

COPY

PALMER OIL & GAS COMPANY

P.O. Box 2564
BILLINGS, MONTANA 59103
(406) 248-3151



August 13, 1979

U. S. Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Gentlemen:

Enclosed please find an Application For Permit To Drill covering
our No. 28-15 well in Grand County, Utah.

Sincerely,

PALMER OIL & GAS COMPANY

A handwritten signature in cursive script that reads "Donna Nyby".

Donna Nyby
Drilling Department

dln

Enclosures

cc: State of Utah
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116



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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Palmer Oil & Gas Company

3. ADDRESS OF OPERATOR
P. O. Box 2564, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 325' FSL, 2175' FWL SE-SW
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 40 miles Northwest of Mack, Colorado

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
325'

16. NO. OF ACRES IN LEASE
1280'

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
7200' Morrison

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7360' G.L., 7371' K.B.

22. APPROX. DATE WORK WILL START*
October 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" new	K-55 36#	120'	150 sacks
8 3/4"	7" new	K-55 20#	3200'	150 sacks
6 1/4"	4 1/2" new	K-55 10.5# & 11.6#	7200'	225 sacks

- Surface formation is the Mesaverde.
- Anticipated geologic markers are: Castlegate-3021, Frontier-6291, Dakota-6471, Morrison-6710
- Gas is anticipated in the Dakota and Morrison. No water, oil, or other minerals are anticipated.
- Proposed casing program: See item No. 23 above.
- Pressure control equipment: See attached well control plan and schematic of drilling contractors BOP stack. BOP's will be tested before drilling out from under surface casing and will be checked daily.
- Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered approximately 300 bbls. of gel type mud will be used. The well will be air drilled from under surface casing to T.D.
- Auxiliary Equipment: See well control plan.
- The logging program will consist of an IES log from TD to the base of intermediate casing, and GR-FDC-SNP or CNL logs from TD to above the Frontier. No cores or DST's are planned.
(Con't on next page.)

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 Robert D. Ballantyne TITLE Drilling Superintendent DATE August 9, 1979
Robert D. Ballantyne

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

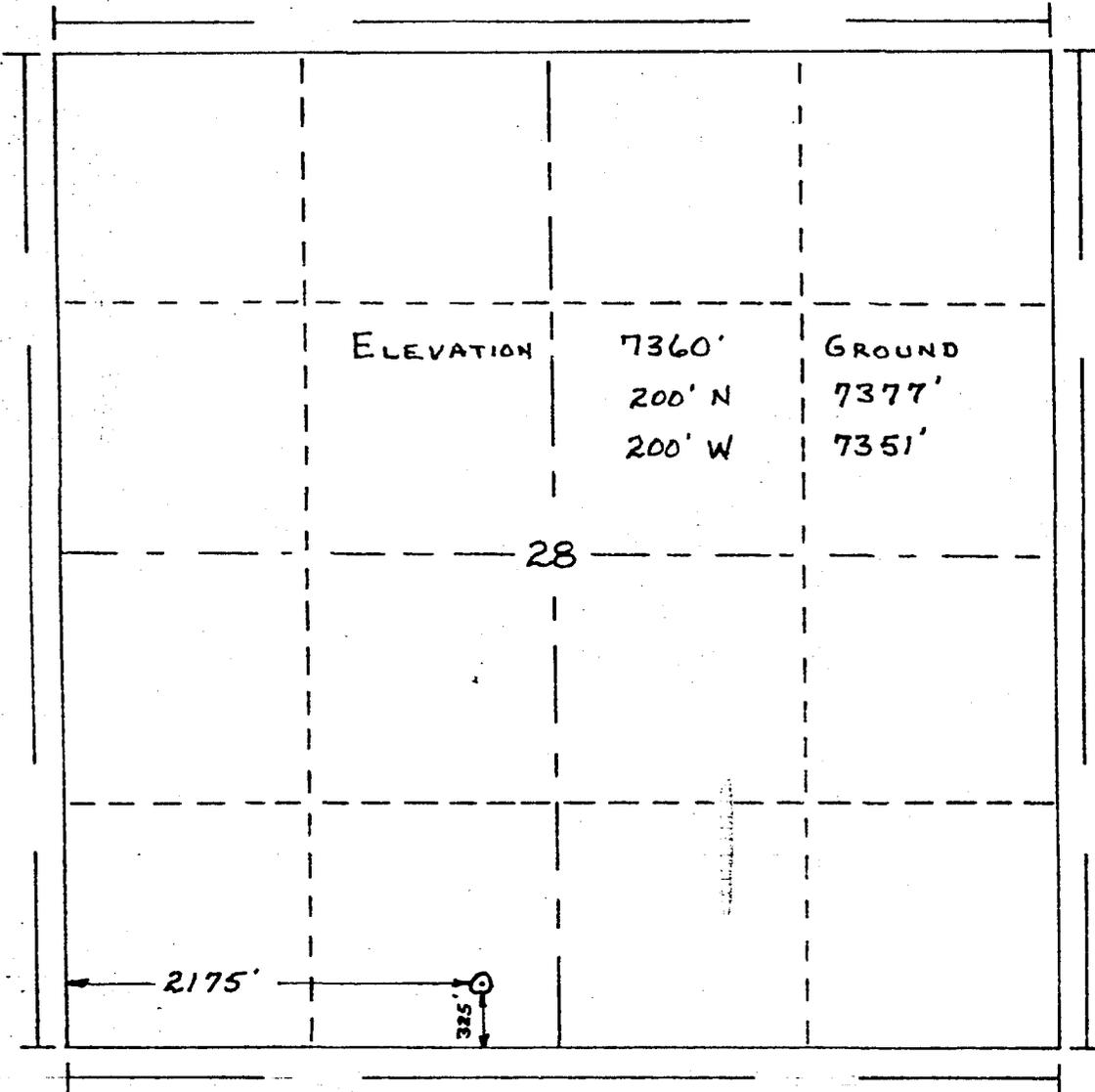
APPLICATION FOR PERMIT TO DRILL (Con't)

9. No abnormal pressures or temperatures anticipated. No poisonous gas anticipated.
10. Anticipated spud date is October 1, 1979, depending on rig availability. Completion operations should commence within 30 days of rig release.
11. Survey plats are enclosed.
12. The gas is dedicated to Southwest Gas Corporation.
13. The spacing unit is the west half of Section 28, containing 320 acres.
14. Designation of Operator forms enclosed.
15. Lease expires May 1, 1980.



PLAT NO. 1

R. 24 E.



T.
16
S.

Scale... 1" = 1000'

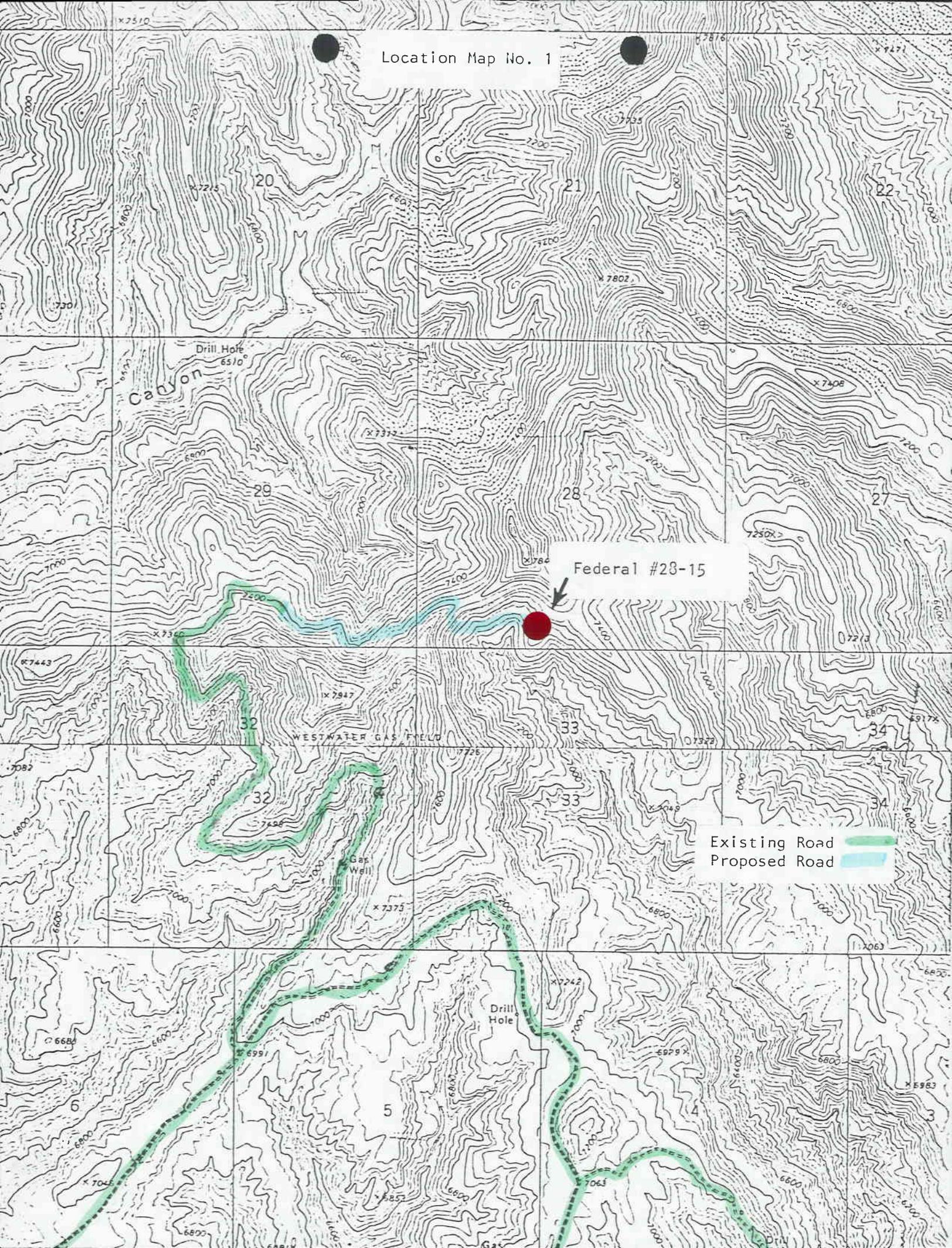
Powers Elevation Company, Inc. of Denver, Colorado
 has in accordance with a request from JIM ROUNTSON
 for PALMER OIL AND GAS COMPANY
 determined the location of #28-15 FEDERAL
 to be 325' FS & 2175' FW Section 28 Township 16 S.
 Range 24 E. OF THE SALT LAKE Meridian
 GRAND County, UTAH

