale.	3050	3080
Shale, as above; siltstone, as above; with some grey siltstone.	3080	3210
Shale, as above; siltstone; trace of sandstone, white, hard, tight, fine-grained, pyritic.	3210	3380
Siltstone, as above; shale, as above; trace of sandstone, as above.	3380	3450

FIELD Thistle Dome SEC. 7 T. 9 S. R. 6 E. PAGE 4  
 FARM Thistle Dome Unit WELL NO. 1  
 COMPANY Mountain Fuel Supply Company

=====

	<u>FROM</u>	<u>TO</u>
<u>Core No. 1</u>		
3450 - 3509      Cut 59'      Recovered 59'		
Shale, red mottled with green shale, silty, hard, calcareous; abundance of open vertical frac with very minute bedding planes in part.	3450	3502
Ditto with thin white calcite vein.	3502	3503
Shale, as above.	3503	3509
Shale, red, very silty, hard, calcareous; mottled with some green shale, with occasional thin vein of calcite; very small trace of quartz sandstone, medium grained, clear, fairly well sorted.	3509	3690
Shale, as above; some siltstone, as above; trace of sandstone, as above.	3690	3850
Ditto; trace of gypsum.	3850	3880
Shale, as above; siltstone, as above; trace of sandstone, as above.	3880	3970
Ditto; trace of calcite.	3970	3975
<u>Core No. 2</u>		
3972 - 4000      Cut 28'      Recovered 28'		
Shale, red, silty, hard, calcareous, mottled with some green shale; occasional white calcite vein.	3972	4000

EGM:kjc

10/27/66

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE \_\_\_\_\_  
LEASE NUMBER \_\_\_\_\_  
UNIT Thistle Dome

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Utah Field Thistle Dome

The following is a correct report of operations and production (including drilling and producing wells) for the month of NOV - 1966, 19\_\_\_\_

Agent's address P.O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY  
Salt Lake City, Utah 84111 Signed J. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

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>Utah 0140866 - J.M. Durbak</del>					
Lot 6	7	9E	6E	1						Spudded 8-30-66 Drilling 4,000' Operations Suspended 11-30-66

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of ~~gasoline~~ <sup>Drip Oil</sup> during the month. (Write "no" where applicable.)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE \_\_\_\_\_  
LEASE NUMBER \_\_\_\_\_  
UNIT **Thistle Dome**

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Utah** Field **Thistle Dome**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **DEC - 1966**, 19\_\_\_\_,

Agent's address **P.O. Box 11368** Company **MOUNTAIN FUEL SUPPLY COMPANY**  
**Salt Lake City, Utah 84111** Signed **D. Murphy**

Phone **328-8315** Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>Lot 6 7</b>	<b>9S</b>	<b>6E</b>	<b>1</b>							<b>Spudded 8-30-66</b> <b>Drilling 4000'</b> <b>Operations Suspended</b> <b>11-30-66</b>

NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of **Drip Oil** during the month. (Write "no" where applicable.)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Thistle Dome** .....

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Utah** Field **Thistle Dome**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **JAN 1967**, 19.....

Agent's address **P.O. Box 11368** Company **MOUNTAIN FUEL SUPPLY COMPANY**

**Salt Lake City, Utah 84111** Signed *J. Murphy*

Phone **328-8315** Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

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>Utah 0140566 - J.M. Dunbar</del>					
Lot 6	7	9S	6K	1						Spudded 8-30-66 Drilling 4,000' Operations Suspended 1-31-67

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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Thistle Dome** .....

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Utah** Field **Thistle Dome**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **FEB - 1967**, 19.....

Agent's address **P. O. Box 11368** Company **MOUNTAIN FUEL SUPPLY COMPANY**

**Salt Lake City, Utah 84111** Signed *J. Murphy*

Phone **328-8315** Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
				<b>Utah 0140866 - J.M. Dunbar</b>						
<b>Lot 6 7 9S</b>		<b>6E</b>	<b>1</b>							<b>Spudded 8-30-66 Drilling 4,000' Operations Suspended 2-28-67</b>

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold;  
No ..... runs or sales of gasoline during the month. (Write "no" where applicable.)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Thistle Dome** .....

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Utah** Field **Thistle Dome**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **MAR - 1967**, 19.....

Agent's address **P. O. Box 11368** Company **MOUNTAIN FUEL SUPPLY COMPANY**

**Salt Lake City, Utah 84111** Signed *J. Murphy*

Phone **328-8315** Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>Lot 6 7</b>	<b>9S</b>	<b>6E</b>	<b>1</b>		<b>Utah 0140866</b>	<b>J.M. Dunbar</b>				<b>Spudded 8-30-66 Drilling 4,000' Operations Suspended 3-31-67</b>

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold;

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

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT Thistle Dome

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Utah Field Thistle Dome

The following is a correct report of operations and production (including drilling and producing wells) for the month of APR - 1967, 19.....

Agent's address P. O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY

Salt Lake City, Utah 84111 Signed J. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>Lot 6 7</b>	<b>9S</b>	<b>6E</b>	<b>1</b>		<b>Utah 0140866 - J. M. Dunbar</b>					<b>Spudded 8-30-66</b> <b>Drilling 4000'</b> <b>Operations Suspended 4-30-67</b>

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold; No ..... runs or sales of gasoline during the month. (Write "no" where applicable.)

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

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
 DRILL       DEEPEN       PLUG BACK

b. TYPE OF WELL  
 OIL WELL       GAS WELL       OTHER Wildcat      SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
 Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
 P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 3382' FSL, 4545' FEL, Lot 6 sec. 7  
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 16 miles SE of Mapleton, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 725'      9810'

16. NO. OF ACRES IN LEASE  
 651.48

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 -

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 None

19. PROPOSED DEPTH  
 10,000'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 KB 6841.00'      GR 6829'

22. APPROX. DATE WORK WILL START\*  
 June 1, 1967

5. LEASE DESIGNATION AND SERIAL NO.  
 Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 -

7. UNIT AGREEMENT NAME  
 Thistle Dome Unit

8. FARM OR LEASE NAME  
 Unit Well

9. WELL NO.  
 1

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 7-9S-6E., SLB&M

12. COUNTY OR PARISH  
 Utah

13. STATE  
 Utah

**PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4	10-3/4	32.75	355.30'	230 sacks
7-7/8	5-1/2	17# & 20#	To be determined	- sufficient

We would like your permission to deepen the subject well to an estimated depth of 10,000'. We would drill from the older beds in thrust sheet into younger Cretaceous beds.

