

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.6.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

|                                                                                                                                                                                                                                 |                 |                                                                                      |                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------------------------------------------------------|--------------------------------------------|
| 1a. TYPE OF WELL:<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____                                                                                    |                 | 5. LEASE DESIGNATION AND SERIAL NO.<br>SF080668                                      |                                            |
| b. TYPE OF COMPLETION:<br>NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____ |                 | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                                 |                                            |
| 2. NAME OF OPERATOR<br>El Paso Natural Gas Company                                                                                                                                                                              |                 | 7. UNIT AGREEMENT NAME<br>San Juan 27-4 Unit                                         |                                            |
| 3. ADDRESS OF OPERATOR<br>P. O. Box 990, Farmington, NM 87401                                                                                                                                                                   |                 | 8. FARM OR LEASE NAME<br>San Juan 27-4 Unit                                          |                                            |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface 1180'S, 1840'W<br>At top prod. interval reported below<br>At total depth                                             |                 | 9. WELL NO.<br>98                                                                    |                                            |
| 14. PERMIT NO.                                                                                                                                                                                                                  |                 | 10. FIELD AND POOL, OR WILDCAT<br>Basin Dakota                                       |                                            |
| 15. DATE SPUDDED<br>12-08-74                                                                                                                                                                                                    |                 | 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA<br>Sec. 10, T-27-N, R-4-W N.M.P.M. |                                            |
| 16. DATE T.D. REACHED<br>12-22-74                                                                                                                                                                                               |                 | 12. COUNTY OR PARISH<br>Rio Arriba                                                   |                                            |
| 17. DATE COMPL. (Ready to prod.)<br>01-24-75                                                                                                                                                                                    |                 | 13. STATE<br>New Mexico                                                              |                                            |
| 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*<br>6763' GL                                                                                                                                                                             |                 | 19. ELEV. CASINGHEAD                                                                 |                                            |
| 20. TOTAL DEPTH, MD & TVD<br>8174'                                                                                                                                                                                              |                 | 21. PLUG BACK T.D., MD & TVD<br>8157'                                                |                                            |
| 22. IF MULTIPLE COMPL., HOW MANY*                                                                                                                                                                                               |                 | 23. INTERVALS DRILLED BY<br>ROTARY TOOLS 0-8174<br>CABLE TOOLS                       |                                            |
| 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br>7886-8068' (DK)                                                                                                                                |                 | 25. WAS DIRECTIONAL SURVEY MADE<br>No                                                |                                            |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>Ind-GR; CDL-GR; Acoustic Cement Bond; Temp. Survey                                                                                                                                      |                 | 27. WAS WELL CORED<br>No                                                             |                                            |
| 28. CASING RECORD (Report all strings set in well)                                                                                                                                                                              |                 |                                                                                      |                                            |
| CASING SIZE                                                                                                                                                                                                                     | WEIGHT, LB./FT. | DEPTH SET (MD)                                                                       | HOLE SIZE                                  |
| 9 5/8"                                                                                                                                                                                                                          | 32.3#           | 209'                                                                                 | 13 3/4"                                    |
| 7"                                                                                                                                                                                                                              | 20#             | 3937                                                                                 | 8 3/4"                                     |
| 4 1/2"                                                                                                                                                                                                                          | 10.5# & 11.6#   | 8174'                                                                                | 6 1/4"                                     |
| CEMENTING RECORD                                                                                                                                                                                                                |                 |                                                                                      |                                            |
| 225 cu. ft.                                                                                                                                                                                                                     |                 |                                                                                      |                                            |
| 201 cu. ft.                                                                                                                                                                                                                     |                 |                                                                                      |                                            |
| 647 cu. ft.                                                                                                                                                                                                                     |                 |                                                                                      |                                            |
| AMOUNT PULLED                                                                                                                                                                                                                   |                 |                                                                                      |                                            |
| 29. LINER RECORD                                                                                                                                                                                                                |                 |                                                                                      |                                            |
| SIZE                                                                                                                                                                                                                            | TOP (MD)        | BOTTOM (MD)                                                                          | SACKS CEMENT*                              |
|                                                                                                                                                                                                                                 |                 |                                                                                      |                                            |
| 30. TUBING RECORD                                                                                                                                                                                                               |                 |                                                                                      |                                            |
| SIZE                                                                                                                                                                                                                            | DEPTH SET (MD)  | PACKER SET (MD)                                                                      |                                            |
| 1 1/2"                                                                                                                                                                                                                          | 8059'           |                                                                                      |                                            |
| 31. PERFORATION RECORD (Interval, size and number)<br>7886', 7960', 7986', 8030', 8052', 8060', 8068' with 1 shot per zone.                                                                                                     |                 |                                                                                      |                                            |
| 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                                                                                                                                                                  |                 |                                                                                      |                                            |
| DEPTH INTERVAL (MD)                                                                                                                                                                                                             |                 | AMOUNT AND KIND OF MATERIAL USED                                                     |                                            |
| 7886-8068'                                                                                                                                                                                                                      |                 | 40,000# sand; 48,160 gal wtr                                                         |                                            |
| 33.* PRODUCTION                                                                                                                                                                                                                 |                 |                                                                                      |                                            |
| DATE FIRST PRODUCTION                                                                                                                                                                                                           |                 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br>Flowing      |                                            |
| WELL STATUS (Producing or shut-in)<br>Shut-in                                                                                                                                                                                   |                 |                                                                                      |                                            |
| DATE OF TEST                                                                                                                                                                                                                    | HOURS TESTED    | CHOKE SIZE                                                                           | PROD'N. FOR TEST PERIOD                    |
| 01-24-75                                                                                                                                                                                                                        | 3 hours         | 3/4"                                                                                 |                                            |
| FLOW. TUBING PRESS.                                                                                                                                                                                                             | CASING PRESSURE | CALCULATED 24-HOUR RATE                                                              | OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO |
| SI 2512                                                                                                                                                                                                                         | SI 2512         |                                                                                      | 481 MCF/D AOF                              |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)                                                                                                                                                                      |                 |                                                                                      |                                            |
| TEST WITNESSED BY<br>Carl Rhames                                                                                                                                                                                                |                 |                                                                                      |                                            |
| 35. LIST OF ATTACHMENTS                                                                                                                                                                                                         |                 |                                                                                      |                                            |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records                                                                                               |                 |                                                                                      |                                            |
| SIGNED <u>L. J. Guico</u>                                                                                                                                                                                                       |                 | TITLE <u>Drilling Clerk</u>                                                          |                                            |
| DATE <u>February 6, 1975</u>                                                                                                                                                                                                    |                 |                                                                                      |                                            |

