

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

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 <input type="checkbox"/>                                                                                                                                                                                                                               |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>NM 044216                                                                                                                                                         |  |
| b. TYPE OF COMPLETION:<br>NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> DIFF. CENVR <input type="checkbox"/> Other <input type="checkbox"/>                                                                                                                                             |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                                                                                                                                                     |  |
| 2. NAME OF OPERATOR<br>Plains Petroleum Operating Company                                                                                                                                                                                                                                                                                                                                     |  | 7. UNIT AGREEMENT NAME                                                                                                                                                                                   |  |
| 3. ADDRESS OF OPERATOR<br>415 W. Wall, Suite 1000, Midland, Texas 79701                                                                                                                                                                                                                                                                                                                       |  | 8. FARM OR LEASE NAME<br>Bluitt 13 Federal                                                                                                                                                               |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface 1980' FS & WL, Sec 13, T8S, R37E, Unit Letter K<br>At top prod. interval reported below SAME<br>At total depth SAME                                                                                                                                                                |  | 9. WELL NO.<br>11                                                                                                                                                                                        |  |
| 14. PERMIT NO.                                                                                                                                                                                                                                                                                                                                                                                |  | DATE ISSUED                                                                                                                                                                                              |  |
| 15. DATE STUDDERED<br>10-6-94                                                                                                                                                                                                                                                                                                                                                                 |  | 16. DATE T.D. REACHED<br>10-6-94                                                                                                                                                                         |  |
| 17. DATE COMPL. (Ready to prod)<br>10-28-94                                                                                                                                                                                                                                                                                                                                                   |  | 18. ELEVATIONS (OF RKB, RT, GR, ETC.)*<br>3997.5 GL                                                                                                                                                      |  |
| 19. ELEV. CASINGHEAD                                                                                                                                                                                                                                                                                                                                                                          |  | 10. FIELD AND POOL, OR WILDCAT<br>Bluitt San Andres Assoc.                                                                                                                                               |  |
| 20. TOTAL DEPTH, MD & TVD<br>4800'                                                                                                                                                                                                                                                                                                                                                            |  | 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA<br>Sec. 13, T8S, R37E                                                                                                                                  |  |
| 21. PLUG BACK T.D., MD & TVD<br>4610'                                                                                                                                                                                                                                                                                                                                                         |  | 12. COUNTY OR PARISH<br>Roosevelt                                                                                                                                                                        |  |
| 22. IF MULTIPLE COMPL., HOW MANY*                                                                                                                                                                                                                                                                                                                                                             |  | 13. STATE<br>NM                                                                                                                                                                                          |  |
| 23. INTERVALS DRILLED BY<br>ROTARY TOOLS<br>CABLE TOOLS                                                                                                                                                                                                                                                                                                                                       |  | 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br>4504'-4564' San Andres P1                                                                                               |  |
| 25. WAS DIRECTIONAL SURVEY MADE                                                                                                                                                                                                                                                                                                                                                               |  | 26. TYPE ELECTRIC AND OTHER LOGS RUN                                                                                                                                                                     |  |
| 27. WAS WELL CORED                                                                                                                                                                                                                                                                                                                                                                            |  | 28. CASING RECORD (Report all strings set in well)                                                                                                                                                       |  |
| 29. LINER RECORD                                                                                                                                                                                                                                                                                                                                                                              |  | 30. TUBING RECORD                                                                                                                                                                                        |  |
| 31. PERFORATION RECORD (Interval, size and number)<br>4504, 05, 11, 18, 19, 20, 25, 27, 28, 33, 60, 63, 64                                                                                                                                                                                                                                                                                    |  | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.<br>DEPTH INTERVAL (MD)<br>4504-64<br>4504-64<br>AMOUNT AND KIND OF MATERIAL USED<br>550 gal 15% NEFE HCl<br>13,500 gal 30# gel & 21,000# 20/40 & 16/30 sd |  |
| 33. PRODUCTION<br>DATE FIRST PRODUCTION<br>10-28-94<br>PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)<br>Flowing<br>WELL STATUS (Producing or shut-in)<br>Producing<br>DATE OF TEST<br>11-7-94<br>HOURS TESTED<br>24<br>CHOKE SIZE<br>14<br>PROD N. FOR TEST PERIOD<br>OIL—BSL.<br>0<br>GAS—MCF.<br>1045<br>WATER—BSL.<br>0<br>GAS-OIL RATIO<br>OIL GRAVITY-API (CORR.) |  | 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br>Sold<br>TEST WITNESSED BY                                                                                                                  |  |
| 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>Stephen D. Owen</u>                                                                                                                                                                                                                                                                                                                                                                 |  | TITLE <u>Area Engineer</u> DATE <u>11-15-94</u>                                                                                                                                                          |  |