Blowout preventers to consist of a 10" series 900 double gate hydraulically operated preventer equipped with 4 1/2" rams in the top and blind rams in the bottom and a 10" series 900 Hydril preventer.

If commercial quantities of gas and/or oil are found, we would run 5 1/2" casing and use a 6" series 1500 hydraulically operated double gate preventer equipped with blind rams in the bottom and 2-3/8" tubing rams in the top and a 6" series 1500 hydraulically operated single gate preventer equipped with blind rams. We would pressure test casing and tubing rams to 4000 psi for 15 minutes using Halco pump truck and water.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED B. N. Croft TITLE General Manager, Production and Transmission DATE May 23, 1967

(This space for Federal or State office use)  
 PERMIT NO. Paul M. Burchell APPROVAL DATE \_\_\_\_\_  
 UTAH OIL & GAS CONSERVATION COMMISSION

APPROVED BY \_\_\_\_\_ TITLE Chief Petroleum Engineer DATE 5-25-67

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT Thistle Dome

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State Utah County Utah Field Thistle Dome

The following is a correct report of operations and production (including drilling and producing wells) for the month of MAY - 1967,

Agent's address P. O. Box 11368 Company MOUNTAIN FUEL SUPPLY COMPANY

Salt Lake City, Utah 84111 Signed J. Murphy

Phone 328-8315 Agent's title DIVISIONAL CHIEF ACCOUNTANT

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>Lot 6 7 95</b>	<b>6E</b>	<b>1</b>	<b>Utah 0140866 - J.M. Durbin</b>							<b>Spudded 8-30-66 Drilling 4,000' Operations Suspended May 31, 1967</b>

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold;

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

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah-0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Wildcat		7. UNIT AGREEMENT NAME Thistle Dome Unit
2. NAME OF OPERATOR Mountain Fuel Supply Company		8. FARM OR LEASE NAME Unit Well
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		9. WELL NO. 1
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 3382' FSL, 4545' FEL, Lot 6 sec. 7		10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO.		11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA 7-9S-6E., SLB&M
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6841.00' GR 6829'		12. COUNTY OR PARISH Utah
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*  
Depth 4280', drilling.

18. I hereby certify that the foregoing is true and correct  
 SIGNED BW Craft TITLE General Manager, Gas Supply Operations DATE June 19, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

7-9S-6E., SLB&M

12. COUNTY OR PARISH | 13. STATE

Utah

Utah

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 6841.00' GR 6829'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 5029', tripping.

18. I hereby certify that the foregoing is true and correct

SIGNED

*B. H. Craft Jr*

TITLE

General Manager,  
Gas Supply Operations

DATE

June 26, 1967

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

INDUSTRIAL COMMISSION OF UTAH

RIG SAFETY INSPECTION

Name of Company Mountain Fuel Supply Company Date July 20, 1967

Name of Drilling Contractor E. L. Manning

Well Name and Number Thiatic Dome #1 Rig No. 20 Field Wildcat

Section 7 Township 9 N Range 6 E

County Utah Driller Paul Hutchins

Number Present 3 Toolpusher Ray Jenkins

Any lost-time accidents while on location None (One man hurt by drilling - not serious)

Items causing lost-time accidents that have been corrected, or which need to be corrected.

None

Any new employees in crew No Have instructions been given the new crew members Yes  
(All had experience)

	(Good) <u>yes</u>	(Poor) <u>no</u>
Escape Line and Slide-----	<u>X</u>	<u>X (1)</u>
Ladders, Side Rails, Steps-----	<u>X</u>	<u>      </u>
Walk-Around Floor and Railing-----	<u>X</u>	<u>      </u>
Engines Guarded-----	<u>X</u>	<u>      </u>
Rotary Drive Guard-----	<u>X</u>	<u>      </u>
Fire Control Available-----	<u>X</u>	<u>X (2)</u>
General Housekeeping-----	<u>X</u>	<u>X (3)</u>
Hard Hats-----	<u>X</u>	<u>      </u>
First Aid Kit-----	<u>X</u>	<u>      </u>
Blowout Preventer Installed-----	<u>X (4)</u>	<u>      </u>
Cellar clean, No debris-----	<u>X</u>	<u>      </u>
Cathead-----	<u>X</u>	<u>      </u>
Safety belts available-----	<u>X</u>	<u>      </u>

Unsafe practices that might cause a mishap, and recommendations made for a safe method of doing the job. None visible (except for those noted below)

Engineer  
Drillers, Toolpushers or Drilling ~~operator's~~ reactions Bill Newton - Mt. Fuel Supply Company --- Very cooperative

Remarks Operations suspended Oct. 1966 and resumed June 14, 1967. (1) No escape line installed (2) Three extinguishers need to be recharged (All dead) (3) Two of drillers helpers working on floor without hard hats. (4) Blowout preventers checked every other day.

NOTE: Hole deviated 1 1/4" at 3910' - Plugged back to 4000'. Whipstocking new hole.

Deputy Inspector UTAH OIL & GAS CONSERVATION BOARD - PAUL W. BURGHELL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Thistle Dome**

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Utah** Field **Thistle Dome**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **JUN - 1967**, 19

Agent's address **P. O. Box 11368** Company **MOUNTAIN FUEL SUPPLY COMPANY**

**Salt Lake City, Utah 84111** Signed **E. Murphy**

Phone **328-8315** Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>Lot 6 7</b>	<b>9S</b>	<b>6E</b>	<b>1</b>							<b>Spudded 8-30-66</b> <b>Drilling 5,423'</b> <b>June 30th, 1967</b>
<del>UTAH 0140866 - J.M. Dunbar</del>										

NOTE.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold; No ..... runs or sales of gasoline during the month. (Write "no" where applicable.)