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**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 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| 37. SUMMARY OF POROUS ZONES: |  |     |        | 38. GEOLOGIC MARKERS        |                  |
|------------------------------|--|-----|--------|-----------------------------|------------------|
| FORMATION                    |  | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. |                  |
|                              |  |     |        | NAME                        | MEAS. DEPTH      |
|                              |  |     |        |                             | TRUE VERT. DEPTH |
|                              |  |     |        | Mesa Verde                  | 5428'            |
|                              |  |     |        | Point Lookout               | 5822'            |
|                              |  |     |        | Gallup                      | 6558'            |
|                              |  |     |        | Greenhorn                   | 7782'            |
|                              |  |     |        | Graneros                    | 7831'            |
|                              |  |     |        | Dakota                      | 7950'            |

# EL PASO NATURAL GAS COMPANY

## DEVIATION REPORT

|                                                |                |                  |               |                                                |             |  |  |
|------------------------------------------------|----------------|------------------|---------------|------------------------------------------------|-------------|--|--|
| Name Of Company<br>El Paso Natural Gas Company |                |                  |               | Address<br>P. O. Box 990, Farmington, NM 87401 |             |  |  |
| Lease<br>San Juan 27-4 Unit                    | Well No.<br>98 | Unit Letter<br>N | Section<br>10 | Township<br>27N                                | Range<br>4W |  |  |
| Pool<br>Basin Dakota                           |                |                  |               | County<br>Rio Arriba                           |             |  |  |

### DEPTH

### DEVIATION

211'

1°

745'

1°

1145'

1°

1532'

3/4°

1988'

1°

2331'

1°

3052'

1°

3390'

1 1/2°

4421'

1°

5037'

1°

6104'

1°

7097'

1°

7616'

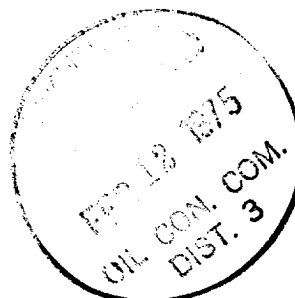
1 1/4°

7895'

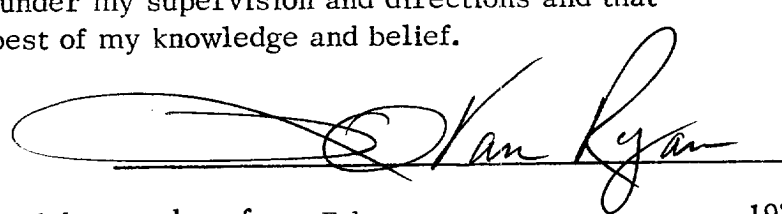
1 1/4°

8174'

1°



I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer of El Paso Natural Gas Company, am authorized by said Company to make this report; and that this report was prepared by me or under my supervision and directions and that the facts stated therein are true to the best of my knowledge and belief.



Subscribed and sworn to before me this 6th day of February, 1975.



Notary Public in and for San Juan County, New Mexico

My commission expires October 5, 1976.