

FILE NOTATIONS

Entered in N.I.D. File

Entered On S.R. Sheet _____

Location Map Pinned _____

Card Indexed

I.W.R. for State or Fee Land _____

Checked by Chief _____

Copy N.I.D. to Field Office _____

Approval _____

Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 6-14-77 *SI*

Location Inspected _____

OW _____ WW _____ TA _____

Bond released _____

GW _____ OS _____ PA _____

State of Fee Land _____

LOGS FILED

Driller's Log

Electric Logs (No.)

E _____ I _____ E-I _____ GP _____ GRM _____ Micro _____

Lat _____ Mi-L _____ Sonic _____ Ciners _____

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**

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
 1050' FNL, 1250' FWL NW NW
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 41 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)
 70'

16. NO. OF ACRES IN LEASE
 680

17. NO. OF ACRES ASSIGNED TO THIS WELL
 -

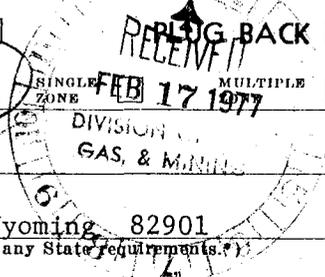
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 1700'
 Unit #23

19. PROPOSED DEPTH
 6148'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GR 6688'

22. APPROX. DATE WORK WILL START*
 After Unit #41-S



5. LEASE DESIGNATION AND SERIAL NO.
 SL - 045053 b

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 -

7. UNIT AGREEMENT NAME
 Clay Basin Gas Storage Agreement

8. NAME OF LEASEE
 Unit Well

9. WELL NO.
 42-S

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 NW NW 26-3N-24E

12. COUNTY OR PARISH
 Daggett

13. STATE
 Utah

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	6148'	To be determined

We would like to drill the subject well to an estimated depth of 6148', anticipated formation tops are as follows: Mancos at the surface, Frontier at 5598', Mowry at 58085', Dakota at 5948', and Morrison at 6104'.

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; core from 5888' to 6008', no DST's; no mud logging unit; 20 days drilling time; no abnormal temperatures, pressures, or H2S anticipated; probably run Dual Laterlog, Density CNL w/GR Caliper, Sonic w/GR Caliper, and FIL & Shear Wave logs.

APPROVED BY THE DIVISION OF
 OIL, GAS, AND MINING
 DATE: 2-28-77
 BY: C.B. Jughlin

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 [Signature] TITLE Manager, Drilling and Petroleum Engineering DATE Feb. 15, 1977

(This space for Federal or State office use)

PERMIT NO. 43-009-30033 APPROVAL DATE _____
 PREPARED BY Case # 164-1 TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

** FILE NOTATIONS **

Date: Feb. 28, 1977
Operator: Mountain Fuel Supply
Well No: Clay Basin 42-5
Location: Sec. 26 T. 3N R. 24E County: Biggs

File Prepared Entered on N.I.D.
Card Indexed Completion Sheet

CHECKED BY:

Administrative Assistant JW

Remarks: OK

Petroleum Engineer de Pe

Remarks: 2

Director _____

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

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

Rule C-3(c), Topographic 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:

~~Letter written~~ / Approved

Well Name Clay Basin Unit Well No. 42-S

Location SE NW 26-3N-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 (Top to Bottom)</u>	<u>Size</u>	<u>PST Rating</u>	<u>PST 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>X</u> No	<u>Deqanner</u>	<u>Yes</u>	<u>X</u> No

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

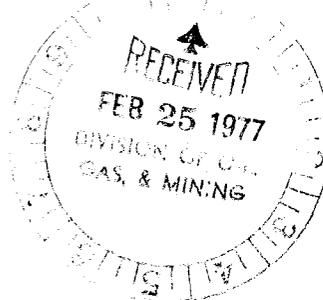
<u>Auxiliary Equipment</u>	<u>Kelly Cock</u>	<u>X</u> Yes	<u>No</u>

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

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

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

Anticipated Bottom Hole Pressure 500
PST



Well Name Clay Basin Unit Well No. 42-S

Location SE NW 26-3N-24E

Daggett County, Utah

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

<u>Blow Out Preventers</u> (Top to Bottom)	<u>Size</u>	<u>BOI Rating</u>	<u>BOI Test</u>	<u>Bag</u>	<u>Rams</u>
	10	3,000	6,000		Blind
	10	3,000	6,000		4-1/2
<u>Gas Buster</u>	<u>Yes</u>	<u>X</u> No	<u>Degasser</u>	<u>Yes</u>	<u>X</u> No

<u>Kill or Control Manifold</u>	<u>2"</u> Size	<u>3,000</u> Pressure Rating	<u>6,000</u> Pressure Rating Test	<u>No</u> Hydraulic Valves
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<u>Auxiliary Equipment</u>	<u>Kelly Cock</u>	<u>Yes</u>	<u>No</u>
		X	