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

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

7-9S-6E., SLB&M

12. COUNTY OR PARISH 13. STATE

Utah

Utah

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO. - 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KB 6841.00' GR 6829'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input checked="" type="checkbox"/> Supplementary history	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*  
Depth 5724', drilling.

18. I hereby certify that the foregoing is true and correct  
SIGNED B.W. Craft TITLE General Manager, Gas Supply Operations DATE July 5, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

Whistle Dome Unit Well No. 1

July 4, 1967:

Depth 5627', 51', 22 days, pump 1200, table 110, wt on bit 6-7 tons, mud wt. 9.2, vis 50, sand content 3/4%, w/1 6.9, f/c 2/32, ph 8.1, oil 0%, solids 8%, bit no. 22 7-7/8" LW1 cut 4' from 5576' to 5580' in 2 $\frac{1}{4}$  hours, bit no. 23 7-7/8" OWVJ cut 47' from 5580' to 5627' in 9 hours, surveys 5580' 8 $\frac{1}{4}$ °, 5611' 8 $\frac{1}{4}$ °, drilling time 11 $\frac{1}{4}$  hours, lost time 12-3/4 hours--2-3/4 surveys; 10 fishing, box broke off leaving 10 drill collars in hole, ran in with overshot, recovered fish without any trouble, no mud lost last 24 hours. Drlg.

July 5, 1967:

Depth 5724', 97', 23 days, pump 1200, table 110, wt on bit 7 $\frac{1}{2}$  tons, mud wt. 9.1, vis 52, sand content 0%, w/1 6.2, 2% LCM, f/c 2/32, ph 8.2, oil 0%, solids 8%, bit no. 23 7-7/8" OWVJ cut 26' from 5627' to 5653' in 7 $\frac{1}{4}$  hours, bit no. 24 7-7/8" OSCJ cut 71' from 5653' to 5724' in 13 hours, survey 5653' 8 $\frac{1}{4}$ °, drilling time 20 $\frac{1}{4}$  hours, lost time 3-3/4 hours-- $\frac{1}{4}$  survey; 3 $\frac{1}{2}$  trip, have lost approximately 100 barrels mud last 24 hours, very slowly, now drilling with full returns. Drilling.

Whistle Dome Unit Well No. 1

June 27, 1967:

Depth 5156', 127', 15 days, pump 1400, table ~~69~~ 69, wt on bit 15 tons, mud wt 9, vis 49 sand content  $1\frac{1}{2}\%$ , w/1 6, f/c 2/32, ph 9, oil 0%, solids 8%, bit no. 13 7-7/8" SV2J cut 120' from 5029' to 5149' in 15 hours, bit no. 14 7-7/8" T2GJ cut 7' from 5149' to 5146' in 1 hour, survey 5156' 4+°, drilling time 16 hours, lost time 8 hours--~~6-3/4~~ 6-3/4 trips;  $1\frac{1}{4}$  surveys, ~~XXX~~ No mud lost last 24 hours. Drilling.

June 28, 1967:

Depth 5234', 78', 16 days, pump 1400, table 69-110, wt on bit  $12\frac{1}{2}$  tons, mud wt 9.3, vis 46, sand content  $\frac{1}{4}\%$ , w/1 6.6, f/c 2/32, ph 8.3, oil 0%, solids 10%, bit no. 14 7-7/8" K2PJ cut 63' from 5156' to 5219' in  $12\frac{1}{4}$  hours, bit no. 15 7-7/8" K2PJ cut 15' from 5219' to 5234' in 5 hours, survey 5219'  $5\frac{1}{4}^{\circ}$ , drilling time  $17\frac{1}{4}$  hours, lost time ~~6-3/4~~ 6-3/4 hours--1-3/4 replace chain on pump drive;  $1\frac{1}{2}$  surveys;  $3\frac{1}{2}$  trip, no mud lost. Drilling.

June 29, 1967:

Depth 5313', 79', 15 days, pump 1100, table 110, wt on bit 20 tons, mud wt 9, vis. 51, sand content  $\frac{1}{4}\%$ , w/1 6.8, f/c 2/32, ph 8.2, oil 0%, solids ~~X~~ 9.5%, bit no. 15 7-7/8" K2PJ cut 25' from 5234' to 5259' in 8 hours, bit no. 16 7-7/8" SV2J cut 54' from 5259' to 5313' in 11-3/4 hours, survey 5259' 6°, drilling time 19-3/4 hours, lost time  $4\frac{1}{4}$  hours-- $\frac{1}{2}$  survey; 3-3/4 trip. Lost 70 barrels mud last 24 hours, now have full returns. Drilling.

June 30, 1967:

Depth 5365', 52', 18 days, pump 1200, table 150, wt. on bit 5 tons, mud wt. 9.2, vis. 48, sand content  $\frac{1}{4}\%$ , w/1 6.8, f/c 2/32, ph 8.2, oil 0%, solids 10%, bit no. 16 7-7/8" SV2J cut 7' from 5313' to 5320' in 2 hours, bit no. 17 7-7/8" K2PJ cut 41' from 5320' to 5361' in 10 hours, bit no. 18 7-7/8" C2J cut 4' from 5361' to 5365' in 3 hours, surveys 5320' 6°, 5361'  $7\frac{1}{2}^{\circ}$ , drilling time 15 hours, lost time 9 hours--3/4 surveys; 3/4 cut drilling line;  $7\frac{1}{2}$  trips, both of the surveys were dropped, they will run one on the wireline next Kelly down. Drilling.

