

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 2090' FEL, 660' FSL SW SE
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 16 miles southeast of Hanksville, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) -
 2090'

16. NO. OF ACRES IN LEASE
 1274

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
 6500'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GR 5293 (ungraded)

22. APPROX. DATE WORK WILL START*
 July 5, 1971

23. 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	500	344
8-3/4	7	23	To be determined	

We would like your permission to drill the subject well to an estimated depth of 6500'. Anticipated formation tops are as follows: Carmel at the surface, Navajo at 40', Kayenta at 630', Wingate at 890', Chinle at 1180', Shinarump at 1500', Moenkopi at 1560', White Rim at 2050', Organ Rock at 2460', Cedar Mesa at 2580', Honaker Trail at 3480', Paradox at 4280', Pinkerton Trail at 5330', Molas at 5620' and Mississippian at 5800'.

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

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. H. Croft TITLE Vice President, Gas Supply Operations DATE June 28, 1971

(This space for Federal or State office use)

PERMIT NO. 13-055-3000 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

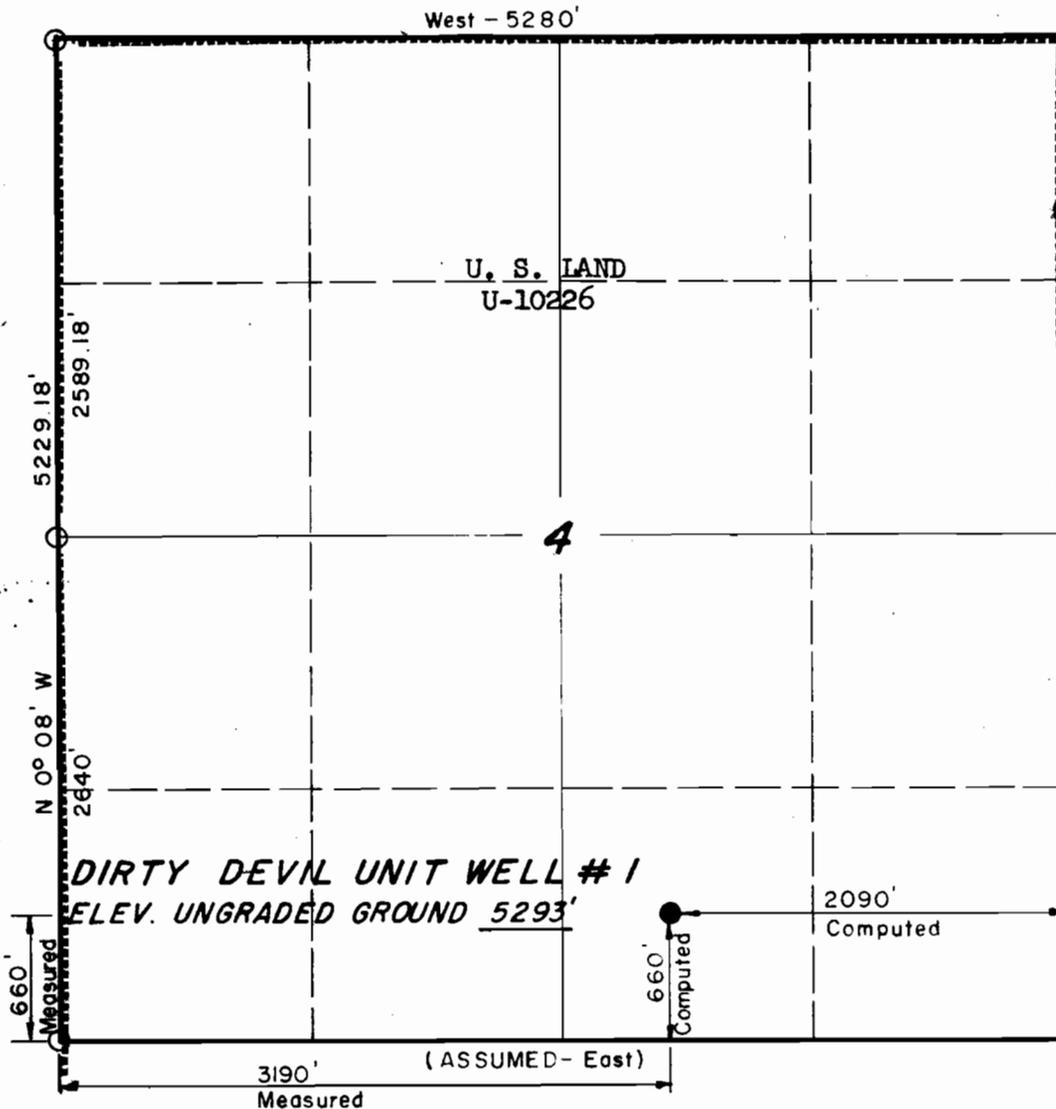
CONDITIONS OF APPROVAL, IF ANY:

W

T30S, R13E, S.L.B.&M.

MOUNTAIN FUEL SUPPLY COMPANY

Well location, *DIRTY DEVIL UNIT*
WELL # 1, located as shown in the
 SW1/4 SE1/4 Section 4, T30S,
 R13E, S.L.B.&M. Wayne County, Utah



DIRTY DEVIL UNIT WELL # 1
 ELEV. UNGRADED GROUND 5293'

○ = Section Corners Located (Brass Caps)

NOTE:

Section Unsurveyed Except For West and North Lines



UNTAH ENGINEERING & SURVEYING CO.
 P. O. BOX 2 - 100 EAST 1000
 VERNAL, UTAH 84406

SCALE	1" = 1000'	DATE	21 April, 1971
PARTY	L.C.K. D.A.	PROJECT	GLO Plot
WEATHER	Cool - Windy	WELL #	M-10240
		COMPANY	MOUNTAIN FUEL

FILE NOTATIONS

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

Checked by Chief *[Signature]*
Approval Letter *[Signature]*
Disapproval Letter
6-39-71

COMPLETION DATA:

Well Completed
..... WW..... TA.....
..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-N..... Micro.....
4C Sonic GR..... Lat..... Mi-L..... Sonic.....
BLog..... CCLog..... Others.....

June 29, 1971

Mountain Fuel Supply Company
Box 1129
Rock Springs, Wyoming 82901

Re: Dirty Devil Unit #1
Sec. 4, T. 30 S, R. 13 E,
Wayne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted. In addition, it would be appreciated if you would forward an unexecuted copy of the Dirty Devil Unit Agreement to our office.

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

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

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-055-30010.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd
cc: U.S. Geological Survey

**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 10226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

Dirty Devil 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

SW SE 4-30S-13E., S.L.M.

12. COUNTY OR PARISH | 13. STATE

Wayne

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.*
Sec also space 17 below.)
At surface

2090' FEL, 660' FSL SW SE

14. PERMIT NO.

-

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

GR 5293'

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

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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 2086', drilling.

Spudded July 20, 1971. Set 10-3/4", 32.75#, H-40 surface casing at 543.41' with 344 sacks of cement.

DST #1: 2002-2030', Moenkopi, IO 1/2 hour, ISI 1 hour, FO 1 hour, FSI 1 1/2 hours, opened with very weak blow, dead in 5 minutes and remained dead, reopened dead, no gas to surface, recovered 45' mud.

IHP 925, IOFP's 27-69, ISIP 792, FOFD's 55-193, FSIP 304, FHP 925.

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

SIGNED B. W. Croft

TITLE Vice President,
Gas Supply Operations

DATE July 27, 1971

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

b

INTEROFFICE COMMUNICATION

R. G. MYERS

FROM R. G. Myers

Rock Springs, Wyoming
CITY STATE

TO B. W. Croft

DATE July 2, 1971

SUBJECT Tentative Plan to Drill
Dirty Devil Unit Well No. 1
Wayne 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 April 13, 1971.

The plan was reviewed June 25, 1971, by Messrs. B. W. Croft, D. E. Dallas and R. G. Myers, and any necessary changes have been incorporated in this final plan.

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)

From: T. M. Colson

Rock Springs, Wyoming

To: R. G. Myers

July 2, 1971

Tentative Plan to Drill
Dirty Devil Unit Well No. 1
Wayne County, Utah

This well will be drilled to a total depth by _____ Drilling Company. One work order has been originated for the drilling and completion of the well, namely 20353-2, Drill Dirty Devil Unit Well No. 1. The location is SW SE Sec. 4, T. 30 S., R. 13 E., Wayne County, Utah.

1. Drill 13-3/4-inch hole to approximately 530 feet KBM.
2. Run and cement approximately 500 feet of 10-3/4-inch O.D., 32.75-pound, H-40, 8 round thread, ST&C casing. The casing will be cemented with 344 sacks of regular Type "G" cement which represents theoretical requirements plus 100 percent excess cement for 10-3/4-inch O.D. casing in 13-3/4-inch hole with cement returned to surface. Cement will be treated with 1616 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 on the pipe rack. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch Series 900 casing flange will be at ground level. A cellar four feet deep will be required. Prior to cementing, circulate 75 barrels of mud. Capacity of the 10-3/4-inch O.D. casing is 50 barrels.
3. After a WOC time of 6 hours, remove landing joint. Install a NSCo. Type "B" 10-inch Series 900 regular duty casing flange tapped for 10-3/4-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 of the casing flange and a 2-inch extra heavy bull plug in the opposite

side. Install a 10-inch Series 900 double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top, a Hydril preventer and finish nipping up. After a WOC time of 12 hours, pressure test surface casing and all preventer rams to 1000 psi for 15 minutes, using rig pump and drilling mud. The burst pressure rating for the 10-3/4-inch O.D. casing is 2270 psi.

