FILE NOTATIONS

Entered in NID File .....✓

Location Map Pinned .....✓

Card Indexed .....✓

Checked by Chief PWB 7-12-74

Approval Letter

Disapproval Letter .....

COMPLETION DATA:

Date Well Completed 8-22-74

Location Inspected .....

Bond released

State or Fee Land .....

W..... WW..... TA.....

W..... OS..... PA.✓...

LOGS FILED

Driller's Log.....✓

Electric Logs (No.) ...✓...

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

BHC Sonic GR..... Lat..... Mi-L..... Sonic.....

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

360' Top for South 820' Mtn Fuel 7/5/74

Monty #1 Rock Springs

1180' FNL & 690 FEL

NENE sec 36 T38S R25E

San Juan

ML-25381 — ~~State~~

5800 T.D.

$10\frac{3}{8}$" @ 470' / 370 sx

$4\frac{1}{2}$" 5800

Desert Creek

Mr. Babatek
Box 1129
Rock Springs
Wyoming
82901

because of topog.
Qual C-3

Verbal Approval — PWB

Form DOGC-1a

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No.: ML - 25381

6. If Indian, Allottee or Tribe Name: -

7. Unit Agreement Name: -

8. Farm or Lease Name: Monty

9. Well No.: 1

10. Field and Pool, or Wildcat: Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area: NE NE 36-38S-25E., SLB&M

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: Oil Well [ ] Gas Well [X] 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: 1180' FNL, 690' FEL NE NE
At proposed prod. zone:

12. County or Parrish: San Juan 13. State: Utah

14. Distance in miles and direction from nearest town or post office*: 32 miles southeast of Monticello, Utah

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 140' / -

16. No. of acres in lease: 160

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: 5800'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): GR 4903'

22. Approx. date work will start*: July 14, 1974

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	470'	370
7-7/8	4-1/2	11.6	to be determined	

We would like to drill the subject well to an estimated depth of 5800', anticipated formation tops are as follows: Morrison at the surface, Summerville at 50', Entrada at 130', Carmel at 330', Navajo at 420', Kayenta at 620', Wingate at 950', Chinle at 1420', Shinarump at 2160', Moenkopi at 2250', Cutler at 2370', Honaker Trail at 3950', Paradox at 4620', Upper Ismay zone at 5080', Lower Ismay zone at 5380', "B" Marker at 5450', Desert Creek at 5470', and salt at 5590'.

This location does not meet spacing requirements, therefore we would like to be granted an exception to Rule C-3 for topographical reasons.

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: BW Croft Title: Vice President, Gas Supply Operations Date: July 10, 1974

(This space for Federal or State office use)

Permit No. 43-037-30184 Approval Date

Approved by Title Date

Conditions of approval, if any:

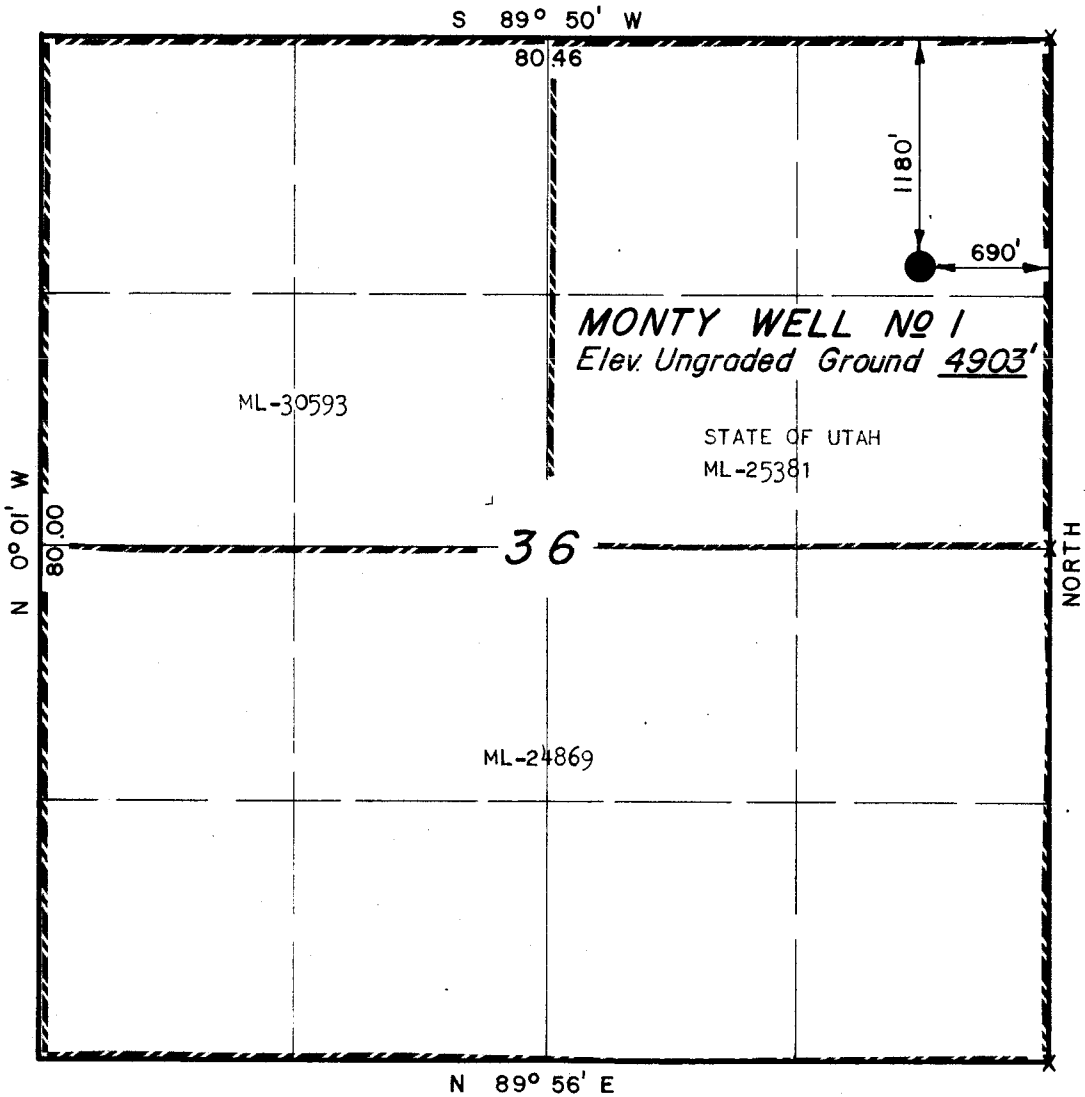
*See Instructions On Reverse Side

PROJECT

MOUNTAIN FUEL SUPPLY COMPANY

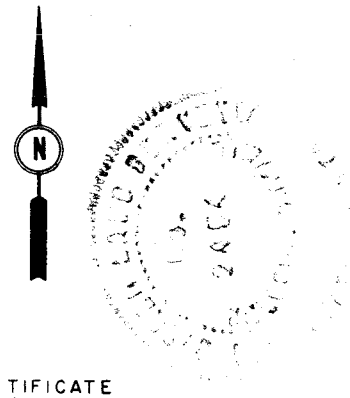
Well location, located as shown in the NE 1/4 NE 1/4 Section 36, T38S, R25E, S.L.B. & M. San Juan County, Utah.

T38S, R25E, S.L.B.& M.



X = Section corners located.

W.O. 22075



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION Nº 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q – 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1"= 1000"	DATE 7/5/74
PARTY NM RR	REFERENCES GLO PLAT
WEATHER WARM	FILE M-11610 MOUNTAIN FUEL SUPPLY CO.