July 1, 1967:

Depth 5423', 58', 19 days, pump 1300, table 110, wt on bit 10 tons, mud wt. 9.2, vis. 47, sand content  $3/4\%$ , w/1 6.2, f/c 2/32, ph 8.3, oil 0%, solids 8%, bit no. 18 7-7/8" C2J cut 19' from 5365' to 5384' in  $7\frac{1}{4}$  hours, bit no. 19 7-7/8" SV2J cut 39' from 5384' to 5423' in  $9\frac{1}{2}$  hours, surveys 5350' 6°, 5384'  $6\frac{1}{4}^{\circ}$ , 5420' 6-3/4°, drilling time 16-3/4 hours, lost time  $7\frac{1}{4}$  hours-- $3\frac{1}{4}$  surveys;  $3\frac{1}{4}$  trip; 3/4 repairs to drawworks, no mud lost last 24 hours. Drilling.

July 2, 1967:

Depth 5515', 92', 20 days, pump 1200, ~~XXXXXX~~ table 110, wt on bit  $12\frac{1}{2}$  tons, mud wt. 9.3, vis. 47, sand content  $\frac{1}{2}\%$ , w/1 6, f/c 2/32, ph 8.5, oil 0%, solids 8%, bit no. 19 7-7/8" SV2J cut 11' from 5423' to 5434' in 3-3/4 hours, bit no. 20 7-7/8" OWVJ cut 81' from 5434' to 5515' in 15 hours, survey 5461'  $6\frac{1}{4}^{\circ}$ +, drilling time 18-3/4 hours, lost time  $5\frac{1}{4}$  hours--4 trip; 3/4 survey;  $\frac{1}{2}$  trip out with bit no. 30, no mud lost last 24 hours. Trip.

July 3, 1967:

Depth 5576', 61', 21 days, pump 700, table 154, wt on bit  $7\frac{1}{2}$  tons, mud wt. 9.2, vis. 46, sand content  $3/4\%$ , w/1 6, f/c 2/32, ph 8.2, oil 0%, solids  $8\frac{1}{2}\%$ , bit no. 21 7-7/8" OWVJ cut 41' from 5515' to 5556' in  $11\frac{1}{4}$  hours, bit no. 22 7-7/8" LW1 cut 20' from 5556' to 5576' in 5 hours, surveys 5515' wire 8°, 5556' drop  $8\frac{1}{2}^{\circ}$ , drilling time  $16\frac{1}{4}$  hours, lost time 7-3/4 hours-- $6\frac{1}{2}$  trips;  $1\frac{1}{4}$  surveys. No mud lost last  $\frac{1}{4}$  24 hours. Drilling.

Whistle Dome Unit Well No. 1

June 20, 1967:

Depth 4435', 155', 8 days, pump 800, table 65, wt on bit 18-20 tons, mud wt. 9, vis. 48, sand content 0%, w/1 7.8, f/c 2/32, ph 8, oil 0%, solids 8%, bit no. 4 7-7/8" OSC1GJ cut 155' from 4280' to 4435' in 20 hours, surveys 4273' 5°, 4345' 5 $\frac{1}{4}$ °, 4435' 5-3/4°, drilling time 20 hours, lost time 4 hours--1 $\frac{1}{2}$  surveys; 1-3/4 trip out, 3/4 clean mud tanks, have lost approx. 150 barrels mud last 24 hours, no rain. Trip.

June 21, 1967:

Depth 4562', 127', 9 days, pump 800, table 80, wt on bit 20 tons, mud wt 9.1, vis. 45, sand content 1/5%, w/1 6.6, f/c 2/32, ph 8, oil 0%, solids 6%, bit no. 5 7-7/8" OSC1GJ cut 127' from 4435' to 4562' in 18 $\frac{1}{4}$  hours, 2% LCM, surveys 4470' 5°, 4532' 4°, drilling time 18 $\frac{1}{4}$  hours, lost time 5-3/4 hours--3 $\frac{1}{2}$  mix mud; 1 $\frac{1}{4}$  trip in hole; 1 surveys. No mud lost last 24 hours, no rain last 24 hours. Drilling.

June 22, 1967:

Depth 4661', 99', 10 days, pump 800, table 80, wt on bit 20 tons, mud wt 9.1, vis 45, sand content  $\frac{1}{2}$ %, w/1 6.6, f/c 2/32, ph 8, oil 0%, solids 7%, bit no. 5 7-7/8" OSC1GJ cut 18' from 4562' to 4580' in 3 hours, bit no. 6 7-7/8" OSC1GJ cut 81' from 4580' to 4661' in 10 hours, survey 4585' 3 $\frac{1}{2}$ °, drilling time 13 hours, lost time 11 hours--5 trip for bit #6; 3/4 survey; 3/4 lost all returns at 4660'; 1-3/4 trip out; 2-3/4 mix mud and 15 to 20% LCM, fill hole, lost approx. 700 barrels, have hole full now and are going in to drill. Trip & lost circulation.

June 23, 1967:

Depth 4794', 133', 11 days, pump 800, table 100, wt on bit 20 tons, mud wt. 9.1, vis. 45, sand content  $\frac{1}{2}$ %, w/1 8, f/c 2/32, ph ;8, oil 0%, solids 6%, bit no. 7 7-7/8" K2P cut 100' from 4661' to 4761' in 12-3/4 hours, bit no. 8 7-7/8" DT2G cut 33' from 4761' to 4794' in 5 hours, surveys 4678' 2 $\frac{1}{4}$ °, 4761' 2 $\frac{1}{4}$ °, drilling time 17-3/4 hours, lost time 6 $\frac{1}{4}$  hours-- $\frac{1}{4}$  fill hole with mud added 12 sacks cedar plug, took 50 barrels to fill hole; 1 $\frac{1}{2}$  trip in hole with bit #7; 3/4 surveys; 3-3/4 trip, lost approx. 30 barrels mud during the trip for bit #7, have not lost any mud since, no rain. Drilling.