4. Drill 8-3/4-inch hole to the total depth of 6500 feet or to such depth as the Geological Department may recommend. A mud desander and desilter will be used from under the surface casing to total depth to remove all undesirable solids from the mud system and to keep the mud weight to a minimum. A fully manned logging unit will be used from bottom of surface casing to total depth. The logging unit will be responsible for catching 30 foot samples to 1000 feet, 10 foot samples from 1000 feet to total depth. The mud system will consist of properties adequate to allow the running of drill stem tests. The mud weight should be held as low as practical. Ten drill stem tests are anticipated starting at a depth of approximately 1500 feet. Anticipated tops are as follows:

	<u>Approximate Depth</u> <u>(Feet KBM)</u>
Carmel	Surface
Navajo	40
Kayenta	630
Wingate	890
Chinle	1180
Shinarump	1500
Moenkopi	1560
White Rim	2050
Organ Rock	2460
Cedar Mesa	2580
Honaker Trail	3480
Paradox	4280
Pinkerton Trail	5330
Molas	5620
Mississipian	5800
Total Depth	6500

5. Run a dual induction laterolog with 2-inch linear scale and a borehole compensated gamma ray sonic log from surface pipe to total depth. Run a sidewall neutron log over zones of interest.
6. Assume commercial quantities of gas and/or oil are present as indicated by open hole drill stem tests or log analysis. 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.
7. Run 7-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. A Larkin 7-inch O.D., 8 round thread filrite float collar and filrite float shoe will be run as floating equipment. Cement casing with 50-50 Pozmix "A" cement. Preceed cement with 1000 gallons mud flush. Bring cement top behind the 7-inch O.D. casing above the uppermost producing zone as indicated by drill stem test and log analysis. Circulate 300 barrels of drilling mud prior to beginning cementing operations. Capacity of the 7-inch O.D. casing is approximately 249 barrels. Cement requirements will be based on actual hole size as determined by the caliper portion of the borehole compensated sonic log. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water.
8. Immediately after cementing operations are completed, land the 7-inch O.D. casing with full weight of casing on slips in the 10-inch Series 900 casing flange and record indicator weight. Install NSCo. Type B 10-inch Series 900 by 6-inch Series 900 tubing spool. Pressure test primary and secondary seals to 2500 psi for 5 minutes. Minimum collapse pressure for 7-inch O.D., 23-pound, N-80, 8 round thread, LT&C casing is 4070 psi. Install a steel plate on the 6-inch Series 900 tubing spool flange.

9. Release drilling rig and move off location.
10. Move in and rig up a completion rig.
11. Install a 6-inch Series 900 hydraulically operated double gate preventer with blind rams on bottom and 2-7/8-inch tubing rams on top.
12. 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 7-inch O.D. casing.
13. After a WOC time of at least 56 hours, pick up and run a 6-1/4-inch bit on 2-7/8-inch O.D., 6.5-pound, J-55, seal lock thread tubing and check plugged back depth.
14. Using Halliburton pump truck and water, pressure test casing and tubing rams to 3500 psi for 15 minutes. The minimum internal yield for 7-inch O.D., 23-pound, N-80 casing is 6340 psi and the wellhead has a working pressure of 3000 psi with a test pressure of 6000 psi. Land tubing and pressure test casing and blind rams to 3500 psi for 15 minutes. Pull bit standing tubing in derrick.
15. A tentative plan to complete the well will be finalized 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>	
10-3/4-inch O.D., 32.75-pound, H-40, 8 round thread, ST&C casing	530	To be purchased
	<u>Production Casing</u>	
7-inch O.D., 23-pound, N-80, 8 round thread, LT&C casing	6500	To be purchased
	<u>Production Tubing</u>	
2-7/8-inch O.D., 6.5-pound, J-55, seal lock tubing	6500	To be purchased

II. Lost circulation problems have been encountered in this area.

III. Well Responsibility - E. G. Mickel

FIELD _____ STATE Utah COUNTY Wayne SEC. 4 T. 30 S. R. 13 E.

COMPANY Mountain Fuel Supply Co. FARM Dirty Devil Unit WELL NO. 1

LOCATION 2090' FEL 660' FSL ELEV. Gr. 5293'; KB 5306.6

DRILLING COMMENCED July 20, 1971 COMPLETED September 3, 1971

RIG RELEASED September 3, 1971 TOTAL DEPTH 6128'

CASING RECORD 10-3/4" from surface to 543.41' KBM

TUBING RECORD None

PERFORATIONS None

I. P. GAS None OIL None

SANDS No producing sandstones

SHUT-IN SURFACE PRESSURES None

REMARKS D & A

	<u>FROM</u>	<u>TO</u>
Sandstone, white to light orange, fine to medium-grained, rounded, very calcareous (alot of cement from plug).	555	600
As above.	600	630
As above, with some unconsolidated sandstone and not as calcareous.	630	660
Sandstone, as above; siltstone, light gray, slightly calcareous, less than 5%.	660	690
Sandstone and siltstone, as above, with chert, pure white, opaque, 40%.	690	720
As above.	720	780
As above, with no chert.	780	840
Sandstone, white to light orange (mottled), medium-grained, rounded, sub-rounded, very calcareous.	840	870
Sandstone, light orange, medium-grained, rounded, very calcareous; trace of silstone and shale.	870	900
As above.	900	930
Sandstone, light orange, medium-grained, rounded to sub-rounded, very calcareous, 60%; siltstone, orange to light red. slightly calcareous, 40%; trace shale.	930	960
As above.	960	990
As above; with some white, subangular sandstone.	990	1000
As above; with less than 10% orange to light red, siltstone.	1000	1010
Sandstone, light orange, medium-grained, rounded, very calcareous; trace of dull red to purple, shale.	1010	1020
As above.	1020	1030
As above; with siltstone, orange, slightly calcareous, 30%, probably cavings.	1030	1050
Sandstone, orange with some trace white, fine to medium-grained, fairly well sorted, rounded, very calcareous; trace of siltstone and purple shale.	1050	1060
As above, with sandstone 80%; siltstone, 20%; trace purple shale.	1060	1070
As above.	1070	1090

	<u>FROM</u>	<u>TO</u>
As above, with increasing siltstone.	1090	1100
Sandstone, orange, very fine-grained, extremely well sorted, rounded, very calcareous, hard and tight.	1100	1110
Sandstone, orange, fine to medium-grained, fairly well sorted, rounded, very calcareous; siltstone, orange, slightly calcareous, 25%; trace of black chert.	1110	1120
As above.	1120	1130
As above, with less siltstone.	1130	1140
As above.	1140	1170
Sandstone, light orange, fine-grained, fairly well sorted, rounded, very calcareous; siltstone, red, slightly calcareous, argillaceous, 30%.	1170	1180
As above, with trace gray, calcareous, siltstone, with black, cherty inclusions.	1180	1190
Sandstone, light orange, fine to medium-grained, fairly well sorted, rounded, very calcareous; siltstone, red, slightly calcareous, 15%; shale, light purple, red, soft, 5%.	1190	1200
As above, with no siltstone or shale.	1200	1210
As above, with shale, 5%; sandstone is unconsolidated.	1210	1220
As above.	1220	1240
No samples.	1240	1270
As above.	1270	1280
As above, with sandstone, mostly unconsolidated.	1280	1290
As above.	1290	1300
As above, with shale, red, fissile, 10%.	1300	1310
As above.	1310	1330
As above, with no shale and sandstone is unconsolidated.	1330	1340
As above.	1340	1360
Sandstone, orange, fine-grained, fairly well sorted, rounded, very calcareous, 50%; siltstone, red, slightly calcareous, 20%.	1360	1380
Sandstone, orange, fine to medium-grained, fairly well sorted, rounded to sub-rounded, very calcareous, 5%; siltstone, red, with some light gray to red mottling in part, slightly calcareous, 5%; trace dark shale.	1380	1390
Siltstone, red, with some light gray to red mottling in part, slightly calcareous, 50%; sandstone, orange, fine-grained, fairly well sorted, rounded, very calcareous, 10%; shale, red, fissile.	1390	1400
Sandstone, white, medium-grained, fairly well sorted, subangular to sub-rounded, very calcareous, 15%; shale, orange, soft and fissile; siltstone, orange, slightly calcareous, 60%.	1400	1410
As above, with some light gray, purple siltstone.	1410	1420
As above.	1420	1430
Sandstone, as above, 20%; siltstone, as above, 40%; limestone, light gray, coarsely-crystalline, sandy to silty.	1430	1440
As above.	1440	1470
Siltstone, orange to light brown, tan, calcareous; limestone, light gray, coarsely-crystalline, sandy to silty.	1470	1480
As above.	1480	1490
Siltstone, orange to light brown, tan, calcareous; sandstone, white, coarse-grained, poorly sorted, subangular, calcareous and bentonite, hard and tight.	1490	1500
As above, with less than 5% siltstone.	1500	1510
As above.	1510	1520
As above, with increasing siltstone.	1520	1530
As above.	1530	1540
Siltstone, orange, calcareous, 90%; sandstone, as above, 10%.	1540	1550