From: Pat Brotherton

Rock Springs, Wyoming

To: T. M. Colson

July 9, 1974

Tentative Plan to Drill
Monty Well No. 1
San Juan County, Utah

This well will be drilled to total depth by the _____ Drilling Company. One work order has been originated for the drilling and completion of the well, namely 22075-2, Drill Monty Well No. 1. This well is located in the NE NE Sec. 36, T. 38 S., R. 25 E., San Juan County, Utah. The well will be drilled to a total depth of 5800 feet to test the Paradox formation. Surface elevation is at 4903 feet.

1. Drill 13-3/4-inch hole to approximately 470 feet KBM.

2. Run and cement approximately 450 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 370 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 1692 pounds of Dowell D43A. Plan on leaving a 20 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 and the guide shoe will be spot welded in the field. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 75 barrels of mud. Capacity of the 10-3/4-inch O.D. casing is 45 barrels.

3. After a WOC time of 6 hours, remove landing joint. Install a NSCo. Type "B" 10-inch 3000 psi 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 WKM Figure B138 (2000 psi WOG, 4000 psi test) valve on one side of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install

adequate preventers. 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 1820 psi.

4. Drill 7-7/8-inch hole to a total depth of 5800 feet or to such depth as may be recommended by the Geological Department. 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 10 foot samples 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. Six drill stem tests are anticipated starting at a depth of approximately 3900 feet. Anticipated tops are as follows:

	Approximate Depth (Feet KBM)
Morrison	Surface
Summerville	50
Entrada	130
Carmel	330
Navajo	420
Kayenta	620
Wingate	950
Chinle	1,420
Shinarump	2,160
Moenkopi	2,250
Cutler	2,370
Honaker Trail	3,950
Paradox	4,620
Upper Ismay Zone	5,080
Lower Ismay Zone	5,380
"B" Marker	5,450
Desert Creek Zone	5,470
Salt	5,590
Total Depth	5,800

If lost circulation problems are encountered, the 7-7/8-inch hole will be reamed out to 9-7/8-inches. 8-5/8-inch O.D. Hydril flush joint casing will be set at approximately 2400 feet.

5. Run a dual induction laterolog (with 2-inch linear, 5-inch logarithmic) integrated sonic gamma ray caliper log from the bottom of the 8-5/8-inch O.D. casing to total depth drilled, and a sidewall neutron log from 3900 feet to total depth.

6. Assuming commercial quantities of gas and/or oil are present, go into hole with a 7-7/8-inch bit and condition hole to run 4-1/2-inch O.D. casing. Pull and lay down drill pipe and drill collars.

7. Run 4-1/2-inch O.D., 11.6-pound, K-55, 8 round thread, ST&C casing as outlined in Item No. I, General Information. Run the casing to bottom and pick up one foot. A Larkin filrite float shoe and float collar will be used as floating equipment. The casing will be cemented with 50-50 Pozmix cement. Cement requirements will be the actual volume as calculated from the caliper log plus 20% excess. Circulate 150 barrels mud prior to beginning cementing operations. Capacity of the 4-1/2-inch O.D. casing is 90 barrels. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water.

8. Immediately after cementing operations are completed, land the 4-1/2-inch O.D. casing with full indicator weight on slips. Cut off 4-1/2-inch O.D. casing and install a 6-inch 3000 psi by 10-inch 3000 psi tubing spool. Pressure test seals to 2000 psi for 5 minutes. The collapse pressure for 4-1/2-inch O.D., 11.6-pound, K-55 casing is 4540 psi. Install a steel plate over tubing spool and release rig.

9. Rig up a contract workover rig. 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.

10. Rig up Schlumberger and run a cement bond and PFC log from plugged back depth to the top of the cement behind the 4-1/2-inch O.D. casing.

11. Run 2-3/8-inch O.D. tubing. Using Halliburton pump truck, pressure test casing and pipe rams to 3000 psi for 15 minutes. The minimum internal yield pressure for 4-1/2-inch O.D., 11.6-pound, K-55 is 5350 psi and the wellhead is 3000 psi working pressure, 6000 psi test. Land tubing on a H-1 hanger. Pressure test blind rams to 3000 psi for 15 minutes. Pull tubing, standing same in derrick.

12. After the above items have been evaluated, a tentative plan to complete the well will be finalized.

GENERAL INFORMATION

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

Description	Approximate Gross Measurement (feet)	Availability
	Surface Casing	
10-3/4-inch O.D., 48-pound, H-40, 8 round thread, ST&C casing	480	Warehouse stock
	Production Casing	
4-1/2-inch O.D., 11.6-pound, K-55, 8 round thread, ST&C casing	6,100	Warehouse stock
	Production Tubing	
2-3/8-inch O.D., 4.6-pound, J-55, seal lock tubing	6,100	Warehouse stock

II. The salt content of the mud will be checked prior to cementing the 4-1/2-inch O.D. casing to determine if a salt saturated cement will be required.

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

July 12, 1974

Mountain Fuel Supply Company
Box 1129
Rock Springs, Wyoming

Re: Well No. Monty No. 1
Sec. 36, T. 38 S, R. 25 E,
San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the topographic exception under Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

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 relative to the above will be greatly appreciated.

The API number assigned to this well is 43-037-30184.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sw
cc: Division of State Lands

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: ML - 25381

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat

7. UNIT AGREEMENT NAME: -

2. NAME OF OPERATOR: Mountain Fuel Supply Company

8. FARM OR LEASE NAME: Monty

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: 1180' FNL, 690' FEL NE NE

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NE NE 36-38S-25E., SLB&M

14. PERMIT NO.: API # 43-037-30184

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 4903'

12. COUNTY OR PARISH: San Juan

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Supplementary history			X
(Other)			☐				

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

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

Depth 4061', drilling.

Spudded July 17, 1974.

Landed 10-3/4" surface casing at 452.75' and cemented with 350 sacks.

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

SIGNED BW Croft TITLE Vice President, Gas Supply Operations DATE Aug. 1, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

INTEROFFICE COMMUNICATION

FROM T. M. Colson

Rock Springs, Wyoming
CITY STATE

TO R. G. Myers

DATE July 16, 1974

SUBJECT Tentative Plan to Drill
Monty Well No. 1
San Juan 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 27, 1974.

TMC/gm
Attachment
cc: J. T. Simon
B. W. Croft
L. A. Hale (6)
A. K. Zuehlsdorff
Geology (2)
D. E. Dallas (4)
J. E. Adney
B. M. Steigleder
E. A. Farmer
U.S.G.S.
State
Paul Zubatch
P. E. Files (4)

P I

CALVIN L. RAMPTON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

OIL & GAS CONSERVATION BOARD

GUY N. CARDON
Chairman

CHARLES R. HENDERSON
ROBERT R. NORMAN
EVART J. JENSEN
JAMES P. COWLEY

8/20/74

Lon Calson – Mtn Fuel

State Monty #1 – San Juan Co. – 36 T38S R25E

T.D. – 5684 –

Set 453' of 10 3/4"

sig hol – 7 7/8" 100 = 30 sx

(1) 5585 – 5485
40 sx – top of Desert Creek

(2) 5050 – 5150 – top of Ismay
40 sx

(3) 4700 – 4800 – top of
Paradox 40 sx

(4) 4200 – 4300 – top of
Honaker Trail 40 sx

(5) 2400 – 2500 ~~top of~~ ~~Honaker Trail~~ Hermosa Cutter – salt water below
fresh wat above

(6) 900 – 1000 – top of
Navajo — Entrada + Navajo — fresh?
Isolated.

