

30-039-24569

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|                                                                                                                |                                                             |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1a. TYPE OF WORK<br>DRILL                                                                                      | 5. LEASE NUMBER<br>SF-078423                                |
| 1b. TYPE OF WELL<br>GAS                                                                                        | 6. IF INDIAN, ALL. OR TRIBE NAME                            |
| 2. OPERATOR<br><del>EL PASO NATURAL GAS CO.</del><br><i>Meridian Oil Co.</i>                                   | 7. UNIT AGREEMENT NAME<br>SAN JUAN 29-7 UNIT                |
| 3. ADDRESS & PHONE NO. OF OPERATOR<br>P O BOX 4289<br>FARMINGTON, NM 87499                                     | 8. FARM OR LEASE NAME<br>SAN JUAN 29-7 UNIT                 |
| 4. LOCATION OF WELL<br>1260'N 1540'E                                                                           | 9. WELL NO.<br>523                                          |
| 14. DISTANCE IN MILES FROM NEAREST TOWN<br>9 MILES FROM GOVERNADOR                                             | 10. FIELD, POOL, OR WILDCAT<br>BASIN FRUITLAND COAL         |
| 15. DISTANCE FROM<br>PROPOSED LOCATION 1260'<br>TO NEAREST PROPERTY<br>OR LEASE LINE.                          | 11. SEC. T. R. M OR BLK.<br><i>X</i> SEC. 17 T29N R07W NMPM |
| 16. ACRES IN LEASE                                                                                             | 12. COUNTY<br>RIO ARRIBA                                    |
| 17. ACRES ASSIGNED TO WELL<br><i>E</i> 320.00                                                                  | 13. STATE<br>NM                                             |
| 18. DISTANCE FROM<br>PROPOSED LOCATION<br>TO NEAREST WELL DR.<br>COMPL., OR APPLIED<br>FOR ON THIS LEASE. 400' | 19. PROPOSED DEPTH<br>3510'                                 |
| 20. ROTARY OR CABLE TOOLS<br>ROTARY                                                                            |                                                             |
| 21. ELEVATIONS (DF, FT, GR, ETC.)<br>6665'GL                                                                   | 22. APPROX. DATE WORK WILL START                            |
| 23. PROPOSED CASING AND CEMENTING PROGRAM                                                                      |                                                             |

\*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *[Signature]*  
REGULATORY AFFAIRS

*10-7-89*  
DATE

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

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

NM00D

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

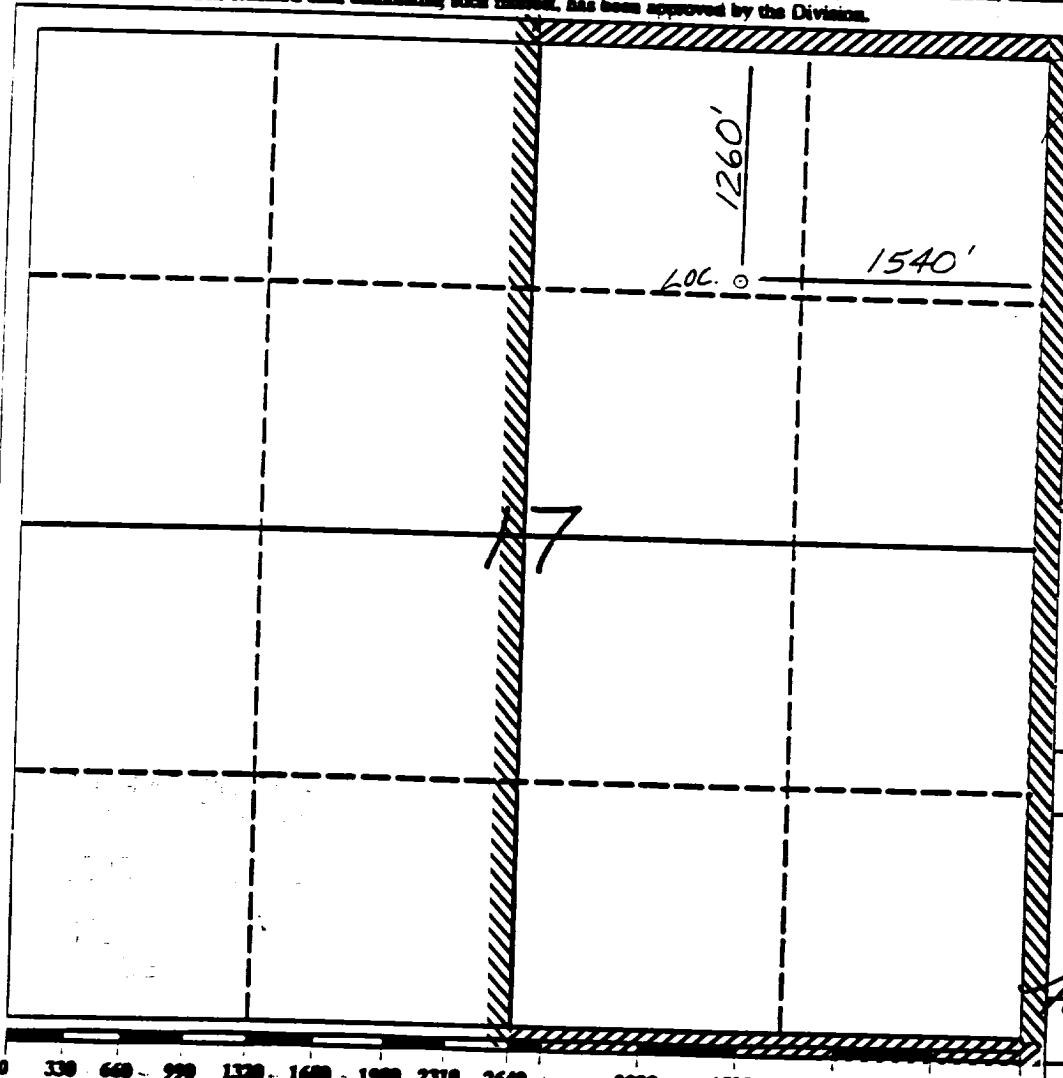
DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