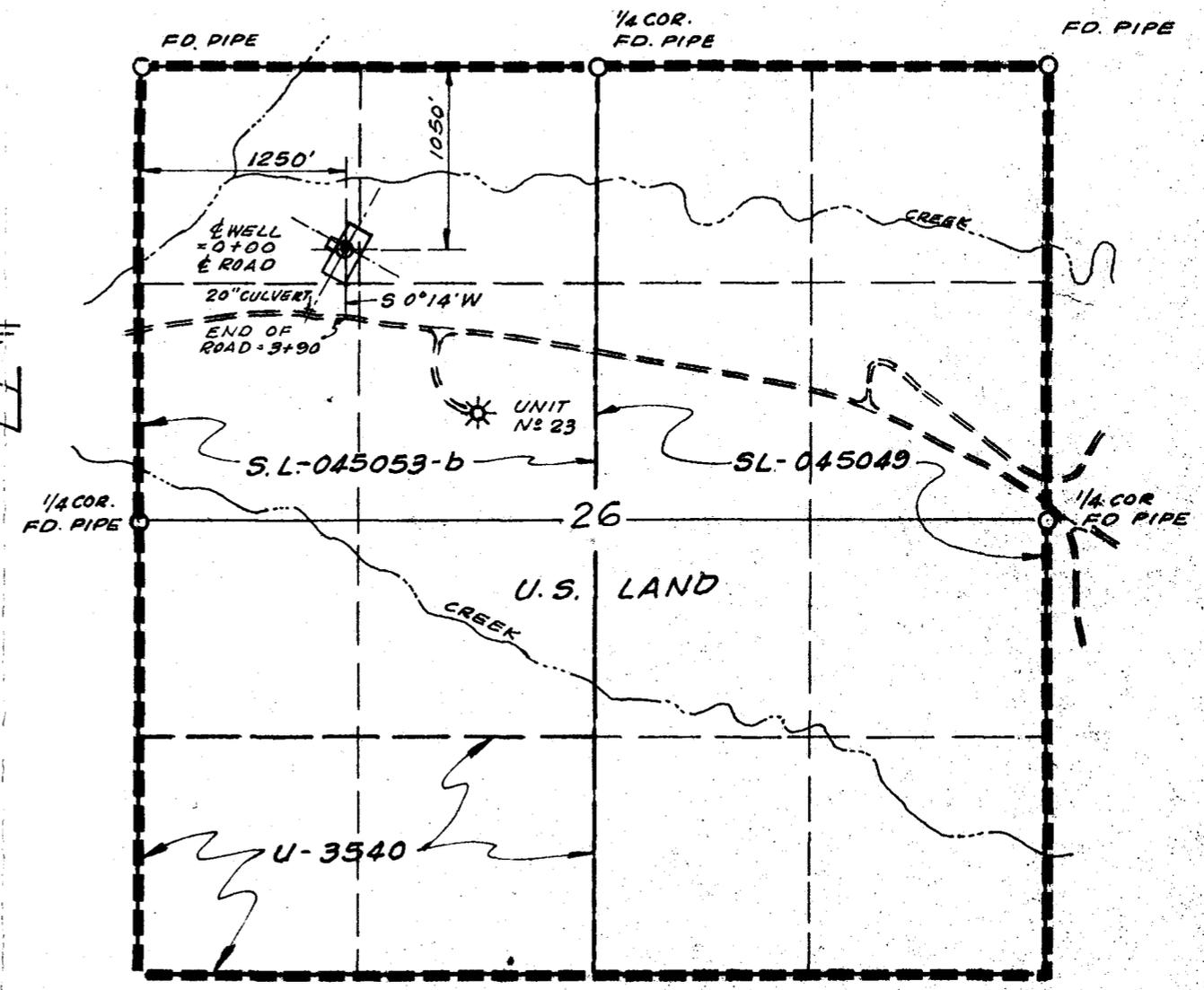
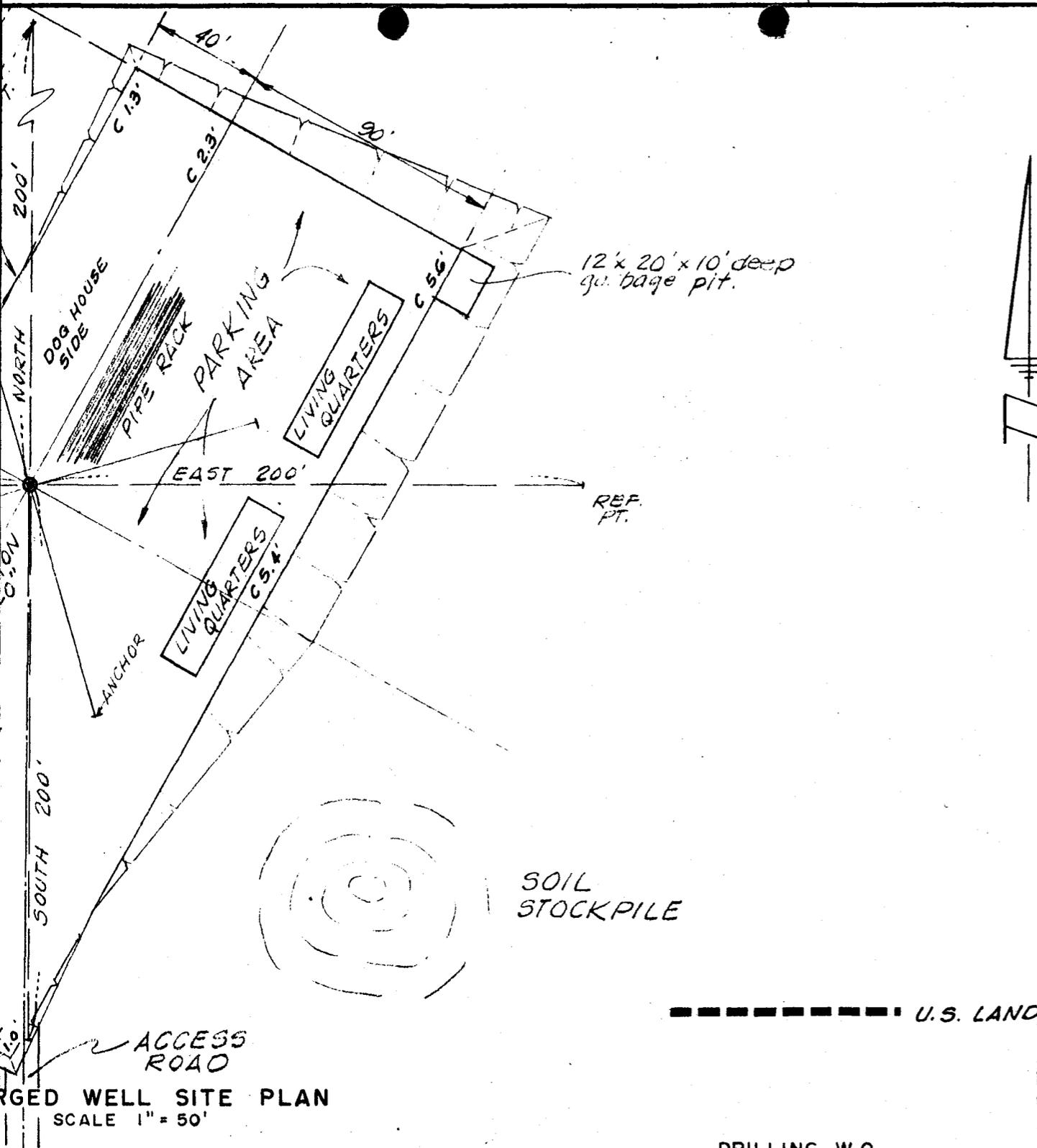
<u>Monitoring Equipment on Mud System</u>	<u>Yes</u>	<u>No</u>
		X

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

<u>Type of Drilling Fluid</u>	<u>X</u> Water Base Mud	<u>Air</u>	<u>Gas</u>	<u>Oil Base Mud</u>
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Anticipated Bottom Hole Pressure 500
PSI

T3N, R24E, S1M



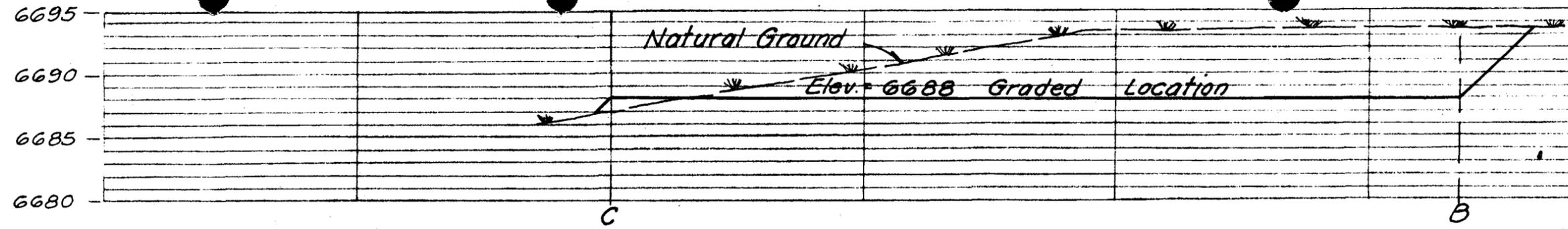
LOCATION PLAN
SCALE 1" = 1000'

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.