FARM Dirty Devil Unit WELL NO. 1COMPANY Mountain Fuel Supply Company

	FROM	TO
Siltstone, orange, calcareous, 90%; limestone, brown, gray, finely-crystalline, 10%.	1550	1560
As above.	1560	1580
As above, with some light colored oily limestone.	1580	1590
Siltstone, orange, calcareous, 80%; sandstone, white, medium-grained, poorly sorted to fairly well sorted, subangular to sub-rounded, calcareous and bentonite, hard and tight; shale, very light brown, gray, soft.	1590	1600
As above.	1600	1620
As above, with no sandstone.	1620	1630
Siltstone, orange, calcareous, 70%; limestone, brown, gray, with some light green and gray, finely-crystalline, 30%.	1630	1640
As above, with siltstone, 60%; limestone, 40%.	1640	1660
Limestone, brown, gray, finely-crystalline, 20%; siltstone, orange, with some green, calcareous and bentonite, 70%; trace white sandstone and chert.	1660	1670
As above.	1670	1680
As above, with increase in green siltstone; 50% of siltstone; slightly increase in white sandstone.	1680	1690
Sandstone, white to green-white, medium-grained, poorly sorted, subangular to sub-rounded, calcareous and bentonite, 40%; siltstone, green and orange, calcareous, 60%.	1690	1700
As above.	1700	1710
As above, with increasing sand and 20% orange siltstone and 40% gray-green siltstone.	1710	1720
Sandstone, white to very light green, fine to medium-grained, poorly sorted, subangular to sub-rounded; bentonite, 50%; siltstone, gray-green, with 10% orange, calcareous.	1720	1730
Sandstone, white, medium-grained, poorly sorted to fairly well sorted, subangular to sub-rounded, calcareous, hard and tight, 80%; siltstone, orange to gray-green, calcareous, 20%.	1730	1740
As above, with increase in siltstone; trace pyrite.	1740	1750
Siltstone, dull red, calcareous, 80%; sandstone, white, medium-grained, fairly well sorted, subangular to sub-rounded, calcareous, hard and tight; trace limestone.	1750	1760
Siltstone, dull red, calcareous, 100%; trace medium gray shale and white sandstone.	1760	1770
As above.	1770	1780
As above, with trace medium gray siltstone.	1780	1790
As above.	1790	1810
Siltstone, dull red, calcareous, 100%.	1810	1850
As above, with trace white sandstone.	1850	1900
As above.	1900	1910
Siltstone, dull red, calcareous, 60%.	1910	1920
No samples.	1920	1950
Limestone, white to light gray, finely-crystalline, 60%; siltstone, dull red, calcareous, 20%; sandstone, white, fine-grained, fairly well sorted, rounded, calcareous, hard and tight, 20%.	1950	1960
As above.	1960	1970
As above, with limestone, 33%; siltstone, 33%; sandstone, 33%.	1970	1980
Sandstone, white, very fine-grained, fairly well sorted, rounded, slightly calcareous, hard and dead oil stained, 30%; siltstone, dull red, slightly calcareous, 10%; limestone, white to very light blue-gray, finely-crystalline.	1980	1990
As above, with live oil stain.	1990	2030

FARM Dirty Devil Unit WELL NO. 1• COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Siltstone, dull red, slightly calcareous, 100%.	2030	2050
As above.	2050	2090
As above, with trace sandstone, white, fine-grained, fairly well sorted, rounded, calcareous, hard and tight.	2090	2100
Siltstone, dull red, slightly calcareous; sandstone, white, fine-grained, fairly well sorted, rounded to sub-rounded, calcareous, dead oil stain, 15%.	2100	2110
As above.	2110	2120
Limestone, white, very finely-crystalline, 70%; sandstone, white, fine-grained, fairly well sorted, rounded, calcareous, live oil stain, 30%.	2120	2130
As above.	2130	2140
Limestone, gray, fine to medium-crystalline, 70%; siltstone, dull red to gray, slightly calcareous, 30%.	2140	2150
Siltstone, dull red, slightly calcareous, micaceous, 90%; sandstone, white, fine to medium-grained, poorly sorted, subangular; bentonite, 10%.	2150	2160
As above.	2160	2190
Siltstone, blue-gray to red-gray, slightly calcareous, soft, 90%; sandstone, as above, 10%.	2190	2200
Sandstone, white, fine-grained, fairly well sorted, rounded, hard to unconsolidated, live oil stain, 95%; siltstone, dull red, slightly calcareous, 5%.	2200	2210
As above, with no siltstone.	2210	2220
As above.	2220	2250
Sandstone, as above; with siltstone that is probably cavings.	2250	2270
Sandstone, white, fine to medium-grained, fairly well sorted, rounded, unconsolidated.	2270	2300
As above.	2300	2370
As above, sandstone, white, fine to medium-grained, fairly well sorted, rounded, unconsolidated.	2370	2400
As above.	2400	2500
As above, with bimodal fine and coarse-grained distribution; and increasing bentonite.	2500	2550
As above, with very fine, unconsolidated sand; little bentonite.	2550	2570
As above, with bimodal, fine and coarse-grained distribution; and increasing bentonite.	2570	2600
As above.	2600	2610
Sandstone, white, fine-grained, fairly well sorted, calcareous; and bentonite, hard and tight; trace authigenic pyrite.	2610	2620
As above.	2620	2720
As above; but sandstone is unconsolidated and medium-grained.	2720	2750
Sandstone, white, fine to coarse-grained, smaller grain sizes, calcareous cemented and hard and tight, coarse-grained, unconsolidated.	2750	2780
Sandstone, white, fine-grained, very well sorted, rounded, calcareous and kaolinitic, tight.	2780	2790
Sandstone, tan, very fine-grained, fairly well sorted, calcareous, hard and tight, 95%; siltstone, gray, calcareous, 5%.	2790	2800
Siltstone, orange to dull red, slightly calcareous, 60%; sandstone, white, very fine-grained, very well sorted, calcareous, hard and tight, 40%.	2800	2810
As above, with sandstone, 10%; siltstone, 90%.	2810	2820
Sandstone, white, very fine-grained, very well sorted, calcareous, hard and tight, kaolinite, 80%; siltstone, orange and green, slightly calcareous, 20%.	2820	2830
As above.	2830	2840

	<u>FROM</u>	<u>TO</u>
As above, with decreasing green siltstone and slightly increasing in total siltstone.	2840	2850
As above.	2850	2870
As above, with some unconsolidated sand.	2870	2880
Sandstone, white, fine-grained, fairly well sorted, calcareous, kaolinitic, hard and tight, 85%; siltstone, orange, with some green, slightly calcareous, 15%.	2880	2890
As above.	2890	2900
Sandstone, white, fine-grained, fairly well sorted, calcareous, and kaolinitic, hard and tight, 95%; siltstone, orange, slightly calcareous, 5%.	2900	2930
As above, with trace siltstone.	2930	2950
Sandstone, cream, white, very fine-grained, very well sorted, rounded, hard and tight, 100%.	2950	3000
Sandstone, cream, white, very fine-grained and coarse (bimodal) rounded; bentonite and calcareous, tight.	3000	3050
As above, with trace orange siltstone.	3050	3070
As above, with increasing orange siltstone.	3070	3100
As above.	3100	3140
Sandstone, pure white, fine-grained, fairly well sorted, rounded, calcareous and highly bentonitic.	3140	3150
Sandstone, white, fine-grained, very well sorted, rounded, calcareous and bentonite, 100%; trace of pyrite.	3150	3200
As above.	3200	3350
Sandstone, white, fine-grained coarse (bimodal), fairly well sorted, rounded, calcareous and bentonitic.	3350	3400
As above.	3400	3420
As above, with trace medium gray, soft shale.	3420	3450
Sandstone, white, fine-grained and coarse (bimodal), fairly well sorted, rounded, calcareous and bentonitic, 100%.	3450	3500
As above.	3500	3530
As above, with no bimodal grains distributing to fine-grained.	3530	3590
As above.	3590	3690
Sandstone, white, very fine-grained, fairly well sorted, rounded, calcareous, with some chert, 90%; siltstone, orange to dull red, calcareous, 10%.	3690	3700
Sandstone, white, fine-grained, fairly well sorted, rounded to sub-rounded, calcareous; siltstone, brown to tan, calcareous, 45%; limestone, brown to gray-brown, coarsely-crystalline, less than 5%.	3700	3710
Limestone, gray-brown to gray, hard and dense, 90%; chert, dark yellow, hard and dense, fossiliferous.	3710	3720
As above, with carbonaceous, darker gray.	3720	3730
Sandstone, white, fine-grained, fairly well sorted, rounded to sub-rounded, calcareous with trace bentonite, 100%.	3730	3740
Sandstone, white to brown, fine-grained, fairly well sorted, sub-rounded to rounded, calcareous and argillaceous.	3740	3750
Sandstone, white to light brown, fine-grained, fairly well sorted, rounded, calcareous, 50%; limestone, light gray to medium gray, hard, 50%.	3750	3760
As above, with sandstone, 60%; calcsiltite, 40%; trace orange to dull red siltstone.	3760	3770
Limestone, very light gray to medium gray, hard, 60%; chert, gold, hard and vitreous, 40%.	3770	3780
As above, with no chert.	3780	3790
Limestone, medium gray, hard, 70%; siltstone, light gray to medium gray, slightly calcareous.	3790	3800

