

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

El Paso Natural Gas Company

## 3. ADDRESS OF OPERATOR

Box 990, Farmington, New Mexico - 87401

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

1750'N, 1610'W

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 16. NO. OF ACRES IN LEASE

## 19. PROPOSED DEPTH

7000'

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

323.60

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5871' OL

## 22. APPROX. DATE WORK WILL START\*

## 12. COUNTY OR PARISH

San Juan

## 13. STATE

New Mexico

## 10. FIELD AND POOL, OR WILDCAT

Basin Dakota

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREASec. 1, T-29-N, R-10-W  
N.M.P.M.

## 12. COUNTY OR PARISH

San Juan

## 13. STATE

New Mexico

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT    |
|--------------|----------------|-----------------|---------------|-----------------------|
| 13 3/4"      | 9 5/8"         | 32.30#          | 200'          | 145 Sks. to circulate |
| 8 3/4"       |                |                 | 4880'         |                       |
| 7 7/8"       | 4 1/2"         | 10.5 & 11.6#    | 7000'         | 780 Sks. - 3 Stages   |

## Production Casing Cementing:

First stage w/260 sacks to fill from total depth to the top of the Gallup formation.  
Second stage w/225 sacks to cover the Mesa Verde formation.  
Third stage w/295 sacks cement to cover the Pictured Cliffs formation.

Selectively perforate and sand water fracture the Dakota formation

The N/2 of Section 1 is dedicated to this well.

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N. M.

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.

Original signed by  
Carl E. Matthews

SIGNED

TITLE

Petroleum Engineer

DATE

10-15-68

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal 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.

**Item 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

**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 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

**Items 15 and 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

**Item 22:** Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

★ U.S. GOVERNMENT PRINTING OFFICE : 1963-O-711-396



NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form 7-1  
Supersedes O-28  
Effective 1-1-67

All distances must be from the outer boundaries of the Section.

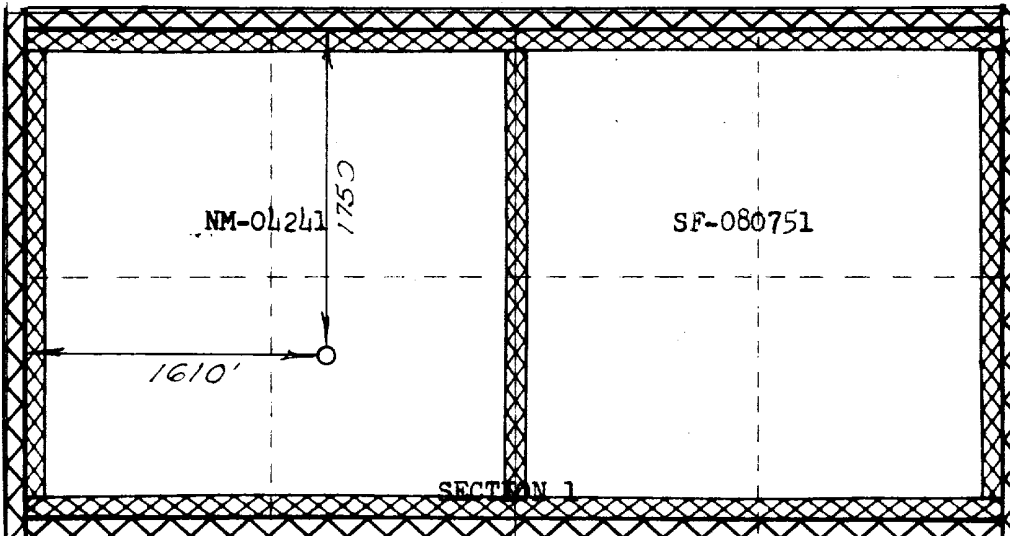
|                             |        |              |      |            |   |
|-----------------------------|--------|--------------|------|------------|---|
| EL PASO NATURAL GAS COMPANY |        | SUNRAY F     |      | (NM-04241) | 3 |
| F                           | 1      | 29-N         | 10-W | SAN JUAN   |   |
| 1750                        | NORTH  | 1610         | WEST |            |   |
| 5871                        | DAKOTA | BASIN DAKOTA |      | 323.60     |   |

- Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

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 interests, has been approved by the Commission.



**RECEIVED**  
OCT 22 1968  
OIL CON. COM.  
DIST. 3

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  
**Original signed by**  
**Carl E. Matthews**

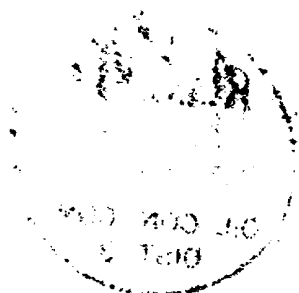
Name  
**Petroleum Engineer**  
Position  
**El Paso Natural Gas Co.**  
Company  
**October 15, 1968**  
Date

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.

Date  
**SEPTEMBER 10, 1968**

*David Kilgus*  
1760

550 660 770 880 990 1100 1210 1320 1430 1540 1650 1760 1870 1980 2090



100-100000

100-100000



**LTR**



**Job separation sheet**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1421.

## 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. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>                                                 | 5. LEASE DESIGNATION AND SERIAL NO.<br><b>BM 01241</b>                            |
| 2. NAME OF OPERATOR<br><b>El Paso Natural Gas Company</b>                                                                                                        | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                              |
| 3. ADDRESS OF OPERATOR<br><b>Box 990, Farmington, New Mexico - 87401</b>                                                                                         | 7. UNIT AGREEMENT NAME                                                            |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*<br>See also space 17 below.)<br>At surface<br><b>1750'N, 1610'W</b> | 8. FARM OR LEASE NAME<br><b>Sunray I</b>                                          |
| 14. PERMIT NO.                                                                                                                                                   | 9. WELL NO.<br><b>3</b>                                                           |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.)<br><b>5871' GL</b>                                                                                                | 10. FIELD AND POOL, OR WILDCAT<br><b>Basin Dakota</b>                             |
|                                                                                                                                                                  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br><b>Sec. 1, T-29-N, R-10-W</b> |
|                                                                                                                                                                  | 12. COUNTY OR PARISH<br><b>New Mexico</b>                                         |
|                                                                                                                                                                  | 13. STATE<br><b>New Mexico</b>                                                    |