(7) base of surface pipe
400 to 500

(8) 10 sx/ sacks – ~~[illegible]~~ lb mud
11.4

Moenkopi – surface
Curtis – 466
Entrada – 554
Carmel – 686
Navajo – 718
Wingate – 1077
Chinle – 1355
Shinarump – 2234
Moenkopi – 2356
Cutter – 2447
Honaker – 4265
Paradox – 4788
U. Ismay 5105 – tested No show
B Marker – 5516
Desert Creek – 5535 – tested No show
Total – 5655

2860 – 3000 = fresh
Water flow in
?? Cutter – moded up
(Patterson #2 = 4625')
#1 = 30 day test

Form OGCC-3

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] DRY [X] Other

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEP-EN [ ] PLUG BACK [ ] DIFF. RESVR. [ ] Other

2. NAME OF OPERATOR: Mountain Fuel Supply Company

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

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*

At surface: 1180' FNL, 690' FEL NE NE

At top prod. interval reported below

At total depth

API # 43-037-30184

14. PERMIT NO. - DATE ISSUED -

5. LEASE DESIGNATION AND SERIAL NO.: ML - 25381

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: -

8. FARM OR LEASE NAME: Monty

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: NE NE 36-38S-25E., SLB&M

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

15. DATE SPUDDED: 7-17-74

16. DATE T.D. REACHED: 8-18-74

17. DATE COMPL. (*Ready to prod.*): 8-22-74

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: KB 4916' GR 4903'

19. ELEV. CASINGHEAD: -

20. TOTAL DEPTH, MD & TVD: 5684'

21. PLUG, BACK T.D., MD & TVD: 0'

22. IF MULTIPLE COMPL., HOW MANY*:

23. INTERVALS DRILLED BY: → ROTARY TOOLS: 0 - 5684' CABLE TOOLS: -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: D & A

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Induction Focused, BHC Acoustilog, Sidewall Neutron

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	452.75	13-3/4	350	0
			7-7/8		

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

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.*): Vented while testing

TEST WITNESSED BY:

35. LIST OF ATTACHMENTS: Logs as above, Well Completion and Well Lithology to 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 R. G. Myers TITLE General Manager, Gas Supply Operations DATE Aug. 28, 1974

*(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.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Log tops:		
Morrison	0'	
Curtis	466	
Entrada	554	
Carmel	686	
Navajo	718	
Kayenta	958	
Wingate	1,077	
Chinle	1,355	
Shinarump	2,234	
Moenkopi	2,356	
Cutler	2,442	
Honaker Trail	4,265	
Paradox	4,788	
Upper Ismay	5,105	
Lower Ismay	5,408	
B Marker	5,516	
Desert Creek	5,535	
Salt	5,665'	

AUG 30 1974

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

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: 1180' FNL, 690' FEL NE NE

5. LEASE DESIGNATION AND SERIAL NO.: ML - 25381

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: -

8. FARM OR LEASE NAME: Monty

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NE NE 36-38S-25E., SLB&M

14. PERMIT NO.: API # 43-037-30184

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB 4916' GR 4903'

12. COUNTY OR PARISH: San Juan

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(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.) *

TD 5684', PBD 0', rig released August 22, 1974, well plugged and abandoned as follows:

Plug No. 1: 5585-5485', 40 sacks
Plug No. 2: 5150-5050', 40 sacks
Plug No. 3: 4800-4700', 40 sacks
Plug No. 4: 4300-4200', 40 sacks
Plug No. 5: 2500-2400', 40 sacks
Plug No. 6: 1000- 900', 40 sacks
Plug No. 7: 500- 400', 40 sacks
Plug No. 8: 12 sacks into top of surface pipe.

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 R. G. Myers TITLE General Manager, Gas Supply Operations DATE Aug. 28, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGCC-1 b

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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: 1180' FNL, 690' FEL NE NE

5. LEASE DESIGNATION AND SERIAL NO.: ML - 25381

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: -

8. FARM OR LEASE NAME: Monty

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: NE NE 36-38S-25E., SLB&M

14. PERMIT NO.: API # 43-037-30184

15. ELEVATIONS (Show whether DF, RT, GR, etc.): KB 4916' GR 4903'

12. COUNTY OR PARISH: San Juan

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	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	X	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Supplementary history			X
(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.)*

TD 5684'.

DST #1: 5125-5151', Upper Ismay, IO ½ hr, ISI 1½ hrs, FO 2 hrs, FSI 4 hrs, opened very weak decrease to dead in 25 minutes, reopened dead, recovered 35' mud.
IHP 3249, IOFP's 27-27, ISIP 54, FOFP's 27-27, FSIP 27, FHP 3223.

DST #2: 5417-5570', Ismay, IO ½ hr, ISI 1½ hrs, FO 2 hrs, FSI 4 hrs, opened very weak, no gas, reopened dead, recovered 85' mud.
IHP 3203, IOFP's 53-53, ISIP 293, FOFP's 53-53, FSIP 479, FHP 2754.

DST #3: 5580-5600', Desert Creek, IO ½ hr, ISI 1½ hrs, FO 2 hrs, FSI 4 hrs, opened very weak, dead in 4 minutes on both openings, no gas, recovered 40' mud.
IHP 3650, IOFP's & FOFP's too small to read, ISIP 266, FSIP 1232, FHP 3611.

DST #4: 5575-5684', Desert Creek, IO ½ hr, ISI 1½ hrs, FO 2 hrs, FSI 245 minutes, opened very weak on both openings, no gas, recovered 315' mud.
IHP 3514, IOFP's 81-35, ISIP 351, FOFP's 189-243, FSIP 459, FHP 3514.

DST #5: Straddle test 5475-5529', Ismay, IO ½ hr, ISI 1½ hrs, FO 2 hrs, FSI 4 hrs, opened weak, no gas, reopened dead, recovered 30' mud.
IHP 3440, IOFP's 53-66, ISIP 93, FOFP's 66-66, FSIP 66, FHP 3427.

Verbal approval was granted on 8-20-74 during a telephone conversation between Mr. Burchell and Mr. Colson to plug and abandon the subject well by laying the following

- CONTINUED ON REVERSE -

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

SIGNED R. G. Myers TITLE General Manager, Gas Supply Operations DATE Aug. 28, 1974

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

AUG 30 1974

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

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 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

the following plugs:

Plug No. 1: 5585-5485', 40 sacks
Plug No. 2: 5150-5050', 40 sacks
Plug No. 3: 4800-4700', 40 sacks
Plug No. 4: 4300-4200', 40 sacks
Plug No. 5: 2500-2400', 40 sacks
Plug No. 6: 1000- 900', 40 sacks
Plug No. 7: 500- 400', 40 sacks
Plug No. 8: 10 sacks into top of surface pipe.

PI PMB

FORM OGC-8-X
File in Quadruplicate

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Monty No. 1

Operator Mountain Fuel Supply Company

Address 180 East First South, Salt Lake City, Utah

Contractor Loffland

Address

Location NE 1/4, NE 1/4; Sec. 36 ; T. 38 S.; R. 25 E:, San Juan County.

Water Sands:

	Depth: From - To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1.	2800-3300'	3-4 gal/min	Salty
2.	Note: Water flowed from annulus during a DST of zone from 5417-5570'. Estimated depth of water zone is based on calculations from recorded hydrostatic pressures.		
3.			
4.			
5.			

(Continue on Reverse Side of Necessary)

Formation Tops:

Morrison - Surface, Curtis 554', Carmel 686', Navajo 718', Kayenta 958', Wingate 1077', Chinle 1355', Shinarump 2234', Moenkopi 2356', Cutler 2442', Honaker Trail 4265', Paradox 4788', Ismay 5105', Desert Creek 5535', Salt 5665'.

