

FILE NOTATIONS

Entered in MID File ✓
 Location Map Pinned ✓
 Card Indexed ✓

Checked by Chief *MB*
 Approval Letter 1-16-73
 Disapproval Letter

COMPLETION DATA:

Date Well Completed 1-13-73

Location Inspected

I..... WI..... TA.....
 W..... OS..... EA.....

Bond released

State or Fee Land

LOGS FILED

Driller's Log..... ✓
 Electric Logs (No.) ✓

E..... I..... Dual I Lat..... GR-N..... Micro.....

MC Sonic GR..... Lat..... MI-L..... Sonic.....

CBLog..... CCLog..... Others.....

275 NW 9

43-021-20002

INTEROFFICE COMMUNICATION

R. G. MYERS

FROM R. G. Myers

Rock Springs, Wyoming
CITY STATE

To B. W. Croft

DATE August 9, 1972

SUBJECT Tentative Plan to Drill
Shurtz Creek Well No. 1
Iron County, Utah

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis dated June 19, 1972.

RGM/gm

Attachment

cc: J. T. Simon
L. A. Hale (6)
J. E. Adney
Geology (2)
D. E. Dallas (4)
C. F. Rosene
A. A. Pentila
U.S.G.S.
State 
Paul Zubatch
P. E. Files (4)

DEVELOPMENT PLAN
FOR
U.S.G.S. APPROVAL
OF
SURFACE USE
MOUNTAIN FUEL DRILLING WELLS

Well Name Shurtz Creek Well #1

Field or Area NE $\frac{1}{4}$ Sec. 9, T.37S., R.11W.

1. Existing roads.
Refer to attached map drawing No. M-10974.
2. Planned access roads.
Refer to attached map drawing No. M-10973.
3. Location of wells.
None in near vicinity.
4. Lateral roads to well locations.
Refer to attached map drawing No. M-10974.
5. Location of tank batteries and flowlines.
None
6. Location and types of water supply.
Water for drilling this well will be hauled by tank truck from Cedar City Corporation.
7. Methods of handling waste disposal.
Refer to attached map drawing No. M-10973.
8. Location of camps.
None
9. Location of airstrips.
None
10. Location layout to include position of the rig, mud tanks, reserve pits, burn pits, pipe racks, etc.
Refer to attached map drawing No. M-10973.
11. Plans for restoration of the surface.
After drilling operations, the well site will be cleared and cleaned and all sumps filled in. Should the well be a dry hole, the new access roads in the vicinity of the well and the well site will be abandoned and surfaces restored to the extent practicable and seeded. Should the well be a producer, areas of non-use will be restored and reseeded.
12. Any other information which the Approving Official considers essential to his assessment of the impact on the environment.
An on the site meeting with Jerry Daniels, U.S.G.S. representative and Mr. Maxwell, the B.L.M. representative, was held on July 7, 1972. Both men gave their approval to plans for building the location and access road.

cc: P. Zubatch (4)
D. E. Dallas
A. A. Pentila

Signed *J. B. Cassicalus*
Civil Engineer

From: T. M. Colson

Rock Springs, Wyoming

To: R. G. Myers

August 9, 1972

Tentative Plan to Drill
Shurtz Creek Well No. 1
Iron County, Utah

This well will be drilled by _____ Drilling Company using a contract rig. One work order has been originated for the drilling and completion of the well, namely 21031-2, Drill Shurtz Creek Well No. 1, located in Iron County, Utah. This well will be drilled to a total depth of 6000 feet and 5-1/2-inch O.D. casing run. The well will be drilled to test the Cambrian formation.

1. Drill 17-1/2-inch hole to approximately 525 feet KBM.
2. Run and cement approximately 500 feet of 13-3/8-inch O.D., 48-pound, H-40, 8 round thread, ST&C casing. The casing will be cemented with 603 sacks of regular Type "G" cement which represents theoretical requirements plus 100 percent excess cement for 13-3/8-inch O.D. casing in 17-1/2-inch hole with cement returned to surface. Cement will be treated with 2834 pounds of Dowell D43A. Plan on leaving a 10-foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the surface casing should be landed in such a manner that the top of the 12-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 100 barrels of mud. Capacity of the 13-3/8-inch O.D., 48-pound casing is 78 barrels.
3. After a WOC time of 6 hours, remove the landing joint and wash off casing collar. Install a NSCo. Type "B" 12-inch 3000 psi regular duty casing flange tapped for 13-3/8-inch O.D., 8 round thread casing. Install a 2-inch extra heavy nipple, 6-inches long, and a Nordstrom Figure 824 (800 psi WOG, 1600 psi test) valve on one side outlet of the casing flange and a 2-inch

extra heavy bull plug in the opposite side. Install a 12-inch 3000 psi double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top and a 12-inch 3000 psi rotating preventer. After a WOC time of 12 hours, pressure test surface casing, all preventer rams, and Kelly-cock to 1000 psi for 15 minutes using rig pump and drilling mud. The burst pressure rating for 13-3/8-inch O.D., 48-pound, H-40, 8 round thread, ST&C casing is 1730 psi.

4. Go in hole with 8-3/4-inch bit and adequate drill collars. Displace water with gas from the surface casing. After inside of casing is dry and after a WOC time of 12 hours, drill out cement and guide shoe. Drill ahead to total depth of 6000 feet or to such other depth as may be recommended by the Geological Department. After formation gas is encountered, gauge the gas flow and continue to gauge formation gas after each 30 feet of hole is drilled. A one man logging unit will be on location from below surface pipe to total depth to gauge water and gas and to check samples. Have a detergent injection system installed and if formation water in sufficient quantity is encountered, begin injecting a detergent-water mixture into the drilling gas system in the correct proportions in order to continue gas drilling. Surveys should be run to control the deviation. A Mission 5-1/4-inch O.D. hammerdrill will be used during gas drilling operations. Anticipated formation tops are as follows:

| | <u>Approximate Depth</u> <u>(Feet KBM)</u> |
|----------------------|---|
| Virgin Limestone | Surface |
| Moenkopi | |
| Lower Red Shale | 133 |
| Timpoweap | 587 |
| Kaibab | 717 |
| Toroweap | 1030 |
| Coconino-Queantoweap | 1660 |
| Pakoon | 2895 |
| Callville | 3845 |
| Redwall | 4295 |
| Devonian-Cambrian | 5300 |
| Total Depth | 6000 |