June 24, 1967:

Depth 4872', 78', 12 days, pump 950, table 68, wt on bit 25 tons, mud wt. 9.2, vis. 47, sand content 1%, w/1 8, 50% LCM, f/c 2/32, ph 8, oil 0%, solids 7%, bit no. 8 7-7/8" DT2G cut 26' from ~~579~~ 4794' to 4820' in 5-3/4 hours, bit no. 9 7-7/8" SV2J cut 52' from 4820' to 4872' in 11 hours, survey 4820' 2°, drilling time 16-3/4 hours, lost time 7 $\frac{1}{4}$  hours-- $\frac{1}{2}$  surveys; 5 trip cut drilling line. Pick up 5 more collars, 26 total; 1-3/4 pull bit #9, lost approx 75 barrels mud last 24 hours, no rain. Trip.

June 25, 1967:

Depth 4944', 72', 13 days, pump 950, table 68, wt on bit 25 tons, mud wt. 9.5, vis. 56, sand content 2%, w/1 6.2, 2% LCM, f/c 2/32, ph 9, oil 0%, solids 10%, bit no. 10 7-7/8" OWCJ cut 49' from 4872' to 4921' in 10-3/4 hours, bit no. 11 7-7/8" T2J cut ~~4900~~ 23' from 4921' to 4944' in 7 hours, surveys 4891' 1°, 4921' 1-3/4°, drilling time 17-3/4 hours, lost time 6 $\frac{1}{4}$  hours--2 $\frac{1}{4}$  trip in hole; 3/4 surveys; 3 $\frac{1}{4}$  trip. No mud lost last 24 hours, no rain. Drilling.

June 26, 1967:

Depth 5029', 85', 14 days, pump 950, table 80, wt on bit 25 tons, mud wt. 9.3, vis. 40, sand content 1-3/4%, w/1 6.7, f/c 2/32, ph 9, oil 0%, solids 8%, bit no. 11 7-7/8" TCJ cut 2' from 4944' to 4946' in 1 hour, bit no. 12 7-7/8" SVJ cut 83' from 4946' to 5029' in 16-3/4 hours, survey 4946' mis run, drilling time 17-3/4 hours, lost time 6 $\frac{1}{4}$  hours-- $\frac{1}{2}$  survey; 4-3/4 trip; 1 pull bit No. 12, no mud lost, no rain. Trip.

Thistle Dome Unit Well No. 1 open

R. L. Manning Company awarded contract to deepen subject well.

June 13, 1967:

depth 4000', lost time 24 hours, 1 day--15 rigging up; 7 drill rat and mouse hole. It has been raining since noon yesterday, roads are muddy.

June 14, 1967:

Depth 4000', 2 days, pump 500, mud wt. 8.6, vis. 38, sand content 0%, w/1 12.4, f/c 2/32, ph 8.8, oil 0%, solids 0%, bit no. 1 7-7/8" SV2J with jets out circulate, lost time 24 hours--1 finish drilling mouse hole; 2½ rig up floor; 2½ pick up fifteen 5-3/4" drill collars; 5 mix mud; 6 pick up drill pipe break circulation each 500' got to 2240' and bearing on pump drive in compound went out, had not hit anything to that point; 2 trip out; 5 repairs to compound. Still raining and roads are almost impassable. Repairs to compound.

June 15, 1967:

Depth 4000', 0', 3 days, lost time 24 hours--24 repairing compound bearing, should be ready to go by 9:00 AM, still raining.

June 16, 1967:

Depth 4020', 20', 4 days, pump 500, table 65, wt on bit 14 tons, mud wt. 8.7, vis. 42, sand content 0%, w/1 9.1, f/c 2/32, ph 8, oil 0%, solids 6%, bit no. 1 7-7/8" SV2J cut 20' from 4000' to 4020' in 7 hours, lost time 17 hours--2 repair compound bearing; 1 trip in to 2240; 7½ pick up drill pipe, break circulation, lack 500' had to drill the last 3 singles down; 2½ circulate on bottom, mix mud for volume, lost approx 50 barrels mud at 4019 after repairing the compound bearing, they went in the hole to 2240 and started to circulate, the bearing went out again, they rigged up the desander to mix mud and used 1 pump to drill with. They will pull out of the hole and mix more mud then go back and ~~start~~ start drilling. Drilling.

June 17, 1967:

Depth 4060', 40', 5 days, pump 1000, table 65, wt on bit 14 tons, mud wt 9.7, vis. 40, sand content 0%, w/1 8.6, f/c 2/32, ph 8, oil 0%, solids 5½%, bit no. 1 7-7/8" Smith SV-2-J cut 17' from 4020' to 4037' in 5½ hours, bit no. 2 7-7/8" HTC OSC-J cut 23' from 4037' to 4060' in 5¼ hours, survey 4037' 5°, drilling time 10-3/4 hours, lost time 13¼ hours--2 trip out of hole; 2½ mix complete pit of mud; 1¼ motor repairs; 1¼ trip into hole; ¼ survey; 1¼ trip out of hole; 2 repair chain in draw works; 1 finish trip out of hole; 3/4 trip in hole with new bit. Drilling.

June 18, 1967:

Depth 4160', 100', 6 days, pump 800, table 65, wt on bit 8 tons, mud wt 8.9, vis. 40, sand content 0%, 4% LCM, w/1 8.6, f/c 2/32, ph 8, oil 0%, solids 7%, bit no. 2 7-7/8" OSCJ cut 96' from 4060' to 4156' in 19¼ hours, bit no. 3 7-7/8" OSC1GJ cut 4' from 4156' to 4160' in 1½ hours, drilling time 20-3/4 hours, lost time 3¼ hours--¼ survey; 3 trip, have lost approx. 200 barrels mud last 24 hours, has not rained last 24 hours. Drilling.

