

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 Gas Storage SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Mountain Fuel Resources, Inc.

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 1260' FNL 1900' FEL NW NE
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 4 1/2 miles south of Rock Springs, Wyoming

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 60'

16. NO. OF ACRES IN LEASE
 640

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.
 600' Unit #17

19. PROPOSED DEPTH
 6109'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GR 6534'

22. APPROX. DATE WORK WILL START*
 After Unit #37-S

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8" new	36#, K-55	300'	180 sx, 3% CaCl
8-3/4"	7" new	23#, K-55	6109'	To be determined

We would like to drill the subject well to an estimated depth of 6109', anticipated formation tops are as follows: Mancos at the surface, Frontier at 5524', Mowry at 5724', Dakota at 5909', and Morrison at 6022'.

Mud will be adequate to contain formation fluids and in sufficient quantities to efficiently drill the well; blowout preventers will be checked daily and pressure tested after each string of casing is set; no cores, no DST's; no mud logging unit; 20 days drilling time; no abnormal temperatures, pressures, or H2S anticipated; probably run Laterlog & CDL logs.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 2-18-77

BY: C.D. Feight

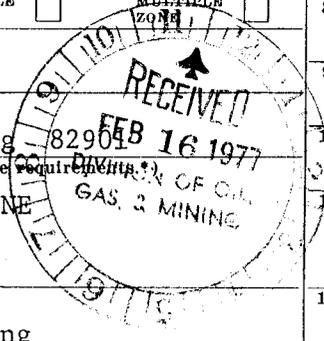
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present unproductive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

24. SIGNED R. H. Meyer TITLE Manager, Drilling and Petroleum Engineering DATE Feb. 12, 1977

(This space for Federal or State office use)

PERMIT NO. 43-009-30029 APPROVAL DATE _____

APPROVED BY Clause #164-1 TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:



5. LEASE DESIGNATION AND SERIAL NO.
 SL - 045053 a
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 -
 7. UNIT AGREEMENT NAME
 Clay Basin Gas Storage Agreement
 8. FARM OR LEASE NAME
 Unit Well
 9. WELL NO.
 38-S
 10. FIELD AND POOL, OR WILDCAT
 Clay Basin Gas Storage
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 NW NE 27-3N-24E
 12. COUNTY OR PARISH
 Daggett
 13. STATE
 Utah

Well Name Clay Basin Unit Well No. 38-S

Location NW NE 27-3N-24E

Daggett County, Utah

<u>Wellhead Equipment</u>	<u>Size</u>	<u>Pressure Rating</u>	<u>Pressure Test</u>
Surface Casing Flange	<u>10</u>	<u>3000</u>	<u></u>
Casing Spool	<u></u>	<u></u>	<u></u>
Tubing Spool	<u>10 x 6</u>	<u>3,000</u>	<u>6,000</u>
Tubing Bonnet	<u>10 x 4</u>	<u>3,000</u>	<u>6,000</u>

<u>Blow Out Preventers</u> (Top to Bottom)	<u>Size</u>	<u>PBI Rating</u>	<u>PBI Test</u>	<u>Bag</u>	<u>Rams</u>
	<u>10</u>	<u>3,000</u>	<u>6,000</u>	<u></u>	<u>Blind</u>
	<u>10</u>	<u>3,000</u>	<u>6,000</u>	<u></u>	<u>4-1/2</u>

<u>Gas Buster</u>	<u>Yes</u>	<u>No</u>	<u>De-gasser</u>	<u>Yes</u>	<u>No</u>
	<u></u>	<u>X</u>	<u></u>	<u></u>	<u>X</u>

<u>Kill or Control Manifold</u>	<u>2"</u>	<u>3,000</u>	<u>6,000</u>	<u>No</u>
	<u>Size</u>	<u>Pressure Rating</u>	<u>Pressure Rating Test</u>	<u>Hydraulic Valves</u>
	<u></u>	<u></u>	<u></u>	<u></u>

<u>Auxiliary Equipment</u>	<u>Kelly Cock</u>	<u>Yes</u>	<u>No</u>
	<u></u>	<u>X</u>	<u></u>

<u>Monitoring Equipment on Mud System</u>	<u>Yes</u>	<u>No</u>
	<u></u>	<u>X</u>

<u>Full Opening Drill Pipe Stabbing Valve on Floor</u>	<u>Yes</u>	<u>No</u>
	<u>X</u>	<u></u>

<u>Type of Drilling Fluid</u>	<u>X</u>	<u>Air</u>	<u>Gas</u>	<u>Oil Base Mud</u>
	<u>Water Base Mud</u>	<u></u>	<u></u>	<u></u>

Anticipated Bottom Hole Pressure 500
PBI

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

Well Name - Clay Basin Well No. 38-S

Field or Area - Clay Basin, Daggett County, Utah

1. Existing Roads -

- A) Proposed well site as staked - Refer to well location plat No. M-12390 for location of well access road and directional reference stakes.
- B) Route and distance from nearest town or locatable reference point to where well access route leaves main road - Refer to lateral map No. M-9030. From the Wyoming-Utah State Line to Rock Springs, Wyoming is 50 miles.
- C) Access road to location - Refer to lateral map No. M-9030 and well site map No. M-12390 for access road from Wyoming-Utah State Line to Clay Basin Unit Well No. 38-S.
- D) If exploratory well, all existing roads within a 3-mile radius of well site - Not an exploratory well.
- E) If development well, all existing roads within a 1-mile radius - This will be a storage development well. Refer to later map No. M-9030 for existing roads.
- F) Plans for improvement and/or maintenance of existing roads - All existing roads will be maintained as needed by Mountain Fuel equipment.

2. Planned Access Road -

- A) Width - 16' wide from shoulder to shoulder.
- B) Maximum grade - The maximum grade on the road is 8 percent.
- C) Turnouts - No turnouts will be constructed.
- D) Drainage design - A drainage ditch on the uphill side of the road will be constructed. It will be a minimum of one foot below the surface of the road. No water diversion ditches are anticipated.
- E) Location and size of culverts and description of major cuts and fills -
 - 1) No culverts needed.
 - 2) No sidehill cuts.
- F) Surfacing material - No surfacing material will be needed either on the road of location.
- G) Necessary gates, cattle guards or fence cuts - No cattle guards, gates, or fence cuts are anticipated.
- H) New or reconstructed roads - An existing road is located along the north edge of the location. This road will be relocated around the location cut.

3. Location of Existing Wells -

- A) Water wells - None within a one mile radius.
- B) Abandoned wells - None within a one mile radius.
- C) Temporarily abandoned wells - None within a one mile radius.

