

TXO

TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

September 15, 1986

RECEIVED
SEP 17 1986

**DIVISION OF
OIL, GAS & MINING**

State of Utah
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Center
Suite 350
Salt Lake City, Utah 84180-1203

Re: Cracker Federal #4
Section 7-T11S-R23E
Uintah County, Utah

Gentlemen:

Enclosed please find a copy of the APD sent to the Vernal BLM Office for the above referenced well. Also included is the Drilling Program and Surface Use Program.

If you have any questions, please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.



R.K. (Ivan) Urnovitz
Environmental Scientist

RKU/gbp

Enclosure

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

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 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 TXO Production Corp. Attn: R.K. (Ivan) Urnovitz

3. ADDRESS OF OPERATOR
 1800 Lincoln Center Bldg. Denver, CO 80264

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

2016' FNL, 722' FEL Section 7-T11S-R23E
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Same SENE
 Approx. 20 miles southwest of Bonanza, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 722'

16. NO. OF ACRES IN LEASE 602.28

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. - - -

19. PROPOSED DEPTH 5700' *Washed*

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5925' GR

22. APPROX. DATE WORK WILL START* October 1, 1986

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	300'	200 sacks (approx.) (see A)
7 7/8"	4 1/2"	10.5#	5700'	200 sacks

A. Cement will be circulated to the surface.

B. All casing will be new K-55.

RECEIVED
 SEP 17 1986
 DIVISION OF
 OIL, GAS & MINING

APPROVED BY THE STATE
 OF UTAH DIVISION OF
 OIL, GAS, AND MINING
 DATE: 9-25-86
 BY: [Signature]
 WELL SPACING: 302

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 R.E. Dashner TITLE Dist. Drilling & Prod'n Mgr. DATE September 8, 1986
 (This space for Federal or State office use)

PERMIT NO. 43-047-31748 APPROVAL DATE _____

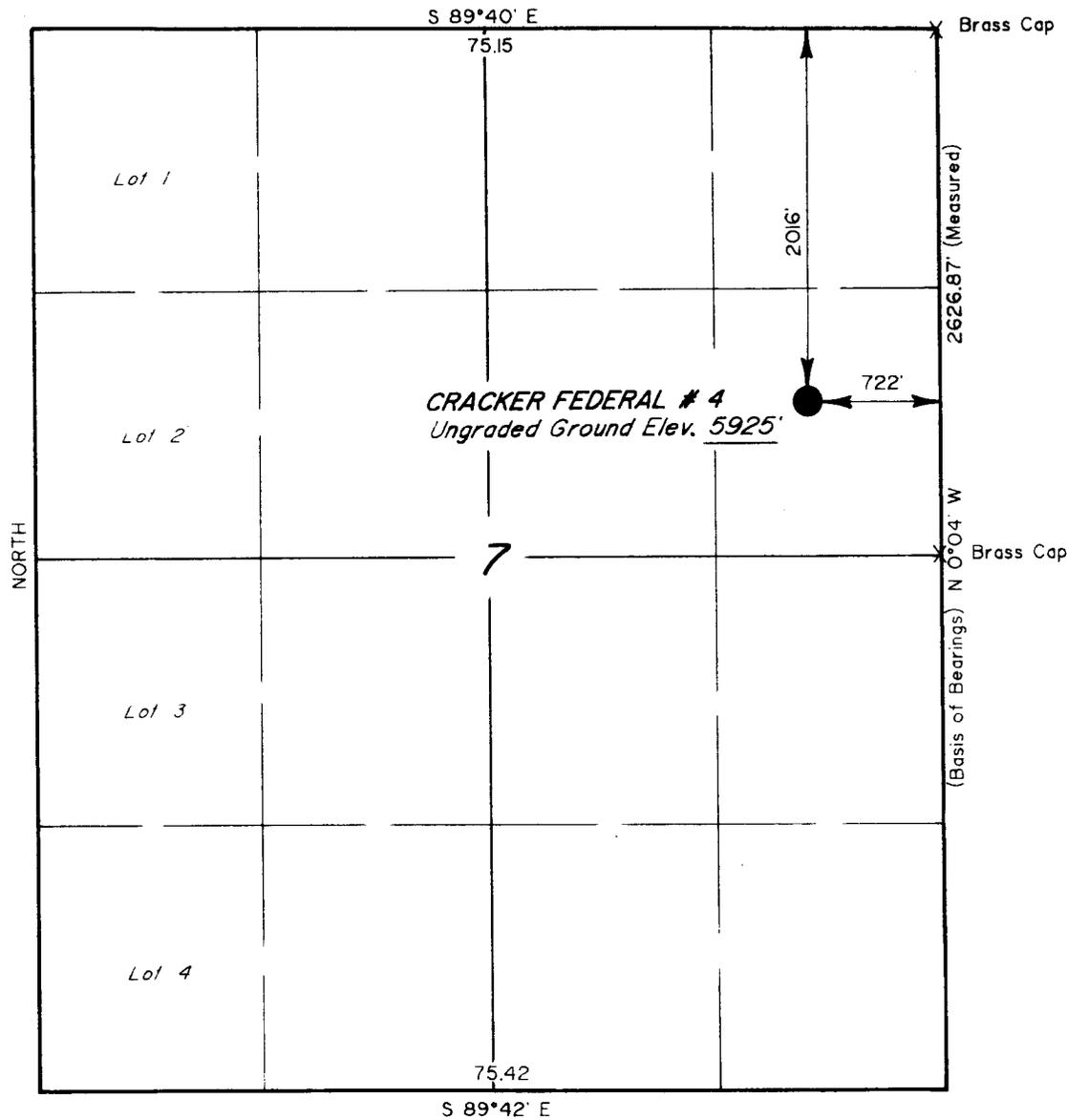
APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

T 11 S, R 23 E, S.L.B. & M.

PROJECT
TXO PRODUCTION CORP.

Well location, CRACKER FEDERAL #4,
located as shown in the SE ¼ NE ¼,
Section 7, T 11 S, R 23 E, S.L.B. & M.,
Uintah County, Utah.



CERTIFICATE

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

Richard Woodruff

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

X = Located Section Corners

SCALE 1" = 1000'	DATE 8/28/86
PARTY <i>LDT</i> LDT GDT DLS	REFERENCES GLO
WEATHER FAIR	FILE TXO

DRILLING PLAN

DATE: September 9, 1986

WELL NAME: Cracker Federal #4

SURFACE LOCATION: 2016' FNL, 722' FEL, Section 7-T11S-R23E, SLB&M, Uintah County, Utah

FEDERAL OIL & GAS LEASE NO.: U-54196

TXO Production Corp., as Operator, is covered by Nationwide Bond No. 679 F 434 A.

I. DRILLING PROGRAM

1. SURFACE FORMATION: Uinta

2. ESTIMATED FORMATION TOPS:

Green River	100'
Wasatch	3650'
Total Depth	5700'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Gas Zone: Wasatch
Expected Oil Zone: Green River (non-economic)

Water may be encountered in the Green River and Wasatch Formations.

4. PRESSURE CONTROL EQUIPMENT:

- A. After surface casing is set, a double ram-type blowout preventer with blind rams and pipe rams, with minimum working pressure of 2000 psi (greater than the anticipated bottomhole pressure of 1100 psi), will be installed. See Exhibit 1.
- B. A choke control, fill and kill lines with minimum working pressure of 2000 psi will be installed.
- C. A rotating pack-off head will be installed above the blowout preventer to control flow while drilling with air.
- D. The equipment in A and B will be pressure-tested to 2000 psi for a minimum of 15 minutes before drilling surface pipe cement. The blowout preventer will be tested for operations daily and during trips.

5. CASING PROGRAM AS PER FORM 3160-3.

6. MUD PROGRAM:

0-300'	Air
300'-3000'	Native mud: 8.8 to 9.0 ppg; 28-32 viscosity API
3000' to TD	LSND mud: 9.0 to 9.2 ppg; 35-45 viscosity API; WL less than 10 cc.

7. CORING, LOGGING, TESTING PROGRAM:

A. No coring is anticipated.

B. Logging program will consist of: DIL-SP from TD to surface pipe, and FDC-CNL-GR from TD to 2000' above TD.

C. A DST may be run on shows of interest.

8. ABNORMAL CONDITIONS:

A. No abnormal pressures or temperatures are expected.

B. No hazardous gases such as H₂S are expected.

C. While drilling with gas or air, return fluids will be directed through the blow line to the reserve pit. All open fires or ignition sources will be prohibited on location while gas or air drilling. A pilot flame will be maintained at the end of the blow line (located 125' from the wellhead) to insure burning of return gases that are combustible.

9. AUXILIARY EQUIPMENT

A. A kelly cock will be used.

B. A float valve will be run in the drill string above the bit.

C. A sub with full opening valve will be kept on the derrick floor to stab into DP when kelly is not in use.

10. ANTICIPATED STARTING DATES:

Start location construction	October 1, 1986
Spud date	October 4, 1986
Complete drilling	October 16, 1986
Completed, ready for pipeline	October 29, 1986

11. COMPLETION:

In the event logging or other information indicates the well is capable of commercial production, production casing will be set as indicated on Form 3160-3. The drilling rig will then be released and removed from the location.

A smaller completion rig will be moved on the location to perform completion procedures.

Productive zones will be perforated, tested, and treated as necessary. Gas will be flared during testing. Produced water will be contained in the unlined drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. A completion program will be furnished after drilling and logging, if requested.

II. SURFACE USE PROGRAM

1. EXISTING ROADS

- A. From Bonanza, Utah, proceed south 9.7 miles on Highway 45 (follow signs to Baxter Pass) to Highway 207 (to Watson). Turn right on 207 and proceed 8.8 miles past Watson and Evacuation Creek to a fork. Take the right fork (pass Kings well) and stay on main road for 7.9 miles. Take the right fork and proceed north for 0.5 mile to a fork. Take the left fork and proceed west 1.6 miles to a fork. Take the right fork and proceed north 1.0 mile to a fork. Take the left fork and continue north 5.9 miles to a fork and stay left. Proceed another 1.5 miles to a fork (pass the Cracker Fed. #1) and go right and head up a switchback road. Go 0.5 mile to an abandoned location and take the left fork and go another 0.6 mile to where the access road to the proposed location will begin.
- B. Access route to location color coded in red and labeled. Refer to Exhibit 2.
- C. For development well, all existing roads within one mile color coded in yellow. Refer to Exhibit 3.
- D. Plans for improvement and maintenance of existing roads: The existing road will not require significant work. During wet periods some maintenance may be necessary to allow passage by drilling rigs and well servicing vehicles. Dry periods may necessitate watering the road to control dust or improve stability.

2. PLANNED ACCESS ROAD

Approximately 2500 feet of new road will be constructed to the well pad with grades ranging up to 6 percent. The use of culverts, gates, or cattleguards will not be necessary. Refer to Exhibit 4.

3. LOCATION OF EXISTING WELLS

Exhibit 5 is a one-mile radius locating and identifying the following:

- A. Water Wells-None
- B. Injection Wells-None
- C. Abandoned Wells-Shamrock Gov't #1, Sec. 8-T11S-R23E
- D. Disposal Wells-None
- E. Producing Wells-TXO Cracker Fed. #3, Sec. 5-T11S-R23E (currently shut-in)
- F. Drilling Wells-None
- G. Shut-in Wells - None
- H. Injection Wells-None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. On-well-pad production facilities, if well is successfully completed for production.

1. Proposed facilities and attendant lines in relation to the well pad. Refer to Exhibit 6.
2. Dimensions of facilities: Refer to Exhibit 6.
3. The production facilities will include a production pit, a production unit, a meter run, and dehydrator. The meter and dehydrator are normally owned, installed, and maintained by the gas purchaser. The anticipated location of these facilities is shown on Exhibit 6. The pit will be located in cut, contain all water production, and built in accordance with NTL-2B IV.4. specifications for disposal of less than five barrels of produced water per day. In the event the volume of produced water exceeds 5 BWPD, TXO will investigate alternate disposal methods and obtain approval as required by NTL-2B.
4. Protective devices and measures to protect livestock and wildlife: The water production pit will be fenced with barbed wire to protect livestock and wildlife.

B. Off-well-pad production facilities

No off-well-pad facilities, other than a gas pipeline, are anticipated.

5. LOCATION AND TYPE OF WATER SUPPLY

A. Location and type of water supply: TXO is considering the following water sources:

1. Bitter Creek; from a point located in the SE/4 SE/4 Section 26-T11S-R22E.
2. White River; from a point either located in the SW/4 NW/4 Section 20-T10S-R23E.
3. Evacuation Creek; from a point located in the NW/4 NE/4 Section 7-T11S-R25E.

The actual source used will depend on water availability. Temporary water use permits from the State of Utah will be obtained for the sources used.

B. Method of transporting water: The water will be hauled in trucks by a certified water hauler. The exact route will depend on the source chosen, however, all travel will be on existing roads.

C. If water well is to be drilled, so state: No water well is contemplated.

6. SOURCES OF CONSTRUCTION MATERIALS

A. Show information either on map or by written description: It is anticipated that cuts on location will furnish sufficient quantities of materials to construct a level location. Topsoil will be stockpiled on the north and northeast ends of the pad for later use during rehabilitation of the disturbed areas. Excess excavated material will also be stockpiled adjacent to the pit for use during rehabilitation. Please refer to Exhibit 7.

B. Identify if from Federal or Indian Land: The affected land is Federal and under the jurisdiction of the Bureau of Land Management.

7. METHODS OF HANDLING WASTE DISPOSAL

A. Cuttings will be contained and disposed of in the reserve pit.

B. Drilling fluids will be contained and disposed of in the reserve pit. While drilling with air or gas, a dust arresting system will be installed on the blow line.

C. Produced fracing fluids will be directed to the reserve pit for evaporation.

D. Sewage: A portable chemical toilet will be on location during operations.

E. Garbage and other trash will be placed in a trash bin and removed to a sanitary landfill upon completion.

F. Protective Devices: The flare pit (if necessary) will be fenced and flagged to protect animals. The drilling reserve pit will be fenced on three sides during drilling, and on the fourth side prior to the rig moving off location. If any oil is in the reserve pit, it will be removed or overhead flagging will be installed.

G. Statement regarding proper cleanup when rig moves out: When the rig moves out, all trash and refuse will be removed from the location and hauled to an approved landfill. All pits will be filled after drying and the area restored as under Item 10 of this plan.

8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: An existing landing strip in the E/2 Section 16-T11S-R22E may be used to ferry in crews, weather permitting. No new surface disturbance is necessary. Refer to Exhibit 3.

9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross section of drill pad with cuts and fills: Refer to Exhibit 7.
- B. Location of mud tank, reserve pit, trash bin, pipe racks and other facilities: Refer to Exhibit 7.
- C. Statement regarding pit lining: The reserve pit will be unlined. However, if the sub-surface structure should prove too porous or highly fractured, a 4 inch layer of bentonite or a commercial plastic liner will be placed in the pit to prevent excessive seepage and possible groundwater contamination.

10. PLANS FOR RESTORATION OF SURFACE

- A. Backfilling, leveling, contouring, and waste disposal: Upon completion of the well, the site will be cleared of all debris and the mouse and rat holes filled. The reserve pit will be allowed to dry by evaporation and then will be backfilled. Cuttings, drilling muds, and similar spent chemicals directed to the reserve pit pursuant to Item 7 above will be buried as the pit is backfilled. Disturbed areas of the pad not needed for production facilities will be graded to an appearance consistent with the natural contours. These areas will then be covered with topsoil, disced and seeded with a seed mixture recommended by the BLM. If the well is not commercially productive, the entire pad will be reclaimed as described above.
- B. In the event the well is not commercially productive, that portion of the access road requested by BLM to be rehabilitated will be recontoured, cover with topsoil, disced and seeded with the BLM-recommended seed mixture. Shrubby plants removed during road construction will be scattered randomly along the road to provide a natural appearance, control erosion and enhance seed production.
- C. Timetable for commencement and completion of rehabilitation operations: Rehabilitation will commence when drilling operations are completed, approximately October 30, 1986 and will be finished within approximately one year. It is anticipated that seeding of the recontoured pad would be performed in the Fall of 1987 following pit backfill and recontouring operations.

11. SURFACE OWNERSHIP

The access road and the well pad are located on lands administered by the BLM. Part of the road is off-lease and a right-of-way will be obtained from the Vernal BLM Office. Refer to Exhibit 4.

12. OTHER INFORMATION

General description of:

- A. Topography, soil characteristics, geologic features, flora, fauna: Though the well site is located on gently sloping ground the area can best be characterized as rugged. The plateaus and benches are punctuated with numerous drainages and are separated by valleys lying in steep washes and draws. Soils are generally thin except on the broader valley floors and rock is exposed in numerous areas. The soils in the area consist of silty clay loams. Vegetation is mainly comprised of big sagebrush, juniper, and native grasses. Animals inhabiting the area include deer, small common mammals, and birds.
- B. Other surface-use activities include: oil and gas production and livestock grazing.
- C. Proximity of water, occupied dwellings, archeological, historical or cultural sites: There are no live streams in the immediate area. An ephemeral wash runs through the canyon below the proposed location. An archeological survey will be conducted for the new access road and well pad with the results forwarded to the Vernal BLM office.

13. LESSEE'S OR OPERATOR'S REPRESENTATIVES AND CERTIFICATION

- A. Name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

District Drilling & Production Manager
TXO Production Corp.
1660 Lincoln Street
1800 Lincoln Center Building
Denver, Colorado 80264
(303) 861-4246 - Business
(303) 690-5658 - Residence

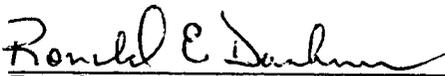
Comments regarding the content of this plan or arrangements for an on-site inspection should be directed to:

Ivan Urnovitz
Environmental Scientist
TXO Production Corp.
1660 Lincoln Street
1800 Lincoln Center Building
Denver, Colorado 80264
(303) 861-4246 - Business
(303) 665-2365 - Residence

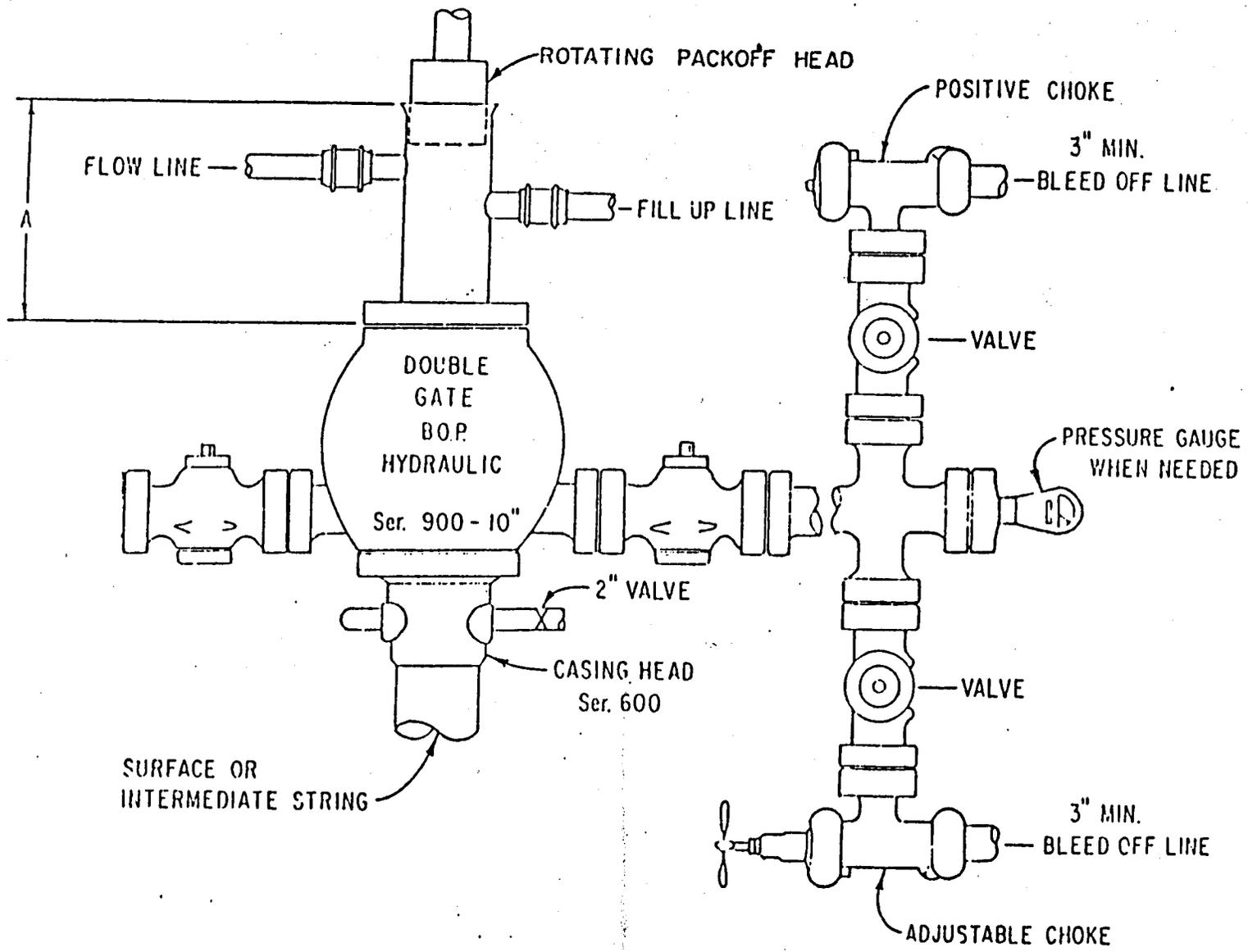
- B. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by TXO Production Corp. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DATE: September 9, 1986

NAME AND TITLE:

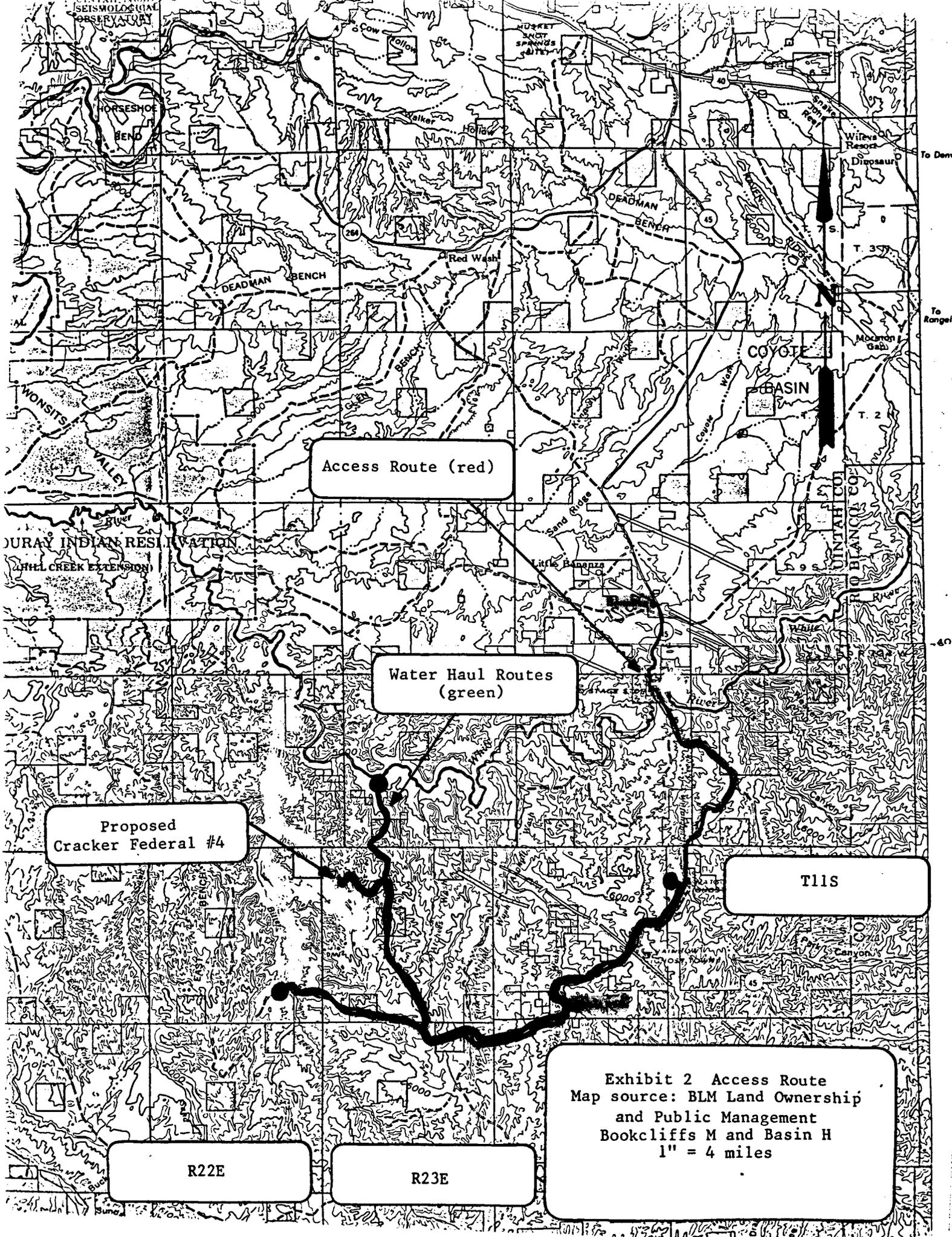


Ronald E. Dashner
District Drilling and Production Manager



TXO PRODUCTION CORP.

EXHIBIT I
 BLOWOUT PREVENTER DIAGRAM



Access Route (red)

Water Haul Routes (green)

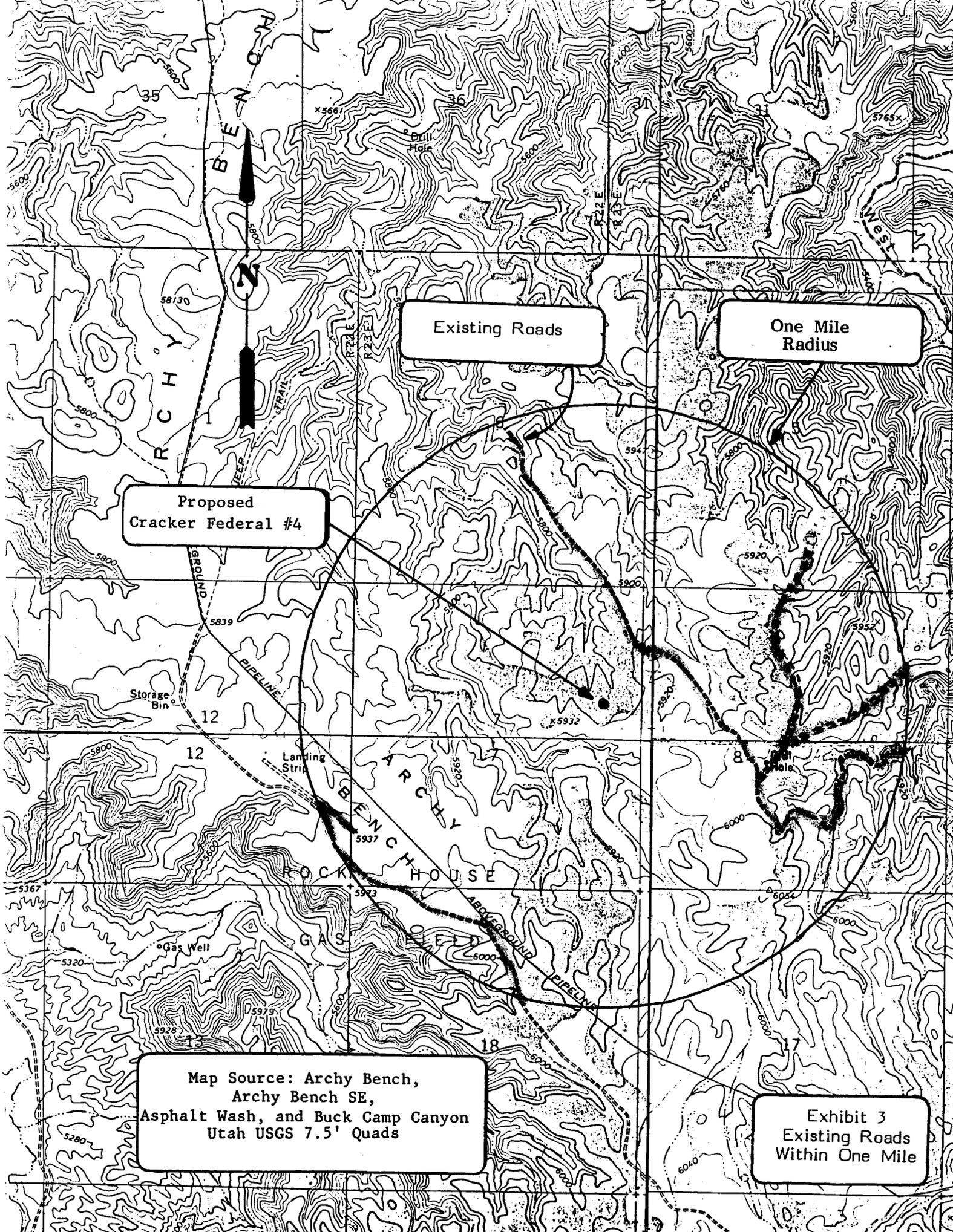
Proposed Cracker Federal #4

T11S

R22E

R23E

Exhibit 2 Access Route
Map source: BLM Land Ownership
and Public Management
Bookcliffs M and Basin H
1" = 4 miles



