Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

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

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: SL-045049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Gas Storage SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME: Clay Basin ~~Gas Storage Agreement~~

8. FARM OR LEASE NAME: Unit

2. NAME OF OPERATOR: Wexpro Company

9. WELL NO.: 56-S

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

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE NE 346' FNL, 363' FEL
At proposed prod. zone:

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 26-3N-24E., 6th PM

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 41 miles south of Rock Springs, Wyoming

12. COUNTY OR PARISH: Daggett

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 346'

16. NO. OF ACRES IN LEASE: 1440

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.: 1030' 41-S

19. PROPOSED DEPTH: 6435

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 6779'

22. APPROX. DATE WORK WILL START*: Upon approval

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|---|---|---|---|---|
| 17-1/2 | 13-3/8 | 54.5 | 320 | 385 sx reg G w/3% CaCl |
| 8-3/4 | 7 * | 23 | 6,435 | To be determined |
| | | | | |

* Will have 9-5/8", 36#, landed at 280' on top of the 7" tapered casing.

Refer to Master Drilling Plan.

2. FORMATION TOPS: Frontier at 5790', Mowry at 5975', Dakota at 6155', and Cedar Mountain-Morrison at 6355'.

8. LOGGING, TESTING AND CORING: DLL and GR-Caliper from surface to TD.
FDC/CNL from 4435' to TD.

No DST's, 120' core in Dakota 6150-6270'.

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 Drilling Superintendent DATE July 9, 1982

(This space for Federal or State office use)

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

PERMIT NO. APPROVAL DATE 7/14/82

APPROVED BY [signature] TITLE [signature] DATE 7/14/82

CONDITIONS OF APPROVAL, IF ANY:

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
JUL 14 1982
SALT LAKE CITY, UTAH

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

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER Gas Storage SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Wexpro Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE NE 346' FNL, 363' FEL
At proposed prod. zone:

5. LEASE DESIGNATION AND SERIAL NO.: SL-045049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: Clay Basin Gas Storage Agreement

8. FARM OR LEASE NAME: Unit

9. WELL NO.: 56-S

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

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 26-3N-24E., ~~6th PM~~ SLB

12. COUNTY OR PARISH: Daggett

13. STATE: Utah

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): 346'

16. NO. OF ACRES IN LEASE: 1440

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.: 1030' 41-S

19. PROPOSED DEPTH: 6435

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 6779'

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| 17-1/2 | 13-3/8 | 54.5 | 320 | 385 sx reg G w/3% CaCl |
| 8-3/4 | 7 * | 23 | 6,435 | To be determined |

* Will have 9-5/8", 36#, landed at 280' on top of the 7" tapered casing.

Refer to Master Drilling Plan.

2. FORMATION TOPS: Frontier at 5790', Mowry at 5975', Dakota at 6155', and Cedar Mountain-Morrison at 6355'.

8. LOGGING, TESTING AND CORING: DLL and GR-Caliper from surface to TD.
FDC/CNL from 4435' to TD.

No DST's, 120' core in Dakota 6150-6270'.

Subject to the Master Surface Use Plan filed in the Clay Basin Unit

24. 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.

SIGNED: C. J. Mason TITLE: Drilling Superintendent DATE: July 9, 1982

(This space for Federal or State office use)

PERMIT NO.: APPROVAL DATE:

APPROVED BY: Brad Caffrey TITLE: FOR E. W. GUYNN DISTRICT OIL & GAS SUPERVISOR DATE: AUG 2 1982

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4-A DATED 1/1/80

State Oil + Gas

# CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. Onsite Requirements Other than the Items 1.-7.

Identification No. 440-82

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
JUL 19 1982
SALT LAKE CITY, UTAH

United States Department of the Interior
Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104-3884

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Wexpro Company

Project Type Gas Storage Well

Project Location 346' FNL 363' FEL Section 26, T 3N, R 24E

Well No. 56 - 5 Lease No. SL-045049

Date Project Submitted July 14, 1982

FIELD INSPECTION Date June 7, 1982

Field Inspection Participants See attached list

Related Environmental Documents: Environmental Impact Analysis, A Proposed Gas Storage Project Mountain Fuel Resources, Inc. - USGS, Rock Springs and BLM, Vernal 1976
FAR Clay Basin Gas Storage Project, BLM, Vernal 1976

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

July 16, 1982
Date Prepared

Gregory Darlington
Environmental Scientist

I concur

JUL 21 1982
Date

W P Martin
District Supervisor

FOR E. W. GUYNN
DISTRICT OIL & GAS SUPERVISOR

Proposed Actions:

Wexpro plans to drill the # 56-5 gas storage well, at 6435' depth into the Dakota formation. A new access road of 1300' length will be required to reach the location. The first 1000' of this will be shared with proposed well # 57-5. The shared access includes one required cattleguard. A pad 135' by 325' and a reserve pit 75' by 100' will be constructed on the requested 2.2 acre area of operations at the proposed location.

Recommended Approval Conditions:

The operator agrees to accept and adhere to the following conditions in addition to the plans outlined in the APD:

1. BLM stipulations
2. Lease stipulations
3. Provide adequate logs for the identification of other minerals as requested in the Mineral Evaluation Report and Mining Report.

FIELD NOTES SHEET

Date of Field Inspection: June 7, 1982

Well No.: 56-5

Lease No.: SL-045049

Approve Location: ✓ As requested on APD

Approve Access Road: ✓

Modify Location or Access Road: Moved 129' N 238' West back down ridge to a suitable place. At the onsite the move was estimated as 100' instead it turned out to be 300'. 1000' of shared access with #57
300' other access.

Evaluation of Criteria for Categorical Exclusion

1. Public Health and Safety
2. Unique Characteristics
3. Environmentally Controversial Items
4. Uncertain and Unknown Risks
5. Establishes Precedents
6. Cumulatively Significant
7. National Register Historic Places
8. Endangered/Threatened Species
9. Violate Federal, State, Local, or Tribal Laws

If this project is not eligible for Categorical Exclusion circle the numbers of the above criteria requiring the preparation of an EA.

Comments and special conditions of approval discussed at onsite: (include local topography) Moved further down ridge than the 100 feet agreed to at the onsite 129' North 238' West. Looks like they found a reasonably good place for the pit on that narrow ridge One cattleguard will be required on the access road on that portion shared with #57.

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

| Criteria 516 DM 2.3.A | Federal/State Agency: Correspondence (date) | Federal/State Agency: Phone check (date) | Federal/State Agency: Meeting (date) | Local and private correspondence (date) | Previous NEPA | Other studies and reports | Staff expertise | Onsite inspection (date) | Other |
|---|---|---|---|---|---|---|---|---|---|
| Public health and safety | | | | | | | 1,2,4,6 | June 7 1982 | |
| Unique characteristics | | | | | | | 1,2,4,6 | | |
| Environmentally controversial | | | | | | | 1,2,4,6 | | |
| Uncertain and unknown risks | | | | | | | 1,2,4,6 | | |
| Establishes precedents | | | | | | | 1,2,4,6 | | |
| Cumulatively significant | | | | | | | 1,2,4,6 | | |
| National Register historic places | | | | | | | 1,6 | | |
| Endangered/ threatened species | | | | | | | 1,6 | | |
| Violate Federal, State, local, tribal law | | | | | | | 1,2,4,6 | | |

Field Inspection Participants at the
June 7, 1982 Wexpro Onsites in Clay Basin

Greg Darlington - MMS, Vernal
Max McCoy - MMS, Vernal
Ralph Hefft - BLM, Vernal
Keith Chapman - BLM, Vernal
Jennifer Head - Wexpro Drilling
Albert Kaiser - Wexpro Construction
Larry Bodyfelt - Wexpro Surveying
Ron Noble - Mt. Fuel Supply
Mr. DeBernardi - Mt. Fuel Supply
Fred Hanking - Wexpro Surveying

About Five other Mt. Fuel Supply employees also accompanied us to most of the locations which were looked at that day.

