

RECEIVED

NOV 09 1990 UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OIL CON. DR.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
DRILL

1b. TYPE OF WELL  
GAS

2. OPERATOR  
EL PASO NATURAL GAS CO.  
*El Paso Natural Gas Co.*

3. ADDRESS & PHONE NO. OF OPERATOR  
P O BOX 4289  
FARMINGTON, NM 87499

4. LOCATION OF WELL  
1335' FNL 790' FEL

5. LEASE NUMBER  
SF-079192

6. IF INDIAN, ALL. OR TRIBE NAME

7. UNIT AGREEMENT NAME  
SAN JUAN 28-6 UNIT

8. FARM OR LEASE NAME  
SAN JUAN 28-6 UNIT

9. WELL NO.  
436

10. FIELD, POOL, OR WILDCAT  
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.  
14 SEC. 16 T28N R06W NMPM

14. DISTANCE IN MILES FROM NEAREST TOWN  
7 MILES S/W OF GOBERNADOR

12. COUNTY  
RIO ARRIBA

13. STATE  
NM

15. DISTANCE FROM  
PROPOSED LOCATION 1335'  
TO NEAREST PROPERTY  
OR LEASE LINE.

16. ACRES IN LEASE  
1920

17. ACRES ASSIGNED TO WELL  
320.00

18. DISTANCE FROM  
PROPOSED LOCATION  
TO NEAREST WELL DR. 700'  
COMPL., OR APPLIED  
FOR ON THIS LEASE.

19. PROPOSED DEPTH  
3572'

20. ROTARY OR CABLE TOOLS  
ROTARY

21. ELEVATIONS (DF, FT, GR, ETC.)  
6704' GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

\*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *J. Caldwell*  
REG. DRILLING ENGR.

*9-17-90*  
DATE

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE *OCT 1990*  
**Ken Townsend**

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

NMOOD

Submit to Appropriate  
District Office  
State Leases - 4 copies  
Fee Leases - 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

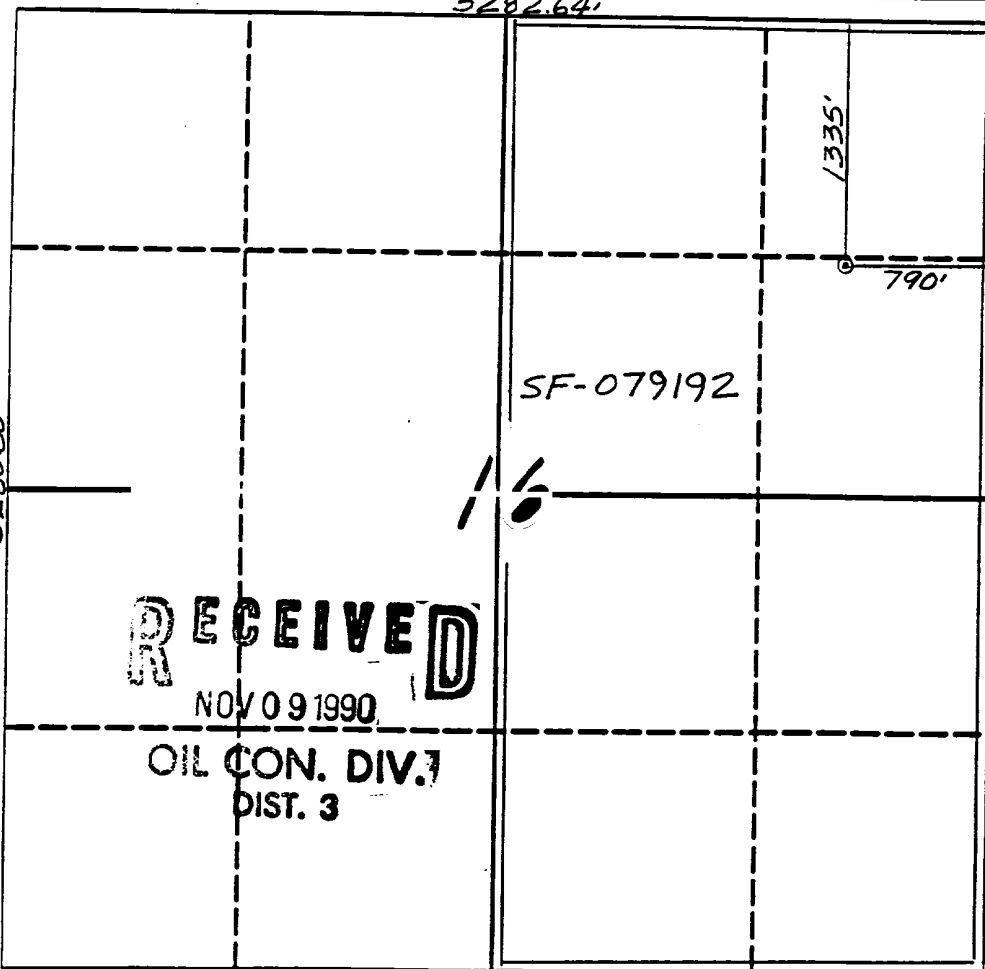
DISTRICT II  
P.O. Drawer 00, Artesia, NM 88210

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>(SF-079192)<br>San Juan 28-6 Unit |                      | Well No.<br>436                 |
| Unit Letter<br>H                                                                                  | Section<br>16 | Township<br>28 North                  | Range<br>6 West                            | County<br>Rio Arriba |                                 |
| Actual Footage Location of Well:<br>1335 feet from the North line and 790 feet from the East line |               |                                       |                                            |                      |                                 |
| Ground level Elev.<br>6704'                                                                       |               | 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 highlighter marks 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, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



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

Date  
9-17-90

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.