	FROM	TO
Sandstone, white, fine-grained, very well sorted, rounded, calcareous, 20%; limestone, medium gray, finely-crystalline, hard, 60%; siltstone, light gray, calcareous, 20%.	3800	3810
As above, with brown clay, very soft.	3810	3840
Limestone, light gray to medium gray, finely-crystalline, 80%; siltstone, very light gray, soft, calcareous, 20%.	3840	3850
Sandstone, white, very fine-grained, fairly well sorted, rounded, very calcareous, 60%; limestone, medium to dark gray to light brown gray, very finely-crystalline, hard, 40%.	3850	3860
As above, with limestone, 10%; sandstone 90%.	3860	3870
As above, with limestone, 90%; sandstone 10%.	3870	3880
Siltstone, dull red, micaceous, soft, 95%; sandstone, white, fine-grained, fairly well sorted, rounded, calcareous, 5%.	3880	3890
Sandstone, white, fine-grained, fairly well sorted, sub-rounded, calcareous; with pyrite and black cherty inclusions, 80%; siltstone, dull red, 20%	3890	3900
Sandstone, white, fine-grained, well sorted, rounded, calcareous, 90%; limestone, very light gray, finely-crystalline, 10%.	3900	3910
Limestone, medium gray, finely-crystalline, 40%; siltstone, dull red, 20%; sandstone, white, fine-grained, fairly well sorted, sub-rounded, calcareous, with black inclusions, 40%.	3910	3920
Siltstone, medium dull red, calcareous and micaceous, 90%; limestone, as above, 5%; sandstone, as above, 5%.	3920	3930
Siltstone, dull red, calcareous and micaceous, 10%; sandstone, white to light gray, very fine-grained, very well sorted, rounded, calcareous, 90%.	3930	3940
As above, with slight decrease in siltstone.	3940	3950
Limestone, light gray to medium dark gray, finely-crystalline, 60%; sandstone, white, very fine-grained, very well sorted, rounded, calcareous, hard, 40%.	3950	3960
As above, with less sandstone and lighter color limestone.	3960	3970
As above.	3970	3980
Siltstone, brown to red, very soft, micaceous and pyrite, 100%.	3980	3990
As above.	3990	4000
Limestone, medium gray, finely-crystalline, hard, 100%.	4000	4010
Sandstone, brown to white, fine-grained, poorly sorted, silty and very micaceous, 90%; limestone, light gray to medium gray, finely-crystalline, 10%.	4010	4020
Limestone, white to light gray, finely-crystalline, 70%; sandstone, white, fine-grained, fairly well sorted, rounded, calcareous and bentonitic, 20%; siltstone, brown, slightly calcareous, 10%.	4020	4030
As above, with no silstone and 50% limestone and 50% sandstone.	4030	4040
Limestone, light gray, finely-crystalline, hard, 100%.	4040	4050
Limestone, light gray, finely-crystalline, 90%; chert, red, hard, 5%; sandstone, white, fine and medium-grained, fairly well sorted, calcareous and bentonitic, 5%.	4050	4060
Siltstone, light gray, micaceous, slightly calcareous, 90%; sandstone, white, fine-grained, fairly well sorted, rounded, calcareous with black cherty inclusions, 10%.	4060	4070
Sandstone, white, fine-grained, fairly well sorted, rounded, calcareous and micaceous (biotite).	4070	4080
Siltstone, dark brown to gray, soft, 100%.	4080	4090
Sandstone, white, fine-grained, very well sorted, rounded, calcareous, 40%; siltstone, light gray, slightly calcareous, 40%; limestone, gray, finely-crystalline, hard, silty, 20%.	4090	4100

FARM Dirty Devil Unit WELL NO. 1

COMPANY Mountain Fuel Supply Company

	FROM	TO
Limestone, white to light gray-brown, fine-crystalline, soft to hard, 100%.	4100	4110
As above.	4110	4120
As above, with trace of light gray, micaceous siltstone.	4120	4130
Siltstone, medium dark gray, slightly calcareous, micaceous, 70%; limestone, medium dark gray, fine to medium-crystalline, 30%.	4130	4140
Limestone, light gray to light gray-brown, finely-crystalline, hard, 100%.	4140	4150
Limestone, light gray to medium dark gray, finely-crystalline, hard, 60%; siltstone, dark gray to brown, sandy, 40%.	4150	4160
Sandstone, white, fine-grained, fairly well sorted, sub-rounded to rounded, calcareous, hard and tight, micaceous, 100%.	4160	4170
As above, with trace siltstone.	4170	4180
Sandstone, as above; and limestone, medium gray, finely-crystalline.	4180	4190
Chert, white and black, brittle, 20%; limestone, medium dark gray, finely-crystalline, silty, 80%.	4190	4200
Limestone, light gray to light brown-gray, finely-crystalline, hard, 80%; sandstone, white, fine-grained, fairly well sorted, sub-rounded, bentonitic, silty.	4200	4210
As above, with slight increase in sandstone; anhydrite.	4210	4220
Limestone, light gray to light gray-brown, finely-crystalline, silty, 100%; anhydrite.	4220	4230
Limestone, light gray to medium gray, finely-crystalline, silty, 60%; sandstone, white, fine-grained, fairly well sorted, rounded, calcareous, 40%; trace white and amber chert; anhydrite.	4230	4240
As above; trace chert.	4240	4250
Limestone, dark gray, finely-crystalline, hard, 100%.	4250	4260
As above; trace chert.	4260	4270
As above; with medium gray-brown limestone; trace anhydrite.	4270	4280
As above; with light gray limestone.	4280	4290
As above.	4290	4300
As above, with trace of soft marl.	4300	4310
As above, with sandstone, white, fine-grained, very well sorted, rounded, calcareous, 15%.	4310	4320
As above.	4320	4340
Limestone, medium dark gray, finely-crystalline, hard, 90%.	4340	4350
As above, with anhydrite.	4350	4360
Limestone, light gray-brown, finely-crystalline, hard, 90%; anhydrite.	4360	4370
As above.	4370	4400
Limestone, very light gray-brown, finely-crystalline, 100%.	4400	4410
Limestone, light gray-brown, finely-crystalline, 100%.	4410	4420
Limestone, gray-brown, finely-crystalline, 100%.	4420	4430
Limestone, light gray, finely-crystalline, 100%.	4430	4440
Limestone, gray-brown, finely-crystalline, 100%; trace white chert.	4440	4450
As above.	4450	4460
Limestone, gray, finely-crystalline, 85%; siltstone, light gray, slightly calcareous, 15%.	4460	4470
Limestone, gray-brown, finely-crystalline, 100%.	4470	4500
Limestone, gray to gray-brown, finely-crystalline, hard to dense, sandy in part; trace chert.	4500	4560
Anhydrite, white to gray, very soft and soluble; gypsum; some dark gray limestone; abundant chert, white to clear to smoky.	4560	4580