United States Department of the Interior

MINERALS MANAGEMENT SERVICE
OIL & GAS OPERATIONS
RECEIVED
JUL 19 1982
SALT LAKE CITY, UTAH

IN REPLY REFER TO
T & R
U-801

BUREAU OF LAND MANAGEMENT
VERNAL DISTRICT OFFICE
170 South 500 East
Vernal, Utah 84078

July 15, 1982

Ed Guynn, District Engineer
Mineral Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Re: WEXPRO Company
Clay Basin Gas Storage Wells
Wells: 43, 44, 45, 46, 47, 49,
52, 54, 55, 56, 57, 59.

Dear Mr. Guynn:

This is to inform you that we have received from WEXPRO their Master Plan of Development for the above referenced gas storage wells in the Clay Basin area of Daggett County, Utah. We are in concurrence with this master plan with one change; the access road to well #46 will enter the location perpendicular to the location at the northeast corner of the pad. We have discussed this with Jennifer Head of WEXPRO and she has agreed to this change.

Should there be any questions, your BLM contact is Gary Slagel.

Sincerely,

Ralph J. Heft
Area Manager
Diamond Mountain Resource Area

cc: MMS, Vernal
WEXPRO, Rock Springs

Master 10-Point Drilling Plan
Clay Basin Unit Gas Storage
Wells No. 43-S through 60-S
T.3N., R.24E.
Daggett County, Utah

1. SURFACE FORMATION: Mancos Shale.

2. FORMATION TOPS: Refer to individual Application for Permit to Drill.

3. WATER, OIL, GAS or MINERAL BEARING FORMATIONS:

The gas storage reservoir is the Dakota. Natural gas is expected in the Frontier. No water or mineral bearing formations are present.

4. CASING PROGRAM:

| Footage | Size | Grade | Weight | Condition | Thread | Cement |
|---|---|---|---|---|---|---|
| 320 | 13-3/8 | K-55 | 54.5 | New | 8rd, ST&C | 385 sx reg. G w/3% CaCl |
| 280 | 9-5/8 | K-55 | 36 | New | 8rd, ST&C | To be determined |
| TD | 7 | K-55 | 23 | New | 8rd, LT&C | To be determined |

5. PRESSURE CONTROL EQUIPMENT: (see attached diagram)
Operator's minimum specifications for pressure control equipment requires a 12-inch 3000 psi double gate blowout preventer. Surface casing and all preventer rams will be pressure tested to 1900 psi for 15 minutes using rig pump and mud. BOP's will be checked daily as to mechanical operating condition and will be tested by rig equipment after each string of casing is run. All ram type preventers will have hand wheels which will be operative at the time the preventers are installed.

6. MUD PROGRAM: Fresh water gel base mud from surface to TD. Sufficient mud materials to maintain mud properties, control lost circulation and to contain blowout will be available at the wellsite.

7. AUXILIARY EQUIPMENT:
   a) Manually operated kelly cock
   b) No floats at bit
   c) Monitoring of mud system will be visual
   d) Full opening floor valve manually operated

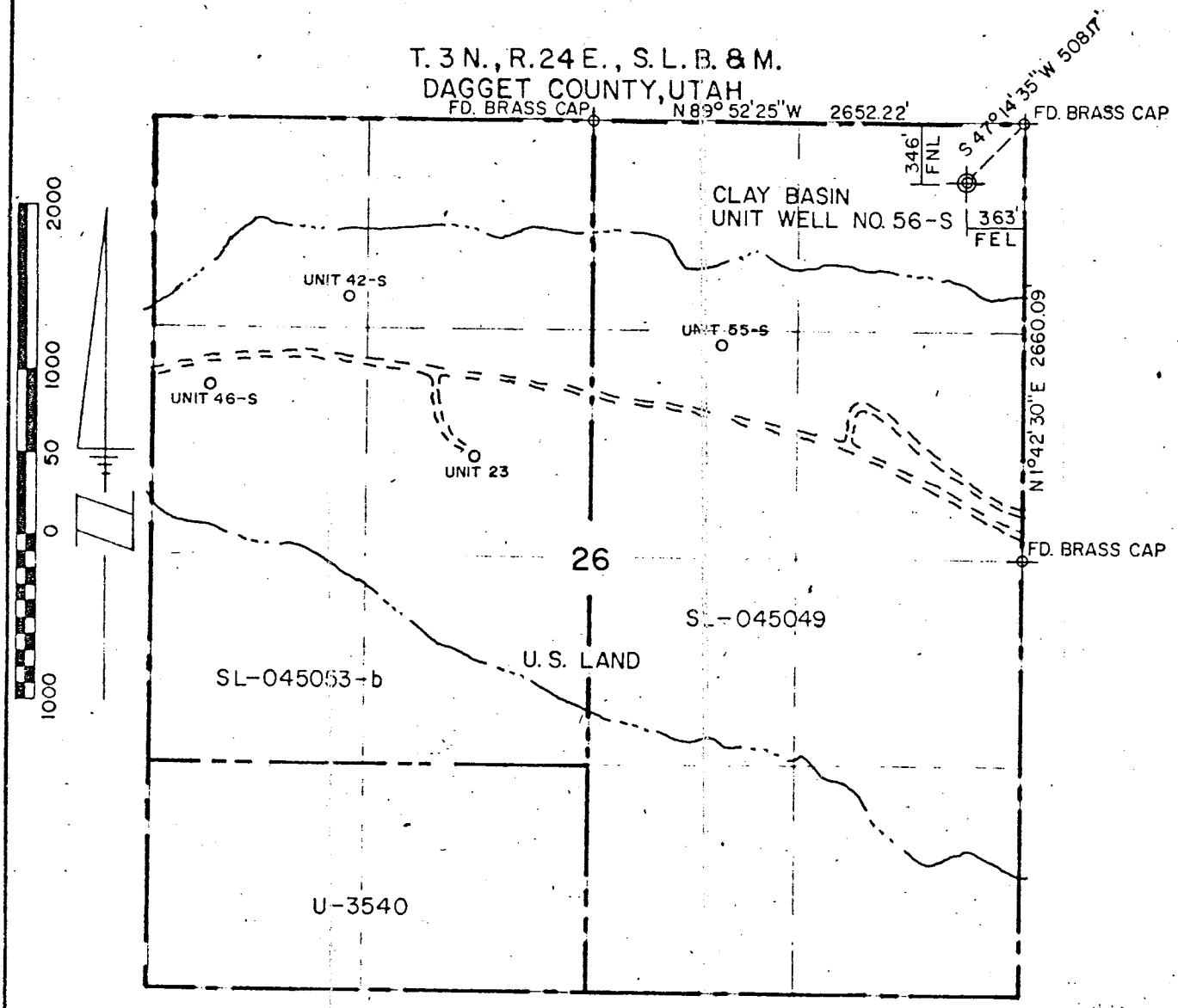
8. LOGGING, TESTING, AND CORING: Refer to individual Application for Permit to Drill.

9. ABNORMAL PRESSURE AND TEMPERATURE: None expected; BHT of 135°F anticipated.

10. ANTICIPATED STARTING DATE: Upon approval

DURATION OF OPERATION: Drilling time 12 days each

Completion 4 days each




LOCATION PLAN
SCALE 1" = 1000'

BASIS OF BEARING: COMPANY SURVEY COORDINATE NETWORK

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.