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.
(c) If a water quality 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	LAB NO.	13591
		REPORT NO.	
OPERATOR	Mountain Fuel Supply Company	LOCATION	NE NE 26-38S-25E
WELL NO.	Monty No. 1	FORMATION	
FIELD	Wildcat	INTERVAL	
COUNTY	San Juan	SAMPLE FROM	DST No. 2 (Annulus)
STATE	Utah	DATE	August 28, 1974

REMARKS & CONCLUSIONS: Muddy water, light brown colored filtrate.

Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	9531	414.58	Sulfate	1100	22.88
Potassium	181	4.63	Chloride	18000	507.60
Lithium			Carbonate	-	-
Calcium	1868	93.21	Bicarbonate	488	8.00
Magnesium	317	26.06	Hydroxide	-	-
Iron	Present	-	Hydrogen sulfide	-	-
Total Cations		538.48	Total Anions		538.48

Total dissolved solids, mg/1	31237
NaCl equivalent, mg/1	30802
Observed pH	7.0

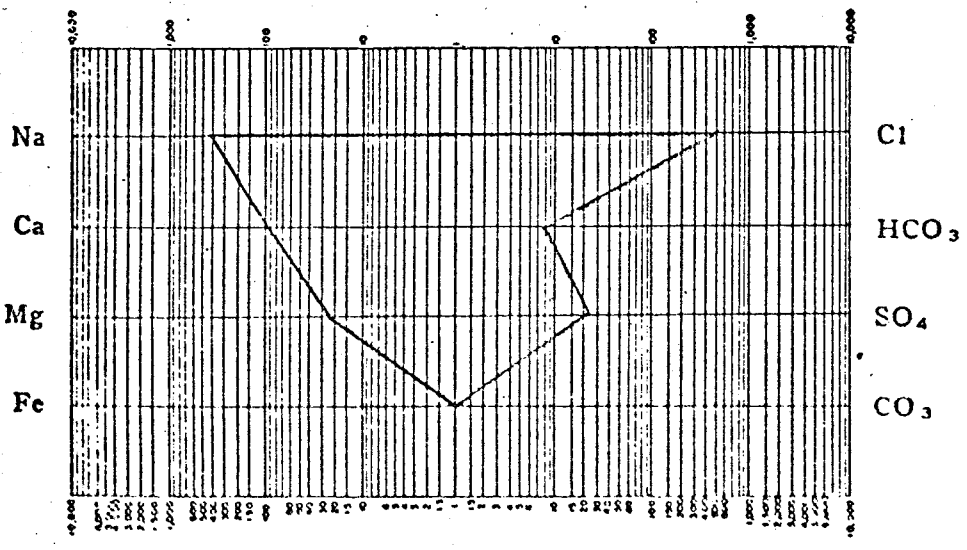
Specific resistance @ 68° F.:

Observed	0.235	ohm-meters
Calculated	0.235	ohm-meters

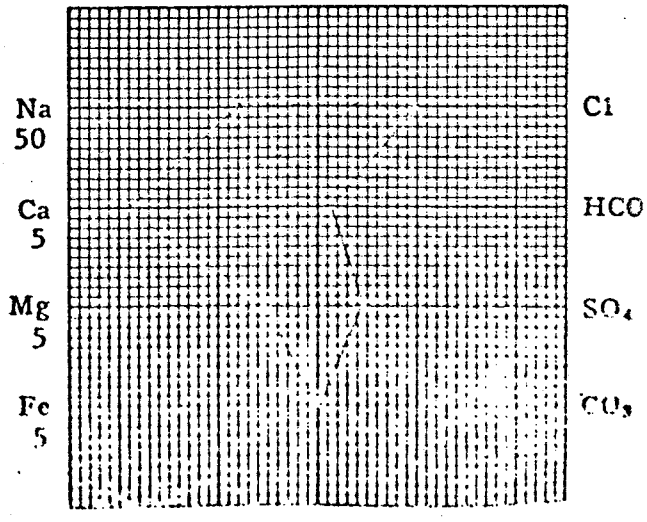
WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



STANDARD



(Na value in above graphs includes Na, K, and Li)

NOTE: Mg/1=Milligrams per liter. Meq/1=Milligram equivalents per liter

Sodium chloride equivalent=by Dunlap & Hawthorne calculation from conductivity

COMPLETION REPORT

Well: Monty Well No. 1 Date: July 8, 1975

Area: Monty Lease No: ML-25381

[XX] New Field Wildcat [ ] Development Well [ ] Shallower Pool Test

[ ] New Pool Wildcat [ ] Extension [ ] Deeper Pool Test

Location: 1180 feet from north line, 690 feet from east line

NE ¼ NE ¼

Section 36, Township 38S, Range 25E

County: San Juan State: Utah

Operator: Mountain Fuel Supply Co.

Elevation: KB 4903 Gr 4913 Total Depth: Driller 5684 Log 5682

Drilling Commenced: July 17, 1974 Drilling Completed: August 19, 1974

Rig Released: August 22, 1974 Well Completed: August 22, 1974

Sample Tops: (unadjusted) Log Tops:

(S E E S E P A R A T E S H E E T)

Sample Cuttings: 30' from 1100 to 2000'
10' from 2000 to 5684'
Sent to AmStrat, Denver, Colo.

Status: Dry & Abandoned

Producing Formation: None

Perforations: None

Stimulation: None

Production: None

Plug Back Depth: Surface

Plugs:
5585-5485 4800-4700 2500-2400 500-400
5150-5050 4300-4200 1000-900 12 sx. plug into top of surface pipe

Hole Size:
13-3/4" at 505'; 7-7/8" at 5684'

Casing/Tubing:
10-3/4" at 452.75 w/350 sx.

Logging - Mud:
Core Lab
Mechanical: Dresser Atlas

Contractor:
Loffland Brothers

Completion Report Prepared by:
E. G. Mickel

Remarks:

COMPLETION REPORT (cont.)

Well: Monty Well No. 1

Area: Monty

Cored Intervals (recovery): None

Tabulation of Drill Stem Tests:

No.	Interval	IHP	IFP (min.)	ISIP (min.)	FFP (min.)	FSIP (min.)	FHP	Samples Caught	Remarks
1.	5125-5151	3257	31-31 (30)	50 (90)	35-35 (120)	35 (225)	3218	None	NGTS Recovered 35' mud
2.	5417-5570	3190	32-44 (30)	270 (90)	61-76 (120)	484 (225)	2726	None	NGTS Recovered 90' mud
3.	5580-5600	3562	17-17 (30)	288 (90)	9-17 (120)	1228 (240)	3530	None	NGTS Recovered 55' mud
4.	5575-5684	3587	96-141 (30)	347 (90)	195-243(120)	476 (245)	3466	None	NGTS Recovered 315' mud
5.	5475-5529 (Straddle Test)	3431	21-43 (30)	68 (90)	53-51 (120)	64 (240)	3408	None	NGTS Recovered 30' mud

FORMATION TOPS

Formation	Sample	Electric Log
Morrison	Surface	Surface
Curtis	--	466
Entrada	--	554
Carmel	--	686
Navajo	730	718
Kayenta	998	958
Wingate	1076	1077
Chinle	1324	1355
Shinarump	2196	2234
Moenkopi	2362	2356
Cutler	2442	2442
Honaker Trail	4200	4265
Paradox	4670	4788
Upper Ismay	5134	5105
Lower Ismay	5436	5408
"B" Zone	5520	5516
Desert Creek	5545	5535
Salt	5663	5665

FIELD Monty STATE Utah COUNTY San Juan SEC. 36 T. 38S R. 25E

COMPANY Mountain Fuel Supply FARM Monty WELL NO. 1

LOCATION 1180' FNL; 690' FEL ELEV. Gr. 4903'; KB 4913'

DRILLING COMMENCED July 17 1974 COMPLETED August 19, 1974

RIG RELEASED August 22, 1974 TOTAL DEPTH 5684'

CASING RECORD 10-3/4" at 452.75' with 350 sx.