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 #28-15 FEDERAL

Date: 7-13-79

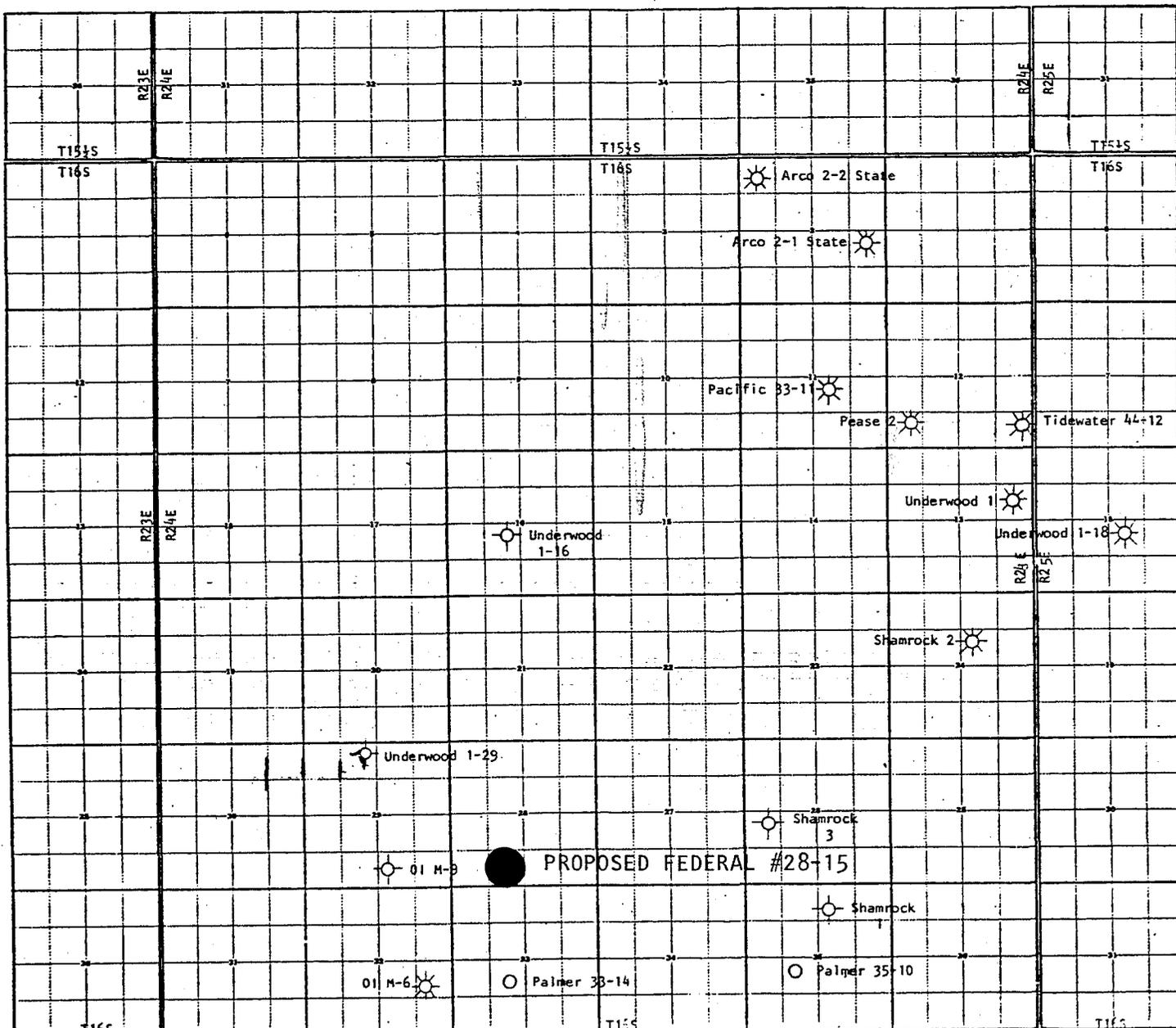
T. Nelson
 Licensed Land Surveyor No. 2711
 State of UTAH

Location Map No. 1

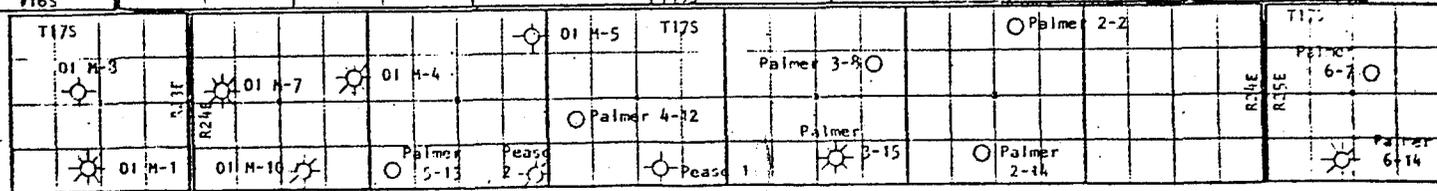


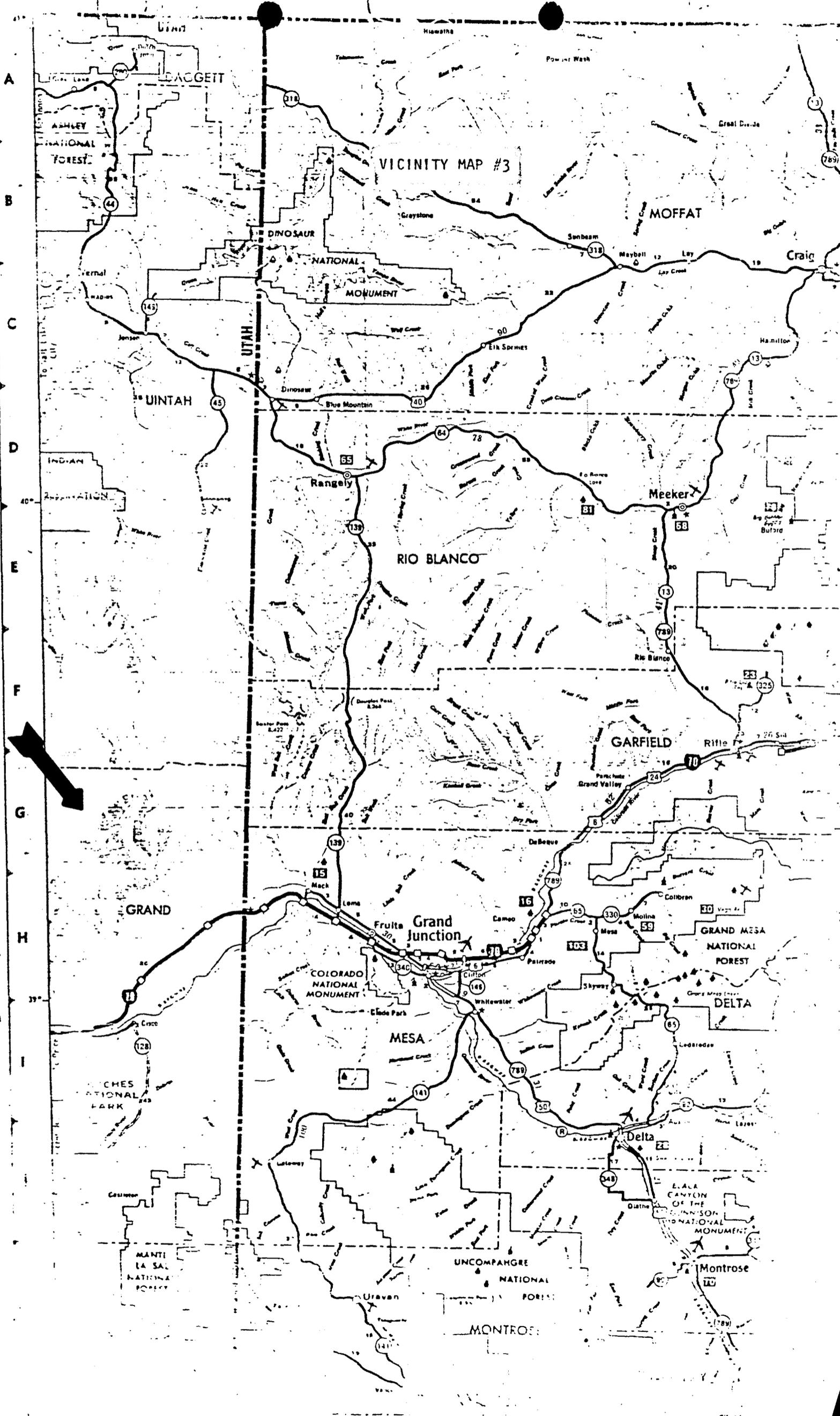
WELL MAP NO. 2

Township 16 South, Range 24 East, County Grand, State Utah



PROPOSED FEDERAL #28-15





WELL CONTROL PLAN

1. Surface Casing 9-5/8" O.D. 36#/ft., Grade K-55, Short T&C, set at 120' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 9-5/8" x 10" top 2000 psig W.P. Larkin (or equivalent) casinghead with two 2" 1500 psi L.P. outlets.
3. Intermediate Casing: 7" O.D. 20#/ft., Grade K-55, Short T&C, set at 3200', cemented with pump and plug method using 150 sacks or more. At least 12 hours WOC time will be required before drilling the plug.
4. Blowout Preventor: A 10" 3000 psig W.P. Double gate hydraulic Shaffer BOP (or equivalent) with drill; pipe rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi W.P.
5. Auxiliary Equipment: (a) Kelly cock will be run at top of Kelly at all times, (b) Float at bit will be run at all times, (c) No monitoring equipment for mud due to air drilling. Visual monitoring of air returns will be maintained, (d) Stabbing valve will be on rig floor at all times.
6. Anticipated bottom hole pressure is less than 1200 psi at 7200 or a gradient of .169 psi/ft. or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.

PALMER OIL & GAS COMPANY

Robert D. Ballantyne
Robert D. Ballantyne
Drilling Superintendent

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Utah
SERIAL NO.: U-10152-A

and hereby designates PALMER OIL & GAS COMPANY
P. O. Box 2564
NAME: Billings, Montana 59103
ADDRESS:

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Insofar as lease covers:

Township 16 South, Range 24 East

Section 27: All
Section 28: All

Grand County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

GRACE PETROLEUM CORPORATION

By: 

(Signature of lessee)

R. L. McHenry, Assistant Vice-President
Three Park Central, Suite 200
1515 Arapahoe Street

Denver, Colorado (Address)
30202

June 12, 1979

(Date)

THIRTEEN POINT PLAN OF DEVELOPMENT
FOR SURFACE USE FOR PALMER OIL FEDERAL #28-15
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 28-T16S-R24E
Grand County, Utah

1. Existing Roads

- A. Proposed wellsite: Survey plat enclosed.
- B. Location is approximately 10 miles North of Highway 6 & 50 on the East Canyon Road and 8 miles up an existing lease road in the Bryson Canyon Field.
- C. Access roads: See Location Map #1.
- D. Not applicable, well is not exploratory.
- E. Existing roads within 1 mile of wellsite: See Location Map #1.
- F. No improvements of existing roads are planned.