- D) Disposal wells - None within a one mile radius.
 - E) Drilling wells - Refer to area map No. M-9030 for proposed wells.
 - F) Producing wells - Clay Basin Well Nos. 12, 15, and 23 are productive gas wells.
 - G) Shut-in wells - None within a one mile radius.
 - H) Injection wells - Clay Basin Well Nos. 4, 6, and 10 are gas storage injection/withdrawal wells.
 - I) Monitoring or observation wells for other resources - None within a one mile radius.
4. Location of Existing And/Or Proposed Facilities - Refer to area map No. M-9030.
- A) 1) Tank batteries - None within a one mile radius.
 - 2) Production facilities - Each productive gas well has its own production facilities. Also, a compressor plant is located near Unit Well No. 3. Also, a compressor plant for injection is being built near Unit Well No. 3.
 - 3) Oil gathering lines -
No oil gathering lines are located in the Clay Basin area.
 - 4) Gas gathering lines - Several gas gathering lines exist within a one mile radius. Refer to area map No. M-9030.
 - 5) Injection lines - Several injection/withdrawal lines are located within a one mile radius. Refer to area map No. M-9030.
 - 6) Disposal lines -
None within a one mile radius.
 - B) 1) Proposed location and attendant lines by flagging if off the well pad -
The well will be used as a gas storage well. A 6-inch buried line will be installed from the well to the central dehydration facilities as shown on drawing No. M-9030.
 - 2) Dimensions of facilities - Refer to drawing No. M-12205.
 - 3) Construction methods and materials - No construction materials are anticipated. The dirt work will be done with a back hoe, i.e., ditches, dehydration base, tank base, etc.
 - 4) Protective measures and devices to protect livestock and wildlife -
The sump pit will be fenced as shown on drawing No. M-12205.
 - C) Plans for rehabilitation of disturbed area no longer needed for operations after construction is completed - After construction is complete, areas of non-use will be restored and seeded.
5. Location and Type of Water Supply -
- A) Location of water - The water withdrawal point on Red Creek is located in the SW 1/4 of Section 22, T.12N., R.105W., of the 6th P.M., Sweetwater County, Wyoming.
 - B) Method of transporting water - Water will be hauled by tank truck from Red Creek to Unit Well No. 38-S. The well access road, as shown on drawing No. M-9030, will be used as the water haul road.

-3-

C) Water well to be drilled on lease - No water well will be drilled.

6. Source of Construction Material -

A) Information - No construction material will be used.

B) Identify if from Federal or Indian land -

C) Where materials are to be obtained and used -

D) Access roads crossing Federal or Indian lands -

7. Method for Handling Waste Disposal -

A-D) Cuttings, drilling fluids, produced fluids, and sewage will be placed in the mud pit.

E) Garbage and other waste material will be placed in the burn pit.

F) After drilling operations have been completed, the location will be cleared of all litter, and the trash will be burned in the burn pit. The burn pit will be covered over. The mud pit liquids will be pumped out and dumped on the existing roads. The mud pit will be covered over.

8. Ancillary Facilities - There now is a camp located in the NE 1/4 of Section 21, T.3N., R.24E. with housing and general camp facilities. A landing strip is located on the north line of Section 21. Water is piped to the camp from a spring to the west.

9. Well Site Layout -

See drawing Nos. M-12390 and M-12391.

10. Plans for Restoration of Surface -

A) After drilling operations, the well site will be cleared and cleaned and the burn pit filled in. Should the well be a dry hole, the surface will be restored to the extent that it will blend in with the landscape. The reserve pit liquids will be pumped out and dumped on the existing roads.

B) Revegetation and rehabilitation of the location and access road will be done to comply with Bureau of Land Management recommendations.

C) Prior to rig release, pits will be fenced and so maintained until clean up.

D) If oil is in the mud pit, overhead flagging will be installed to keep birds out.

E) Clean up will begin within two months after drilling operations have been completed and the land will be restored at this time.

11. Other Information -

A) The location lies north of a large wash. The slope is down to the south at $\pm 3\%$. The soil is clay. The vegetation is native grass, sagebrush, and salt sage.

B) The surface belongs to the U.S. Government.

C) Water can be located in Red Creek. The Clay Basin camp is occupied by Mountain Fuel personnel. No historical, archaeological, or cultural sites are in the area to my knowledge.

12. Lessee's or Operator's Representative -

D. E. Dallas, Drilling Superintendent, P. O. Box 1129, Rock Springs, Wyoming 82901, telephone 307-362-5611.

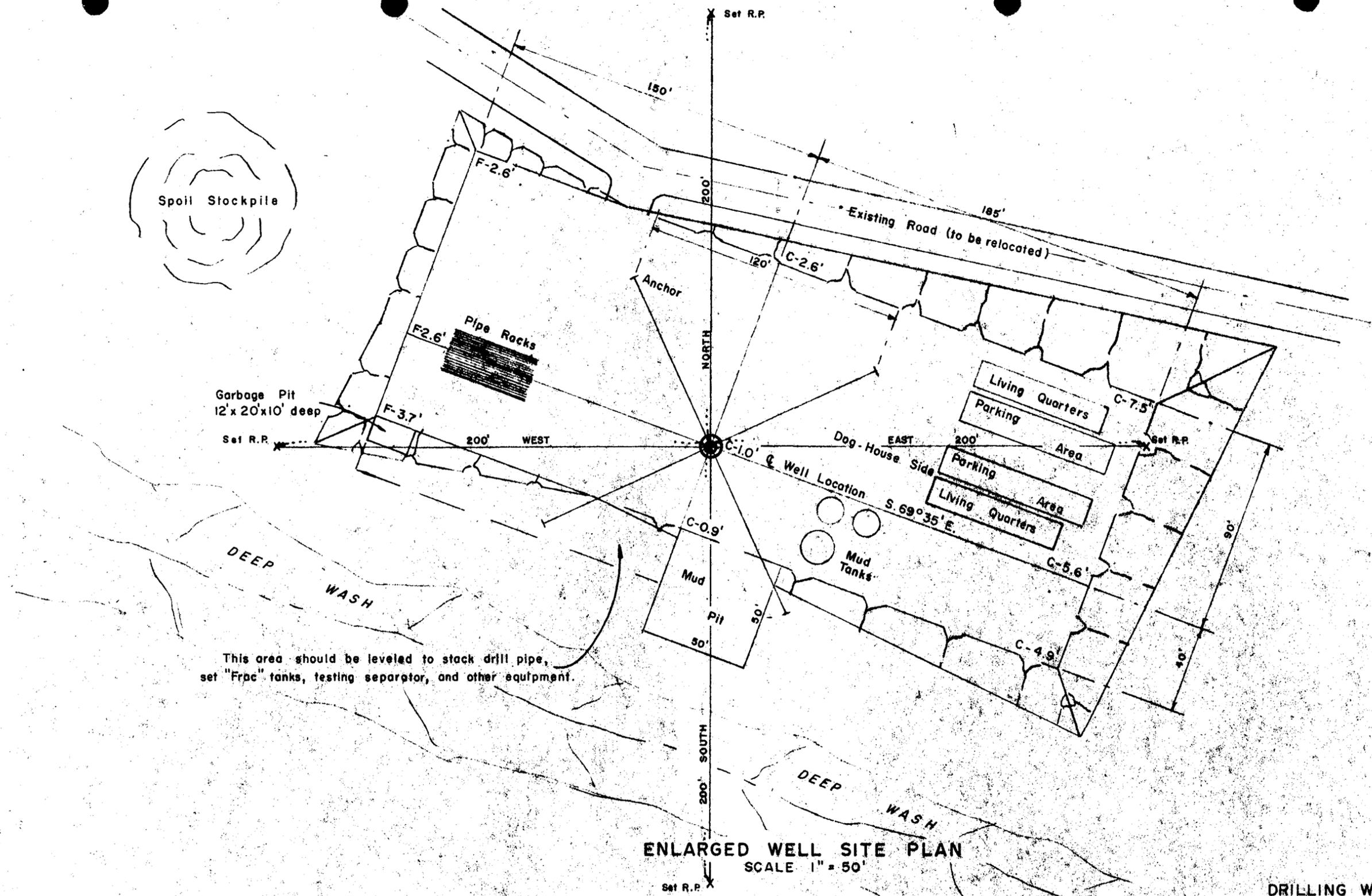
13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Mountain Fuel Supply Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date _____

