

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

30-039-25041  
APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                |                                                      |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 1a. TYPE OF WORK<br>DRILL                                                                                      | 5. LEASE NUMBER<br>SF-079192                         |
| 1b. TYPE OF WELL<br>GAS                                                                                        | 6. IF INDIAN, ALL. OR TRIBE NAME                     |
| 2. OPERATOR<br>EL PASO NATURAL GAS CO. 14538<br>Meridian Oil Inc.                                              | 7. UNIT AGREEMENT NAME<br>SAN JUAN 28-6 UNIT         |
| 3. ADDRESS & PHONE NO. OF OPERATOR<br>P O BOX 4289<br>FARMINGTON, NM 87499                                     | 8. FARM OR LEASE NAME<br>SAN JUAN 28-6 UNIT 7462     |
| 4. LOCATION OF WELL<br>1980' FNL 1990' FEL<br>860                                                              | 9. WELL NO.<br>441                                   |
| 10. FIELD, POOL, OR WILDCAT<br>BASIN FRUITLAND COAL 71629                                                      | 11. SEC. T. R. M OR BLK.<br>H SEC. 17 T28N R06W NMPM |
| 14. DISTANCE IN MILES FROM NEAREST TOWN<br>6 MILES S/W OF GOBERNADOR                                           | 12. COUNTY<br>RIO ARRIBA                             |
| 15. DISTANCE FROM<br>PROPOSED LOCATION 1030'<br>TO NEAREST PROPERTY<br>OR LEASE LINE.                          | 13. STATE<br>NM                                      |
| 16. ACRES IN LEASE 17. ACRES ASSIGNED TO WELL<br>1920 5/320.00                                                 |                                                      |
| 18. DISTANCE FROM<br>PROPOSED LOCATION<br>TO NEAREST WELL DR. 500'<br>COMPL., OR APPLIED<br>FOR ON THIS LEASE. | 20. ROTARY OR CABLE TOOLS<br>ROTARY                  |
| 21. ELEVATIONS (DF, FT, GR, ETC.)<br>5784' GL 6741                                                             | 22. APPROX. DATE WORK WILL START                     |
| 23. PROPOSED CASING AND CEMENTING PROGRAM                                                                      |                                                      |

\*SEE OPERATIONS

RECEIVED

JAN 14 1991

24. AUTHORIZED BY: McCaldwell  
REG. DRILLING ENGR.

OIL CON. DIV.  
DIST. 3

9-17-90  
DATE

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_ APPROVED  
AS AMENDED  
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

NOTE: THIS FORMAT IS ISSUED IN LIEU OF US BLM FORM 3160-3.

JAN 04 1991  
AREA MANAGER

Submit to Approver  
District Office  
State Lease - 4 copies  
Fee Lease - 3 copies

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer 00, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

|                                                                                                   |               |                                       |                                 |                |                 |
|---------------------------------------------------------------------------------------------------|---------------|---------------------------------------|---------------------------------|----------------|-----------------|
| Operator<br><i>El Paso Natural Gas</i>                                                            |               |                                       | Lease<br>San Juan 28-6 Unit     |                | Well No.<br>441 |
| Unit Letter<br>H                                                                                  | Section<br>17 | Township<br>28 North                  | Range<br>6 West                 | County<br>NMPM | Rio Arriba      |
| Actual Footage Location of Well:<br>1480 feet from the North line and 860 feet from the East line |               |                                       |                                 |                |                 |
| Ground level elev.<br>6741'                                                                       |               | Producing formation<br>Fruitland Coal |                                 | Pool<br>Basin  |                 |
|                                                                                                   |               |                                       | Dedicated Acreage:<br>320 Acres |                |                 |

1. Outline the acreage dedicated to the subject well by colored pencil or ink on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?  
☒ Yes ☐ No If answer is "yes" type of consolidation unitization  
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)  
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.

Reissued to show  
revised location  
of this well.

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14N14 1991

OIL CON. DIV.  
DIST. 3

SF-079192

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*Peggy Bradfield*  
Signature

Peggy Bradfield

Printed Name

Regulatory Affairs

Position

El Paso Natural Gas

Company

12-6-90

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

12-4-90

Date Surveyed

*Neale C. Edwards*  
Signature of Surveyor

Professional Surveyor



Certificate No.

Neale C. Edwards

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 0

Well Name: 441 SAN JUAN 28-6 UNIT  
 Sec. 17 T28N R06W  
 BASIN FRUITLAND COAL

1030'FNL 1330'FEL  
 RIO ARriba NEW MEXICO  
 Elevation 6784'GL

Formation tops: Surface- San Jose  
 Ojo Alamo- 2749  
 Kirtland- 2925  
 Fruitland- 3285  
 Fruitland Coal Top- 3435  
 Fruitland Coal Base- 3615  
 Pictured Cliffs- 3620

Total Depth- 3618

Logging Program: Mud logs from 3285 to total depth.

| Mud Program: | Interval   | Type          | Weight    | Visc. | Fl. Loss   |
|--------------|------------|---------------|-----------|-------|------------|
|              | 0 - 200    | Spud          | 8.4 - 8.9 | 40-50 | no control |
|              | 200 - 3618 | Non-dispersed | 8.4 - 9.5 | 30-60 | no control |

| Casing Program: | Hole Size | Depth Interval | Csg. Size | Weight | Grade |
|-----------------|-----------|----------------|-----------|--------|-------|
|                 | 12 1/4"   | 0 - 200        | 8 5/8"    | 24.0#  | K-40  |
|                 | 7 7/8"    | 0 - 3618       | 5 1/2"    | 15.5#  | K-55  |
| Tubing Program: |           | 0 - 3618       | 2 3/8"    | 4.7#   | J-55  |

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe. Centralizers will be run in accordance with Onshore Order #2.