2. Planned Access Roads

- A. The access will be a continuation of existing road from a well drilled in Section 29 with new access of $\frac{3}{4}$ mile east of the well in Section 29.

3. Location of Existing Wells (See Map No. 2)

1. There are no existing water wells within a 1 mile radius.
2. See Map #2 for location of abandoned wells.
3. No temporary abandoned wells are located within a 1 mile radius.
4. No disposal wells in the area.
5. No drilling wells in the area, locations shown on Map No. 2, well planned in Section 29, Federal #29-15.
6. Producing wells shown on Map No. 2.
7. Shut-in wells shown on Map No. 2.
8. No injection wells in the area.
9. No monitoring or observation wells in the area.

4. Location of Existing and Proposed Production Facilities

- A.
 1. No tank batteries within a 1 mile radius.
 2. Production facilities within a 1 mile radius include separators and meter runs at the gas wells shown on Map No. 2.
 3. No oil gathering lines in the area.
 4. A field gathering system generally follows the roads shown on Map No. 1. The closest major pipeline is the Mesa Pipeline in East Canyon.
 5. No injection lines in the area.
 6. No disposal lines in the area.
- B.
 1. The gathering system has not yet been designed.
 2. A separator, approximately 5' x 10', and a meter run, approximately 6' x 8', will be on the drillsite pad, and will be painted to blend with the desert environment.
 3. No construction materials are necessary. All lines will be coated, wrapped, and buried.
 4. A 10' x 10' water disposal pit will be dug within 50' of the separator and will be enclosed by a wire fence. A 6' x 6' x $3\frac{1}{2}$ ' metal guard will be placed around the wellhead.
- C. Plans for restoration of the surface.
On completion of the drilling of this well, all pits will be backfilled and top-soil replaced and re-contoured back to the original terrain. Upon abandonment all disturbed area, including the location and access road, will be re-contoured, ripped or scarified as needed, and re-vegetated using a seed formula as specified by the BLM. All seeding will be done between September 15 and November 15.

5. Location and Type of Water Supply

- A. Very little water is needed to drill this well because it will be air drilled. Water will be hauled from a water hole in the Westwater drainage. If this is dry, it will be hauled from West Salt Creek drain ditch near Mack, Colorado.
- B. Water will be transported by truck. The truck will use the access road.
- C. No water well is to be drilled.

6. Source of Construction Materials

- A. No construction materials are to be used.

THIRTEEN POINT PLAN OF DEVELOPMENT (Con't)

7. Methods for handling waste disposal

1. Cuttings will be buried 3' under top soil.
2. Drilling fluids (if any) will be left in open pit to evaporate. Pit will be fenced on 4 sides during drilling and completion operations.
3. Produced oil or condensate (if any) will be stored in a tank and sold. Produced water will be disposed of in compliance with rules and regulations of the USGS and the State of Utah.
4. Portable chemical toilet will be provided.
5. Trash will be burned in burn pit. The burn pit will be fenced with expanded metal. Non-combustible trash will be buried at least 4' deep in the reserve pit.
6. Drilling fluid in pit, which will be very minimal due to air drilling, will be left to dry, if necessary. After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil to be placed on top of any remaining fluid and cuttings; then top-soil will be used to cover both pit and location area. The area will be policed for all trash when the well is completed and the location will be left as much like the natural environment as possible.

8. Ancillary Facilities

No camps or airstrips proposed.

9. Wellsite Layout

1. See Plat No. 2 showing location pad. All necessary cuts and fills are shown on this plat; and three cross sections are shown on the bottom of the plat.
2. Location of pits, etc.: See plan of drillsite layout diagram, Plat #2-A.
3. Rig orientation: See plan of drillsite layout diagram, Plat #2-A.
4. Pits will be unlined.

10. Plans for Restoration of Surface

1. Backfilling, leveling, etc.: See 7-1 and 4-C.
2. Rehabilitation, etc.: See 4-C.
3. Fencing of pits: Pit will be fenced on all sides during drilling and completion operations.
4. Oil on pits: Occurance is improbable. If it does occur, the pits will be flagged to prevent an influx of wild fowl. Any oil which does occur will be trucked off for disposal.
5. Rehabilitation timetable: See 4-C. Contouring will be done as soon as the pits are dry. Barring any unforeseen problems, rehabilitation should be completed within 90 days of completing the well.

11. Other Information

1. Topography: Immediate wellsite is in the Book Cliffs. The Book Cliffs and deep canyons surround the location.
Soil: Eroded Mesaverde and Blow Sand.
Vegetation: Sparse grassland with greasewood, sagebrush, junipers, and Pinion Pine. Land is used for grazing.
Fauna: Occasional use by deer, antelope, rabbits, lizards, hawks, and miscellaneous small birds.
Geologic features: Nothing significant in immediate area.
2. A. Surface Ownership: Public lands administered by the BLM.
B. Surface Activities: Rabbit and bird hunting, sheep and cattle grazing, and gas well maintenance.
3. No water or dwellings are on the lease. An archaeological study will be done by Powers Elevation Company of Eagle, Colorado.

THIRTEEN POINT PLAN OF DEVELOPMENT (Con't)

12. Lessee's or Operator's Representative

R. D. Ballantyne
P. O. Box 2564
Billings, Montana 59103

Office Phone (406) 248-3151
Home Phone (406) 656-1304
Mobile Phone (406) 245-3660 Unit #327

J. G. Routson
P. O. Box 2564
Billings, Montana 59103

Office Phone (406) 248-3151
Home Phone (406) 245-8797
Mobile Phone (406) 245-3660 Unit #327

William H. Buniger
P. O. Box 42
Loma, Colorado 81524

Home Phone (303) 858-7377
Mobile Phone (303) 245-3660 Unit #289

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

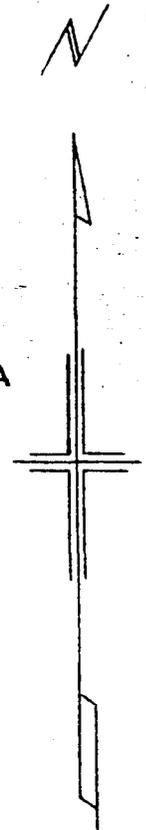
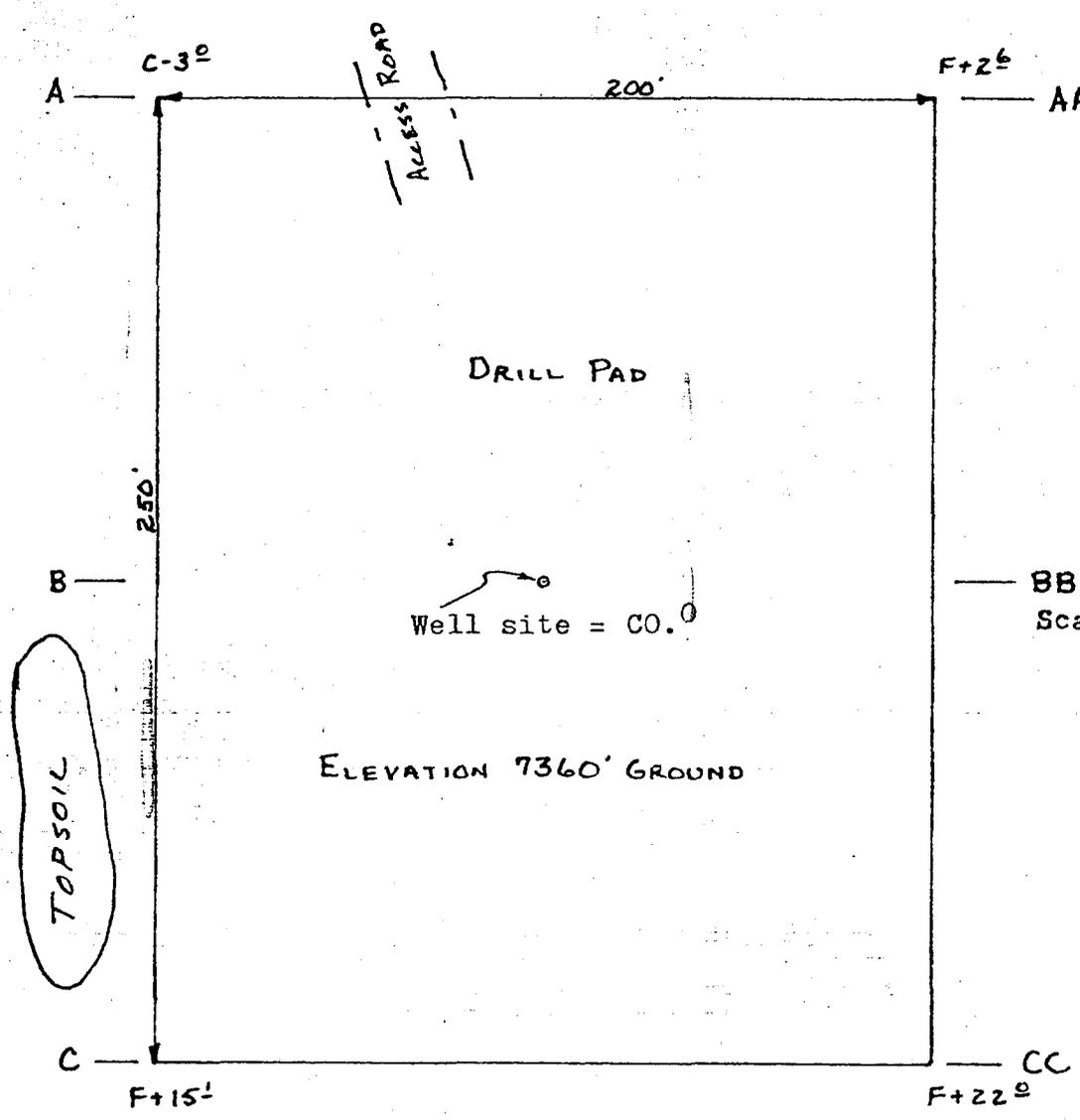
Date: Aug 10, 1979