LEGEND

- ⊕ ℄ Well
- ⊕ Stone Corner
- ⊕ Pipe Corner

Larry G. Bodyfelt
SURVEYOR
LARRY G. BODYFELT WYO. RLS NO. 3507
PRACTICING IN UTAH PER TITLE 58 CHAPTER 22-21

| ENGINEERING RECORD | |
|---|---|
| SURVEYED BY | F.H. 6/1/82 |
| REFERENCES | G.L.O. PLAT ☒ U.S.G.S. QUAD. MAP ☒ |
| LOCATION DATA | |
| FIELD | CLAY BASIN |
| LOCATION: NE 1/4, NE 1/4 SEC. 26, T. 3 N., R. 24 E., S.L.B. & M. 346' FNL 363' FEL | |
| DAGGET COUNTY, UTAH | |
| WELL ELEVATION: 6779 AS GRADED - DETERMINED BY EDM/TRIGONOMETRIC LEVELS FROM COMPANY ESTABLISHED BENCHMARK | |

WEXPRO COMPANY

CERTIFIED WELL LOCATION AND WELL SITE PLAN

CLAY BASIN UNIT WELL NO. 56-S

| | |
|---|---|
| DRAWN 6/7/82 KVB | SCALE: 1" = 1000' |
| CHECKED CRW | DRWG. NO. M-20101 |
| APPROVED | |

# MOUNTAIN FUEL SUPPLY COMPANY

## 3000 psi BLOWOUT PREVENTION EQUIPMENT

CHECKLIST 3000psi EQUIPMENT

Well _____ _____ County

Contractor and operator to furnish items checked (x)

| | STANDARD STACK REQUIREMENTS | | | | | |
|---|---|---|---|---|---|---|
| No. | Item | Nominal | ID TD | Type | Furn. by oper. | Contr. |
| 2 | Drilling Nipple | | | | | |
| | Flowline | | | | | |
| 3 | Fill up line | 2" | | | | |
| 4 | Annular Preventor | | | Hydril Cameron Shaffer | | |
| 5 | Two single or one dual hyd. oper. ram | | | U. WB. F. LWS | | |
| 6 | Drilling Spool with 2" and 3" outlets | | | Forged | | |
| 7 | As Alternate to (6) run all fill lines from outlets to this ram | | | | | |
| 8 | Valve Gate | | 3 1/8 | | | |
| 9 | Valve-Hydraulically operated gate | | 3 1/8 | | | |
| 10 | Choke line | | 2.9 | | | |
| 11 | Gate Valve | | 2 1/16 | | | |
| 12 | Check Valve | | 2 1/16 | | | |
| 13 | Kill line | 2" | | | | |
| 14 | Valve-Gate | | 2 1/16 | | | |
| 15 | Kill line to Pump | 2" | | | | |
| 16 | Casing Head | | | | | |
| 17 | Valves Gate___ Plug___ | | 3 1/8 | | | |
| 18 | Compound Pressure Gauge | | | | | |
| | Wear Bushing | | | | | |

| | STANDARD CHOKE AND KILL REQUIREMENTS | | | | | |
|---|---|---|---|---|---|---|
| No | Item | Nominal | ID | Type | Furn. by oper. | Contr. |
| 19 | Valve Gate___ Plug___ | | 3 | | | |
| 20 | Compound Pressure | | | | | |
| 21 | Cross [?] | | | | | |
| 22 | Valve Gate | | 3 1/8 | | | |
| 23 | Valve Gate | | 3 1/8 | | | |
| 24 | Valve Gate | | 3 1/8 | | | |
| 25 | Choke line H-2 or equivalent | 3 | 2" | | | |
| 26 | Choke line H-2 or equivalent | 3 | 2" | | | |
| 27 | Line to Separator | | 2.9" | | | |
| 28 | Line to separator | | 2.9" | | | |
| 29 | Valve Gate | 1 | 3 1/8 | | | |
| 30 | Valves Gate | 1 | 3 1/8 | | | |
| 31 | Line to Res. Pit | 1 | 2.9" | | | |
| | | 1 | | | | |
| | | 1 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 37 | Line to Res. | | 2.9" | | | |
| 38 | Line to Res. Pit | | 2.9" | | | |

| SPECIAL CHOKE AND KILL REQUIREMENTS | | | | |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| SPECIAL STACK REQUIREMENTS | | | | |
|---|---|---|---|---|
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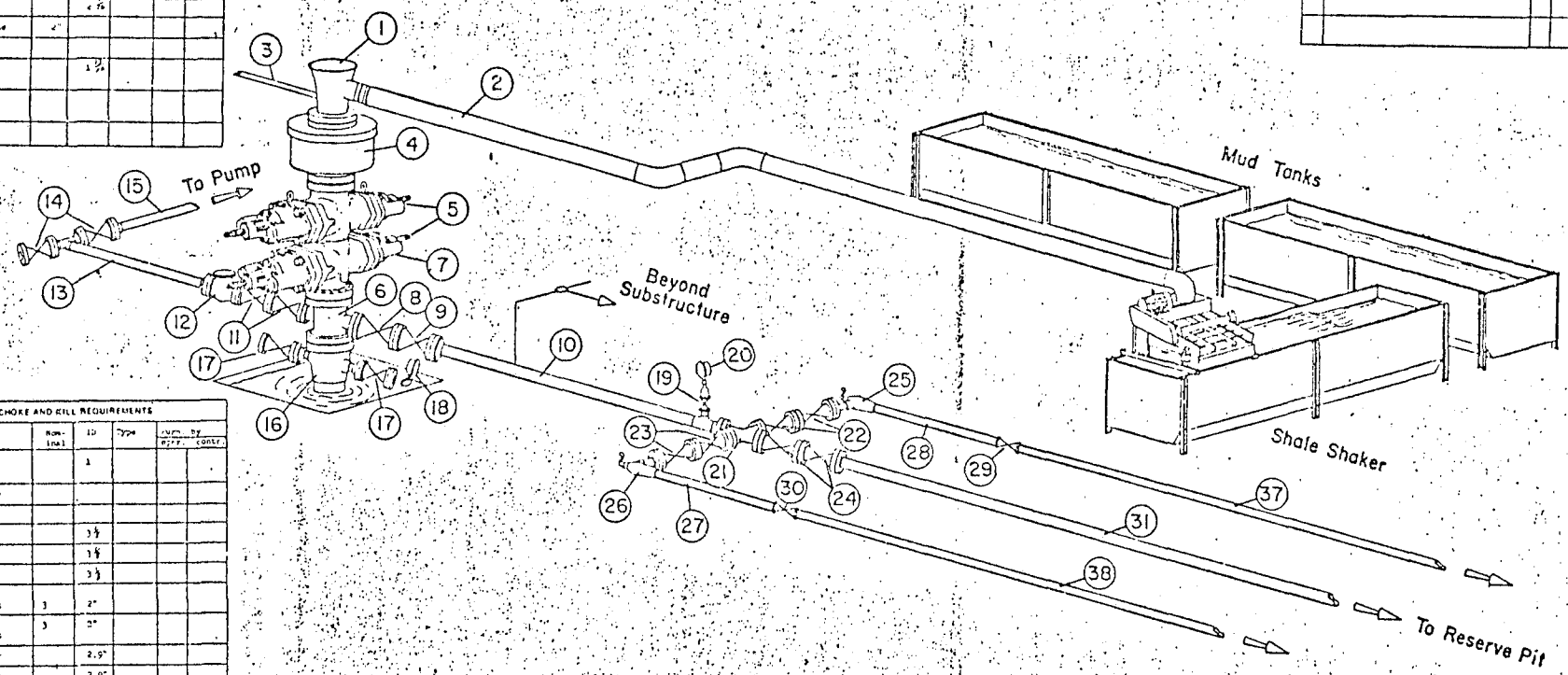