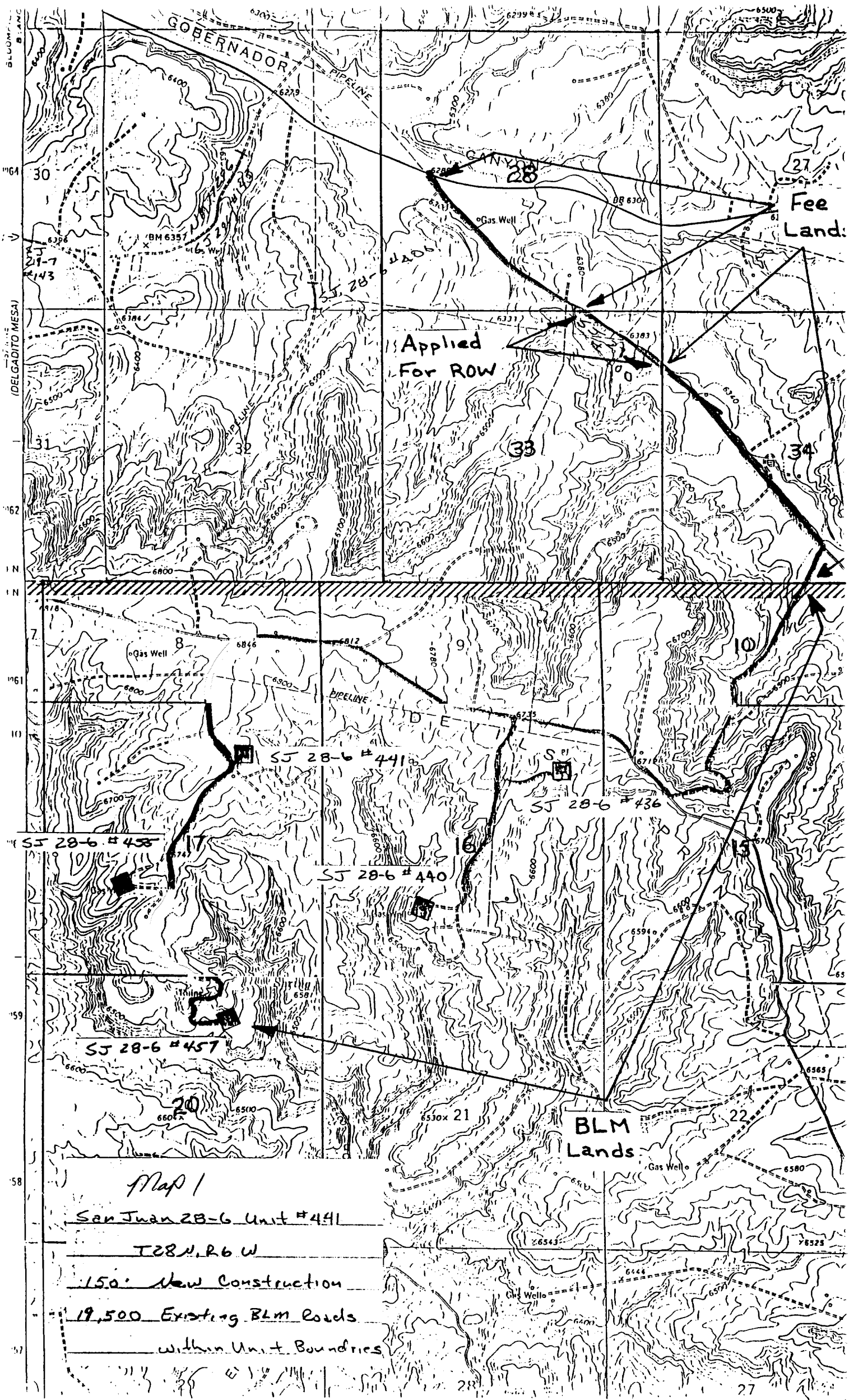
5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2925'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

Wellhead Equipment: 8 5/8" x 5 1/2" x 2 3/8" x 11" 3000 psi xmas tree assembl

#### Cementing:

8 5/8" surface casing - cement with 211 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (248 cu ft. of slurry, 200% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 592 sacks of 65/35 class "B" poz with 6% gel, 2% calcium chloride and 1/2 cu.ft. Perlite/sack (10.3 gallons of water/sack) tail with 100 sacks of class "B" with 2% calcium chloride. 1261 cu ft. of slurry, 100% excess to circulate to surface. If hole conditions permit, a 600 ft spacer will be run ahead of the cement slurry to avoid mud contamination of the cement. WOC 12 hours. If cement does not circulate to surface, a temperature log will be run after 8 hours to determine TOC.



Map 1

San Juan 28-G Unit #441

T28N, R6W

150' New Construction

19,500 Existing BLM Roads  
within Unit 4 Boundaries