5. Assuming commercial quantities of gas are obtained, run Schlumberger temperature and gamma ray logs from the bottom of the 13-3/8-inch O.D. casing to total depth drilled with gas.
6. Go in hole and load well with the gel-chemical drilling mud. With well dead, clean out to total depth and condition mud and hole.
7. Run Schlumberger dual induction-laterolog (linear 2-inch, logarithmic 5-inch with RXO/Rt on 5-inch) and a borehole compensated sonic, gamma ray caliper log with sonic F log from the bottom of the surface casing to total depth drilled and a borehole compensated density gamma ray caliper log and sidewall neutron log over zones of interest.
8. Assume commercial quantities of gas and/or oil are present. Go into hole with 8-3/4-inch bit and drill pipe to total depth to condition mud prior to running production casing. Pull bit laying down drill pipe and drill collars.
9. Run 5-1/2-inch O.D. casing as outlined in Item No. I, General Information, through the deepest producing zone as indicated by open hole drill stem tests or log analysis. This casing string is designed to withstand 6000 psi frac pressure. A Larkin filrite float collar and float shoe will be run as floating equipment. Cement casing with 50-50 Pozmix "A" cement. Bring cement top behind the 5-1/2-inch O.D. casing above the uppermost producing zone as indicated by drill stem test and log analysis. Circulate 175 barrels of drilling mud prior to beginning cementing operations. Capacity of the 5-1/2-inch O.D. casing is approximately 139 barrels. Cement requirements will be based on actual hole size as determined by the caliper portion of the formation density log. Rotate casing while circulating, mixing and displacing cement. Displace cement with water.
10. Immediately after cementing operations are completed, land the 5-1/2-inch O.D. casing with full weight of casing on slips in the 12-inch 3000 psi casing flange and record indicator weight. Install a NSCo. 12-inch 3000 psi by

6-inch 5000 psi tubing spool. Pressure test primary and secondary seals to 2500 psi for 5 minutes. Minimum collapse pressure for 5-1/2-inch O.D., 17-pound, N-80, 8 round thread, LT&C casing is 5900 psi. Install a steel plate on the 6-inch 5000 psi tubing spool flange.

11. Release drilling rig and move off location.
12. Move in and rig up a completion rig.
13. Install a 6-inch 5000 psi hydraulically operated double gate preventer with blind rams on bottom and 2-3/8-inch tubing rams on top.
14. After a WOC time of at least 50 hours, rig up Dresser Atlas and run bond log and perforating formation control log from plugged back depth to top of cement behind the 5-1/2-inch O.D. casing.
15. After a WOC time of at least 56 hours, pick up and run a 4-3/4-inch bit on 2-3/8-inch O.D., 4.6-pound, J-55 seal lock thread tubing to check plugged back depth.
16. Using Halliburton pump truck and water, pressure test casing and tubing rams to 4000 psi for 15 minutes. The minimum internal yield for 5-1/2-inch O.D., 17-pound, N-80 casing is 7740 psi and the wellhead has a working pressure of 5000 psi with a test pressure of 10,000 psi. Pull tubing and pressure test casing and blind rams to 4000 psi for 15 minutes.
17. A tentative plan to complete the well will be issued after results of the above items have been evaluated.

GENERAL INFORMATION

I. The following tubular goods have been assigned to the well.

| <u>Description</u> | <u>Approximate Gross Measurement (feet)</u> | <u>Availability</u> |
|--|---|---------------------|
| | <u>Surface Casing</u> | |
| 13-3/8-inch O.D., 48-pound, H-40, 8 round thread, ST&C casing | 530 | To be purchased |
| | <u>Production Casing</u> | |
| 5-1/2-inch O.D., 17-pound, N-80, 8 round thread, LT&C casing | 6,200 | To be purchased |
| | <u>Production Tubing</u> | |
| 2-3/8-inch O.D., 4.6-pound, J-55, seal lock tubing | 6,200 | To be purchased |

II. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.

III. Well responsibility - E. G. Mickel

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
Utah 15364

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
-

8. FARM OR LEASE NAME
Shurtz Creek

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NE NE 9-37S-11W., SLB&M

12. COUNTY OR PARISH
Iron

13. STATE
Utah

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 580' FNL, 780' FEL ^{1/2} NE NE
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
4 miles south of Cedar City, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
540'

16. NO. OF ACRES IN LEASE
2504.22

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.
-

19. PROPOSED DEPTH
6000'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 6497.5'

22. APPROX. DATE WORK WILL START*
February 10, 1973

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 17-1/2 | 13-3/8 | 48 | 500 | 603 |
| 8-3/4 | 5-1/2 | 17 | to be | determined |

We would like to drill the subject well to an estimated depth of 6000', anticipated formation tops are as follows: Virgin limestone at the surface, Moenkopi at 133', Kaibab 717', Toroweap at 1030', Coconino-Queantoweap at 1660', Pakoon at 2895', Callville at 3845', Redwall at 4295', Devonian-Cambrian at 5300'.

Mud will be adequate to contain formation fluids and blow out preventers will be checked daily.

OK

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.