TUBING RECORD

PERFORATIONS

I. P. GAS OIL

SANDS

SHUT-IN SURFACE PRESSURES

REMARKS Dry & Abandoned

	FROM	TO
Sandstone - white, clear, light pink, light orange, firm to hard, siliceous cement	1100	1140
Sandstone - light orange, orange, very fine grained, siliceous cement	1140	1175
Sandstone - light orange, buff, fine to very fine grained hard, siliceous cement	1175	1225
Sandstone - light orange, buff, fine to very fine grained, firm to hard, friable siliceous cement, slight trace gray shale.	1225	1270
Sandstone - light orange, buff, fine to very fine grained firm to hard, friable, siliceous cement, slight trace gray shale	1270	1310
Siltstone - red, firm, sandy in part, dense, slightly calcareous	1310	1335
Siltstone - red, red brown, firm, sandy in part, dense, slightly calcareous	1335	1365
Siltstone - red, red brown, firm, dense, sandy in part, slightly calcareous	1365	1415
Sandstone - light orange, buff, fine to very fine grained hard, friable, siliceous cement	1415	1435
Siltstone - light orange, red, red brown, firm, dense, sandy in part, slightly calcareous	1435	1455
Sandstone - light orange, buff, fine to very fine grained, hard, friable, siliceous cement	1455	1470
Siltstone - red, red brown, firm, dense, sandy in part, slightly calcareous	1470	1480
Sandstone - white, clear, fine to medium grained, silty in part	1480	1490
Shale - red orange, orange, soft, dense, very silty	1490	1500
Sandstone - white, red orange, firm, fine to medium grained, silty in part	1500	1520
Siltstone - red, red orange, firm dense, sandy in part, slightly calcareous	1520	1540
Sandstone - white, red orange, firm, fine to medium grained, silty in part	1540	1550

FIELD Monty SEC. 36 T. 3S R. 25E PAGE 2

FARM Monty WELL NO. 1

COMPANY Mountain Fuel Supply Co.

	FROM	TO
Siltstone - red, red orange, firm, dense, sandy	1550	1560
Sandstone - white, red orange, fine to medium grained,	1560	1570
Siltstone - red, red orange, firm, dense, sandy	1570	1580
Sandstone - red orange, buff, fine to very fine grained, silty in part, siliceous cement	1580	1595
Siltstone - red, red orange, firm dense, sandy	1595	1610
Shale - red, red orange, soft, dense, silty	1610	1635
Siltstone - red, red orange, firm, dense, sandy in part	1635	1670
Sandstone - light orange, white, fine to medium grained, silty, siliceous cement	1670	1695
Siltstone - red, red brown, orange, buff, firm, dense, sandy in part	1695	1710
Sandstone - red, red brown, firm, fine to very fine grained, siliceous cement	1710	1740
Siltstone - red, red brown, firm, dense, sandy in part	1740	1765
Sandstone - orange, red orange, firm, fine to very fine grained, siliceous cement	1765	1790
Siltstone - red, red orange, firm, dense, sandy in part	1790	1815
Sandstone - red orange, white, firm to hard, fine to very fine grained, siliceous cement	1815	1830
Siltstone - red orange, firm, dense, sandy in part	1830	1835
Sandstone - red orange, orange, firm to hard, fine to very fine grained, siliceous cement	1835	1875
Siltstone - red, red orange, firm, dense, sandy in part	1875	1905
Sandstone - red, red orange, buff, firm, fine to very fine grained, siliceous cement	1905	1930
Siltstone - red, red orange, firm, dense, sandy in part	1930	1975
Siltstone - red, red orange, firm, dense, sandy	1975	2005
Siltstone - red orange, firm, dense, sandy	2005	2020
Shale - red, red brown, soft, dense, silty in part	2020	2030
Siltstone - red orange, firm, dense, silty in part	2030	2050
Shale - red, red orange, soft to firm, dense, occasional grading to siltstone	2050	2065
Siltstone - red, red orange, firm, dense, silty in part	2065	2080
Shale - red, red brown, soft to firm, dense, occasional grading to siltstone	2080	2100
Siltstone - red, red orange, firm, dense, sandy in part	2100	2120
Shale - red, red brown, firm, dense, silty in part	2120	2170
Siltstone - light orange, red, firm, dense, occasionally sandy, grading to silty shale	2170	2205
Shale - light orange, red, firm, dense, silty, calcareous	2205	2225
Sandstone - tan, light brown, light red, fine-grained, hard, friable, micaceous, arkosic	2225	2240
Shale - light orange, red, firm, dense, silty	2240	2245
Sandstone - tan, light brown, fine-grained, hard, friable, micaceous, arkosic	2245	2250
Shale - light orange, red, firm, dense, silty	2250	2275
Sandstone - white, clear, frosted, medium to coarse grained, hard, abundant loose quarts grains	2275	2300
Limestone - white, light gray, light tan, hard, dense, siliceous, bulky	2300	2310
Sandstone - white, clear, frosted, medium to coarse grained, hard, abundant loose quartz grains	2310	2320
Shale - light green, light gray, soft to firm, subwaxy, silty	2320	2335
Sandstone - white, clear, frosted, unconsolidated, coarse grained, quartz grains	2335	2375
Shale - light gray, firm, silty, sandy in part, light green, lavender, soft, subwaxy, dense	2375	2400
Siltstone - red, red brown, firm, dense, slightly calcareous	2400	2420
Shale - light gray, firm, silty, sandy in part, light green, lavender, soft, subwaxy, dense	2420	2440
Siltstone - red brown, firm, dense, sandy in part, slightly calcareous	2440	2445
Shale - light gray, firm, silty, sandy, light green, lavender, soft, subwaxy, dense	2445	2450
Siltstone - red, red brown, firm, dense, sandy in part, slightly calcareous	2450	2460

FARM Monty WELL NO. 1

COMPANY Mountain Fuel Supply Co.