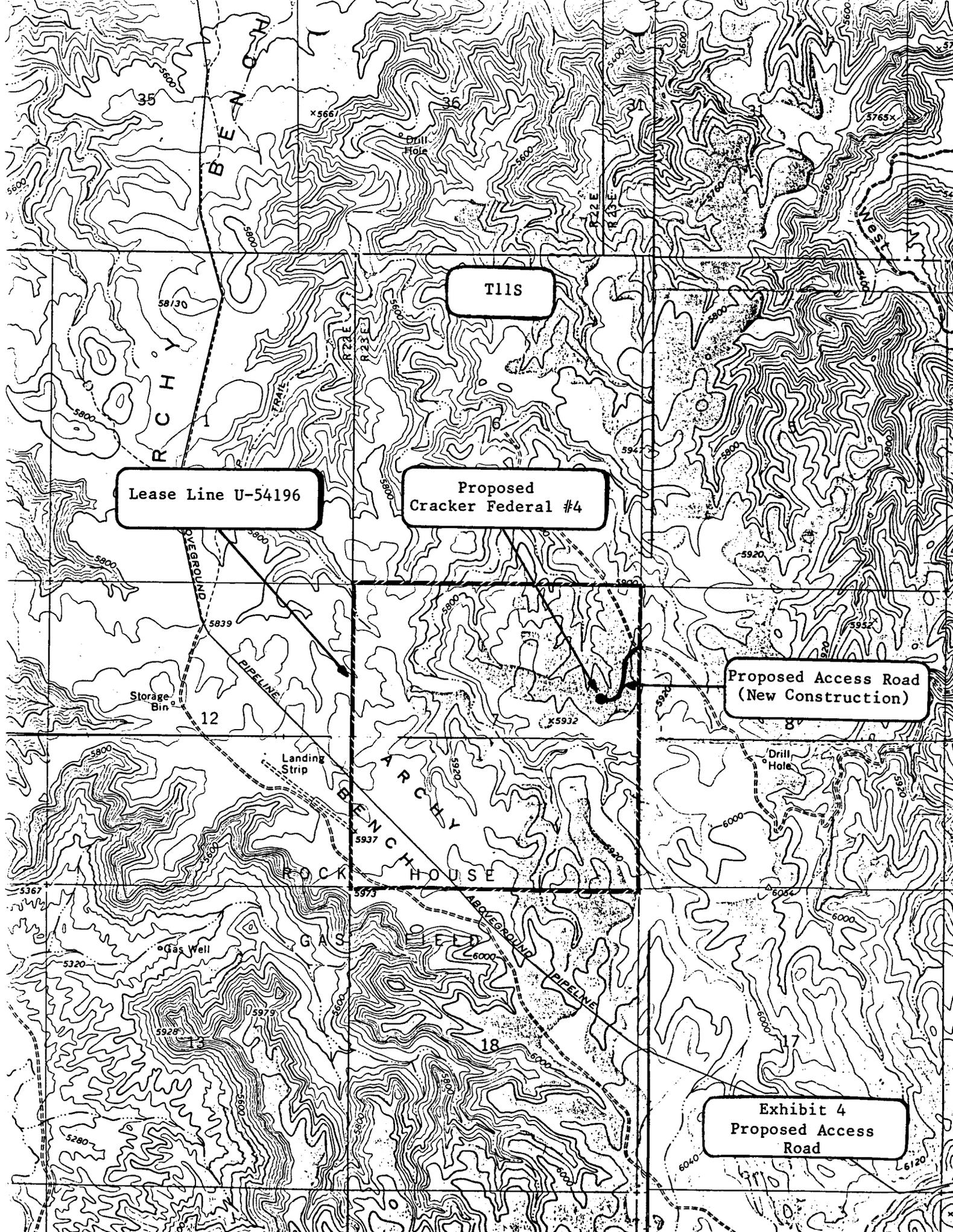
Existing Roads

One Mile Radius

Proposed Cracker Federal #4

Map Source: Archy Bench,
Archy Bench SE,
Asphalt Wash, and Buck Camp Canyon
Utah USGS 7.5' Quads

Exhibit 3
Existing Roads
Within One Mile



T11S

Lease Line U-54196

Proposed Cracker Federal #4

Proposed Access Road (New Construction)

Exhibit 4 Proposed Access Road

Storage Bin

Landing Strip

Drill Hole

Gas Well

ROCK HOUSE

GAS FIELD

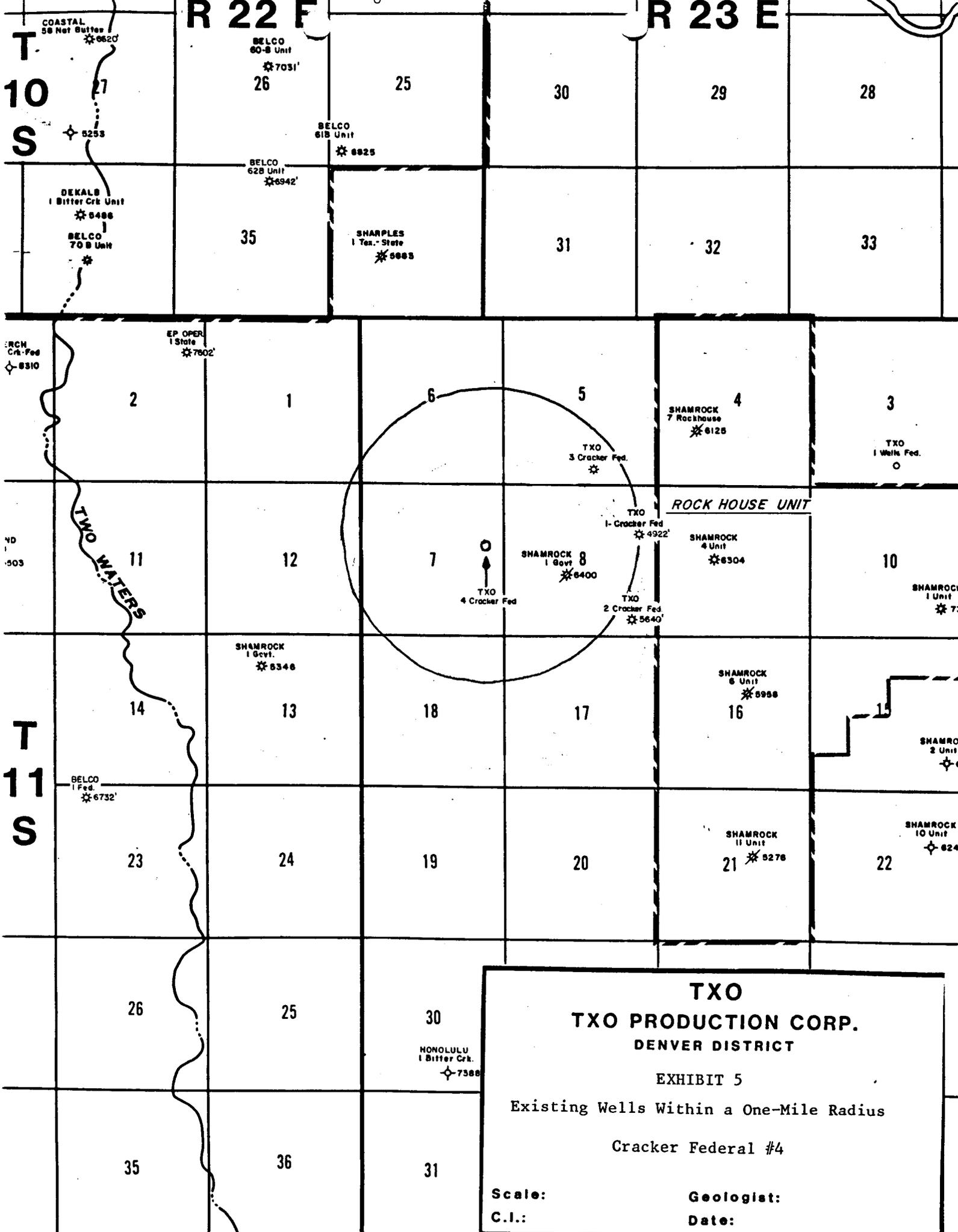
BENCH

ARCHY

ROCK

HOUSE

FIELD



R 22 E

R 23 E

T 10 S

T 11 S

COASTAL
58 Nat Butter
*6520

BELCO
60-B Unit
*7031'

26

25

30

29

28

*5255

BELCO
61B Unit
*6925

BELCO
62B Unit
*6942'

35

SHARPLES
1 Tex. State
*5983

31

32

33

DEKALB
1 Bitter Crk Unit
*6486

BELCO
70 B Unit
*

RCM
Ck. Fed
*6310

EP OPER
1 State
*7802'

2

1

6

5

4

3

SHAMROCK
7 Rockhouse
*6128

TXO
1 Wells Fed.
O

TWO WATERS

11

12

7

8

ROCK HOUSE UNIT

10

SHAMROCK
1 Govt
*6400

TXO
4 Cracker Fed

TXO
1- Cracker Fed
*4922'

SHAMROCK
4 Unit
*6304

SHAMROCK
1 Unit
*73

SHAMROCK
1 Govt.
*6346

14

13

18

17

SHAMROCK
6 Unit
*6988

16

SHAMROCK
2 Unit
*6

BELCO
1 Fed.
*6732'

23

24

19

20

SHAMROCK
11 Unit
*6276

21

22

SHAMROCK
10 Unit
*624

26

25

30

HONOLULU
1 Bitter Crk.
*7388

TXO
TXO PRODUCTION CORP.
DENVER DISTRICT

EXHIBIT 5

Existing Wells Within a One-Mile Radius

Cracker Federal #4

35

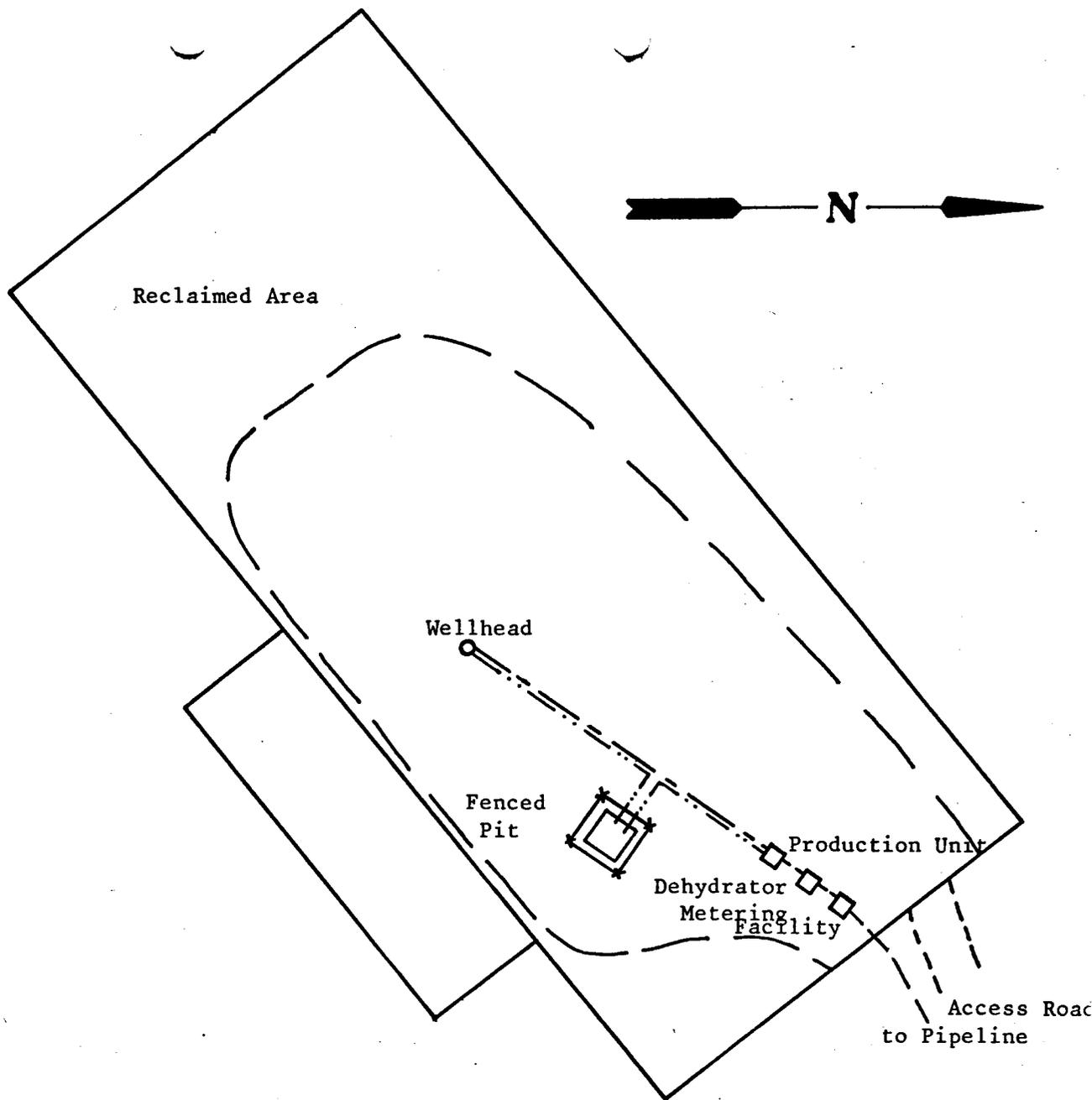
36

31

Scale:
C.I.:

Geologist:
Date:

Scale 1"=50'



- 1) Pits will be 10'x10'x6' deep and will be surrounded by fence.
- 2) Sacrificial magnesium anodes will be used, if necessary, to control corrosion.
- 3) All pipelines will be coated and wrapped, then buried.
- 4) A surface mounted high/low safety shutdown system will be installed.
- 5) The separator will be an ASME coded vessel.

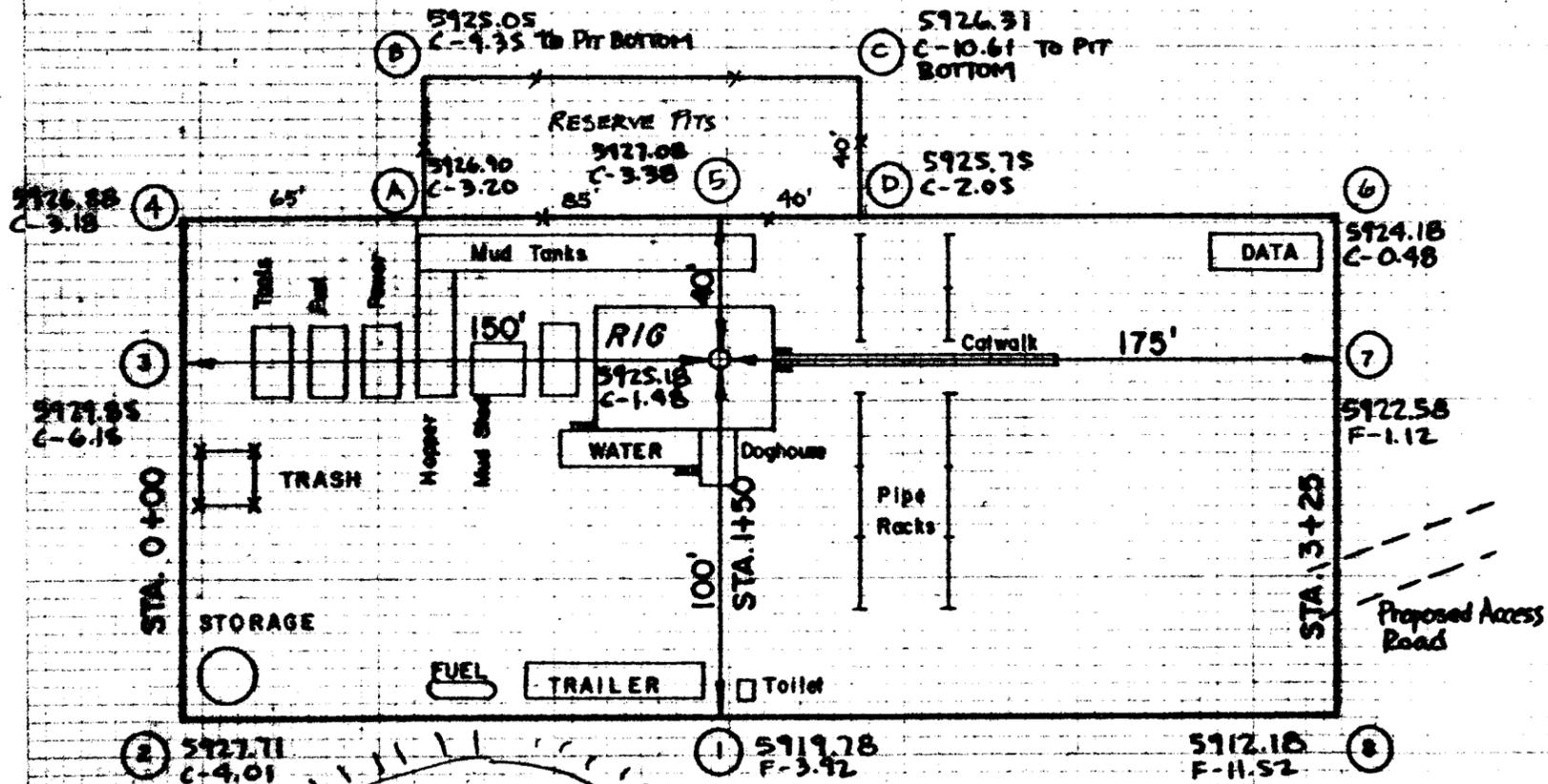
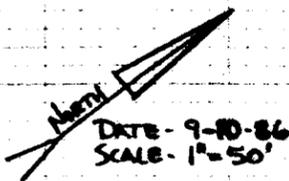
TXO PRODUCTION CORP.

Cracker Federal #4

PRODUCTION FACILITIES
EXHIBIT 6

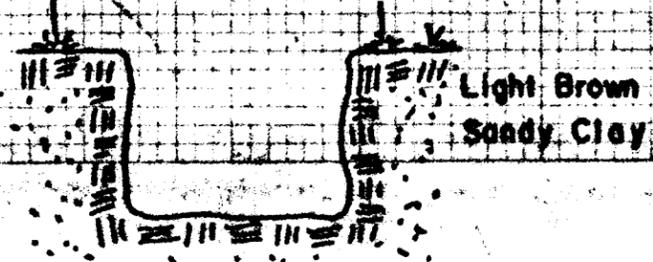
TXO PRODUCTION CORP.

CRACKER FEDERAL #4

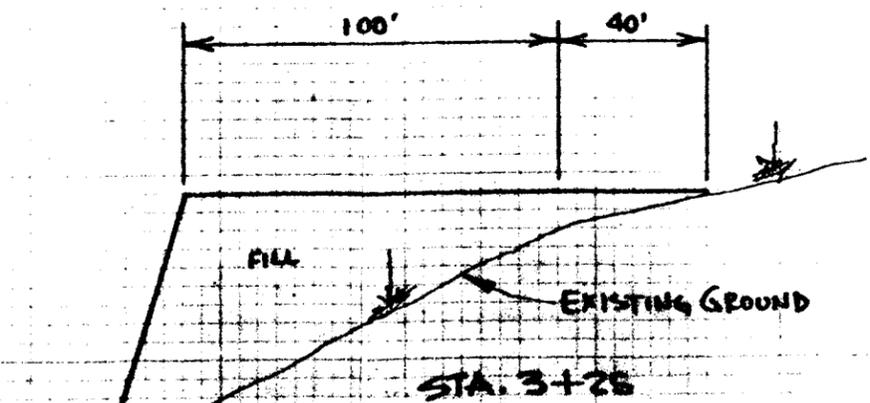
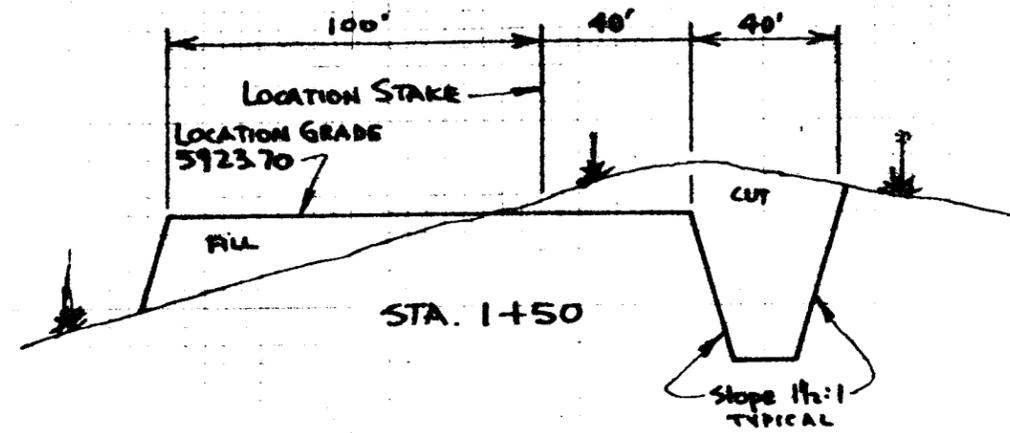
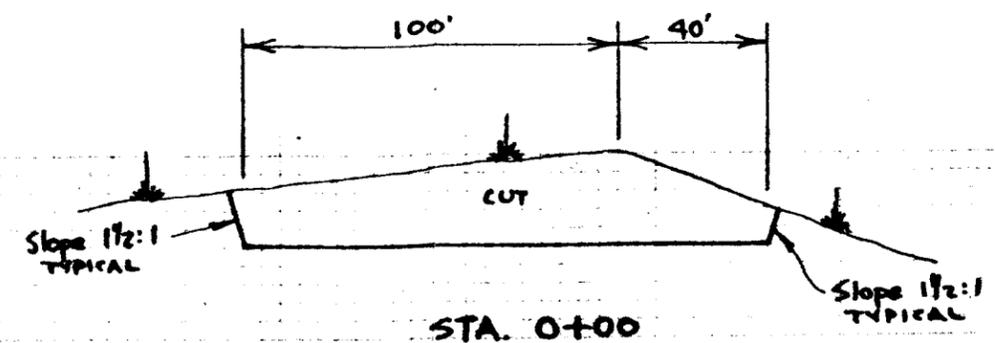


SOILS LITHOLOGY

- No Scale -



C
R
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C
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N
S



1" = 10'
Scales
1" = 50'

APPROXIMATE YARDAGES

Cu. Yds. Cut	- 4278.86	UNBALANCE AFTER 20% CONSTRUCTION 71.60 CU YDS CUT
Cu. Yds. Fill	- 3506.05	

Exhibit 7
Pad Lay-out
Cut-and-Fill

92920-APD

102801-Conf.
081107-Off Conf.

OPERATOR TXO Production Corp DATE 9-22-86
WELL NAME Craker Fed #4
SEC SE N6 7 T 11S R 23E COUNTY United

43-047-31748
API NUMBER

Fed
TYPE OF LEASE

CHECK OFF:

- PLAT
- BOND
- NEAREST WELL
- LEASE
- FIELD
- POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'
Need water permit

APPROVAL LETTER:

SPACING: 203 _____ UNIT 302
 _____ CAUSE NO. & DATE 302.1

STIPULATIONS:

1- Water



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 25, 1986

TXO Production Corporation
1800 Lincoln Center Bldg.
Denver, Colorado 80264

Gentlemen:

Re: Well Name: Cracker Federal #4 - SE NE Sec. 7, T. 11S, R. 23E
2016' FNL, 722' FEL - Uintah County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302, Oil and Gas Conservation General Rules, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

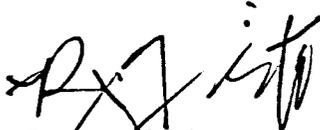
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.

Page 2
TXO Production Corporation
Well Name: Cracker Federal #4
September 25, 1986

5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.
6. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-047-31748.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson
8159T

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

101603

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 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 TXO Production Corp. Attn: R.K. (Ivan) Urnovitz

3. ADDRESS OF OPERATOR
 1800 Lincoln Center Bldg. Denver, CO 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 2016' FNL, 722' FEL, Section 7-T11S-R23E
 At proposed prod. zone
 SAME

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx. 20 miles southwest of Bonanza, Utah

16. NO. OF ACRES IN LEASE
 602.28

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

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

19. PROPOSED DEPTH
 5700'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5925' GR

22. APPROX. DATE WORK WILL START*
 October 1, 1986

5. LEASE DESIGNATION AND SERIAL NO.
 U-54196

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Cracker Federal

9. WELL NO.
 4

10. FIELD AND POOL, OR WILDCAT
 Rockhouse

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 7-T11S-R23E

12. COUNTY OR PARISH 13. STATE
 Uintah UT

43.047.31748

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8"	24.0#	300'	200 sacks (approx.) (see A)
7 7/8"	4 1/2"	10.5#	5700'	400 sacks

- A. Cement will be circulated to the surface.
- B. All casing will be new K-55.

RECEIVED
OCT 14 1986

DIVISION OF
OIL, GAS & MINING



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 RE Dashner TITLE Dist. Drilling & Prod'n Mgr. DATE September 8, 1986
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY [Signature] TITLE DISTRICT MANAGER DATE 10-7-86
 CONDITIONS OF APPROVAL, IF ANY:

[Handwritten notes]
20-080-608-58

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company TXO Production Corp. Well No. 4

Location Sec. 7 T11S R23E Lease No. U-54196

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

A. DRILLING PROGRAM

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered:

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

All BOPE and testing procedures will be consistent with API RP 53. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report.

The District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location during pressure testing.

3. Casing Program and Auxiliary Equipment

The District Office shall be notified, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

The cementing program for the 4½" casing shall protect any commercial minerals or fresh water encountered while drilling.

Oil & Gas

4. Mud Program and Circulating Medium

No chromate additives will be used in the mud system on Federal lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

Report all fresh water zones encountered to Wayne Svejnoha of this office. Copies of State of Utah forms will be acceptable.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Vernal BLM District Office, 170 South 500 East, Vernal, Utah 84078.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for

prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Order No. 1, lessees and operators have the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such

State and local laws are applicable to operations on Federal or Indian lands.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or work-over program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or

orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

In the event after-hour approvals are necessary, please contact one of the following individuals:

Craig M. Hansen Assistant District Manager for Minerals	(801) 247-2318
Gerald E. Kenczka Petroleum Engineer	(801) 781-1190
R. Allen McKee Petroleum Engineer	(801) 781-1368

Revised October 1, 1985

Date NOS Received 09/11/86

CONDITIONS OF APPROVAL
FOR THE SURFACE USE PROGRAM OF THE
APPLICATION FOR PERMIT TO DRILL

Company/Operator TXO Production Corp.

Well Name & Number Gas Well

Lease Number U-54196

Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 7 T. 11 S. R. 23 E.

Surface Ownership Public Land Administered by BLM

THIRTEEN POINT SURFACE USE PROGRAM:

Multipoint Requirements to Accompany APD

1. Planned Access Roads

Access roads and surface disturbing activities will conform to standards outlined in the USGS Publication (1978) Surface Operating Standards for Oil and Gas Development.

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

Right-of-Way Application needed. If a ROW is necessary for the access road, a copy of the ROW grant shall be with the dirt contractor during the construction and thereafter kept on location with the complete copy of the approved APD.

2. Location of Existing and/or Proposed Facilities

If a tank battery is constructed on this lease, the battery or the well pad will be surrounded by a dike of sufficient capacity to contain 1½ times the storage capacity of the battery. The integrity of the dike must be maintained.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

3. Methods for Handling Waste Disposal

Burning will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

The reserve pit shall not be lined.

Produced waste water will be confined to an unlined pit or, if deemed necessary, a storage tank for a period not to exceed 90 days after first production. During the 90-day period an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

4. Well Site Layout

All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed. Pits will be fenced and maintained until clean-up.

The fence will be constructed as prescribed in the USGS Publication (1978) Surface Operating Standards for Oil and Gas Development. Alternatives to the prescribed standards shall be submitted to the Authorized Officer for approval.

Well Site Layout: The reserve pit will be located on the northwest side of the pad. A separate blooie pit will be built adjacent to the pit. A small overflow trench will be constructed from the blooie pit to the reserve pit.

The stockpiled topsoil will be stored on the southeast side between stakes 1 and 2. A second topsoil stockpile will be located near stakes 6 and 7. Excess cut will be piled adjacent to the reserve pit and blooie pit.

Access to the well pad will be from between stakes 2 and 3. About 1,500 feet of new road and 3,000 feet of upgraded jeep trail will be required to reach an existing well service road to the Cracker No. 3 well.

5. Plans for Restoration of Surface

Immediately upon well completion, the location and surrounding area will be cleared of all debris, materials, trash and junk not required for production.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and all cans, barrels, pipe, etc. will be removed. The reserve pit and that portion of the location and access road not needed for production facilities/operations will be reclaimed. The reserve pit will be reclaimed within one year from the date of well completion.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage and the seed mixture will be proportionately larger (double the lbs. per acre).

An appropriate seed mixture will be determined by the BLM, either as part of the Conditions of Approval of the APD or at the time restoration activities are scheduled to begin.

All seeding will be done from September 1 until the ground freezes.

At such time as the well is plugged and abandoned, the operator will submit a surface reclamation plan to the Surface Management Agency for prescribed seed mixtures and reseeding requirements.

If the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

6. Other Additional Information

A cultural resource clearance will be required before any construction begins on Federal and Indian lands.

If, during operations, any archaeological or historical sites, or any object of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites are to be suspended and the discovery reported promptly to the Surface Management Agency.

On BLM administered land, it is required that a proposed use of pesticide, herbicide or other possible hazardous chemicals shall be cleared for use prior to application.

Additional Surface Stipulations for BLM, BIA, FS, DWR, or Private Surface Lands:

The operator or his contractor shall contact the BLM Office at (801) 789-1362 between 24 and 48 hours prior to construction activities. Contact the Bookcliffs Resource Area.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

The dirt contractor will be provided with an approved copy of the Surface Use Plan from the APD.

This drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

101514

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-047-31748

NAME OF COMPANY: TXO PRODUCTION CORP

WELL NAME: CRACKER FEDERAL #4

SECTION SE NE 7 TOWNSHIP 11S RANGE 23E COUNTY Uintah

DRILLING CONTRACTOR Olsen

RIG # 5

SPUDED: DATE 10-14-86

TIME 11:00 AM

HOW Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Russ Gillis

TELEPHONE # (303) 861-4246

DATE 19-14-86 SIGNED JRB

TXO

TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

102706

RECEIVED
OCT 24 1986

October 15, 1986

**DIVISION OF
OIL, GAS & MINING**

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

TIGHT HOLE

Re: Cracker Federal #4
Sec. 7, T11S-R23E
Uintah County, Utah

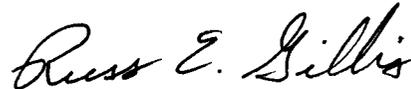
Gentlemen:

Please find attached Form 3160-5 (Sundry Notices and Reports on Wells) for the above referenced well. Please consider the status of this well TIGHT HOLE.

If anything further is required, please don't hesitate to contact me at the above letterhead address.

Sincerely,

TXO PRODUCTION CORP.