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

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, flowing and shut-in pressures, and recoveries):

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | TOP         |                  |
|-----------|-----|--------|-----------------------------|------|-------------|------------------|
|           |     |        |                             |      | MEAS. DEPTH | TRUE VERT. DEPTH |
|           |     |        |                             |      |             |                  |

38. GEOLOGIC MARKERS

Submit in duplicate to  
appropriate district office  
See Rule 401 & Rule 1122

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-122  
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

|                                                                                                                        |  |                               |  |                                                  |  |                                                       |  |
|------------------------------------------------------------------------------------------------------------------------|--|-------------------------------|--|--------------------------------------------------|--|-------------------------------------------------------|--|
| Operator <u>Plains Petroleum Operating Company</u>                                                                     |  |                               |  | Lease or Unit Name <u>Bluitt San Andres Unit</u> |  |                                                       |  |
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |  |                               |  | Test Date <u>11/10/94</u>                        |  | Well No. <u>1311</u>                                  |  |
| Completion Date                                                                                                        |  | Total Depth                   |  | Plug Back TD                                     |  | Elevation                                             |  |
| Csg. Size                                                                                                              |  | Wt. d                         |  | Set At                                           |  | Perforations:                                         |  |
|                                                                                                                        |  |                               |  |                                                  |  | From: <u>4504</u> To: <u>4564</u>                     |  |
| Tbg. Size                                                                                                              |  | Wt. d                         |  | Set At                                           |  | Perforations:                                         |  |
| <u>2 3/8</u>                                                                                                           |  | <u>4.7</u>                    |  | <u>4416</u>                                      |  | From: To:                                             |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple                                                                |  |                               |  | Packer Set At                                    |  | Formation <u>San Andres</u>                           |  |
| Producing Thru Tubing                                                                                                  |  | Reservoir Temp. °F <u>114</u> |  | Mean Annual Temp. °F <u>60</u>                   |  | Baro. Press - P <sub>a</sub> <u>13.2</u>              |  |
| L <u>4416</u>                                                                                                          |  | H <u>4416</u>                 |  | Gg <u>0.7364</u>                                 |  | % CO <sub>2</sub> % N <sub>2</sub> % H <sub>2</sub> S |  |
|                                                                                                                        |  |                               |  |                                                  |  | Prover <u>Pos. Choke</u>                              |  |
|                                                                                                                        |  |                               |  |                                                  |  | Meter Run Taps                                        |  |