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><u>El Paso Natural Gas</u>                                                                                         |                                              | Lease<br><u>San Juan 29-7</u> (SF-078423) |                        | Well No.<br><u>523</u>                 |
| Unit Letter<br><u>B</u>                                                                                                        | Section<br><u>17</u>                         | Township<br><u>29 North</u>               | Range<br><u>7 West</u> | County<br><u>NMPM Rio Arriba</u>       |
| Actual Footage Location of Well:<br><u>1260</u> feet from the <u>North</u> line and <u>1540</u> feet from the <u>East</u> line |                                              |                                           |                        |                                        |
| Ground level Elev.<br><u>6665'</u>                                                                                             | Producing Formation<br><u>Fruitland Coal</u> |                                           | Pool<br><u>Basin</u>   | Dedicated Acreage:<br><u>320</u> Acres |

- Outline the acreage dedicated to the subject well by colored pencils or hectare marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.



OPERATOR CERTIFICATION

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

Signature Peggy Bradfield

Printed Name Peggy Bradfield

Position Regulatory Affairs

Company El Paso Natural Gas

Date 10-7-89

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes, 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.

Date Surveyed 10-7-89

Signature of Surveyor Neale C. Edwards

Professional Surveyor 857

Certificate No. 6857

Well Name: 523 SAN JUAN 29-7 UNIT  
 Sec. 17 T29N R07W  
 BASIN FRUITLAND COAL

1260'N 1540'E  
 RIO ARRIBA NEW MEXICO  
 Elevation 6665'GL

Formation tops: Surface- SAN JOSE  
 Ojo Alamo- 2521  
 Kirtland- 2709  
 Fruitland- 3210  
 Fruitland Coal Top- 3404  
 Fruitland Coal Base- 3510  
 Total Depth- 3510  
 Pictured Cliffs- 3514

Logging Program: Mud logs from 3210 to total depth.

| Mud Program: | Interval   | Type          | Weight    | Visc. | Fl. Loss   |
|--------------|------------|---------------|-----------|-------|------------|
|              | 0 - 200    | Spud          | 8.4 - 8.9 | 40-50 | no control |
|              | 200 - 3510 | 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 - 3510       | 5 1/2"    | 15.5#  | K-55  |
| Tubing Program: |           | 0 - 3510       | 2 3/8"    | 4.7#   | J-55  |

Float Equipment: 8 5/8" surface casing - saw tooth guide shoe.

5 1/2" production casing - float shoe on bottom.  
 Three centralizers run every other joint above shoe.

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

#### Cementing:

8 5/8" surface casing - cement with 140 sacks of class "B" cement with 1/4# flocculent/sack and 3% calcium chloride (165 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

5 1/2" production casing - lead with 116 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. 343 cu ft. of slurry, 100% excess to cover the Ojo Alamo. Run temperature survey at 8 hours. WOC 12 hours. Test casing to 1500 psi for 30 minutes.