Russ E. Gillis
Petroleum Engineer

REG/nb
Attach.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

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.)

OIL WELL WELL OTHER

2. NAME OF OPERATOR

TXO Production Corp.

3. ADDRESS OF OPERATOR

1800 Lincoln Center Bldg., Denver, Colorado 80264

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

At surface 2016' FNL & 722' FEL (SE,NE)

14. PERMIT NO.

43-047-31748

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

5925' GR

5. LEASE DESIGNATION AND SERIAL NO.

U-54196

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Cracker Federal

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Rockhouse

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

Sec. 7, T11S-R23E

12. COUNTY OR PARISH 13. STATE

Uintah

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) Notification of Spud

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.)*

12 1/4" hole was spudded @ 11:00 AM 10-14-86 by Olsen Drilling Rig #5. This rotary tool rig will be used to drill the entire well.

TXO representative: Randy Walck

RECEIVED
OCT 24 1986

DIVISION OF
OIL, GAS & MINING

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

SIGNED

Russ E. Gillis

TITLE Petroleum Engineer

DATE 10/15/86

(This space for Federal or State office use)

APPROVED BY _____

TITLE _____

DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

TXO

TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

November 20, 1986

RECEIVED
NOV 25 1986

DIVISION OF
OIL, GAS & MINING

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

Re: Cracker Federal #4
Sec. 7-T11S-R23E
Uintah County, Utah

Gentlemen:

Please find attached Form 9-330 (Well Completion or Recompletion Report and Log) in triplicate, Form OGC-8-X (Report of Water Encountered During Drilling), and a complete well history for the above-referenced well.

If you have any questions or need any additional information, please contact me at the above letterhead number.

Sincerely,

TXO PRODUCTION CORP.



Russ E. Gillis
Petroleum Engineer

REG/jg

Enclosures/as stated

RECEIVED
NOV 06 1986

DIVISION OF
OIL, GAS & MINING

111013



TICKET NO. 41747000
03-NOV-86
VERNAL

FORMATION TESTING SERVICE REPORT

LEASE NAME	CRACKER FEDERAL	WELL NO.	4	TESTED INTERVAL	4692.0 - 4735.0	LEASE OWNER/COMPANY NAME	T X O PRODUCTION CORPORATION
LEGAL LOCATION	SEC. 7 - 11 S. - 23 E.	FIELD AREA	ROCK HOUSE	COUNTY	UNITED	STATE	UTAH
SEC. - TWP. - RMC.							PW

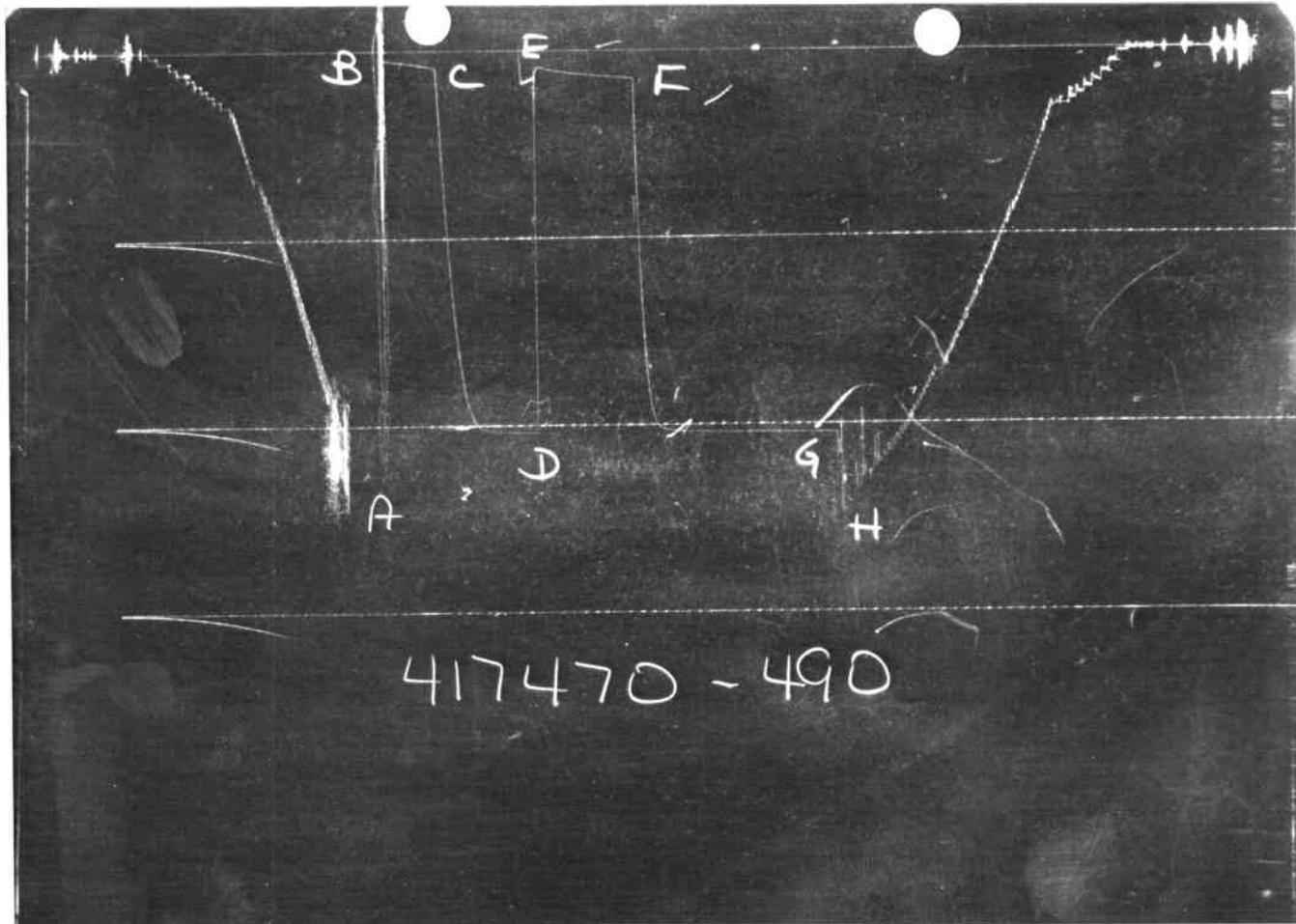
B C E F

D G H

47470 - 490

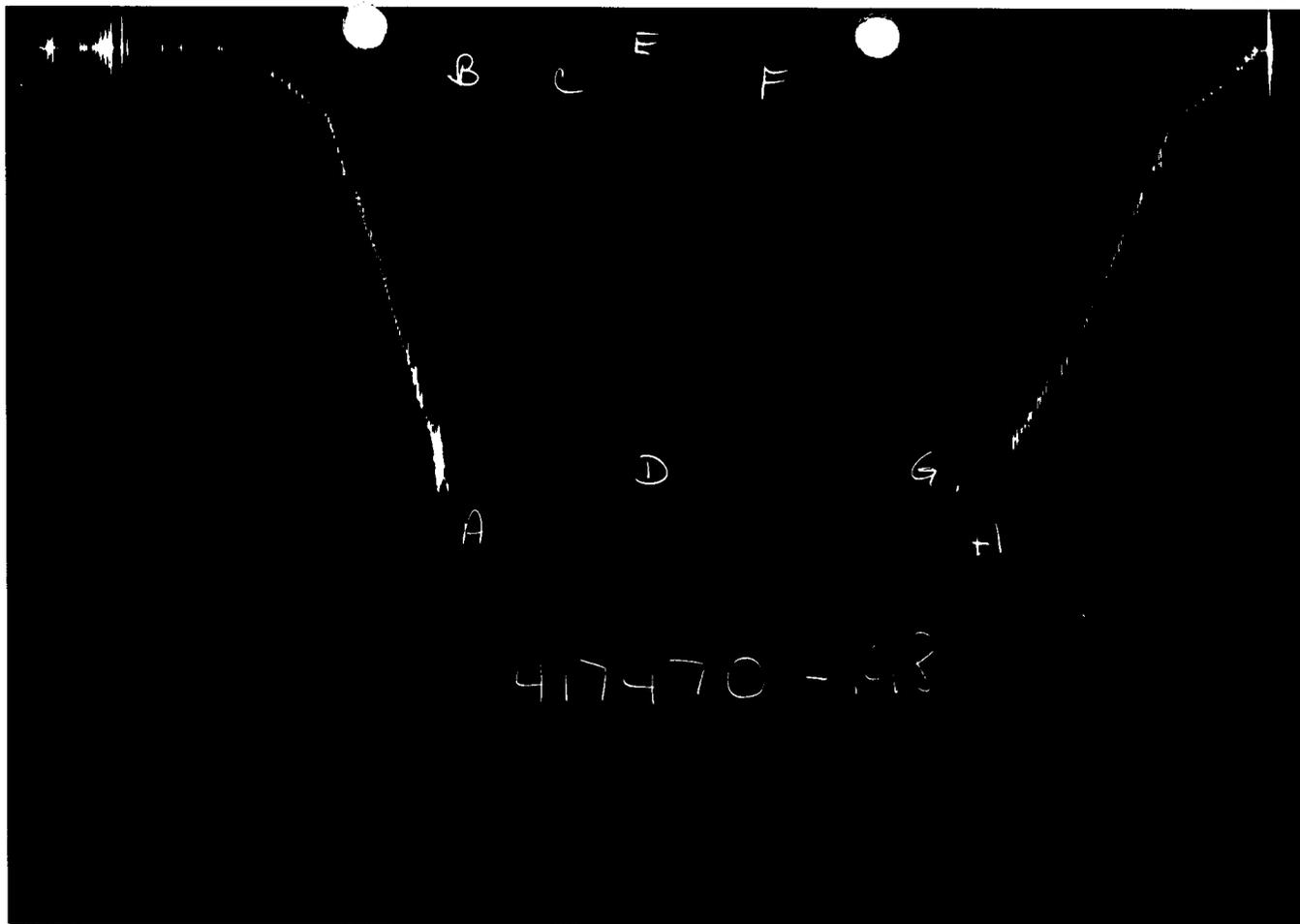
GAUGE NO: 490 DEPTH: 4670.0 BLANKED OFF: NO HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2263	2267.6			
B	INITIAL FIRST FLOW	40	51.0			
C	FINAL FIRST FLOW	94	91.0	33.0	32.0	F
C	INITIAL FIRST CLOSED-IN	94	91.0			
D	FINAL FIRST CLOSED-IN	2037	2041.5	60.0	59.4	C
E	INITIAL SECOND FLOW	94	91.0			
F	FINAL SECOND FLOW	148	150.0	60.0	60.6	F
F	INITIAL SECOND CLOSED-IN	148	150.0			
G	FINAL SECOND CLOSED-IN	2037	2044.8	120.0	121.0	C
H	FINAL HYDROSTATIC	2276	2280.2			
I	HYDROSTATIC RELEASE					



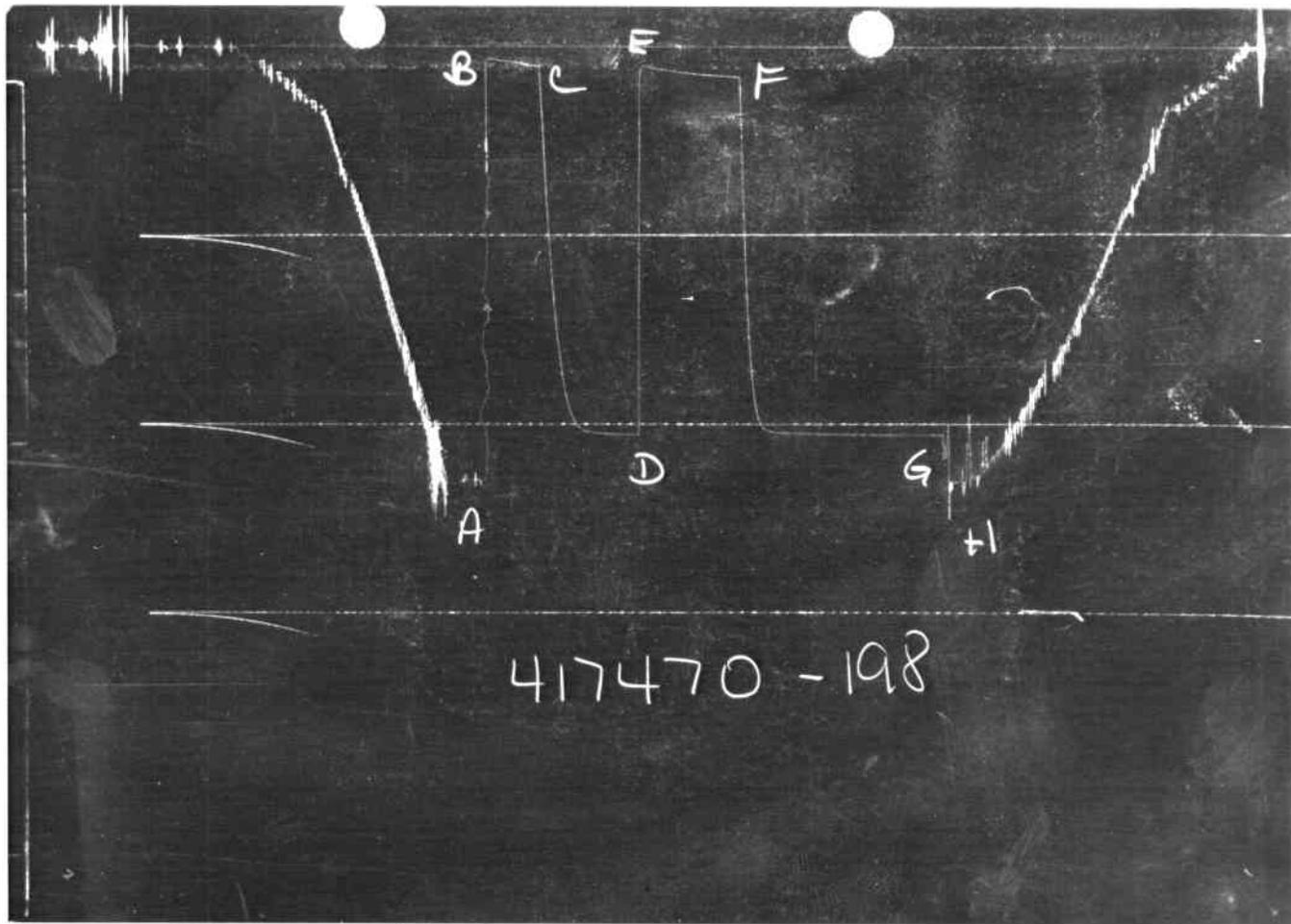
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ID	DESCRIPTION	PRESSURE	TIME	
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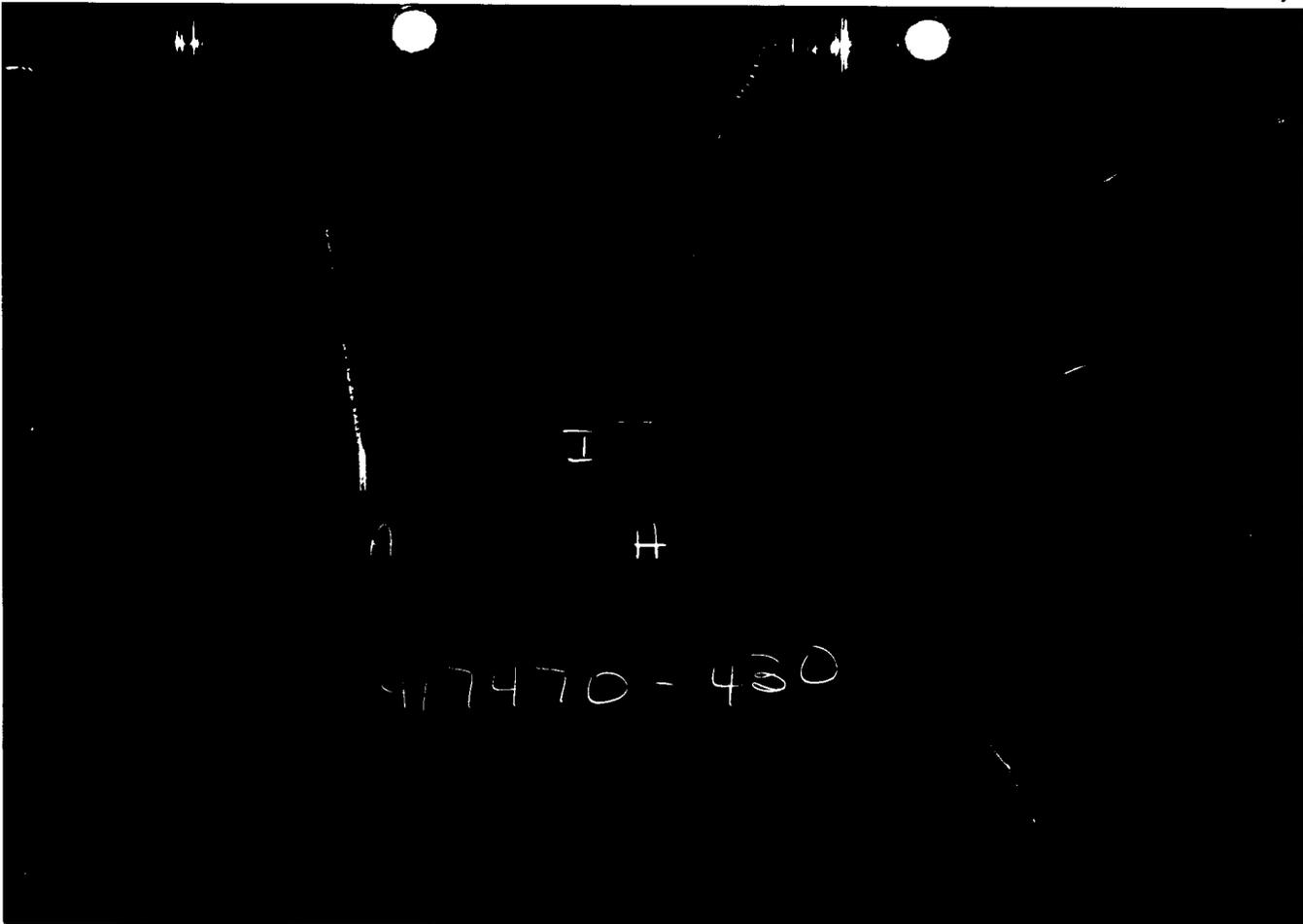
GAUGE NO: 198 DEPTH: 4730.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2294	2296.3			
B	INITIAL FIRST FLOW	67	62.5			
C	FINAL FIRST FLOW	107	104.9	33.0	32.0	F
C	INITIAL FIRST CLOSED-IN	107	104.9			
D	FINAL FIRST CLOSED-IN	2057	2058.0	60.0	59.4	C
E	INITIAL SECOND FLOW	107	102.4			
F	FINAL SECOND FLOW	160	162.3	60.0	60.6	F
F	INITIAL SECOND CLOSED-IN	160	162.3			
G	FINAL SECOND CLOSED-IN	2057	2060.8	120.0	121.0	C
H	FINAL HYDROSTATIC	2294	2309.6			
I	HYDROSTATIC RELEASE					



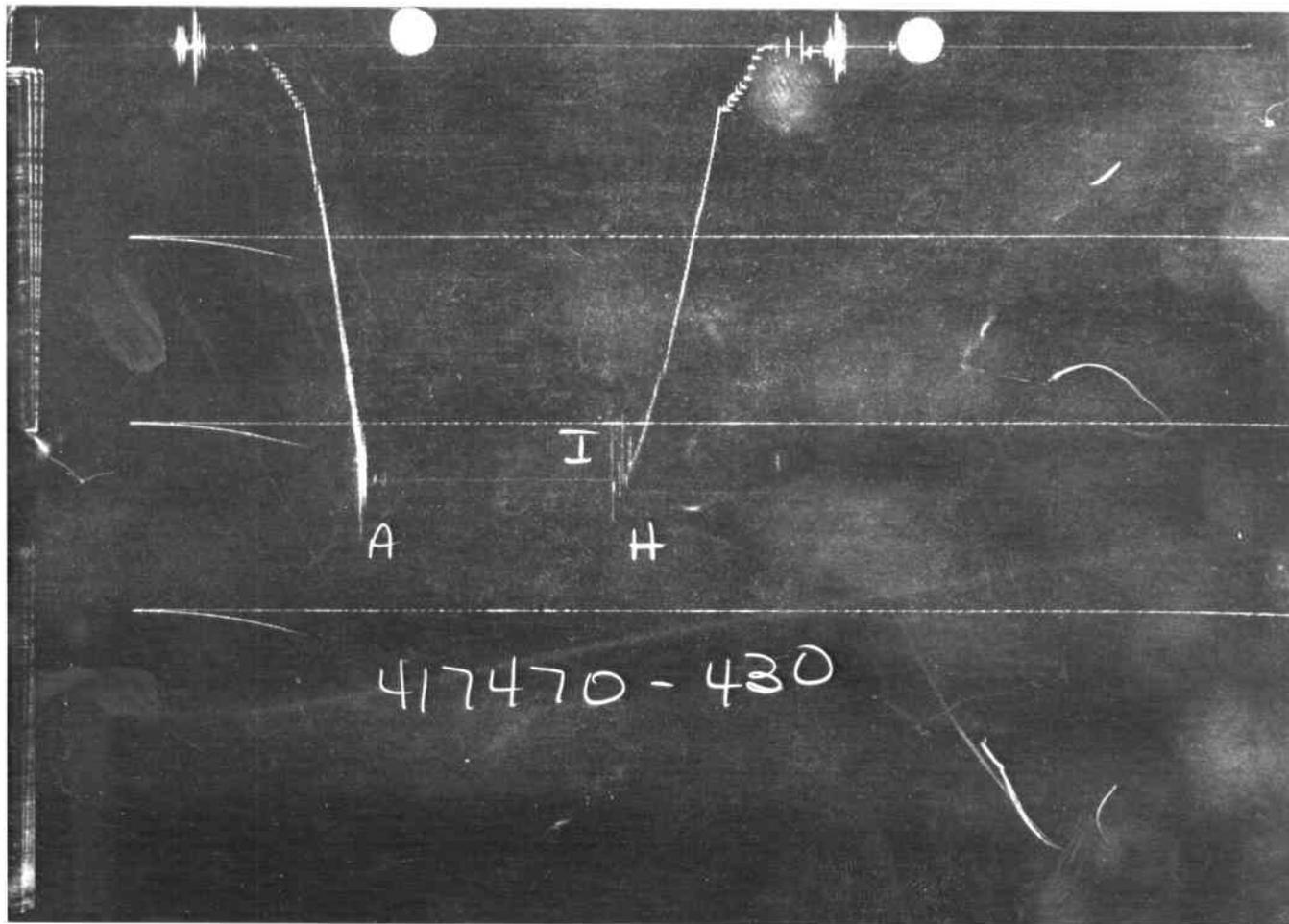
GAUGE NO: 198 DEPTH: 4730.0 BLANKED OFF: YES HOUR OF CLOCK: 12

ID	DESCRIPTION	PRESSURE	TIME



GAUGE NO: 430 DEPTH: 4752.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2323	2311.1			
B	INITIAL FIRST FLOW			33.0		F
C	FINAL FIRST FLOW					
C	INITIAL FIRST CLOSED-IN			60.0		C
D	FINAL FIRST CLOSED-IN					
E	INITIAL SECOND FLOW			60.0		F
F	FINAL SECOND FLOW					
F	INITIAL SECOND CLOSED-IN			120.0		C
G	FINAL SECOND CLOSED-IN					
H	FINAL HYDROSTATIC	2310	2323.9			
I	HYDROSTATIC RELEASE		2308.9			



GAUGE NO: 430 DEPTH: 4752.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE	TIME	
----	-------------	----------	------	--

EQUIPMENT & HOLE DATA

FORMATION TESTED: WASATCH
 NET PAY (ft): 28.0
 GROSS TESTED FOOTAGE: 43.0
 ALL DEPTHS MEASURED FROM: KB
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 5939.0 KELLY BUSHING
 TOTAL DEPTH (ft): 5693.0
 PACKER DEPTH(S) (ft): 4686, 4692, 4735
 FINAL SURFACE CHOKE (in): 0.25000
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.20
 MUD VISCOSITY (sec): 50
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 121 @ 4746.0 ft

TICKET NUMBER: 41747000

DATE: 10-29-86 TEST NO: 1

TYPE DST: OFF BTM STRADDLE

HALLIBURTON CAMP:
VERNAL

TESTER: RANDY RIPPLE

WITNESS: RANDY WALCK

DRILLING CONTRACTOR:
OLSON DRILLING #5

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
MUD PIT	<u>2.160 @ 68 °F</u>	<u>1060 ppm</u>
RECOVERY MUD	<u>2.080 @ 68 °F</u>	<u>1757 ppm</u>
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm
_____	_____ °F	_____ ppm

SAMPLER DATA

Pstg AT SURFACE: 150.0
 cu.ft. OF GAS: 0.880
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: 400.0
 TOTAL LIQUID cc: 400.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE AMOUNT WEIGHT

RECOVERED:
138 FEET OF DRILLING MUD

MEASURED FROM
TESTER VALVE

REMARKS:

TICKET NO: 41747000
 CLOCK NO: 6744 HOUR: 12



GAUGE NO: 490
 DEPTH: 4670.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	51.0			
2	2.0	51.1	0.1		
3	4.0	53.6	2.5		
4	6.0	57.1	3.5		
5	8.0	58.7	1.6		
6	10.0	60.5	1.7		
7	12.0	63.2	2.7		
8	14.0	65.0	1.9		
9	16.0	67.3	2.3		
10	18.0	70.0	2.7		
11	20.0	72.4	2.4		
12	22.0	75.8	3.4		
13	24.0	79.3	3.5		
14	26.0	82.2	2.9		
15	28.0	85.6	3.4		
16	30.0	90.0	4.4		
C 17	32.0	91.0	1.1		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST CLOSED-IN					
C 1	0.0	91.0			
2	1.0	258.0	166.9	1.0	1.511
3	2.0	417.0	325.9	1.9	1.230
4	3.0	578.7	487.7	2.7	1.068
5	4.0	738.4	647.4	3.6	0.949
6	5.0	871.7	780.7	4.3	0.868
7	6.0	1002.8	911.7	5.0	0.803
8	7.0	1129.1	1038.1	5.7	0.745
9	8.0	1244.7	1153.7	6.4	0.699
10	9.0	1344.2	1253.1	7.0	0.658
11	10.0	1446.7	1355.7	7.6	0.623
12	12.0	1609.5	1518.5	8.7	0.564
13	14.0	1737.2	1646.1	9.7	0.516
14	16.0	1836.0	1744.9	10.7	0.477
15	18.0	1911.1	1820.1	11.5	0.443
16	20.0	1958.7	1867.7	12.3	0.414
17	22.0	1988.9	1897.9	13.0	0.390
18	24.0	2008.9	1917.8	13.7	0.368
19	26.0	2019.0	1927.9	14.3	0.348
20	28.0	2025.5	1934.5	14.9	0.331
21	30.0	2029.5	1938.4	15.5	0.315
22	35.0	2034.3	1943.2	16.7	0.282
23	40.0	2037.5	1946.4	17.8	0.255
24	45.0	2038.8	1947.8	18.7	0.233
25	50.0	2039.7	1948.7	19.5	0.215
26	55.0	2041.1	1950.0	20.2	0.199
D 27	59.4	2041.5	1950.4	20.8	0.187

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW					
E 1	0.0	91.0			
2	3.0	91.3	0.3		
3	6.0	97.1	5.8		
4	9.0	105.0	7.9		
5	12.0	109.1	4.2		
6	15.0	112.6	3.5		
7	18.0	116.5	3.9		
8	21.0	120.5	4.0		
9	24.0	124.1	3.6		
10	27.0	126.7	2.5		
11	30.0	128.6	1.9		
12	33.0	131.2	2.7		
13	36.0	133.4	2.1		
14	39.0	136.3	2.9		
15	42.0	137.9	1.6		
16	45.0	139.4	1.5		
17	48.0	141.4	2.0		
18	51.0	143.3	1.9		
19	54.0	145.3	2.0		
20	57.0	147.3	2.0		
F 21	60.6	150.0	2.7		

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN					
F 1	0.0	150.0			
2	1.0	486.7	336.7	1.0	1.975
3	2.0	798.9	648.9	1.9	1.685
4	3.0	1097.0	947.0	2.9	1.499
5	4.0	1288.7	1138.6	3.8	1.382
6	5.0	1460.1	1310.1	4.7	1.291
7	6.0	1615.1	1465.0	5.6	1.215
8	7.0	1722.1	1572.1	6.5	1.154
9	8.0	1807.2	1657.2	7.3	1.101
10	9.0	1881.1	1731.1	8.2	1.054
11	10.0	1927.6	1777.6	9.0	1.011
12	12.0	1983.7	1833.7	10.7	0.939
13	14.0	2008.2	1858.2	12.2	0.882
14	16.0	2019.5	1869.5	13.6	0.832
15	18.0	2026.3	1876.3	15.1	0.789
16	20.0	2029.1	1879.1	16.4	0.751
17	22.0	2032.0	1882.0	17.8	0.717
18	24.0	2033.4	1883.3	19.1	0.686
19	26.0	2034.8	1884.8	20.3	0.659
20	28.0	2035.6	1885.6	21.5	0.634
21	30.0	2036.7	1886.7	22.7	0.611
22	35.0	2037.7	1887.7	25.4	0.562
23	40.0	2038.8	1888.8	27.9	0.520
24	45.0	2039.9	1889.9	30.3	0.485
25	50.0	2040.7	1890.7	32.5	0.455
26	55.0	2041.1	1891.1	34.5	0.429
27	60.0	2042.1	1892.1	36.4	0.405

REMARKS:

TICKET NO: 41747000
 CLOCK NO: 6744 HOUR: 12



GAUGE NO: 490
 DEPTH: 4670.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
28	70.0	2042.5	1892.5	39.9	0.366
29	80.0	2043.3	1893.3	42.9	0.334
30	90.0	2043.7	1893.7	45.6	0.307
31	100.0	2044.5	1894.5	48.1	0.285
32	110.0	2044.5	1894.5	50.3	0.265
33	120.0	2045.1	1895.0	52.3	0.248
G 34	121.0	2044.8	1894.8	52.5	0.247

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

REMARKS:

TICKET NO: 41747000

CLOCK NO: 3806 HOUR: 12



GAUGE NO: 198

DEPTH: 4730.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	62.5		
	2	2.0	62.5	0.0	
	3	4.0	66.8	4.3	
	4	6.0	70.1	3.3	
	5	8.0	72.7	2.5	
	6	10.0	75.2	2.5	
	7	12.0	77.3	2.1	
	8	14.0	79.3	2.0	
	9	16.0	81.5	2.1	
	10	18.0	83.7	2.3	
	11	20.0	87.1	3.3	
	12	22.0	90.4	3.3	
	13	24.0	93.7	3.3	
	14	26.0	97.1	3.3	
	15	28.0	100.0	2.9	
	16	30.0	102.7	2.7	
C	17	32.0	104.9	2.3	
FIRST CLOSED-IN					
C	1	0.0	104.9		
	2	1.0	282.7	177.8	1.0 1.502
	3	2.0	436.6	331.6	1.9 1.226
	4	3.0	607.5	502.6	2.8 1.064
	5	4.0	762.5	657.6	3.6 0.953
	6	5.0	902.6	797.7	4.4 0.865
	7	6.0	1046.7	941.8	5.1 0.798
	8	7.0	1163.0	1058.1	5.8 0.744
	9	8.0	1275.6	1170.7	6.4 0.700
	10	9.0	1386.0	1281.0	7.0 0.656
	11	10.0	1478.4	1373.4	7.6 0.622
	12	12.0	1631.5	1526.6	8.7 0.563
	13	14.0	1762.7	1657.8	9.8 0.516
	14	16.0	1859.0	1754.1	10.7 0.477
	15	18.0	1923.1	1818.2	11.5 0.443
	16	20.0	1970.5	1865.6	12.3 0.414
	17	22.0	2000.9	1896.0	13.0 0.390
	18	24.0	2021.7	1916.7	13.7 0.367
	19	26.0	2034.6	1929.6	14.3 0.348
	20	28.0	2040.6	1935.7	14.9 0.331
	21	30.0	2044.4	1939.5	15.5 0.315
	22	35.0	2050.4	1945.4	16.7 0.282
	23	40.0	2053.3	1948.3	17.8 0.255
	24	45.0	2055.0	1950.0	18.7 0.233
	25	50.0	2056.9	1952.0	19.5 0.215
	26	55.0	2057.9	1952.9	20.2 0.199
D	27	59.4	2058.0	1953.1	20.8 0.187

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND FLOW					
E	1	0.0	102.4		
	2	3.0	102.9	0.5	
	3	6.0	106.4	3.5	
	4	9.0	114.4	8.0	
	5	12.0	119.2	4.8	
	6	15.0	123.1	3.9	
	7	18.0	127.1	4.0	
	8	21.0	130.7	3.6	
	9	24.0	134.4	3.7	
	10	27.0	138.4	4.0	
	11	30.0	140.0	1.6	
	12	33.0	143.2	3.2	
	13	36.0	146.4	3.2	
	14	39.0	148.8	2.4	
	15	42.0	151.2	2.4	
	16	45.0	152.7	1.5	
	17	48.0	154.9	2.3	
	18	51.0	156.4	1.5	
	19	54.0	157.9	1.5	
	20	57.0	159.7	1.9	
F	21	60.6	162.3	2.5	
SECOND CLOSED-IN					
F	1	0.0	162.3		
	2	1.0	447.9	285.7	1.0 1.955
	3	2.0	775.3	613.0	2.0 1.674
	4	3.0	1078.5	916.3	2.9 1.497
	5	4.0	1283.5	1121.3	3.8 1.385
	6	5.0	1495.9	1333.7	4.8 1.286
	7	6.0	1630.9	1468.7	5.6 1.217
	8	7.0	1739.0	1576.7	6.5 1.154
	9	8.0	1830.8	1668.6	7.4 1.099
	10	9.0	1897.4	1735.2	8.2 1.053
	11	10.0	1944.7	1782.4	9.0 1.011
	12	12.0	1998.8	1836.5	10.6 0.941
	13	14.0	2024.8	1862.6	12.2 0.881
	14	16.0	2034.8	1872.6	13.6 0.832
	15	18.0	2041.0	1878.8	15.1 0.789
	16	20.0	2044.8	1882.6	16.5 0.750
	17	22.0	2047.1	1884.8	17.8 0.717
	18	24.0	2048.5	1886.3	19.0 0.687
	19	26.0	2049.4	1887.2	20.3 0.659
	20	28.0	2050.6	1888.4	21.5 0.634
	21	30.0	2051.4	1889.2	22.7 0.611
	22	35.0	2052.9	1890.6	25.4 0.562
	23	40.0	2054.0	1891.8	27.9 0.521
	24	45.0	2055.2	1893.0	30.3 0.485
	25	50.0	2056.0	1893.8	32.5 0.455
	26	55.0	2056.7	1894.4	34.5 0.429
	27	60.0	2057.3	1895.1	36.4 0.405

REMARKS:

TICKET NO: 41747000
 CLOCK NO: 3806 HOUR: 12



GAUGE NO: 198
 DEPTH: 4730.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
28	70.0	2058.4	1896.1	39.9	0.366
29	80.0	2059.3	1897.1	42.9	0.334
30	90.0	2060.0	1897.7	45.6	0.307
31	100.0	2060.5	1898.2	48.1	0.285
32	110.0	2060.5	1898.2	50.3	0.265
33	120.0	2060.9	1898.6	52.3	0.248
G 34	121.0	2060.8	1898.5	52.5	0.247

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$

REMARKS:

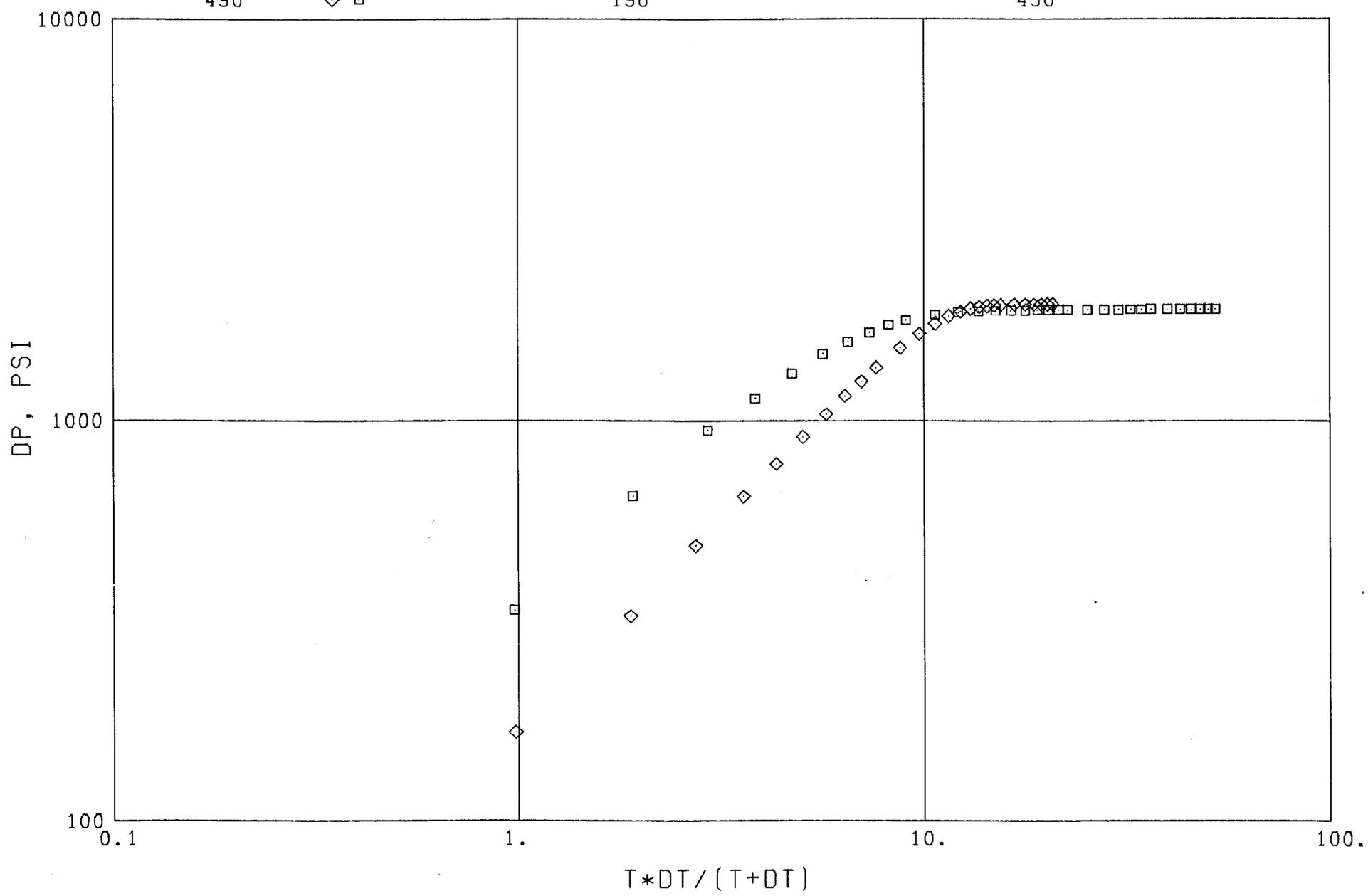
		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.000	3.340	4783.0	
3		DRILL COLLARS.....	6.000	2.250	542.7	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	4595.0
3		DRILL COLLARS.....	6.000	2.250	61.4	
5		CROSSOVER.....	5.250	2.250	0.6	
13		DUAL CIP SAMPLER.....	5.000	0.750	7.0	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	4668.0
80		AP RUNNING CASE.....	5.000	2.250	4.2	4670.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
17		PRESSURE EQUALIZING CROSSOVER...	5.000	0.750	1.0	
70		OPEN HOLE PACKER.....	7.000	1.530	5.8	4686.0
70		OPEN HOLE PACKER.....	7.000	1.530	5.8	4692.0
20		FLUSH JOINT ANCHOR.....	5.750	3.500	31.0	
17		PRESSURE EQUALIZING CROSSOVER...	5.750	0.750	4.7	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4730.0
70		OPEN HOLE PACKER.....	7.000	1.530	7.4	4735.0
20		FLUSH JOINT ANCHOR.....	5.000	2.250	5.0	
90		SIDE WALL ANCHOR.....	6.750	1.630	4.8	4747.0
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	4752.0
TOTAL DEPTH					5693.0	

EQUIPMENT DATA

GAUGE NO CIP 1 2
490 ◇ □

GAUGE NO CIP 1 2
198

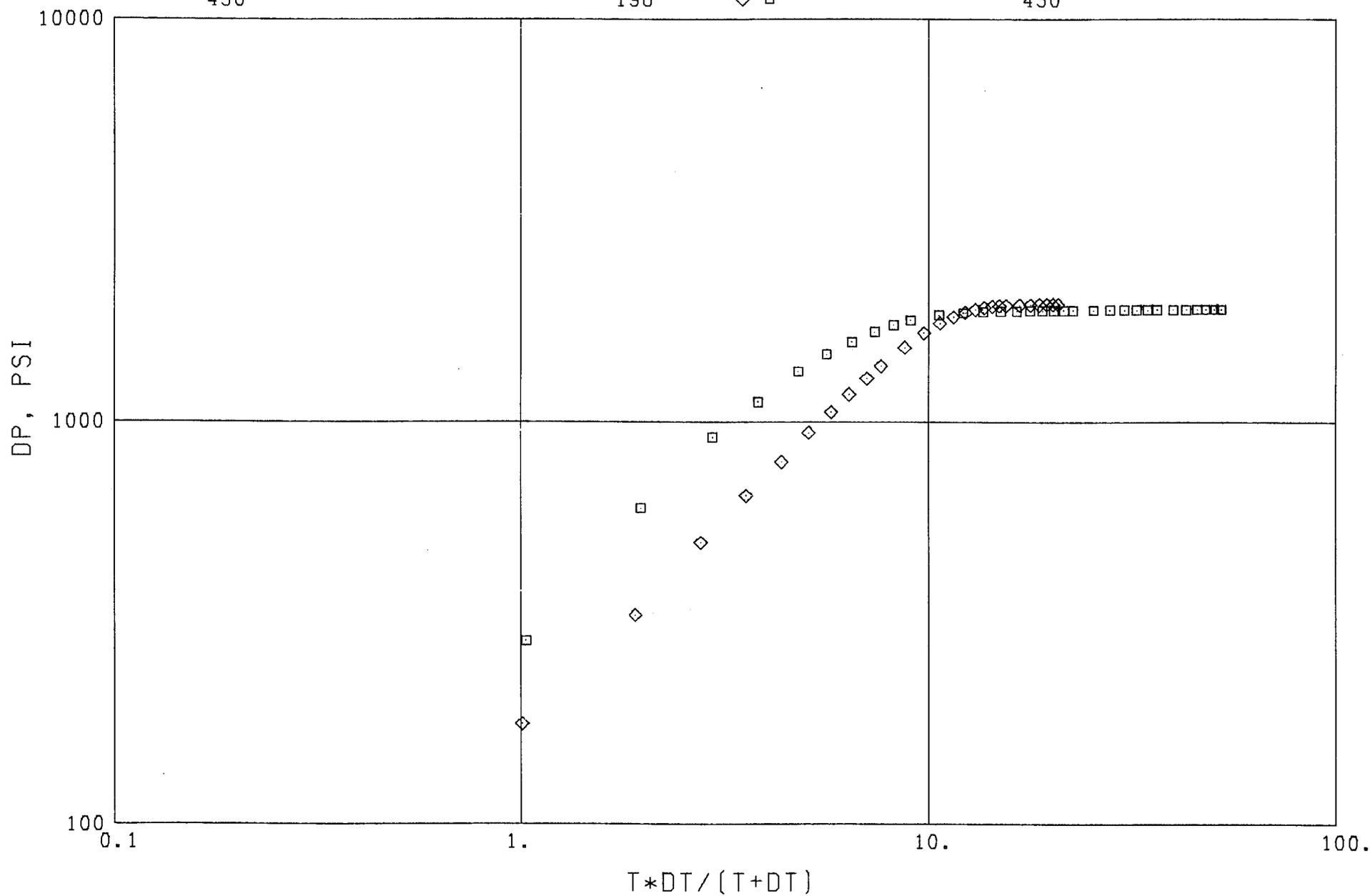
GAUGE NO CIP 1 2
430



GAUGE NO CIP 1 2
490

GAUGE NO CIP 1 2
198 \diamond \square

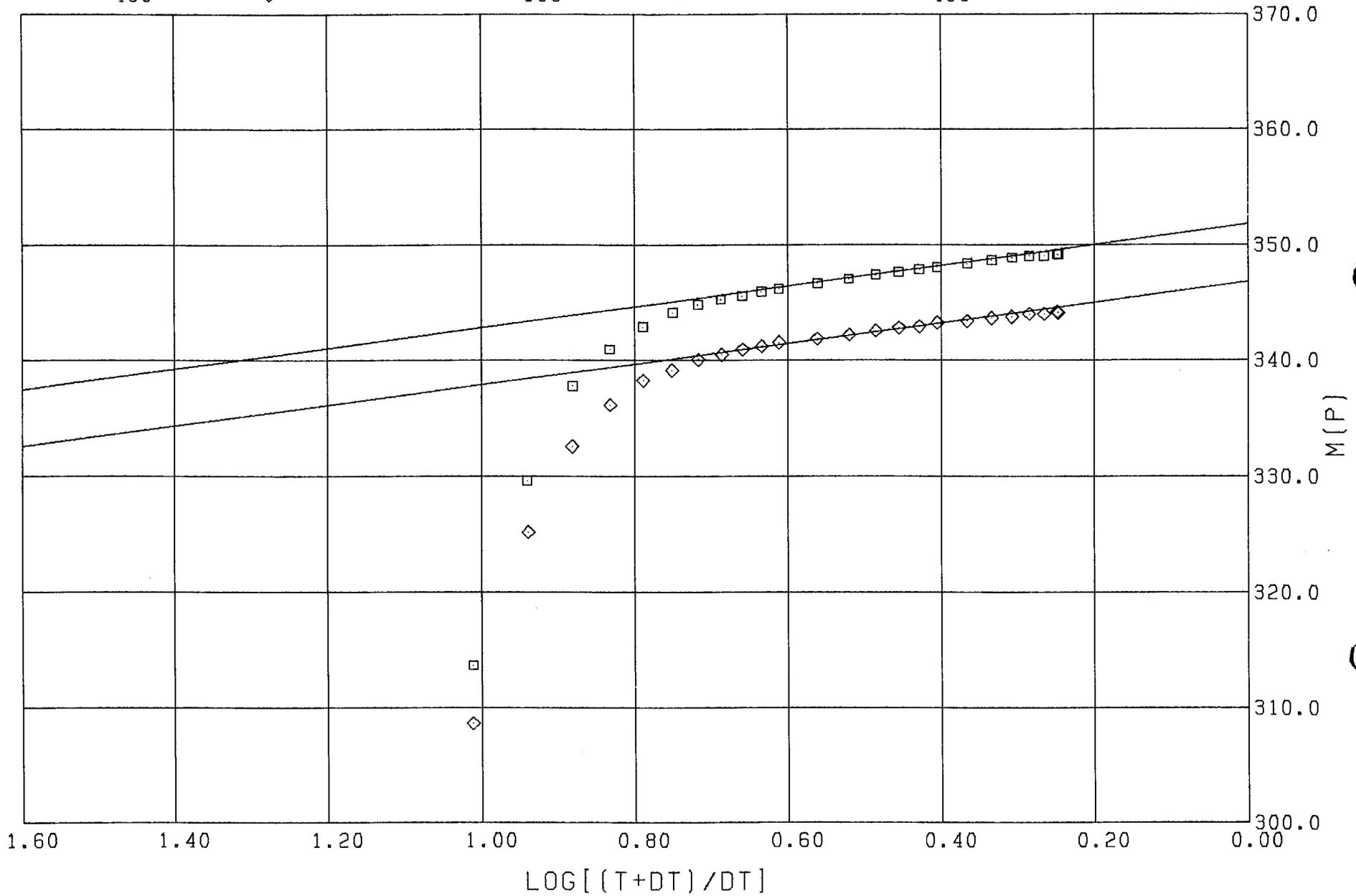
GAUGE NO CIP 1 2
430



GAUGE NO CIP 1 2
490 ◇

GAUGE NO CIP 1 2
198 □

GAUGE NO CIP 1 2
430



SUMMARY OF RESERVOIR PARAMETERS USING HORNER METHOD FOR GAS WELLS

GAS GRAVITY _____	0.600	TEMPERATURE _____	121.0 °F
NET PAY _____	28.0 ft	POROSITY _____	10.0 %
RADIUS OF WELL BORE _____	0.328 ft	VISCOSITY _____	0.016 cp
GAS DEVIATION FACTOR _____	0.842	GAS PROPERTIES AT _____	2067.2 psig
SYSTEM COMPRESSIBILITY _____ $\times 10^{-6}$ vol/vol/psl			

GAUGE NUMBER	490	198					
GAUGE DEPTH	4670.0	4730.0					
FLOW AND CIP PERIOD	2	2					UNITS
FINAL FLOW PRESSURE	150.0	162.3					psig
TOTAL FLOW TIME	92.6	92.6					min
CALC. STATIC PRESSURE P^*	2053.3	2069.2					psig
EXTRAPOLATED PRESSURE $m(P^*)$	346.8	351.8					$\frac{m\text{psl}^2}{\text{cp}}$
ONE CYCLE PRESSURE $m(P_{10})$	337.9	342.8					$\frac{m\text{psl}^2}{\text{cp}}$
PRODUCTION RATE Q	148.7	148.7					MCFD
FLOW CAPACITY kh	15.8983	15.7690					md-ft
PERMEABILITY k	0.56780	0.56318					md
SKIN FACTOR S	40.1	40.3					
DAMAGE RATIO DR	10.1	10.2					
INDICATED RATE MAX AOF_1	149.8	149.9					MCFD
INDICATED RATE MIN AOF_2	149.3	149.3					MCFD
THEORETICAL RATE $DR \times AOF_1$	1516.1	1527.1					MCFD
THEORETICAL RATE $DR \times AOF_2$	1510.3	1520.8					MCFD
RADIUS OF INVESTIGATION r_t	37.3	37.2					ft

REMARKS:

NOTICE: THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

**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 _____

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

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR
1800 Lincoln Center Building, Denver

4. LOCATION OF WELL (Report location clearly and in accordance with State requirements)*
At surface 2016' FNL & 722' FEL (SE, NE)
At top prod. interval reported below Same

At total depth Same

REC-580264
NOV 25 1986
DIVISION OF OIL, GAS & MINING
43-047-31743 | 9-25-86

5. LEASE DESIGNATION AND SERIAL NO.

U-54196

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Cracker Federal

9. WELL NO.

#4

10. FIELD AND POOL, OR WILDCAT

Rockhouse

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

Sec. 7-T11S-R23E

12. COUNTY OR PARISH

Utah

13. STATE

Utah

15. DATE SPUDDED 10/14/86	16. DATE T.D. REACHED 10/28/86	17. DATE COMPL. (Ready to prod.) 11/9/86	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5939' KB	19. ELEV. CASINGHEAD 5928'
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20. TOTAL DEPTH, MD & TVD 5693'	21. PLUG, BACK T.D., MD & TVD 5140'	22. IF MULTIPLE COMPL., HOW MANY* N/A	23. INTERVALS DRILLED BY →	ROTARY TOOLS 0-5693'	CABLE TOOLS 0
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24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
4692-4716 Wasatch

25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
GR-SP-DIL; GR-CAL-FDC-CNL

27. WAS WELL CORED
No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	306'	12-1/4"	90 sx light & 50 sx C1	A" None
4-1/2"	10.5#	2278'	7-7/8"		
4-1/2"	11.6#	5324'	7-7/8"	725 sx 50/50 poz	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					None		

31. PERFORATION RECORD (Interval, size and number)	32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5170-5182 .32" 24 shots	5170-5182'	Acidize w/ 1000 gals 15% W/N2
4692-4716' .32" 48 shots	5140-5150'	CIBP @ 5150' 2 sx cmt 5140-50'
	4692-4716'	Acidize w/ 2000 gals 15% w/ N2
	4692-4716'	Frac 49,000 gals CO2 Foam &

33.* PRODUCTION 96,000 #20/40 sd.

DATE FIRST PRODUCTION SI, WOPL

PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing

WELL STATUS (Producing or shut-in) SI, WOPL

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
11/9/86	6 hrs	24/64"	→	-	947	-	-

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
No tbg	1100#	→	-	3788	-	N/A

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

TEST WITNESSED BY Randy Walck

35. LIST OF ATTACHMENTS
Well History

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

SIGNED Russ E. Gillis TITLE Petroleum Engineer DATE 11/19/86
RUSSE E. GILLIS

*(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		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Wasatch	4692'	4735'	<p>DST #1: FFP, 10 w/ strong blow. Increased to 30# on 1/8" ch. No GIS. FFP, 10 w/ 35# on 1/4" ch. GIS in 8 min. Pressure increased to 101# at end of period FARO 149 MCFD.</p> <p>Rec: 138' mud. IHHP 2294#, 30 min IFF 67-107#, 60 min ISIP 2057#, 60 min FFP 107-160#, 120 min FSIP 2057#, FHHP 2294#.</p>
			NAME
			MEAS. DEPTH
			TRUE VERT. DEPTH
			Green River Wasatch Mesa Verde
			885 3746 5646
			- - - - - - - - -

WELL NAME:	Cracker Federal #4	PTD:	5700'
AREA:	Rockhouse	ELEVATIONS:	5939' KB, 5925' GL
LOCATION:	Section 7-T11S-R23E	CONTRACTOR:	Olsen
COUNTY:	Uintah	AFE NUMBER:	862442
STATE:	Utah	LSE NUMBER:	76341
FOOTAGE:	2016' FNL & 722' FEL	TXO WI:	100%

10/25/86 4884' (357'), drlg. 8.9, 35, 7. Drill ahead w/ following shows:

<u>Interval</u>	<u>Min/Ft</u>	<u>Units Gas</u>
4600-4610	2-1.5-2.5	5-25-5
4705-4735	4-.7-4	5-650-10

DW: 7122. CW: 106,976. DD 11.

10/26/86 5136' (252'), Survey. 9.0, 41, 6. $\frac{1}{2}^\circ$ @ 5136'.

<u>Interval</u>	<u>Min/Ft</u>	<u>Units Gas</u>
4930-40	4 $\frac{1}{2}$ -1 $\frac{1}{2}$ -6	5-275-5
5030-45	6-4-6	5-20-5

DW: 6627. CW: 113,603. DD 12.

10/27/86 5300' (164'), drlg. 9.0, 39, 6.8. Drlg. Repair draw works. Drill to 5276'. TFB #4. Tight hole @ 5276'-4300'. TIH. Wash & ream 100' to btm.

<u>Interval</u>	<u>Min/Ft</u>	<u>Units Gas</u>
5185-5195	5-1-5	1-250-5.

DW: 4461. CW: 118,064. DD 13.

10/28/86 5527' (227'), drlg. Wasatch. 9, 40, 6.4, 10.5. Drlg shows: DW: 3731. CW: 122,795. DD 14.

<u>Interval</u>	<u>Min/Ft.</u>	<u>Gas Units</u>
5415-30'	6-1.2-8	2-100-8

10/29/86 5693' (166'), logging. Mesa Verde. 9.2, 50, 5.6, 10.5. 1-1/2° @ 5693'. TD 7-7/8" hole @ 8:35 PM 10/28/86. Circ. ST. Tight hole from 5650-5500'. Circ & cond. TOOH. No tite spots. RU GO & log. Loggers TD 5680'. Mesa Verde Top @ 5646'. Drlg brk @ 5655-60', 7-4-8 MPF. 3-40-5 gas units. DW: 4612. CW: 127,407. DD 15.

10/30/86 5693' (0'), TIH to circ & cond to run csg. Mesa Verde. 9.2, 50, 5.6, 10.5. Log. PU DST tools. TIH. Run DST #1 from 4692-4735', Wasatch. IFP, TO w/ strong blow. Increased to 30# on 1/8" ch. No gas to surface. FFP, TO w/ 35# on 1/4" ch. GTS in 8 min. Pressure increased to 101# @ end of period. FARO 149 MCFD. Rec 138' mud. IHHP 2294#, (30 min) IFP 67-107#, (60 min) ISIP 2057#, (60 min) FFP 107-160#, (120 min) FSIP 2057#, FHHP 2294#. BHSC @ 150#, 400 cc mud & .88 cu ft gas. Fm damaged. Test was successful. TOOH. BD test tools. TIH. DW: 7116. CW: 134,523.

10/31/86 5693' (0'), RD & MO RT. Mesa Verde. TIH. Circ & cond. TOOH & LD DP & DC. RIH w/ cmt guide shoe (.78'), 1 jt 4-1/2", 11.6#, N-80, LT&C, R-3, C-B csg (40.32'), float collar (.90'), 64 jts 4-1/2" csg as above (2488.95'), 12 jts 4-1/2", 11.6#, J-55, LT&C, R-3, C-A csg (516.33'), 55 jts 4-1/2", 10.5#, K-55, ST&C, R-3, C-B csg (2242.24'), 1 jt 4-1/2", 11.6#, N-80, LT&C, R-3, C-A csg (36.58'). Shoe @ 5325'. Float @ 5283'. Circ 6 hrs. WO BJ Titan. RU BJ & pump 10 bbls 3% KCL wtr & 15 bbls mud flush w/ 50 sx fly ash. Cmt w/ 725 sx 50/50 poz w/ 1/4#/~~sx~~ celloseal, .5% FLA, & 5% salt. Displ w/ 83-1/2 bbls 3% KCL wtr. BP w/ 1800#. PD @ 12:10 AM 10/31/86. Full returns. Float held. ND BOP. Cut off csg & set slips. RR @ 2 AM 10/31/86. Drop from report until completion begins. DW: 37,629. CW: 172,152. DD 17.

11/04/86 5283' PBD, MI & RU WU. NU tbg head & BOP. Test tbg & csg to 2000# for 15 min. All held. Run 3.875' gauge ring to 5236'. TOOH. SDFN. DW: 8285. CW: 180,437.

WELL NAME:	Cracker Federal #4	PTD:	5700'
AREA:	Rockhouse	ELEVATIONS:	5939' KB, 5925' GL
LOCATION:	Section 7-T11S-R23E	CONTRACTOR:	Olsen
COUNTY:	Uintah	AFE NUMBER:	862442
STATE:	Utah	LSE NUMBER:	76341
FOOTAGE:	2016' FNL & 722' FEL	TXO WI:	100%

11/05/86 5220' PBTB, RU & swab FL dn to 1500'. RU McCullough. Ran GR-CCL log from 5220' to 3500'. RIH w/ 3-1/8" csg gun & perf 5170-5182', 2 JSPF (24 holes). No reaction. RU & csg swab. IFL @ 1500'. Swab dn to 5150'. GTS on last run. RU Dowell. Pump 1000 gal 15% MSR 100 w/ 1000 SCF/bbl N2. Drop 60 (7/8") RCN ball sealers throughout job. ATR 8 BPM. MTP 4100#. ATP 3300#. End job @ 3300# & 2 BPM. ISDP 2800#, 15 min 2700#. 65 BLWTBR. Open well to pit. Rec 35 bbls in 1-1/2 hrs. LWOTPON. SDFN. 30 BLWTBR. DW: 6046. CW: 186,483.

11/06/86 5140' PBTB, well flowing w/ 2' lazy flare. RU & swab. IFL @ 1650'. Pull 10 runs. FFL @ 4600'. Rec 9 BW per run. Rec total of 75 BW (45 bbls over load). 3-5' lazy flare after swab. RU McCullough. Set 4-1/2" CIBP @ 5150'. Load hole w/ 3% KCL wtr. Test plug to 2500# for 10 min. All held. Dump bail 2 sx cmt. PBTB @ 5140'. RU & swab FL to 1500'. RIH w/ 3-1/8" csg gun & perf from 4692-4716' w/ 2 JSPF (48 holes, .32" dia). No reaction. RU & swab. IFL @ 1200'. Swab FL to 3600'. Last run slightly gas cut. LOTPON. SDFN. This AM well flowing w/ 10' bright orange flare. DW: 4398. CW: 190,881.