Robert D Ballantyne
Robert D. Ballantyne
Drilling Superintendent

TOPOGRAPHIC MAP

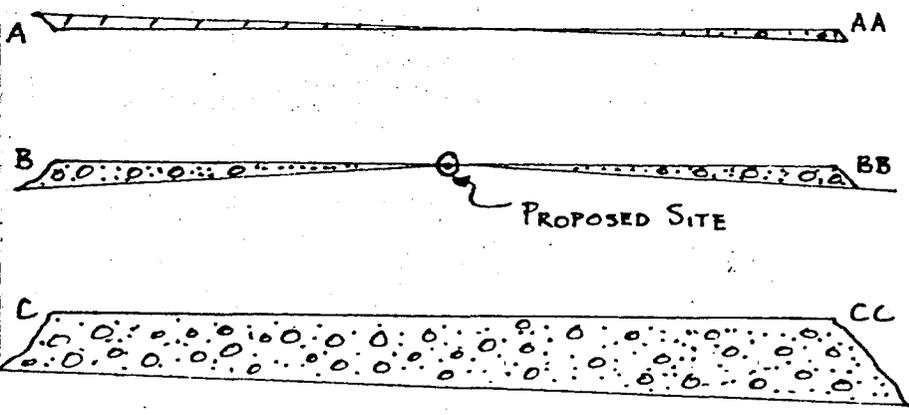
PALMER OIL & GAS Co.
28-15 FEDERAL
325' PS & 2175' FW SEC. 28 T16S R24E
GRAND COUNTY UTAH
200' N
C-16^B

PLAT NO. 2

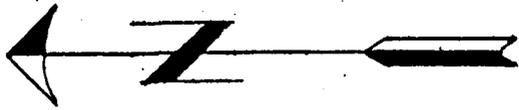


Scale: 1" = 50'

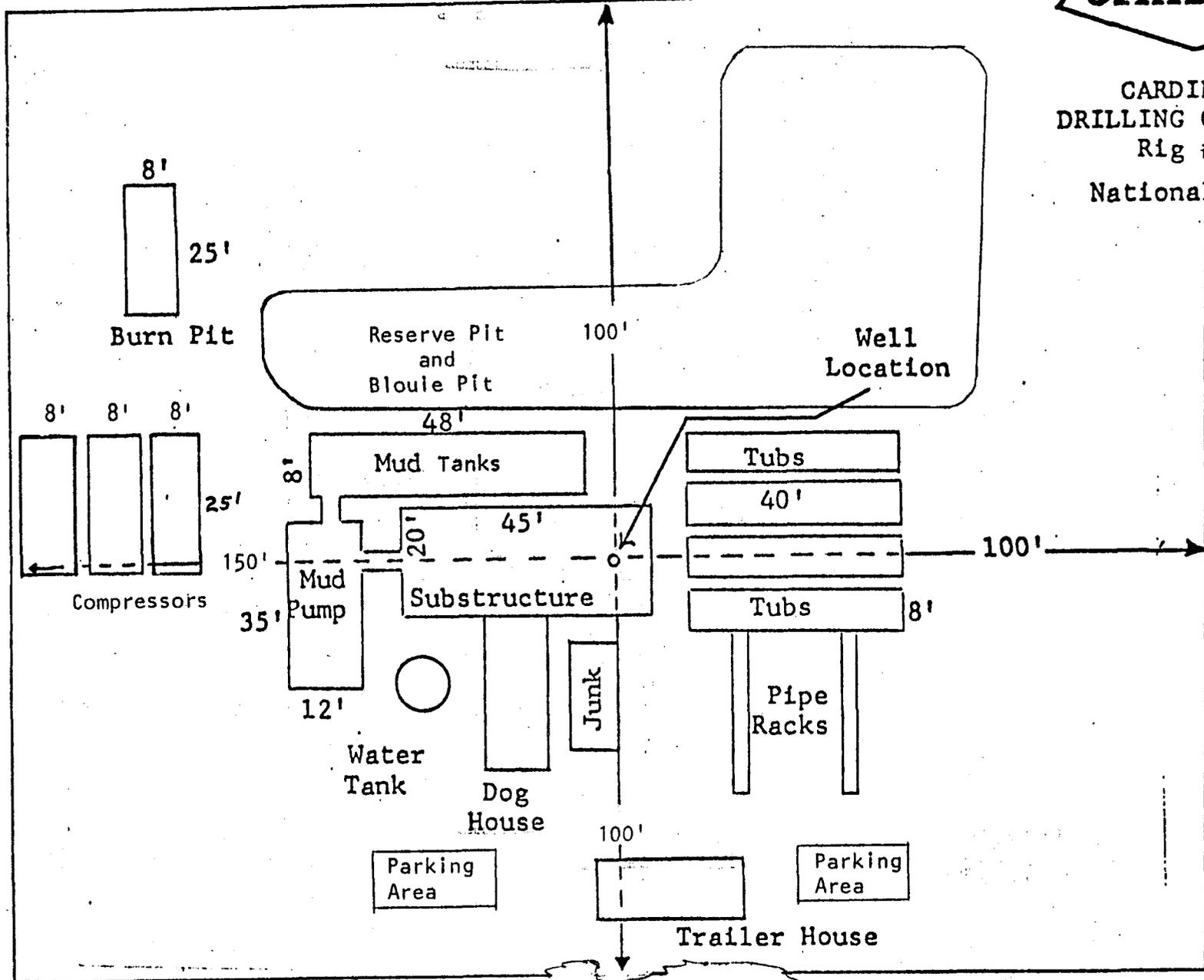
CROSS SECTIONS
1" = 50'



by: Richard O. Schmitz
Powers Elevation Company, Inc.
6-13-79



CARDINAL
DRILLING COMPANY
Rig #4
National T-32

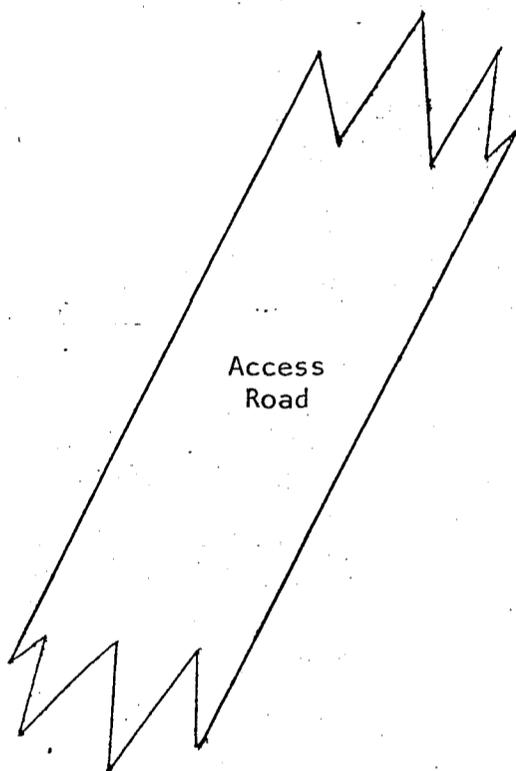
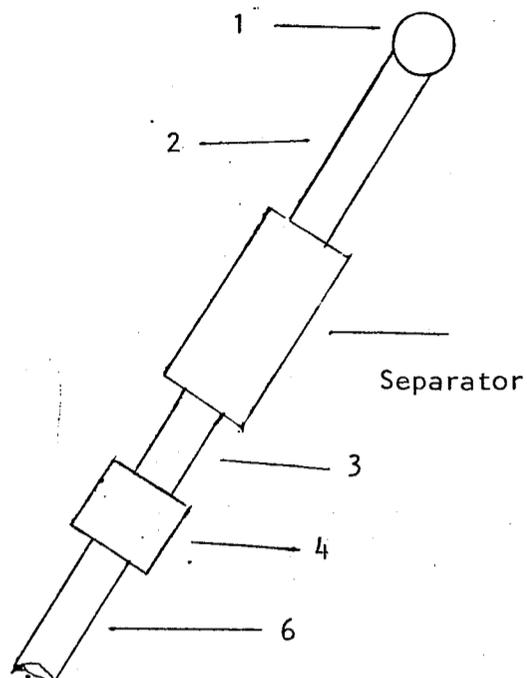
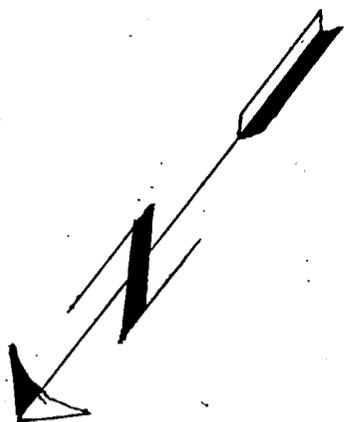