Name Dale Dallen
Title Drilling Superintendent

cdk



ENLARGED WELL SITE PLAN
SCALE 1" = 50'

This area should be leveled to stack drill pipe, set "Frac" tanks, testing separator, and other equipment.

GENERAL NOTES:

At sites where topsoil is present, same is to be removed and stored on the adjacent land for restoration of the site when required.

Mud pit and garbage pit are to be fenced, unlined.

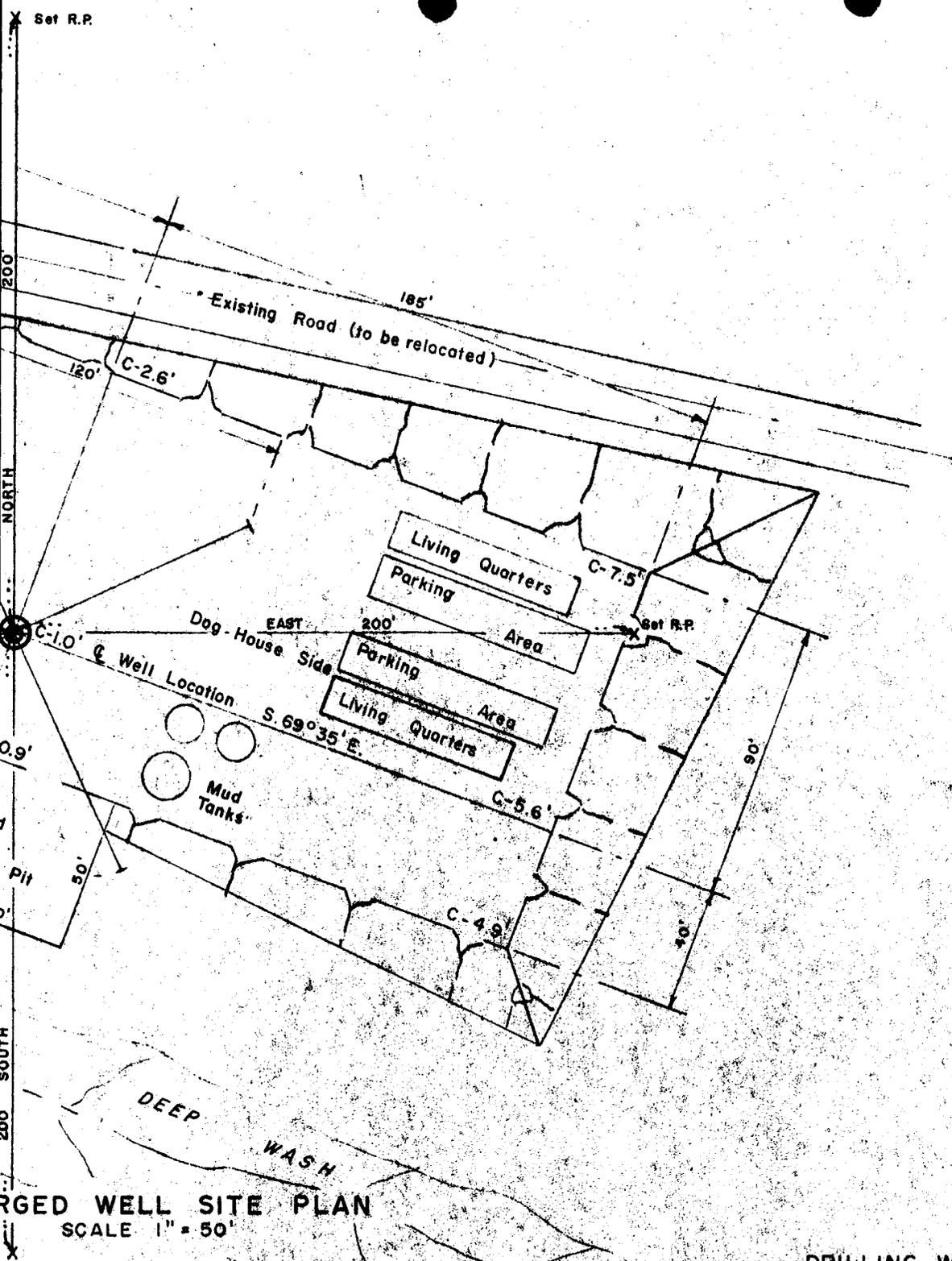
For well location profiles see drawing number M-12391.

Area for well location 1.0 acres.