11/07/86 5140' PBTB, well flowing w/ 10' flare. RU & swab. IFL @ 2320'. Swab 1 run & well unloaded slugs of fluid. RU Dowell & acidize w/ 2000 gals 15% MSR-100 w/ 1000 SCF N2/bbl dropping 125 (7/8") RCN ball sealers throughout job. ATR 8 BPM. ATP 1800#. MTP 4000#. Good ball action. ISDP 4000#. 5 min 4000#. Open well to pit. Died in 1/2 hr. RU & swab. IFL @ 2350'. Make wiper run through perms. Well dried up & flowed @ 500 MCFD against atmosphere. RU Dowell & frac dn csg w/ 49,000 gal 70Q CO2 foam & 96,000# 20/40 sd @ 18 BPM. ATP 2800#. MTP 3270#. ISDP 1980#. 5 min 1730#. 10 min 1680#. 15 min 1650#. SWI 4 hrs. Open to pit on 3/16" ch w/ 1700#. Dropped to 1400# in 3 hrs. No sd. Install 3/8" ch. Flowing w/ heavy mist & tr sd. LWOTPON. SDFN. 350 BLWTBR. DW: 44,506. CW: 235,387.

11/08/86 5140' PBTB, flowing on 3/8" ch w/ 1100#, med mist, & tr sd. Change out ch to 9/16". Flowing @ 1000# w/ light mist & tr sd, would not burn. Well cleaning up. Gas would burn @ 7 PM. Change ch to 32/64". Well stabilized for 3 hrs @ 900#. FARO 5724 MCFD. Dry gas w/ no sd. Change ch to 24/64". Well stabilized @ 1100# for 6 hrs. FARO 3788 MCFD, dry gas w/ no sd & burns easily. DW: 1651. CW: 237,038.

11/09/86 5140' PBTB, well flowing to pit on 24/64" ch @ 1100#. FARO 3788 MCFD. Dry gas w/ no sd. SWI. RU & set tbg hanger w/ back pressure valve. ND BOP & NU tree. Retrieve back press valve. SI pressure 1275#. Flow well on 20/64" ch. Press stabilized @ 1200#. FARO 2943 MCFD. SWI. RR @ 12:30 PM 11/8/86. SI Wasatch gas well. SI, WOPL. Drop from report until first sales. DW: 4736. CW: 24,774.

WELL NAME: Cracker Federal #4
 AREA: Rockhouse
 LOCATION: Section 7-T11S-R23E
 COUNTY: Uintah
 STATE: Utah
 FOOTAGE: 2016' FNL & 722' FEL

PTD: 5700'
 ELEVATIONS: 5939' KB, 5925' GL
 CONTRACTOR: Olsen
 AFE NUMBER: 862442
 LSE NUMBER: 76341
 TXO WI: 100%

- 10/15/86 108' (108'), drlg. Green River. Native. 1/4° @ 72'. MI & RU Olsen Rig #5. Spud 12-1/4" hole @ 11 AM 10/14/86. DW: 7130. CW: 7130. DD 1.
- 10/16/86 312' (204'), NU BOP. Uintah. Native. 1/2° @ 312'. TD 12-1/4" hole @ 3:15 PM 10/15/86. Circ & cond hole. ST. Circ & cond. TOOH. RIH w/ 8-5/8" cmt guide shoe (1.6') & 7 jts 8-5/8", 24#, K-55, ST&C csg (292.28'). Shoe set @ 306'. Cmt w/ 90 sx Halco lite w/ 2% CaCl₂ & 1/4#/sx flocele tailed w/ 50 sx Cl "A" w/ 2% CaCl₂ & 1/4#/sx flocele. PD @ 8 PM. BP w/ 500#. Full returns. Cmt circ. WOC. NU BOP. DW: 9047. CW: 16,177. DD 2.
- 10/17/86 521' (215'), drlg. Uintah. 8.4, 27. 1/4° @ 493. NU BOP. Test BOP, pipe & blind rams, & ch manifold to 2000#. All held. Test hydril to 800#. Drl MH. RIH w/ bit #2. Drl cmt & shoe. Drl ahead. DW: 6115. CW: 22,292. DD 3.
- 10/18/86 1285' (764'), mix LCM pill. Green River. 8.5, 45. 1/2° @ 1016'. Lost circ @ 1275' @ 8:30 PM 10/17/86. Lost 75 bbls. Mixed 75 bbls 45 visc 25-27% LCM mud pill. Dry drld 10' to 1285', no returns. Mixed second pill. Clean out pump. Started to pump. Bit plugged. Filled annulus w/ 58 bbls mud. Hole would stand full. TOOH for plugged bit. DW: 14,330. CW: 36,622. DD 4.
- 10/19/86 1765' (480'), drlg. Green River. 8.5, 45, 14.4, 9.5. 1/4° @ 1562'. Finish TOOH w/ plugged bit. TIH. Brk circ @ 500', 1000', 1200'. Had full returns to 1215'. Would loose circ below 1215'. Mix LCM & mud to build volume. LCM @ 20% system wide. Started drlg. Had 20% LCM going in w/ 5-15% coming out. Started gaining 100% returns. Total fluid lost during previous operations is approx 800 bbls. DW: 15,097. CW: 51,719. DD 5.
- 10/20/86 2405' (640'), drlg. Green River. 9, 39, 14, 9. 1-1/2° @ 2070'. Drlg ahead w/ 35 vis & 10% LCM from 1780-2405'. Drop LCM to 2%. Lost approx 100 bbls mud from 1725-2100'. No lost circ. DW: 10,847. CW: 62,566. DD 8.
- 10/21/86 3135' (730'), drlg. Green River. 8.7, 32, 14, 10.5. 1-1/4° @ 2550'. 1-1/4° @ 3049'. Drlg ahead w/ no lost circ. No shows or drlg breaks. DW: 12,827. CW: 75,393. DD 7.
- 10/22/86 3625' (490'), drlg. Green River. 9.1, 38, 6, 9.5. 1° @ 3511'. Tite hole @ 3400'. Cured w/ polymer sweep. Mud up @ 3500'. TFB #3 @ 3550'. Wash & ream 30'. No fill. Drl ahead. Top Douglas Creek @ 3270'. 3265-85' 30 units, 3475-80' 50 units, 3580-90' 120 units, 3645-60' 50 units. 20 UBG. DW: 8513. CW: 83,906.
- 10/23/86 4100' (475'), drlg. Wasatch. 9, 35, 7.2, 9.5. Wasatch smpl top @ 3740'. DW: 7886. CW: 91,792. DD 9.

Interval	Ft./Min	Gas Units
3695-3700'	2-1/2-2	15-300-20
3845-3865'	5-1-5	5-60-15
4020-4050'	4-1 1/2-4	5-30-10
4070-4100'	4-1 1/2-4	10-40-5

- 10/24/86 4527' (427'), drlg. Wasatch. 8.9, 37, 7.2, 10.5. 1-1/4° @ 4072'. Tite connection @ 4380'. Pull 5-10K worked free. Drl ahead. Drlg brks & lower zone smple description listed below: DW 8062. CW: 99,854. DD 10.

Interval	Ft/Min	Units Gas	Smpl Description
4205-4215'	4-1-3.5	5-10-15	Medium grained sd
4350-4360'	5-3-5	8-50-10	w/ milky cut &
4375-4400'	4-.7-5.5	10-550-15	fluorescence.

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NOV 25 1986

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
3 TRIAD CENTER, SUITE 350
SALT LAKE CITY, UT 84180-1203

DIVISION OF
OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Cracker Federal #4
Operator TXO Production Corp. Address 1800 Lincoln Center Building
Denver, Colorado 80264
Contractor Olsen Drilling Address 999 18th Street, Suite 3300
Denver, Colorado 80202
Location SE 1/4 NE 1/4 Sec. 7 T. 11S R. 23E County Uintah

Water Sands

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	<u>No apparent water flows.</u>		
2.	<u></u>		
3.	<u></u>		
4.	<u></u>		
5.	<u></u>		

(Continue on reverse side if necessary)

Formation Tops

Remarks

- NOTE: (a) Report on this form as provided for in Rule 806, Oil and Gas Conservation General Rules.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

Wm

IGT

TXO PRODUCTION CORPORATION
CRACKER FEDERAL #4
SEC. 7, T11S-R23E
UINTAH COUNTY, UTAH

INTERMOUNTAIN GEO-TECH, INC.
P. O. BOX 158
DELTA, CO 81416
303-874-7762

WELL SUMMARY

OPERATOR: TXO PRODUCTION CORPORATION
WELL NAME: CRACKER FEDERAL #4
LOCATION: SE $\frac{1}{4}$ NE $\frac{1}{4}$ SECTION 7-T11S-R23E
2016' FNL 722' FEL
FIELD: ROCKHOUSE
COUNTY: UINTAH
STATE: UTAH
ELEVATION: GL 5925 KB 5939
SPUD DATE: 10-14-86
COMPLETION DATE: 10-31-86
RELEASE DATE: 10-29-86
ENGINEER: RANDY WALCK (TXO)
GEOLOGIST: JOE RUNGE
MUDLOGGING: INTERMOUNTAIN GEO-TECH, INC.
CONTRACTOR: OLSEN DRILLING COMPANY RIG #5
TOOL PUSHER: DARREL COTTON
DRILLING FLUID: HUGHES DRILLING FLUIDS
ENGINEER: LARRY DYE
HOLE SIZE: 12 $\frac{1}{4}$ " to 312' 7 7/8 to 5200'
ELECTRIC LOGS: GEARHART DIL/FDC/CNL/GR/CAL
ENGINEER: D. GRENIER
TOTAL DEPTH: DRILLER 5693 LOGGER 5680
OBJECTIVE: WASATCH FORMATION
STATUS: GAS

TXO PRODUCTION CORPORATION
CRACKER FEDERAL #4
SEC. 7, T11S-R23E
UINTAH COUNTY, UTAH

BIT RECORD

<u>BIT #</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FEET</u>	<u>HOURS</u>
1	12 $\frac{1}{4}$ "	Reed	Y-11	312'	300'	24 $\frac{1}{2}$
2	7 7/8"	Reed	HP53A	3550'	3238'	87
3	7 7/8"	Reed	HP53A	5276'	1726'	108 3/4
4	7 7/8"	Reed (RR#2)	HP53A	5693'	417'	37

TXO PRODUCTION CORPORATION
CRACKER FEDERAL #4
SEC. 7, T11S-R23E
UINTAH COUNTY, UTAH

DEVIATION SHEET FOR WELL. . . .

<u>DEPTH</u>	<u>DEVIATION (DEV)</u>
72'	0°
312'	$\frac{1}{2}$ °
1500'	MR
2040'	$1\frac{1}{2}$ °
2550'	$1\frac{1}{4}$ °
3049'	$1\frac{1}{4}$ °
3511'	1 °
4072'	$1\frac{1}{4}$ °
5095'	$3/4$ °
5691'	$\frac{1}{2}$ °

INTERMOUNTAIN GEO-TECH, INCORPORATED
P. O. BOX 158 DELTA, CO 81416
(303) 874-7762

COMPANY TXO PRODUCTION CORPORATION
WELL NO. CRACKER FEDERAL #4
LOCATION _____

ZONE OF INTEREST NO. 1

INTERVAL: From 3580 To 3596

DRILL RATE: Abv 2.5 min/ft Thru 1.0 min/ft Below 2.0 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	5 U	.01%	--	--			
During	120 U	.09%	.03%	tr			
After	10 U	.01%	--	--			

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty
None % in total sample 70%
Poor
Fair % in show lithology 50%
Good COLOR: Yellow

CUT: None Streaming
Poor Slow
Fair Mod
Good Fast
COLOR: Gold

STAIN: None Poor Fair Good Livc Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind _____

LITHOLOGY SS S&P LTGY VF-FG SBRD WSRTD HD TR DDO STNG

SAMPLE QUALITY fair

NOTIFIED Howard Gordon @ 8:30 HRS. DATE: 10/22/86

REMARKS _____

ZONE DESCRIBED BY Joe Runge

INTERMOUNTAIN GEO-TECH, INCORPORATED
P. O. BOX 158 DELTA, CO 81416
(303) 874-7762

COMPANY TXO PRODUCTION CORPORATION
WELL NO. CRACKER FEDERAL #4
LOCATION _____

ZONE OF INTEREST NO. 2

INTERVAL: From 3695 To 3700

DRILL RATE: Abv 2.0 min/ft Thru .5 min/ft Below 2.0 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	15 U	.01%	--	--	--		
During	300 U	3%	1%	.05%	.03%		
After	20 U	.05%	tr	--	--		

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty
None % in total sample 100%
Poor
Fair % in show lithology 100%
Good COLOR: Bri Gold

CUT: None Streaming
Poor Slow
Fair Mod
Good Fast
COLOR: Bri Yellow

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind oolitic & granular

LITHOLOGY LS DKBRN CRM ORNG CRPXLN ABNT OOLITES GRAN FRM-HD BRI GOLD

FLOR V FAST STMG CUT DK BRN OIL STNG SAMPLE QUALITY Good

NOTIFIED Howard Gordon @ _____ HRS. DATE: 10-22-86

REMARKS Good show only about 3 fast feet in middle of break.

ZONE DESCRIBED BY Joe Runge

INTERMOUNTAIN GEO-TECH, INCORPORATED
P. O. BOX 158 DELTA, CO 81416
(303) 874-7762

COMPANY TXO PRODUCTION CORPORATION
WELL NO. CRACKER FEDERAL #4
LOCATION _____

ZONE OF INTEREST NO. 3

INTERVAL: From 3850 To 3865

DRILL RATE: Abv 5.5 min/ft Thru 1.0 min/ft Below 4.5 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	5 U	.005%	--	--			
During	60 U	.6%	.3%	.1%			
After	5 U	.01%	--	--			

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty CUT: None Streaming
None % in total sample 30% Poor Slow
Poor Fair Fair Mod
Fair % in show lithology 10% Good Fast
Good COLOR: _____ COLOR: Yellow

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind Intergranular

LITHOLOGY SS CLEAR S&P FG SBRD WSRTD FRI

SAMPLE QUALITY Good

NOTIFIED Howard Gordon @ 8:30 HRS. DATE: 10-23-86

REMARKS _____

ZONE DESCRIBED BY Joe Runge

INTERMOUNTAIN GEO-TECH, INCORPORATED
P. O. BOX 158 DELTA, CO 81416
(303) 874-7762

COMPANY TXO PRODUCTION CORPORATION
WELL NO. CRACKER FEDERAL #4
LOCATION _____

ZONE OF INTEREST NO. 4

INTERVAL: From 4020 To 4100

DRILL RATE: Abv 2.5 min/ft Thru 1.0-1.5 min/ft Below 4.0 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	3 U	tr	--	--			
During	30-40 U	.4-.6%	.2-.3%	tr			
After	5 U	.1%	tr	--			

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS READING}}{\text{X Min. in Peak}} = \underline{\hspace{2cm}}$ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty
None % in total sample 50%
Poor
Fair % in show lithology 20%
Good COLOR: lt yellow

CUT: None Streaming
Poor Slow
Fair Mod
Good Fast
COLOR: mky yellow

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind _____

LITHOLOGY SS CLR S&P FG SBRD-RD WSRTD FRI

SAMPLE QUALITY Good

NOTIFIED Howard Gordon @ 8:30 HRS. DATE: 10-23-86

REMARKS One sand separated by 10 ft of shale in middle.

ZONE DESCRIBED BY Joe Runge

COMPANY TXO PRODUCTION CORPORATION
WELL NO. CRACKER FEDERAL #4
LOCATION _____

ZONE OF INTEREST NO. 5

INTERVAL: From 4375 To 4400

DRILL RATE: Abv 5.0 min/ft Thru .7 min/ft Below 5.5 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	10 U	.0%	--	--			
During	550 U	4.2%	1.2%	.5%			
After	15 U	.2%	--	--			

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty CUT: None Streaming
None % in total sample 100% Poor Slow
Poor % in show lithology 100% Fair Mod
Fair COLOR: blue white Good Fast
Good COLOR: mky yellow

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind Intergranular

LITHOLOGY SS. CLR S&P MG WRDED WSRTD PCMTD FRI

SAMPLE QUALITY Good

NOTIFIED Howard Gordon @ 8:30 HRS. DATE: 10-24-86

REMARKS Very rapid increase, able to see gas bubbling from samples.

ZONE DESCRIBED BY Joe Runge

INTERMOUNTAIN GEO-TECH, INCORPORATED
P. O. BOX 158 DELTA, CO 81416
(303) 874-7762

COMPANY TXO PRODUCTION CORPORATION
WELL NO. CRACKER FEDERAL #4
LOCATION _____

ZONE OF INTEREST NO. 6

INTERVAL: From 4705 To 4735

DRILL RATE: Abv 4.0 min/ft Thru .7 min/ft Below 4.0 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	5 U	.001%	--	--	--		
During	650 U	10.2%	13.7%	4.2%	.2%		
After	10 U	.1%	.001%	--	--		

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty CUT: None Streaming
None % in total sample 100% Poor Slow
Poor Fair Good Mod
Fair % in show lithology 100% Fast
Good COLOR: Pale Gold COLOR: Mky Yellow

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind Intergranular

LITHOLOGY SS CLR S&P FG SBRD WSRTD PCMTD FRI DK BRN OIL STN

SAMPLE QUALITY _____

NOTIFIED Howard Gordon @ 8:30 HRS. DATE: 10-25-86

REMARKS Excellent gas show, good condensate indicators maintained

20 U after show for 2 hrs.

ZONE DESCRIBED BY Joe Runge

INTERMOUNTAIN GEO-TECH, INCORPORATED
P. O. BOX 158 DELTA, CO 81416
(303) 874-7762

COMPANY TXO PRODUCTION CORPORATION

WELL NO. CRACKER FEDERAL #4

LOCATION _____

ZONE OF INTEREST NO. 7

INTERVAL: From 4930 To 4940

DRILL RATE: Abv 4.5 min/ft Thru 1.5 min/ft Below 6.0 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	5 U	.2%	--	--			
During	275 U	3.4%	.75%	tr			
After	5 U	.1%	--	--			

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty CUT: None Streaming
None % in total sample 10% Poor Slow
Poor Fair Good Mod
Fair % in show lithology 10% Fast
Good COLOR: Yel COLOR: Yel

STAIN: None Poor Fair Good Livc Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind Intergranular

LITHOLOGY SS DKGY CLR VF-FG SBRD FRI

SAMPLE QUALITY Good

NOTIFIED Howard Gordon @ 8:30 HRS. DATE: 10-26-86

REMARKS Sand seems to be tite

ZONE DESCRIBED BY Joe Runge

INTERMOUNTAIN GEO-TECH, INCORPORATED
P. O. BOX 158 DELTA, CO 81416
(303) 874-7762

COMPANY TXO PRODUCTION CORPORATION
WELL NO. CRACKER FEDERAL #4
LOCATION _____

ZONE OF INTEREST NO. 8

INTERVAL: From 5185 To 5195

DRILL RATE: Abv 5.0 min/ft Thru 1.0 min/ft Below 5.0 min/ft

MUD GAS-CHROMATOGRAPH DATA

	TOTAL	C ₁	C ₂	C ₃	C ₄	C ₅	OTHER
Before	1 U	.001%	--	--			
During	250 U	2.2 %	1.0%	tr			
After	5 U	.2%	--	--			

Type gas increase: Gradual Sharp

Gas variation within zone: Steady Erratic Increasing Decreasing

CARBIDE HOLE RATIO: $\frac{\text{GRAMS}}{\text{READING}}$ X Min. in Peak = _____ Sensitivity: Poor Fair Good

FLUO: Mineral Even Spotty CUT: None Streaming
None % in total sample 20% Poor Slow
Poor Fair Fair Mod
Fair % in show lithology 20% Good Fast
Good COLOR: Yelgn COLOR: Yel

STAIN: None Poor Fair Good Live Dead Residue Even Spotty Lt. Dk.

POROSITY: Poor Fair Good Kind Intergranular

LITHOLOGY SS CLR S&P MG SBRD WSRT PCMTD FRI TR LT O STN

SAMPLE QUALITY Good

NOTIFIED Howard Gordon @ 8:30 HRS. DATE: 10-27-86

REMARKS Joe Runge

ZONE DESCRIBED BY _____

SAMPLE DESCRIPTION

3150-60	SH	100%	dkgy dkbrn slty frm calc
3160-70	SH	100%	a/a
3170-80	SS	100%	wh-clr fg sbrd lse-fri calc
3180-90	SH	100%	gy gygn brn sdy ip wxy frm calc
3190-3200	SH	100%	a/a
3200-10	LS	20%	brn-gy slty shy hd dns
	SH	80%	dkbrn-dkgy mic lmy
3210-20	SH	90%	dkbrn-dkgy mica-wxy fis calc
	SS	10%	orng-wh fg-congl hd brit calc
3220-30	SH	100%	a/a
3230-40	SH	100%	a/a
3240-50	SS	100%	gy-brn-clr vfg sbrd hd tt calc
3250-60	SH	100%	dkgy dkbrn mic slty & sdy ip frm blkly calc
3260-70	SH	100%	a/a
3270-80	SS	30%	dkgy-dkbrn some yelbrn slty mica
	SH	70%	frm fis-blky vcalc
3280-90	SS	40%	clr-gy vfg sbrd hd tt brit
	SH	60%	a/a
3290-3300	SH	100%	dkbrn-dkgygn mica occ slty fis-blky calc occ lmy
3300-10	SH	100%	a/a
3310-20	LS	50%	crm-yelbrn sdy v oolic ip sft arg
	SH	50%	a/a
3320-30	LS	40%	a/a
	SH	60%	dkgy brn mica slty frm-hd brit calc
3330-40	LS	60%	crm-ltbrn v oolic frm sl arg
	SH	40%	a/a
3340-50	SS	40%	clr-gy vfg sbrd frm coal strgs
	SH	60%	lt-dkgy dkbrn v mic frm calc
3350-60	SS	10%	
	LS	50%	crm v oolic sme xln frm arg
	SH	40%	a/a
3360-70	SS	20%	
	LS	20%	
	SH	60%	
3370-80	SS	10%	clr-wh fg-mg sbang hd tt
	LS	20%	brn-crm crpxl hd dns
	SH	70%	dkbrn gy mica frm v calc
3380-90	SH	100%	dkbrn blk mica slty frm calc
3390-3400	SH	100%	a/a
3400-10	SS	40%	s&p gy vfg sbrd wsrtd hd brit tt
	SH	60%	
3410-20	LS	30%	brn mic
	SH	70%	dkgy brn mica slty frm calc
3420-30	LS	20%	a/a
	SH	80%	
3430-40	SS	60%	clr-wh fg sbang wsrtd mod cmtd brit
	SH	40%	brn-gy mica frm calc
3440-50	SS	10%	
	SH	90%	brn-ltbrn v mica slty fis calc
3450-60	SS	100%	clr-s&p fg sbang-sbrd wsrtd frm brit

3460-70	SS	40%	a/a
	SH	60%	dkgy gygn mica occ v slty frm calc
3470-80	SS	30%	clr-gy fg wsrtd brit
	SH	70%	
3480-90	SH	100%	dkbrn gygn mica sdy & slty frm fis-blky calc
3490-3500	SH	100%	
3500-10	SS	20%	ltgy vfg sbrd brit tt
	SH	80%	pred gygn v mic blky v calc
3510-20	SS	10%	pred gygn ltgn v mic occ v slty
	SH	90%	frm blky calc
3520-30	SS	100%	ltgy s&p lt gn vfg sbrd grd to sltst frm calc
3530-40	SS	30%	a/a
	SH	70%	a/a
3540-50	SH	100%	a/a
3550-60	SS	20%	gy ltgn vfg sbrd slty
	LS	10%	crm-brn mic
	SH	70%	dkgn gygn v mica frm blky calc
3560-70	SS	20%	a/a
	LS	30%	a/a
	SH	50%	a/a
3570-80	SS	80%	s&p ltgy fg sbrd wsrtd hd brit tr dk o stng
	SH	20%	
3580-90	SS	100%	a/a
3590-3600	SS	80%	s&p ltgy vf-fg sbrd grd to sltst tt
	SLTST	20%	s&p ltgy hd brit
3600-10	SS	80%	a/a
	SH	20%	pred gygn mica-wxy blky calc
3610-20	SS	80%	
	SH	20%	
3620-30	SS	90%	clr-wh s&p fg wsrtd rd frm brit
	SH	10%	
3630-40	SH	100%	gygn dkgy v mica wxy blky frm calc
3640-50	SH	100%	a/a
3650-60	SH	60%	a/a
	SLTST	40%	yelbrngy v shly calc
3660-70	LS	90%	crm-brn crpxl v oolic gran sl arg
	SH	10%	gold flor mod strmg cut
3670-80	LS	100%	a/a tr dk brn oil stng lt yel flor sl strmg cut
3680-90	LS	100%	crm-ltbrn crpxl-micxl v oolic & gran dkbrn o stng pale gold flor mod cut live & dd oil present
3690-3700	LS	100%	m-dkbrn micxln oolic sdy frm sl arg
3700-10	LS	80%	a/a
	SS	20%	brn gy vfg sbrd hd tt
3710-20	LS	10%	a/a
	SH	90%	dkgygn gybrn wxy frm calc
3720-30	LS	100%	dkbrn crm orng crpxl abndt ools gran frm-hd oolic Ø bri gold flor v fast strmg cut
3730-40	LS	100%	live free oil in samples
3740-50	SS	90%	clr-ltgy vf-fg sbrd wsrtd frm-hd brit
	SH	10%	gygn gy bcm red brn mic frm calc

3750-60	SH	100%	red brn dkbrn v mic slty fis calc
3760-70	SH	100%	a/a
3770-80	SS	80%	clr f-mg sbrd wsrted fri
	SH	20%	a/a
3780-90	SH	100%	dkbrn dkredbrn dkgy mica slty fis-blky calc
3790-3800	SS	10%	
	SH	90%	
3800-10	SS	90%	clr-wh fg sbrd wsrted fri
	SH	10%	
3810-20	SH	100%	dkgy dkgn dkbrn redbrn mica wxy fis blky frm calc
3820-30	SH	100%	a/a
3830-40	SS	10%	clr fg rd wsrted fri
	SH	90%	a/a
3840-50	SS	10%	
	SH	90%	
3850-60	SS	100%	clr s&p f-mg sbrd wsrted fri tr lt yel flor v slow strmg cut
3860-70	SH	100%	dkgygn dkbrn redbrn wxy frm-sft bent ip calc
3870-80	SH	100%	
3880-90	SH	100%	dkgy gygn redorng redbrn gen wxy occ slty & sdy frm calc
3890-3900	SH	100%	a/a
3900-10	SS	20%	brn vfg sbrd pyr frm brit
	SH	80%	
3910-20	SS	10%	a/a
	SH	90%	
3920-30	SH	100%	gy gn redbrn redorng slty & sdy wxy frm bent ip calc
3930-40	SH	100%	
3940-50	SS	20%	brn tr wh vfg sbrd shly calc
	SH	80%	a/a
3950-60	SH	100%	dkgy gygn dkred dkbrn mica ip gen wxy frm-sft v calc
3960-70	SH	100%	
3970-80	SS	40%	wh-pnk vfg sbrd med srted fri
	SH	60%	
3980-90	SH	100%	
3990-4000	SH	100%	pred redbrn redorng some gygn wxy slty- sdy frm fis v calc
4000-10	SH	100%	
4010-20	SS	40%	s&p f-mg sbang gen wsrted fri
	SH	60%	
4020-30	SS	60%	a/a
	SH	40%	a/a
4030-40	SS	60%	s&p-brn fg sbrd wsrted tr lt yel flor v slcut
	SH	40%	
4040-50	SS	80%	a/a
	SH	20%	redbrn gygn wxy frm calc
4050-60	SS	90%	s&p clr mg sbang fri
	SH	10%	
4060-70	SS	90%	a/a
	SH	10%	a/a
4070-80	SS	90%	
	SH	10%	

4080-90	SS	80%	clr-s&p fg sbrd-rd wsrted fri lt yel flor
	SH	20%	v slow cut
4090-4100	SS	50%	red brn gygn mot wxy blkly calc
	SH	50%	
4100-4110	SS	30%	
	SH	70%	
4110-4120	SS	10%	gygn gy redbrn slty frm wxy calc
	SH	90%	
4120-30	SS	10%	brn-wh fg sbrd drty fri
	SH	90%	a/a
4130-40	SS	10%	a/a
	SH	90%	a/a
4140-50	SH	100%	dkgy dkbrn redorng mica slty-wxy frm
4150-60	SH	100%	
4160-70	SS	10%	brn-drtyclr vfg slty sbrd frm brit
	SH	90%	
4170-80	SH	100%	
4180-90	SH	100%	
4190-4200	SS	80%	gy dkgy-smky occ slty frm brit
	SH	20%	dkgy mic frm calc
4200-4210	SS	30%	
	SH	70%	
4210-20	SS	60%	clr s&p fg sbang wsrted fri
	SH	40%	
4220-30	SS	80%	a/a
	SH	20%	a/a
4230-40	SS	100%	clr s&p gy fg rd wsrted fri
4240-50	SS	100%	clr gy fg rd wsrted fri tr oil stn lt yel flor nc
4250-60	SS	100%	a/a
4260-70	SS	30%	
	SH	70%	dkgy brn mica slty wxy frm calc
4270-80	SS	60%	smky s&p gy vfg some fg psrted hd brit
		40%	
4280-90	SS	80%	clr fg sbrd wsrted fri pcmted
	SH	20%	
4290-4300	SS	100%	a/a
4300-10	SS	100%	
4310-20	SH	70%	dkgy redorng v mica slty frm calc
	SS	30%	
4320-30	SH	100%	
4330-40	SH	100%	
4340-50	SH	100%	dkgy redorng dkbrn v mica slty ip wxy frm v calc
4350-60	SS	50%	wh clr fg sbrd fri
	SH	50%	
4360-70	SS	10%	
	SH	90%	a/a
4370-80	SS	60%	wh-gy s&p vfg sbrd slty fri
	SH	40%	