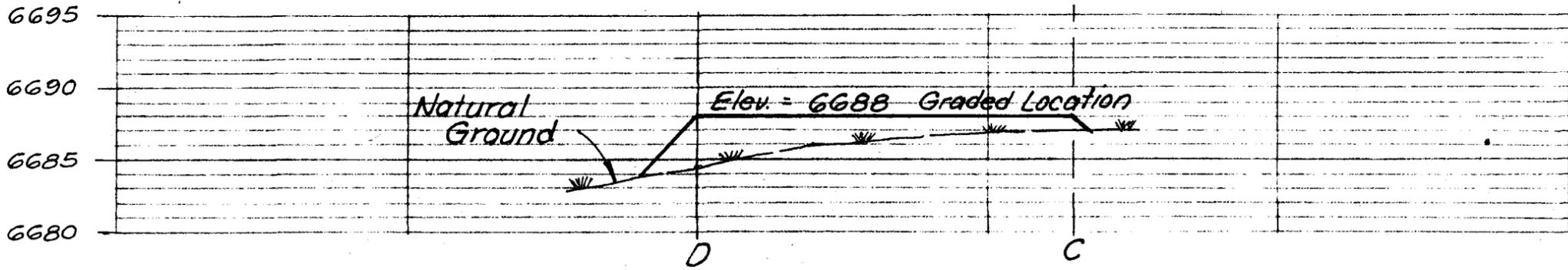
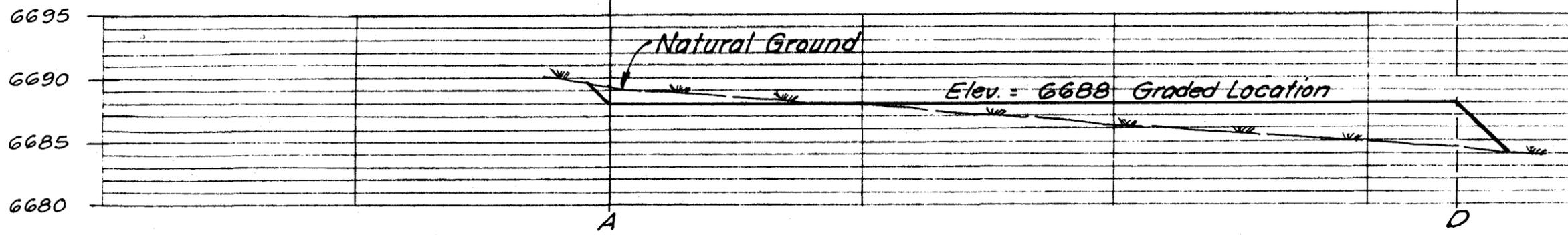
Richard
ENGINEER
UTAH REGISTRATION L.S. No 3521

DRILLING W.O.

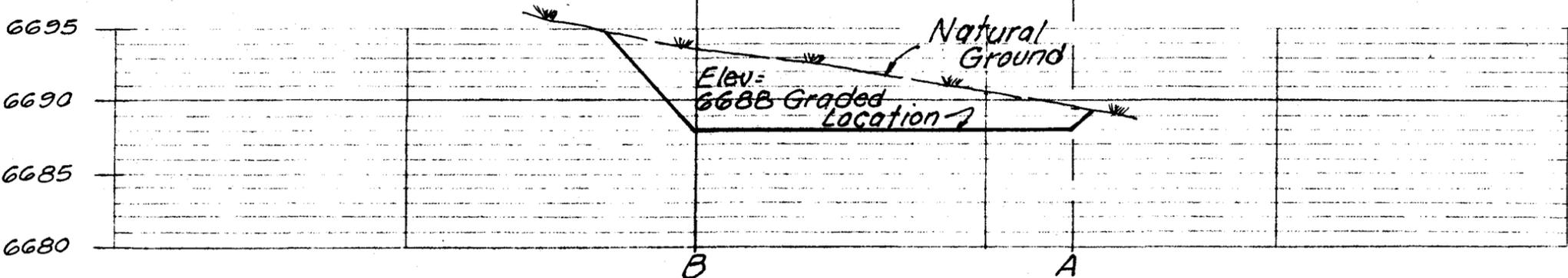
LEGEND		ENGINEERING RECORD		REVISIONS				MOUNTAIN FUEL RESOURCES INC.	
⊕	WELL	SURVEYED BY	S. M. Fabian 1-25-77	NO.	DESCRIPTION	DATE	BY	CERTIFIED WELL LOCATION AND WELL SITE PLAN CLAY BASIN UNIT WELL No 42-5	
⊕	STONE CORNER	REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>						
⊕	PIPE CORNER	LOCATION DATA						DRAWN: 1-28-77 AHW SCALE: AS NOTED CHECKED: GEL RWH DRWG. NO. M-12388 1/2 APPROVED:	
		FIELD	Clay Basin						
		LOCATION:	NW 1/4, NW 1/4, Sec 26, T. 3N, R. 24E., S.L.M. 1050 FNL, 1250 FWL.						
			Daggett County, Utah						
		WELL ELEVATION:	6688 (as graded) by electronic vertical angle observation from MFS Co. BM. 4126						



335'



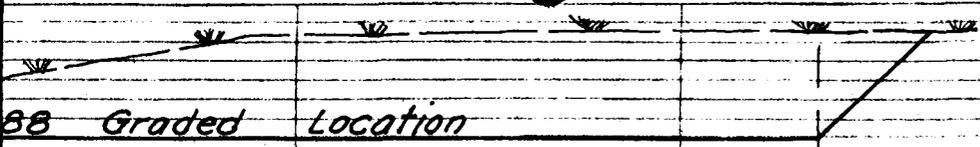
130'



PROFILE SECTIONS
PROPOSED GRADED LOCATION

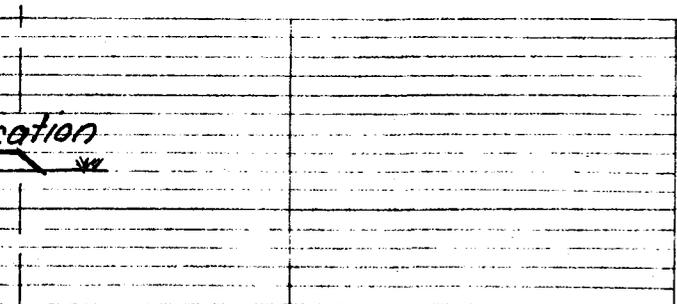
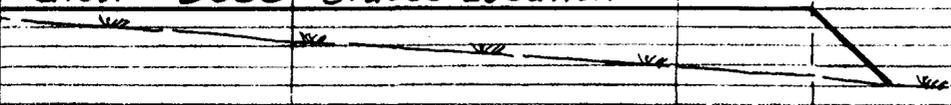
Proposed well location site see Dwg N^o M-12388

SCALE: 1" = 50' HORIZ.
1" = 10' VERT.

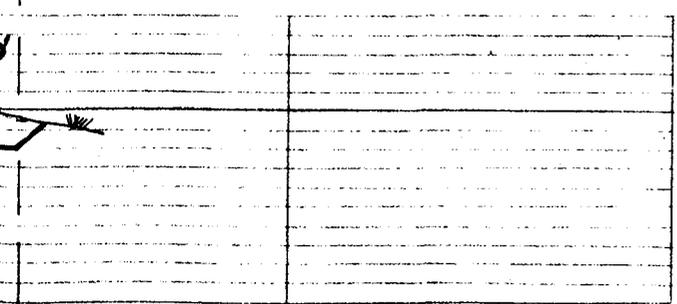


335'