PLAN OF DRILLSITE LAYOUT

PLAT NO. 2-A

PLAT #3

Federal #28-15
Wellhead

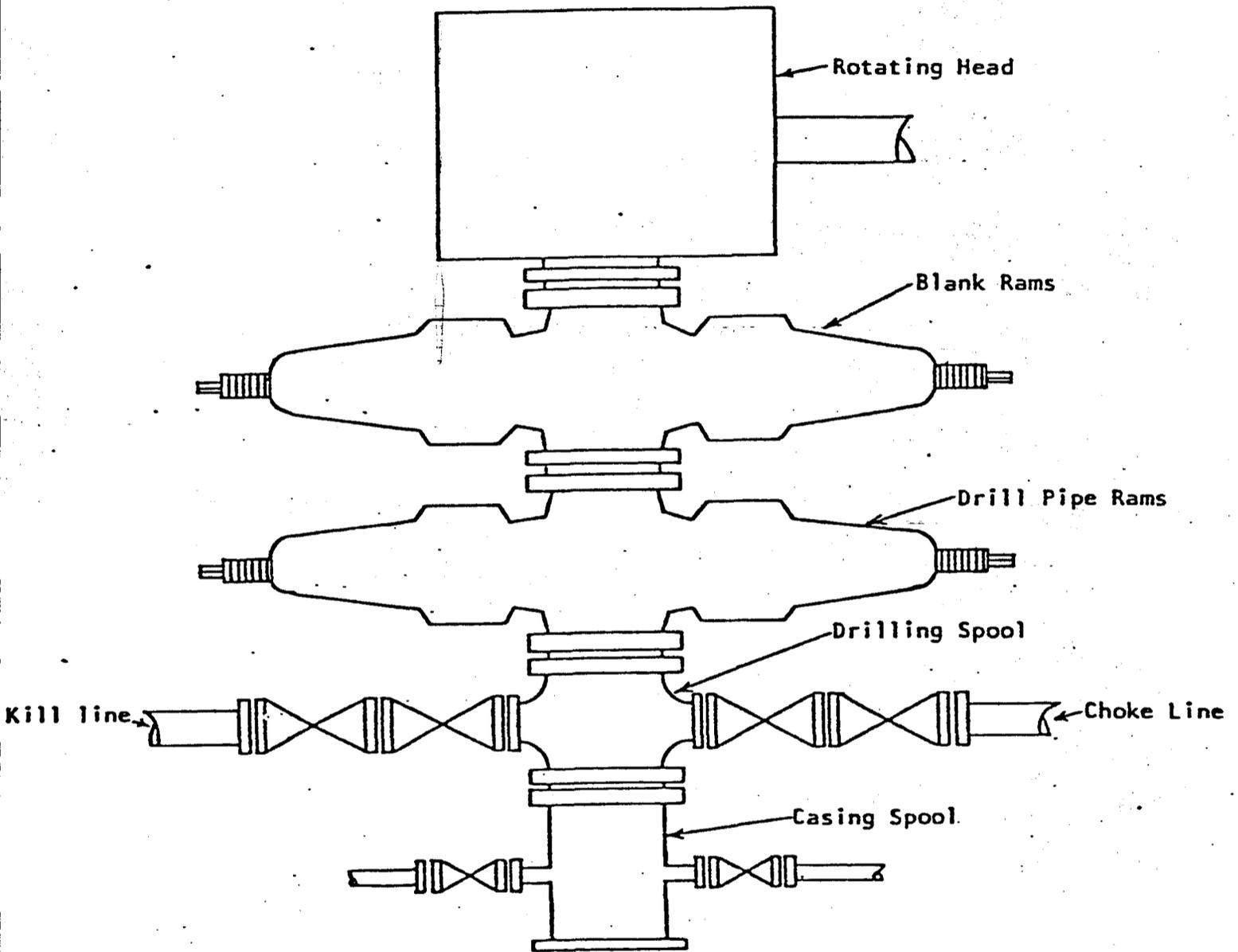


1. Wellhead will be 4-1/2" x 2-3/8" flange x screw with donut hanger full opening valve. All 2000# WP or greater to meet PO&GC specifications.
2. Line between wellhead and separator will be approx. 75 feet in length and constructed of 2-3/8" .218 wall seamless, welded, wrapped and buried approx. 5 feet deep.
3. Line between separator and meter will be 4" or 4.028 OD seamless, welded, coated, wrapped and buried and will be approx. 25 feet in length.
4. Meter run will be American 4" run, 500 psi static rating, 100' of water differential rating.
5. Pit, if necessary will be 10' x 10', enclosed by dikes and fenced.
6. Gathering system has not yet been designed.

AIR DRILLED WELLS
using

900 series well head equipment

Interval from 120 to TD



THIRTEEN POINT PLAN OF DEVELOPMENT
FOR SURFACE USE FOR PALMER OIL FEDERAL #28-15
SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 28-T16S-R24E
Grand County, Utah

1. Existing Roads

- A. Proposed wellsite: Survey plat enclosed.
- B. Location is approximately 10 miles North of Highway 6 & 50 on the East Canyon Road and 8 miles up an existing lease road in the Bryson Canyon Field.
- C. Access roads: See Location Map #1.
- D. Not applicable, well is not exploratory.
- E. Existing roads within 1 mile of wellsite: See Location Map #1.
- F. No improvements of existing roads are planned.

2. Planned Access Roads

- A. The access will be a continuation of existing road from a well drilled in Section 29 with new access of $\frac{3}{4}$ mile east of the well in Section 29.

3. Location of Existing Wells (See Map No. 2)

- 1. There are no existing water wells within a 1 mile radius.
- 2. See Map #2 for location of abandoned wells.
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- 4. No disposal wells in the area.
- 5. No drilling wells in the area, locations shown on Map No. 2, well planned in Section 29, Federal #29-15.
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- 7. Shut-in wells shown on Map No. 2.
- 8. No injection wells in the area.
- 9. No monitoring or observation wells in the area.

4. Location of Existing and Proposed Production Facilities

- A.
 - 1. No tank batteries within a 1 mile radius.
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 - 3. No construction materials are necessary. All lines will be coated, wrapped, and buried.
 - 4. A 10' x 10' water disposal pit will be dug within 50' of the separator and will be enclosed by a wire fence. A 6' x 6' x $3\frac{1}{2}$ ' metal guard will be placed around the wellhead.
- C. Plans for restoration of the surface.
On completion of the drilling of this well, all pits will be backfilled and top-soil replaced and re-contoured back to the original terrain. Upon abandonment all disturbed area, including the location and access road, will be re-contoured, ripped or scarified as needed, and re-vegetated using a seed formula as specified by the BLM. All seeding will be done between September 15 and November 15.

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THIRTEEN POINT PLAN OF DEVELOPMENT (Con't)

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8. Ancillary Facilities

No camps or airstrips proposed.

9. Wellsite Layout

1. See Plat No. 2 showing location pad. All necessary cuts and fills are shown on this plat, and three cross sections are shown on the bottom of the plat.
2. Location of pits, etc.: See plan of drillsite layout diagram, Plat #2-A.
3. Rig orientation: See plan of drillsite layout diagram, Plat #2-A.
4. Pits will be unlined.

10. Plans for Restoration of Surface

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11. Other Information

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Vegetation: Sparse grassland with greasewood, sagebrush, junipers, and Pinion Pine. Land is used for grazing.
Fauna: Occasional use by deer, antelope, rabbits, lizards, hawks, and miscellaneous small birds.
Geologic features: Nothing significant in immediate area.
2. A. Surface Ownership: Public lands administered by the BLM.
B. Surface Activities: Rabbit and bird hunting, sheep and cattle grazing, and gas well maintenance.
3. No water or dwellings are on the lease. An archaeological study will be done by Powers Elevation Company of Eagle, Colorado.

THIRTEEN POINT PLAN OF DEVELOPMENT (Con't)

12. Lessee's or Operator's Representative

R. D. Ballantyne
P. O. Box 2564
Billings, Montana 59103

Office Phone (406) 248-3151
Home Phone (406) 656-1304
Mobile Phone (406) 245-3660 Unit #327

J. G. Routson
P. O. Box 2564
Billings, Montana 59103

Office Phone (406) 248-3151
Home Phone (406) 245-8797
Mobile Phone (406) 245-3660 Unit #327

William H. Buniger
P. O. Box 42
Loma, Colorado 81524

Home Phone (303) 858-7377
Mobile Phone (303) 245-3660 Unit #289

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

Date: Aug 10, 1979

Robert D Ballantyne
Robert D. Ballantyne
Drilling Superintendent

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: August 15, 1979

Operator: Palmer Oil & Gas Co.

Well No: Federal 28-15

Location: Sec. 28 T. 16S R. 24E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-0A-30545

CHECKED BY:

Administrative Assistant: _____

Remarks:

Petroleum Engineer: CSA OK, BOP OK Amad

Remarks:

Director: _____

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 165-4 6/26/79

Surface Casing Change
to _____

#3

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

O.K. Rule C-3

O.K. In _____ Unit

Other:

*See
plotted*

Letter Written/Approved
ltm

September 19, 1979

Palmer Oil and Gas Company
PO Box 2564
Billings, Montana 59103

Re: Well No. Federal 28-15
Sec. 28, T. 16S, R. 24E.,
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 165-4 dated June 26, 1979.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify one of the following:

MICHAEL T. MINDER
Geological Engineer
Office: 533-5771
Home: 876-3001

FRANK M. HAMNER
Chief Petroleum Engineer
Office: 533-5771
Home: 531-7827

Enclosed please find form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30545.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

/b:tm

cc: USGS

Tenneco Oil
A Tenneco Company

Penthouse
720 South Colorado Blvd.
Denver, Colorado 80222
(303) 758-7130



Kathy 7

October 23, 1979



Mr. Cleon B. Feight
Utah Division of Oil, Gas & Mining
1588 West, North Temple
Salt Lake City, Utah 84111

RE: Tenneco Well formerly operated
by Palmer Oil and Gas Company
Grand County, Utah

Gentlemen:

The following wells formerly operated by Palmer Oil and Gas Company will now be operated by Tenneco Oil Company. Please note that record title to several of these wells will be held by Energy Increments, Inc., and Pate Oil Company, however, Tenneco Oil Company will continue to operate the wells.

Grand County, Utah

Township 16 South, Range 24 East

Sec. 33: 33-14/~~Section 28: Federal 28-15~~
Sec. 35: 35-10/ Section 28: Federal 28-15

Township 16 South, Range 25 East

Section 13: Federal 13-9-SIGW
Section 17: Federal 17-9-SIGW
Section 14: Federal 14-2

Township 16 South, Range 26 East

Section 32: State 32-1-SIGW
State 32-11-SIGW
Section 33: Federal 33-13-SIGW
Section 16: State 16-4

Township 17 South, Range 24 East

-SIGW-Section 3: Federal 3-8/Section 5: Federal 5-13
SIGW-Federal 3-15/Section 14: Federal 14-4

Section 4: Federal 4-12

Township 17 South, Range 25 East

Section 6: Federal 6-7
Federal 6-14-SIGW
Section 7: Federal 7-4-SIGW
Section 29: Federal 29-1

Township 17 South, Range 26 East

Section 5: Federal 5-4-SIGW
Federal 5-9-SIGW
Section 8: Federal 8-5-SIGW

***SIGW=SHUT IN GAS WELL
REMAINING ARE DRILLING WELLS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

DUPLICATE COPY
(Other instructions on reverse side)

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
 Tenneco Oil Company

3. ADDRESS OF OPERATOR
 720 S. Colorado Blvd., Denver, CO 80222

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 325' FSL, 2175' FWL
 At proposed prod. zone
 Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 40 miles NW of Mack, CO

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 325'

16. NO. OF ACRES IN LEASE 1280'

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH 7200' Morrison

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7360' G.L., 7371' K.B.

22. APPROX. DATE WORK WILL START* October 1, 1979

5. LEASE DESIGNATION AND SERIAL NO.
 USA U-10152A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federa

9. WELL NO.
 28-15

10. FIELD AND POOL, OR WILDCAT
 Westwater

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 28-T16S-R24E

12. COUNTY OR PARISH **13. STATE**
 Grand Utah

PROPOSED CASING AND CEMENTING PROGRAM

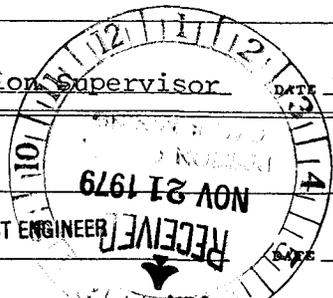
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" new	K-55 36#	120'	150 sacks
8 3/4"	7" new	K-55 20#	3200'	150 sacks
6 1/2"	4 1/2" new	K-55 10.5# & 11.6#	7200'	225 sacks

- Surface formation is the Mesaverd.
- Anticipated geologic markers are: Castlegate-3201, Frontier-6291, Dakota-6471, Morrison-6
- Gas is anticipated in the Dakota and Morrison. No water, oil, or other minerals are anticipated.
- Proposed casing program: See item #23 above.
- Pressure control equipment: See attached well control plan & schematic of drilling contract BOP stack. BOP's will be tested before drilling out from under surface casing and will be checked daily.
- Air or mist drilling will be used to drill the surface hole unless water is encountered. If water is encountered approximately 300 bbls. of gel type mud will be used. The well will be air drilled from under surface casing to T.D.
- Auxiliary Equipment: See well control plan.
- The logging program will consist of an IES log from TD to the base of intermediate casing, and GR-FDC-SNP or CNL logs from TD to above the Frontier. No cores or DST's are planned.