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

## NOTICE OF INTENTION TO:

|                                              |                                               |
|----------------------------------------------|-----------------------------------------------|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/>      | MULTIPLE COMPLETE <input type="checkbox"/>    |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ABANDON* <input type="checkbox"/>             |
| REPAIR WELL <input type="checkbox"/>         | CHANGE PLANS <input type="checkbox"/>         |
| (Other) <input type="checkbox"/>             |                                               |

## SUBSEQUENT REPORT OF:

|                                                        |                                          |
|--------------------------------------------------------|------------------------------------------|
| WATER SHUT-OFF <input checked="" type="checkbox"/>     | REPAIRING WELL <input type="checkbox"/>  |
| FRACTURE TREATMENT <input checked="" type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOTING OR ACIDIZING <input type="checkbox"/>         | ABANDONMENT* <input type="checkbox"/>    |
| (Other) <input type="checkbox"/>                       |                                          |

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

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.)\*

On 11-1-68 spudded well, drilled surface hole.

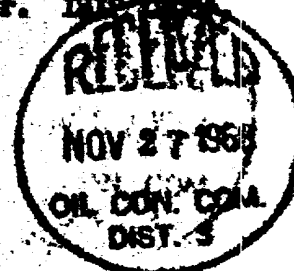
On 11-2-68 ran 7 joints 9 5/8", 32.30#, H-40 casing (212') set at 224' w/145 sacks of cement circulated to surface. W.O.C. 12 hours, tested w/600#/30 Min. O. K.

On 11-21-68 T.D. 7005', ran 219 joints 4 1/2", 10.5# and 11.6# J-55 casing (6993') set at 7005'. Float collar set at 6984', second stage tool at 4980', third stage tool at 2615', cemented first stage w/260 sacks of cement, second stage w/225 sacks of cement, third stage w/295 sacks of cement. W.O.C. 18 hours.

On 11-22-68 P.B.T.D. 6984', tested casing to 4000# O. K. Spotted 300 gal. 7 1/2" HCL. Perf. 6722-34', 6798-6810', 6854-62', 6896-6904', 6944-52' w/24 SFZ. Pres w/65,000# 40/60 sand, 65,200 gal. water. Max. pr. 4000#, BH 1900#, avg. tr. pr. 3500#, I.R. 40 BPM. Dropped 4 sets of 24 balls, flushed w/4560 gallons of water. I.R. 1000# 5 Min. 800#, 15 Min. 600#, 30 Min. 500#.

RECEIVED

NOV 27 1968

U. S. GEOLOGICAL SURVEY  
FARMINGTON, N.M.

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

|        |                                               |       |                           |      |                 |
|--------|-----------------------------------------------|-------|---------------------------|------|-----------------|
| SIGNED | Original signed by<br><b>Carl E. Matthews</b> | TITLE | <b>Petroleum Engineer</b> | DATE | <b>11-25-68</b> |
|--------|-----------------------------------------------|-------|---------------------------|------|-----------------|

(This space for Federal or State office use)

|                                 |       |      |
|---------------------------------|-------|------|
| APPROVED BY                     | TITLE | DATE |
| CONDITIONS OF APPROVAL, IF ANY: |       |      |

\*See Instructions on Reverse Side

## Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

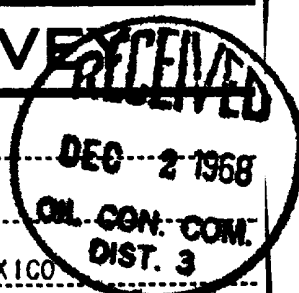
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for special instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

# B. & R. SERVICE, INC.

## TEMPERATURE SURVEY

COMPANY EL PASO NATURAL GAS COMPANY  
WELL SUNRAY 3 FIELD   
COUNTY SAN JUAN STATE NEW MEXICO  
SEC. F-1 TWP. 29N RGE. 10W



APPROX. TOP CEMENT 1490

Survey Begins at 1000 Ft. Ends at 2623 Ft.  
Approx. Fill-Up  Max. Temp. 116° @ 2623  
Log Measured From D. F. Run No. 1

| Casing Size                | Casing Depth   | Diam of Hole               | Depth      |
|----------------------------|----------------|----------------------------|------------|
| <u>4 1/2"</u> from <u></u> | to <u>7005</u> | <u>7 7/8"</u> from <u></u> | to <u></u> |
| from <u></u>               | to <u></u>     | from <u></u>               | to <u></u> |

|                   |                      |              |                  |
|-------------------|----------------------|--------------|------------------|
| Date of Cementing | <u>11-21-68</u>      | Time         | <u>9:45 P.M.</u> |
| Date of Survey    | <u>11-22-68</u>      | Time         | <u>4:00 A.M.</u> |
| Amount of Cement  | <u>245 Sks. Q. C</u> | Type         | <u></u>          |
| Amount of Admix   | <u></u>              | Type         | <u></u>          |
| Recorded by       | <u>HOLLOWAY</u>      | Witnessed by | <u></u>          |

### REMARKS OR OTHER DATA

### TEMPERATURE IN DEGREES FAHRENHEIT