Elev. = 6688 Graded Location



C

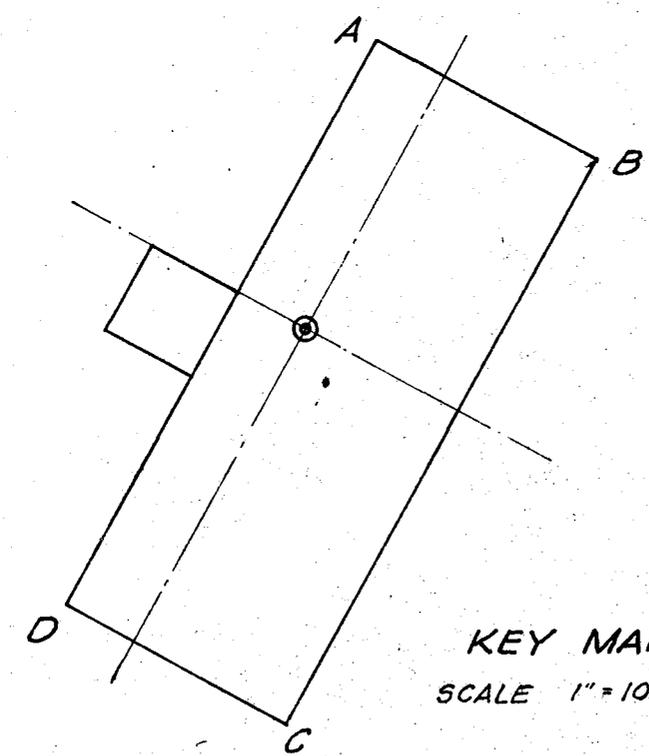


A

SECTIONS
GRADED LOCATION

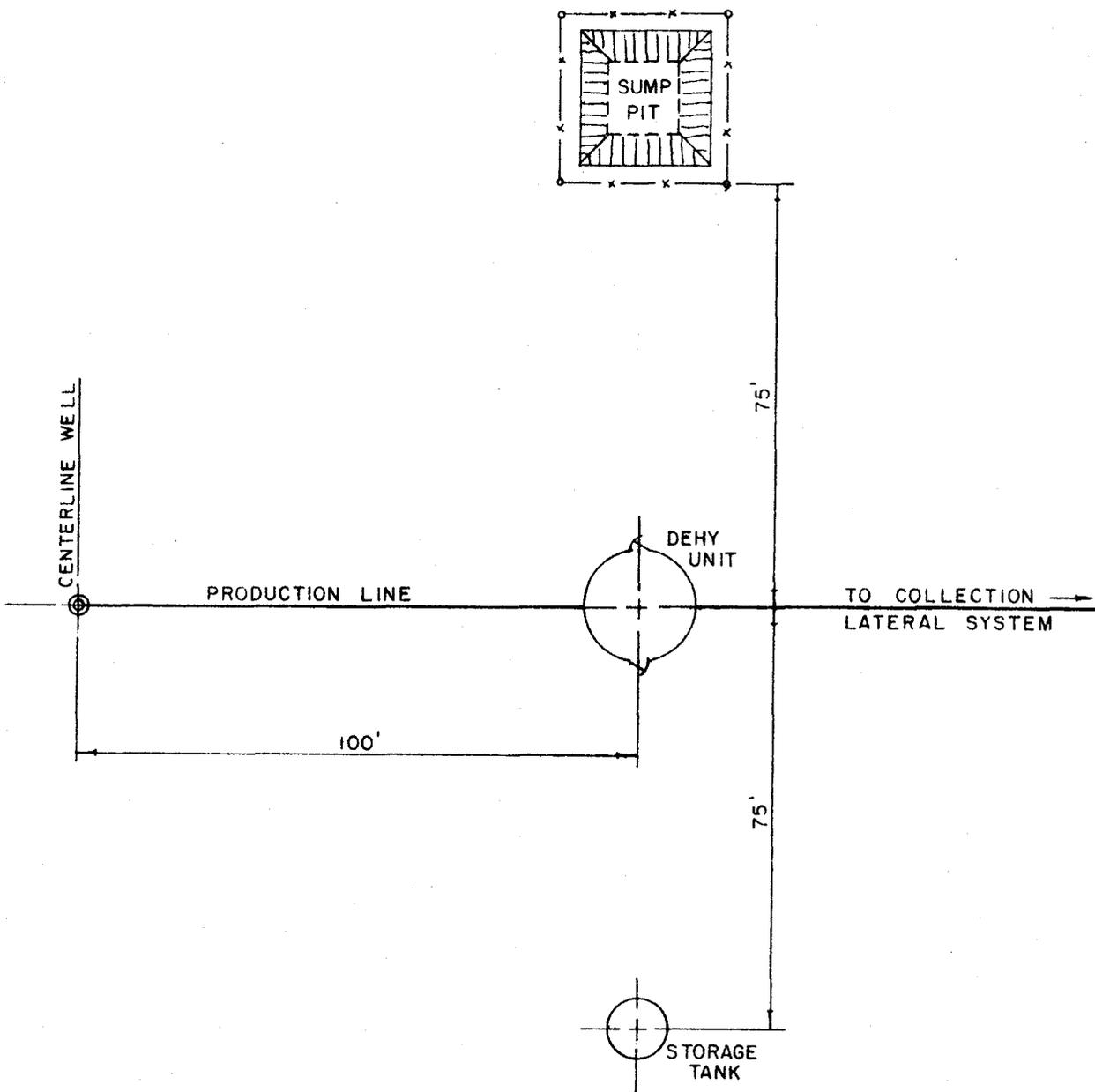
1" = 50' HORIZ.
1" = 10' VERT.

Proposed well location site see Dwg No M-12388



KEY MAP
SCALE 1" = 100'

REVISIONS				 MOUNTAIN FUEL RESOURCES INC.
NO.	DESCRIPTION	DATE	BY	
				PROFILES FOR CLAY BASIN UNIT WELL No 42-S WELL LOCATION SITE
				DRAWN: 1-28-77 A.H.W. SCALE: AS NOTED CHECKED: Gel RWH DRWG. NO. M-12389 2/2 APPROVED:



REVISIONS				 MOUNTAIN FUEL RESOURCES INC.
NO.	DESCRIPTION	DATE	BY	
				TYPICAL PRODUCTION FACILITIES LAYOUT FOR CLAY BASIN UNIT WELL N° 42-S
DRAWN: 7/9/76 FJC		SCALE: NONE		DRWG. NO. M-12205
CHECKED:				
APPROVED:				

CHECKLIST 3000psi EQUIPMENT

Well _____ Casing _____

Contractor and operator to furnish name checked (x)

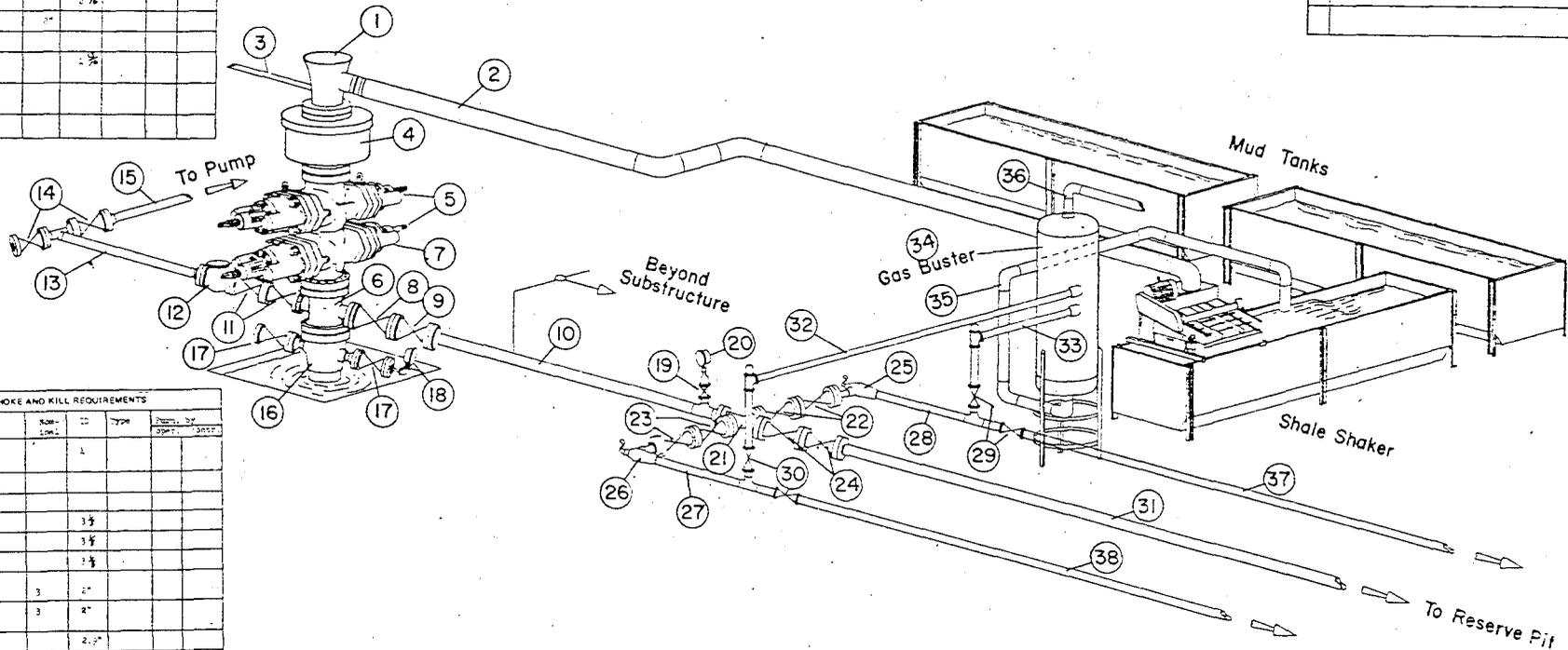
STANDARD STACK REQUIREMENTS					
No.	Item	Size	ID	Type	Furn. by
1	Drilling Nipple				oper. SWIFT
2	Flowline				
3	Fill up Line	2"			
4	Annular Preventor			Hydril Cameron Shaffer	
5	Two single or one dual Hys. oper. pass			1. 42" 2. 42"	
6	Drilling Spool with 2" and 3" outlets			Parsons	
7	As alternate to (6) Run and Kill lines Two outlets in this pass.				
8	Valve Gate	3 1/2"			
9	Valve hydraulically operated gate	3 1/2"			
10	Choke Line				
11	Gate Valve	3 1/2"			
12	Check Valve	2 1/2"			
13	Kill Lin-	2"			
14	Valves-gate	2 1/2"			
15	KILL line to Pump	2"			
16	Casing Head				
17	Valve Gate Plus	2 1/2"			
18	Compound Pressure Gauge				
	Wear bearing				

