

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.

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

4. LOCATION OF WELL  
790'N 1305'S

5. LEASE NUMBER  
SF-080713A

6. IF INDIAN, ALL. OR TRIBE NAME

7. UNIT AGREEMENT NAME  
SAN JUAN 30-6 UNIT

8. FARM OR LEASE NAME  
SAN JUAN 30-6 UNIT

9. WELL NO.  
472

10. FIELD, POOL, OR WILDCAT  
BASIN FRUITLAND COAL

11. SEC. T. R. M OR BLK.  
SEC. 22 T30N R06W NMPM

12. COUNTY  
RIO ARRIBA

13. STATE  
NM

14. DISTANCE IN MILES FROM NEAREST TOWN  
10 mi. N. of Gobernador

15. DISTANCE FROM  
PROPOSED LOCATION 790'  
TO NEAREST PROPERTY  
OR LEASE LINE.

16. ACRES IN LEASE

17. ACRES ASSIGNED TO WELL  
320.00

18. DISTANCE FROM  
PROPOSED LOCATION  
TO NEAREST WELL DR. 5280'  
COMPL., OR APPLIED  
FOR ON THIS LEASE

19. PROPOSED DEPTH  
3378'

20. ROTARY OR CABLE TOOLS  
ROTARY

21. ELEVATIONS (DF, FT, GR, ETC.)  
6453'GL

22. APPROX. DATE WORK WILL START

23. PROPOSED CASING AND CEMENTING PROGRAM

\*SEE OPERATIONS PLAN

24. AUTHORIZED BY: *Regulatory Affairs*  
REGULATORY AFFAIRS

JUL 13 1989

OIL CON. DIV.  
DIST. 3

6-14-89  
DATE

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

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

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

NMCCO

Submit to Appropriate  
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 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>(SF-080713A)</u><br><u>San Juan 30-6 Unit</u> |                        | Well No.<br><u>472</u>                   |
| Unit Letter<br><u>A</u>                                                                                                       | Section<br><u>22</u>                         | Township<br><u>30 North</u>                               | Range<br><u>6 West</u> | County<br><u>Rio Arriba</u>              |
| Actual Footage Location of Well:<br><u>790</u> feet from the <u>North</u> line and <u>1305</u> feet from the <u>East</u> line |                                              |                                                           |                        |                                          |
| Ground level Elev.<br><u>6453</u>                                                                                             | Producing Formation<br><u>Fruitland Coal</u> |                                                           | Pool<br><u>Basin</u>   | Dedicated Acreage:<br><u>320.0</u> Acres |

- Outline the acreage dedicated to the subject well by colored pencil 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 the best of my knowledge and belief.

Peggy Bradfield  
Signature

Peggy Bradfield  
Printed Name

Regulatory Affairs  
Position

El Paso Natural Gas  
Company

6-14-89  
Date

6-14-89  
Date

SURVEYOR CERTIFICATION

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

4-29-89  
Date Surveyed

Neale O. Edwards  
Signature of Seal

Professional Surveyor  
Professional Surveyor

6857  
Certificate No.

6857  
Certificate No.

6857  
Certificate No.

6857  
Certificate No.

6857  
Certificate No.

6857  
Certificate No.

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Well Name: 472 SAN JUAN 30-6 UNIT  
 Sec. 22 T30N R06W  
 BASIN FRUITLAND COAL

790'N 1305'S  
 RIO ARriba NEW MEXICO  
 Elevation 6453'GL

Formation tops: Surface- SAN JOSE  
 Ojo Alamo- 2381  
 Kirtland- 2584  
 Fruitland- 3042  
 Fruitland Coal Top- 3108  
 Fruitland Coal Base- 3373  
 Intermediate TD- 3088  
 Total Depth- 3378  
 Pictured Cliffs- 3377

Logging Program: Mud logs from intermediate to total depth.

| Mud Program: | Interval    | Type            | Weight    | Visc. | Fl. Loss  |
|--------------|-------------|-----------------|-----------|-------|-----------|
|              | 0 - 200     | Spud            | 8.4 - 8.9 | 40-50 | no contro |
|              | 200 - 3088  | Non-dispersed   | 8.4 - 9.1 | 30-60 | no contro |
|              | 3088 - 3378 | Formation Water | 8.4       |       | no contro |

| Casing Program: | Hole Size | Depth Interval | Csg. Size | Weight | Grade |
|-----------------|-----------|----------------|-----------|--------|-------|
|                 | 12 1/4"   | 0 - 200        | 9 5/8"    | 32.3#  | H-40  |
|                 | 8 3/4"    | 0 - 3088       | 7"        | 20.0#  | K-55  |
|                 | 6 1/4"    | 3038 - 3378    | 5 1/2"    | 15.5#  | K-55  |
| Tubing Program: |           | 0 - 3378       | 2 7/8"    | 6.5#   | J-55  |

Float Equipment: 9 5/8" surface casing - saw tooth guide shoe.

7" intermediate casing - guide shoe and self-fill insert float valve. Three centralizers run every other joint above shoe. Run insert float one joint above the guide shoe.

5 1/2" production casing - float shoe on bottom and a pre-drilled liner run to the 7" casing with a minimum 50' overlap. Liner hanger is a double slip grip type.

Wellhead Equipment: 9 5/8" x 7" x 2 7/8" x 11" 3000 psi xmas tree assembly.

#### Cementing:

9 5/8" surface casing - cement with 106 sacks of class "B" cement with 1/4# flocele/sack and 3% calcium chloride (125 cu ft. of slurry, 100% excess to circulate to surface). WOC 12 hours. Test casing to 600 psi for 30 minutes.

7" intermediate casing - lead with 49 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. 213 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.

5 1/2" liner - do not cement.

BOP and Tests:

Surface to intermediate TD - 11" 3000 psi double gate BOP stack (Reference Figure #1). Prior to drilling out surface casing, test rams to 600 psi for 30 minutes.

Intermediate TD to TD - 7 1/16" 3000 psi double gate BOP stack (Reference Figure #2). Prior to drilling out intermediate casing, test rams to 2500 psi for 30 minutes.

Pipe rams will be actuated at least once each day and blind rams actuated once each trip to test proper functioning.

Addition Information:

The Fruitland coal formation will be completed.  
This gas is dedicated.  
The E/2 of Section 22 is dedicated to this well.

T-30-N

R-6-W  
ST 30-6 H 472