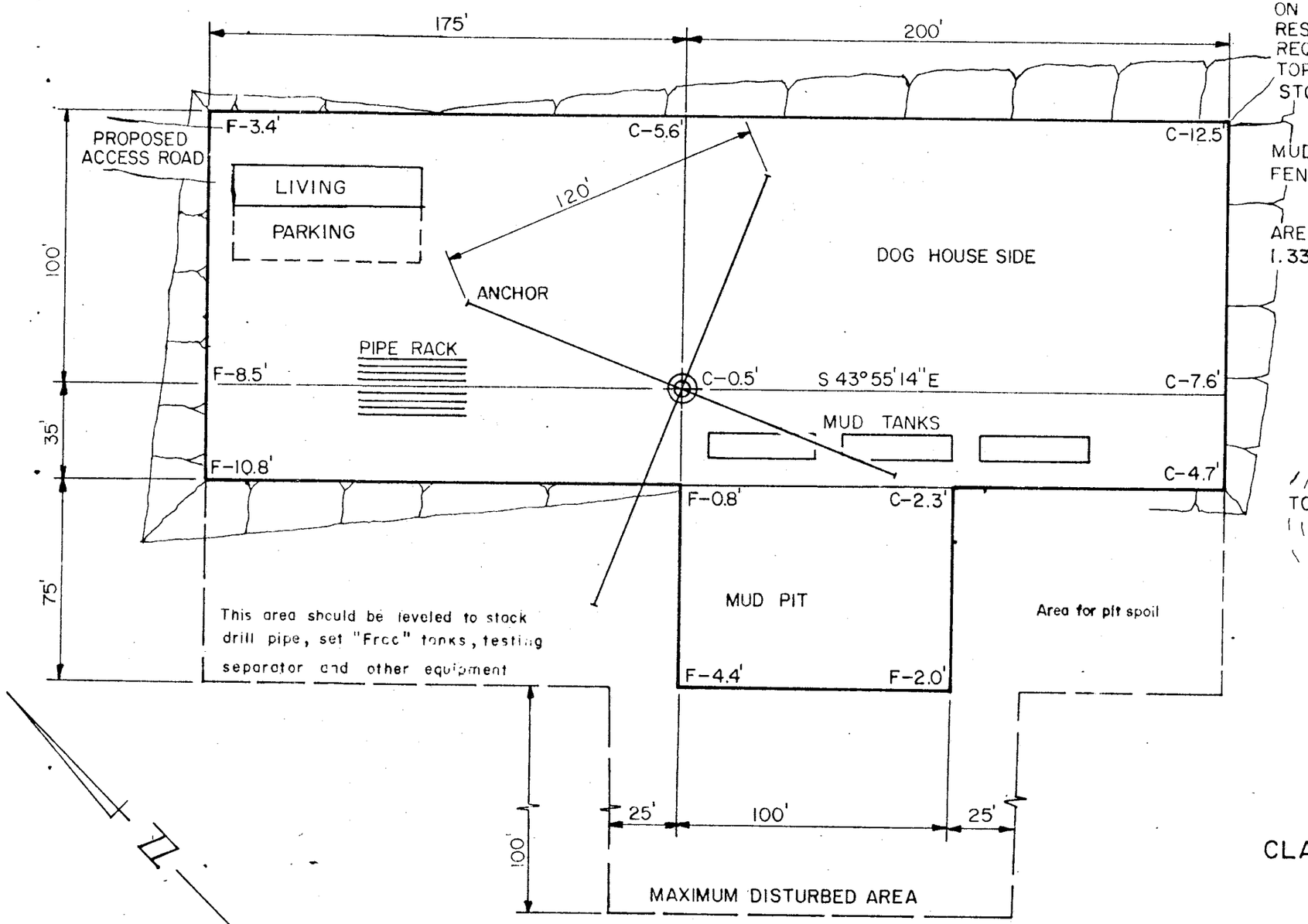


AT SITES WHERE TOPSOIL IS PRESENT SAME IS TO BE REMOVED AND STORED ON THE ADJACENT LAND FOR RESTORATION AT THE SITE WHEN REQUIRED. 2018 CU. YDS. OR THE TOP 6" OF TOPSOIL IS TO BE STOCKPILED.

MUD PITS ARE TO BE FENCED & UNLINED.

AREA FOR WELL LOCATION IS 1.33 ACRES.

REFERENCE DRAWINGS ARE: M-20101

TOPSOIL STOCKPILE

# CLAY BASIN UNIT WELL NO. 56-S

DRWG. NO. M-20102

6/7/82 KVB

** FILE NOTATIONS **

DATE: July 21 1983

OPERATOR: Texaco Company

WELL NO: Clay Basin Unit #56-S

Location: Sec. 26 T. 3N R. 24E County: Daggett

File Prepared: ✓ Entered on N.I.D: ☐

Card Indexed: ☐ Completion Sheet: ☐

API Number 43-009-30052

CHECKED BY:

Petroleum Engineer:

Director:

Administrative Aide: Lisa Storage

APPROVAL LETTER:

Bond Required: ✓ Survey Plat Required: ☐

Order No. O.K. Rule C-3 ☐

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation Fed. Plotted on Map ☐

Approval Letter Written ☐

Hot Line ✓ P.I. ✓

# NOTICE OF SPUD

Company: WEXPRO

Caller: Paul Zibatch

Phone: 307 382 9791

Well Number: 56-S

Location: NENE 26-3N-24E

County: Daggett State: Utah

Lease Number: SL-045049

Lease Expiration Date:

Unit Name (If Applicable): Clay Basin

Date & Time Spudded: 9-20-82 4:30 a.m.

Dry Hole Spudder/Rotary: Rotary

Details of Spud (Hole, Casing, Cement, etc.) 445' and drilling

Rotary Rig Name & Number: All Western Rig 2

Approximate Date Rotary Moves In: --

## FOLLOW WITH SUNDRY NOTICE

Call Received By: Al Johansson

Date: September 20, 1982

MER
✓ STATE O&G
VERNAL
FILE

DIVISION OF OIL, GAS AND MINING

## SPUDDING INFORMATION

NAME OF COMPANY: WEXPRO

WELL NAME: Clay Basin Unit #56-S

SECTION NENE 26 TOWNSHIP 3 N RANGE 24 E COUNTY Daggett

DRILLING CONTRACTOR All Western

RIG # 2

SPUDDED: DATE 9-20-82

TIME 4:30 AM

HOW Rotary

DRILLING WILL COMMENCE

REPORTED BY Paul Zubatch

TELEPHONE # 307-382-9791

DATE 9-20-82 SIGNED RJF

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# 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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other Gas Storage
2. NAME OF OPERATOR: Wexpro Company
3. ADDRESS OF OPERATOR: P. O. Box 458, Rock Springs, Wyoming 82901
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
   AT SURFACE: NE NE 346' FNL, 363' FEL
   AT TOP PROD. INTERVAL:
   AT TOTAL DEPTH:
5. LEASE: SL - 045049
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -
7. UNIT AGREEMENT NAME: Clay Basin Gas Storage Agreement
8. FARM OR LEASE NAME: Unit
9. WELL NO.: 56-S
10. FIELD OR WILDCAT NAME: Clay Basin - Dakota
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 26-3N-24E., SLB&M
12. COUNTY OR PARISH: Daggett
13. STATE: Utah
14. API NO.: 43-009-30052
15. ELEVATIONS (SHOW DF, KDB, AND WD): KB 6792.30' GR 6779'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| REQUEST FOR APPROVAL TO: | | SUBSEQUENT REPORT OF: |
|---|---|---|
| TEST WATER SHUT-OFF | ☐ | ☐ |
| FRACTURE TREAT | ☐ | ☐ |
| SHOOT OR ACIDIZE | ☐ | ☐ |
| REPAIR WELL | ☐ | ☐ |
| PULL OR ALTER CASING | ☐ | ☐ |
| MULTIPLE COMPLETE | ☐ | ☐ |
| CHANGE ZONES | ☐ | ☐ |
| ABANDON* | ☐ | ☐ |
| (other) Supplementary History | | X |

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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 6355', rig released October 5, 1982, waiting on completion tools.