June 19, 1967:

Depth 4280', 120', 7 days, pump 800, table 65, wt on bit 18 tons, mud wt 9, vis. 42, sand content 0%, w/1 8, f/c 2/32, ph 8, oil 0%, solids 8%, bit no. 3 7-7/8" OSC1GJ cut 109' from 4160' to 4269' in 17½ hours, bit no. 4 7-7/8" OSC1GJ cut 11' from 4269' to 4280' in 1-3/4 hours, surveys 4160' 5°, 4250' 5°, drilling time 19¼ hours, lost time 4-3/4 hours--3/4 surveys; 4 trip and pick up six drill collars, total 21 now, no mud lost, no rain last 24 hours. Drilling.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.  
Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
-

7. UNIT AGREEMENT NAME  
Thistle Dome Unit

8. FARM OR LEASE NAME  
Unit Well

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Thistle Dome

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
7-9S-6E., SLB&M

12. COUNTY OR PARISH  
Utah

13. STATE  
Utah

1a. TYPE OF WORK  
DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER   
SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7  
At proposed prod. zone  
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
16 miles SE of Mapleton, Utah

16. NO. OF ACRES IN LEASE  
651.48

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
none

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
GR 6829'

16. NO. OF ACRES IN LEASE  
651.48

17. NO. OF ACRES ASSIGNED TO THIS WELL  
-

19. PROPOSED DEPTH  
3500'

20. ROTARY OR CABLE TOOLS  
Rotary

22. APPROX. DATE WORK WILL START\*  
August 25, 1966

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	10-3/4"	32.75#	350	230 sacks
7-7/8"	4-1/2"	11.6#	3500	sufficient

We would like your permission to drill the subject well to an estimated depth of 3500'. Anticipated formation tops are as follows: North Horn at the surface and undifferentiated Mesaverde at 3050'.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED B.W. Craft TITLE General Manager, Production and Transmission DATE July 8, 1966

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Wildcat</p> <p>2. NAME OF OPERATOR Mountain Fuel Supply Company</p> <p>3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 3382' FSL, 4545' FEL, Lot 6 sec. 7</p>	<p>7. UNIT AGREEMENT NAME Thistle Dome Unit</p> <p>8. FARM OR LEASE NAME Unit Well</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 7-9S-6E., SLB&amp;M</p>		
<p>14. PERMIT NO. -</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6841.00' GR 6829'</p>	<p>12. COUNTY OR PARISH Utah</p>	<p>13. STATE Utah</p>

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u>	<input checked="" type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 5060', drilling.

Had drilled to 5910' and while coming out of hole drill bit came off, found bit at 2923', pushed it down hole to 5275', laid 85 sack cement plug to correct crooked hole, top of cement at 4930', now drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED B. N. Croft TITLE General Manager,  
Gas Supply Operations DATE July 11, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Wildcat</u></p> <p>2. NAME OF OPERATOR <u>Mountain Fuel Supply Company</u></p> <p>3. ADDRESS OF OPERATOR <u>P. O. Box 1129, Rock Springs, Wyoming 82901</u></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>3382' FSL, 4545' FEL, Lot 6 sec. 7</u></p> <p>14. PERMIT NO. <u>—</u></p>	<p>5. LEASE DESIGNATION AND SERIAL NO. <u>Utah 0140866</u></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME <u>—</u></p> <p>7. UNIT AGREEMENT NAME <u>Thistle Dome Unit</u></p> <p>8. FARM OR LEASE NAME <u>Unit Well</u></p> <p>9. WELL NO. <u>1</u></p> <p>10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u></p> <p>11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA <u>7-9S-6E., SLB&amp;M</u></p> <p>12. COUNTY OR PARISH <u>Utah</u> 13. STATE <u>Utah</u></p> <p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>KB 6841.00' GR 6829'</u></p>
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18. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 5,113' PB, tripping in with turbodrill and 2° bent sub.

Attempted to correct crooked hole. Bit went into old hole. Laid cement plug from 5250-4950' with 102 sacks cement. Now trying to straighten crooked hole.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Craft Jr TITLE General Manager, Gas Supply Operations DATE July 18, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTED OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

3382' FSL, 4545' FEL, Lot 6 sec. 7

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

7-9S-6E., SLB&M

14. PERMIT NO.

-

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 6841' GR 6829'

12. COUNTY OR PARISH

Utah

13. STATE

Utah

16.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO :

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF :

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 5295', drilling in new hole after plugging back crooked hole.

18. I hereby certify that the foregoing is true and correct

SIGNED B. H. Craft Jr

TITLE General Manager,  
Gas Supply Operations

DATE July 26, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY :

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Thistle Dome**

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Utah** Field **Thistle Dome**  
The following is a correct report of operations and production (including drilling and producing wells) for the month of **JUL 1967**, 19.....  
Agent's address **P. O. Box 11368** Company **MOUNTAIN FUEL SUPPLY COMPANY**  
**Salt Lake City, Utah 84111** Signed **J. Murphy**  
Phone **328-8315** Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>Lot 6 7</b>	<b>9S</b>	<b>6E</b>	<b>1</b>							<b>Spudded 8-30-66 Drilling 19,407 July 31st, 1967</b>

**UTAH 9140266 J.M. DUNBAR**

Note.—There were ..... runs or sales of oil; ..... M cu. ft. of gas sold;

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

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

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input type="checkbox"/> OIL WELL    <input type="checkbox"/> GAS WELL    <input type="checkbox"/> OTHER <u>Wildcat</u></p> <p>2. NAME OF OPERATOR <u>Mountain Fuel Supply Company</u></p> <p>3. ADDRESS OF OPERATOR <u>XXXX P. O. Box 1129, Rock Springs, Wyoming 82901</u></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>3382' FSL, 4545' FEL, Lot 6 sec. 7</u></p>		<p>5. LEASE DESIGNATION AND SERIAL NO. <u>Utah 0140866</u></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME -</p> <p>7. UNIT AGREEMENT NAME <u>Thistle Dome Unit</u></p> <p>8. FARM OR LEASE NAME <u>Unit Well</u></p> <p>9. WELL NO. <u>1</u></p> <p>10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>7-0S-6E, SLB&amp;M</u></p> <p>12. COUNTY OR PARISH    13. STATE <u>Utah</u>                      <u>Utah</u></p>
<p>14. PERMIT NO. -</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>KB 6841'    GR 6829'</u></p>	

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	PULL OR ALTER CASING	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	MULTIPLE COMPLETE	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	ABANDON*	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	CHANGE PLANS	<input type="checkbox"/>
(Other)			
		WATER SHUT-OFF	<input type="checkbox"/>
		FRACTURE TREATMENT	<input type="checkbox"/>
		SHOOTING OR ACIDIZING	<input type="checkbox"/>
		(Other) <u>Supplementary history</u>	<input checked="" type="checkbox"/>
		REPAIRING WELL	<input type="checkbox"/>
		ALTERING CASING	<input type="checkbox"/>
		ABANDONMENT*	<input type="checkbox"/>

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 5985', drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft TITLE General Manager, Gas Supply Operations DATE August 7, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT--" for such proposals.)