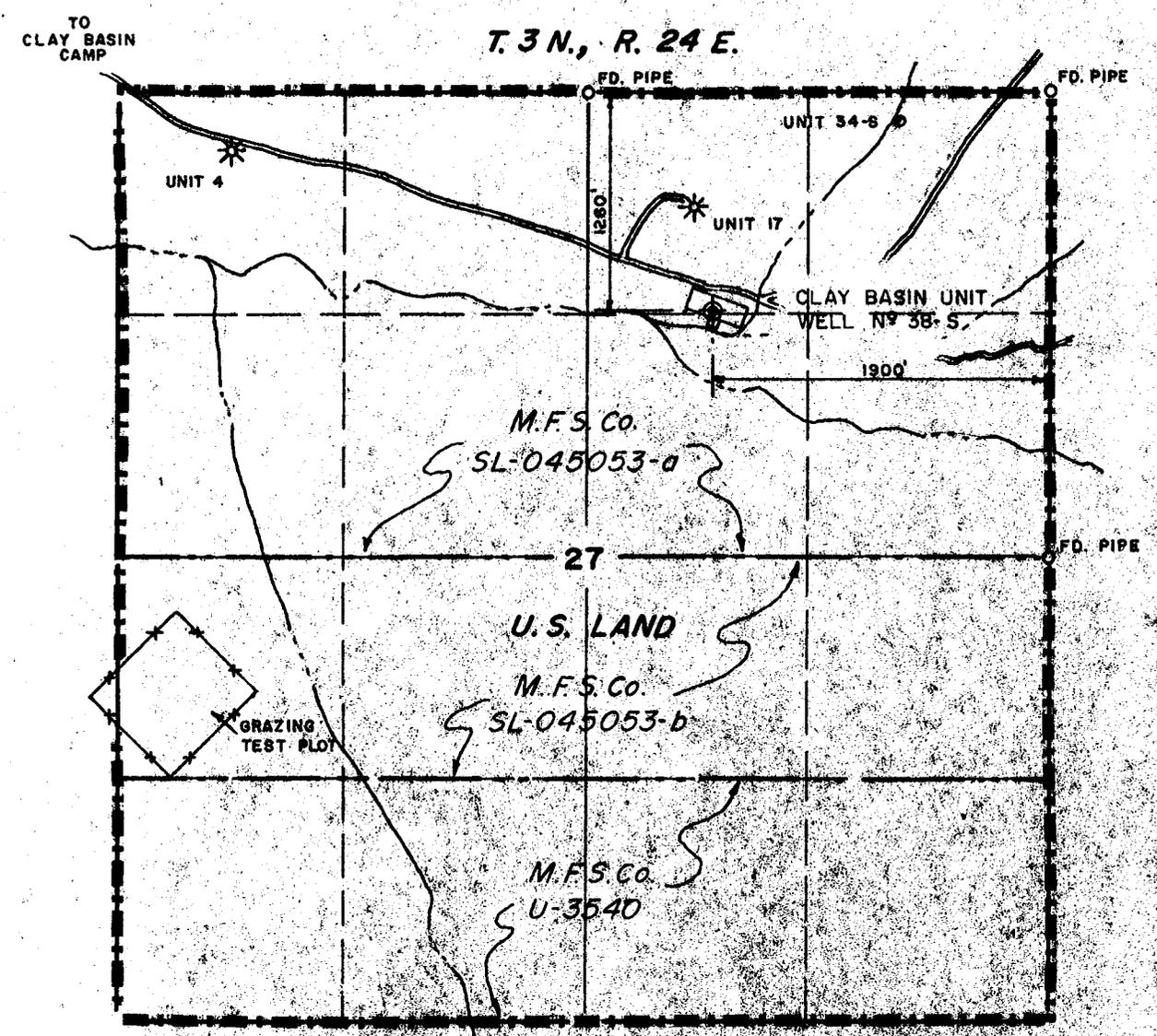
LEGEND	
	WELL
	STONE CORNER
	PIPE CORNER

ENGINEERING RECORD	
SURVEYED BY	S. M. Fablan 1/25/77
REFERENCES	G.L.O. PLAT <input type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>
LOCATION DATA	
FIELD	Clay Basin
LOCATION	NW 1/4, NE 1/4, Section 27, T.3N., R.24 E. Salt Lake Meridian, 1260' FNL, 1900' FEL.
Daggett County, Utah	
WELL ELEVATION	6534 (As Graded) by electronic vertical angle elevations from M.F.S. Co. bench mark Δ 127

DRILLING W.O.



ENLARGED WELL SITE PLAN
SCALE 1" = 50'



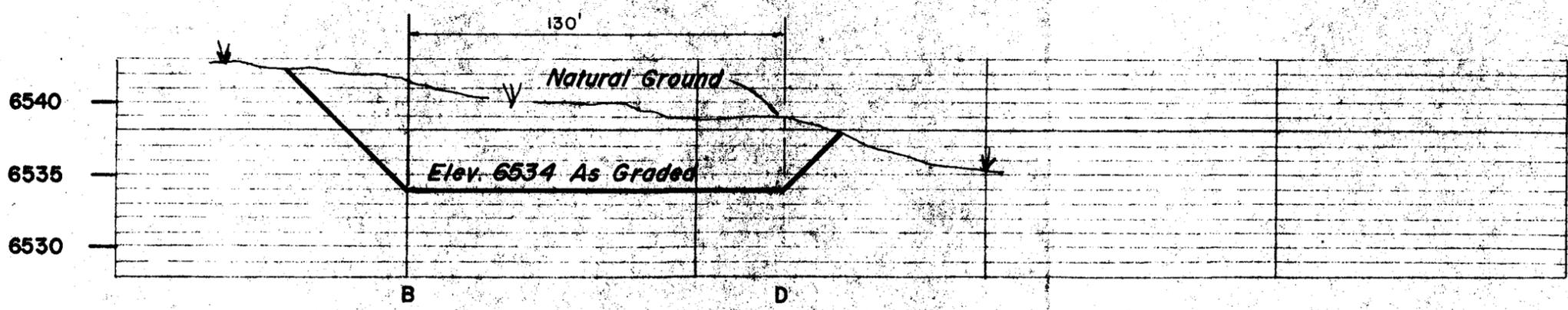
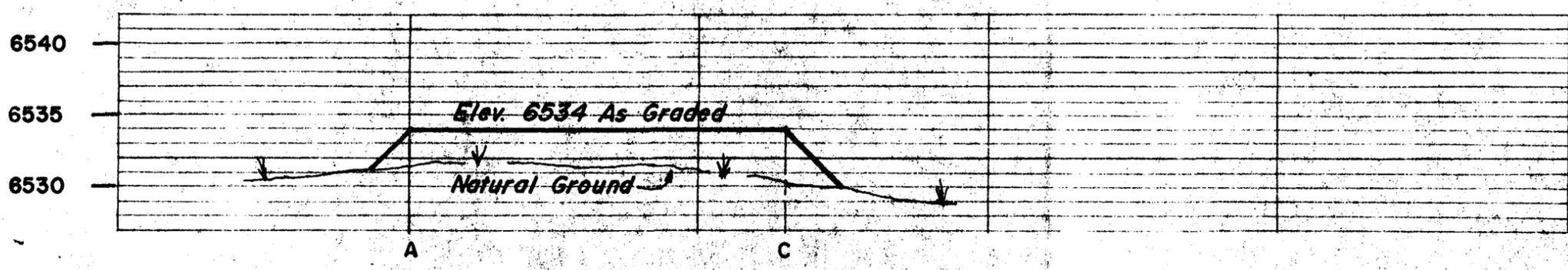
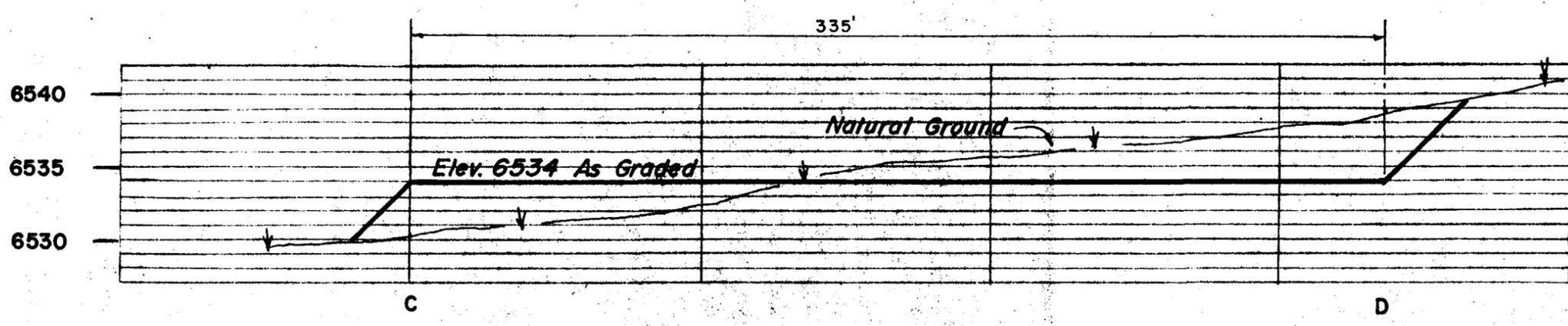
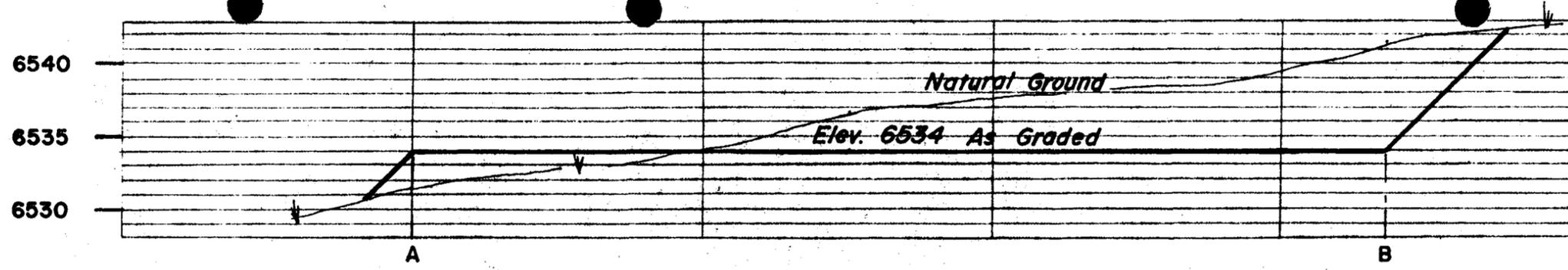
LOCATION PLAN
SCALE 1" = 1000'