4380-90	SS	80%	clr-s&p fg rd wsrted v fri pp blue flor stmg cut
	SH	20%	
4390-4400	SS	100%	clr s&p fg sbrd-wrded wsrted pcmted fri bri blue flor fast flashing mky yel cut
4400-10	SS	100%	clr s&p mg wrded wsrted fri bri blue wh flor v fast flashing mky cut
4410-20	SS	50%	a/a bcm v slty
	SH	50%	dkbrn dkgygn mica ip wxy frm calc
4420-30	SH	100%	
4430-40	SH	100%	dkgy dkbrn redbrn slty wxy frm calc
4440-50	SS	10%	gy s&p vfg slty hd brit
	SH	90%	
4450-60	SS	10%	a/a
	SH	90%	
4460-70	SS	10%	a/a
	SH	90%	a/a
4470-80	SS	20%	lt-mgy vfg v slty sbrd hd brit
	SH	80%	dkgygn redbrn some mica & slt fis-blky wxy frm calc
4480-90	SS	20%	a/a
	SH	80%	a/a
4490-4500	SH	100%	
4500-10	SH	100%	
4510-20	SH	90%	dkgy redbrn wxy some slt fis-blky calc
	SS	10%	s&p ltgy vf-fg sbrd mod srted hd brit
4520-30	SH	100%	
4530-40	SS	20%	ltgy s&p wh vfg sbrd frm-vhd
	SH	80%	
4540-50	SH	100%	gygn gy redorng wxy frm calc
4550-60	SH	100%	
4560-70	SH	100%	
4570-80	SH	100%	pred dkbrn some gygn & gy wxy frm calc
4580-90	SH	100%	
4590-4600	SS	20%	gybrn vfg slty frm calc
	SH	80%	
4600-10	SS	20%	
	SH	80%	
4610-20	SS	50%	wh s&p ltgy vfg rd fri
	SH	50%	
4620-30	SS	70%	
	SH	30%	
4630-40	SS	10%	
	SH	90%	dkbrn dkgy gygn mica slty wxy calc
4640-50	SS	10%	clr s&p vfg slty vhd brit
	SH	90%	a/a
4650-60	SH	100%	dkbrn redbrn gygn slty wxy fis blky calc
4660-70	SS	80%	clr s&p fgr sbrd hd brit
	SH	20%	

4670-80	SS	10%	a/a
	SH	90%	a/a
4680-90	SS	70%	clr-dkgy vf-fg sbrd vhd brit tt
	SH	30%	dkbrn redbrn gygn v slty wxy fis
4690-4700	SS	80%	
	SH	20%	
4700-10	SS	90%	wh clr s&p f-mg psrtd some sft
	SH	10%	
4710-20	SS	60%	a/a
	SH	40%	dkgy redorng v mica wxy v calc
4720-30	SS	80%	clr-s&p vfg sbrd hd brit tt
	SH	20%	
4730-40	SS	100%	clr-s&p fg sbrd wsrtd pcmtd fri pale gold flor v fast mky yel stmg cut dkbrn o stn
4740-50	SS	100%	a/a
4750-60	SS	80%	clr s&p vf-fg sbrd grdg to sltst hd brit
	SH	20%	brn redorng gygn. mic. wxy bent ip calc
4760-70	SS	40%	
	SH	60%	
4770-80	SS	60%	clr s&p vfg rd slty hd brit
	SH	40%	bkred gy wxy frm calc
4780-90	SS	60%	
	SH	40%	
4790-4800	SLTST	40%	dkgy grdg to vfg ss hd brit
	SH	60%	
4800-10	SLTST	20%	
	SH	80%	bkred brn gy mica wxy frm calc
4810-20	SLTST	20%	a/a
	SH	80%	a/a
4820-30	SS	20%	wh clr vfg sbrd hd brit tt
	SH	80%	a/a
4830-40	SS	60%	clr wh s&p fg rd wsrtd hd brit
	SH	40%	bkred dkbrn mica slty frm calc
4840-50	SS	10%	a/a
	SH	90%	a/a
4850-60	SH	100%	
4860-70	SH	100%	
4870-80	SH	100%	
4880-90	SS	40%	wh vfg sbrd cly mtrx frm stky
	SH	60%	gygn redorng motl mica pyric
4890-4900	SS	20%	
	SH	80%	
4900-10	SS	10%	clr-gy vfg sbrd slty hd tt
	SH	90%	dkbrn dkgy redorng mica frm v calc
4910-20	SS	10%	
	SH	90%	
4920-30	SS	10%	
	SH	90%	
4930-40			
4940-50	SS	40%	dkgy clr vf-fg sbrd fri
	SH	60%	dkbrn bkred mic fis calc

4950-60	SS	60%	a/a
	SH	40%	a/a
4960-70	SS	60%	ltgy clr vfg sbrd fri
	SH	40%	dkbrn dkredorng v mica fis calc
4970-80	SS	40%	a/a
	SH	60%	a/a
4980-90	SS	40%	clr s&p vfg sbang mod srted v hd
	SH	60%	
4990-5000	SS	20%	a/a
	SH	80%	dkgy gygn brn motl wxy frm calc
5000-10	SS	10%	a/a
	SH	90%	a/a
5010-20	SS	10%	a/a
	SH	90%	a/a
5020-30	SH	100%	dkbrn dkgy orng mica wxy fis-blky v calc
5030-40	SH	100%	a/a
5040-60	SS	50%	clr ltgy s&p fg sbrd-sbang hd brit
	SH	50%	a/a
5050-60	LS	20%	dkbrn crpxln v dns cln
	SS	20%	dkgy vfg sbrd v hd qtzic
	SH	60%	a/a
5060-70	LS	20%	
	SH	60%	
	SS	20%	
5070-80	SS	80%	dkgy s&p fg sbrd v hd brit sil
	SH	20%	dkbrn mica frm calc
5080-90	SS	40%	a/a
	LS	20%	dkbrn dkgy crpxl dns cln
	SH	40%	
5090-5100	SS	10%	dkgy vfg v slty hd brit sil
	LS	30%	dkgy dkbrn mic-crpxl hd dns sl arg
	SH	60%	
5100-5110	LS	40%	a/a
	SH	60%	redbrn orng gy mica slty frm
5110-5120	LS	60%	dkgy brn wh cryplxn slty dns
	SH	40%	red brn mic frm calc
5120-30	LS	20%	dkgybrn vfg sbrd v slty sil
	SS	60%	
	SH	20%	
5130-40	LS	20%	
	SS	20%	
	SH	60%	a/a
5140-50	LS	20%	
	SS	20%	
	SH	60%	a/a
5150-60	SS	80%	dkgy s&p fg sbrd hd sil
	SH	20%	dkbrn v mica wxy slty v calc
5160-70	SS	60%	a/a
	SH	40%	a/a
5170-80	SS	40%	a/a
	SH	60%	a/a

5180-5190	LS	10%	brn tan ltgy crpxl hd dns sl arg dk
	SS	20%	dkgy s&p wh vfgr sbrd slty sil
	SH	70%	
5190-5200	SS	100%	clr s&p mg sbrd wsrt pcmtd fri tr lt oil
			stn yelgn flor mod cut
5200-5210	SS	40%	s&p vfg v slty hd brit
	SH	60%	dkgy gygn mica frm calc
5210-20	LS	40%	dkbrn blk crm micxln slty dns cln
	SH	60%	
5220-30	SS	70%	dkgy s&p fg sbrd hd brit
	SH	30%	redbrn mica slty frm calc
5230-40	SS	60%	a/a
	SH	40%	a/a
5240-50	LS	20%	dkbrn crm crpxl-mrly dns cln
	SS	70%	dkgy clr vfg slty vhd brit sil
	SH	10%	
5250-60	SS	70%	a/a
	LS	20%	a/a
	SH	10%	a/a
5260-70	SS	50%	s&p gy vfg sbrd hd brit sil
	LS	10%	brn crpxl dns cln
	SH	40%	gy bkred mica hd sil
5270-80	SH	100%	m-ltgy wxy v hd sil
5280-90	SH	100%	pred ltgy mica v hd brit sil occ sl calc
5290-5300	SH	100%	
5300-5310	SLTST	100%	ltgy some vfg sd intrbd hd sil
5310-20	SLTST	100%	a/a
5320-30	SLTST	50%	
	SH	50%	lt-mgy bkred mica slty frm
5330-40	SS	80%	s&p dkgy vfg grd to sltst sbrd hd brit sil
	SH	20%	
5340-50	SH	100%	dkgy brn dkred mica slty frm-hd calc
5350-60	SH	100%	m-ltgy mica slty frm-sft calc
5360-70	SS	50%	clr s&p fg sbrd frm-hd
	LS	20%	ltgy crpxl hd dns cln
	SH	30%	a/a
5370-80	SS	10%	a/a
	LS	30%	a/a
	SH	60%	a/a
5380-90	SS	20%	a/a
	SH	80%	a/a
5390-5400	SS	100%	s&p gy vfg sbrd v hd brit sil
5400-5410	SS	90%	a/a
	SH	10%	dkgy wxy pyric hd calc
5410-20	SH	90%	a/a
	SS	10%	a/a
5420-30	SS	100%	clr s&p gy fg sbrd slty frm brit-fri
5430-40	SS	100%	clr s&p fg wsrt sbrd frm-fri
5440-50	SH	100%	ltgyltbrn dkgn crm mica pyric wxy sft bent calc
5450-60	SS	50%	s&p clr fg sbrd wsrt hd brit sil
	SH	50%	ltgy ltbrn ltgn wxy bent frm calc

5460-70	SH	100%	dkbrn dkgy redbrn wxy frm intrbd w/ls strgs
5470-80	SH	100%	a/a
5480-90	SH	100%	ltbrn ltred ltgy wxy frm-sft bent occ ls strgs
5490-5500	SH	100%	a/a
5500-10	SS	60%	s&p vfg sbrd hd brit sil
	SH	40%	
5510-20	LS	60%	
	SS	30%	wh-gy mrly-crpxl sft-v dns
	SH	10%	ltgy ltred wxy m frm calc
5520-30	LS	60%	a/a
	SH	40%	a/a
5530-40	LS	40%	a/a
	SH	60%	a/a
5540-50	SH	100%	ltgy gn mar crm tan wxy frm-sft calc
5550-60	SS	20%	s&p vfg sbrd hd brit
	SH	80%	
5560-70	SH	100%	varigated wxy frm calc
5570-80	SS	20%	s&p gy vfg hd brit tt
	SH	80%	a/a
5580-90	SH	100%	a/a
5590-5600	SS	20%	s&p gy vfg sbrd hd brit tt
	SH	80%	a/a
5600-10	SH	100%	dkgy ltgy mica slty ip frm-sft bent-sil
5610-20	SS	40%	clr s&p fg sbrd some slt hd brit sil
	SH	60%	varigated pastels mica frm calc
5620-30	SH	100%	pred dkgy some red mica wxy frm calc
5630-40	SH	100%	a/a
5640-50	SH	100%	pred gy lt&dk mica slty wxy frm-msft some bent calc
5650-60	SS	30%	dkgy vfg sbrd some sltst v hd sil
	SH	70%	lt-mgy mica pyric hd-frm sil ip calc
5660-70	SS	30%	a/a
	SLTST	30%	dkgy gen grdg to vfg ss tt
	SH	40%	
5670-80	SS	40%	clr s&p vfg sbrd v hd brit sil occ intrbd w/carb mat
5680-90	SS	30%	
	SH	70%	dk-ltgy mica wxy frm calc

GEOLOGIC SUMMARY

&

ZONES OF INTEREST

TXO Production Corporation started drilling the Cracker Federal #4 well on October 14, 1986. Location of the well is in the SE NE of section 7-T11S-R23E, Rockhouse Unit, Uintah County, Utah.

The Cracker Federal #4 was spudded in the Uinta Formation. Total depth was reached on October 28, 1986 at 5693 ft., 47 feet into the Mesa Verde Formation.

*NOTE: Depth on electric logs are 13 ft. higher than drilltime.

GREEN RIVER FORMATION (EOCENE) 885 - 3756

The Green River Formation consists of non-marine, fresh water shales and carbonates in a predominately lacustrine environment, which are interbedded with deltaic and fluvial sandstones as a result of transgressions and regressions of the shoreline as the lake waters rose and fell.

Shales within the formation are generally variegated, light and dark greens, grays and browns. Sometimes silty and calcareous with live and dead oil staining.

Sandstones in the Green River are salt and pepper in appearance, clear and gray in color. Grain size varies from very fine to fine grain, subround-round, moderate to well sorted. Some of the sands have carbonaceous material or live or dead oil trapped between the grains.

Carbonates within the formation are dark brown, light brown, cream, cryptocrystalline to microcrystalline, have blocky, dense and clean. At times the limestones are very oolitic and generally have live or dead oil staining.

At 3580 - 3596 clean light gray to salt and pepper, subround, well sorted sand was drilled. This drilling break noted as show #1 on log, had a 120 unit increase in gas over background.

At 3644 50 ft. of massive limestone was encountered in the base of the Douglas Creek Member. This limestone is dark brown to cream, cryptocrystalline, very oolitic granular, firm to hard. At 3695 - 3700 sample showed bright gold fluorescence with very fast streaming cuts. About 75% of the sample had oolitic porosity and live oil present. A sharp increase of 300 units was noted in the total gas from a background of 15 units. Electric logs show resistivities of 10-20 ohms and average porosities of 14-16%. Refer to show report #2.

WASATCH FORMATION (EOCENE/PALEOCENE) 3746 - 5646

The Wasatch Formation in the southeastern part of the Uintah Basin are sediments from fluvial and lacustrine origin, and deposited in a low lying floodplain or depression.

The formation consists mostly of multi-colored shales, claystones and silts. It is very fine to medium grained, well sorted sandstones of fluvial origin interbedded.

Most gas bearing sands in the Wasatch Formation are clear, salt and pepper in appearance, fine to medium grained subround to round, well sorted and friable.

The first major drilling break and show after entering the Wasatch Formation was at 3850 - .65. A 60 unit increase in gas was noted at that depth. The samples consisted of clear, salt and pepper, fine grained, sub-round, well sorted friable sand. Traces of light yellow fluorescence along with very slow streaming cuts were noted. Visual porosity was good. Corresponding sand on the electric logs is at 3930 - 50. Resistivity through the sand is 7 ohms with average porosities of 18%. See show report #3.

at 4375 - 4400 a sharp increase of 550 units was noted. Samples from this drilling break consisted of clear, salt and pepper, medium grained, well sorted, poorly cemented friable sandstone. Bright blue-white fluorescence with fast flashing milky yellow cuts were noted. Gas was noted bleeding in between the grains in the sample. Resistivity through the sand averaged 25 ohms with an average porosity of 17%.

The 550 units of gas produced 4.2% methane, 1.2% ethane and .5% butane. See Show Report #5

The largest gas show in the Cracker Federal #4 occurred at 4705 - 4735. 660 units of gas came from a clear, white and salt and pepper, fine grained, sub round well sorted, friable sand, with dark brown oil staining. Pale gold fluorescence was noted with very fast milky yellow streaming cuts. A good indicator of oil of condensate is reflected in the gas break down; 10.2% methane, 13.7% ethane, 4.2% propane, .2% butane. Corresponding zone on electric logs is at 4692 - 4718. Average resistivity through the drilling break is 30 ohms with porosities of 17 - 18%. DST #1 4735 - 4792 gas flow rate 149 mcf/d. See show report #6

The interval 4930 - 40 displayed a gas show of 275 units. This drilling break consisted of dark gray to clear, very fine to fine grained friable sand. Traces of light yellow fluorescence with weak cuts were noted. Fair visual porosity was noted in samples. The electric logs indicate the zone is tight with porosities of less than 10% and resistivities of 20 ohms.

The last good gas show in the Wasatch occurred at 5185 - 95. 250 units of gas was noted from a clear, medium grained, sub round well sorted, poorly cemented friable sand with traces of light brown oil staining. Visual porosity was good with fair fluorescence and cut. Corresponding zone of electric log is 5174 - 84. Porosities average 18% with 2 units of cross over resistivity of 15 ohms. See show report #8.

A marginal gas show in the bottom of the Wasatch at 5415 - 35 produced 100 units of gas. Resistivity is 8 ohms with average density and neutron porosities of 14 - 18%.

MESA VERDE FORMATION (UPPER CRETACEOUS) 5646 - TD

The Mesa Verde Formation consists of coalesced unit of wave dominated detritic sediments cut by distributary channel sands.

Commercial natural gas potential is most common in these channel sands in the Mesa Verde Formation. These sands are generally white to clear, have a salt and pepper appearance, fine to medium grained, sub round to round, poorly cemented, moderately sorted and usually contain carbonaceous material.

Shales range from gray to gray green in the top of the formation to dark gray and black in the bottom.

The upper facies of the formation alternate sand and shale with sandstone intervals being 30 - 40 ft. thick. The Mesa Verde in Utah and western Colorado is most known for its commercial coal production.

The Cracker Federal #4 was drilled 47 feet into the top of the Mesa Verde. No shows of any kind were noted.

Thank you for the opportunity to work for TXO Production. It was a great pleasure to work with your field and office personnel. If IGT or myself can be of any further assistance, please feel free to call.

Joe Runge
Geologist - IGT

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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

5. LEASE DESIGNATION AND SERIAL NO.

U-54196

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Cracker Federal

9. WELL NO.

#4

10. FIELD AND POOL, OR WILDCAT

Rockhouse

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

Sec. 7-T11S-R23E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR

TXO Production Corp.

3. ADDRESS OF OPERATOR

1800 Lincoln Center Building, Denver

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

At surface 2016' FNL & 722' FEL (SE, NE)

At top prod. interval reported below Same

At total depth Same

RECEIVED NOV 25 1986

DIVISION OF

OIL, GAS & MINING

14. PERMIT NO. 43-047-31748

9-25-86

15. DATE SPUDDED 10/14/86 16. DATE T.D. REACHED 10/28/86 17. DATE COMPL. (Ready to prod.) 11/9/86 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 5939' KB 19. ELEV. CASINGHEAD 5928'

20. TOTAL DEPTH, MD & TVD 5693' 21. PLUG, BACK T.D., MD & TVD 5140' 22. IF MULTIPLE COMPL., HOW MANY* N/A 23. INTERVALS DRILLED BY [] ROTARY TOOLS 0-5693' CABLE TOOLS 0

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4692-4716 Wasatch 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-SP-DIL; GR-CAL-FDC-CNL 10-31-86 mud GKL 27. WAS WELL CORED No

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

Table with columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Rows include 8-5/8", 4-1/2", 4-1/2" casing sizes.

29. LINER RECORD 30. TUBING RECORD

Table with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD). Shows 'None' for tubing record.

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

5170-5182 .32" 24 shots

4692-4716' .32" 48 shots

Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED. Includes acidizing treatments with 15% W/N2 and CO2 foam.

33.* PRODUCTION 96,000 #20/40 sd.

DATE FIRST PRODUCTION SI, WOPL PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing WELL STATUS (Producing or shut-in) SI, WOPL

DATE OF TEST 11/9/86 HOURS TESTED 6 hrs CHOKE SIZE 24/64" PROD'N. FOR TEST PERIOD [] OIL—BBL. - GAS—MCF. 947 WATER—BBL. - GAS-OIL RATIO -

FLOW. TUBING PRESS. No tbg CASING PRESSURE 1100# CALCULATED 24-HOUR RATE [] OIL—BBL. - GAS—MCF. 3788 WATER—BBL. - OIL GRAVITY-API (CORR.) N/A

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SI, WOPL TEST WITNESSED BY Randy Walck

35. LIST OF ATTACHMENTS

Well History

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

SIGNED Russ E. Gillis TITLE Petroleum Engineer DATE 11/19/86

*(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		38. GEOLOGIC MARKERS													
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.												
Wasatch	4692'	4735'	<p>DST #1: FFP, IO w/ strong blow. Increased to 30# on 1/8" ch. No GIS. FFP, IO w/ 35# on 1/4" ch. GIS in 8 min. Pressure increased to 101# at end of period FARO 149 MCFD.</p> <p>Rec: 138' mud. IHHP 2294#, 30 min IFF 67-107#, 60 min ISIP 2057#, 60 min FFP 107-160#, 120 min FSIP 2057#, FHHP 2294#.</p>												
			<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">NAME</th> <th style="width: 20%;">MEAS. DEPTH</th> <th style="width: 40%;">TOP TRUE VERT. DEPTH</th> </tr> </thead> <tbody> <tr> <td>Green River</td> <td style="text-align: center;">885</td> <td style="text-align: center;">---</td> </tr> <tr> <td>Wasatch</td> <td style="text-align: center;">3746</td> <td style="text-align: center;">---</td> </tr> <tr> <td>Mesa Verde</td> <td style="text-align: center;">5646</td> <td style="text-align: center;">---</td> </tr> </tbody> </table>	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH	Green River	885	---	Wasatch	3746	---	Mesa Verde	5646	---
NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH													
Green River	885	---													
Wasatch	3746	---													
Mesa Verde	5646	---													

COMPANY: TXO

UT ACCOUNT #N1580 SUSPENSE DATE: _____

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: DIEDY EVANS

CONTACT TELEPHONE NO.: 1-303-861-4246

SUBJECT: Cracken #4
115 23E 7
4304731748
Conf.

Evacuation Creek State #1
115 25E 36
4304731307

(Use attachments if necessary)

RESULTS: Called Dee re other wells and she advised me that these wells are both SWOPFC as of this date.

(Use attachments if necessary)

CONTACTED BY: VC

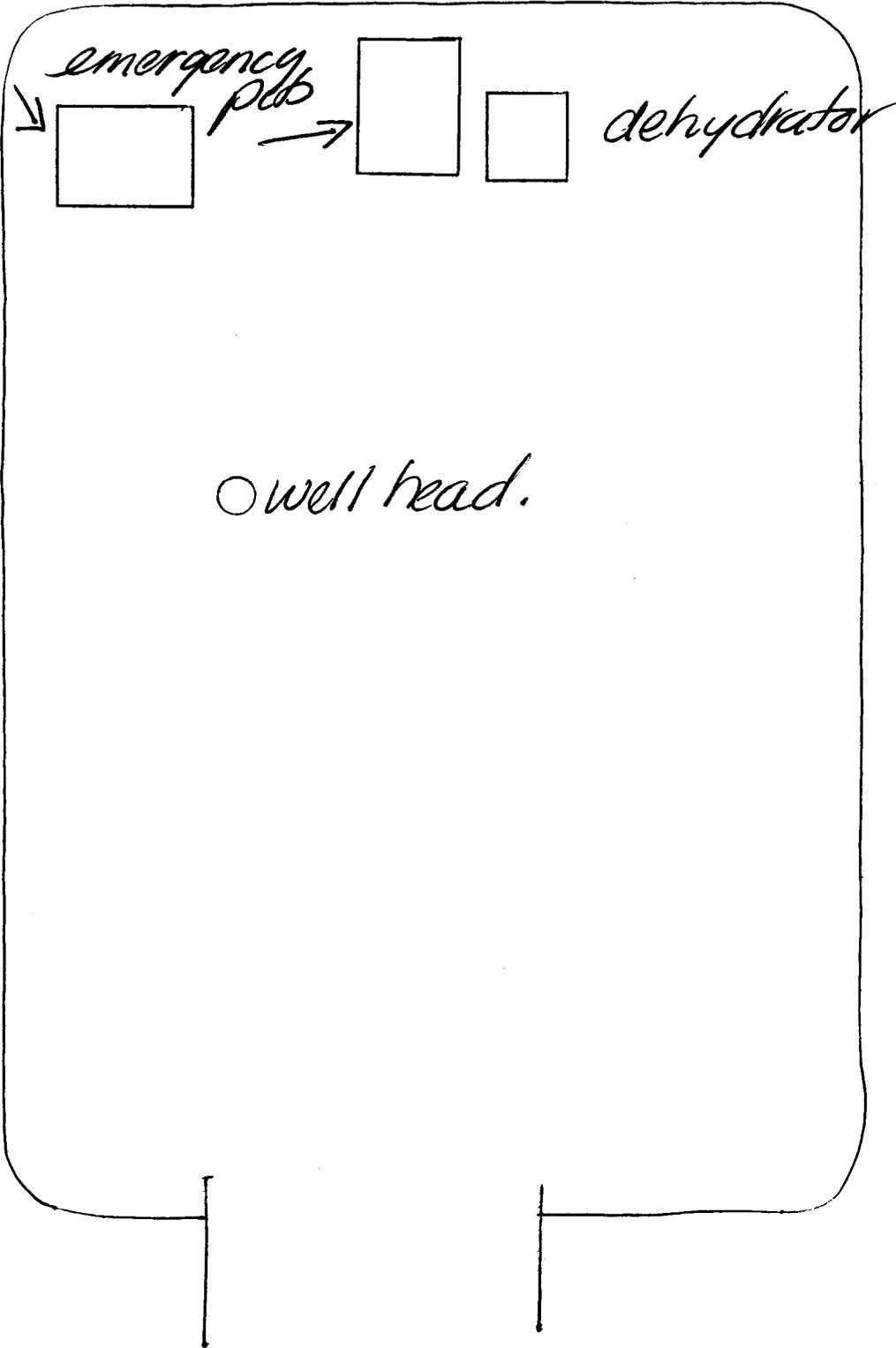
DATE: 1-7-87

Cracker Id.
#4

Sec 7, 11 & R23E

Bubly 11/9/88

17



42-381 50 SHEETS 3 SQUARE
42-382 100 SHEETS 3 SQUARE
42-383 200 SHEETS 3 SQUARE
NATIONAL
MADE IN U.S.A.



355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. • (801-538-5340)

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• TXO PRODUCTION CORP.
P. O. BOX 2690
CODY WY 82414
ATTN: R. P. MEABON

Utah Account No. N1580
Report Period (Month/Year) 12 / 90
Amended Report

Well Name	Producing Zone	Days Oper	Production Volume		
			Oil (BBL)	Gas (MSCF)	Water (BBL)
EVACUATION CREEK STATE "A" #1 4304731674 10661 12S 25E 2	ML-28043 DKTA				
CRACKER FEDERAL #4 4304731748 10669 11S 23E 7	U-54196 WSTC				
MARBLE HANSTON UNIT #1 4304731865 10997 11S 23E 18	U-54201 WSTC		NEED SUCCESSOR to knit ops. (TXO-to Marathon)		
BRIDLE FEDERAL 4 4304731866 11011 06S 22E 34	U-47866 UNTA				
CROQUET FEDERAL 3 4304731867 11013 06S 21E 35	U-53862 UNTA				
STIRRUP FEDERAL 29-2 4304731508 11055 06S 21E 29	U-46699 GRRV				
STIRRUP FEDERAL #29-3 4304731634 11056 06S 21E 29	U-46699 GR-WS				
STIRRUP STATE #32-1 4304731557 11057 06S 21E 32	ML-22036 GRRV				
STIRRUP STATE #32-2 4304731626 11058 06S 21E 32	ML-22036 GR-WS				
FOOTBALL FED. 29-4 4304731883 11085 06S 21E 29	U-46699 UNTA				
TOTAL					

Comments (attach separate sheet if necessary) _____

I have reviewed this report and certify the information to be accurate and complete. Date _____

Authorized signature _____ Telephone _____

DOGm - FYI - From Connie Larson - TAX Commission

Tax Compliance Division



Findlay, Ohio 45840
Telephone 419/422-2121

January 23, 1991

N1580

TO WHOM IT MAY CONCERN:

Effective immediately after the close of business on December 31, 1990, TXO Production Corporation, taxpayer I.D. 75-1710388, a Delaware Corporation, was merged into Marathon Oil Company, taxpayer I.D. 25-1410539.

Following the merger, all business activity previously conducted by TXO Production Corporation will be conducted by and under the name of Marathon Oil Company.

Marathon Oil Company
Tax Organization

GRL:pah
GRL100T

FEB 14 1991
REC'D USTC P.B.

Send a copy to Room 2-21-91

Copy sent to Master
Sale Mail

RECEIVED
JAN 24 1991



**Marathon
Oil Company**

P.O. Box 2690
Cody, Wyoming 82414
Telephone 307/587-4961

DIVISION OF
OIL, GAS & MINING

dg
1-3
My DRU
- C R Furth

January 22, 1991

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

UTAH DIVISION OF OIL, GAS & MINING
3 Triad Center, Ste. 350
Salt Lake City, UT 84180-1203
Attention: State Director

Re: The Merger of TXO Production Corp. into
Marathon Oil Company

Gentlemen:

As Marathon Oil Company advised in its October 8, 1990 letter, TXO Production Corp., a Delaware corporation ("TXO") was being merged into Marathon Oil Company, an Ohio corporation ("Marathon"), on or before January 1, 1991. As stated in the October letter, before this merger, both TXO and Marathon were subsidiaries of USX Corporation.

Effective January 1, 1991, TXO was merged into Marathon, with Marathon becoming the surviving corporation, as evidenced by the enclosed Certificate of Merger signed by the Secretary of State for the State of Ohio. Due to this statutory merger, by operation of law, Marathon, as the surviving entity, has succeeded to all of the assets, property, rights, privileges, power and authority, and has assumed all obligations and liabilities of TXO which existed on the date of the merger.

Marathon requests that your records and filings be changed to reflect this merger, including making any appropriate change in your operator or ownership records. For the purposes of any change, mailing or notification, please substitute the following address and phone number for TXO:

Marathon Oil Company
Attention: Mr. R. P. Meabon
1501 Stampede Avenue
P. O. Box 2690
Cody, WY 82414
(307) 587-4961

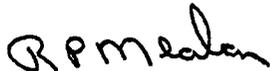
Utah Division of Oil, Gas & Mining
January 22, 1991
Page 2

Any bond in the name of TXO should be cancelled and all wells and properties shown on the attached Exhibit "A" should be placed on Marathon's statewide bond for the state of Utah.

Marathon respectfully requests that you acknowledge your receipt of this letter by signing the enclosed duplicate original of this letter in the space provided below, and returning it to me in the self-addressed, stamped envelope provided. Also, please provide Marathon with confirmation of the bond cancellations in accordance with the substitution requested above.

Marathon appreciates your patience and cooperation in this matter, and if Marathon can be of any further assistance, please feel free to contact this office.

Sincerely,



R. P. Meabon
Regulatory Coordinator
Rocky Mountain Region
Extension 3003

RPM:mh

Attachments

RECEIVED AND ACCEPTED THIS _____ DAY OF _____,
1991, BY:

[Governmental Agency or Department]

By _____
Name _____
Its _____
Title _____

UNITED STATES OF AMERICA,
STATE OF OHIO,
OFFICE OF THE SECRETARY OF STATE.