MOUNTAIN FUEL SUPPLY COMPANY

3000 psi BLOWOUT PREVENTION EQUIPMENT

SPECIAL CHOKES AND KILL REQUIREMENTS					

SPECIAL STACK REQUIREMENTS					



STANDARD CHOKES AND KILL REQUIREMENTS					
No.	Item	Size	ID	Type	Furn. by
19	Valve Gate Plus	3 1/2"			
20	Compound Pressure				
21	Cross 3 1/2"				
22	Valve Gate	3 1/2"			
23	Valve Gate	3 1/2"			
24	Valve Gate	3 1/2"			
25	Choke Dam N-2 or equivalent	3	2"		
26	Choke Dam N-2 or equivalent	3	2"		
27	Line to Separator		2.9"		
28	Line to Separator		2.9"		
29	Valve Gate		3 1/2"		
30	Valve Gate		3 1/2"		
31	Line to Res. Pit		2.9"		
32	Line to Separator		2.9"		
33	Line to Separator		2.9"		
34	Separator				
35	Discharge Line				
36	Vent Line				
37	Line to Res.		2.9"		
38	Line to Res. Pit		2.9"		

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

Well Name - Clay Basin Well No. 42-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-12388 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-12388 for access road from Wyoming-Utah State Line to Clay Basin Unit Well No. 42-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) For culvert size and location see drawing No. M-12388.
 - 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 - For the new access road see drawing No. M-12388. No existing road will be improved.

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 - No drilling wells within a one mile radius.
- F) Producing wells - Clay Basin Unit Nos. 17, 12, 15, and 23 are productive gas wells.
- G) Shut-in wells - None within a one mile radius.
- H) Injection wells - Clay Basin Unit Nos. 6 and 10 are injection/withdrawal storage 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 - Lateral Nos. 370, 402, 292, and 358 are surface gas laterals.
- 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. 42-S. The well access road, as shown on drawing No. M-9030, will be used as the water haul road.

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-12388 and M-12389.

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 on a $\pm 2\%$ slope down to the west. The soil is sandy clay with gravel rock. The vegetation is sagebrush and range grass. The access road bears south to an existing road.

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 *Rale Dallas*
Title Drilling Superintendent

cdk

K

INTEROFFICE COMMUNICATION

FROM T. M. Colson

Rock Springs, Wyoming

CITY

STATE

TO R. G. Myers

DATE May 2, 1977

SUBJECT Tentative Plan to Drill

Unit Well No. 42-S

Clay Basin Field

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 February 11, 1977.

TMC/gm

Attachment

cc: R. D. Cash
E. R. Keller (3)
G. A. Peppinger (3)
A. J. Marushack
A. K. Zuehlsdorff
D. E. Dallas
A. J. Maser (3)
J. E. Adney
E. J. Widic
B. M. Steigleder
E. A. Farmer
D. L. Reese
U.S.G.S.
State
Paul Zubatch
P. E. Files (4)



From: Pat Brotherton

Rock Springs, Wyoming

To: T. M. Colson

May 2, 1977

Tentative Plan to Drill
Unit Well No. 42-S
Clay Basin Field

This well will be drilled to total depth by _____ Drilling Company. One work order has been originated for the drilling and completion of this well, namely 20052, Drill Unit Well No. 42-S, Clay Basin field, located in the NW NW Sec. 26, T. 3 N., R. 24 E., Daggett County, Utah. An 8-3/4-inch hole will be drilled to a total depth of 6148 feet and 7-inch O.D. casing run. It is planned to complete the well as a gas storage well in the Dakota formation. 120 feet of cores will be cut, starting at a point 60 feet from the bottom of the Mowry and through 60 feet of the Dakota storage sand. Surface elevation is at 6688 feet.

1. Drill 12-1/4-inch hole to approximately 330 feet KBM.
2. Run and cement approximately 300 feet of 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing. The casing will be cemented by Halliburton with 165 sacks of regular Type "G" cement with 3 percent calcium chloride, which represents theoretical requirements plus 100 percent excess cement for 9-5/8-inch O.D. casing in 12-1/4-inch hole with cement returned to surface. Plan on leaving a 10 foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 50 barrels of mud. Capacity of the 9-5/8-inch O.D. casing is 24 barrels.
3. After a WOC time of 6 hours, remove the landing joint and wash off casing collar. Install a NSCo. Type "B" 10-inch 3000 psi regular duty casing flange tapped for 9-5/8-inch O.D. casing. Install a 2-inch extra heavy nipple, 6-inches long, and

a Demco (2000 psi WOG, 4000 psi test) ball valve on one side outlet of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install a 10-inch 3000 psi double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top and finish nipping up. After a WOC time of 12 hours, pressure test surface casing, all preventer rams, and Kelly-cock to 1000 psi for 15 minutes using rig pump and drilling mud. The burst pressure rating for 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing is 3520 psi.

4. Drill 8-3/4-inch hole to the total depth of 6148 feet or to such depth as the Geological Department may recommend. The mud will consist of 2 percent potassium chloride water to 4500 feet. Mud up with the potassium Dexdrid Drispac system at this point to allow a 10 cc. water loss at 5888 feet when the coring begins. The 10 cc. water loss will be maintained from the coring point to total depth at 6148 feet. If lost circulation is encountered, only acid soluble lost circulation material will be used. A mud cleaner will be used from surface to total depth to remove undesirable solids from the mud system and to keep the mud weight to a minimum. A Company Geologist will be on location to check cutting samples; 10 foot samples from 5400 feet to total depth. 120 feet of cores will be cut from approximately 5888 feet to 6008 feet (60 foot Mowry core, 60 foot Dakota core). Anticipated tops are as follows:

	<u>Approximate Depth</u> <u>(Feet KBM)</u>
Mancos	Surface
Frontier	5,598
Mowry	5,808
Dakota	5,948
Morrison	6,104
Total Depth	6,148