This is to certify that the above plan 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.

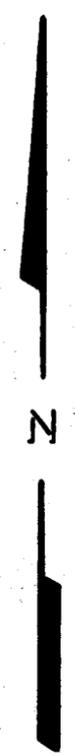
[Signature]
ENGINEER
UTAH REGISTRATION L.S. #3521

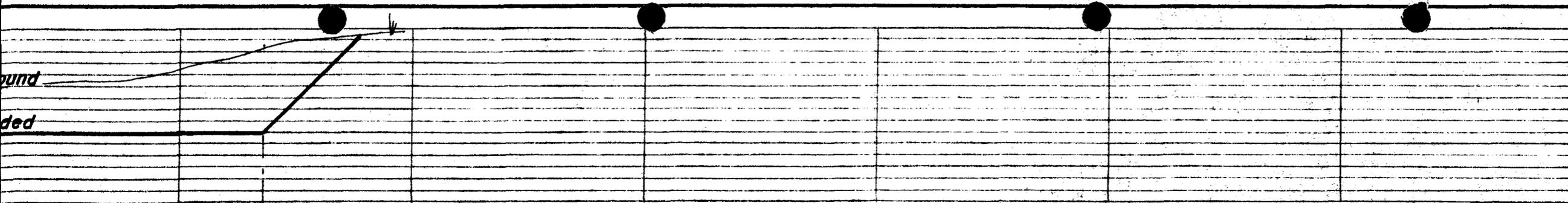
DRILLING W.O.

LEGEND		ENGINEERING RECORD		REVISIONS			MOUNTAIN FUEL RESOURCES, INC.	
⊕	WELL	SURVEYED BY	S. M. Fablan 1/25/77	NO.	DESCRIPTION	DATE	BY	CERTIFIED WELL LOCATION AND WELL SITE PLAN
⊕	STONE CORNER	REFERENCES	G.L.O. PLAT <input type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>					
⊕	PIPE CORNER	LOCATION DATA						
		FIELD	Clay Basin					
		LOCATION: NW 1/4, NE 1/4, Section 27, T. 3 N., R. 24 E. Salt Lake Meridian, 1260' FNL, 1900' FEL.						
		Daggett County, Utah						
		WELL ELEVATION: 6534 (As Graded) by electronic vertical angle elevations from M.F.S. Co. bench mark Δ 127						
								DRAWN: 1/31/77 C.R.W. SCALE: AS NOTED
								CHECKED: GEL SMF DRWG. NO. M-12390
								APPROVED: RWH

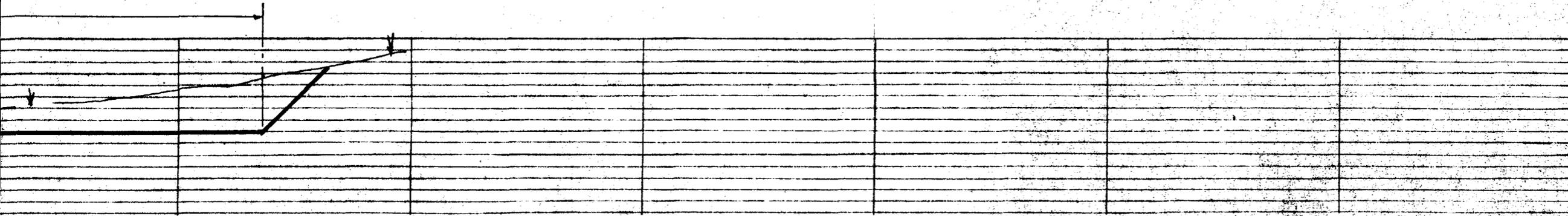


PROFILE SECTIONS - PROPOSED GRADED LOCATION
 Scale
 HORIZ. 1" = 50'
 VERT. 1" = 10'