	FROM	TO
Shale - green, light green, gray, soft to firm, dense, silty,	2460	2480
Siltstone - red, red brown, firm, sandy in part	2480	2500
Shale - light green, purple, gray, firm, dense, silty, sandy, slightly calcareous	2500	2525
Siltstone - red, red brown, firm to hard, sandy, slightly calcareous	2525	2550
Shale - light green, purple, gray, firm, dense, silty, sandy, slightly calcareous	2550	2565
Sandstone - white, clear, mostly medium grained, unconsolidated quartz grains	2565	2570
Siltstone - red, brown, firm, dense, sandy, slightly calcareous	2570	2580
Shale - light green, purple, gray, firm, dense, silty,	2580	2600
Sandstone - red, red brown, firm, dense, fine to medium grained, micaceous, arkosic, calcareous	2600	2615
Shale - light green, firm, dense, silty, sandy in part	2615	2635
Siltstone - red, red brown, firm, dense, slightly calcareous	2635	2660
Shale - light green, gray, firm, dense, sandy in part, slightly calcareous	2660	2670
Sandstone - red, red brown, fine to medium grained, silty, micaceous, arkosic	2670	2695
Siltstone - red, red brown, firm, dense, slightly calcareous	2695	2715
Shale - red, red orange, sandy in part, calcareous	2715	2725
Sandstone - red, red brown, firm, dense, fine to medium grained, silty, micaceous, arkosic	2725	2730
Shale - red, red orange, sandy in part, calcareous	2730	2745
Sandstone - white, tan, clear, fine to very fine grained, micaceous, arkosic, calcareous	2745	2775
Siltstone - red orange, white, firm to hard, sandy, micaceous	2775	2810
Shale - red orange, firm, silty, dense, slightly calcareous, subwaxy	2810	2835
Sandstone - white to clear, tan, fine to very fine grained, micaceous, arkosic, calcareous	2835	2870
Siltstone - red, red brown, firm, dense, sandy in part	2870	2880
Shale - red, red brown, firm, dense, silty, sandy	2880	2890
Sandstone - red, red brown, fine to medium grained, arkosic, micaceous	2890	2900
Siltstone - red, red brown, firm, dense, sandy in part	2900	2910
Shale - red, red brown, firm, dense, silty	2910	2920
Limestone - pink, white, light gray, hard, dense, siliceous, non-crystalline	2920	2925
Siltstone - red, red brown, firm, dense, calcareous	2925	2935
Limestone - pink, white, light gray, hard, dense, siliceous, non-crystalline	2935	2940
Siltstone - red, red brown, firm, dense, calcareous	2940	2950
Sandstone - clear, red brown, pink, fine to medium	2950	2970
Siltstone - red, red brown, firm, dense, calcareous, micaceous	2970	2985
Sandstone - clear, red, brown, pink, fine to medium grained, firm, friable, calcareous	2985	2990
Siltstone - red brown, firm, dense, calcareous, micaceous	2990	3025
Shale - red, red brown, firm, dense, calcareous	3025	3030
Siltstone - red brown, firm, dense, calcareous, micaceous	3030	3035
Sandstone - White, clear, red brown, pink, fine to medium grained, firm, friable, calcareous	3035	3040
Siltstone - red, red brown, firm, dense, calcareous	3040	3055
Sandstone - red, red brown, fine to medium grained, micaceous, arkosic	3055	3065
Siltstone - red brown, firm, dense, calcareous	3065	3075
Shale - red, red orange, firm, dense, calcareous	3075	3080

FARM Monty WELL NO. 1

COMPANY Mountain Fuel Supply Co.

	FROM	TO
Siltstone - red brown, firm, dense, calcareous	3080	3090
Shale - red, red brown, firm, dense, calcareous	3090	3095
Siltstone - red brown, firm, dense, calcareous	3095	3120
Sandstone - red, red brown, firm, fine to very fine grained, micaceous, arkosic, calcareous	3120	3140
Siltstone - red, red brown, firm, dense, micaceous calcareous	3140	3155
Sandstone - red, red brown, fine to very fine grained, micaceous, arkosic, calcareous	3155	3165
Siltstone - red brown, firm, dense, micaceous, calcareous	3165	3170
Shale - light green, red orange, firm, dense, pyric	3170	3180
Siltstone - orange, red orange, firm, micaceous, calcareous	3180	3190
Shale - light green, orange, firm, dense, pyric	3190	3195
Siltstone - orange, red orange, firm, micaceous, calcareous	3195	3205
Sandstone - white, clear, pink, fine grained, firm, hard, friable micaceous calcareous	3205	3215
Shale - red orange, firm, dense, pyric	3215	3230
Siltstone - red orange, orange, firm to hard, micaceous, calcareous	3230	3240
Shale - red orange, light green, soft to firm, silty, sub-waxy	3240	3250
Siltstone - red, red brown, firm to hard, micaceous, cal-careous	3250	3275
Shale - red orange, orange, light green, soft to firm, dense, subwaxy	3275	3295
Siltstone - red, red brown, form to hard, micaceous, cal-careous	3295	3310
Shale - red, red brown, firm, dense, micaceous	3310	3325
Siltstone - red, red brown, firm to hard, micaceous, calcareous	3325	3335
Shale - light green, soft, dense, subwaxy	3335	3340
Siltstone - red, red brown, firm, slightly calcareous	3340	3345
Shale - light green, soft, dense, subwaxy	3345	3360
Siltstone - red, red orange, firm, micaceous, calcareous	3360	3375
Sandstone - red, red brown, fine to medium-grained, mica-ceous, silty	3375	3395
Siltstone - red, red orange, firm, micaceous, calcareous	3395	3405
Shale - light green, soft, subwaxy, dense	3405	3410
Siltstone - red orange, firm, dense, micaceous, calcareous	3410	3440
Shale - orange, red orange, firm, dense, sandy, micaceous, calcareous	3440	3465
Siltstone - red orange, firm, dense, micaceous, calcareous	3465	3480
Shale - red, red orange, firm, dense, sandy, micaceous, calcareous	3480	3495
Limestone - dark gray, white, buff, hard, dense, non-crystalline, siliceous	3495	3510
Sandstone - white, clear, fine to very fine grained, micaceous, silty	3510	3520
Siltstone - red, red brown, firm, dense, calcareous	3520	3525
Shale - light green, firm, dense, slightly calcareous	3525	3530
Siltstone - red, red brown, firm, dense, calcareous	3530	3540
Shale - light green, firm, dense, slightly calcareous	3540	3555
Siltstone - red, red orange, firm to hard, sandy in part, calcareous	3555	3560
Sandstone - red, red brown, soft, firm, fine grained, very silty, micaceous, calcareous	3560	3570
Shale - red, red orange, buff, soft to firm, calcareous	3570	3575
Sandstone - red, red brown, firm, fine grained, very silty, micaceous, calcareous	3575	3600
Shale - red, red brown, firm, dense, calcareous	3600	3610
Siltstone - red, red brown, firm, micaceous, calcareous	3610	3620
Limestone - light pink, hard, dense, non-crystalline, siliceous	3620	3630
Siltstone - red, red brown, firm, micaceous, calcareous	3630	3645
Shale - red, red brown, firm, dense, silty, calcareous	3645	3650
Siltstone - red, red brown, white, hard, sandy, micaceous	3650	3655
Shale - red, red brown, firm, dense, silty, calcareous	3655	3660
Siltstone - red, red brown, white, hard, sandy, micaceous	3660	3665
Shale - red, red brown, firm, dense, silty, calcareous	3665	3680

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FARM Monty WELL NO. 1

COMPANY Mountain Fuel Supply Co.