	FROM	TO
Limestone, light to medium gray, finely-crystalline.	4580	4600
Anhydrite and gypsum.	4600	4610
Limestone, gray to tan to brown, very fine to finely-crystalline; abundant chert, clear, white, smoky black.	4610	4620
Limestone and chert, as above; with abundant anhydrite and gypsum.	4620	4640
Limestone, gray to tan, very fine to finely-crystalline, hard to dense.	4640	4660
Limestone, as above; with abundant chert.	4660	4670
Anhydrite and gypsum, white to gray, soft and very soluble; with some limestone and chert, as above.	4670	4700
Limestone, white to cream, firm, very finely-crystalline; with thin stringers anhydrite and gypsum.	4700	4750
Limestone, light gray to tan, very finely-crystalline, hard and dense; abundant chert, clear to smoky, with some black, vitreous.	4750	4770
Chert, as above; with some limestone, as above.	4770	4790
Limestone, light gray to light tan, very finely-crystalline to sucrosic, dolomitic, firm to hard and dense; with abundant chert, as above.	4790	4830
Limestone, medium to dark gray, firm to hard, sandy, fossiliferous in part; some chert, as above.	4830	4850
Limestone, light to medium gray, firm, fine to medium-crystalline, sandy; with abundant anhydrite and gypsum; chert, white to clear, smoky black.	4850	4900
Limestone, tan to cream to light gray, firm to hard, sandy to very sandy; chert, white to clear to smoky black; with some anhydrite and gypsum.	4900	4950
Limestone, light gray to light tan, firm, finely-crystalline to sucrosic, sandy in part; dolomite in part; some anhydrite; gypsum and chert.	4950	4970
Limestone, tan to brown, firm to hard, sucrosic; dolomite in part; some chert, smoky to black, vitreous.	4970	4990
Limestone, as above; with slight increase chert.	4990	5000
Limestone, as above; with some shale, black, silty, calcareous, carbonaceous, firm, black, micaceous.	5000	5010
Limestone, light tan to gray, sandy; with abundant anhydrite.	5010	5030
Anhydrite and gypsum; with some limestone, as above.	5030	5040
Anhydrite and gypsum, as above; with some limestone, as above.	5040	5090
Anhydrite and gypsum, as above; with some limestone, as above.	5090	5110
Limestone, tan to light gray, firm, sandy in part; with abundant anhydrite and gypsum.	5110	5120
Anhydrite and gypsum, white, very soft, very soluble, 80-90%; with some limestone, as above.	5120	5150
Anhydrite and gypsum, as above, 80-90%; with some limestone, as above.	5150	5180
As above.	5180	5200
Limestone, light tan to gray, firm, sandy; with some shale, black, fissile, carbonaceous.	5200	5210
Anhydrite and gypsum; with some limestone, as above.	5210	5270
Anhydrite and gypsum, as above; with some shale, black, fissile, carbonaceous.	5270	5280
Anhydrite and gypsum; with some limestone, light gray to light tan.	5280	5290
Anhydrite and gypsum.	5290	5300
Anhydrite and gypsum, 60-80%.	5300	5330
Limestone, light gray to light tan, very finely-crystalline to sucrosic, hard and dense; with 50% anhydrite and gypsum.	5330	5370
Limestone, as above, but slight increase; with decrease anhydrite and gypsum.	5370	5380

FARM Dirty Devil Unit WELL NO. 1COMPANY Mountain Fuel Supply Company

	<u>FROM</u>	<u>TO</u>
Limestone, light gray to light tan, very finely-crystalline to sucrosic; with some anhydrite and gypsum.	5380	5400
Limestone, as above.	5400	5420
Limestone, as above; with track black shale, fissile, sooty.	5420	5430
Limestone, as above.	5430	5440
Limestone, as above; with some dolomite.	5440	5450
Limestone, tan to light gray, very finely-crystalline to dolomitic, sandy	5450	5470
Limestone, as above.	5470	5500
Limestone, light gray to light tan, sandy-very finely-crystalline.	5500	5520
Limestone, tan to cream, very finely-crystalline, dolomitic in part.	5520	5550
Limestone, tan to cream, very finely-crystalline to sucrosic.	5550	5580
As above.	5580	5610
Limestone, light gray to brown, very finely-crystalline to sucrosic.	5610	5620
As above; with trace chert.	5620	5650
As above.	5650	5660
Limestone, light gray-brown to medium gray, finely-crystalline.	5660	5670
Siltstone, brown to orange, slightly calcareous, 30%; claystone, brown, tan, very soft and silty, 20%; limestone, light gray, brown, finely-crystalline, 50%.	5670	5680
Limestone, as above, 50%; siltstone, as above, less than 10%; anhydrite and gypsum, 50%.	5680	5690
As above; with no siltstone.	5690	5700
Limestone, light gray, brown, with some medium gray, finely-crystalline; anhydrite.	5700	5720
Limestone, light gray-brown to dark gray, finely-crystalline; siltstone, dark brown, slightly calcareous; anhydrite and gypsum.	5720	5730
Claystone, very light red, soft and plastic; anhydrite.	5730	5740
As above.	5740	5750
Siltstone, medium dark red to light green, slightly calcareous and soft, varigated, 40%; limestone, medium dark gray, fine to medium-crystalline, 30%; claystone, white to brown, slightly calcareous, soft and plastic, 20%.	5750	5780
Siltstone, medium dark red to light green, slightly calcareous and soft.	5780	5790
As above; with increase in claystone.	5790	5800
Claystone, varigated, medium dark red and gray-green, 100%.	5800	5810
Siltstone, medium dark red to light green-gray, slightly calcareous; soft limestone, medium gray, finely-crystalline; trace anhydrite and chert.	5810	5820
As above; with increase in limestone and decrease in siltstone.	5820	5830
Claystone, red, soft and plastic, 18%; limestone, medium gray, finely-crystalline, 10%.	5830	5850
As above; with increase in limestone.	5850	5860
As above; with limestone, 50%.	5860	5870
Limestone, white to cream, very finely-crystalline; trace anhydrite; siltstone, red.	5870	5890
As above; with chert.	5890	5900
As above.	5900	5940
As above; with dolomite, 60%.	5940	5950

FIELD _____ SEC. 4 T. 30 S. R. 13 E. PAGE 10

FARM Dirty Devil Unit WELL NO. 1

• COMPANY Mountain Fuel Supply Company

=====

	<u>FROM</u>	<u>TO</u>
Limestone, cream, finely-crystalline; dolomite, very light gray to dark gray; shale, red, soft, 20%.	5950	5960
As above.	5960	5970
Dolomite, white, finely-crystalline, hard, 60%; limestone, white, finely-crystalline, 40%.	5970	5980
As above.	5980	6010
Dolomite, white, finely-crystalline, hard, 100%.	6010	6040
Dolomite, as above, 80%; limestone, white, finely-crystalline, 20%.	6040	6129



CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER Mountain Fuel Supply Company LAB NO. 6285-3 REPORT NO. _____
 OPERATOR Mountain Fuel Supply Company LOCATION Section 4-30S-13W
 WELL NO. No. 1 Dirty Devil Unit FORMATION _____
 FIELD Wildcat INTERVAL 6043-6129
 COUNTY Wayne SAMPLE FROM DST No. 9
 STATE Utah DATE September 14, 1971

REMARKS & CONCLUSIONS: Cloudy water.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	7341	319.17	Sulfate	4424	92.02
Potassium	250	6.40	Chloride	11150	314.43
Lithium	-	-	Carbonate	0	-
Calcium	1327	66.22	Bicarbonate	915	15.01
Magnesium	361	29.67	Hydroxide	-	-
Iron	absent	-	Hydrogen sulfide	absent	-
Total Cations 421.46			Total Anions 421.46		

Total dissolved solids, mg/l 25304
 NaCl equivalent, mg/l 23183
 Observed pH 8.0

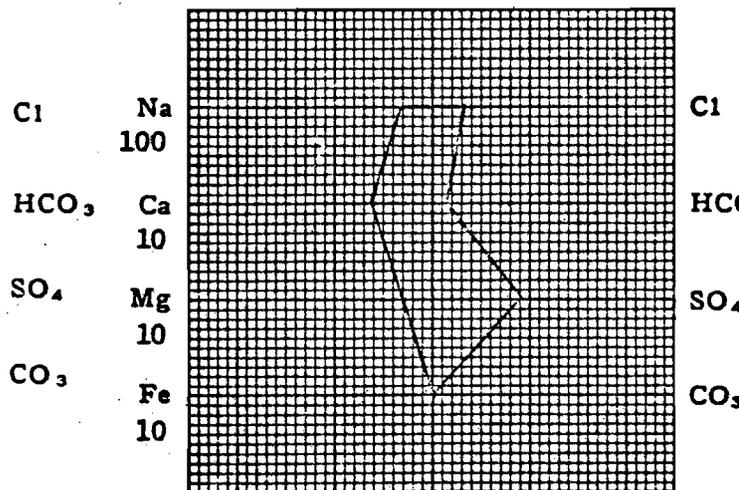
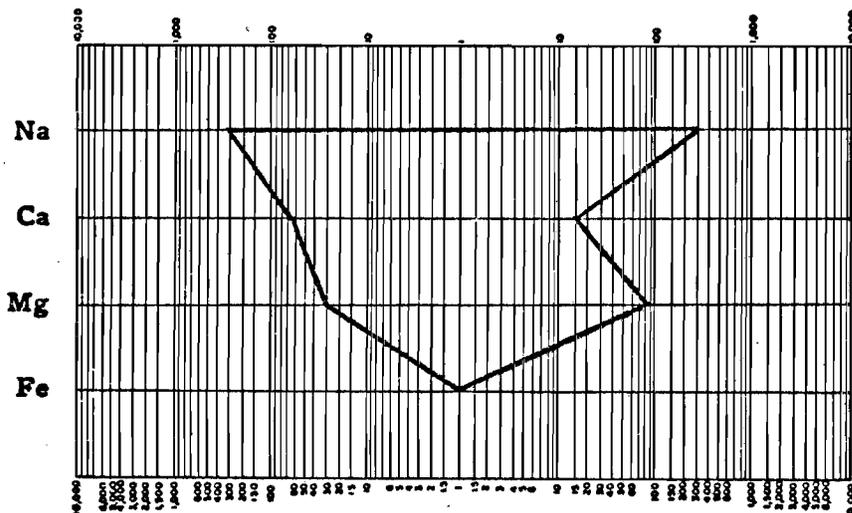
Specific resistance @ 68° F.:
 Observed 0.349 ohm-meters
 Calculated 0.315 ohm-meters