Spudded September 20, 1982 at 4:30 a.m., landed 13-3/8" OD, 54.5#, K-55, 8rd thd, ST&C casing at 331.97' KBM, set with 385 sacks class G cement with 2% calcium chloride and 1/4# flocele per sack, left 10' of cement in casing, cement in place at 2:30 p.m. on September 7, 1982.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED A. J. Maier TITLE Drilling Supt. DATE October 5, 1982

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

# 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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other Gas Storage

2. NAME OF OPERATOR
Wexpro Company

3. ADDRESS OF OPERATOR
P. O. Box 458, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE NE 346' FNL, 363' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
SL - 045049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
-

7. UNIT AGREEMENT NAME
Clay Basin Gas Storage Agreement

8. FARM OR LEASE NAME
Unit

9. WELL NO.
56-S

10. FIELD OR WILDCAT NAME
Clay Basin - Dakota

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

12. COUNTY OR PARISH
Daggett

13. STATE
Utah

14. API NO.
43-009-30052

15. ELEVATIONS (SHOW DF, KDB, AND WD)
KB 6792.30' GR 6779'

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| REQUEST FOR APPROVAL TO: | | SUBSEQUENT REPORT OF: |
|---|---|---|
| TEST WATER SHUT-OFF | ☐ | ☐ |
| FRACTURE TREAT | ☐ | ☐ |
| SHOOT OR ACIDIZE | ☐ | ☐ |
| REPAIR WELL | ☐ | ☐ |
| PULL OR ALTER CASING | ☐ | ☐ |
| MULTIPLE COMPLETE | ☐ | ☐ |
| CHANGE ZONES | ☐ | ☐ |
| ABANDON* | ☐ | ☐ |
| (other) Supplementary History | | X |

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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 6355', PBD 6321', well shut in.

Rigged up work over, perforated the following intervals with 2 holes per foot: 6094-6102', 6108-6126', 6167-6172', 6174-6182', set packer at 5980', landed 4-1/2" tubing at 5993.08'.
Final report.

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OCT 28 1982
DIVISION OF
OIL, GAS & MINING

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED A. J. Maier TITLE Drilling Supt. DATE October 25, 1982

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-68)

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 ☐ 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: Wexpro Company

3. ADDRESS OF OPERATOR: P. O. Box 458, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: NE NE 346' FNL, 363' FEL
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: SL - 045049

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: -

7. UNIT AGREEMENT NAME: Clay Basin Gas Storage

8. FARM OR LEASE NAME: Unit

9. WELL NO.: 56-S

10. FIELD AND POOL, OR WILDCAT: Clay Basin - Dakota

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 26-3N-24E., SLB&M

API #: 43-009-30052

14. PERMIT NO.: - DATE ISSUED: -

12. COUNTY OR PARISH: Daggett 13. STATE: Utah

15. DATE SPUDDED: 9-20-82 16. DATE T.D. REACHED: 10-1-82 17. DATE COMPL. (*Ready to prod.*): 10-13-82 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*: KB 6792.30' GR 6779' 19. ELEV. CASINGHEAD: -

20. TOTAL DEPTH, MD & TVD: 6355 21. PLUG, BACK T.D., MD & TVD: 6321 22. IF MULTIPLE COMPL., HOW MANY*: 23. INTERVALS DRILLED BY: → ROTARY TOOLS: 0-6355 CABLE TOOLS: -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
6094-6102', 6108-6126', 6167-6172', 6174-6182', - Dakota

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL, CNL/FDC

27. WAS WELL CORED: Yes

28. CASING RECORD (*Report all strings set in well*)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|---|---|---|---|---|---|
| 13-3/8 | 54.5 | 33[illegible].97 | 17-1/2 | 385 | 0 |
| 7 & 9-5/8 | 23 & 36 | 635[illegible].08 | 8-3/4 | 405 | 0 |

29. LINER RECORD

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

30. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|
| 4-1/2 | 5993.08 | 5980 |

31. PERFORATION RECORD (*Interval, size and number*)
6094-6102', 6108-6126', 6167-6172', 6174-6182', 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*): Gas storage WELL STATUS (*Producing or shut-in*): Shut in

| DATE OF TEST | HOURS TESTED | CHOKE SIZE | PROD'N. FOR TEST PERIOD → | OIL—BBL. | GAS—MCF. | WATER—BBL. | GAS-OIL RATIO |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| FLOW. TUBING PRESS. | CASING PRESSURE | CALCULATED 24-HOUR RATE → | OIL—BBL. | GAS—MCF. | WATER—BBL. | OIL GRAVITY-API (CORR.) |
|---|---|---|---|---|---|---|
| | | | | | | |

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS
Logs as above

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Thomas Cohn TITLE Director, Petroleum Engrg DATE Oct 25, 1982

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
**Item 29:** *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|---|---|---|---|
| | | | |

38. GEOLOGIC MARKERS

| NAME | TOP MEAS. DEPTH | TOP TRUE VERT. DEPTH |
|---|---|---|
| Log tops: | | |
| Mancos | 0' | |
| Frontier | 5,708 | |
| Mowry | 5,902 | |
| Dakota | 6,091 | |
| Morrison | 6,218' | |

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

# TerraTek Core Services, Inc.

MOUNTAIN FUEL RESOURCES

No. 56S Well
Dagget County, Utah

TTCS File No. 244

| Core No. | Interval | Formation |
|---|---|---|
| 1 | 6070 - 6092 | Maury |
| 2 | 6092 - 6152 | Dakota |
| 3 | 6152 - 6178 | Dakota |
| 4 | 6178 - 6210 | Dakota |

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NOV 22 1982
DIVISION OF
OIL, GAS & MINING

• 360 Wakara Way • Salt Lake City, Utah 84108 • (801) 584-2480
• 920 Central Avenue • Suite #2 • Billings, Montana 59102 • (406) 256-0371

# TerraTek Core Services, Inc.

October 28, 1982

Mountain Fuel Resources
P.O. Box 11368
Salt Lake City, Utah 84139

Attn: Mr. Roger Fallon

Subject: Core Analysis Data; No. 56S Well; Dagget County, Utah; TTCS File No. 244

Gentlemen:

Diamond coring equipment and water base mud were used to obtain 4.0- inch diameter cores from the formations and intervals shown on the preceeding page. A representative of Terra Tek Core Services received the cores at the wellsite where they were preserved in plastic polytubing and transported to our Salt Lake City laboratory for routine retort analysis.

A core gamma log was recorded and along with permeability, porosity, grain density and fluid saturation plots is presented on the enclosed Teklog.

Residual fluid removal was accomplished by the controlled temperature retort technique. Porosities were determined by Boyle's law (helium) grain volumes and Archimedes(mercury) bulk volumes on one-inch diameter plug samples. Permeabilities to nitrogen were measured on these same plug samples using an orifice manometer and traveling miniscus to monitor downstream flow. As requested a few scattered vertical permeabilities were measured in the more shaley intervals.

The data resulting from this analysis is tabulated on pages 1 through 4. Following this is a summary reflecting average data by zones based on permeability, porosity, and fluid saturation variations. It should be noted that in zone No. 2 (Samples 5 through 8) the measured oil saturations appear to be kerogen extracted at high retort temperatures rather than mobile hydrocarbons.

• 360 Wakara Way • Salt Lake City, Utah 84108 • (801) 584-2480
• 920 Central Avenue • Suite #2 • Billings, Montana 59102 • (406) 256-0371

The cores are temporarily being stored in our Salt Lake City warehouse awaiting additional instructions.

We sincerely appreciate this opportunity to be of service.