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 J. D. Traywick TITLE Administration Supervisor DATE November 9, 1979
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE NOV 21 1979
 APPROVED BY WT Mantey TITLE ACTING DISTRICT ENGINEER DATE NOV 13 1979
 CONDITIONS OF APPROVAL, IF ANY:



NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY
 NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED SUBJECT TO RENTALY (NLE-4)

*See Instructions On Reverse Side

ut 04 B

FROM : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, UEG, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-10152A

OPERATOR: Palmer Oil + Gas

WELL NO. 28-15

LOCATION: SE 1/4 SE 1/4 SW 1/4 sec. 28, T. 16S, R. 24E, 6pm

Grand County, Utah

1. Stratigraphy: *Sur face - mesaverde*
2750 - *Buck Tongue*
3020 - *Castle Gate*
3130 - *manos*
6470 - *Dakota/cedar Mtn*
6660 - *Morrison*

2. Fresh Water:
possible usable water to 2500 feet in Mesaverde

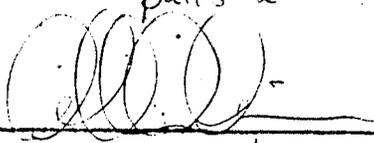
3. Leasable Minerals:
coal in Mesaverde not commercial

4. Additional Logs Needed:
adequate

5. Potential Geologic Hazards:
none expected

6. References and Remarks:

Bull 852

Signature: 

Date: 8-31-79

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Lease No.: U-10152A

Operator: Tenneco Oil Company

Well No.: 28-15

Location: 325' FSL & 2175' FWL

Sec.: 28

T.: 16S R.: 24E

County: Grand

State: Utah

Field: Westwater

Status: Surface Ownership: Public

Minerals: Federal

Joint Field Inspection Date: October 17, 1979

Participants and Organizations:

George Diwachak

USGS Salt Lake City, Utah

Elmer Duncan

BLM Moab, Utah

Bill Bunniger

Contractor

Lee Freeman

Tenneco

Dennis Shellhorn

Armstrong Engineering



Related environmental Analyses and References:

- 1. Unit Resource Analysis Book Mountain Planning Unit, BLM, Moab, Utah.

Analysis Prepared by: George Diwachak
Environmental Scientist
Salt Lake City, Utah

Date: 10/22/79

*Access to site used
paid 150 x 250
1-mile x 250 new access
Flow line not in
2000 ft. sec
10/21/79
211-9*

Proposed Action:

On August 15, 1979, Tenneco Oil Company filed an Application for Permit to Drill the No. 28-15 development well, an 7200 foot gas test of the Morrision Formation, located at an elevation of 7360 ft. in the SE/4 SW/4 Section 28-T16S-R24E on Federal mineral lands and Public surface, lease No. U-10152A. An objection was raised to the wellsite and access road, however due to the rugged terrain, no suitable alteratives are available. The access road was adjusted slightly to allow better access to the pad and keep grades to a minimum. See attached map for adjustments.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the Bureau of Land Management the controlling surface agency. Rehabilitation plans would be decided upon as well neared completion, the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 150 ft. wide by 250 ft. long and a reserve/blooeey pit 18 ft. by 150 ft. At least half of the reserve pit depth should be below existing ground surface. It may be necessary to bench the pit below the rig since the pit area is in fill material. A new access road would be constructed 20 ft. wide by 1 mile long from a maintained road. Access would traverse a steepsided rocky canyon, crossing a ridge in SW/4 SW/4 Section 28 and again traversing a rocky canyon. Several rocky rims would be crossed by access construction.

The operator proposes to construct production facilities on the disturbed area of the proposed drill pad. If production is established plans for a gas flow line would be submitted to the appropriate agencies for approval.

The anticipated starting date is upon approval and the duration of drilling activities would be about 15 days.

Location and Natural Setting:

The proposed drillsite is approximately 40 miles northwest of Mack, Colorado the nearest town. A poor road runs to within 1 mile of the location. This well is in the Westwater field.

Topography:

Regional topography is mountainous within the rugged Book Cliffs. The proposed location is situated on a bench of minimal size to support a drilling rig and facilities. The bench slopes to the south and east at 5 to 10% and ends abruptly at a steep sandstone rim. Steep sandstone cliffs surround the uphill (northwest and north) edges of the ridge. Numerous side drainages dissect the bench. The location was shortened in width by 50 ft. at the operator's suggestion to remove the east edge of the pad from the rim of the bench. The SW & SE corners of the pad should be rounded to also remove them from the edge of the rim. The reserve pit should be constructed by benching in below the rig platform to insure that half of its depth would be below the existing ground surface. This would also provide adequate fill material for leveling the rig platform and support facilities area. The access road would traverse steep-sided canyons, and construction would release topsoil, vegetation and rock downslope.

Geology:

The surface geology is the Mesaverde Formation.

The soil is sandy clay with sandstone and shale gravels.

No geologic hazards are known near the drillsite.

Seismic risk for the area is moderate. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The well would be air drilled to T. D. unless water is encountered while drilling the surface hole. If so, approximately 300 barrels of gel tape mud would be used. Due to the nature of the planned circulating medium, the potential for loss of circulation would be minimal. The bleed line should be at least 125 ft. long and misted to suppress dust.

A geologic review of the proposed action has been furnished by the Area Geologist, U. S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey Engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a sandy clay to a clay soil and are sparse. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support a mixed mountain shrub, pinyon-juniper association.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access road per the recommendations of the Bureau of Land Management.

Approximately 5 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rainfall should range from about 8" to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from southwest to northeast. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The location area drains southeast by non-perennial drainages to East Canyon which flows to Westwater Creek, a tributary of the Colorado River. Portions of the access road would drain south westerly, eventually reaching Westwater Creek. Numerous side drainages cross through the location. A trench at least 18 inches deep should be constructed on the uphill side of the location to divert any runoff around the drilling pad. The reserve pits should be compacted to insure fluid retention. If bedrock is encountered during construction of the pits, they should be lined with an impervious material to insure stability.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks and spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined unless bedrock is encountered during construction. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Pinyon, juniper, Douglas fir, scrub oak, mountain mahogany, bitterbrush, serviceberry catcti and grasses vegetate the pad and road areas.

Plants in the area are of a mixed mountain shrub - **PINYON-JUNIPER ASSOCIATION**

Proposed action would remove about 5 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

The operator plans to use a foam fracturing treatment upon completion of drilling. Past foam fracturing by Tenneco has resulted in occasional burning of vegetation due to the working pressures involved. The operator should be prepared to rehabilitate any vegetation destroyed by fracturing treatments.

Wildlife:

The fauna of the area consists predominately of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance has been performed. Appropriate clearances must however, be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations, activity would cease until the extent, the scientific importance, and the method of mitigation the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is limited recreation, and oil and gas activities.

Noise from the drilling operations may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the immediate area but should not present a major intrusion.

The economic effect of one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Grand County, Utah.

But should this well discover a significant new hydrocarbon source, local, state and possibly national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

A camp would be set up for construction of the road and pad because of the remoteness of the area.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserve pits would contain all fluids used during the drilling operations. A trash cage or bin would be utilized for any solid wastes generated at the site and would be hauled and removed at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

1). Not approving the proposed permit -- the oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits.

Under leasing provisions the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2). Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would reduce the environmental impact. There are no severe vegetation, animal or archaeological-historical-cultural conflicts at the site. Since only an impact on the environment would be expected, the alternative of adjusting the location is recommended. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Mitigative Measures and Stipulations:

3). Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

1. The location would be constructed 150 ft. wide by 250 ft. long in order to leave a 50 ft. buffer zone of undisturbed ground between the pad and the east rim of the bench.

2. The reserve/blooiie pit should be terraced below the rig platform to insure that at least one half of its depth is below the existing ground surface.

3. The reserve/blooiie pits should be adequately compacted to insure retention of fluids. If bedrock is encountered during pit construction, the pit should be lined with an impervious material for stability.

4. A trench at least 18 inches deep should be constructed on the uphill side of the location to divert any drainage around the pad.

5. The southwest and southeast corners of the pad should be rounded to provide a buffer zone of undisturbed ground between the pad and the edge of the bench.

6. The access road would be adjusted per the attached map as agreed upon at the onsite inspection to reduce grades and provide a letter descent over rock ledges to the location. The road would enter the location at the northwest corner of the pad.

7. The blooie line should be directed into the pit and misted with water to supress dust.
8. The operator should reclaim and rehabilitate any land and vegetation destroyed during fracturing treatments of the well.
9. A trash bin would be used for waste material. Burning would be allowed but all waste should be removed upon the completion of drilling.

Adverse Environmental Effects Which Cannot Be Avoided:

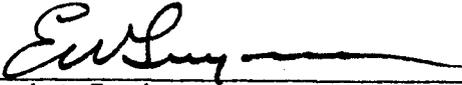
Surface disturbance and removal of vegetation from approximately 5 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emmissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associatd with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable committment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to Westwater Creek could exist through leaks and spills.

Determination:

This requested action ~~does~~ does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, 102 (2) (C).