1.

OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

3382' FSL, 4545' FEL Lot 6 sec. 7

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

7-9S-6E., SLB&M

14. PERMIT NO.

-

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 6841.00' GR 6829'

12. COUNTY OR PARISH

Utah

13. STATE

Utah

16.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

Supplementary history

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Depth 6985', drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED

B. W. Croft

TITLE

General Manager,  
Gas Supply Operations

DATE

August 15, 1967

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Bob Myers - Ant. Fuel. - 4" S.D. S 0H  
Thirtledome

T.P. - 820 7-  
Paci Davis - 1990 → times shale  
Anchor - 1990 → limestone  
Haynes - 6225 → self - m &  
Woodside - 8110 → self - m &

355 of 10 3/8" surface Pipe.  
No shows - 6 at 6044 - 6072  
Density Log.

- ① 6275 - 6175 - across top of Haynes!
- ② 4100 - 4000 - Middle of ~~Anchor~~ Anchor
- ③ 2000 - 1900 - Top of ~~Anchor~~ Anchor
- ④ 310 - 4000 - 1/2 in. E 1/2 at
- ⑤ 540 sbl/mud / mud bottom all plays.

August 2<sup>nd</sup>, 1967  
JWB

sec 7 T 9 S R G E  
Utah County

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN REPLICATED  
(Other instructions on re-  
verse side)

Form approved  
Budget Project No. 49-21491  
LEADS REGISTRATION AND SERIAL NO.

Utah 0140866  
UNIT AGREEMENT NAME  
Whistle Dome Unit  
WELL OR LEAD NAME  
Unit Well  
WELL NO.  
1  
FIELD AND POOL, OR WILDCAT  
Wildcat  
SEC. T. 24 N. 08. 08. 08. AND  
SURVEY OR AREA  
06E SLB&M  
COUNTY OR PARISH  
Utah  
STATE

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO. \_\_\_\_\_

15. ELEVATIONS (Show whether SW, SE, OR, etc.)  
KB 6841.00' GR 6829'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REGULATING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ABANDONING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input checked="" type="checkbox"/> Supplementary History	<input checked="" type="checkbox"/>

(Note: Report results of multiple completion operations on Well Completion or Recombination Report and Log Form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated dates of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and record pertinent to this work.)\*

Depth 7666', drilling.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft TITLE General Manager, Gas Supply Operations DATE August 21, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THIS MANNER\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA

7-9S-6E., SLE&M

12. COUNTY OR PARISH

Utah

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, GR, etc.)

KB 6841.00' GR 6829'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion of Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Total depth 8207'.

Verbal approval to plug and abandon the subject well was granted by Mr. Rodney Smith of the U.S.G.S. and Mr. Paul Burchell of the Utah Oil & Gas Conservation Commission during a telephone conversation Mr. R. G. Myers on August 26, 1967. The well to be plugged as follows:

- Plug No. 1: 6275'-6175', 30 sacks
- Plug No. 2: 4100'-4000', 30 sacks
- Plug No. 3: 2000'-1900', 30 sacks
- Plug No. 4: 400'-300', 40 sacks
- Plug No. 5: 5 sacks in top of surface casing.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft

General Manager

TITLE Gas Supply Operations

DATE August 28, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

LAND OFFICE .....  
LEASE NUMBER .....  
UNIT **Thistle Dome** .....

**LESSEE'S MONTHLY REPORT OF OPERATIONS**

State **Utah** County **Utah** Field **Thistle Dome**

The following is a correct report of operations and production (including drilling and producing wells) for the month of **AUG - 1967**, 19.....

Agent's address **P. O. Box 11368** Company **MOUNTAIN FUEL SUPPLY COMPANY**  
**Salt Lake City, Utah 84111** Signed *E. Murphy*

Phone **328-8315** Agent's title **DIVISIONAL CHIEF ACCOUNTANT**

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
<b>Lot 6</b>	<b>7</b>	<b>9S</b>	<b>6E</b>	<b>1</b>	<del>UTAH 0140866</del>	<del>L.M. SERRAR</del>				<b>Spudded 8-30-66 TD 8,207 P &amp; A August 28, 1967</b>

NOTE.—There were **XX** 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.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

7-9S-6E., SLB&M

12. COUNTY OR PARISH  
Utah

13. STATE  
Utah

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 3382' FSL, 4545' FEL Lot 6 sec. 7

At top prod. interval reported below Same

At total depth Same

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED 8-30-66  
16. DATE T.D. REACHED 8-25-67  
17. DATE COMPL. (Ready to prod.) 8-28-67

18. ELEVATIONS (OF, RKB, RT, GR, ETC.)\* KB 6841' GR 6829'  
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 8207'

21. PLUG, BACK T.D., MD & TVD

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
Dry and abandoned

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Continuous Dipmeter, IE Log, BHC Sonic Log-Gamma Ray

27. WAS WELL CORED  
Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10-3/4	32.75	355.30	13-3/4	230 sacks	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30. TUBING RECORD		
					SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

Operations suspended 10-20-66 at 4000'  
Operations resumed 6-13-67

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
Dry							
DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Continuous Dipmeter, IE Log, BHC Sonic Log-Gamma Ray, Completion Report, Well Lithology

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED B. H. Croft

TITLE General Manager,  
Gas Supply Operations

DATE October 25, 1967

\*(See Instructions and Spaces for Additional Data on Reverse Side)

FORM OGCC-8-X  
FILE IN QUADRUPLICATE

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION  
348 EAST SOUTH TEMPLE  
SUITE 301  
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Thistle Dome Unit Well No. 1  
Operator Mountain Fuel Supply Address Salt Lake City Phone 328-8315  
Willard Pease Company (4000')  
Contractor R. L. Manning Company (Deepened) Address \_\_\_\_\_ Phone \_\_\_\_\_  
Location Lot 6  
1/4 1/4 Sec. 7 T. 9 ~~N~~ R. 6 E Utah County, Utah.  
S ~~S~~

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. 17'	31'		X
2. 811'	911'	70 bbls./hr.	Fresh
3. 911'	1100'	200 bbls./hr.	X
4. 1100'	1384'	300 bbls./hr.	X
5.			