Very truly yours,

Jack R. Good

Jack R. Good
Laboratory Director

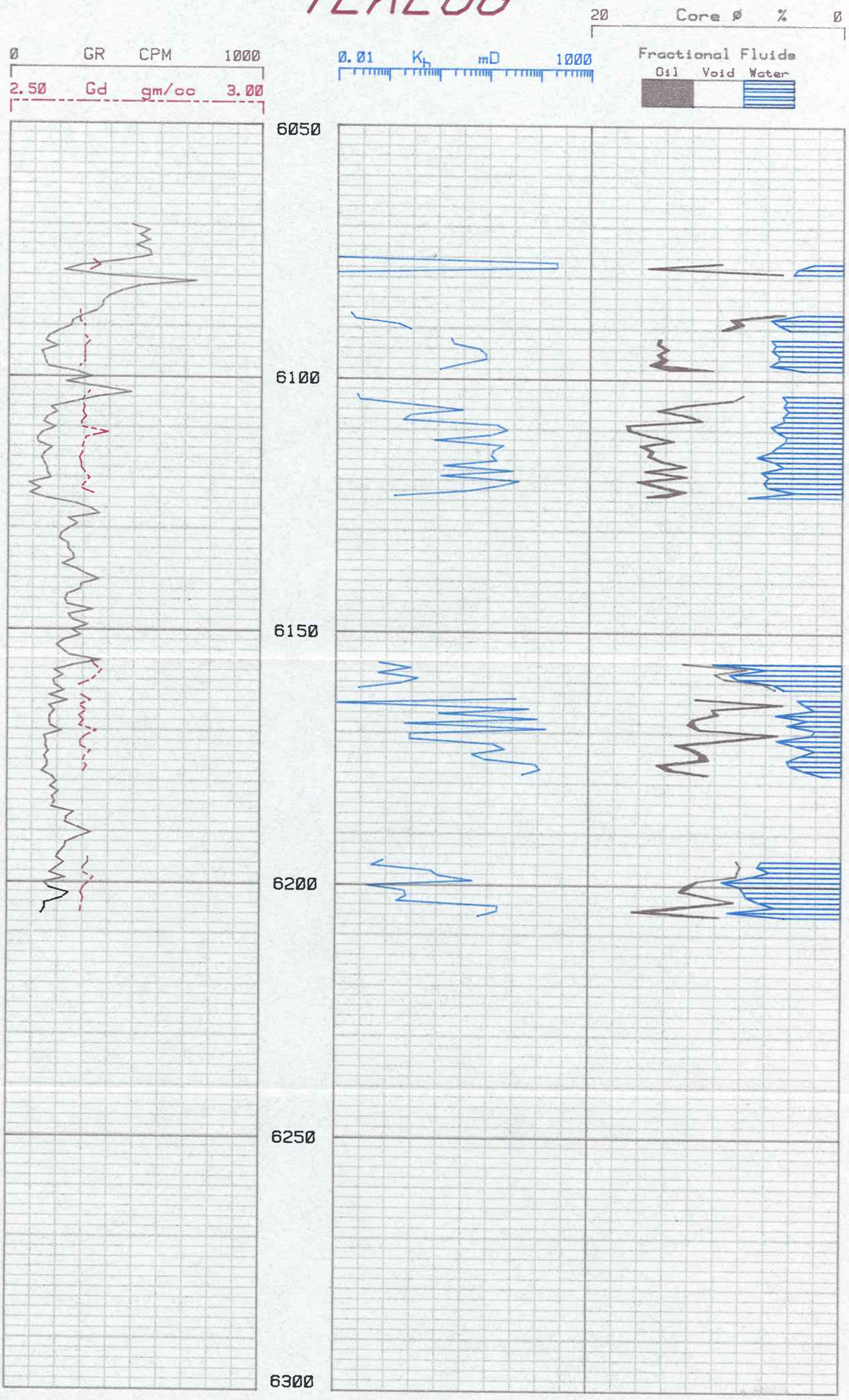
JRG:lw

TERRA TEK CORE SERVICES INC.
360 Wakara Way, SLC Utah 84108 (801) 584-2480

MOUNTAIN FUEL RESOURCES
56 S

# TEKLOG

17 Nov 1982
TTCS No. 244

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# Terra Tek Core Services

University Research Park · 360 Wakara Way · Salt Lake City, Utah 84108 · (801) 584-2480 · TWX. 910-925-5284

MOUNTAIN FUEL RESOURCES

| | | | | | |
|---|---|---|---|---|---|
| Well: | 56 S | State: | Utah | Date: | 18 Nov 1982 |
| Field: | Clay Basin | County: | Dasset | TTCS File #: | 244 |
| Drilling Fluid: | Water Base | Location: | Sec. 26 - T3N - R24E | Elevation: | 6778 |

## RETORT ANALYSIS - BOYLE'S LAW POROSITY

| Sample Number | Depth (feet) | Permeability Horz (md) | Permeability Vert (md) | Porosity (%) | Saturation Oil (%) | Saturation H2O (%) | Grain Density (gm/cc) | Lithology |
|---|---|---|---|---|---|---|---|---|
| | 6070.0 - 6076.0 | | | | | | | SHALE |
| 1 | 6076.0-77.0 | <0.01 | <0.01 | | | | | Shale, sl/slty |
| 2 | 6077.0-78.0 | 213 | | 9.6 | 0.0 | 23.7 | 2.67 | Sd,mg,cons lmy |
| 3 | 6078.0-79.0 | 216 | | 15.4 | 1.5 | 23.4 | 2.68 | Sd,mg,cons lmy |
| 4 | 6079.0-80.0 | <0.01 | | 4.8 | 0.0 | 81.9 | 2.66 | Sd,vfg,slty |
| | 6080.0 - 6087.0 | | | | | | | SHALE |
| 5 | 6087.0-88.0 | 0.02 | | 5.4 | 14.8 | 63.2 | 2.64 | Sd,vfg,slty,shy,carb |
| 6 | 6088.0-89.0 | 0.02 | | 8.9 | 5.4 | 64.4 | 2.64 | Sd,vfg,slty,shy |
| 7 | 6089.0-90.0 | 0.16 | | 8.4 | 6.1 | 60.9 | 2.64 | Sd,vfg,slty,shy |
| 8 | 6090.0-91.0 | 0.29 | | 9.6 | 5.2 | 44.0 | 2.65 | Sd,f-vfg,slty |
| | 6091.0 - 6092.0 | | | | | | | NOT RECOVERED |
| 9 | 6092.0-93.0 | 1.8 | | 14.6 | 1.3 | 38.9 | 2.65 | Sd,mg,slty |
| 10 | 6093.0-94.0 | 2.0 | | 14.7 | 1.2 | 36.1 | 2.66 | Sd,mg,slty |
| 11 | 6094.0-95.0 | 6.3 | | 14.0 | 1.3 | 40.2 | 2.65 | Sd,mg,slty |
| 12 | 6095.0-96.0 | 8.5 | | 14.7 | 1.2 | 34.6 | 2.65 | Sd,mg,slty |
| 13 | 6096.0-97.0 | 8.7 | | 14.3 | 2.6 | 35.7 | 2.65 | Sd,mg,slty |
| 14 | 6097.0-98.0 | 2.8 | | 15.3 | 5.6 | 37.9 | 2.65 | Sd,mg,slty |
| 15 | 6098.0-99.0 | 1.0 | | 13.8 | 25.6 | 21.9 | 2.64 | Sd,fg,slty |
| | 6099.0 - 6103.0 | | | | | | | SH, SLTY |
| 16 | 6103.0-04.0 | 0.02 | | 7.9 | 0.0 | 60.4 | 2.66 | Sd,vfg,slty |

# Terra Tek Core Services



University Research Park · 360 Wakara Way · Salt Lake City, Utah 84108 · (801) 584-2480 · TWX. 910-925-5284