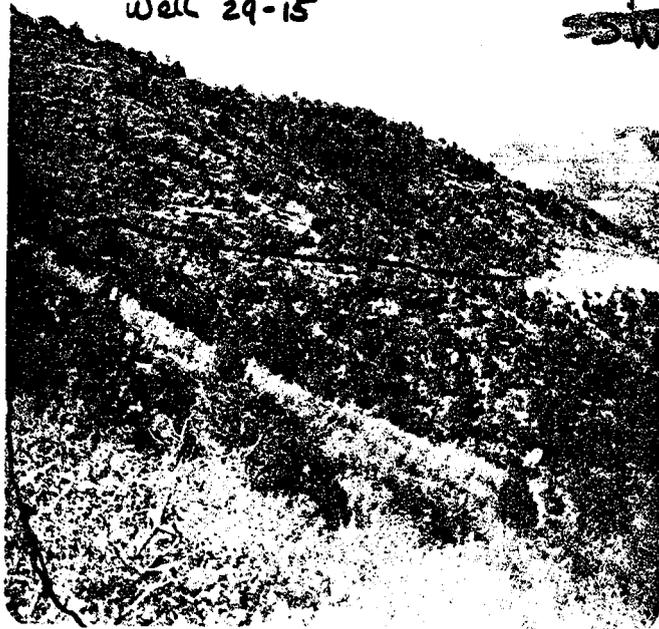
Date

10/29/79


District Engineer
U. S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

Access route from
Well 29-15

↑
SW

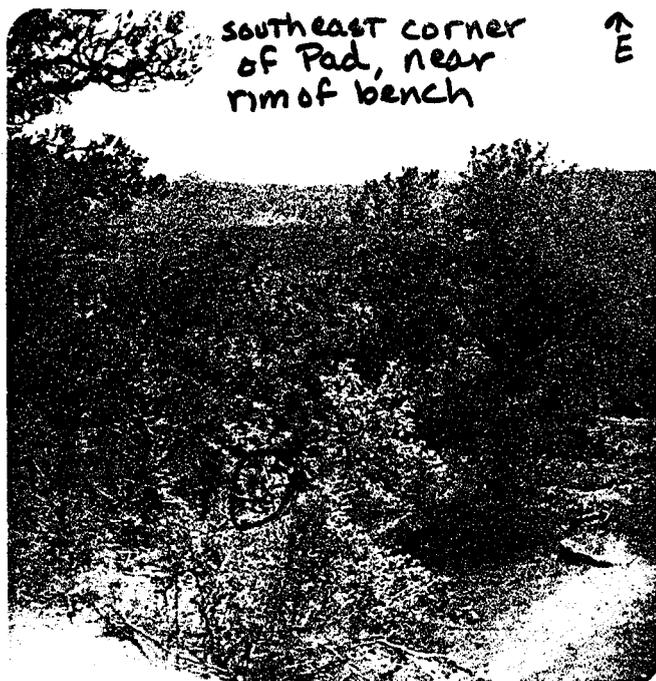
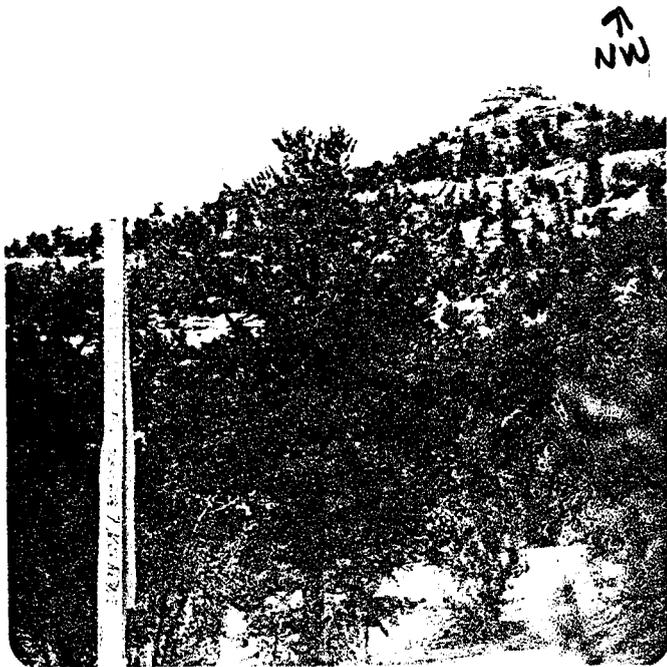


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SE



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SE





UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
720 S. Colorado Blvd., Denver, CO 80222

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 325'FSL, 2175'FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

5. LEASE
U-10152A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
28-15

10. FIELD OR WILDCAT NAME
Westwater

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28; T16S; R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7360'GL 7371'KB

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) Report of Operations	<input type="checkbox"/>		<input type="checkbox"/>

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

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

As requested by your office, listed below is a summary of operations and present conditions for the above captioned well.

- 1) Built access and location as per USGS & BLM requirements
- 2) MIRU a small rig
- 3) Spud 12/13/79
- 4) Set 40' 9 5/8" K-55 casing. Cmt is place. Cmt to surface
- 5) NU casg. head-installed wellhead.
- 6) RD. MORT 12/13/79.

Operations were suspended at this time per BLM requirements

Subsurface Safety Valve: Manu. and Type _____ Ft.

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

SIGNED Charles J. Statham TITLE Admin. Supervisor DATE 1/7/80

(This title for Federal or State office use)

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

RECEIVED
 JAN 14 1980
 DIVISION OF OIL & GAS
 MINING
 Set @ _____ Ft.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: Tenneco Oil Company

WELL NAME: Federal #28-15

SECTION 28 SE SW TOWNSHIP 16S RANGE 24E COUNTY Grand

DRILLING CONTRACTOR Apco

RIG # 5

SPUDED: DATE 7/8/80

TIME P.m.

HOW rotary

DRILLING WILL COMMENCE ASAP

REPORTED BY Don Pointderter

TELEPHONE # 303-758-7130

DATE July 8, 1980

SIGNED *M. J. M.*

cc: USGS

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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
720 So. Colorado Blvd., Denver, CO 80222

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 325' FSL 2175' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Casing Report</u>	

5. LEASE
USA U10152A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
28-15

10. FIELD OR WILDCAT NAME
Westwater

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28; T16S; R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7360' GL 7371' KB

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

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

8/1/80

Ran 166 jts. 4 1/2" K-55 10.5# 8rd csg. Set at 7201.59' Float collar at 7156.83'. Cmt. with 250 sx RFC 1-0 and 1/4# sx Cellofalke. Released rig 7/31/80. Tagged PBD @ 7105'.

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

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

SIGNED Carly Statten TITLE Asst. Div. Admin. Manager DATE 7/25/80

(This space for Federal or State office use)

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Tenneco Oil Company

3. ADDRESS OF OPERATOR
720 So. Colorado Blvd., Denver, CO 80222

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 325' FSL 2175' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input checked="" type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <input type="checkbox"/>	<input type="checkbox"/>

5. LEASE
USA 10152A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
28-15

10. FIELD OR WILDCAT NAME
Westwater

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28; T16S; R24E

12. COUNTY OR PARISH
Grand

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7360' GL 7371 KB

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

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

8/26/80

Perf'd 6541-6548' (2 jts) 14 holes. Set pkr. at 6448'. Breakdown perfs with 500 gals 7 1/2% MSR & 14 ball sealers. AIR: 3 BPM, AIP: 3000 PSI, ISIP: 1400 PSI, 15 min. SIP: 800 PSI. Foam frac'd Dakota with 75% quality foam with following volumes: 60 BBLS pad, 40 BBLS with 6,720 #20/40 sand, 40 bbls. w/10,080# 20/40 sand. AIR: 13 BPM, AIP: 3600 PSI, ISIP: 3600 PSI, 15 min SIP: 2600 PSI.

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

18. I hereby certify that the foregoing is true and correct
Asst. Div.
SIGNED _____ TITLE Admin. Manager DATE _____

(This space for Federal or State office use)

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

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

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R3555.

14

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. RESRV. Other DATE: OCT 6 1980

2. NAME OF OPERATOR: Tenneco Oil Company

3. ADDRESS OF OPERATOR: 720 South Colorado Blvd., Denver, Colorado, DIVISION OF OIL & GAS MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 325' FSL, 2175' FWL, SE SW
At top prod. interval reported below
At total depth

14. PERMIT NO. 43-019-30545 | DATE ISSUED 9-19-79

15. DATE SPUNDED 7/8/80 | 16. DATE T.D. REACHED 7/30/80 | 17. DATE COMPL. (Ready to prod.) 9/2/80 | 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7360' GL 7371' KB | 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7200' | 21. PLUG, BACK T.D., MD & TVD 7105' | 22. IF MULTIPLE COMPL., HOW MANY* → | 23. INTERVALS DRILLED BY → | ROTARY TOOLS 0' - TD | CABLE TOOLS --

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6541-6548' - Dakota | 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN GR/IND ND/Laterolog | 27. WAS WELL CORED 10

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
7"	23#	3003'	8 3/4"	500sx RFC-1 w/2% CACL2	
4 1/2"	10.5#	7201'	6 1/4"	1/4# sx Dewaflake 250 sx RFC 10-0 1/4# sx Celloflake	

29. LINER RECORD | 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
							6448'

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

INTERVAL	SIZE	NUMBER	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6541-6548	(2JSPF)	14 holes	6541-6548'	500 gals 7 1/2% MSR 75% Quality foam containing: 60 Bbls PAD, 40 Bbls w/6,720# 20/40sd. 40 Bbls w/10,080# 20/40

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
9/2/80	Flowing	Shut-in					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
9/2/80	2 hrs.	1/4" Orifice →	→		Q=76		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
40 PSI	200 PSI	→		912			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented | TEST WITNESSED BY

35. LIST OF ATTACHMENTS: Electric logs forwarded by Schlumberger

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED Charles H. Hatten TITLE Asst. Div. Adm. Mgr. DATE October 1, 1980

*(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.
		TOP	
		MEAS. DEPTH	TRUE VERT. DEPTH
Mancos B	3097	4091	Mesa Verde
Dakota	6540	6550	Mancos
	6578	6626	Frontier
Morrison	6799	6898	Dakota Silt
	6932	6944	Dakota
	6993	7012	Morrison

October 22, 1980

Tenneco Oil Company
720 South Colorado Boulevard
Denver, Colorado 80222

RE: Well No. Federal #28-15
Sec. 28, T. 16S, R. 24E.,
Grand County, Utah

Gentlemen:

According to our records, a "Well Completion Report" filed with this office October 1, 1980, from above referred to well indicates the following electric logs were run: GR/IND, ND/Laterolog. As of todays date this office has not received these logs.

Rule C-5, General Rules and Regulations and Rules of Practice and Procedure, requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

Your prompt attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

BARBARA HILL
CLERK TYPIST

/bjh

Tenneco Oil Company

A Tenneco Company

Western Rocky Mountain Division

P.O. Box 3249
Englewood, Colorado 80155
(303) 740-4800

Delivery Address:
6162 South Willow Drive
Englewood, Colorado



July 3, 1984

State of Utah
Natural Resources
Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84114

Attn: Mr. Norman C. Stout:

Dear Mr. Stout:

Per our conversation on June 26, I am enclosing a copy of the list of wells to be put into your computer system. In addition, the Wilson 33-2 which is presently set up in your system, was sold to Quinoco Petroleum Inc., effective March 1, 1984. This is the only well presently in the Tenneco Account Number N0950.

The following wells on the attached list were also sold to Quinoco Petroleum, Inc. effective March 1, 1984:

Federal 28-15
Federal 5-13
Tenneco USA 11-6

The following wells were P&A'd: see attached sundries:

Tenneco Bullpup 1-8
R.C. Federal 1-19

The following wells have never produced and are currently TA'd:

Federal 29-15
Diamond Canyon USA 15-5 (shows 15-7 on list)
Sulpher Canyon USA 1-15
Rattlesnake Canyon 2-12
Willow Creek East 29-13
Willow Creek East 30-5

We show no records concerning the TOC USA 15-11 ever being drilled.