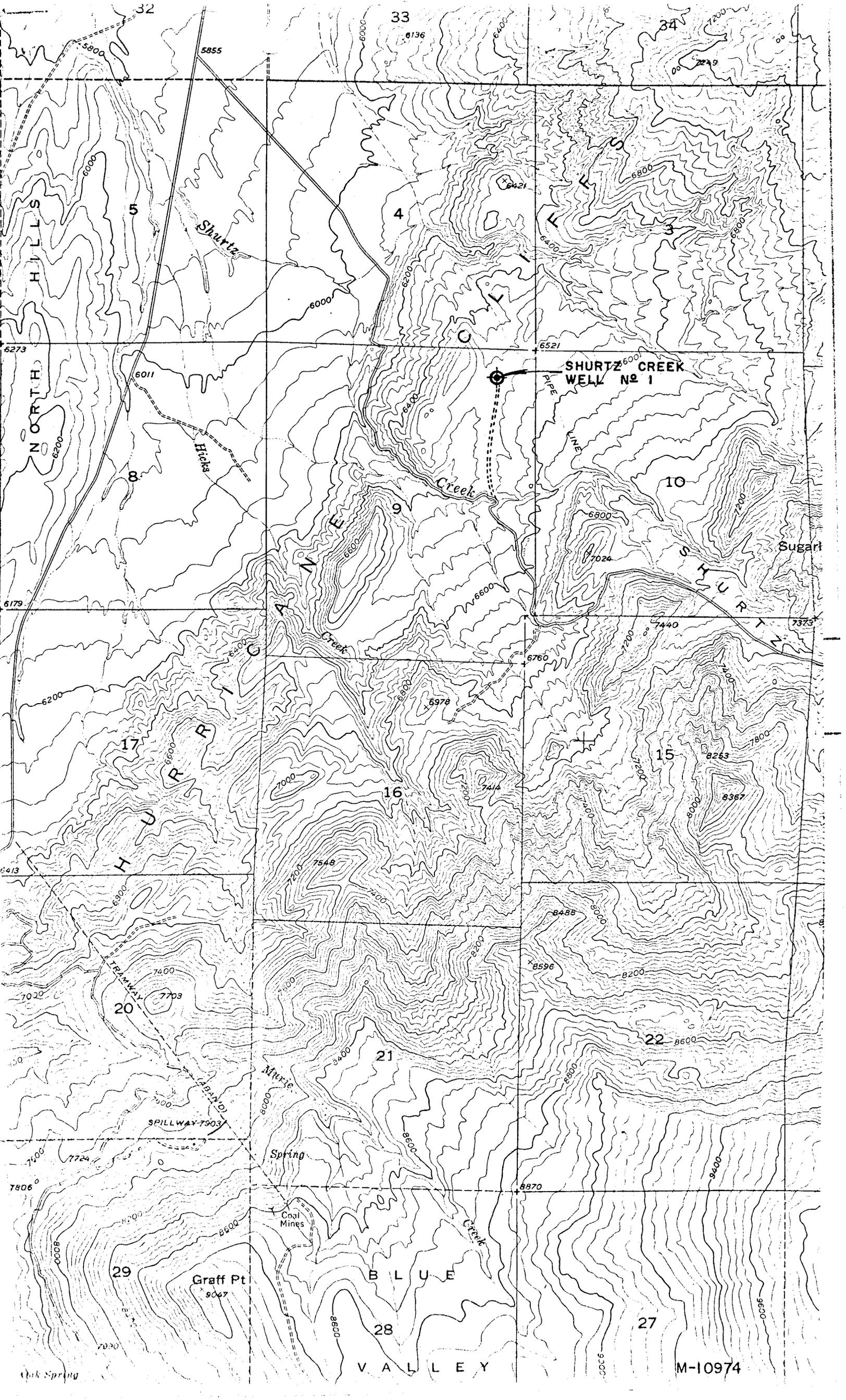
24. SIGNED B. W. Croft, Jr. TITLE Vice President, Gas Supply Operations DATE Jan. 15, 1973

(This space for Federal or State office use)

PERMIT NO. 43-021-30002 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

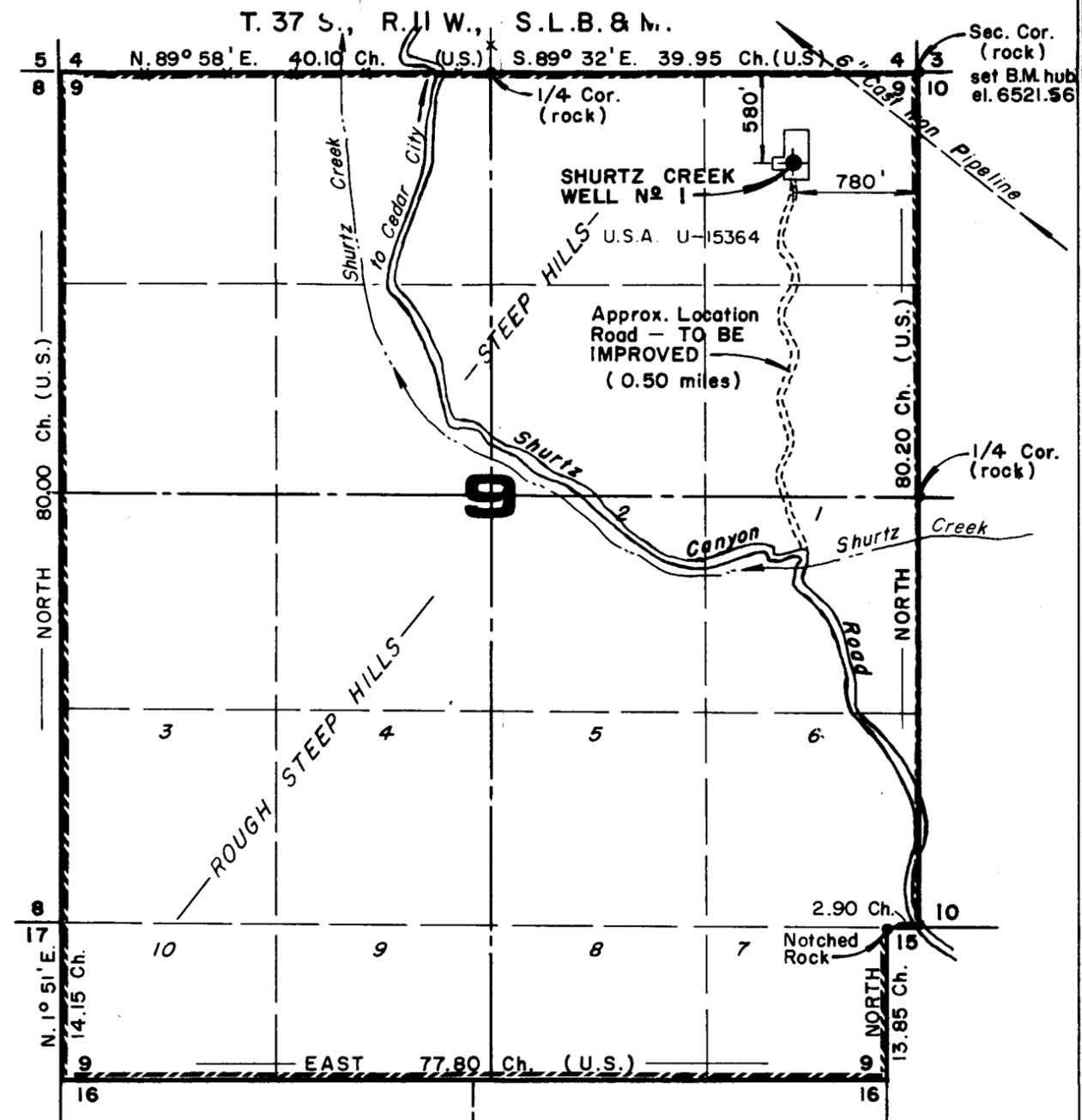
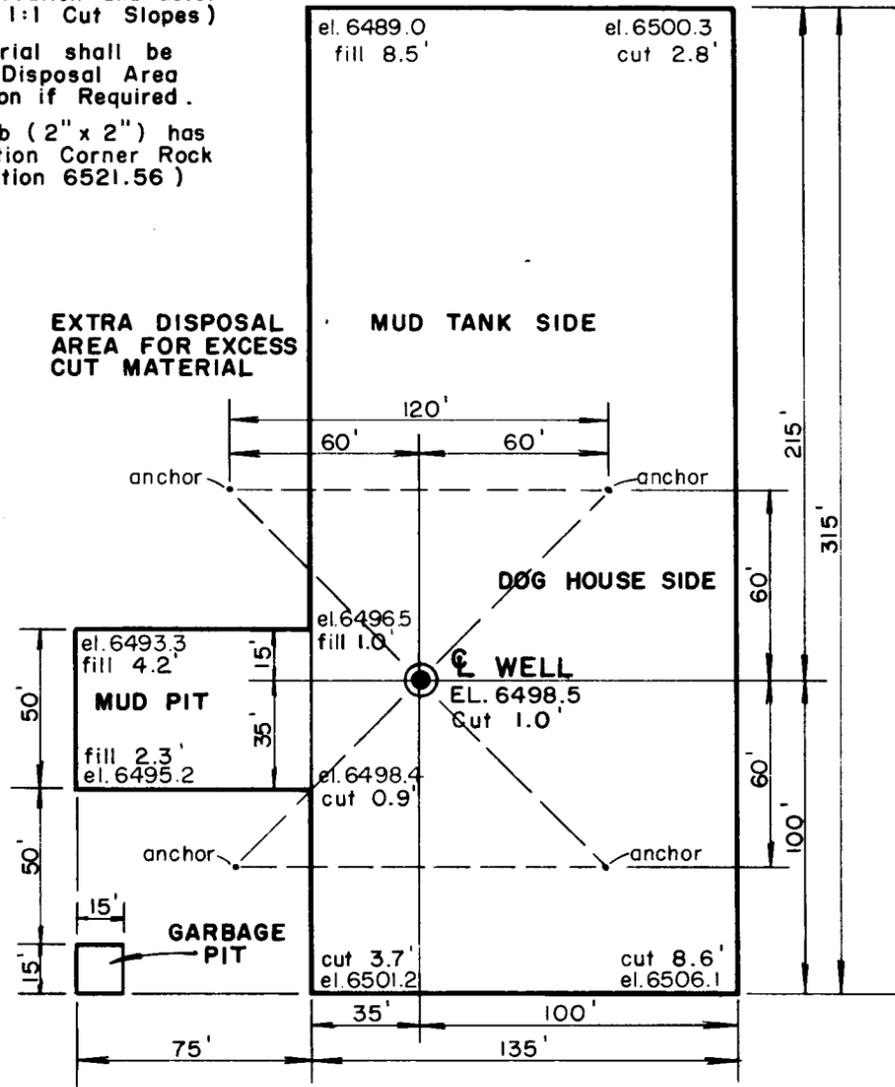