Objective Reservoir: Dakota Formation

Other Possible

Producing Zones: Frontier Formation

5. Run a laterolog from surface casing to total depth. Run density-CNL with gamma ray-caliper, sonic log with gamma ray-caliper, and FIL and shear wave log (minimum footage 2000 feet) over selected intervals.
6. Assuming gas storage zones of good quality are present as indicated by log analysis, go into hole with 8-3/4-inch bit and drill pipe to total depth to condition mud prior to running production casing. Pull bit laying down drill pipe and drill collars.
7. Run 7-inch O.D. casing as outlined in Item No. I, General Information, through the deepest producing zone as indicated by log analysis. A Baker 7-inch O.D., 8 round thread, Type G circulating differential fillup collar and guide shoe will be run as floating equipment. Rig up Halliburton and cement casing with 50-50 Pozmix "A" cement. Bring cement top behind the 7-inch O.D. casing, 1000 feet above the uppermost producing zone as indicated by log analysis. Circulate 300 barrels of drilling mud prior to beginning cementing operations. Capacity of the 7-inch O.D. casing is approximately 242 barrels. Cement requirements will be based on actual hole size as determined by the caliper portion of the formation density log. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water. Bump plug with 2500 psi and hold for 15 minutes to pressure test casing. Minimum burst pressure of the 7-inch O.D., 23-pound, K-55 casing is 4360 psi.
8. Immediately after cementing operations are completed, land the 7-inch O.D. casing with full weight of casing on slips in the 10-inch 3000 psi casing flange and

record indicator weight. Install NSCo. Type DP-7, 10-inch 3000 psi by 6-inch 3000 psi tubing spool. Pressure test primary and secondary seals to 2500 psi for 5 minutes. Minimum collapse pressure for 7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing is 3280 psi. Install a steel plate on the 6-inch 3000 psi tubing spool flange.

9. Release drilling rig and move off location.
10. Move in and rig up a completion rig.
11. Install a 6-inch 5000 psi hydraulically operated double gate preventer with blind rams on bottom and 2-3/8-inch tubing rams on top.
12. After a WOC time of at least 50 hours, rig up Dresser Atlas and run bond log and perforating formation control log from plugged back depth to top of cement behind the 7-inch O.D. casing.
13. After a WOC time of at least 56 hours, pick up and run a 6-1/4-inch bit on 2-3/8-inch O.D., 4.7-pound, V-55, 8 round thread, EUE tubing to check plugged back depth. Rig up and displace drilling mud out of hole with drip oil. Pull and lay down 2-3/8-inch O.D. tubing.
14. Rig up Dresser Atlas perforating truck and perforate the Dakota storage sand with 2 HPF jumbo jet shots. The interval to be perforated will be chosen after the open hole logging has been reviewed and evaluated.
15. Rig up Dresser Atlas and run a Baker Model FB-1 packer (size 87-40) as follows:
Baker Model FB-1 packer (4.0-inch I.D. through packer).
6 foot Baker millout extension (4.0-inch I.D.).
10 foot Baker seal bore protector (4.0-inch I.D.) changeover.

6 foot 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.

Baker Model "F" non-ported seating nipple (size 2.81).

6 foot 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.

Baker Model "R" non-ported no-go seating nipple (size 2.75).

Set packer so that the bottom of the assembly is 30 feet above the perforations.

Perforations will be chosen after the open-hole logging is completed.

16. Install 4-1/2-inch rams in preventer. Pick up a Baker locator seal assembly and

a Baker Model "L" sliding sleeve and run tubing as follows:

1 NSCo. DP4-H-1 tubing hanger tapped 4-1/2-inch O.D., 8 round thread, LT&C, top and bottom.

4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C pup joints, as required to space out.

Approximately 187 joints 4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing.

Baker Model "L" 4-1/2-inch O.D. sliding sleeve (size 3.812), in open position.

1 6 foot 4-1/2-inch O.D., 11.6-pound, J-55 pup joint.

Baker Model "G" locator seal assembly with 10 feet of seal extensions (I.D. 3.0-inches).

Land tubing in packer with 10,000 pounds compression. Space out and land in wellhead.

17. Install upper portion of wellhead.

18. Swab fluid out of wellbore. Run a short production test.

GENERAL INFORMATION

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

<u>Description</u>	<u>Approximate Gross Measurement (feet)</u>	<u>Availability</u>
	<u>Surface Casing</u>	
9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing	330	Warehouse Stock
	<u>Production Casing</u>	
7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing (Bottom 400 feet will be rough coated)	6,200	Warehouse Stock
	<u>Production Tubing</u>	
4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing	6,200	Warehouse Stock

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

III. Well responsibility - D. L. Reese or G. G. Francis.

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

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

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

<p>1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Gas Storage</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. SLC - 045053 b</p>
<p>2. NAME OF OPERATOR Mountain Fuel Resources, Inc.</p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME -</p>
<p>3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901</p>		<p>7. UNIT AGREEMENT NAME Storage Agreement Clay Basin Gas</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1050' FNL, 1250' FWL NW NW</p>		<p>8. FARM OR LEASE NAME Unit Well</p>
<p>14. PERMIT NO. API No.: 43-009-30033</p>		<p>9. WELL NO. 42-S</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6626.65' GR 6605'</p>		<p>10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage</p>
<p>12. COUNTY OR PARISH Daggett</p>		<p>11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA NW NW 26-3N-24E</p>
<p>13. STATE Utah</p>		

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

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

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

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

TD 6140', PBD 6102', spudded 5-24-77, set 9-5/8" OD, 32.3#, H-40, casing at 293.36' with 180 sacks regular cement with 3% calcium chloride, returned 14 barrels slurry to surface, cement in place 5-25-77, cored, set 7" OD, 23#, K-55, casing at 6071.33' with 650 sacks 50-50 Pozmix treated with 2% gel, cement in place 6-5-77, rig released 6-5-77.

Rigged up completion tools on 6-9-77, perforated the following intervals with 2 jumbo jet shots per foot: 5879-5889', 5901-5927', and 5955-5964', set production packer at 5779', landed 4-1/2" tubing at 5791.62', swabbed and well began flowing, rig released on June 14, 1977.

FINAL REPORT.

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

SIGNED [Signature] TITLE Drilling Superintendent DATE June 22, 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 DUPLICATE*

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

SLC - 045053 b

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.

42-S

10. FIELD AND POOL, OR WILDCAT

Clay Basin Gas Storage

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

NW NW 26-3N-24E

12. COUNTY OR PARISH

Daggett

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other Gas Storage

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

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 1050' FNL, 1250' FWL NW NW

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

API No.: 43-009-30033

15. DATE SPUDDED 5-24-77 16. DATE T.D. REACHED 6-3-77 17. DATE COMPL. (Ready to prod.) 6-14-77 18. ELEVATIONS (DF, R&B, RT, GR, ETC.)* KB 6626.65 GR 6605' 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 6140' 21. PLUG, BACK T.D., MD & TVD 6102' 22. IF MULTIPLE COMPL., HOW MANY* → 23. INTERVALS DRILLED BY ROTARY TOOLS 0-6140' CABLE TOOLS -

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

5879-5889', 5901-5927', 5955-5964' Dakota

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Laterolog, Compensated Densilog

27. WAS WELL CORED

Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
<u>9-5/8"</u>	<u>32.3</u>	<u>293.36'</u>	<u>12-1/4"</u>	<u>180</u>	<u>0</u>
<u>7"</u>	<u>23</u>	<u>6,071.33'</u>	<u>8-1/2"</u>	<u>650</u>	<u>0</u>

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
<u>4-1/2"</u>	<u>5791.62'</u>	<u>5779'</u>

31. PERFORATION RECORD (Interval, size and number)

5879-5889', 5901-5927', 5955-5964', jumbo jet, 2 holes per foot

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

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

Vented while testing.