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	LAB NO.	6285-1	REPORT NO.	
OPERATOR	Mountain Fuel Supply Company	LOCATION	Section 4-30S-13W		
WELL NO.	Dirty Devil Unit No. 1	FORMATION			
FIELD	Wildcat	INTERVAL	2192-2240		
COUNTY	Wayne	SAMPLE FROM	DST No. 3		
STATE	Utah	DATE	September 14, 1971		

REMARKS & CONCLUSIONS: Cloudy water.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	637	27.70	Sulfate	1697	35.30
Potassium	104	2.66	Chloride	880	24.82
Lithium	-	-	Carbonate	0	-
Calcium	720	35.93	Bicarbonate	1318	21.62
Magnesium	188	15.45	Hydroxide	-	-
Iron	absent	-	Hydrogen sulfide	absent	-
Total Cations		81.74	Total Anions		81.74

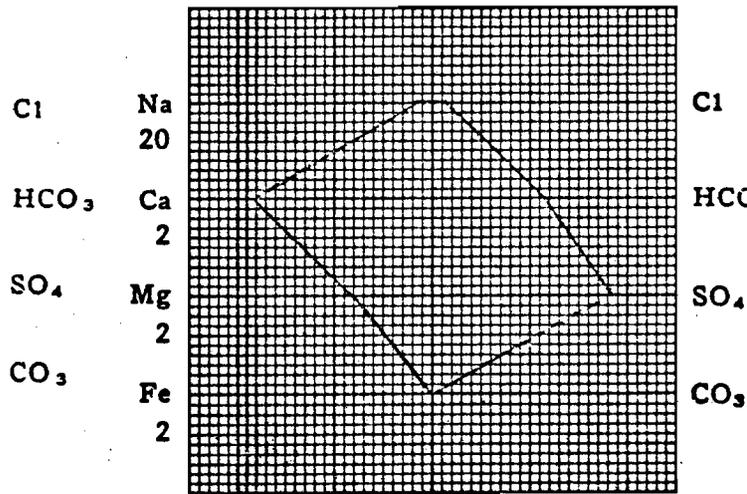
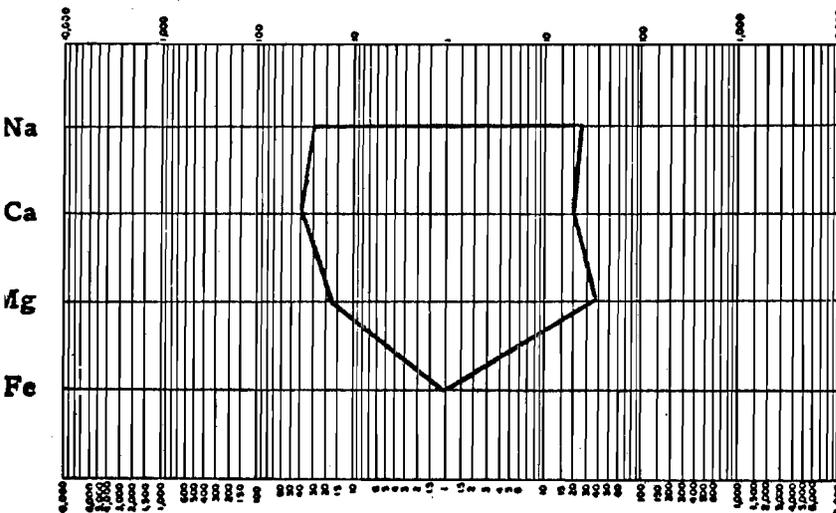
Total dissolved solids, mg/l	4875	Specific resistance @ 68° F.:	
NaCl equivalent, mg/l	3885	Observed	1.83 ohm-meters
Observed pH	7.5	Calculated	1.65 ohm-meters

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	LAB NO.	6285-2	REPORT NO.	
OPERATOR	Mountain Fuel Supply Company	LOCATION	Section 4-30S-13E	FORMATION	
WELL NO.	No. 1 Dirty Devil Unit	INTERVAL	5540-5610	SAMPLE FROM	DST No. 6
FIELD	Wildcat	DATE	September 14, 1971		
COUNTY	Wayne				
STATE	Utah				

REMARKS & CONCLUSIONS: Cloudy water.

Cations			Anions		
	mg/l	meq/l		mg/l	meq/l
Sodium	41468	1802.97	Sulfate	6370	132.50
Potassium	420	10.75	Chloride	65000	1833.00
Lithium	-	-	Carbonate	0	-
Calcium	1943	96.96	Bicarbonate	281	4.61
Magnesium	723	59.43	Hydroxide	-	-
Iron	absent	-	Hydrogen sulfide	absent	-
Total Cations		1970.11	Total Anions		1970.11

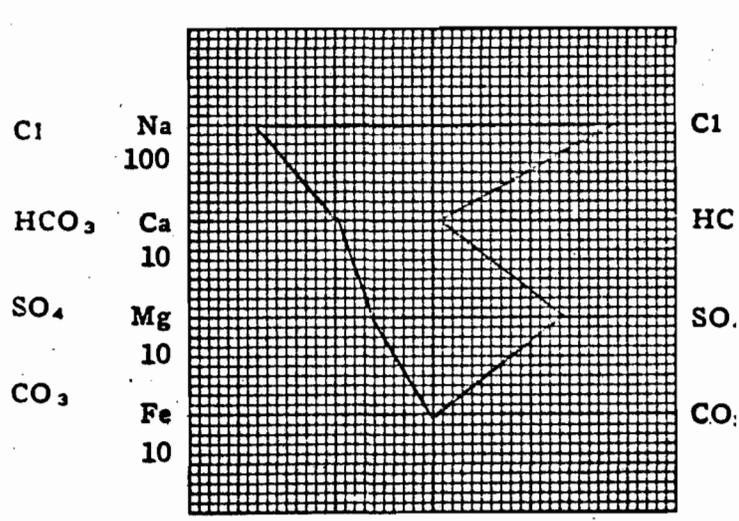
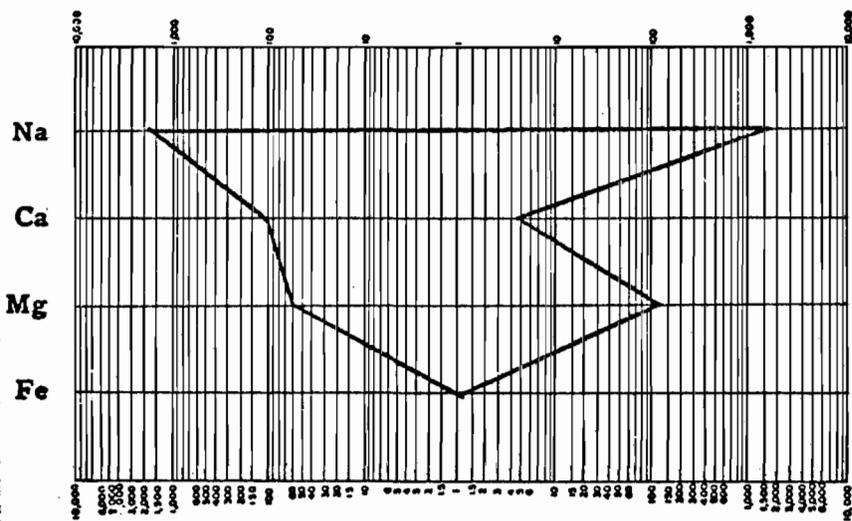
Total dissolved solids, mg/l	116,062	Specific resistance @ 68° F.:	
NaCl equivalent, mg/l	113,441	Observed	0.092 ohm-meters
Observed pH	7.3	Calculated	0.085 ohm-meters

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE
LEASE NUMBER
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Wayne Field Dirty Devil Area

The following is a correct report of operations and production (including drilling and producing wells) for the month of JUL 1971, 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 CHIEF ACCOUNTANT

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCTION	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)
SW SE 4	30S	13E	1	Jack E. Blankenship Utah 10226						Spud July 20, 1971 2504' Drilling

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 TR. DATE*
(Other instructions on re-verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 10226

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 Dirty Devil 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 2090' FEL, 660' FSL SW SE		10. FIELD AND POOL, OR WILDCAT Wildcat
14. PERMIT NO. -		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW SE 4-30S-13E., S.L.M.
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 5293'		12. COUNTY OR PARISH Wayne
		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"/>	

(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 2381', drilling.

DST #2: 2122-2158', Moenkopi, IO 1/2 hr., ISI 1 hr., FO 1 hr., FSI 1 1/2 hrs., opened dead on both openings, remained dead throughout, recovered 10' mud.
IHP 972, IOFP's 27-27, ISIP 27, FOFP's 27-27, FSIP 27, FHP 972.