SHURTZ CREEK
WELL No 1

Graff Pt
9047

M-10974

- NOTE**
1. Grade to Well Elevation and Level Entire Area. (Use 1:1 Cut Slopes)
 2. Excess Cut Material shall be stored in Extra Disposal Area for Site Restoration if Required.
 3. A Bench Mark Hub (2" x 2") has been set at Section Corner Rock as noted. (Elevation 6521.56)



I, RALPH B. PLATT, Registered Engineer and Land Surveyor of Cedar City, Utah, and practicing under Utah State License No. 1093, do hereby certify that I have made a survey of the site to drill the Shurtz Creek No. 1 test well for Mountain Fuel Supply Company; that the plats hereupon were prepared from the field notes of said survey and were prepared under my supervision; that the roads and roadways hereupon are only approximations from appropriate field examinations and that the same are true and correct to the best of my knowledge.

Ralph B. Platt
 Consulting Engineer, & Land Surveyor

DRILLING W.O.

| SEAL | LEGEND | ENGINEERING RECORD | | REVISIONS | | | | MOUNTAIN FUEL SUPPLY COMPANY ROCK SPRINGS, WYOMING | |
|----------------|-----------------------------------|--|--|--------------------|-------------------------------------|-----|--|--|----|
| UTAH LIC. 1093 | WELL Located Corners as shown. | SURVEYED BY | RALPH B. PLATT | DATE: | 11/24/72 | NO. | | DATE | BY |
| | | REFERENCES | U.S. G.L.O. PLAT <input checked="" type="checkbox"/> | U.S.G.S. QUAD. MAP | <input checked="" type="checkbox"/> | | | | |
| | | LOCATION DATA | | | | | | | |
| | | FIELD | SHURTZ CREEK | | | | | | |
| | | LOCATION | NE 4 NE 4 Sec. 9, T. 37 S., R. 11 W., S.L.B. & M. | | | | | | |
| | | COUNTY | IRON | | | | | | |
| | | STATE | UTAH | | | | | | |
| | | WELL ELEVATION: 6497.5' (as graded) ELEVATION BY SPIRIT LEVELS - KOLOB PIPELINE BENCH MARK NO. 20. | | | | | | | |
| | | | | | | | | CERTIFIED WELL LOCATION AND WELL SITE PLAN (SHURTZ CREEK WELL NO. 1) | |
| | | | | | | | | Drawn: 12/2/72 DJG Scale: AS NOTED | |
| | | | | | | | | Checked: DRWG. NO. M-10973 | |
| | | | | | | | | Approved: | |
| | | | | | | | | FILE NO. A-11 SHEET NO. OF | |

January 16, 1973

Mountain Fuel Supply Company
Box 1129
Rock Springs, Wyoming

Re: Well No. Shurtz Creek #1
Sec. 9, T. 37 S, R. 11 W,
Iron County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to 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
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation with regard to this request will be greatly appreciated.

The API number assigned to this well is 43-021-30002.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:ad
cc: U.S. Geological Survey

Branch of Oil and Gas Operations
8416 Federal Building
Salt Lake City, Utah 84111

January 30, 1973

Mr. B. W. Croft
Mountain Fuel Supply Company
P. O. Box 1129
Rock Springs, Wyoming 82901

Re: Well No. 1, Shurtz Creek
NE~~1~~NE~~4~~ sec. 9-37S-11W, SLM
Iron County, Utah
Lease U 15364

Dear Mr. Croft:

Enclosed is your copy of the Application for Permit to Drill the referenced well which was approved by this office on January 26, 1973. This is to confirm that this office granted oral approval of the application on January 24, 1973.

The development plan for surface use has been reviewed by this office and the Bureau of Land Management District Office at Cedar City. The plan is generally acceptable but we request the following modifications:

1. In the event the well is completed as a producer, the access road should be up-graded for permanent access. It will not be necessary to seed the access road in the event the well is abandoned but water bars should be installed per BLM specifications.
2. It would be appreciated if you would arrange to have your dirt contractor contact the BLM when he is ready to build the road and location so that the BLM may have a representative available on site to resolve any questions the contractor may have. Also, please contact the BLM concerning reclamation requirements if the site is abandoned.
3. Please arrange to remove all accumulations of garbage, debris and trash from the well site. The nearest sanitary landfill is the municipal facility at Cedar City.