	FROM	TO
Sandstone - white, light green, very fine grained, micaceous, glauconitic, calcareous	3680	3695
Shale - red, red orange, light green, firm, dense, silty calcareous	3695	3710
Limestone - white, soft, silty, chalky, light gray, hard,	3710	3720
Siltstone - white, red orange, hard, sandy, micaceous	3720	3735
Sandstone - white, clear, hard, firm, fine to very fine grained, micaceous, calcareous	3735	3750
Siltstone - red orange, firm to hard, micaceous, silty	3750	3760
Sandstone - white, clear, fine grained, hard, firm, micaceous, calcareous	3760	3770
Siltstone - red brown, firm to hard, micaceous, silty	3770	3775
Shale - light green, firm, dense, subwaxy	3775	3780
Sandstone - white, clear, fine grained, hard, firm, micaceous, calcareous	3780	3790
Shale - red brown, light green, firm, dense, subwaxy	3790	3800
Siltstone - red brown, firm to hard, micaceous, silty	3800	3805
Sandstone - red brown, fine grained, micaceous, silty, calcareous	3805	3815
Siltstone - red, red brown, firm, dense, occasionally grading to silty shale	3815	3835
Shale - red, red brown, firm, dense, silty, calcareous	3835	3850
Siltstone - red, brown, firm, dense, occasionally grading to silty shale	3850	3860
Shale - gray, firm, very silty, calcareous	3860	3865
Siltstone - red brown, firm, dense, occasionally grading to silty shale	3865	3875
Shale - red, red orange, firm to hard, dense, micaceous	3875	3885
Siltstone - red brown, firm, dense, occasionally grading to silty shale	3885	3895
Shale - red, red brown, green, light green, firm to hard, dense, micaceous	3895	3905
Siltstone - red, red brown, firm, dense, sandy in part	3905	3915
Shale - red, red brown, firm, dense, silty, slightly calcareous	3915	3925
Siltstone - red, red brown firm, dense, sandy in part	3925	3950
Sandstone - white, red, red brown, firm, fine to medium grained, very silty, micaceous, arkosic	3950	3960
Shale - red orange, firm, dense, silty, slightly calcareous	3960	3970
Sandstone - white, red red orange, firm fine to medium grained, very silty, micaceous, arkosic	3970	3975
Siltstone - red brown, firm, dense, calcareous	3975	3980
Limestone - pink, gray, dark gray, hard, dense, non-crystalline, silty	3980	3990
Siltstone - red brown, firm, dense, calcareous	3990	4000
Shale - red brown, firm, dense, micaceous, calcareous	4000	4010
Siltstone - red, light brown, firm, very micaceous, calcareous	4010	4015
Sandstone - white, red orange, firm, fine to medium grained, micaceous, calcareous, arkosic	4015	4030
Siltstone - red brown, firm, very micaceous, calcareous	4030	4050
Limestone - gray, dark gray, firm to hard, dense, non-crystalline	4050	4060
Siltstone - white, red brown, gray, firm, micaceous calcareous	4060	4070
Limestone - gray, dark gray, firm to hard, dense, non-crystalline	4070	4075
Siltstone - white, red brown, gray, firm, micaceous calcareous	4075	4080
Limestone - gray, dark gray, hard, dense, non-crystalline	4080	4095
Siltstone - white, gray, brown, firm, micaceous, calcareous	4095	4110
Shale - red brown, firm, dense, micaceous, calcareous	4110	4125
Siltstone - white, gray, brown, firm, micaceous, calcareous	4125	4140
Sandstone - white, clear, fine to very fine grained, micaceous, calcareous	4140	4160

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FARM Monty WELL NO. 1

COMPANY Mountain Fuel Supply Co.

	FROM	TO
Siltstone - white, gray, light brown, firm, very micaceous, calcareous	4160	4175
Limestone - white, tan, buff, firm to hard, dense siliceous	4175	4180
Siltstone - white, gray, light brown, firm, very micaceous, calcareous	4180	4185
Limestone - white, tan, buff, firm to hard, dense, siliceous	4185	4190
Shale - white, gray, light gray, firm, dense, calcareous	4190	4200
Limestone - white, tan, buff, firm to hard, dense, siliceous	4200	4210
Siltstone - white, gray, firm, very micaceous	4210	4220
Sandstone - white, clear, brown, fine to very fine grained,	4220	4230
Shale - gray, red brown, firm, dense, calcareous	4230	4240
Siltstone - white, gray, red, firm, very micaceous	4240	4265
Shale - red brown, firm, dense, slightly calcareous	4265	4285
Limestone - white, gray, green, hard, dense, silty, non crystalline	4285	4305
Siltstone - gray, hard, micaceous, calcareous	4305	4315
Limestone - white, light gray, firm, dense, silty, non-crystalline	4315	4325
Shale - red, red brown, firm, dense, calcareous	4325	4330
Limestone - white, light gray, firm, dense, silty, non-crystalline	4330	4335
Shale - red, red brown, firm, dense, calcareous	4335	4345
Limestone - white, ten, gray, soft to hard, dense, non-crystalline, fossilliferous, silty	4345	4360
Siltstone - gray, dark gray, hard, dense, sandy in part, slightly calcareous	4360	4380
Limestone - white, tan, gray, soft-to-hard, dense, micro-crystalline in part, fossiliferous, silty	4380	4395
Siltstone - red brown, gray, hard, dense, sandy in part, slightly calcareous	4395	4405
Shale - red, red brown, firm, dense, calcareous	4405	4415
Siltstone - white, gray, firm to soft, sandy in part, very calcareous	4415	4425
Shale - red, red brown, firm, dense, calcareous	4425	4435
Limestone - white, tan, gray, soft to hard, dense, micro-crystalline in part, fossiliferous silty	4435	4440
Shale - red, red brown, firm, dense, calcareous	4440	4445
Limestone - white, gray, buff, firm, hard, dense, silty, micro-crystalline in part, fossilliferous, siliceous	4445	4455
Siltstone - white, gray, firm to hard, very calcareous, micaceous	4455	4465
Limestone - white, gray, buff, firm, hard, dense, silty, micro-crystalline in part, fossilliferous, siliceous	4465	4470
Siltstone - white, gray, firm to hard, very calcareous, micaceous	4470	4485
Limestone - gray, light gray, white, firm to hard, very silty, heavy trace of chert	4485	4500
Siltstone - white, gray, light gray, firm to hard, grading to silty limestone	4500	4510
Limestone - white, gray, light gray, tan, dense, siliceous, fossilliferous	4510	4520
Sandstone - white, clear, firm, very fine grained, micaceous, calcareous	4520	4530
Limestone - white, gray, dark gray, dense, siliceous, fossiliferous	4530	4545
Sandstone - white, clear, firm, very fine grained, micaceous, calcareous	4545	4555
Siltstone - red orange, red brown, firm, micaceous, slightly calcareous	4555	4570
Limestone - light gray, gray, dense, siliceous, fossiliferous	4570	4580
Siltstone - red orange, firm, micaceous, slightly calcareous	4580	4590
Limestone - gray, dark gray, hard, dense, micro-crystalline in part, silty	4590	4595
Siltstone - brown, firm, dense, micaceous, calcareous	4594	4605
Limestone - gray, dark gray, hard, dense, micro-crystalline in part, silty	4605	4610