DST #3: 2194-2240', White Rim, IO 1/2 hr., ISI 1 hr., FO 1 hr., FSI 1 1/2 hrs., opened strong throughout initial opening, reopened dead, remaining dead throughout, recovered 282' mud and 648' water.
IHP 1036, IOFP's 69-401, ISIP 401, FOFP's 401-401, FSIP 401, FHP 1036.

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

SIGNED [Signature] TITLE Vice President Gas Supply Operations DATE August 4, 1971

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

August 6, 1971

MEMO FOR FILING

Re: Mountain Fuel Supply Company
Drity Devil Unit #1
Sec. 4, T. 30 S, R. 13 E,
Wayne County, Utah

On August 3, 1971, the above referred to well was visited.

Met with driller, Mr. Howard Hammons, and an inspection was made of the Loffland Brothers Drilling Company's rig. The overall check of the rig and associated equipment was considered only fair.

At the time of the visit they were shut-down for pump repairs. The operator had reached a depth near 2,400', but plugged back to 2,240' due to a crooked hole. They were at a depth of 2,358' when the pump blew out. Oil shows were encountered in the White Rim Formation and tested with no recovery. Mountain Fuel Supply Company proposes to continue drilling to a depth of 6,500' and test the Mississippian.

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:ck

cc: U.S. Geological Survey

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIP!
(Other instructions
reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 10226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

Dirty Devil 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

SW SE 4-30S-13E., S.L.M.

14. PERMIT NO.

-

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

GR 5293'

12. COUNTY OR PARISH

Wayne

13. STATE

Utah

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)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT*

(Other) Supplementary history

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 3381', drilling.

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

SIGNED

S. M. Craft

TITLE

Vice President
Gas Supply Operations

DATE

August 11, 1971

(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 10226

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

7. UNIT AGREEMENT NAME
Dirty Devil 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
2090' FEL, 660' FSL SW SE

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SW SE 4-30S-13E., S.L.M.

14. PERMIT NO. - 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 5306.60' GR 5293'

12. COUNTY OR PARISH 13. STATE
Wayne Utah

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 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) <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 4610', drilling.

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

SIGNED B. W. Croft TITLE Vice President, Gas Supply Operations DATE Aug. 18, 1971

(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 10226

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 Dirty Devil 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 2090' FEL, 660' FSL SW SE		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO. -		15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 5306.60' GR 5293'	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SW SE 4-30S-13E., S.L.M.	12. COUNTY OR PARISH Wayne
			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 5325', making DST #5.

DST #4: 4752-4832', Paradox, IO 1/2 hour, ISI 1 hour, FO 1 hour, FSI 1 1/2 hours, opened dead on both openings, no gas, recovered 25' mud.
IHP 2312, IOFP's 8-11, ISIP 152, FOFP's 11-11, FSIP 111, FHP 2284.

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

SIGNED B. N. Craft, Jr. TITLE Vice President, Gas Supply Operations DATE Aug. 24, 1971

(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 instruction on reverse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.
Utah 10226

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 2090' FEL, 660' FSL SW SE</p>	<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME Dirty Devil 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 SW SE 4-30S-13E., S.L.M.</p> <p>12. COUNTY OR PARISH Wayne</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO. -</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 5306.60' GR 5293'</p>

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

<p>TEST WATER SHUT-OFF <input type="checkbox"/></p> <p>FRACTURE TREAT <input type="checkbox"/></p> <p>SHOOT OR ACIDIZE <input type="checkbox"/></p> <p>REPAIR WELL <input type="checkbox"/></p> <p>(Other) <input type="checkbox"/></p>	<p>PULL OR ALTER CASING <input type="checkbox"/></p> <p>MULTIPLE COMPLETE <input type="checkbox"/></p> <p>ABANDON* <input type="checkbox"/></p> <p>CHANGE PLANS <input type="checkbox"/></p>	<p>WATER SHUT-OFF <input type="checkbox"/></p> <p>FRACTURE TREATMENT <input type="checkbox"/></p> <p>SHOOTING OR ACIDIZING <input type="checkbox"/></p> <p>(Other) Supplementary history <input checked="" type="checkbox"/></p>	<p>REPAIRING WELL <input type="checkbox"/></p> <p>ALTERING CASING <input type="checkbox"/></p> <p>ABANDONMENT* <input type="checkbox"/></p>
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(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 5940', making DST #8.

DST #5: 5260-5325', Paradox, IO 1/2 hour, ISI 1 hour, FO 1 hour, FSI 1 1/2 hours, opened dead on both openings remaining dead, recovered 20' mud.
IHP 2646, IOFP's 8-8, ISIP 55, FOFP's 8-10, FSIP 19, FHP 2632.

DST #6: 5540-5610', Pinkerton Trail, IO 1/2 hour, ISI 1 1/2 hours, FO 2 hours, FSI 3-3/4 hours, opened strong continuing, reopened strong decreasing to dead at end of test, no gas, recovered 300' mud, 564' muddy water and 3164' water.
IHP 2785, IOFP's 207-937, ISIP 1825, FOFP's 1008-1839, FSIP 1839, FHP 2730.

DST #7: 5868-5940', Mississippian, mis-run, no packer seat.

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

SIGNED B. H. Croft TITLE Vice President,
Gas Supply Operations DATE Aug. 30, 1971

(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

LAND OFFICE Utah
LEASE NUMBER
UNIT Dirty Devil

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Wayne Field Dirty Devil Area

The following is a correct report of operations and production (including drilling and producing wells) for the month of AUG 1971, 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 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)
			Dirty Devil Unit #1 Jack E. Blankenship Utah 10226							
SW SE 4	30S	13E	1							Spud July 20, 1971 6,128' Drilling

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.

1. Tom Colson - Mtn 7 eds - (Sept. 1) 1971

↳ Dirty Devil #1

T.D. - G129

Navy - surface

Hayonta - 825

Wingab - 1032

Chidki - 1371

Shinarump - 1715

Hamakipi - 1780 - DST - ~~min~~

White Wash - 2200 (Katergona) DST - ~~min~~

Oregon Pools - 2768

Cal. near - 2860

Norah Trail - 3680

Pargolot - 4430

Panther Trail - 5340

Molas - 5712 - tight

Redwell Ln - 5860 - DST - 1000' fluid (tight @)

set (near top thin)
① 70' - 5500 - 5700
(top of Molas)
(5600) sand/south

② 70' 3600 - 3800
massive sand base
of Norah Trail
(near top of Perm)

③ 70' 2900 to 2700
~~top~~ top of Cal. near base of White Perm

④ 70' 2350 to 2100 top of White Perm

⑤ 70' 1450 to 1250 top of Chidki - look like good d/SS

⑥ 450 to 600 - 100' in Pipe; 50' out
65' x

⑦ 10' in pipe/marker/ 9 lb - 51' surface

set bottom plug & test 2000 - 2080 (base of Hamakipi produced oil in area)

Can't get Jerry (USGS.)

None OK PWB

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRI-TE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 10226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

-

7. UNIT AGREEMENT NAME

Dirty Devil 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

SW SE 4-30S-13E., S.L.M.

12. COUNTY OR PARISH

Wayne

13. STATE

Utah

1. OIL WELL GAS WELL OTHER Dry 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
2090' FEL, 660' FSL SW SE

14. PERMIT NO.
-

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
KB 5306.60' GR 5293'

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) <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.)*

TD 6128'.
DST #8: 5894-5940', Mississippian, IO 1/2 hour, ISI 1 hour, FO 1 hour, FSI 1 1/2 hours, opened very weak, dead in 5 minutes, reopened very weak, dead in 10 minutes, recovered 30' mud. IHP 2994, IOFP's 13-28, ISIP 1825, FOFP's 28-41, FSIP 1769, FHP 2966.
DST #9: 6043-6128', Mississippian, IO 1/2 hour, ISI 1 hour, FO 1 hour, FSI 1 1/2 hours, opened strong, reopened weak increasing to strong and slowly decreasing, dead in 3/4 hour, no gas, recovered 1090' mud cut water and 3680' water. IHP 3106, IOFP's 691-1908, ISIP 2117, FOFP's 1936-2117, FSIP 2117, FHP 3078.

Verbal approval was granted on September 1, 1971 during a telephone conversation between Mr. Burchell with the Utah Department of Natural Resources and Mr. Colson with Mountain Fuel to plug and abandon the subject well by laying the following plugs:

- Plug No. 1: 5700-5500', 70 sacks
- Plug No. 2: 3800-3600', 70 sacks
- Plug No. 3: 2900-2700', 70 sacks
- Plug No. 4: 2300-2100', 70 sacks
- Plug No. 5: 1450-1250', 70 sacks
- Plug No. 6: 600-450', 65 sacks
- Plug No. 7: 10' plug in surface pipe.