| FLOW DATA |                        |   |                 |                    |                         | TUBING DATA |                    | CASING DATA |                    | Duration<br>of<br>Flow |             |
|-----------|------------------------|---|-----------------|--------------------|-------------------------|-------------|--------------------|-------------|--------------------|------------------------|-------------|
| NO.       | Prover<br>Line<br>Size | X | Orifice<br>Size | Press.<br>p.s.i.g. | Diff.<br>h <sub>w</sub> | Temp.<br>°F | Press.<br>p.s.i.g. | Temp.<br>°F | Press.<br>p.s.i.g. |                        | Temp.<br>°F |
| SI        |                        |   |                 | 1218               |                         | 40          | 1218               | 40          |                    |                        | 72          |
| 1.        |                        |   | 12/64           | 1060               |                         | 60          | 1060               | 60          |                    |                        | 1           |
| 2.        |                        |   | 14/64           | 1030               |                         | 61          | 1030               | 61          |                    |                        |             |
| 3.        |                        |   | 16/64           | 1010               |                         | 64          | 1010               | 64          |                    |                        |             |
| 4.        |                        |   | 32/64           | 852                |                         | 67          | 852                | 67          |                    |                        |             |
| 5.        |                        |   |                 |                    |                         |             |                    |             |                    |                        |             |

| RATE OF FLOW CALCULATIONS |                       |           |                         |                       |                    |                                         |                      |
|---------------------------|-----------------------|-----------|-------------------------|-----------------------|--------------------|-----------------------------------------|----------------------|
| NO.                       | COEFFICIENT (24 HOUR) | $h_w P_m$ | Pressure P <sub>m</sub> | Flow Temp. Factor Ft. | Gravity Factor Fg. | Super Compress. Factor, F <sub>pv</sub> | Rate of Flow Q, Mcfd |
| 1.                        | 0.6101                |           | 1073.2                  | 1.0000                | 1.165              | 1.166                                   | 889                  |
| 2.                        | 0.3419                |           | 1043.2                  | 0.9990                | 1.165              | 1.159                                   | 1185                 |
| 3.                        | 1.112                 |           | 1023.2                  | 0.9962                | 1.165              | 1.151                                   | 1520                 |
| 4.                        | 2.162                 |           | 865.2                   | 0.9933                | 1.165              | 1.120                                   | 2424                 |
| 5.                        |                       |           |                         |                       |                    |                                         |                      |

| NO. | P <sub>r</sub> | Temp. °R | T <sub>r</sub> | Z     | Gas Liquid Hydrocarbon Ratio          | Mcf/bbl.      |
|-----|----------------|----------|----------------|-------|---------------------------------------|---------------|
| 1.  | 1.607          | 520      | 1.297          | 0.735 | A.P. I Gravity of Liquid Hydrocarbons | Deg.          |
| 2.  | 1.562          | 521      | 1.299          | 0.744 | Specific Gravity Separator Gas        | <u>0.7364</u> |
| 3.  | 1.532          | 524      | 1.307          | 0.755 | Specific Gravity Flowing Fluid        | <u>XXXXXX</u> |
| 4.  | 1.295          | 527      | 1.314          | 0.797 | Critical Pressure                     | <u>663</u>    |
| 5.  |                |          |                |       | Critical Temperature                  | <u>401</u>    |

| NO. | P <sub>t</sub> | P <sub>w</sub> | P <sub>w</sub> <sup>2</sup> | P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> |
|-----|----------------|----------------|-----------------------------|-----------------------------------------------------------|
| 1.  | 1161           | 1348           | 111                         |                                                           |
| 2.  | 1131           | 1279           | 180                         |                                                           |
| 3.  | 1114           | 1241           | 218                         |                                                           |
| 4.  | 981            | 964            | 495                         |                                                           |
| 5.  |                |                |                             |                                                           |

Absolute Open Flow 5006 Mcfd @ 15.025 Angle of Slope  $\theta$  56.14 deg Slope, n 0.571

Remarks: Pressure calculations based on BHP instrument data.