FARM Monty WELL NO. 1

COMPANY ~~Mountain Fuel Supply Co.~~

	FROM	TO
Limestone - gray, dark gray, hard, dense, micro-crystalline silty	4615	4625
Siltstone - white, light gray, gray, firm to hard, dense, very calcareous	4625	4635
Limestone - white, light gray, gray, hard, dense, siliceous, crystalline in part, fossiliferous	4635	4645
Siltstone - white, gray, firm to hard, dense, very calcareous	4645	4650
Sandstone - white, clear, firm, very fine grained, micaceous, calcareous	4650	4660
Siltstone - white, gray, firm, dense, calcareous	4660	4675
Shale - brown, firm, dense, very silty	4675	4685
Siltstone - white, gray, firm, dense, calcareous	4685	4695
Limestone - white, tan, gray, very silty, grading to calcareous siltstone	4695	4705
Siltstone - gray, hard, very calcareous	4705	4715
Limestone - white, tan, very silty, grading to calcareous siltstone	4715	4730
Sandstone - white, light green, red brown, firm, micaceous, arkosic, calcareous	4730	4740
Siltstone - white, tan, hard, very calcareous	4740	4750
Shale - light brown, brown, gray, dense, soft to firm, dense, very silty	4750	4760
Siltstone - white, tan, hard, very calcareous	4760	4775
Limestone - white, gray, hard, dense, siliceous, crystalline in part	4775	4790
Siltstone - white, light gray, soft to firm, dense, slightly calcareous	4790	4815
Limestone - gray, dark gray, hard, dense, noncrystalline, occasionally grading to calcareous siltstone	4815	4825
Siltstone - white, light gray, soft to firm, dense, slightly calcareous	4825	4840
Limestone - gray, dark gray, hard, dense, non-crystalline, occasionally grading to calcareous siltstone	4840	4855
Siltstone - white, light gray, soft to firm, dense, slightly calcareous	4855	4865
Limestone - gray, dark gray, hard, dense, non-crystalline, occasionally grading to calcareous siltstone	4865	4875
Siltstone - light gray, soft to firm, dense, slightly calcareous	4875	4890
Limestone - gray, dark gray, hard, dense, non-crystalline, occasional grading to calcareous siltstone	4890	4900
Siltstone - gray, dark gray, hard, dense, very calcareous	4900	4920
Limestone - gray, dark gray, tan, white, hard, dense, crystalline in part, siliceous, fossiliferous	4920	4945
Limestone - gray, dark gray, hard,, dense, crystalline in part, siliceous, fossiliferous	4945	4950
Limestone - light gray, dark gray, tan, hard, non-crystalline, siliceous, fossiliferous	4950	4955
Shale - gray, dark gray, firm, dense, slightly calcareous	4955	4960
Limestone - light gray, dark gray, hard, silty in part, non-crystalline, siliceous, fossiliferous	4960	4970
Shale - black, hard, dense, slightly calcareous, gas, visibly bubbling out	4970	4980
Limestone - white, tan, light gray, gray, firm to hard, dense, mostly crystalline, fossiliferous	4980	4990
Siltstone - gray, dark gray, very calcareous, grading to silty limestone	4990	5000
Limestone - white, tan, light gray, gray, hard,crystalline in part, fossiliferous	5000	5005
Siltstone - gray, dark gray, very calcareous, grading to silty limestone	5005	5010
Limestone - light tan, gray, dark gray, hard, dense, crystalline in part, siliceous, fossiliferous in part	5010	5025
Siltstone - gray, dark gray, white, firm to soft, very calcareous	5025	5035
Limestone - gray, dark gray, hard, dense, non-crystalline, very fossiliferous, occasional grading to calcareous siltstone	5035	5045

FARM Monty WELL NO. 1

COMPANY Mountain Fuel Supply Co.

	FROM	TO
Siltstone - gray, dark gray, white, firm to soft, very calcareous	5045	5050
Limestone - gray, dark gray, hard, dense, non-crystalline, very fossiliferous, occasional grading to calcareous siltstone	5050	5055
Siltstone - gray, dark gray, firm, very calcareous	5055	5060
Limestone - gray, dark gray, hard, dense, very silty occasional fossils	5060	5070
Siltstone - gray, dark gray, firm, very calcareous	5070	5075
Limestone - white, tan, light gray, light brown, hard, siliceous, crystalline to non-crystalline, grading to siltstone	5075	5085
Siltstone - gray, brown, very calcareous	5085	5090
Limestone - white, tan, gray, hard, siliceous, crystalline to non-crystalline, grading to siltstone	5090	5105
Siltstone - gray, dark gray, brown, hard, dense, very calcareous, occasional grading to silty limestone	5105	5115
Limestone - tan, gray, dark gray, hard, dense, crystalline in part, siliceous, siltstone stringers	5115	5130
Siltstone - gray, brown, hard, dense, very calcareous, occasionally grading to silty limestone	5130	5140
Limestone - white, tan, light brown, silty, non-crystalline, grading to calcerous siltstone, heavy trace of chert, light brown to light gray, transparent	5140	5160
Siltstone - gray, dark gray, hard, dense, very calcareous	5160	5165
Limestone - white, tan, light brown, hard, micro-crystalline in part, silty in part	5165	5175
Siltstone - gray, dark gray, hard, dense, very calcareous	5175	5185
Limestone - white, gray, dark gray, hard, non-crystalline, silty in part	5185	5195
Siltstone - white, light gray, soft to firm, calcareous	5195	5205
Limestone - white, light gray, hard, dense, non-crystalline, grading to calcareous siltstone, abundant clear, light gray, light brown chert	5205	5225
Shale - dark gray, black, firm, dense, calcareous trace pyrite	5225	5245
Siltstone - hard, dense, very calcareous, white, light gray	5245	5250
Limestone - white, tan, hard, dense, micro-crystalline, fossiliferous	5250	5255
Siltstone - hard, dense, very calcareous, white, light gray	5255	5260
Limestone - white, tan, mottled, hard, dense, micro-	5260	5265
Siltstone - hard, dense, shaly in part	5265	5275
Shale - black, firm, dense, silty in part, slightly calcareous	5275	5285
Siltstone - gray, dark gray, hard, dense, shaly in part, calcareous	5285	5295
Limestone - gray, dark gray, hard, dense, non-crystalline, very silty	5295	5305
Anhydrite - white, clear, very soft, massive, non-crystalline	5305	5315
Siltstone - white, gray, dark gray, firm, very calcareous, limestone straingers	5315	5340
Anhydrite - white, clear, very soft, massive, mostly non-crystalline	5340	5355
Shale - black, dary gray, soft, calcareous, silty in part	5355	5365
Anhydrite - white, clear, light orange, very soft, massive, mostly non-crystalline	5365	5375
Shale - black, soft, calcareous, sooty	5375	5390
Anhydrite - white, clear, soft, massive, mostly non-crystalline, trace of dolomite stringers	5390	5410
Limestone - tan, light brown, gray, hard, silty, dolomite in part	5410	5415
Shale - black, firm to soft, calcareous, sooty	5415	5425
Limestone - tan, light brown, hard, silty, very dolomitic	5425	5430
Shale - black, soft, calcareous, sooty	5430	5440
Limestone - white, soft to hard, dirty, earthy, dolomitic in part	5440	5445

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FARM Monty WELL NO. 1

COMPANY Mountain Fuel Supply Co.

	FROM	TO
Shale - black, dark gray, soft, calcareous, sooty	5445	5450
Limestone - white, gray, dark gray, shaly, dolomitic, non-crystalline	5450	5455
Shale - black, dary gray, soft, silty in part, calcareous	5455	5465
Limestone - dark gray, gray, firm, dolomitic in part, occasionally crystalline	5465	5470
Shale - black, dark gray, soft, silty in part, calcareous	5470	5475
Anhydrite - white, clear, hard, mostly massive	5475	5480
Siltstone - gray, dary gray, shaly, hard, calcareous	5480	5490
Anhydrite - white, clear, hard, mostly massive	5490	5495
Siltstone - gray, dark gray, shaly, hard, calcareous	5495	5500
Anhydrite - white, clear, soft to hard, mostly non-crystalline, massive	5500	5505
Shale - black, soft, calcareous	5505	5510
Dolomite - brown, hard, silty, calcareous in part, non-micro crystalline	5510	5515
Shale - black, dary gray, firm to soft, dense, calcareou-	5515	5530
Dolomite - brown, hard, silty, micro-crystalline in part, calcareous	5530	5535
Shale - black, soft, dense, calcareous	5535	5545
Dolomite - brown, dary gray, hard, silty in part, micro-crystalline	5545	5550
Anhydrite - white, clear, soft, hard, occasionally crystal-line	5550	5560
Dolomite - brown, gray, hard, dense, silty, micro-crystalline in part	5560	5565
Limestone - brown, non-crystalline, dolomitic	5565	5570
Shale - black, soft, dense, calcareous	5570	5580
Dolomite - brown, light gray, hard, dense, silty, micro-crystalline in part, earthy	5580	5590
Shale - black, soft, dense, sooty, calcareous	5590	5600
Dolomite - brown, gray, hard, dense, micro-crystalline in part, silty	5600	5605
Anhydrite - white, soft, massive	5605	5625
Shale - black, dark gray, soft, dense, stringers of anhydrite, occasional selenite crystals, trace of pyrite	5625	5640
Anhydrite - soft, massive, white, clear, hard, crystalline	5640	5665
Salt -	5665	5684
TOTAL DEPTH	5684	