RECEIVED

JUL 5 1984

DIVISION OF OIL
GAS & MINING

RECEIVED

State of Utah
July 3, 1984
Page 2

JUL 5 1984

DIVISION OF OIL
& GAS & MINING

The Upper Valley Unit shown by letter A should be one producing entity. The four wells shown by letters B, C, D and E will each need to be a separate producing entity.

The new turnaround reporting forms should be mailed to:

Tenneco Oil Company
P. O. Box 3249
Englewood, CO 80155

Attn: Ursula Sulzbach

Should you have any questions or need additional information, please call me at (303) 740-2585.

Respectfully,

TENNECO OIL COMPANY



Randy Wahl
Senior Revenue Analyst

RW/wt
Attachments

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

SEE INTRUDER ATTENTION
INSTRUCTIONS ON REVERSE SIDE

031710

96W

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. USA U-10152A
2. NAME OF OPERATOR Ominex Petroleum, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR Stanford Place 1, Suite 1060 8055 E. Tufts Ave. Pkwy., Denver, CO 80237		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 325' FSL 2175' FWL		8. FARM OR LEASE NAME Federal
14. PERMIT NO. 43-019-30545		9. WELL NO. 28-15
15. ELEVATIONS (Show whether OF, RT, GR, MA.) 7360' GL 7371' KB		10. FIELD AND POOL, OR WILDCAT Westwater
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA Sec. 28, T16S, R24E
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. COUNTY OR PARISH 13. STATE Grand Utah

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

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

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

Change of Operator from Quinoco Petroleum, Inc., P.O. Box 378111, Denver, CO 80237 to Ominex Petroleum, Inc. effective as of March 1, 1987.

RECEIVED
MAR 12 1987

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

SIGNED Mary Earle TITLE Production Analyst DATE 3-1-87

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING



5. Lease Designation and Serial Number:
U-10152

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement 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.

1. Type of Well: OIL GAS OTHER:

2. Name of Operator:
OMIMEX PETROLEUM, INC.

3. Address and Telephone Number: 8055 E. Tufts Avenue Parkway, #1060
Denver, CO 80237 (303) 771-1661

4. Location of Well
Footages: 325' FSL, 2175' FWL
QQ, Sec., T., R., M.: SESW Sec. 28-16S-24E

8. Well Name and Number:
Federal 28-15

9. API Well Number:
43-0193054500

10. Field and Pool, or Wildcat:
Westwater

County: Grand
State: Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ Approximate date work will start _____	<input type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other <u>Annual Status Report</u> Date of work completion <u>Shut in prior to 1990</u> <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off

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.)

Omimex has no future plans for this well.

RECEIVED
MAR 15 1993
DIVISION OF
OIL GAS & MINING

13. Name & Signature: B. J. Whitney *B.J. Whitney* Title: Production Analyst Date: 3/10/93

(This space for State use only)

STATE OF UTAH
 DIVISION OF OIL, GAS AND MINING

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.

5. Lease Designation and Serial Number:

UTU 10152A

6. If Indian, Allottee or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

Federal #28-15

9. API Well Number:

43-01930545

10. Field and Pool, or Wildcat:

Westwater Field

1. Type of Well: OIL GAS OTHER:

temporarily abandoned NOV 15 1993

2. Name of Operator:

Omimex Petroleum, Inc.

3. Address and Telephone Number:

8055 E. Tufts Ave. Pkway., #1060 - Denver, CO 80237 (303) 771-1661

4. Location of Well

Footages:

QQ, Sec., T., R., M.: 28-16S-24E

County: Grand

State: Utah

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

NOTICE OF INTENT

(Submit in Duplicate)

- | | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other _____ | |

Approximate date work will start _____

SUBSEQUENT REPORT

(Submit Original Form Only)

- | | |
|---|---|
| <input type="checkbox"/> Abandonment * | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> | |

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION 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.)

Effective November 1, 1993 operatorhsip transferred to:

North Star Resources, Inc. (corporate office)
 15000 NW Freeway
 Houston, TX 77040

2210 Highway 6N50 (operations office)
 Grand Junction, CO 81505
 (303) 245-5902

13.

Name & Signature:

B.J. Whitney
 B.J. Whitney

Title: Production Analyst

Date: 11/11/93

(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 reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

UTU10152A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

FEDERAL #28-15

9. API Well No.

43-01930545

10. Field and Pool, or Exploratory Area

BRYSON CANYON

11. County or Parish, State

GRAND COUNTY, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

NORTHSTAR GAS COMPANY INC.

3. Address and Telephone No.

820 GESSNER SUITE 1630 713-935-9542
HOUSTON TX 77024

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

28-16S-24E SSSW

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

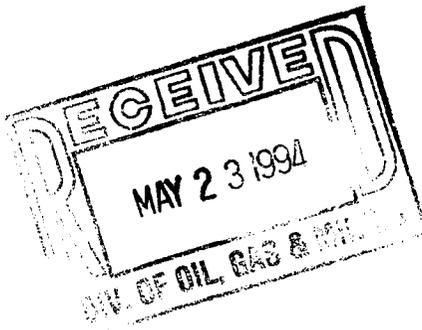
TYPE OF ACTION

Abandonment
 Recompletion
 Plugging Back
 Casing Repair
 Altering Casing
 Other **CHANGE OF OPERATOR**
 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.)*

EFFECTIVE 11-01-93 NORTHSTAR GAS CO. INC. WILL BECOME OPERATOR OF THE ABOVE WELL.



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

Signed PAUL BERNARD

Title SEC/TREAS Associate District Manager

Date 050494

(This space for Federal or State office use)

Approved by /s/ WILLIAM C. STRINGER

Title

Date MAY 15 1994

Conditions of approval, if any:

CONDITIONS OF APPROVAL ATTACHED

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.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:

UTU10152A

SUNDRY NOTICES AND REPORTS ON WELLS

6. If Indian, Allottee or Tribe Name:

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:

1. Type of Well: OIL GAS OTHER:

8. Well Name and Number:

FEDERAL #28-15

2. Name of Operator: NORTHSTAR GAS COMPANY, INC.

9. API Well Number:

43-01930545

3. Address and Telephone Number:
820 GESSNER, SUITE 1630, HOUSTON, TX 77024 713-935-9542

10. Field and Pool, or Wildcat:

BRYSON CANYON

4. Location of Well

Footages:

County: GRAND

OO, Sec., T., R., M.: 28-16S-24E

State: UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other _____
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start _____

SUBSEQUENT REPORT
(Submit Original Form Only)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other CHANGE OF OPERATOR
- New Construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Date of work completion _____

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION 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.)

EFFECTIVE NOVEMBER 1, 1993 OPERATORSHIP TRANSFERRED FROM:
OMIMEX PETROLEUM, INC.
8055 E. TUFTS AVE. PKWAY. #1060
DENVER CO 80237 (303) 771-1661

TO:
NORTHSTAR GAS COMPANY, INC.
820 GESSNER, SUITE 1630
HOUSTON, TX 77024 (713) 935-9542

NOV 27 1994
DIVISION OF OIL AND GAS

13.

Name & Signature:

Harry Dean

Title:

President

Date:

5/24/94

(This space for State use only)

Northstar Gas Company, Inc.
Well No. Federal 28-15
SESW Sec. 28, T. 16 S., R. 24 E.
Grand County, Utah
Lease U-10152A

CONDITIONS OF APPROVAL

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.

Be advised that Northstar Gas Company, Inc., is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by UT0845 (Principal - Northstar Gas Company, Inc.) via surety consent as provided for in 43 CFR 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

Routing:

1-LEC	7-LGC
2-DTS	
3-VLC	
4-RJF	
5-PL	
6-SJ	

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: 11-1-93)

TO (new operator)	<u>NORTHSTAR GAS COMPANY INC.</u>	FROM (former operator)	<u>OMIMEX PETROLEUM INC.</u>
(address)	<u>15000 NW FWY STE 203</u>	(address)	<u>8055 E TUFTS AVE STE 1060</u>
	<u>HOUSTON, TX 77040</u>		<u>DENVER, CO 80237</u>
	<u>PAUL BERNARD</u>		
	phone <u>(713) 937-4314</u>		phone <u>(303) 771-1661</u>
	account no. <u>N 6680</u>		account no. <u>N 0735</u>

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

Name:	<u>FEDERAL 3-8/DKTA</u>	API:	<u>43-019-30521</u>	Entity:	<u>6545</u>	Sec	<u>3</u>	Twp	<u>17S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U38838A</u>
Name:	<u>FEDERAL 3-15/DK-MR</u>	API:	<u>43-019-30463</u>	Entity:	<u>6530</u>	Sec	<u>3</u>	Twp	<u>17S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U38838A</u>
Name:	<u>FEDERAL 5-13/DKTA</u>	API:	<u>43-019-30544</u>	Entity:	<u>6528</u>	Sec	<u>5</u>	Twp	<u>17S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U41372</u>
Name:	<u>FEDERAL 28-15/DKTA</u>	API:	<u>43-019-30545</u>	Entity:	<u>9160</u>	Sec	<u>28</u>	Twp	<u>16S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U10152A</u>
Name:	<u>WILSON 33-2/MNCBSB</u>	API:	<u>43-019-30703</u>	Entity:	<u>9162</u>	Sec	<u>33</u>	Twp	<u>16S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U31468</u>
Name:	<u>WILSON 33-15/DKTA</u>	API:	<u>43-019-30520</u>	Entity:	<u>2870</u>	Sec	<u>33</u>	Twp	<u>16S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U31468</u>
Name:	<u>BROWN USA 35-3/DK-MR</u>	API:	<u>43-019-30771</u>	Entity:	<u>6526</u>	Sec	<u>35</u>	Twp	<u>16S</u>	Rng	<u>24E</u>	Lease	Type:	<u>U10152</u>

CONT.

OPERATOR CHANGE DOCUMENTATION

- Sec 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). (Rec'd 11-15-93)
- Sec 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). (Ref. 11-19-93) (Rec'd 5-23-94)
- 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: _____.
- Sec 4. (For Indian and Federal Hells 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.
- Sec 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. (5-31-94)
- Sup 6. Cardex file has been updated for each well listed above. 6-1-94
- Sup 7. Well file labels have been updated for each well listed above. 6-1-94
- Sec 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. (5-31-94)
- Sec 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

- Lee 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 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A/
Lee 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

1. All attachments to this form have been microfilmed. Date: June 8 1994.

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

940531 Btm/Moab Aprv. 5-15-94 eff. 11-1-93.