(Continued on reverse side if necessary)

Formation Tops: Surface North Horn-Price River  
1970' Ankareh  
6225' Thaynes  
8110' Woodside

Remarks:

- NOTE: (a) Upon diminishing supply of forms, please inform the Commission.  
(b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See back of form).  
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

COMPLETION REPORT

Operator: Mountain Fuel Supply Company

Well: Thistle Dome Unit Well #1

Area: Thistle Dome

Location: 3382' FSL, 4545' FEL, Section 7, Township 9 South, Range 6 East, Utah  
County, Utah

Elevation: 6841' Kelly Bushing; 6829' Ground

Drilling Commenced: August 30, 1966

Drilling Suspended: October 19, 1966 - Total Depth: 4000'

Rig Released: October 20, 1966

Hole Reentered: Drilling Commenced June 15, 1967

Drilling Completed: August 28, 1967, - Total Depth: 8207'

Rig Released: August 28, 1967

Tops: Price River Surface  
Ankareh 1970'  
Thaynes 6225'  
Woodside 8110'

Logging: I-E Log, Sonic, Gamma Ray, Caliper; Dipmeter--355'-4000'  
Rocky Mountain Engineering Company, 1391'-4000'  
Long Engineering Company, 4000'-Total Depth  
Wet and dry cuts saved

Total Depth: 8207' Driller; 8215' Logger

Casing: 10-3/4" landed at 355.30' KBM with 230 sacks

Remarks: Dry and abandoned. Air drilled from surface to 1391'. No tests.

Cores: No. 1 - 3450'-3509' Cut 59' Rec. 59'  
No. 2 - 3972'-4000' Cut 28' Rec. 28'  
No. 3 - 6341'-6354' Cut 13' Rec. 13'  
No. 4 - 6354'-6361' Cut 7' Rec. 3'  
No. 5 - 8177'-8207' Cut 30' Rec. 30'

Plugs: No. 1 - 6275'-6175' 30 sacks  
No. 2 - 4100'-4000' 30 sacks  
No. 3 - 2000'-1900' 30 sacks  
No. 4 - 400'-300' 40 sacks  
No. 5 - 5 sacks in surface casing

JRP:cw  
8/29/67

cc: J. E. Adney  
R. M. Ball  
G. D. Baston  
D. W. Elias  
E. A. Farmer, Jr.  
S. J. Fisher  
L. W. Folsom  
V. B. Gras  
J. M. Hummel

Mildred Jensen  
K. A. Loya  
R. G. Myers  
D. L. Reese  
W. W. Skeeters  
J. W. Toth  
Paul Zubatch (6)  
Development Section

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Thistle Dome Unit

8. FARM OR LEASE NAME  
Unit Well

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA

7-9S-6E., SLE&M

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KB 6841.00' GR 6829'

12. COUNTY OR PARISH 13. STATE  
Utah Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDISE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Supplementary history

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion of Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Total depth 8207'.

Verbal approval to plug and abandon the subject well was granted by Mr. Rodney Smith of the U.S.G.S. and Mr. Paul Burchell of the Utah Oil & Gas Conservation Commission during a telephone conversation Mr. R. G. Myers on August 26, 1967. The well to be plugged as follows:

- Plug No. 1: 6275'-6175', 30 sacks
- Plug No. 2: 4100'-4000', 30 sacks
- Plug No. 3: 2000'-1900', 30 sacks
- Plug No. 4: 400'-300', 40 sacks
- Plug No. 5: 5 sacks in top of surface casing.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft

General Manager

TITLE Gas Supply Operations

DATE August 28, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA

7-9S-6E., SLB&M

12. COUNTY OR PARISH 13. STATE

Utah Utah

1. OIL WELL  GAS WELL  OTHER  Wildcat

2. NAME OF OPERATOR  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

3382' FSL, 4545' FEL, Lot 6 sec. 7

14. PERMIT NO.

-

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 6841.00' GR 6829.00'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Total depth 8207', rig released on August 28, 1967 at 7:00 A.M., well plugged and abandoned as follows:

- Plug No. 1: 6275'-6175', 30 sacks
- Plug No. 2: 4100'-4000', 30 sacks
- Plug No. 3: 2000'-1900', 30 sacks
- Plug No. 4: 400'-300', 40 sacks
- Plug No. 5: 5 sacks in top of surface casing.

A U.S.G.S. regulation abandonment marker will be installed at a later date and location cleaned.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Craft, Jr.

TITLE General Manager,  
Gas Supply Operations

DATE August 31, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0140866

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL WELL  GAS WELL  OTHER Wildcat

2. NAME OF OPERATOR

Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

3382' FSL, 4545' FEL, Lot 6 sec. 7

7. UNIT AGREEMENT NAME

Thistle Dome Unit

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

7-9S-6E., S1B&M

14. PERMIT NO.

-

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 6841.00' GR 6829.00'

12. COUNTY OR PARISH

Utah

13. STATE

Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

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- Plug No. 3: 2000'-1900', 30 sacks
- Plug No. 4: 400'-300', 40 sacks
- Plug No. 5: 5 sacks in top of surface casing.

A U.S.G.S. regulation abandonment marker will be installed at a later date and location cleaned.

18. I hereby certify that the foregoing is true and correct

SIGNED B. W. Croft, Jr.

TITLE

General Manager,  
Gas Supply Operations

DATE August 31, 1967

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