Sincerely,

(ORIG. SGD.) G. R. DANIELS

Gerald R. Daniels,
District Engineer

cc: Casper
State Div O&G Cons ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R14

5. LEASE DESIGNATION AND SERIAL NO.

Utah 15364

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

8. FARM OR LEASE NAME

Shurtz Creek

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

NE NE 9-37S-11W., SLB&M

12. COUNTY OR PARISH 13. STATE

Iron

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

580' FNL, 780' FEL NE NE

14. PERMIT NO.

43-021-30002

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

GR 6497.5'

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON*

REPAIR WELL

CHANGE PLANS

(Other) Extension of time

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(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.)*

Due to weather conditions (snow, mud), we would like an additional 90 days in which to begin operations.

APPROVED BY DIVISION OF
OIL & GAS CONSERVATION

DATE 4-19-73

BY C. B. Fugate

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

SIGNED

B. H. Croft

TITLE

Vice President,

Gas Supply Operations

DATE

April 18, 1973

(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.

PF

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"/> Wildcat | | 5. LEASE DESIGNATION AND SERIAL NO. Utah 15364 | |
| 2. NAME OF OPERATOR Mountain Fuel Supply Company | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME - | |
| 3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901 | | 7. UNIT AGREEMENT NAME - | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 580' FNL, 780' FEL NE NE | | 8. FARM OR LEASE NAME Shurtz Creek | |
| 14. PERMIT NO. 43-021-30002 | | 9. WELL NO. 1 | |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6497.5' | | 10. FIELD AND POOL, OR WILDCAT Wildcat | |
| | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE NE 9-37S-11W., SLB&M | |
| | | 12. COUNTY OR PARISH 13. STATE Iron 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 143', reaming 12 $\frac{1}{4}$ " hole to 17 $\frac{1}{2}$ ".

Spudded May 12, 1973.

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

SIGNED BW Croft TITLE Vice President, Gas Supply Operations DATE May 16, 1973

(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 TRIPL
(Other instructions
reverse side)

Form approved.
Budget Bureau No. 42-R1424.

PF

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"/> Wildcat | | 5. LEASE DESIGNATION AND SERIAL NO. Utah 15364 |
| 2. NAME OF OPERATOR Mountain Fuel Supply Company | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME - |
| 3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901 | | 7. UNIT AGREEMENT NAME - |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 580' FNL, 780' FEL NE NE | | 8. FARM OR LEASE NAME Shurtz Creek |
| 14. PERMIT NO. 43-021-30002 | 15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6497.5' | 9. WELL NO. 1 |
| | | 10. FIELD AND POOL, OR WILDCAT Wildcat |
| | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE NE 9-37S-11W., SLB&M |
| | | 12. COUNTY OR PARISH Iron |
| | | 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 354', reaming 8-3/4" hole to 12 1/4".

18. I hereby certify that the foregoing is true and correct
SIGNED BW Craft TITLE Vice President,
Gas Supply Operations DATE May 22, 1973

(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 15364

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

580' FNL, 780' FEL NE NE

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Shurtz Creek

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

NE NE 9-37S-11W., SLB&M

14. PERMIT NO.

43-021-30002

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

KB 6509.15' GR 6497.5'

12. COUNTY OR PARISH

Iron

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 3415', drilling.

Landed 500.86' net, 512.25' gross of 13-3/8"OD, 48#, H-40, ST&C casing at 512.51' KBM and set with 603 sacks of cement.

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

SIGNED

BW Craft

TITLE

Vice President,
Gas Supply Operations

DATE

June 26, 1973

(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

LAND OFFICE Utah
LEASE NUMBER 15364
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Iron Field Shurtz Creek

The following is a correct report of operations and production (including drilling and producing wells) for the month of JUN 1973, 19____,

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

SALT LAKE CITY, UTAH ~~XXXX~~ Signed E. Murphy

Phone 328-8315 84139 Agent's title CHIEF ACCOUNTANT

| SEC. AND ¼ OF ¼ | 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) |
|--|------------|------------|-------------|------------------|----------------|---------|----------------------------------|-------------------------------------|--|---|
| <u>Utah 15364 Shurtz Creek Well #1</u> | | | | | | | | | | |
| <u>NE NE 9</u> | <u>37S</u> | <u>11W</u> | <u>1</u> | | | | | | | <u>Spud May 12, 1973</u> <u>4,838' Drilling</u> |

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

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

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

PRB
PS

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator Mountain Fuel Supply Co. Inspector Tom Colson
Well No. 1 Shurte located NE 1/4 NE 3 Sec. 9 Top 375 Range 11 W
Lease No. U 15364 Field W.C. Iron Co Utah

Unit Name _____
Required Fluid None. Base of fresh water sands None noted - Air drilled

T.D. 6000 Size held and 8 3/4" and Weight _____
_____ per sack _____ and Top _____

| Casing Size | Top of Section | To Be Picked | Plugging Requirements | |
|---------------|----------------|--------------|-----------------------|--------------|
| | | | Depth | Section |
| <u>13 3/8</u> | <u>512</u> | <u>Circ.</u> | <u>4675 - 4775</u> | <u>40 SX</u> |
| | | | <u>3360 - 3460</u> | <u>40 SX</u> |
| | | | <u>2280 - 2380</u> | <u>40 SX</u> |
| | | | <u>850 - 950</u> | <u>40 SX</u> |
| | | | <u>450 - 550</u> | <u>40 SX</u> |
| | | | <u>10" @ surface</u> | |

- Spl tops
- Virgin Ls Surf
 - Moenkopi 120
 - Timpanogas 540
 - Kaibab 730
 - Tropic 904
 - Carbonio 2330
 - Parkoo 3410
 - Exillville 4336
 - Redwell 4728
 - Devonian 5818

Remarks

DSP's, loss circulation zones, water zones, etc. _____

Approved by [Signature] Date July 11, 1973 Time 1:30

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 15364

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Shurtz Creek

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

NE NE 9-37S-11W., SLB&M

12. COUNTY OR PARISH | 13. STATE

Iron

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
580' FNL, 780' FEL NE NE

14. PERMIT NO.
43-021-30002

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 6509.15' GR 6497.5'

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*

(Other) 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 5975', drilling.

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

SIGNED BW Craft

TITLE Vice President,
Gas Supply Operations

DATE July 11, 1973

(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 TRIPL.
(Other instructions on re-verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 15364

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Shurtz Creek

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

NE NE 9-37S-11W., SLB&M

12. COUNTY OR PARISH 13. STATE

Iron

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
580' FNL, 780' FEL NE NE

14. PERMIT NO.
43-021-30002

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 6509.15' GR 6497.5'

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

NOTICE OF INTENTION TO:

| | |
|--|---|
| 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 checked="" type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> |
| (Other) <input type="checkbox"/> | |

SUBSEQUENT REPORT OF:

| | |
|---|--|
| 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.)*

TD 596', rig released 7-13-73.