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs as above, Well Lithology & Well Completion 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: [Signature] TITLE Petroleum Engineering DATE June 22, 1977

INSTRUCTIONS

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

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

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

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

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	GEOLOGIC MARKERS		
				NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				Log tops:		
				Mancos	0'	
				Frontier	5500'	
				Mowry	5712'	
				Dakota	5868'	

COMPLETION REPORT

Well: Clay Basin Unit No. 42-S Date: October 6, 1977

Area: Clay Basin Lease No: SIC 045053 b

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

Location: 1050 feet from North line, 1250 feet from West line
NW 1/4 NW 1/4

Section 26, Township 3 North, Range 24 East

County: Daggett State: Utah

Operator: Mountain Fuel Resources, Inc.

Elevation: KB 6626.65 Gr 6605 Total Depth: Driller 6140 Log 6106

Drilling Commenced: May 24, 1977 Drilling Completed: June 3, 1977

Rig Released: June 5, 1977 Well Completed: June 14, 1977

Sample Tops: (unadjusted)

Log Tops:

Mancos	Surface
Frontier	5500 (1127)
Mowry	5712 (915)
Dakota	5868 (759)

Sample Cuttings: None

Status: Gas storage injection/withdrawal well

Producing Formation: Dakota

Perforations: 5879-5889, 5901-5927, 5955-5964, jumbo jet, 2 holes per foot

Stimulation: None

Production: None reported

Plug Back Depth: 6102

Plugs: None

Hole Size: 12-1/4" to 315; 8-3/4" to 5871; 8-5/8" to 5913; 8-1/2" to 6140

Casing/Tubing: 9-5/8" to 293.36, 7" to 6071.33; 4-1/2" to 5791.62, with packer set at 5779

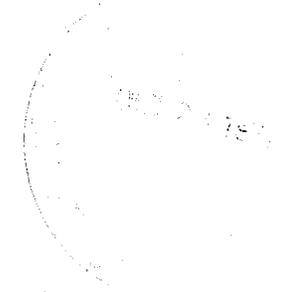
Logging - Mud: None

Mechanical: Dual Laterolog (293-6103), Compensated Densilog (4100-6104)

Contractor: Loffland Brothers Company

Completion Report Prepared by: M. L. Tomac

Remarks: API No. 4300930033



COMPLETION REPORT (cont.)

Well: Unit No. 42-S

Area: Clay Basin

Cored Intervals (recovery): 5871-5913 (42)

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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FIELD Clay Basin STATE Utah COUNTY Daggett SEC. 26 T. 3N R. 24E

COMPANY Mountain Fuel Resources FARM _____ WELL NO. 42-S

LOCATION 1050' FNL, 1250' FWL, NW NW ELEV. KB 6626.65 GR 6605

DRILLING COMMENCED May 24, 1977 COMPLETED June 14, 1977

RIG RELEASED June 5, 1977 TOTAL DEPTH 6140

CASING RECORD 9-5/8" to 293.36; 7" to 6071.33

TUBING RECORD 4-1/2" to 5791.62, with packer set at 5779

PERFORATIONS 5879-5889, 5901-5927, 5955-5964, jumbo jet, 2 holes/ft.

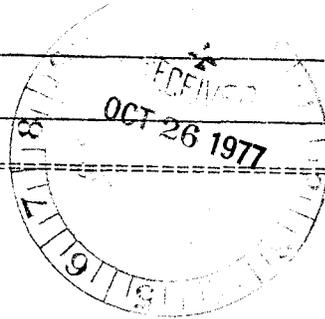
*			
	26		

I. P. GAS None reported OIL None

SANDS _____

SHUT-IN SURFACE PRESSURES _____

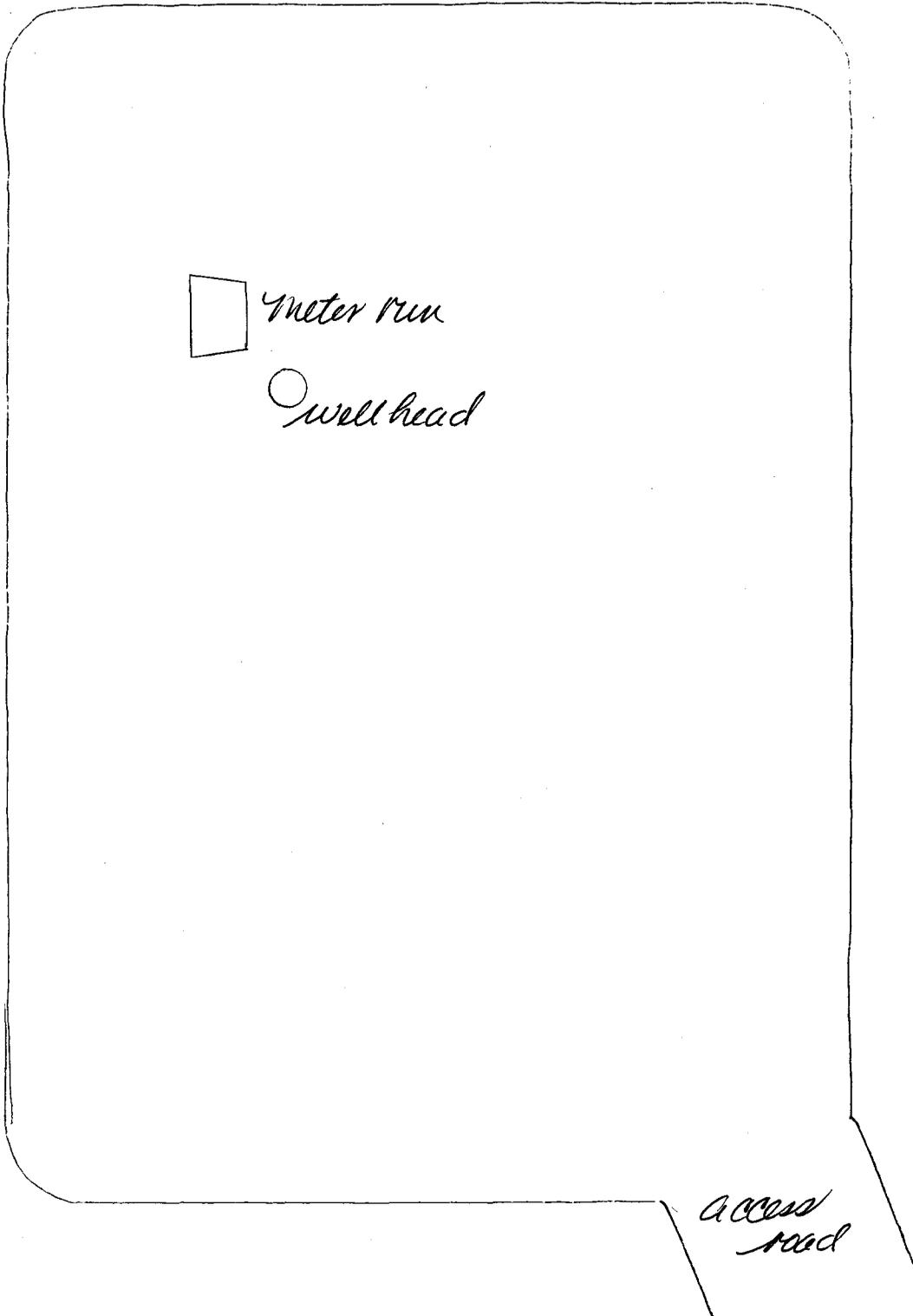
REMARKS _____



	FROM	TO
<u>Core #1</u> Cut 42' Rec. 42'		
Shale, medium dark gray, silty (upper Dakota shale).	5871	5874
Siltstone, medium dark gray to dark gray, shaly throughout.	5874	5877
Sandstone, medium gray, very fine grain to fine grain, fairly well sorted, subangular, subrounded, slightly calcareous and silty.	5877	5879
Sandstone, medium light gray, fine to medium grain, fairly well sorted, subangular, calcareous.	5879	5885
Sandstone, fine grain at top grading downward to coarse grain at base, slightly conglomeratic at base, fairly well sorted to poorly sorted, subangular, calcareous and cross laminated throughout.	5885	5891
Shale, medium gray to medium light gray, bentonitic in part.	5891	5891.5
Sandstone, medium gray to medium light gray, fine grain at top and grading downward to coarse grained, low angular, cross laminated conglomeratic sandstone at base, calcareous.	5891.5	5893.8
Shale, medium gray, soft and bentonitic.	5893.8	5899
Siltstone, medium gray, very faintly laminated in part, very slightly calcareous.	5899	5902
Sandstone, medium gray to medium light brownish gray, fine to coarse grain and conglomeratic in part, fairly well sorted to poorly sorted, subangular to subrounded, calcareous. Interval consists of three distinct fining upward sequences that represent a fluvial depositional environment. Low angular, cross laminated and/or thin (0.1 ft. thick) shale beds are located near the top of each sequence.	5902	5913

Clay Basin U # 42-3 Sec 26, 3N, 24E

Drawn 14 June 88



42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-383 200 SHEETS 5 SQUARE
MADE IN U.S.A.