I, Sherrod Brown

do hereby certify that I am the duly elected, qualified and present acting Secretary of State for the State of Ohio, and as such have custody of the records of Ohio and Foreign corporations; that said records show an AGREEMENT OF MERGER of MARATHON PETROLEUM COMPANY, an Ohio corporation, Charter No. 7265, having its principal location in Findlay, County of Hancock, and incorporated on August 1, 1887, and TXO PRODUCTION CORP., a Delaware corporation, having qualified to do business within the State of Ohio on November 2, 1983, under License No. 623328, into MARATHON OIL COMPANY, an Ohio corporation, Charter No. 584981, the survivor of said Merger, filed in this office on December 24, 1990, recorded in the Records of Incorporation. Said surviving corporation, MARATHON OIL COMPANY, an Ohio corporation, Charter No. 584981, having its principal location in Findlay, County of Hancock, was incorporated on November 18, 1981 and is currently in GOOD STANDING upon the records of this office.

WITNESS my hand and official seal at

Columbus, Ohio, this

28th day of December, A.D. 1990

Sherrod Brown

Sherrod Brown
Secretary of State



Routing:

1- LCR	<i>h</i>
2- DTB	<i>CS</i>
3- VLC	<i>✓</i>
4- RJF	<i>✓</i>
5- RWM	<i>h</i>
6- LOR	<i>h</i>

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-1-91)

TO (new operator) <u>MARATHON OIL COMPANY</u>	FROM (former operator) <u>TXO PRODUCTION CORP.</u>
(address) <u>P. O. BOX 2690</u>	(address) <u>P. O. BOX 2690</u>
<u>CODY, WY 82414</u>	<u>CODY, WY 82414</u>
phone <u>(307) 587-4961</u>	phone <u>(307) 587-4961</u>
account no. <u>N 3490</u>	account no. <u>N1580</u>

Well(s) (attach additional page if needed): *****MERGER*****

Name: <u>**SEE ATTACHED**</u>	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(see documentation)*
- Yes 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec. 1-24-91)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) _____ If yes, show company file number: _____.
- Yes 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- Yes 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(2-26-91)*
- Yes 6. Cardex file has been updated for each well listed above.
- Yes 7. Well file labels have been updated for each well listed above.
- Yes 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- Yes 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 5, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond. *(Federal & State wells only)* *(upon completion of routing)*
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) yes. Today's date February 27, 1991. If yes, division response was made by letter dated March 1, 1991.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases. *Smt 3-5-91*

MICROFILMING

- 1. All attachments to this form have been microfilmed. Date: March 11 1991.

FILED

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

910204 Bfm/Mcab ~~No doc. as of yet.~~ (In the process of changing) will call when approved.
 Bfm/S.Y. Book Cliffs Unit, Oil Springs Unit, Marble Mansion Unit (Not approved as of yet)

910204 St. Lands - No documentation as of yet. (Copy hand delivered 2-8-91) see

910222 Bfm/S.Y. - Approved 2-20-91 - OK for ODSM to recognize eff. date 1-1-91. (T. Thompson)

910226 St. Lands - Needs additional info. "will take 2-3 weeks". (Proceed with change per DTS)

1/34-35

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED **WRF-999**
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

RECEIVED

OCT 19 1992

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Marathon Oil Company

**DIVISION OF
OIL GAS & MINING
(307) 587-4961**

3. Address and Telephone No.
P.O. Box 2690 Cody, Wyoming 82414

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2016' FNL & 722' FEL Sec.7, T11S, R23E

5. Lease Designation and Serial No.

U-54196

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Cracker Federal #4

9. API Well No.

43-047-31748

10. Field and Pool, or Exploratory Area

Rockhouse

11. County or Parish, State

Uintah Co., Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Status Change</u>	<input type="checkbox"/> Dispose Water

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

13. 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.)*

Prior Status: Active Wasatch Gas Producer.
Present Status: Shut-in Wasatch Gas Producer, July 24, 1992.

RECEIVED
RECEIVED
SEP 30 1992
SEP 30 1992

Dist: BLM-orig.+3(SUDOGM-2,WRF,FMK,WTR-4,DMJ,Title & Cont.(Hou.))

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

Signed RPM

Title Regulatory Coordinator

Date Sept.28,1992

(This space for Federal or State office use)

Approved by

NOTED

Title

Date OCT 08 1992

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

<p>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>		<p>5. LEASE DESIGNATION & SERIAL NO. See Below</p>
<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>2. NAME OF OPERATOR Marathon Oil Company</p>		<p>7. UNIT AGREEMENT NAME</p>
<p>3. ADDRESS OF OPERATOR P.O. Box 2690, Cody, Wyoming 82414</p>		<p>8. FARM OR LEASE NAME See Below</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface At proposed prod. zone See Below</p>		<p>9. WELL NO. See Below</p>
<p>14. API NO. See Below</p>		<p>10. FIELD AND POOL, OR WILDCAT See Below</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.)</p>		<p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA See Below</p>
<p>12. COUNTY Grand and Uintah</p>		<p>13. STATE Utah</p>

RECEIVED

FEB 25 1993

DIVISION OF
OIL GAS & MINING

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

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

APPROX. DATE WORK WILL START _____

DATE OF COMPLETION _____

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.)

* Must be accompanied by a cement verification report.

On 2/22/93 with an effective date of October 1, 1992, Marathon Oil Company sold all of its rights, title and interests shown on Exhibit 'A' and 'B' to:

Lone Mountain Production Company
P.O. Box 3394, 408 Production Building
Billings, Montana 59103-3394

By copy of this sundry notice to Lone Mountain Production Company, Marathon is advising that Lone Mountain Production Company is responsible for operating these leases and wells within the federal and state rules and regulations.

Utah O&G--cc: WRF,RDS,CLB,RPM,KJI,TITLE AND CONTR(HOU),ACCTG.,CFR,LONE MTN. PROD.

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

SIGNED R.P. Meabon *R.P. Meabon* TITLE Regulatory Coordinator DATE 2/23/93

(This space for Federal or State office use)

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

See Instructions On Reverse Side

List of Properties sold by Marathon Oil Company to Lone Mountain Production Company, P.O. Box 3394, 408 Petroleum Building, Billings, Montana 59103-3394

WELL	LOCATION	LEASE	API #
North Horse Point Field			
Little Berry State #1	SW/4 SW/4, Sec. 2-16S-23E	ML-21061	043-019-31075
BAR X West Field			
Hancock Federal #2	NW/4 SW/4, Sec. 5-17S-25E	U-38720	043-019-30833
Bryson Canyon Field			
Hougen Federal A#1- St #1	SW/4 SW/4 Sec. 14-17S-24E	U-42480	043-019-30799
TXO Pogo USA #19-9	NE/4 SE/4, Sec. 15-17S-24E	U-49535	043-019-30779
East Canyon Field			
Callister Federal #1	NW/4 SE/4 Sec. 24-16S-24E	U-38363	043-019-30857
Ptasynski Federal #1	NE/4 NW/4 Sec. 15-17S-23E	U-24603-A	043-019-30780
Horseshoe Bend Field			
Bridle Federal #1	SW/4 SW/4 Sec. 34-6S-22E	U-47866	043-047-31533
Bridle Federal #2	NE/4 SE/4 Sec. 34-6S-22E	U-47866	043-047-31655
Bridle Federal #3	SE/4 NE/4 Sec. 34-6S-22E	U-47866	043-047-31678
Bridle Federal #4	SE/4 NE/4 Sec. 34-6S-22E	U-47866	043-047-31866
Croquet Federal #1	SE/4 NE/4 Sec. 35-6S-21E	U-53862	043-047-31440
Croquet Federal #2	NE/4 SE/4 Sec. 35-6S-21E	U-53862	043-047-31672
Croquet Federal #3	NE/4 NW/4 Sec. 35-6S-21E	U-53862	043-047-31867
Football Fed #29-4	SE/4 SW/4 Sec. 29-6S-21E	U-46699	043-047-31883
Shuffleboard Fed #1	NE/4 NE/4 Sec. 27-6S-21E	U-31255	043-047-31668
Stirrup Fed. #28-1	NW/4 SW/4 Sec. 28-6S-21E	U-34711	043-047-31571
Stirrup Fed. #29-2	NW/4 SE/4 Sec. 29-6S-21E	U-46699	043-047-31508
Stirrup Fed. #29-3	SE/4 SE/4 Sec. 29-6S-21E	U-46699	043-047-31634
Stirrup State #32-1	NW/4 NE/4 Sec. 32-6S-21E	ML-22036	043-047-31557
Stirrup State #32-2	SE/4 NE/4 Sec. 32-6S-21E	ML-22036	043-047-31626
Stirrup State #32-4	NW/4 NE/4 Sec. 32-6S-21E	ML-22036	043-047-31648
Rockhouse Field			
Cracker Fed. #1	SE/4 NE/4 Sec. 8-11S-23E	U-54197	043-047-31532
Cracker Fed. #2	SE/4 SE/4 Sec. 8-11S-23E	U-54197	043-047-31690
Cracker Fed. #3	SW/4 SE/4 Sec. 5-11S-23E	U-54193	043-047-31689
Cracker Fed. #4	SE/4 NE/4 Sec. 7-11S-23E	U-54196	043-047-31748
Marble Mansion #1	SE/4 SE/4 Sec. 18-11S-23E	U-54201	043-047-31865
Wells Fed. A #1	SW/4 SE/4 Sec. 12-11S-23E	U-54198	043-047-31603

San Arroyo Field

Arco Fed. B #1	SE/4 SE/4 Sec. 6-16S-25E	U-9831	043-019-30552
Arco Fed. C #1	NW/4 NW/4 Sec. 35-16S-25E	U-06188-B	043-019-30572
Arco Fed. D #1	NE/4 SE/4 Sec. 34-16S-25E	U-29645	043-019-30578
Arco Fed. H #1	NW/4 SW/4 Sec. 12-16S-25E	U-0126528	043-019-31002
Bennion Fed. #1	NE/4 NW/4 Sec. 30-16S-25E	U-24632	043-019-30893
BMG Fed. #1	NE/4 NW/4 Sec. 8-16S-26E	U-05015	043-019-31017
BMG Fed. #2	SW/4 SW/4 Sec. 8-16S-26E	U-05015	043-019-31108
BMG Fed. #3	SW/4 SW/4 Sec. 8-16S-26E	U-05015-A	043-019-31114
BMG Fed. #4	NW/4 NW/4 Sec. 17-16S-26E	U-05015-A	043-019-31130
BMG Fed. #5	NW/4 SW/4 Sec. 8-16S-26E	U-05015-A	043-019-31131
BMG Fed. #7	NW/4 SE/4 Sec. 17-16S-26E	U-05015-A	043-019-31183
Bookcliffs #1	SE/4 SE/4 Sec. 32-18S-22E	U-036905	043-019-15410
Bookcliffs #3	SW/4 NE/4 Sec. 33-18S-22E	U-036905	043-019-15411
Credo Fed. #1	NE/4 SE/4 Sec. 5-16S-26E	U-24638	043-019-30797
Credo Fed. A #1	SE/4 NW/4 Sec. 5-16S-26E	U-24638	043-019-30798
Grynberg Fed. #1	NE/4 SW/4 Sec. 28-16S-25E	U-13653	043-019-30657
Harvey Fed. #1-X	SW/4 SE/4 Sec. 5-16S-25E	U-10427	043-019-30574
Lauck Fed. A #1	SE/4 SE/4 Sec. 29-16S-25E	U-34033	043-019-30990
Lauck Fed. #2	NW/4 SW/4 Sec. 29-16S-25E	U-34033	043-019-31109
Moxa Fed. #1	SW/4 SW/4 Sec. 9-16S-26E	U-24638	043-019-30698
Moxa Fed. A #1	NE/4 SE/4 Sec. 4-16S-26E	U-24638	043-019-30792
Nicor Fed. #1	NW/4 NE/4 Sec. 28-16S-25E	U-31807	043-019-30656
Nicor Fed. #2	NW/4 NE/4 Sec. 33-16S-25E	U-13653	043-019-31020
Texas Pac St #1	NW/4 SE/4 Sec. 36-16S-25E	ML-4468-A	043-019-30634
Texas Pac St #2	SW/4 SW/4 Sec. 36-16S-25E	ML-4468-A	043-019-30670
Valentine Fed. #1	SE/4 SW/4 Sec. 35-16S-25E	U-38276	043-019-30639
Valentine Fed. #2	SE/4 NW/4 Sec. 34-16S-25E	U-38276	043-019-30640
Valentine Fed. #3	SE/4 SW/4 Sec. 35-16S-25E	U-38276	043-019-31009
Wall Fed. #1	NE/4 SW/4 Sec. 30-16S-25E	U-24632	043-019-30838

Oil Springs Field

Oil Springs #5	NE/4 SW/4 Sec. 5-12S-24E	U-08424-A	043-047-15930
Oil Springs #7	SE/4 SW/4 Sec. 4-12S-24E	U-08424-A	043-047-31248
Oil Springs #10	NE/4 NE/4 Sec. 5-12S-24E	U-08424-A	043-047-31656

Evacuation Creek Field

Evacuation Creek State A #1	NE/4 NE/4 Sec. 2-12S-25E	ML-28043	043-047-31674
Evacuation Cr.#23-2-1	NE/4 SW/4 Sec. 2-12S-25E	ML-28043	043-047-15675
Evacuation Creek State #1	SE/4 SW/4 Sec. 36-11S-25E	ML-39868	043-047-31307

LONE MOUNTAIN PRODUCTION COMPANY

P.O. BOX 3394
408 PETROLEUM BUILDING
BILLINGS, MONTANA 59103-3394
(406) 245-5077
FAX 248-6321

February 22, 1993

State of Utah
Dept. of Natural Resources
Division of Oil, Gas, & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84180

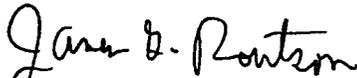
Re: Change of Operator
Sundry Notices
Grand and Uintah Counties, Utah

Gentlemen:

Enclosed in triplicate are Sundry Notices for 53 wells located on Federal lands in Utah for which Lone Mountain Production Company is assuming operations effective February 22, 1993. Two separate lists of the wells and lease numbers, by sorted by BLM district, are attached. The wells were all previously operated by Marathon Oil Company. If any further information is needed please advise either me or Joe Dyk in our Grand Junction office.

Very truly yours,

Lone Mountain Production Company



James G. Routson
President

Enclosures

xc: Joe Dyk
Marathon

RECEIVED

FEB 25 1993

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
U-54196

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Cracker Fed. No. 4

9. API Well No.
43-047-31748

10. Field and Pool, or Exploratory Area
Rock House

11. County or Parish, State
Uintah County, Utah

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Lone Mountain Production Company

3. Address and Telephone No.
P.O. Box 3394, Billings, MT 59103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2016' FNL, 722' FEL, Sec. 7-T11S-R23E
(SE $\frac{1}{4}$ NE $\frac{1}{4}$)

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent <input checked="" type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. 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.)*

Lone Mountain Production Company has assumed operations of the above referenced well effective February 22, 1993. The former operator was Marathon Oil Company.

Bond Coverage is provided by Lone Mountain's Statewide Oil & Gas BLM Bond No. UT0719.

Field Operations will be handled by our Grand Junction office.

RECEIVED

FEB 25 1993

DIVISION OF
OIL GAS & MINING

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

Signed James S. Parker Title Petroleum Engineer Date Feb. 22, 1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

RECEIVED

FEB 25 1995

UTAH FEDERAL WELLS

VERNAL BLM DISTRICT

DIVISION OF
OIL GAS & MINING

<u>WELL</u>	<u>LEASE NO.</u>	<u>LOCATION</u>
Shuffleboard Fed. No. 1	U-31255	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 27-T6S-R21E
Stirrup Fed. No. 28-1	U-34711	NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 28-T6S-R21E
Stirrup Fed. No. 29-2	U-46699	NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 29-T6S-R21E
Stirrup Fed. No. 29-3	U-46699	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 29-T6S-R21E
Football Fed. No. 29-4	U-46699	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 29-T6S-R21E
Croquet Fed. No. 1	U-53862	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 35-T6S-R21E
Croquet Fed. No. 2	U-53862	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 35-T6S-R21E
Croquet Fed. No. 3	U-53862	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35-T6S-R21E
Bridle Fed. No. 1	U-47866	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34-T6S-R22E
Bridle Fed. No. 2	U-47866	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 34-T6S-R22E
Bridle Fed. No. 3	U-47866	SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 34-T6S-R22E
Bridle Fed. No. 4	U-47866	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34-T6S-R22E
Cracker Fed. No. 1	U-54197	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 8-T11S-R23E
Cracker Fed. No. 2	U-54197	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 8-T11S-R23E
Cracker Fed. No. 3	U-54193	SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 5-T11S-R23E
Cracker Fed. No. 4	U-54196	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 7-T11S-R23E
Marble Mansion Unit #1	U-54201	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 18-T11S-R23E
Wells Fed. A No. 1	U-54198	SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 12-T11S-R23E
Oil Springs Unit #5	U-08424-A	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 5-T12S-R24E
Oil Springs Unit #7	U-08424-A	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 4-T12S-R24E
Oil Springs Unit #10	U-08424-A	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 5-T12S-R24E

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

SUBMIT IN TRIPLICATE

MAR 22 1993

DIVISION OF
OIL GAS & MINING
RECEIVED

FEB 25 1993

5. Lease Designation and Serial No.

U-54196

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Cracker 4

9. API Well No.

See Below

10. Field and Pool, or Exploratory Area

See Below

11. County or Parish, State

See Below

Marathon Oil Company

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator

3. Address and Telephone No.

P.O. Box 2690, Cody, Wyoming 82414

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SENT 7-115-23E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

VERNAL DIST.
ENG. 227 3163
GEOL.
E.S.
PET.
A.M.

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other

- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

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

13. Describe Proposed or Completed Operations (Clearly state in pertinent detail, 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.)*

On 2/22/93 with an effective date of October 1, 1992, Marathon Oil Company sold all of its rights, title and interests shown on Exhibits 'A' and 'B' to:

Lone Mountain Production Company
P.O. Box 3394, 408 Petroleum Building
Billings, Montana 59103-3394

Marathon Oil Company has emergency NTL-2B pit permits for these wells and associated operations and by copy of this sundry notice to Lone Mountain Production Company, Marathon is advising that Lone Mountain Production Company is responsible for operating the pits in compliance with NTL-2B regulations as well as all other state and federal regulations.

BLM-orig & 3--cc: WRF, RDS, CLB, RPM, KJI, TITLE AND CONTR(HOU), ACCTG., CFR,
Lone Mtn. Prod. Co.

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

Signed *RP Mealer*

Title Regulatory Coordinator

Date 2/23/93

(This space for Federal or State office use)

Approved by *[Signature]*
Conditions of approval, if any.

Title ASSISTANT DISTRICT
MANAGER MINERALS

Date MAR 10 1993

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

Marathon Oil Company
Change of Operator

CONDITIONS OF APPROVAL

We have reviewed your proposal for technical adequacy and concur with the request providing the following stipulations are included as a part of the approval.

1. This change of operator approval is for the following wells only:

<u>WELL NAME & NUMBER</u>	<u>LEASE NUMBER</u>
Stirrup Fed. 28-1	U - 34711
Stirrup Fed. 29-2	U - 46699
Stirrup Fed. 29-3	U - 46699
Stirrup Fed. 29-4	U - 46699
Croquet Fed. 1	U - 53862
Croquet Fed. 3	U - 53862
Bridle Fed. 1	U - 47866
Bridle Fed. 2	U - 47866
Bridle Fed. 3	U - 47866
Bridle Fed. 4	U - 47866
Cracker Fed. 1	U - 54197
Cracker Fed. 2	U - 54197
Cracker Fed. 3	U - 54193
Cracker Fed. 4	U - 54196
Wells Fed. 1	U - 54198

2. The other wells as listed in the attachment to this sundry notice are denied. The reason for denial is because the wells are either in a Communitization Agreement (C.A.) or a Federal Unit or they are located outside of the Vernal District. Changes of operator for wells that are C.A.s or Federal Units needed to be filed with our BLM State Office in Salt Lake City, Utah. The changes for the other wells will need to be filed in the appropriate District or Resource Area Office.

RECEIVED

MAR 22 1993

DIVISION OF
OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
U-54196

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Lone Mountain Production Company

3. Address and Telephone No.

P.O. Box 3394, Billings, MT 59103

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2016' FNL, 722' FEL, Sec. 7-T11S-R23E
(SE $\frac{1}{4}$ NE $\frac{1}{4}$)

RECEIVED

MAR 21 1993

DIVISION OF
OIL GAS & MINING

Well Name and No.

Cracker Fed. No. 4

9. API Well No.

43-047-31748

10. Field and Pool, or Exploratory Area
Rock House

11. County or Parish, State

Uintah County, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)*

Lone Mountain Production Company has assumed operations of the above referenced well effective February 22, 1993. The former operator was Marathon Oil Company.

Bond Coverage is provided by Lone Mountain's Statewide Oil & Gas BLM Bond No. UT0719.

Field Operations will be handled by our Grand Junction office.

RECEIVED

FEB 25 1993

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

Signed James S. Parkson

Title Petroleum Engineer

Date Feb. 22, 1993

(This space for Federal or State office use)

Approved by Edwin A. Dorman

Title Assistant District Manager

ASSISTANT DISTRICT
MANAGER MINERALS

Date MAR 23 1993

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

Routing:

1-LEC	7-DEC
2-DEPTS	
3-VLC	✓
4-RJF	✓
5-RWM	✓
6-ADA	✓

Attach all documentation received by the division regarding this change.
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 10-1-92)

TO (new operator)	<u>LONE MTN PRODUCTION CO</u>	FROM (former operator)	<u>MARATHON OIL COMPANY</u>
(address)	<u>P. O. BOX 3394</u>	(address)	<u>P. O. BOX 2690</u>
	<u>BILLINGS, MT 59103-3394</u>		<u>CODY, WY 82414</u>
	<u>phone (406) 245-5077</u>		<u>phone (307) 587-4961</u>
	<u>account no. N 7210</u>		<u>account no. N 3490</u>

Well(s) (attach additional page if needed):

Name: **SEE ATTACHED**	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

OPERATOR CHANGE DOCUMENTATION

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 2-25-93)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 2-25-93)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(3-24-93)*
- See 6. Cardex file has been updated for each well listed above. *(3-24-93)*
- See 7. Well file labels have been updated for each well listed above. *(3-24-93)*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(3-24-93)*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) . Today's date 19 . If yes, division response was made by letter dated 19 .

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 19 , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- All attachments to this form have been microfilmed. Date: March 29 1993.

FILING

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

- 930316 Btm/Moab Approved some of the wells on 3-10-93 eff. 2-23-93. (see other change.)
- 930323 Btm/Vernal Approved some of the wells on 3-16-93 eff. 10-1-92. The remaining wells are unitized or under a C.A. (will be handled on separate change.)
- 930324 Btm/Vernal Approved same wells on 3-23-93, operation of wells eff. 2-22-93.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
 1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801

MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

SUSAN GUFFEY
 LONE MTN PRODUCTION CO
 PO BOX 3394
 BILLINGS MT 59103-3394

UTAH ACCOUNT NUMBER: N7210

REPORT PERIOD (MONTH/YEAR): 6 / 96

AMENDED REPORT (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
BAR X UNIT #12								
4301930597	08187	17S 26E 8	MRSN					
STATE 54 GRAND #1								
4301915910	08344	16S 26E 32	DKTA					
TOC TXO POGO USA 15-9								
4301930779	09155	17S 24E 15	DKTA					
FEDERAL #1								
4301915699	09221	18S 23E 3	DKTA					
EVACUATION CREEK STATE 23-2-1								
4304715675	09605	12S 25E 2	DKTA					
✓ CROQUET FEDERAL #1								
4731440	09635	06S 21E 35	UNTA			U38464		
✓ CROQUET FEDERAL #2								
4304731672	09636	06S 21E 35	UNTA	U59862		CA UT080F49-86C696		
SHUFFLEBOARD FEDERAL #1								
4304731668	09842	06S 21E 27	UNTA	U31255		CA UT080F49-86C692		
STIRRUP STATE #32-4								
4304731648	10183	06S 21E 32	UNTA					
✓ CRACKER FEDERAL #3								
4304731689	10581	11S 23E 5	WSTC			U54193		
EVACUATION CREEK STATE "A" #1								
4304731674	10661	12S 25E 2	DKTA					
✓ CRACKER FEDERAL #4								
4304731748	10669	11S 23E 7	WSTC			U54196		
HANCOCK FEDERAL #15-3								
4301931235	10681	17S 25E 15	DKTA					
Federal 17-6								
4304732752	99999	11S 23E 17	DRL	U54200	TOTALS	Marble Mansion II Unit		

COMMENTS: _____

I hereby certify that this report is true and complete to the best of my knowledge. Date: _____
 Name and Signature: _____ Telephone Number: _____

LONE MOUNTAIN PRODUCTION COMPANY

Mailing Address:
P.O. Box 3394
Billings, MT 59103-3394

(406) 245-5077
FAX 248-6321

Shipping Address:
100 North 27th Street
Suite 650
Billings, MT 59101

August 7, 1996

Lisha Cordova
Utah Division of Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

VIA FAX: 1-801-359-3940

**RE: RESIGNATION OF OPERATOR
VARIOUS WELLS
UINTAH COUNTY, UTAH**

Dear Lisha:

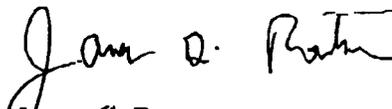
Pursuant to your telephone conversation with Carolyn George this afternoon, attached is a list of federal wells previously operated by Lone Mountain Production Company in the referenced county.

Lone Mountain has resigned as operator of the aforementioned wells and accepts the transfer of operations to Rosewood Resources, Inc., effective August 1, 1996.

Should you have any questions or need further information please contact our office at the letterhead address or phone number.

Sincerely,

LONE MOUNTAIN PRODUCTION COMPANY


James G. Routson
President

Attachment

UTAH FEDERAL WELLS

VERNAL BLM DISTRICT

<u>Well</u>	<u>Lease No.</u>	<u>Location</u>
Shuffleboard Federal No. 1	U-31255	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 27: T6S-R21E
Stirrup Federal No. 28-1	U-34711	NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 28: T6S-R21E
Football Federal No. 29-4	U-46699	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 29: T6S-R21E
Croquet Federal No. 1	U-53862	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 35: T6S-R21E
Croquet Federal No. 2	U-53862	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 35: T6S-R21E
Croquet Federal No. 3	U-53862	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 35: T6S-R21E
Bridle Federal No. 1	U-47866	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 34: T6S-R22E
Bridle Federal No. 2	U-47866	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 34: T6S-R22E
Bridle Federal No. 3	U-47866	SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 34: T6S-R22E
Bridle Federal No. 4	U-47866	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 34: T6S-R22E
Cracker Federal No. 1	U-54197	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8: T11S-R23E
Cracker Federal No. 2	U-54197	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 8: T11S-R23E
Cracker Federal No. 3	U-54193	SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 5: T11S-R23E
Cracker Federal No. 4	U-54196	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 7: T11S-R23E
Marble Mansion Unit No. 1	U-54201	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 18: T11S-R23E
Oil Springs Unit No. 5	U-08424-A	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 5: T12S-R24E
Oil Springs Unit No. 7	U-08424-A	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 4: T12S-R24E
Oil Springs Unit No. 10	U-08424-A	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 5: T12S-R24E

UTAH FEDERAL WELLS*(Rosewood Resources, Inc. assumed operations effective August 1, 1996)***BLM VERNAL DISTRICT**

No.	WELL NAME	LEASE NO.	LOCATION in Uintah County
1)	Shuffleboard Fed. No. 1	U-31255	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 27-T6S-R21E
2)	Stirrup Fed. No. 28-1	U-34711	NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 28-T6S-R21E
3)	Football Fed No 29-4	U-46699	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 29-T6S-R21E
4)	Croquet Fed. No. 1	U-53862	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 35-T6S-R21E
5)	Croquet Fed. No. 2	U-53862	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 35-T6S-R21E
6)	Croquet Fed. No. 3	U-53862	NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 35-T6S-R21E
7)	Bridle Fed. No. 1	U-47866	SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34-T6S-R22E
8)	Bridle Fed. No. 2	U-47866	NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 34-T6S-R22E
9)	Bridle Fed. No. 3	U-47866	SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 34-T6S-R22E
10)	Bridle Fed. No. 4	U-47866	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 34-T6S-R22E
11)	Cracker Fed. No. 1	U-54197	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 08-T11S-R23E
12)	Cracker Fed. No. 2	U-54197	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 08-T11S-R23E
13)	Cracker Fed. No. 3	U-54193	SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 05-T11S-R23E
14)	Cracker Fed. No. 4	U-54196	SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 07-T11S-R23E
15)	Marble Mansion Unit #1	U-08424-A	SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 18-T11S-R23E
16)	Oil Springs Unit #5	U-08424-A	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 05-T12S-R24E
17)	Oil Springs Unit #7	U-08424-A	SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 04-T12S-R24E
18)	Oil Springs Unit #10	U-08424-A	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 05-T12S-R24E



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

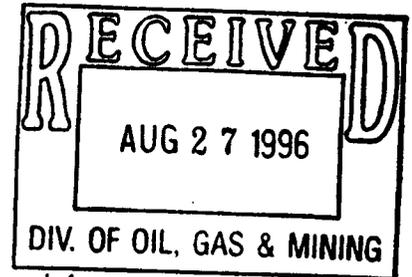
Vernal District Office
170 South 500 East
Vernal, Utah 84078-2799

Phone: (801) 781-4400
Fax: (801) 781-4410

IN REPLY REFER TO:
3162.3
UT08300

August 26, 1996

Rosewood Resources, Inc.
Attn: Janet Hambright
100 Crescent Sourt, Suite 500
Dallas, TX 75201



Re: Well No. Cracker Federal 4
SENE, Sec. 7, T11S, R23E
Lease U-54196
Uintah County, Utah

Dear Ms. Hambright:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, Rosewood Resources, Inc. is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. MT0627, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Margie Herrmann or Pat Sutton of this office at (801) 789-1362.

Sincerely,

Howard B. Cleavinger II
Assistant Field Manager
Minerals Resources

cc: Lone Mountain Production Company
~~XXXXXXXXXXXXXXXXXXXX~~
Best Exploration Inc.
DJ Investment Co.
Marceil Fees Trust
J&K Properties Inc.
T-K Production Co.