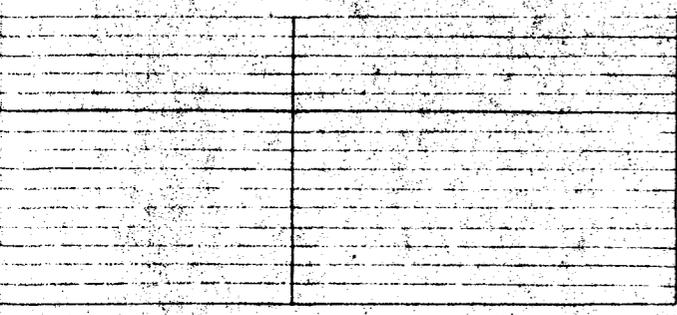
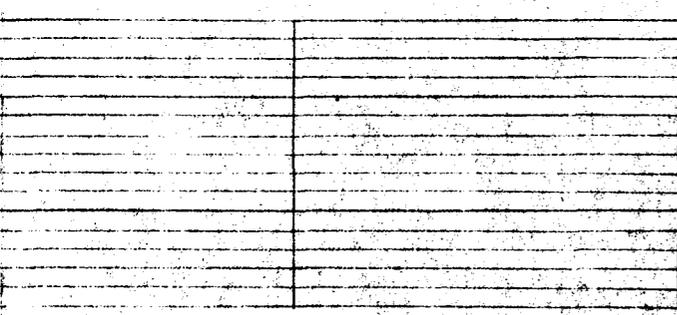




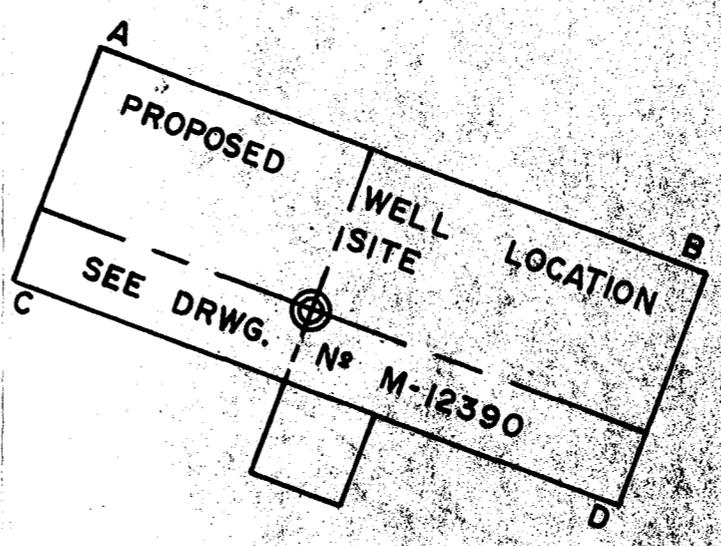
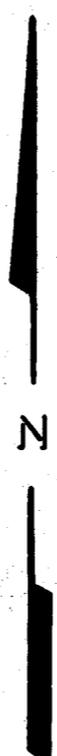
B



D



ATION



KEY MAP
Scale 1" = 100'

REVISIONS				MOUNTAIN FUEL RESOURCES, INC.	
NO.	DESCRIPTION	DATE	BY		
				PROFILES FOR CLAY BASIN UNIT WELL Nº 38-S WELL LOCATION SITE	
				DRAWN: 1/31/77 CRW	SCALE: AS NOTED
				CHECKED: GeL SMF	DRWG. NO. M-12391
				APPROVED: RWH	2/2

** FILE NOTATIONS **

Date: Feb 16
Operator: Mountain Fuel Services
Well No. Clay Basin Unit 38-5
Location: Sec. 27 T. 3N R. 24E, County: Daguerre

File Prepared	<input checked="" type="checkbox"/>	Entered on N.I.D.	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>	Completion Sheet	<input checked="" type="checkbox"/>

Checked By:

Administrative Assistant: [Signature]

Remarks:

Petroleum Engineer: [Signature]

Remarks:

Director: [Signature]

Remarks:

Include Within Approval Letter:

Bond Required Survey Plat Required
Order No. 164-1 Surface Casing Change
to _____

Rule C-3(c), Topographical exception/company owns or controls acreage within a 660' radius of proposed site

O.K. Rule C-3 O.K. In Clay Basin Unit

Other:

Appraised

P1

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

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER **Gas Storage**

2. NAME OF OPERATOR
Mountain Fuel Resources, Inc.

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

1260' FNL, 1900' FEL NW NE

14. PERMIT NO.
API No.: 43-009-30029

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 6534'

5. LEASE DESIGNATION AND SERIAL NO.
SLC 045053 a

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
Clay Basin Gas Storage Agreement

8. FARM OR LEASE NAME
Unit Well

9. WELL NO.
38-S

10. FIELD AND POOL, OR WILDCAT
Clay Basin Gas Storage

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW NE 27-3N-24E

12. COUNTY OR PARISH
Daggett

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 300', spudded May 12, 1977, ran 9-5/8" surface casing, now nipping up.

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

SIGNED *R. G. Meyer* TITLE Manager, Drilling and Petroleum Engineering DATE May 14, 1977

(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 TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. SLC 045053 a
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1260' FNL, 1900' FEL NW NE		8. FARM OR LEASE NAME Unit Well
14. PERMIT NO. API No.: 43-009-30029	15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6473.65' GR 6452'	9. WELL NO. 38-S
		10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW NE 27-3N-24E
		12. COUNTY OR PARISH Daggett
		13. STATE Utah

JUN 13 1977

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.)*

TD 6050', PBD 5985', landed 9-5/8" OD, 32.3#, H-40, casing at 269.78' and set with 200 sacks regular G cement with 3% calcium chloride, cement in place 5-13-77; landed 7" OD, 23#, K-55, casing at 6049.50' KBM and set with 550 sacks 50-50 Pozmix with 2% gel, cement in place 5-23-77; perforated from 5795' to 5837' with 2 jumbo jet shots per foot, set packer at 5695', landed 4-1/2" OD tubing at 5709.51' KBM, swabbed well in, flowed to pit, rig released June 2, 1977.

Final report.

NOTE: GROUND ELEVATION CORRECTED.