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.
SL-045053 b

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
Clay Basin

8. FARM OR LEASE NAME
Unit Well

9. WELL NO.
42-S

10. FIELD AND POOL, OR WILDCAT
Clay Basin

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW NW 26-3N-24E

12. COUNTY OR PARISH
Daggett

13. STATE
Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Gas Storage Well

2. NAME OF OPERATOR
Questar Pipeline Company (previously MFS)

3. ADDRESS OF OPERATOR
P.O. Box 11450, Salt Lake City, Utah 84147

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

1050' FNL, 1250' FWL NW NW

14. PERMIT NO.
API No.: 43-009-30033

15. ELEVATIONS (Show whether OF, RT, OR, etc.)
KB 6626.65' GR 6605'

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

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

The purpose of the workover is to run chemical injection valve with 1/4" control line to make continuous methanol injection possible during withdrawal. The program consists of the following:

1. Set plug in "R" nipple.
2. Circulate hole with CaCl₂ water.
3. Pull the 4 1/2" tubing with seal assembly.
4. Rerun tubing with chemical injection mandrel and 1/4" control line.
5. Remove the water from the hole.
6. Pull plug.

This workover is planned to be carried out in August, September or October of 1993.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 6-21-93
BY: Mark Matthews

RECEIVED

JUN 18 1993

DIVISION OF
OIL, GAS & MINING

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

SIGNED [Signature] TITLE Staff Petroleum Engineer DATE June 17, 1993

(This space for Federal or State office use)

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



QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P.O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400 • FAX (801) 530-2570

November 18, 1993

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Dear Gentlemen:

Please find attached "Sundry Notices" for seven wells in Clay Basin. The workover in these wells was started on August 30, 1993 and completed on October 27, 1993.

If you have any questions, please call me at (801) 530-2006.

Sincerely,

Zoltan Bessenyei
Staff Petroleum Engineer

ZB:dc
RE3007

NOV 18 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
SL - 045053 b
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER Gas Storage Well

2. NAME OF OPERATOR
Questar Pipeline Company (previously MFS)

3. ADDRESS OF OPERATOR
P.O. Box 11450, Salt Lake City, UT 84147

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

1050' FNL, 1250' FWL NW NW

14. PERMIT NO. API No.: 43-009-30033
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6626.65' GR 6605'

7. UNIT AGREEMENT NAME
Clay Basin

8. FARM OR LEASE NAME
Unit Well

9. WELL NO.
42-S

10. FIELD AND POOL, OR WILDCAT
Clay Basin

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
NW NW 26-3N-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:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)
PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) Ran chemical injection mandrel
REPAIRING WELL
ALTERING CASING
ABANDONMENT*

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

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

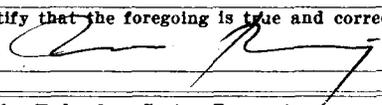
The purpose of the workover was to run chemical injection valve with 1/4" control line to make continuous methanol injection possible during withdrawal. The program consisted of the following:

- 1. Set plug in "R" nipple.
- 2. Circulated hole with CaCl₂ water.
- 3. Pulled the 4 1/2" tubing with seal assembly.
- 4. Ran pipe analysis log.
- 5. Reran tubing with chemical injection mandrel and 1/4" control line.
- 6. Removed the water from the hole.
- 7. Pulled plug.

This workover was carried out in October of 1993.

NOV 22 1993
BUREAU OF LAND MANAGEMENT
DEPARTMENT OF THE INTERIOR
OIL, GAS & MINING

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

SIGNED 

TITLE Staff Petroleum Engineer

DATE November 17, 1993

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



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:

NO wells on ^{grass field} within CA - U^D9712-A - Questar 100%

CA well - RT 5 OR'S - Mtn. Fuel Resources - U#11246 ITA sqmt 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 28 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.

/s/ M. Willis

ACTING 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:sl 3/9/89:1642f

RECEIVED

JAN 28 2004

DIV. OF OIL, GAS & MINING

OPERATOR CHANGE WORKSHEET

ROUTING

1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

X Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective: **3/7/1988**

FROM: (Old Operator): N1070-Wexpro Company PO Box 45360 Salt Lake City, UT 84145-0360 Phone: 1-(801) 534-5267	TO: (New Operator): N7560-Questar Pipeline Company PO Box 11450 Salt Lake City, UT 84147 Phone: 1-(801) 530-2019
--	--

CA No.

Unit:

WELL(S)

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
CLAY BASIN UNIT 39-S	21	030N	240E	4300930030	1025	Federal	GS	A
CLAY BASIN UNIT 48-S	21	030N	240E	4300930044	1025	Federal	GS	A
CLAY BASIN UNIT 50-S	21	030N	240E	4300930046	1025	Federal	GS	A
CLAY BASIN UNIT 51-S	21	030N	240E	4300930047	1025	Federal	GS	A
CLAY BASIN UNIT 58-S	21	030N	240E	4300930054	1025	Federal	GS	A
CLAY BASIN UNIT 60-S	21	030N	240E	4300930056	1025	Federal	GS	A
CLAY BASIN U 11 (RD MURPHY 6-W)	22	030N	240E	4300915635	1025	Federal	GS	A
CLAY BASIN 28-S	22	030N	240E	4300930021	1025	Federal	GS	A
CLAY BASIN UNIT 32-S	22	030N	240E	4300930023	1025	Federal	GS	A
CLAY BASIN UNIT 36-S	22	030N	240E	4300930027	1025	Federal	GS	A
CLAY BASIN UNIT 54-S	22	030N	240E	4300930050	1025	Federal	GS	A
CLAY BASIN U 6 (RD MURPHY 3)	23	030N	240E	4300915630	1025	Federal	GS	A
CLAY BASIN U 10 (1 CL SPARKS)	23	030N	240E	4300915634	1025	Federal	GS	A
CLAY BASIN UNIT 29-S	23	030N	240E	4300930020	1025	Federal	GS	A
CLAY BASIN UNIT 31-S	23	030N	240E	4300930022	1025	Federal	GS	A
CLAY BASIN UNIT 44-S	23	030N	240E	4300930040	1025	Federal	GS	A
CLAY BASIN UNIT 45-S	23	030N	240E	4300930041	1025	Federal	GS	A
CLAY BASIN UNIT 57-S	24	030N	240E	4300930053	1025	Federal	GS	A
CLAY BASIN UNIT 41-S	26	030N	240E	4300930032	1025	Federal	GS	A
CLAY BASIN UNIT 42-S	26	030N	240E	4300930033	1025	Federal	GS	A
CLAY BASIN UNIT 43-S	26	030N	240E	4300930039	1025	Federal	GS	A

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/13/2004
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/13/2004
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/14/2004
- Is the new operator registered in the State of Utah: YES Business Number: 649172-0142
- If **NO**, the operator was contacted contacted on: _____

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	Twnshp	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