MOUNTAIN FUEL RESOURCES Date: 18 Nov 1982 TTCS File #: 244

Well: 56 S

RETORT ANALYSIS - BOYLE'S LAW POROSITY

| Sample Number | Depth (feet) | Permeability Horz (md) | Permeability Vert (md) | Porosity (%) | Saturation Oil (%) | Saturation H2O (%) | Grain Density (gm/cc) | Lithology |
|---|---|---|---|---|---|---|---|---|
| 17 | 6104.0-05.0 | 0.03 | | 8.7 | 0.0 | 50.7 | 2.65 | Sd,vfg,slty,sh lam |
| 18 | 6105.0-06.0 | 0.33 | | 12.7 | 1.6 | 36.9 | 2.64 | Sd,f-vfg,slty |
| 19 | 6106.0-07.0 | 3.1 | | 14.7 | 1.5 | 29.0 | 2.65 | Sd,fg,slty |
| 20 | 6107.0-08.0 | 0.29 | | 12.5 | 1.7 | 37.8 | 2.65 | Sd,f-vfg,slty |
| 21 | 6108.0-09.0 | 0.20 | | 11.2 | 1.3 | 41.3 | 2.65 | Sd,f-vfg,slty,sh lam |
| 22 | 6109.0-10.0 | 15 | | 17.1 | 1.2 | 33.2 | 2.64 | Sd,fg,sl/slty |
| 23 | 6110.0-11.0 | 23 | | 17.0 | 1.3 | 30.8 | 2.64 | Sd,fg,sl/slty |
| 24 | 6111.0-12.0 | 11 | | 15.5 | 1.2 | 28.8 | 2.70 | Sd,fg,sl/slty,pyr |
| 25 | 6112.0-13.0 | 0.81 | | 13.5 | 1.6 | 33.5 | 2.65 | Sd,f-vfg,slty |
| 26 | 6113.0-14.0 | 19 | | 16.0 | 1.3 | 32.5 | 2.65 | Sd,fg,sl/slty |
| 27 | 6114.0-15.0 | 12 | | 15.2 | 1.5 | 37.3 | 2.65 | Sd,m-fg,sl/slty |
| 28 | 6115.0-16.0 | 11 | | 15.4 | 1.5 | 44.0 | 2.65 | Sd,m-fg,sl/slty |
| 29 | 6116.0-17.0 | 14 | | 14.5 | 1.3 | 37.1 | 2.64 | Sd,m-fg,sl/slty |
| 30 | 6117.0-18.0 | 1.3 | | 12.5 | 1.3 | 37.3 | 2.64 | Sd,m-fg,slty |
| 31 | 6118.0-19.0 | 30 | | 15.6 | 1.3 | 41.2 | 2.64 | Sd,mg |
| 32 | 6119.0-20.0 | 1.1 | | 12.5 | 1.8 | 46.8 | 2.65 | Sd,m-fg,slty |
| 33 | 6120.0-21.0 | 39 | | 16.2 | 2.5 | 38.4 | 2.66 | Sd,mg,sl/slty |
| 34 | 6121.0-22.0 | 15 | | 14.6 | 2.8 | 40.8 | 2.65 | Sd,m-fg,sl/slty |
| 35 | 6122.0-23.0 | 3.6 | | 12.9 | 4.0 | 28.9 | 2.64 | Sd,fg,slty |
| 36 | 6123.0-24.0 | 0.13 | | 15.5 | 9.4 | 48.4 | 2.67 | Sd,f-vfg,slty |
| | 6124.0 - 6156.0 | | | | | | | SHALE |
| 37 | 6156.0-57.0 | 0.07 | | 12.6 | 0.0 | 81.6 | 2.66 | Sltstn,shy |

# Terra Tek Core Services



University Research Park · 360 Wakara Way · Salt Lake City, Utah 84108 · (801) 584-2480 · TWX. 910-925-5284

MOUNTAIN FUEL RESOURCES Date: 18 Nov 1982 TTCS File #: 244

Well: 56 S

RETORT ANALYSIS - BOYLE'S LAW POROSITY

| Sample Number | Depth (feet) | Permeability Horz (md) | Permeability Vert (md) | Porosity (%) | Saturation Oil (%) | Saturation H2O (%) | Grain Density (gm/cc) | Lithology |
|---|---|---|---|---|---|---|---|---|
| 38 | 6157.0-58.0 | 0.29† | | 7.5 | 0.0 | 78.3 | 2.67 | Sd,vfg,slty,sl/pyr |
| 39 | 6158.0-59.0 | 0.07 | | 10.1 | 0.0 | 88.2 | 2.69 | Sd,vfg,slty,sl/pyr |
| 40 | 6159.0-60.0 | 0.41† | | 9.3 | 0.0 | 88.2 | 2.68 | Sd,vfg,slty,sl/pyr |
| 41 | 6160.0-61.0 | 0.19 | | 6.2 | 0.0 | 87.5 | 2.67 | Sd,vfg,slty,sl/pyr |
| 42 | 6161.0-62.0 | 0.03 | | 5.3 | 0.0 | 86.2 | 2.64 | Sd,vfg,slty |
| | 6162.0 - 6163.0 | | | | | | | SHALE |
| 43 | 6163.0-64.0 | 35 | | 11.6 | 2.0 | 30.2 | 2.64 | Sd,m-fg,sl/slty |
| 44 | 6164.0-65.0 | 0.01 | | 5.1 | 8.7 | 56.9 | 2.66 | Sd,vfg,slty |
| 45 | 6165.0-66.0 | 65 | | 10.3 | 0.0 | 20.7 | 2.64 | Sd,fg |
| 46 | 6166.0-67.0 | 1.1 | | 10.0 | 2.7 | 52.2 | 2.66 | Sd,vfg,slty,sh lam |
| 47 | 6167.0-68.0 | 94 | | 11.8 | 0.9 | 22.7 | 2.64 | Sd,fg |
| 48 | 6168.0-69.0 | 0.23 | | 12.2 | 4.4 | 35.3 | 2.65 | Sd,f-vfg,slty |
| 49 | 6169.0-70.0 | 141 | | 11.4 | 0.9 | 18.3 | 2.64 | Sd,m-fg |
| 50 | 6170.0-1099 | 0.29 | | 5.4 | 6.4 | 45.0 | 2.68 | Sd,f-vfg,slty,pyr,sh lam |
| 51 | 6171.0-72.0 | 0.28 | | 9.1 | 6.7 | 56.6 | 2.65 | Sd,f-vfg,slty,sh lam |
| 52 | 6172.0-73.0 | 13 | | 13.2 | 3.5 | 27.6 | 2.64 | Sd,fg,sl/slty |
| 53 | 6173.0-74.0 | 21 | | 11.9 | 2.9 | 17.5 | 2.64 | Sd,fg,sl/slty |
| 54 | 6174.0-75.0 | 4.8 | | 11.2 | 3.9 | 29.4 | 2.66 | Sd,f-vfg,slty,sh lam |
| 55 | 6175.0-76.0 | 8.5 | | 11.3 | 6.9 | 38.4 | 2.65 | Sd,f-vfg,slty,sh lam |
| 56 | 6176.0-77.0 | 86 | | 14.6 | 3.5 | 28.1 | 2.65 | Sd,fg |
| 57 | 6177.0-78.0 | 108 | | 13.9 | 3.9 | 21.2 | 2.66 | Sd,fg |
| 58 | 6178.0-79.0 | 48 | 0.28 | 10.9 | 3.4 | 13.6 | 2.65 | Sd,fg,sl/lmy |

† Horizontal dehydration crack

# Terra Tek Core Services



University Research Park · 360 Wakara Way · Salt Lake City, Utah 84108 · (801) 584-2480 · TWX. 910-925-5284