Verbal approval was granted on July 11, 1973 during a telephone conversation between Mr. Daniels with the U.S.G.S. and Mr. Colson with Mt. Fuel to plug and abandon the subject well by laying the following plugs:

- Plug No. 1: 5120-5020', 40 sacks
- Plug No. 2: 3460-3360', 40 sacks
- Plug No. 3: 2520-2420', 40 sacks
- Plug No. 4: 950-850', 40 sacks
- Plug No. 5: 550-450', 40 sacks
- Plug No. 6: 10 sacks in top of surface casing.

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

SIGNED Bob Craft

TITLE Vice President,
Gas Supply Operations

DATE July 16, 1973

(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 TRIP DATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 15364

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

-

8. FARM OR LEASE NAME

Shurtz Creek

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

NE NE 9-37S-11W., SLB&M

12. COUNTY OR PARISH 13. STATE

Iron

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

580' FNL, 780' FEL NE NE

14. PERMIT NO.

43-021-30002

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

KB 6509.15' GR 6497.5'

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.)*

TD 5996', rig released 7-13-73, well plugged and abandoned as follows:

- Plug No. 1: 5120-5020', 40 sacks
- Plug No. 2: 3460-3360', 40 sacks
- Plug No. 3: 2520-2420', 40 sacks
- Plug No. 4: 950-850', 40 sacks
- Plug No. 5: 550-450', 40 sacks
- Plug No. 6: 10 sacks in top of surface casing

A regulation abandonment marker will be installed and the location cleaned at a later date.

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

SIGNED

BW Craft

TITLE

Vice President,

Gas Supply Operations

DATE

July 16, 1973

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

4

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R356.4
Approval expires 12-31-60.

LAND OFFICE Utah
LEASE NUMBER 15364
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Iron Field Shurtz Creek

The following is a correct report of operations and production (including drilling and producing wells) for the month of JUL 1973, 19__.

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

SALT LAKE CITY, UTAH ~~84139~~ Signed D. Murphy

Phone 328-8315 84139 Agent's title 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) |
|---------------------|------|-------|----------|---------------|---|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| | | | | | Utah 15364 Shurtz Creek Well No. 1 | | | | | |
| NE NE 9 | 37S | 11W | 1 | | | | | | | Spud May 12, 1973 TD 5,996' FBD 0' Dry and Abandon 7-13-73 Final Report. ✓ |

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

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

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 *

| | | | |
|---|--|--|---|
| 1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input checked="" type="checkbox"/> Other _____ | | 5. LEASE DESIGNATION AND SERIAL NO. Utah 15364 | |
| b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____ | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME - | |
| 2. NAME OF OPERATOR Mountain Fuel Supply Company | | 7. UNIT AGREEMENT NAME - | |
| 3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901 | | 8. FARM OR LEASE NAME Shurtz Creek | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 580' FNL, 780' FEL NE NE At top prod. interval, reported below At total depth | | 9. WELL NO. 1 | |
| 14. PERMIT NO. 43-021-30002 | | DATE ISSUED | |
| 15. DATE SPUNDED 5-12-73 | 16. DATE T.D. REACHED 7-11-73 | 17. DATE COMPL. (Ready to prod.) 7-13-73 | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 6509.15 GR 6497.5 |
| 19. ELEV. CASINGHEAD - | | 20. COUNTY OR PARISH Iron | |
| 21. STATE Utah | | 22. TOTAL DEPTH, MD & TVD 5996 | |
| 23. PLUG, BACK T.D., MD & TVD 0 | | 24. IF MULTIPLE COMPL., HOW MANY* | |
| 25. INTERVALS DRILLED BY → 0-5996 | | 26. ROTARY TOOLS - | |
| 27. CABLE TOOLS - | | 28. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dry and abandoned | |
| 29. WAS DIRECTIONAL SURVEY MADE No | | 30. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction Focused, Integrated Sonic-GR | |
| 31. WAS WELL CORED No | | 32. CASING RECORD (Report all strings set in well) | |
| CASING SIZE 13-3/8 | WEIGHT, LB./FT. 48 | DEPTH SET (MD) 512.51 | HOLE SIZE 17-1/2 8-3/4 |
| CEMENTING RECORD 603 | | AMOUNT PULLED 0 | |
| 33. LINER RECORD | | | |
| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* |
| 34. TUBING RECORD | | 35. SCREEN (MD) | |
| SIZE | DEPTH SET (MD) | PACKER SET (MD) | |
| 36. PERFORATION RECORD (Interval, size and number) | | | |
| 37. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. | | | |
| DEPTH INTERVAL (MD) | | AMOUNT AND KIND OF MATERIAL USED | |
| 38. PRODUCTION | | | |
| DATE FIRST PRODUCTION D & A | | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) | |
| WELL STATUS (Producing or shut-in) | | | |
| DATE OF TEST | HOURS TESTED | CHOKE 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.) | |
| 39. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) | | TEST WITNESSED BY | |
| 35. LIST OF ATTACHMENTS Logs as above, Well Completion and Well Lithology will be sent at a later date. | | | |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records | | | |
| SIGNED BW Craft | TITLE Vice President Gas Supply Operations | | DATE July 17, 1973 |

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | MEAS. DEPTH | TOP TRUE VERT. DEPTH |
|--|-----|--------|-----------------------------|-----------------|-------------|-------------------------|
| 37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES | | | | | | |
| | | | | Log tops: | | |
| | | | | Virgin ls | 0' | |
| | | | | Lower Red | 100 | |
| | | | | Timpoweap | 540 | |
| | | | | Kaibab | 746 | |
| | | | | Toroweap | 905 | |
| | | | | Coconino | 2477 | |
| | | | | Queantoweap | | |
| | | | | Pakoon | 3418 | |
| | | | | Callville | 4664 | |
| | | | | Redwall | 5070 | |
| | | | | Devonian- | | |
| | | | | Cambrian Undiff | 5784' | |

38. GEOLOGIC MARKERS

PI *[Signature]*

FORM OG-1 X
FILE IN QUADRUPPLICATE

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: Shurtz Creek Well No. 1

Operator: Mountain Fuel Supply Company Address: Box 11368, Salt Lake City, Utah 84139