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

SIGNED *R. E. Myers*

TITLE Manager, Drilling and Petroleum Engineering

DATE June 9, 1977

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(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 type="checkbox"/> Other <u>Gas Storage</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>SLC - 045053 a</u>	
1b. 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 <u>Mountain Fuel Resources, Inc.</u>		7. UNIT AGREEMENT NAME <u>Clay Basin Gas Gas Storage Agreement</u>	
3. ADDRESS OF OPERATOR <u>P. O. Box 1129, Rock Springs, Wyoming 82901</u>		8. FARM OR LEASE NAME <u>Unit Well</u>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface <u>1260' FNL, 1900' FEL NW NE</u> At top prod. interval reported below At total depth		9. WELL NO. <u>38-S</u>	
14. PERMIT NO. _____ DATE ISSUED _____		10. FIELD AND POOL, OR WILDCAT <u>Clay Basin Gas Storage</u>	
API No.: <u>43-009-30029</u>		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA <u>NW NE 27-3N-24E</u>	
15. DATE SPUDDED <u>5-12-77</u>	16. DATE T.D. REACHED <u>5-21-77</u>	17. DATE COMPL. (Ready to prod.) <u>6-2-77</u>	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* <u>KB 6473.65' GR 6452'</u>
19. ELEV. CASINGHEAD -	20. TOTAL DEPTH, MD & TVD <u>6050</u>		21. PLUG, BACK T.D., MD & TVD <u>5985</u>
22. IF MULTIPLE COMPL., HOW MANY* -		23. INTERVALS DRILLED BY <u>0-6050'</u>	24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* <u>5795 - 5837' Dakota</u>
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN <u>Dual Laterolog, Compensated Densilog</u>	
27. WAS WELL CORED No		28. CASING RECORD (Report all strings set in well)	
29. LINER RECORD		30. TUBING RECORD	
31. PERFORATION RECORD (Interval, size and number) <u>5795-5837', jumbo jet, 2 holes per ft.</u>	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
33.* PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
DATE FIRST PRODUCTION -		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) <u>Flowing - GAS STORAGE</u>	
WELL STATUS (Producing or shut-in) <u>Shut in</u>		TEST WITNESSED BY	
DATE OF TEST -	HOURS TESTED -	CHOKES SIZE -	PROD'N. FOR TEST PERIOD →
FLOW. TUBING PRESS. -	CASING PRESSURE -	CALCULATED 24-HOUR RATE →	OIL—BBL. -
35. LIST OF ATTACHMENTS <u>Logs as above, Well Completion to be sent at a later date.</u>		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records	
SIGNED <u>R.S. Myers</u>		TITLE <u>Manager, Drilling and Petroleum Engineering</u>	
		DATE <u>June 9, 1977</u>	

*(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	MEAS. DEPTH	TRUE VERT. DEPTH
Log tops:		
Mancos	0'	
Frontier	5442'	
Mowry	5623'	
Dakota	5792'	
Morrison	5980'	

COMPLETION REPORT

Well: Clay Basin Unit No. 38-S Date: October 5, 1977

Area: Clay Basin Lease No: SLC 045053 a

- New Field Wildcat
- Development Well
- Shallower Pool Test
- New Pool Wildcat
- Gas Storage
- Deeper Pool Test
- Extension

Location: 1260 feet from North line, 1900 feet from East line
NW $\frac{1}{4}$ NE $\frac{1}{4}$

Section 27, Township 3 North, Range 24 East

County: Daggett State: Utah

Operator: Mountain Fuel Resources, Inc.

Elevation: KB 6473.65 Gr 6452 Total Depth: Driller 6050 Log 5989

Drilling Commenced: May 12, 1977 Drilling Completed: May 21, 1977

Rig Released: May 23, 1977 Well Completed: June 2, 1977

Sample Tops: (unadjusted)

Log Tops:

Mancos	Surface
Frontier	5442 (1032)
Mowry	5623 (851)
Dakota	5792 (682)
Morrison	5980 (494)

Sample Cuttings: None

Status: Gas storage injection/withdrawal well

Producing Formation: Dakota

Perforations: 5795-5837, jumbo jet, 2 holes per foot

Stimulation: None

Production: None reported

Plug Back Depth: 5985

Plugs: None

Hole Size: 12-1/4" to 300; 8-3/4" to 6050

Casing/Tubing: 9-5/8" to 269.78, 7" to 6049.50; 4-1/2" to 5709.51 with packer set at 5695

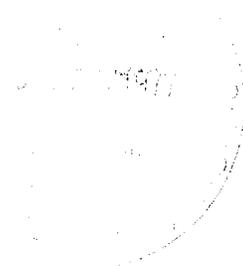
Logging - Mud: None

Mechanical: Compensated Densilog (5000-5987)
Dual Laterolog (267-5975)

Contractor: Loffland Brothers Company

Completion Report Prepared by: M. L. Tomac

Remarks: API No. 4300930029



COMPLETION REPORT (cont.)