8-8-90

Date Surveyed

Signature  
Professional



Certified by  
Neale C. Edwards

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

Well Name: 436 SAN JUAN 28-6 UNIT  
 Sec. 16 T28N R06W  
 BASIN FRUITLAND COAL

1335'FNL 790' FEL  
 RIO ARRIBA NEW MEXICO  
 Elevation 6704'GL

Formation tops: Surface- San Jose

Ojo Alamo- 2776

Kirtland- 2908

Fruitland- 3286

Fruitland Coal Top- 3363

Fruitland Coal Base- 3569

Pictured Cliffs- 3569

Total Depth- 3572

Logging Program: Mud logs from 3286 to total depth.

| Mud Program: | Interval   | Type          | Weight    | Visc. | Fl. Loss  |
|--------------|------------|---------------|-----------|-------|-----------|
|              | 0 - 200    | Spud          | 8.4 - 8.9 | 40-50 | no contro |
|              | 200 - 3572 | Non-dispersed | 8.4 - 9.5 | 30-60 | no contro |

| 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 - 3572       | 5 1/2"    | 15.5#  | K-55  |
| Tubing Program: |           | 0 - 3572       | 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.

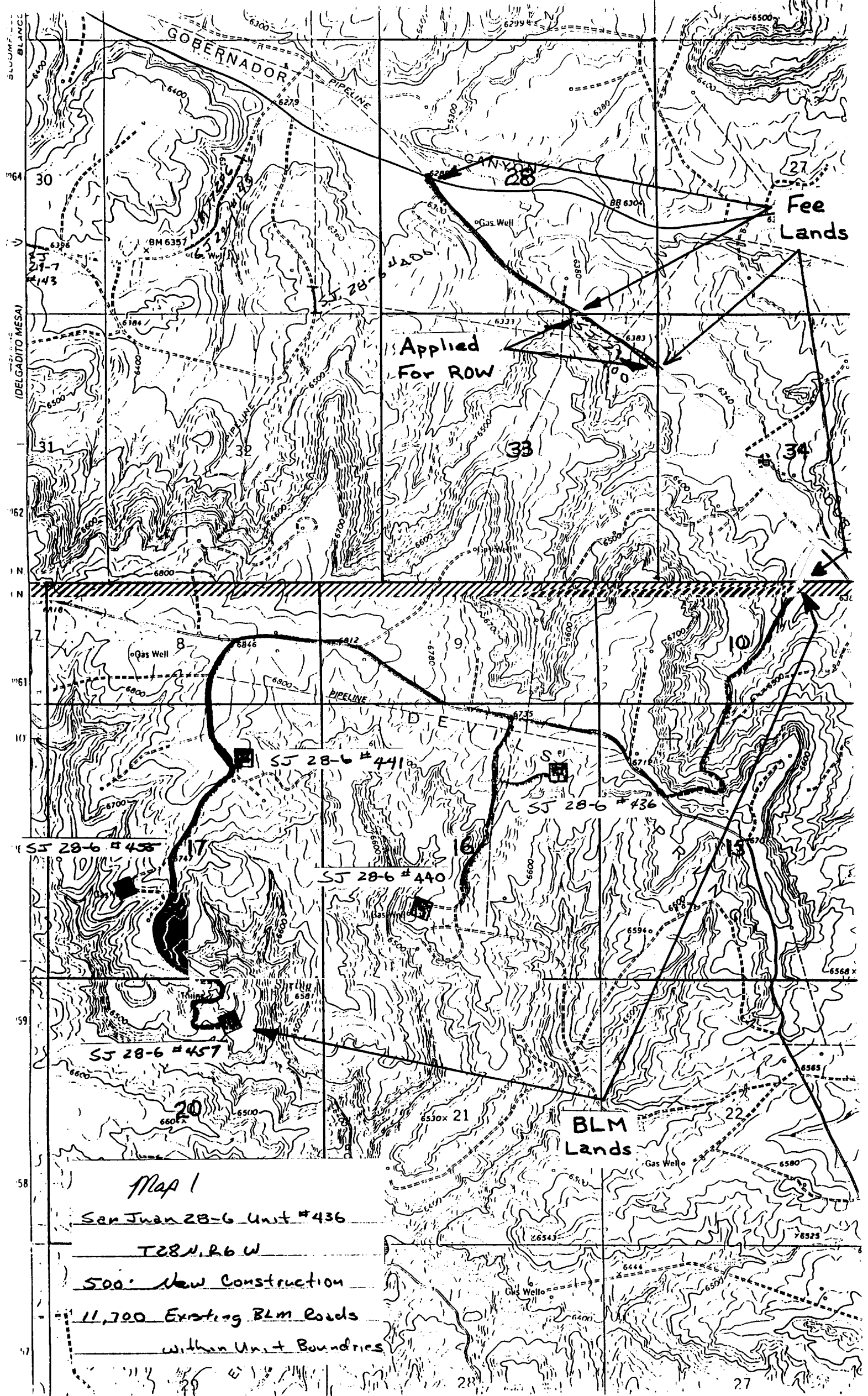
5 1/2" production casing - float shoe on bottom. Three centralizers run every other joint above shoe. Two turbolizing type centralizers - one below and one into the base of the Ojo Alamo @ 2908'. Standard centralizers thereafter every fourth joint up to the base of the surface pipe.

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

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 584 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. 1245 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 28-6 Unit #436

T28N, R6W

500' New Construction

11,700 Existing BLM Roads

within Unit Boundaries