Don F. Bradshaw Trust
W S Fees Jr Trust
Harold B. Holden
Morgan Marathon Ltd.
John W. Warner

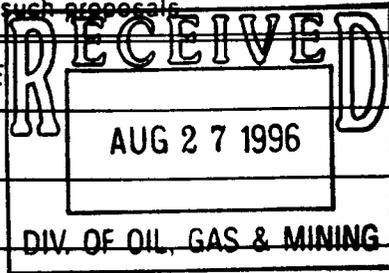
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No 1004-0135
Expires March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE



5 Lease Designation and Serial No
U-54196

6 If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
Cracker Fed. No. 4

9. API Well No.
43-047-31748

10. Field and Pool, or Exploratory Area
Rock House

11. County or Parish, State
Uintah County, Utah

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
Rosewood Resources, Inc.

3. Address and Telephone No.
100 Crescent Court, Suite 500, Dallas, TX 75201 (214) 871-5700

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2016' FNL, 722' FEL, Section 7: T11S-R23E (SE 1/4 NE 1/4)

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)

Rosewood Resources, Inc. has assumed operation of the above referenced well effective August 1, 1996. The former operator was Lone Mountain Production Company.

Bond Coverage is provided by Rosewood's Nationwide Oil & Gas Bond No. MT0627.

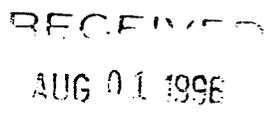
VERNAL DIST.
ENG. EM

GEOL. _____

S.S. _____

PET. _____

A.M. _____



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

Signed [Signature] Title Production Engineer Date August 1, 1996

(This space for Federal or State office use)

Approved by [Signature] Title Assistant Field Manager Date AUG 26 1996

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR CHANGE WORKSHEET

Routing:	
1-LEC ✓	6-LEC ✓
2-GLH ✓	7-KDR ✓
3-DTS ✓	8-SJ ✓
4-VLD ✓	9-FILE ✓
5-RJF ✓	

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed, effective: 8-1-96

TO: (new operator) ROSEWOOD RESOURCES INC
 (address) 100 CRESCENT COURT #500
DALLAS TX 75201
 Phone: (214)871-5718
 Account no. N7510

FROM: (old operator) LONE MTN PRODUCTION CO
 (address) PO BOX 3394
BILLINGS MT 59103-3394
 Phone: (406)245-5077
 Account no. N7210

WELL(S) attach additional page if needed:

Name: **SEE ATTACHED**	API: <u>43047-31748</u>	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____
Name: _____	API: _____	Entity: _____	S _____	T _____	R _____	Lease: _____

OPERATOR CHANGE DOCUMENTATION

- Yec 1. (r649-8-10) Sundry or other legal documentation has been received from the FORMER operator (attach to this form). (Rec'd 8-7-96)
- Yec 2. (r649-8-10) Sundry or other legal documentation has been received from the NEW operator (Attach to this form). (Rec'd 8-7-96)
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is the company registered with the state? (yes/no) _____ If yes, show company file number: _____
- Yec 4. FOR INDIAN AND FEDERAL WELLS ONLY. The BLM has been contacted regarding this change. Make note of BLM status in comments section of this form. BLM approval of Federal and Indian well operator changes should ordinarily take place prior to the division's approval, and before the completion of steps 5 through 9 below.
- Yec 5. Changes have been entered in the Oil and Gas Information System (3270) for each well listed above. (8-29-96)
- Yec 6. Cardex file has been updated for each well listed above.
- Yec 7. Well file labels have been updated for each well listed above.
- Yec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to Trust Lands, Sovereign Lands, UGS, Tax Commission, etc.
- Yec 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- Yes 1. (r649-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no If entity assignments were changed, attach copies of Form 6, Entity Action Form.
- N/A 2. Trust Lands, Sovereign Lands, Tax Commission, etc., have been notified through normal procedures of entity changes.

BOND VERIFICATION - (FEE WELLS ONLY)

- N/A 1. (r649-3-1) The NEW operator of any fee lease well listed above has furnished a proper bond.
- Yes 2. A copy of this form has been placed in the new and former operator's bond files.
- 3. The FORMER operator has requested a release of liability from their bond (yes/no) , as of today's date . If yes, division response was made to this request by letter dated .

LEASE INTEREST OWNER NOTIFICATION OF RESPONSIBILITY

- N/A 1. Copies of documents have been sent on to at Trust Lands for changes involving State leases, in order to remind that agency of their responsibility to review for proper bonding.

FILMING

- YDP 1. All attachments to this form have been microfilmed. Today's date: 9/18/96.

FILING

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form, and the original attachments are now being filed in the Operator Change file.

COMMENTS

960829 Btm/Vernal Aprx. 8-26-96.

5. Lease Designation and Serial Number:

U-54196

6. If Indian, Allocated or Tribe Name:

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

7. Unit Agreement Name:

8. Well Name and Number:

Cracker Federal 4

9. API Well Number:

43-047-31748

10. Field and Pool, or Wildcat:

Rockhouse

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:
Rosewood Resources Inc.

3. Address and Telephone Number:
100 Crescent Ct. Ste 500 Dallas Tx 75201 (214)871-5700

4. Location of Well Sec. 7 T113 R23E

Footages: 2016 FNL 722 FGL

QQ, Sec., T., R., M.: SENE

County: Uintah

State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandon *
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other Recomplete in additional Wasatch zone
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

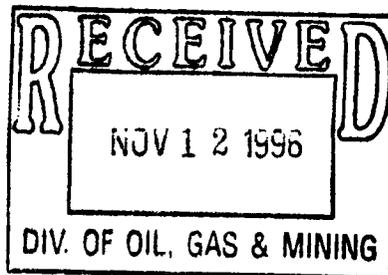
Date of work completion _____

Report results of Multiple Completions and Re Completions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

See attached 3160-5 Form.



13.

Name & Signature:

James McNeill

Title:

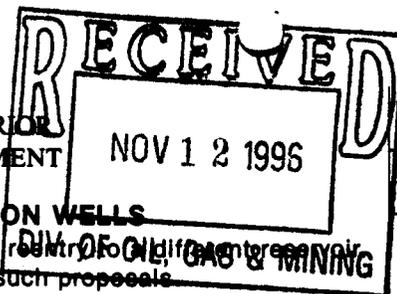
Prod. Engr.

Date:

11/8/96

(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or re-enter a well, or for proposals to plug a well. Use "APPLICATION FOR PERMIT—" for such proposals.

5. Lease Designation and Serial No.

U-54196

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

Rosewood Resources Inc.

3. Address and Telephone No.

100 Crescent Ct. Ste 500 Dallas, Tx 75201 (214) 871-5723

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2016 FNL 722 FEL Sec. 7 T11S R23E
(SENE)

7. If Unit or CA, Agreement Designation

8. Well Name and No.

Cracker Federal 4

9. API Well No.

43-047-31748

10. Field and Pool, or Exploratory Area

Rockhouse

11. County or Parish, State

Uintah Co, Utah

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)*

10/28/96 Killwell, NUBOP, TOH w/ tubing. TIH w/ bit & scraper to 4687.
 10/29/96 TOH w/ bit & scraper. Set CIBP @ 4630. Test Casing to 2500' - OK. Ran Cement Bond log.
 10/30/96 Swab down to 2300. Perf Wasatch 4362-B2 w/ 4 HPF, 100psi at surface after perf. TIH w/ Otis XN nipple w/ plug in place, 6ft tubing sub and Guiberson Un. VI plcr w/ ON/off tool on wireline. Packer at 4287. Tubing at 4302. TIH w/ ON/off seal connector, 130jts 2 3/8 J-55 tubing, 1-4ft and 2-10ft tubing subs and 1jt tubing. NUBOP. Latch into on/off Tool. NU Tree.
 10/31/96 Pull plug from XN nipple. Made 1 swab run and well started flowing. Tested 4 hrs on various chokes - Tubing pressure from 990 - 960, rate 1.4 MCF/D to 1.7 MCF/D. Shut in for storm. 1 hr shut in pressure 1600.
 11/1/96 Hook up to production facilities. Shut in pressure 1650.
 First Production 5pm 11/1/96 to Cracker gathering line. 1000 MCF/D rate 1370 FTP.
 11/4/96 FTP 930 905 MCF/D 15/64 choke.

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

Signed

[Signature]

Title

Prod. Engr.

Date

11/6/96

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.
UTU-54196

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
MARBLE MANSION 11

8. Well Name and No.
CRACKER #4

9. API Well No.
43-047-31748

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH CO., UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator
ROSEWOOD RESOURCES, INC.

3. Address and Telephone No.
P.O. Box 1668, Vernal, UT 435-789-0414

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SENE SEC 7 T11S R23E

12. INDICATE NATURE OF

G

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other TA STATUS

Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

13. 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.)*

Rosewood Resources respectfully requests an extension of the TA status of the above mentioned well due to rig availability.

THIS SUNDRY IS BEING RETURNED; INSUFFICIENT DATA WAS SUBMITTED TO APPROVE THE REQUESTED ACTION (See R619-3-36)

Thank You,
Jill Henrie
435-789-0414 x10

Utah Division of Oil, Gas and Mining

JUN 09 2005

DIV. OF OIL, GAS & MINING

COPIES: ORIG. & 2-BLM; DIV. OG&M;

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

Signed Jill Henrie Title Administrative Assistant Date 06/07/05

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

COPY SENT TO OPERATOR
Date: 6-15-05
Initials: CHD



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410

<http://www.blm.gov/utah/vernal/index.html>



IN REPLY REFER TO:

Well File

August 18, 2006

CERTIFIED MAIL NUMBER 7006 0100 0004 0588 9295

RETURN RECEIPT REQUESTED

43-047-31748
11S 23E 7

Attn: Jill Henrie
Rosewood Resources, Inc.
P.O. Box 1668
Vernal, UT 84078

Re: Idle wells, 2006, Uintah Basin, Utah

Dear Ms. Henrie:

Enclosed is a list of Rosewood Resources, Inc. wells that have unapproved or expired temporarily abandoned status. This list contains wells that have no reported production activity. Wells which have had no recent production activity and/or stripped of equipment need to be plugged and abandoned thus reducing the liability on public lands.

Within sixty (60) days of your receipt of this letter, please submit Rosewood's Plan for Plug and Abandonment, Notices of Intent to Abandon (NOIA) and timeframe to plug and abandon the wells by March 31, 2007 which have had no recent production activity and/or stripped of equipment.

Other well's, not addressed by Rosewood to be plugged and abandoned, need to be returned to production or requested by Sundry Notice to have temporarily abandoned status reinstated for a twelve (12) month period. Requests for temporarily abandoned status shall address in detail the future utility of the well bore and time period for when the well will be returned to production.

Within sixty (60) days of your receipt of this letter, please submit a Sundry Notice for each well requesting temporarily abandoned status or a Sundry Notice stating the well has been returned to production.

This is an Order of the Authorized Officer (see 43 CFR 3162.1(a)). Failure to comply with this letter will be considered an act of noncompliance pursuant to 43 CFR 3163.1(a). Please see 43 CFR 3165.3 for information on your review and appeal rights. If you have any questions, please feel free to contact Matt Baker of this office at (435) 781-4490.

Sincerely,

Jerry Kenczka
Acting Assistant Field Manager
Mineral & Land Resources

RECEIVED

OCT 20 2006

DIV. OF OIL, GAS & MINING

Idle Wells 2006 Uintah Basin, Utah

Attn: Jill Henrie
 Rosewood Resources Inc.
 P.O.Box 1668
 Vernal, UT 84078
 435-789-0414

API number	Well name	Well #	Lease/CA #	Status	State	County	QTR	SEC	TWP/LAT	RGE/LON	Last Prod	Comments				
												Documentation	Approved	Expired	Inspected	
43-047-31248		7	UTU08424A	TA	UT	Uintah	SESW	4	12S	24E	Never	Sundry TA	8/5/2005	8/5/2006	No	Access? Road washed out
43-047-15809	Rockwell House	1	UTU0799	TA	UT	Uintah	SESE	10	11S	23E	Never	Sundry TA	3/9/2004	3/1/2005	Yes	Compressor
43-047-15806D1	Rainbow	2-A	UTU0529	TA	UT	Uintah	NESW	18	11S	24E	Feb-96	Inspection report 3-18-04			Yes	Head only
43-047-31678	Bridal Fed	3	UTU47866	TA	UT	Uintah	SWNW	34	6S	22E	Aug-00	Sundry TA	3/9/2004	3/1/2005	Yes	Head only
43-047-31866	Bridal Fed	4	UTU47866	TA	UT	Uintah	SENE	34	6S	22E	Nov-96	Sundry TA	3/9/2004	3/1/2005	Yes	Tanks missing
	Cracker Fed	4	UTU54196	TA	UT	Uintah	SENE	7	11S	23E					Yes	Head disconnected



October 17, 2006

Matt Baker
Petroleum Engineer
United States Department of the Interior
Bureau of Land Management
Vernal Field Office
170 South 500 East
Vernal, Utah 84078

Re: Correspondence dated 08/18/06 idle wells, Uintah Basin, UT
Oil Springs #7 API #43-047-31248
Bridle Federal #3 API #43-047-31678
Bridle Federal #4 API #43-047-31866
Cracker Federal #4 API #43-047-31748
Rainbow 2A API #43-047-15806D1
Rockhouse Unit #1 API #43-047-15809

Dear Mr. Baker:

In response to your letter dated August 18, 2006 please find attached sundry notices to test the above referenced wells and bring them back on line. If such testing should yield the well non-productive, a subsequent sundry will be submitted for your approval to P&A these wells.

At this time we would also like to request an additional 10 days to complete our research on the Rainbow 2A and Rockhouse Unit #1 wells. Our research should be completed and ready for submittal on October 27th, 2006.

The proposed work on the above wells will commence as soon as we are able to secure a workover rig in the area. Please let me know if you have any questions. I can be reached at 303-991-4690 Ext 107, or 303-877-4670 (Cell).

Sincerely,

Jerry H. Dietz
Production Manager
Rosewood Resources, Inc.

Encl.

Rosewood Resources, Inc.
265 East 100 South
P.O. Box 1668
Vernal, Utah 84078
435-789-0414
435-789-0479 (Fax)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.

UTU-54196

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA, Agreement Designation

Marble Mansion II Unit

8. Well Name and No.

Cracker Fed. #4

9. API Well No.

43-047-31748

10. Field and Pool, or Exploratory Area

Rockhouse

11. County or Parish, State

UINTAH CO., UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

ROSEWOOD RESOURCES, INC.

3. Address and Telephone No.

P.O. Box 1668, Vernal, UT 435-789-0414

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SE/NE SEC 7, T11S, R23E
2016' FNL 722' FEL

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other See attached
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

13. 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.)*

Please see attached proposed workover procedure.

If you have any questions please feel free to call Jerry Dietz @ 303-991-4690 Ext. 107

Thank You
Jill Henrie
Administrative Assistant
Rosewood Resources, Inc.

COPY SENT TO OPERATOR
Date: 11-7-06
Initials: RM

COPIES: ORIG. & 2-BLM; DIV. OG&M; DALLAS OFFICE, DENVER OFFICE

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

Signed Jill Henrie Title Administrative Assistant Date 10/17/06

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

Accepted by the
Utah Division of
Oil, Gas and Mining

Federal Approval Of This
Action Is Necessary

RECEIVED

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or document.

Date: 10/17/06
By: Jerry Dietz

OCT 20 2006
DIV. OF OIL, GAS & MINING

Cracker Federal 4 Workover Procedure

Procedure

1. MIRU Pulling Unit.
 2. NU BOPE & unload 900 ft 2-3/8" workstring.
 3. Swab test existing perforations from 4362-4383'.
 4. Release pkr & POOH w/ tbg. LD pkr, XN nipple & WL re-entry guide.
 5. RIH w/ 3-7/8" bit and 6 DC's on tbg. Tag CIBP @ 4630 KB.
 6. Establish reverse circulation (may need foam unit) and drill out CIBP @ 4630 KB.
 7. Continue in-hole w/ tbg and cleanout to 5100 KB.
 8. POOH w/ tbg & LD DC's and bit.
 9. Hydrotest & RIH w/ pkr & SN on tbg to 4650 KB. Set pkr @ 4620 KB.
 10. Swab test perforations from 4692-4716'.
 11. Release pkr and POOH to 4300 KB. Set pkr @ 4300 KB.
 12. Load & PT annulus to 500 psi (possible csg leak due to pkr being in the hole).
 13. MIRU stimulators and acidize perforations from 4362-4383' & 4692-4716' w/ 1500 gal 15% HCL, ball sealers and 1500 gal 15% HCL, over displace by 10 bbls into top perf.
 14. Flow back or swab back load volume and swab test well.
 15. Release pkr & POOH w/ tbg. LD pkr & SN.
 16. RIH w/ production string as follows: 2-3/8" Bull Plug w/ 1/2" hole drilled in btm, 1 jnt 2-3/8" tbg, 4' 2-3/8" perforated sub, cup-type SN & 2-3/8" tbg.
 17. Land tbg w/ SN @ +/- 4775 KB.
 18. ND BOPE.
 19. RIH w/ RHAC pump and 3/4" "D" rods.
 20. Seat & space out pump.
 21. PT tbg to 300 psi w/ wtr truck. PT tbg to 300 psi w/ unit.
 22. RDMO Pulling Unit.
 23. Prepare location for production (set tanks, meter run, pumping unit, etc.)
 24. RTP.
-

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reenter a different reservoir.
Use "APPLICATION FOR PERMIT -" for such proposals

5. Lease Designation and Serial No.
UTU-54196

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit or CA, Agreement Designation
Marble Mansion II Unit

8. Well Name and No.
Cracker Fed. #4

9. API Well No.
43-047-31748

10. Field and Pool, or Exploratory Area
Rockhouse

11. County or Parish, State

UINTAH CO., UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator
ROSEWOOD RESOURCES, INC.

3. Address and Telephone No.
P.O. Box 1668, Vernal, UT 435-789-0414

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SE/NE SEC 7, T11S, R23E
2016' FNL 722' FEL

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

Notice of Intent
 Subsequent Report
 Final Abandonment Notice

TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other status
 Change of Plans
 New Construction
 Non-Routine Fracturing
 Water Shut-Off
 Conversion to Injection
 Dispose Water

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

13. 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.)*

In response to Jerry Kenczka's letter dated 8/18/06 Rosewood Resources, Inc. has returned the above mentioned well to producing status at 11:30 A.M. on 2/13/07. Please feel free to call with any concerns.

Please see attached rig reports.

Thank You
Jill Henrie Rosewood Resources, Inc.
Vernal Utah Field Office
435-789-0414 x10

COPIES: ORIG. & 2-BLM; DIV. OG&M; DALLAS OFFICE, DENVER OFFICE

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

Signed *[Signature]* Title Administrative Assistant Date 04/03/07

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

RECEIVED

APR 04 2007

ROSEWOOD RESOURCES, INC.**Daily Workover Report****WELL NAME: Cracker #4**Legals: SENE SEC 7 T11S R23E
County: UINTAH UTAHEngineer: J. Dietz / T. Urruty
Field Supervisor: D. Atwood

12/27/06

MIRU

Daily cost \$2,458 cum. cost \$2,458 A.F.E. \$ 311,500

12/28/2006

0 psi on tbg. 4 psi on csg.
Rigged up rig.
Rigged up to swab.
Initial fluid level @ 400'. Made 5 runs, 3 of them from seat nipple. Well swabbed down.
Started swabbing. 1 run per 30 min. Made 3 runs.
Recovered 16 1/4 bbls water total, no gas.
Final fluid level @ 4100'.
S.D.F.N.

Daily cost \$9,525 cum. cost \$11,983 A.F.E. \$ 311,500

12/29/2006

20 psi on tbg. 0 psi on csg. Shut in for 14 hours.
Started swabbing. Initial fluid level @ 800'.
Made 3 runs, well swabbed down.
Started making 1 run per hour.
Made 2 runs recovering 2 bbls per hour.
Recovered 11 1/4 bbls total.
Nipple down wellhead. Nipple up BOP. Tagged up on cast iron bridge plug @ 4630'.
Pooh w/ 1 jt, 2 - 10' tbg, sub's, 1 - 4' tbg, sub, 130 jts 2 3/8" tbg, on/off tool, packer, 1- 6' tbg, sub, XN nipple & wireline re-entry guide.
Shut down for Holiday.

Daily cost \$5,922 cum. cost \$17,905 A.F.E. \$ 311,500

1/2/2007

25 psi on well. Shut in for 86 hours.
Wait on hydrotester.
Rigged up hydrotester, his winch would not work.
Rigged hydrotester down.
Rih w/ 4 1/2" packer, seat nipple, 102 jts 2 3/8" tbg. Seat packer @ 3326'.
Rigged up Weatherford.
Tested packer to 500#. Tested good.
Started pumping. Pumped 10 bbl's. Started dropping balls, 1890 psi.
38 bbls & 100 balls away 1843# 4.7 bpm.
On flush 48 bbls away 1847# 4.7 bpm.

On flush 48 bbls away 1847# 4.7 bpm.
61 bbls 1870# balls on perf's 4.7 bpm.
109 bbls 1935# shut down 4.7 bpm.
ISIP 850#.
5 min 540#.
10 min 425#.
15 min 360#.
Surged balls off perf's 300#.
Average rate 4.7 bpm. Average pressure 1867#.
Rigged down Weatherford.
OPEN

Daily cost \$20,903 cum. cost \$38,808 A.F.E. \$ 311,500

1/3/2007

0 psi on tbq.
Tbq full of ice.
Thaw tbq & started swabbing.
Initial fluid level @ surface.
Made 7 runs. Well swabbed down.
Started making 1 run every 30 min. Made 8 runs.
Recovering 30 bbls total. 81 bbls load left to recover.
2 bbls entry per hour.
S.D.F.N.

Daily cost \$6,050 cum. cost \$44,858 A.F.E. \$ 311,500

1/4/2007

0 psi on tbq.
Started swabbing.
Initial fluid level @ 600'.
Made 7 runs. Well swabbed down.
Started making 1 run every 30 min. Made 8 runs.
Final fluid level @ 3100'.
Recovering 32 1/4 bbls total. 62 1/4 bbls load recovered.
18 3/4 bbls load left to recover.
3 bbls entry per hour. No gas.
S.D.F.N.

Daily cost \$6,050 cum. cost \$50,908 A.F.E. \$ 311,500

1/5/2007

0 psi on tbq.
Started swabbing.
Initial fluid level @ 600'.
Made 7 runs. Well swabbed down.
Started making 1 run every 30 min. Made 8 runs.
Final fluid level @ 3200'.
Recovering 29 1/2 bbls total. 91 3/4 bbls load recovered.
17 1/4 bbls load left to recover.
3 bbls entry per hour. No gas.
S.D.F.N.

Daily cost \$6,050 cum. cost \$56,958 A.F.E. \$ 311,500

1/8/2007

110 psi on tbg. Shut in for 86 hours. Blew down in 2 min.
Unseat packer. Pooh w/ 102 jts 2 3/8" tbg. Seat nipple & 4 1/2" packer.
Rih w/ 3 7/8" bit, bit sub, 6 - drill collars, crossover & 136 jts 2 3/8" tbg.
Rigged up swivel. Started drilling on plug @ 4630'.
Could not keep circulation while drilling.
Frac balls plugging off bit.
Circulated well clean.
Rigged down swivel.
Pooh w/ 10 jts to get above perf's.
S.D.F.N.

Daily cost \$12,028 cum. cost \$68,986 A.F.E. \$ 311,500

1/9/2007

0# on tbg. 0# on csg.
Rih w/ 10 jts tbg.
Rigged up, started drilling.
Drilled down through 1' of frac balls & 1' of CIBP.
Circulated clean.
Ring on bridge plug spinning.
S.D.F.N.

Daily cost \$7,345 cum. cost \$76,331 A.F.E. \$ 311,500

1/10/2007

0# on tbg. 0# on csg.
Started drilling.
Drilled for 2 hours, bit wore out.
Pooh w/ 136 jts 2 3/8" tbg. Change over 6 - drill collars, bit sub & bit.
Rih w/ new bit, bit sub, 6 - drill collars & 136 jts 2 3/8" tbg.
Rigged up & started drilling.
Drilled through plug. Well went on suck. We lost circulation. Lost 120 bbls total.
Rih w/ 13 jts tbg. Tagged fill @ 5054'.
Pooh w/ 149 jts 2 3/8" tbg. Laid down change over, 6 - drill collars, bit sub & bit.
S.D.F.N.

Daily cost \$7,814 cum. cost \$84,145 A.F.E. \$ 311,500

1/11/2007

0# on well.
Rih w/ packer, seat nipple, 143 jts 2 3/8" tbg. Set packer @ 4640'.
Rigged up & started swabbing.
Initial fluid level @ 2400'.
Made 21 runs. Recovered 78 bbls gas cut water, some gas after run.
Final fluid level @ 4300'.
S.D.F.N.

Daily cost \$6,114 cum. cost \$90,259 A.F.E. \$ 311,500

1/12/2007

450 psi on tbg. Took 45 min to blow well down.
Started swabbing.
Initial fluid level @ 900'.
Made 9 runs, recovered 34 bbls water.

Made 9 runs, recovered 34 bbls water.
 Well would flow for 20 min after run.
 Final fluid level @ 3300'.
 Shut down do to bad weather.

Daily cost \$5,345 cum. cost \$95,604 A.F.E. \$ 311,500

1/15/2007

600 psi on tbg. 15 psi on csg.
 Started flowing well on 14/64" choke for 1 hour.
 Opened choke up to 16/64". Well flowing @ 580# for 1 hour.
 Opened choke up to 20/64". Well flowing @ 350# for 1 hour.
 Pressure started dropping. Opened choke up to 64/64". Well started unloading water. Made 10 bbls in 2 hours.
 Put well though 1/4" orifice tester. Well flowed @ 250# for 2 hours.
 Put in 3/4" orifice tester. Well flowed @ 55# for 2 hours at a rate of 800 MCF. No back pressure.
 S.D.F.N.

Daily cost \$5,992 cum. cost \$101,596 A.F.E. \$ 311,500

1/16/2007

60 psi on tbg. 15 psi on csg.
 Well flowing to tank overnight though 3/4" orifice tester.
 Flowed well to tank all day.
 75 psi on tbg.
 Mist of water every two min for 15 sec.
 S.D.F.N.

Daily cost \$5,992 cum. cost \$107,588 A.F.E. \$ 311,500

1/17/2007

75 psi on tbg. 15 psi on csg.
 Well flowing to tank overnight though 3/4" orifice tester.
 Flowed well to tank 1/2 day 75 psi on tbg.
 Mist of water every two min for 15 sec.
 Unset packer. Nipple down BOP. Picked up 1 jt. Set packer @ 4670'. Nipple up well head.
 Well started flowing. Flowing at 649 MCF. 40# on TBG. 15# on casing.
 S.D.F.N.

Tubing detail

Description	length	depth
K.B.	8.00	8.00
Tbg. hanger	.87	8.87
144 jts. 2/38" tbg.	4653.65	4662.52
Seat nipple	1.10	4663.62
4 1/2" Arrowset pkr.	6.25	4669.87
End of Tbg.		4669.87

Daily cost \$8,169 cum. cost \$115,757 A.F.E. \$ 311,500

1/18/2007

Rig down move off location. Flow testing well through orifice tester on 3/4" orifice @ 80#. Flow rate of 1104 MCFD with no

Rig down move off location. Flow testing well through orifice tester on 3/4" orifice @ 80#. Flow rate of 1104 MCFD with no back pressure.

Daily cost \$4,000 cum. cost \$119,757 A.F.E. \$ 311,500

1/19/07 A.M. - Flow testing well through orifice tester on 3/4" orifice @ 72#. Flow rate of 1011 MCFD with no back pressure.
1/19/07 P.M. - Flow testing well through orifice tester on 3/4" orifice @ 52#. Flow rate of 779 MCFD. Wellhead is simulating 300# LP. Well is on a 17/64" choke.

1/20/07 A.M. - Flow testing well through orifice tester on 3/4" orifice @ 80#. Flow rate of 1104 MCFD. Wellhead is simulating 300# LP. Well is on a 17/64" choke.

1/20/07 P.M. - Flow testing well through orifice tester on 3/4" orifice @ 55#. Flow rate of 814 MCFD. Wellhead is simulating 310# LP. Well is on a 15/64" choke.

1/21/07 A.M. - Flow testing well through orifice tester on 3/4" orifice @ 55#. Flow rate of 814 MCFD. Wellhead is simulating 500# LP. Well is on a 17/64" choke. (froze @ choke)

1/21/07 P.M. - Flow testing well through orifice tester on 3/4" orifice @ 65#. Flow rate of 930 MCFD. Wellhead is simulating 300# LP. Well is on a 14/64" choke.

01/22/07 - Flow testing well through orifice tester on 3/4" orifice @ 12#. Flow rate of 288 MCFD. Wellhead is simulating 490# LP. Well is on a 14/64" choke. Choke froze. Shut well in.

01/23/07 - Well shut in. TP 575#. CP 65#.

01/24/07 - Well shut in. TP 600#. CP 65#. Waiting on production equipment. Will resume reports upon further well activity.

2/1/2007

Set and hook up surface equipment.
Waiting for canyon gas to set the gas meter.

Daily cost \$54,647 cum. cost \$174,404 A.F.E. \$ 311,500

2/13/07 Turned well on at 11:30 A.M. TP 690# CP 40#. Well Produced 2 MCF on a 64" Choke. No fluid.
2/14/07 TP 260# CP 40#. Well produced 710 MCF in 24 hours on a 64" choke. No fluid.
2/15/07 TP 200# CP 30#. Well produced 669 MCF in 24 hours on a 64" choke. 23 BBLS water. 0 oil.
2/16/07 TP 190# CP 28#. Well produced 420 MCF in 24 hours on a 64" choke. 8 BBLS water. 0 oil.
2/17/07 TP 190# CP 28#. Well produced 491 MCF in 24 hours on a 64" choke. 10 BBLS water. 0 oil.
2/18/07 TP 165# CP 29#. Well produced 350 MCF in 24 hours on a 64" choke. 5 BBLS water. 0 oil. Dump valve stuck open.

Daily cost \$1,000 cum. cost \$175,404 A.F.E. \$ 311,500

FINAL REPORT