Contractor: Signal Drilling Co., Inc. Address: Drawer 79, Casper, Wyoming

Location: NE 1/4 NE 1/4 Sec. 9 T. 37 N. R. 11 E, Iron County, Utah
S W

Water Section:

| From Depth: | To- | Volume: Flow Rate or Head- | Quality: Fresh or Salty- |
|--|-----|-------------------------------|-----------------------------|
| *Waiting on sample results | | | |
| 1. *Well quit dusting @ 1543' | | too small to measure | * |
| 2. Well made 5-10 BWPH from 5100'-TD while blowing well with Air Mist. | | | * |
| 3. | | | |
| 4. | | | |
| 5. | | | |

*Well was drilled with Air Mist, we added soap and water to the air stream

(Continue on reverse side if necessary)

Formations from Logs:

| | | | |
|------------------|---------|----------------------|--------|
| Virgin Limestone | Surface | Coconino-Queantoweap | 2,477' |
| Moenkopi | | Pakoon | 3,418' |
| Lower Red Shale | 100' | Callville | 4,664' |
| Timpoweap | 540' | Redwall | 5,070' |
| Kaibab | 746' | Devonian | 5,784' |
| Toroweap | 905' | | |
| Remnants | | | |

- NOTE:
- (a) Upon diminishing supply of forms, please inform this office.
 - (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 this form)
 - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company
 OPERATOR Mountain Fuel Supply Company
 WELL NO. Shurtz Creek No. 1
 FIELD Wildcat
 COUNTY Iron
 STATE Utah

LAB NO. 10716-2 REPORT NO. _____
 LOCATION Sec 9-37S-11W
 FORMATION _____
 INTERVAL _____
 SAMPLE FROM 5000 feet
 DATE August 8, 1973

REMARKS & CONCLUSIONS: Cloudy water with clear filtrate, foamy. Sample collected while well drilled with air mist. Soap added.

| Cations | | | Anions | | |
|---------------|------|-------|------------------|------|-------|
| | mg/l | meq/l | | mg/l | meq/l |
| Sodium | 807 | 35.12 | Sulfate | 2850 | 59.28 |
| Potassium | 88 | 2.25 | Chloride | 700 | 19.74 |
| Lithium | --- | --- | Carbonate | --- | --- |
| Calcium | 745 | 37.18 | Bicarbonate | 464 | 7.61 |
| Magnesium | 147 | 12.08 | Hydroxide | --- | --- |
| Iron | --- | --- | Hydrogen sulfide | --- | --- |
| Total Cations | | 86.63 | Total Anions | | 86.63 |

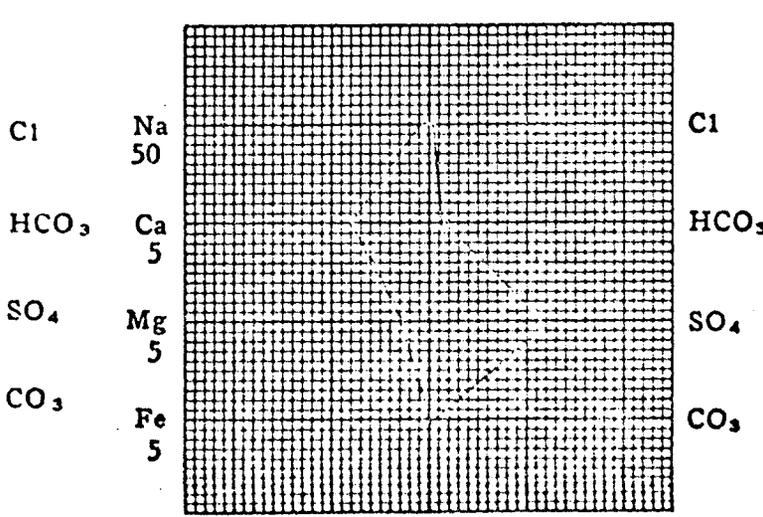
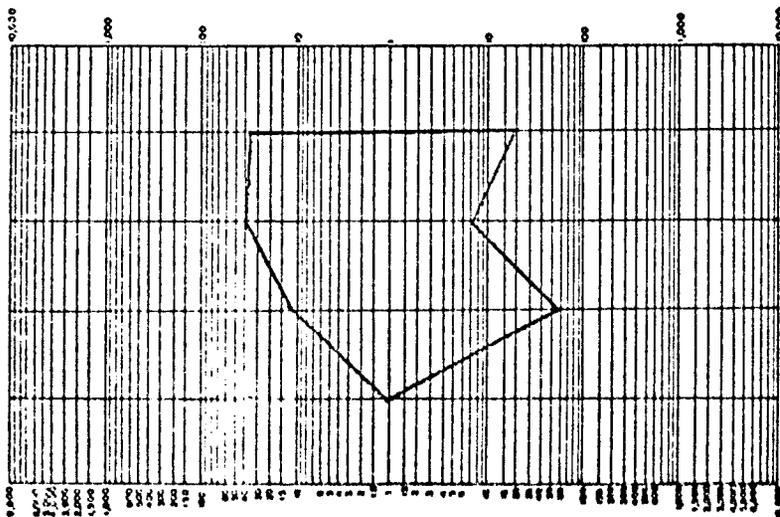
| | | | |
|------------------------------|------|-------------------------------|-----------------|
| Total dissolved solids, mg/l | 5566 | Specific resistance @ 68° F.: | |
| NaCl equivalent, mg/l | 4147 | Observed | 1.84 ohm-meters |
| Observed pH | 7.7 | Calculated | 1.52 ohm-meters |

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l = Milligrams per liter. Meq/l = Milligram equivalents per liter
 Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company
 OPERATOR Mountain Fuel Supply Company
 WELL NO. Shurtz Creek No. 1
 FIELD Wildcat
 COUNTY Iron
 STATE Utah

LAB NO. 10716-1 REPORT NO. _____
 LOCATION Sec. 9-37S-11W
 FORMATION _____
 INTERVAL _____
 SAMPLE FROM Make-up Water ✓
 DATE August 8, 1973

REMARKS & CONCLUSIONS: Slightly cloudy yellow water, foamy. Sampled as known make-up water (soapy water being added to air stream).

| Cations | | | Anions | | |
|---------------|------|-------|------------------|------|-------|
| | mg/l | meq/l | | mg/l | meq/l |
| Sodium | 71 | 3.09 | Sulfate | 836 | 17.39 |
| Potassium | 7 | 0.18 | Chloride | 50 | 1.41 |
| Lithium | -- | -- | Carbonate | -- | -- |
| Calcium | 353 | 17.61 | Bicarbonate | 488 | 8.00 |
| Magnesium | 72 | 5.92 | Hydroxide | -- | -- |
| Iron | -- | -- | Hydrogen sulfide | -- | -- |
| Total Cations | | 26.80 | Total Anions | | 26.80 |