MOUNTAIN FUEL RESOURCES  Date: 18 Nov 1982  TTCS File #: 244

Well: 56 S

RETORT ANALYSIS - BOYLE'S LAW POROSITY

| Sample Number | Depth (feet) | Permeability Horz (md) | Permeability Vert (md) | Porosity (%) | Saturation Oil (%) | Saturation H2O (%) | Grain Density (gm/cc) | Lithology |
|---|---|---|---|---|---|---|---|---|
| | 6179.0 - 6195.0 | | | | | | | SHALE |
| 59 | 6195.0-96.0 | 0.09 | <0.01 | 8.3 | 0.0 | 76.5 | 2.66 | Sd,vfg,slty,shy |
| 60 | 6196.0-97.0 | 0.05 | | 8.0 | 0.0 | 83.3 | 2.66 | Sd,vfg,slty,shy |
| 61 | 6197.0-98.0 | 0.75 | | 8.2 | 0.0 | 69.2 | 2.65 | Sd,vfg,slty,sl/lmy |
| 62 | 6198.0-99.0 | 1.1 | | 8.3 | 0.0 | 86.1 | 2.65 | Sd,vfg,slty,sl/lmy |
| 63 | 6199.0-00.0 | 5.1† | | 11.4 | 0.0 | 83.0 | 2.67 | Sd,vfg,slty,shy |
| 64 | 6200.0-01.0 | 0.04 | | 12.4 | 4.2 | 64.8 | 2.66 | Sd,vfg,slty |
| 65 | 6201.0-02.0 | 0.23 | | 12.8 | 1.8 | 60.3 | 2.65 | Sd,f-vfg,slty |
| 66 | 6202.0-03.0 | 0.25 | | 10.7 | 0.0 | 70.1 | 2.64 | Sd,f-vfg,slty |
| 67 | 6203.0-04.0 | 0.16 | | 8.5 | 0.0 | 77.0 | 2.65 | Sd,vfg,slty,shy |
| 68 | 6204.0-05.0 | 16 | | 12.8 | 6.5 | 40.9 | 2.65 | Sd,m-fg,slty |
| 69 | 6205.0-06.0 | 15 | | 16.5 | 7.1 | 54.5 | 2.65 | Sd,m-fg,slty,clay incl |
| 70 | 6206.0-07.0 | 6.5 | | 10.9 | 11.6 | 41.5 | 2.64 | Sd,m-fg,slty,sl/shy |
| | 6207.0 - 6210.0 | | | | | | | NOT RECOVERED |

† Horizontal dehydration crack

# Terra Tek Core Services

University Research Park · 360 Wakara Way · Salt Lake City, Utah 84108 · (801) 584-2480 · TWX. 910-925-5284

MOUNTAIN FUEL RESOURCES

| | | | | | |
|---|---|---|---|---|---|
| Well: | 56 S | State: | Utah | Date: | 18 Nov 1982 |
| Field: | Clay Basin | County: | Dasget | TTCS File #: | 244 |
| Drilling Fluid: | Water Base | Location: | Sec. 26 - T3N - R24E | Elevation: | 6778 |

## RETORT ANALYSIS - BOYLE'S LAW POROSITY
## DATA SUMMARY

| Zone Number | Depth Interval (feet) | Number of samples | Permeability Horz (md) | Permeability Vert (md) | Porosity (%) | Saturation Oil (%) | Saturation H2O (%) | Grain Density (gm/cc) |
|---|---|---|---|---|---|---|---|---|
| 1 | 6077.0-080.0 | 3 | 143 [124] | | 9.9 [5.3] | 0.5 [0.8] | 43.0 [33.7] | 2.67 [0.0] |
| 2 | 6087.0-091.0 | 4 | 0.12 [0.13] | | 8.1 [1.8] | 7.9 [4.6] | 58.1 [9.5] | 2.64 [0.0] |
| 3 | 6092.0-099.0 | 7 | 4.5 [3.3] | | 14.5 [0.5] | 5.6 [9.0] | 35.0 [6.1] | 2.65 [0.0] |
| 4 | 6103.0-105.0 | 2 | 0.03 [0.00] | | 8.3 [0.6] | 0.0 [0.0] | 55.6 [6.9] | 2.66 [0.0] |
| 5 | 6105.0-109.0 | 4 | 0.97 [1.4] | | 12.8 [1.4] | 1.5 [0.2] | 36.3 [5.2] | 2.65 [0.0] |
| 6 | 6109.0-124.0 | 15 | 13 [11] | | 14.9 [1.5] | 2.3 [2.1] | 37.3 [6.1] | 2.65 [0.0] |
| 7 | 6156.0-162.0 | 6 | 0.18 [0.15] | | 8.5 [2.7] | 0.0 [0.0] | 85.0 [4.1] | 2.67 [0.0] |

[ ] Sample standard deviation

# Terra Tek Core Services



University Research Park · 360 Wakara Way · Salt Lake City, Utah 84108 · (801) 584-2480 · TWX. 910-925-5284

MOUNTAIN FUEL RESOURCES  Date: 18 Nov 1982  TTCS File #: 244

Well: 56 S

DATA SUMMARY

| Zone Number | Depth Interval (feet) | Number of samples | Permeability Horz (md) | Permeability Vert (md) | Porosity (%) | Saturation Oil (%) | Saturation H2O (%) | Grain Density (gm/cc) |
|---|---|---|---|---|---|---|---|---|
| 8 | 6163.0-170.0 | 7 | 48 [55] | | 10.3 [2.4] | 2.8 [3.0] | 33.8 [15.4] | 2.65 [0.0] |
| 9 | 6170.0-172.0 | 2 | 0.29 [0.00] | | 7.2 [2.6] | 6.5 [0.2] | 50.8 [8.2] | 2.66 [0.0] |
| 10 | 6172.0-179.0 | 7 | 41 [41] | | 12.4 [1.5] | 4.0 [1.3] | 25.1 [8.3] | 2.65 [0.0] |
| 11 | 6195.0-204.0 | 9 | 0.33 [0.38] | | 9.8 [2.0] | 0.7 [1.4] | 74.5 [8.9] | 2.65 [0.0] |
| 12 | 6204.0-207.0 | 3 | 13 [5.3] | | 13.4 [2.9] | 8.4 [2.8] | 45.6 [7.7] | 2.65 [0.0] |

[ ] Sample standard deviation

Clayburn U #56-[redacted] Sec 26, 3N, 24E | 14[redacted]ne 88 Kubly

N

well head.

meter run

access road.

NATIONAL 42-381 50 SHEETS 5 SQUARE 42-382 100 SHEETS 5 SQUARE 42-389 200 SHEETS 5 SQUARE 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:

No wells on leasehold w/in CA

U-9712-A - Questar 100%
CA well - RT & OR's Mtn. Fuel Resources - U-11246 ft Asgnmt pending to "Questar Energy of CO"
SLC-045051(A) OR's
SLC-045051(B)
SLC-045053(A) OR's
SLC-045053(B)
SLC-062508 - OR's
SLC-070555 - OR's
SLC-070555(A) - OR's
? Agreement No. 14-08-0001-16009
(Clay Basin Gas Storage Agreement)
Vernal

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

List of Leases

| Overriding Royalties | Operating Rights |
| --- | --- |
| U-09712-A | SL-045051-A & B |
| U-011246 | SL-045053-A & B |
| | SL-062508 |
| | SL-070555 |
| | 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<br>P.O. Box 11450<br>Salt Lake City, Utah 84147 | :<br>:<br>: | Oil and Gas Leases<br>U-09712-A et al |

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 2 8 2004
DIV. OF OIL, GAS & MINING

Division of Oil, Gas and 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): | **TO:** ( New Operator): |
|---|---|
| N1070-Wexpro Company<br>PO Box 45360<br>Salt Lake City, UT 84145-0360<br>Phone: 1-(801) 534-5267 | N7560-Questar Pipeline Company<br>PO Box 11450<br>Salt Lake City, UT 84147<br>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 46-S | 26 | 030N | 240E | 4300930042 | 1025 | Federal | GS | A |
| CLAY BASIN UNIT 55-S | 26 | 030N | 240E | 4300930051 | 1025 | Federal | GS | A |
| CLAY BASIN UNIT 56-S | 26 | 030N | 240E | 4300930052 | 1025 | Federal | GS | A |
| CLAY BASIN U 4 (ES LAUZER 1) | 27 | 030N | 240E | 4300915628 | 1025 | Federal | GS | A |
| CLAY BASIN UNIT 34-S | 27 | 030N | 240E | 4300930025 | 1025 | Federal | GS | A |
| CLAY BASIN UNIT 37-S | 27 | 030N | 240E | 4300930028 | 1025 | Federal | GS | A |
| CLAY BASIN UNIT 38-S | 27 | 030N | 240E | 4300930029 | 1025 | Federal | GS | A |
| CLAY BASIN UNIT 47-S | 27 | 030N | 240E | 4300930043 | 1025 | Federal | GS | A |

## OPERATOR CHANGES DOCUMENTATION

**Enter date after each listed item is completed**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/13/2004
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/13/2004
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 1/14/2004
4. Is the new operator registered in the State of Utah: YES Business Number: 649172-0142
5. 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 1 | 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