Well: Unit No. 38-S

Area: Clay Basin

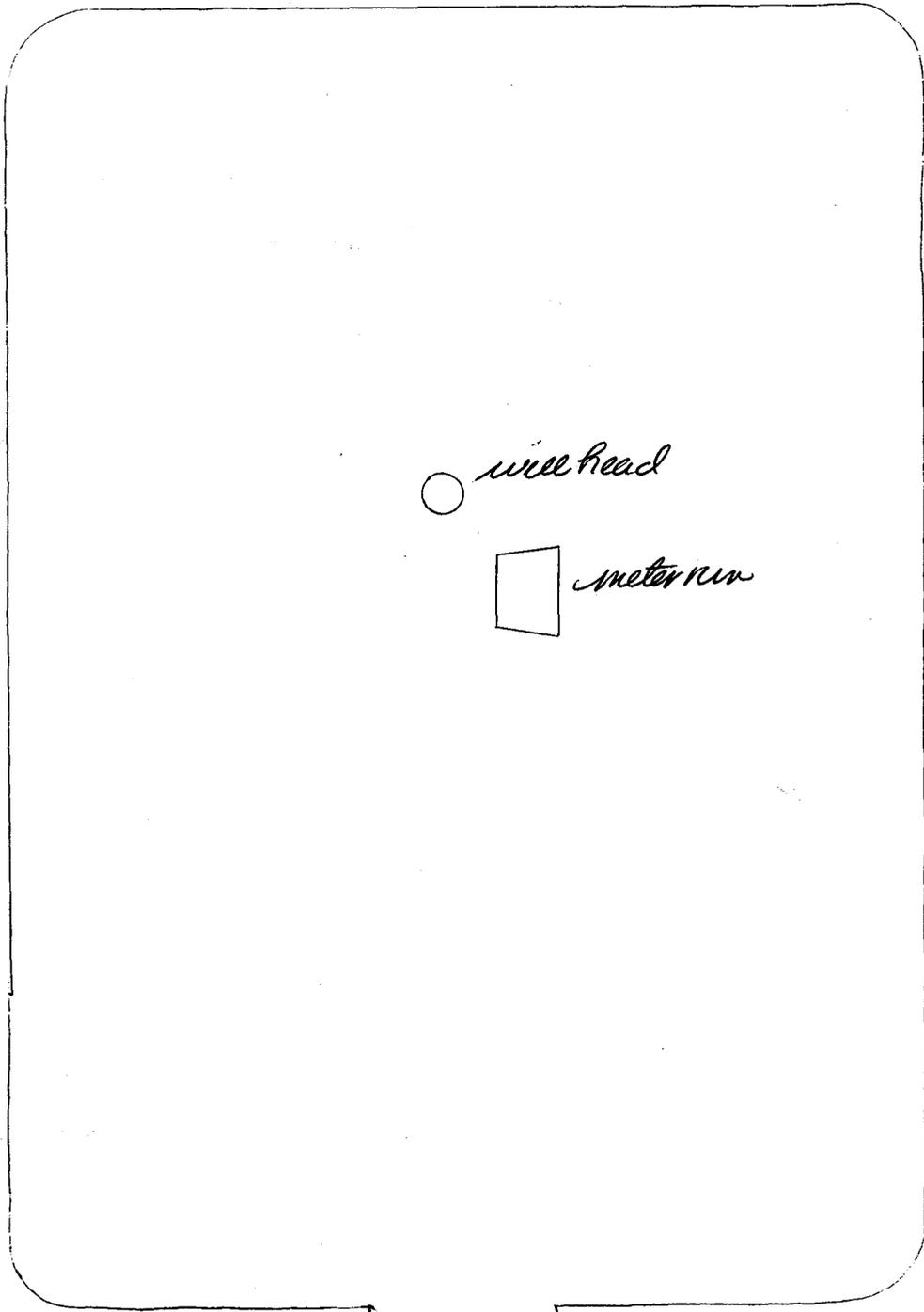
Cored Intervals (recovery): None

Tabulation of Drill Stem Tests: None

<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>
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Clay Basin U #38-Sec 27, 3N, 24E

14 June 88



well head

meter run

access road

main road

42,381 50 SHEETS SQUARE
42,382 100 SHEETS SQUARE
42,383 200 SHEETS SQUARE
42,384 300 SHEETS SQUARE
42,385 400 SHEETS SQUARE
NATIONAL
MADE IN U.S.A.



QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P. O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400
June 23, 1988

CERTIFIED MAIL
RETURNED RECEIPT REQUESTED
#P 879 571 459

Bureau of Land Management
Utah State Office
CFS Financial Center
324 S. State Street
Salt Lake City, UT 84111-2303

Re: Name Change
Mountain Fuel Resources, Inc.
to Questar Pipeline Company

Gentlemen:

Enclosed for your files and information is a certified copy of the Articles of Amendment to the Articles of Incorporation of Mountain Fuel Resources, Inc. dated March 7, 1988, indicating that Mountain Fuel Resources, Inc. changed its name to Questar Pipeline Company.

Questar Pipeline Company holds interests in the following Federal Oil and Gas Leases in Utah:

nominals on gas hold. w/in CA - U²9712-A - Questar Energy Co. 100%

CA well - RT of OR's Mt. Fuel Resources - U-11246 - RT Agreement pending to "Questar Energy Co."

SLC-045051(A) -> OR'S

SLC-045051(B) -> OR'S

SLC-045053(A) -> OR'S

SLC-045053(B) -> OR'S

SLC-062508 - OR'S

SLC-070555 - OR'S

SLC-070555(A) - OR'S

? Agreement No. 14-08-0001-16009
(Clay Basin Gas Storage Agreement)

Please note and adjust your records in accordance with the above and furnish verification of your receipt of this notice to the undersigned.

Sincerely,

J. B. Neese
Senior Landman

JBN/sdg

Enclosure

REC'D JUN 29 AM 9 00
BUREAU OF LAND MGMT.

List of Leases

Overriding Royalties

U-09712-A
U-011246

Operating Rights

SL-045051-A & B
SL-045053-A & B
SL-062508
SL-0700555
SL-070555-A
SL-045049-A & B

Clay Basin Gas Storage Agreement
Agreement No. 14-08-0001-16009

3100
U-09712-A
et al
(U-942)
C. Seare
3/9/89

DECISION

Questar Pipeline Company : Oil and Gas Leases
P.O. Box 11450 : U-09712-A et al
Salt Lake City, Utah 84147 :

Corporate Name Change Recognized

Acceptable evidence has been received establishing that Mountain Fuel Resources, Inc. has changed their name to Questar Pipeline Company. Accordingly, the surviving company, Questar Pipeline Company, is recognized as holding all interests in Federal oil and gas leases which were held by Mountain Fuel Resources, Inc. We are changing our records with respect to the attached listing of oil and gas leases. If there are any other leases that will be affected, please contact this office.

ACTING **/s/ M. Willis**
Chief, Minerals
Adjudication Section

Enclosure
List of Leases

cc: All District Offices, Utah
MMS, AFS
MMS, BRASS
920, Teresa Thompson
Clay Basin Unit File

CSeare:s1 3/9/89:1642f

RECEIVED
JAN 28 2004
DIV. OF OIL, GAS & MINING

6. (R649-9-2) Waste Management Plan has been received on:

IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 3/9/1989

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 1/29/2004
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 1/29/2004
3. Bond information entered in RBDMS on: 1/29/2004
4. Fee wells attached to bond in RBDMS on: 1/29/2004
5. Injection Projects to new operator in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 965003032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 965002976

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: n/a

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 965003033

2. The FORMER operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/29/2004

COMMENTS:

NEW ENTITY NUMBERS ASSIGNED FEBRUARY 2004

ACCT	OPERATOR NAME	API NUM.	Sec	Twنشp	Rng	WELL NAME	ENTITY	EFF DATE	REASON
N7560	Questar Pipeline Co	4300930050	22	030N	240E	Clay Basin Unit 54-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915630	23	030N	240E	Clay Basin U 6 (RD Murphy)	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915634	23	030N	240E	Clay Basin U 10 (1 CL Sparks)	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930020	23	030N	240E	Clay Basin Unit 29-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930022	23	030N	240E	Clay Basin Unit 31-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930040	23	030N	240E	Clay Basin Unit 44-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930041	23	030N	240E	Clay Basin Unit 45-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930053	24	030N	240E	Clay Basin Unit 57-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930032	26	030N	240E	Clay Basin Unit 41-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930033	26	030N	240E	Clay Basin Unit 42-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930039	26	030N	240E	Clay Basin Unit 43-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930042	26	030N	240E	Clay Basin Unit 46-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930051	26	030N	240E	Clay Basin Unit 55-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930052	26	030N	240E	Clay Basin Unit 56-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915628	27	030N	240E	Clay Basin U 4 (ES Lauzer 1)	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930025	27	030N	240E	Clay Basin Unit 34-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930028	27	030N	240E	Clay Basin Unit 37-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930029	27	030N	240E	Clay Basin Unit 38-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930043	27	030N	240E	Clay Basin Unit 47-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage

Note to file: These entity numbers
were changed to compliment the
operator correction from 3/7/98