Total dissolved solids, mg/l 1629
 NaCl equivalent, mg/l 1157
 Observed pH 6.5

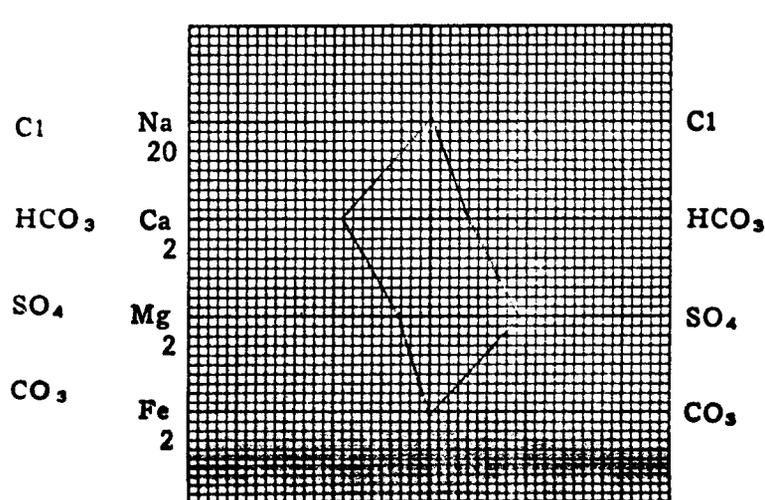
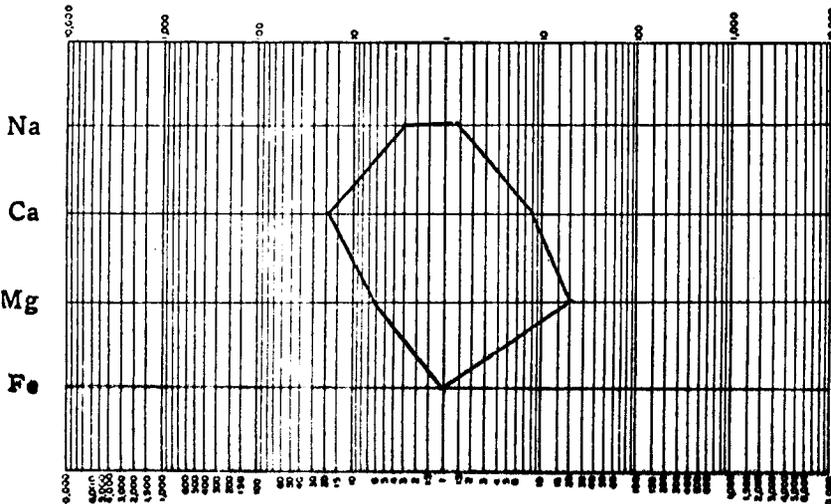
Specific resistance @ 68° F.:
 Observed 4.30 ohm-meters
 Calculated 5.10 ohm-meters

WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC

STANDARD



(Na value in above graphs includes Na, K, and Li)
 NOTE: Mg/l=Milligrams per liter. Meq/l=Milligram equivalents per liter
 Sodium chloride equivalent=by Dunlap & Hawthorne calculation from components

COMPLETION REPORT

PF 12

Well: Shurtz Creek Well No. 1 Date: August 7, 1973

Area: Shurtz Creek Lease No: Utah 15364

New Field Wildcat Development Well Shallower Pool Test

New Pool Wildcat Extension Deeper Pool Test

Location: 580 feet from North line, 780 feet from East line

NE 1/4 NE 1/4

Section 9, Township 37 South, Range 11 West

County: Iron State: Utah

Operator: Mountain Fuel Supply Company

Elevation: KB 6510' Gr 6497.5' Total Depth: Driller 5996' Log 5996'

Drilling Commenced: May 12, 1973 Drilling Completed: July 12, 1973

Rig Released: July 13, 1973 Well Completed: July 13, 1973

Sample Tops: (unadjusted)

| | | | |
|----------------------|---------|-----------|--------|
| Virgin Limestone | Surface | Pakoon | 3,410' |
| Moenkopi | | Callville | 4,336' |
| Lower Red Shale | 120' | Redwall | 4,728' |
| Timpoweap | 540' | Devonian | 5,818' |
| Kaibab | 730' | | |
| Toroweap | 904' | | |
| Coconino-Queantoweap | 2,330' | | |

Log Tops:

| | |
|----------------------|---------------------|
| Virgin Limestone | Surface |
| Moenkopi | |
| Lower Red Shale | 100' ¹⁰⁰ |
| Timpoweap | 540' |
| Kaibab | 746' ¹⁵⁰ |
| Toroweap | 905' |
| Coconino-Queantoweap | 2,477' |
| Pakoon | 3,418' |
| Callville | 4,664' |
| Redwall | 5,070' |
| Devonian | 5,784' |

Sample Cuttings:

10' Samples from surface to TD

Status: D & A

Producing Formation: None

Perforations: None

Stimulation: None

Production: None

Plug Back Depth: Surface

| | | | |
|-----------|---------------------|----|-------------------|
| Plugs: #1 | 5120'-5020' w/40 sx | #4 | 950'-850' w/40 sx |
| #2 | 3460'-3360' w/40 sx | #5 | 550'-450' w/40 sx |
| #3 | 2520'-2420' w/40 sx | #6 | Surface w/10 sx |

Hole Size: 17 1/2" from surface to 530', 8 3/4" from 530'-5996'

Casing/Tubing: None

Logging - Mud: Air & Mist drilled from surface to 5818', mud drilled from 5818' to 5996'.

Rocky Mountain Geo-Engineering, John Clutter - consultant.

Mechanical: Dual-Induction Focused Log 513'-5996', Acoustilog 0'-5986'

John Martin - engineer.

Contractor: Signal Drilling, Inc., Larry Burke - pusher

Completion Report Prepared by: J. Golden

Remarks: None

1500
1300
100
100

43 021 30002

COMPLETION REPORT (cont.)

Well: Shurtz Creek Well No. 1

Area: Shurtz Creek

Cored Intervals (recovery): None

Tabulation of Drill Stem Tests:

| <u>No.</u> | <u>Interval</u> | <u>IHP</u> | <u>IFP (min.)</u> | <u>ISIP (min.)</u> | <u>FFP (min.)</u> | <u>FSIP (min.)</u> | <u>FHP</u> | <u>Samples Caught</u> | <u>Remarks</u> |
|------------|-----------------|------------|-------------------|--------------------|-------------------|--------------------|------------|-----------------------|----------------|
|------------|-----------------|------------|-------------------|--------------------|-------------------|--------------------|------------|-----------------------|----------------|

No Drill Stem tests were run