18. I hereby certify that the foregoing is true and correct
SIGNED B. W. Croft TITLE Vice President, Gas Supply Operations DATE Sept. 2, 1971

(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 DUP. TE*

(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 10226	
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 Dirty Devil Unit	
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		8. FARM OR LEASE NAME Unit Well	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2090' FEL, 660' FSL SW SE At top prod. interval reported below At total depth		9. WELL NO. 1	
14. PERMIT NO. _____ DATE ISSUED _____		10. FIELD AND POOL, OR WILDCAT Wildcat	
15. DATE SPUNDED 7-20-71		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA SW SE 4-30S-13E., S.L.M.	
16. DATE T.D. REACHED 8-31-71		12. COUNTY OR PARISH Wayne	
17. DATE COMPL. (Ready to prod.) 9-3-71		13. STATE Utah	
18. ELEVATIONS (DF, REB, RT, GR, ETC.)* KB 5306.60' GR 5293'		19. ELEV. CASINGHEAD -	

20. TOTAL DEPTH, MD & TVD 6128'	21. PLUG, BACK T.D., MD & TVD 0'	22. IF MULTIPLE COMPL., HOW MANY* -	23. INTERVALS DRILLED BY → 0-6128'	24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Dry and abandoned	25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN Sidewall Neutron, Dual Induction Laterolog, BHC Sonic-GR					27. WAS WELL CORED No

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	543.41	13-3/4	344	0

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

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* 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.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
Logs as above, Well Lithology and Well Completion 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 B. W. Croft Jr TITLE Gas Supply Operations DATE Sept. 3, 1971
Vice President,

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

COMPLETION REPORT

Well: Dirty Devil Unit Well No. 1 Date: _____

Area: Dirty Devil Unit Lease No: Utah 10226

New Field Wildcat Development Well Shallower Pool Test

New Pool Wildcat Extension Deeper Pool Test

Location: 2090 feet from east line, 660 feet from south line

SW $\frac{1}{4}$ SE $\frac{1}{4}$

Section 4, Township 30 S., Range 13 E.

County: Wayne State: Utah

Operator: Mountain Fuel Supply Company

Elevation: KB 5306.6 Gr 5293 Total Depth: Driller 6128' Log 6127'

Drilling Commenced: July 20, 1971 Drilling Completed: September 1, 1971

Rig Released: September 3, 1971 Well Completed: September 3, 1971

Sample Tops: (unadjusted)

Kayenta	830'	Organ Rock	2794'
Wingate	1030'	Cedar Mesa	2897'
Chinle	1380'	Honaker Trail	3700'
Shinarump	1710'	Paradox	4500'
Moenkopi	1780'	Pinkerton Trail	None
White Rim	2194'	Molas	5720'
		Redwall Limestone	5868'

Sample Cuttings: 30' 555' to 1000'
10' 1000' to 6128'

Log Tops:

Kayenta	825'
Wingate	1032'
Chinle	1371'
Shinarump	1715'
Moenkopi	1780'
White Rim	2200'
Organ Rock	2768'
Cedar Mesa	2860'
Honaker Trail	3680'
Paradox	4430'
Pinkerton	5340'
Trail	
Molas	5712'
Redwall	5860'
Limestone	

Status: D & A

Producing Formation: None

Perforations: None

Stimulation: None

Production: None

Plug Back Depth: None

Plugs: 5700'-5500' 70 sacks; 3800'-3600' 70 sacks; 2900'-2700' 70 sacks;
2300'-2100' 70 sacks; 1450'-1250' 70 sacks; 600'-450' 65 sacks; surface 10 sacks
Hole Size: 13-3/4" from surface to 560'; 8-3/4" from 560' to 6128'

Casing/Tubing: 10-3/4" 543.41 KBM with 344 sacks

Logging - Mud: Core Laboratories, Inc. 555' to 6128'

Mechanical: DIL, BHC/GR, SNP

Contractor: Loffland Brothers Company

Completion Report Prepared by: G. G. Francis

Remarks: Lost circulation and crooked hole problems were encountered during drilling.

COMPLETION REPORT (cont.)

Well: Dirty Devil Unit Well No. 1

Area: Dirty Devil Unit

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>
1	2002-2030	925	(30)	(60)	(60)	(90)	925		Misrun.
2	2122-2158	972	10-10 (30)	10 (60)	10-10 (60)	10 (90)	997	None	NGTS, Rec. 10' mud.
3	2194-2240	1035	77-401 (30)	401 (60)	401-401 (60)	401 (90)	1015	Water	NGTS, Rec. 282' mud, 648' water.
4	4752-4832	2304	21-21 (30)	156 (60)	28-28 (60)	119 (90)	2272	None	NGTS, Rec. 25' mud.
5	5261-5325	2614	23-25 (30)	59 (60)	29-32 (60)	43 (90)	2577	None	NGTS, Rec. 20' mud.
6	5540-5610	2772	224-942 (30)	1842 (90)	1004-1829 (120)	1839 (225)	2724	Water	NGTS, Rec. 300' mud, 564' muddy water, 3164' salt water.
7	5868-5940								Misrun, no packer seat.
8	5894-5940	2994	21-28 (30)	1842 (60)	33-48 (60)	1790 (90)	2946	None	NGTS, Rec. 30' drilling mud.
9	6043-6128	3047	706-1931 (30)	2132 (60)	1956-2135 (60)	2135 (90)	2992	Water	NGTS, Rec. 910' mud cut water, 180' water cut mud, 3680' water.

FORM OGC-8-X

FILE IN QUADRUPLICATE

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 Dirty Devil Well No. 1
Operator Mountain Fuel Supply Address 180 E 1 S Phone 328-8315
Contractor Loffland Brothers Address _____ Phone _____
Location SW 1/4 SE 1/4 Sec. 4 T. 30 N. R. 13 (E) Wayne County, Utah
(S) (W)
Water Sands: 2194-2240, 5540-5610, 6043-6129

<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>2194 - 2240</u>	<u>unknown</u>	<u>Fresh</u>
2.	<u>5540 - 5610</u>	<u>unknown</u>	<u>Salty</u>
3.	<u>6043 - 6129</u>	<u>unknown</u>	<u>Salty</u>
4.	_____	_____	_____
5.	_____	_____	_____

(Continue on reverse side if necessary)

Formation Tops: Kayenta-825, Wingate-1032, Chinle-1371, Shinarump-1715,
moenkopi-1780, white Rim-2200, Organ Rock-2768, cedar
mesa-2860, Honaker trail-3680, Paradox-4430, Pinkerton
trail-5340, molar-5712, Redwall Limestone-5860

Remarks:

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

RULE C-20

REPORTING OF FRESH SANDS

It shall be the duty of any person, operator or contractor drilling an oil or gas well or drilling a seismic, core or other exploratory hole to report to this office all fresh water sands encountered; such report shall be in writing and give the location of the well or hole, the depth at which the sands were encountered and the thickness of such sands, and the rate of flow of water if known.

If no fresh water sands are encountered, it is requested that a negative report to that effect be filed.

1/19/62
1971

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPL.
(Other instructions
reverse side)

E*
re-

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 10226

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

2090' FEL, 660' FSL SW SE

7. UNIT AGREEMENT NAME

Dirty Devil 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

SW SE 4-30S-13E., S.L.M.

14. PERMIT NO.

-

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

KB 5306.60' GR 5293'

12. COUNTY OR PARISH

Wayne

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.)*

TD 6128', PBD 0', rig released September 3, 1971, well plugged and abandoned as follows:

- Plug No. 1: 5700-5500', 70 sacks
- Plug No. 2: 3800-3600', 70 sacks
- Plug No. 3: 2900-2700', 70 sacks
- Plug No. 4: 2300-2100', 70 sacks
- Plug No. 5: 1450-1250', 70 sacks
- Plug No. 6: 600-450', 65 sacks
- Plug No. 7: 10 sacks in top of surface pipe.

An 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

B. W. Croft

TITLE

Vice President,
Gas Supply Operations

DATE

Sept. 3, 1971

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

September 13, 1971

Mountain Fuel Supply Company
Box 1129
Rock Springs, Wyoming

Re: Well No. Dirty Devil #1
Sec. 4, T. 30 S, R. 13 E,
Wayne County, Utah

Gentlemen:

This letter is to advise you that as of this date, we have not received the electric and/or radioactivity logs run on the above referred to well.

It would be appreciated if these logs could be forwarded to our office at your earliest convenience in order that our files may be kept accurate and complete.

Thank you for your cooperation with regard to the above.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE
SECRETARY

:sd

Received

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Utah
LEASE NUMBER
UNIT Dirty Devil

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Wayne Field Dirty Devil Area

The following is a correct report of operations and production (including drilling and producing wells) for the month of SEP 1971, 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 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 month of last fire gasoline content of gas)
<u>Dirty Devil Unit #1 - Jack E. Blankenship Utah 10226</u>										
SW SE 4	30S	13E	1							Spud July 20, 1971 T.D. 6128' PBD 0' Dry and Abandoned 9-3-71 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.

March 31, 1972

MEMO FOR FILING

Re: Mountain Fuel Supply Company
Dirty Devil Unit #1
Sec. 4, T. 30 S, R. 13 E,
Wayne County, Utah

On March 29, 1972, the above referred to location was visited.

This location has been identified, cleaned, leveled, and the marker erected. It is therefore, recommended that liability under the bond be released.


CLEON B. FEIGHT
DIRECTOR

CBF:ck

cc: U.S. Geological Survey