Approved By Division \_\_\_\_\_ Conducted By: Subsurface Well Testing Calculated By: John McDermott Checked By: \_\_\_\_\_

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10 11 1985

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OFFICE

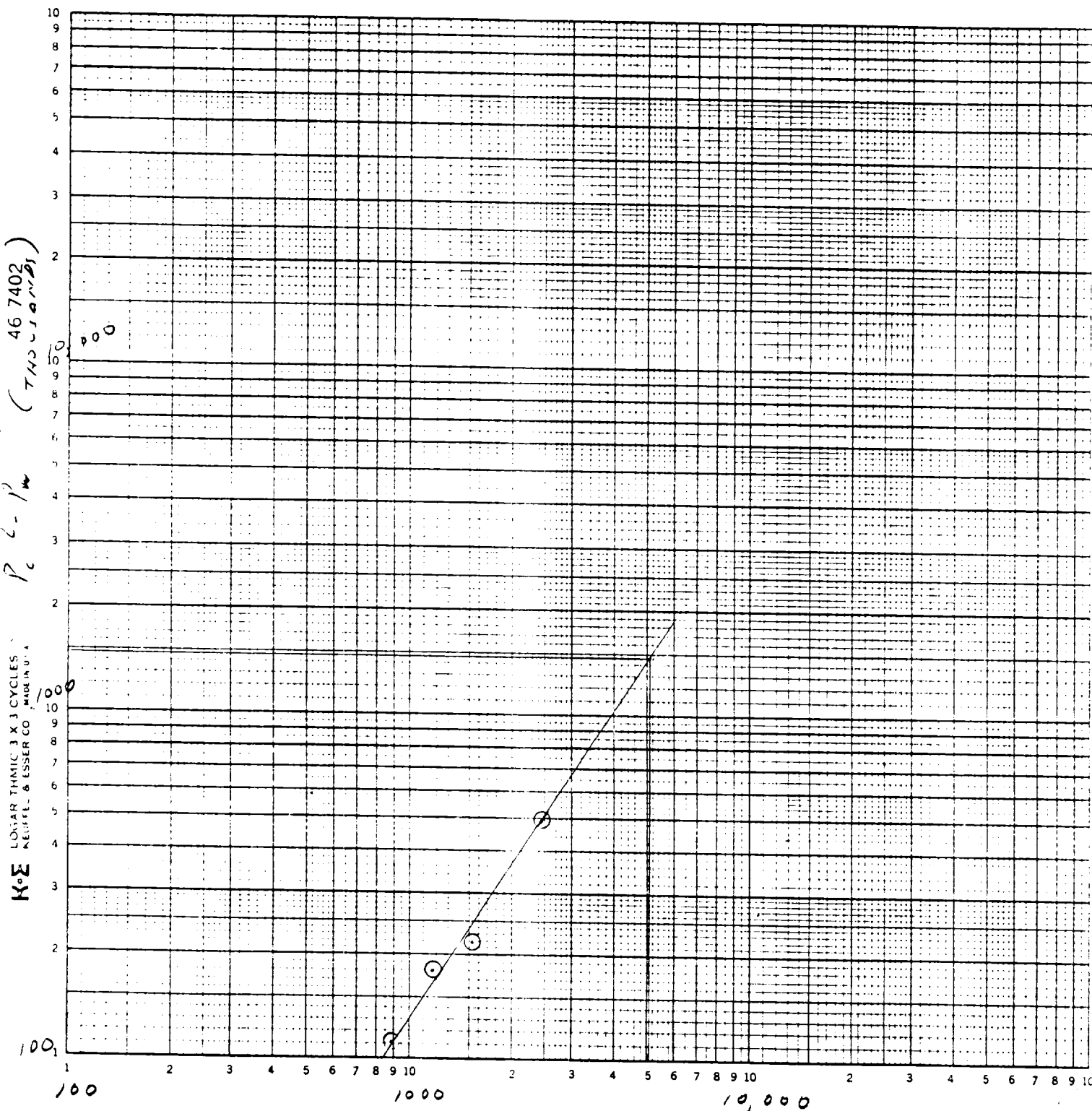
Well 1311

11/10/94

467402  
(THD 10/10/94)

$P_c - P_w$

LOGARITHMIC 3 X 3 CYCLES  
NEUFEL & ESSER CO. MADE IN U.S.A.



$Q$  (MCFD)

$\eta = 0.671$