

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONTACT LIVING  
OFFICE FOR NUMBER  
OF COPIES REQUIRED  
(See other instructions on  
reverse side)

BLM Roswell District  
Modified Form No.  
NM060-3160-3

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

| 1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> Other _____                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           | 5. LEASE DESIGNATION AND SERIAL NO.<br><b>LC-054668</b>                                  |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------|---------------------|----------------------------------|----------------|-----------------|------------------|---------------------------------------------------------------------------|----------------|-----------------|--------|---------|-------------------|--|--------|--------|-------|--------|-------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b. TYPE OF COMPLETION: NEW WELL <input type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> DIFF. RESER. <input checked="" type="checkbox"/> Other _____                                                                                                                                                                                                                                                                                                   |                                                                           | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                                     |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. NAME OF OPERATOR<br><b>Meridian Oil Inc.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           | 7. UNIT AGREEMENT NAME                                                                   |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3. ADDRESS OF OPERATOR<br><b>21 Desta Dr., Midland, TX 79705</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           | 8. FARM OR LEASE NAME<br><b>Farnsworth "4"</b>                                           |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3a. AREA CODE & PHONE NO.<br><b>915-686-5600</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           | 9. WELL NUMBER<br><b>11</b>                                                              |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*<br>At surface <b>480' FNL &amp; 990' FWL</b><br>At top prod. interval reported below <b>Same</b><br>At total depth <b>Same</b>                                                                                                                                                                                                                                                                                                               |                                                                           | 10. FIELD AND POOL, OR WILDCAT<br><b>Rhodes (Yates, 7 Rivers)</b>                        |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA<br><b>Sec. 4, T26S, R37E</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                           | 12. COUNTY OR PARISH<br><b>Lea</b>                                                       |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13. STATE<br><b>NM</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           | 14. PERMIT NO.                                                                           |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15. DATE SPUDED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           | DATE ISSUED<br><b>8/14/90</b>                                                            |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16. DATE T.D. REACHED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                           | 17. DATE COMPL. (Ready to prod.)<br><b>2/05/91 (Plug Back)</b>                           |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*<br><b>2999' GR.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                           | 19. ELEV. CASINGHEAD<br><b>2999'</b>                                                     |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20. TOTAL DEPTH, MD & TVD<br><b>3289'</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           | 21. PLUG BACK T.D., MD & TVD<br><b>3050'</b>                                             |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22. IF MULTIPLE COMPL. HOW MANY* <b>N.A.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           | 23. INTERVALS DRILLED BY<br><b>0-TD</b>                                                  |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24. PRODUCING INTERVAL (S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*<br><b>2644'-2920' Yates</b>                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                           | 25. WAS DIRECTIONAL SURVEY MADE<br><b>No</b>                                             |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26. TYPE ELECTRIC AND OTHER LOGS RUN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           | 27. WAS WELL CORED<br><b>No</b>                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28. CASING RECORD (Report all strings set in well)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1"><thead><tr><th>CASING SIZE</th><th>WEIGHT, LB./FT.</th><th>DEPTH SET (MD)</th><th>HOLE SIZE</th><th>CEMENTING RECORD</th><th>AMOUNT PULLED</th></tr></thead><tbody><tr><td>8-5/8"</td><td>24</td><td>331'</td><td>12-1/4"</td><td>300 sx-Circulated</td><td></td></tr><tr><td>5-1/2"</td><td>14</td><td>3289'</td><td>7-7/8"</td><td>300 sx--TOC 2260'</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table> |                                                                           |                                                                                          |                                                   | CASING SIZE         | WEIGHT, LB./FT.                  | DEPTH SET (MD) | HOLE SIZE       | CEMENTING RECORD | AMOUNT PULLED                                                             | 8-5/8"         | 24              | 331'   | 12-1/4" | 300 sx-Circulated |  | 5-1/2" | 14     | 3289' | 7-7/8" | 300 sx--TOC 2260' |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CASING SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WEIGHT, LB./FT.                                                           | DEPTH SET (MD)                                                                           | HOLE SIZE                                         | CEMENTING RECORD    | AMOUNT PULLED                    |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8-5/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24                                                                        | 331'                                                                                     | 12-1/4"                                           | 300 sx-Circulated   |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5-1/2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 14                                                                        | 3289'                                                                                    | 7-7/8"                                            | 300 sx--TOC 2260'   |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29. LINER RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30. TUBING RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1"><thead><tr><th>SIZE</th><th>TOP (MD)</th><th>BOTTOM (MD)</th><th>SACKS CEMENT*</th><th>SCREEN (MD)</th><th>SIZE</th><th>DEPTH SET (MD)</th><th>PACKER SET (MD)</th></tr></thead><tbody><tr><td>2-7/8"</td><td></td><td></td><td></td><td></td><td>2-7/8"</td><td>2650'</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>                                             |                                                                           |                                                                                          |                                                   | SIZE                | TOP (MD)                         | BOTTOM (MD)    | SACKS CEMENT*   | SCREEN (MD)      | SIZE                                                                      | DEPTH SET (MD) | PACKER SET (MD) | 2-7/8" |         |                   |  |        | 2-7/8" | 2650' |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | TOP (MD)                                                                  | BOTTOM (MD)                                                                              | SACKS CEMENT*                                     | SCREEN (MD)         | SIZE                             | DEPTH SET (MD) | PACKER SET (MD) |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2-7/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                           |                                                                                          |                                                   |                     | 2-7/8"                           | 2650'          |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31. PERFORATION RECORD (Interval, size, and number)<br><b>2644'-2920' 60 holes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.<br><table border="1"><thead><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr></thead><tbody><tr><td>3050'</td><td>Set CIBP (9/83)</td></tr><tr><td>2643'-2920'</td><td>4000 gal 7-1/2% HCl; frac w/39.8M gal 65% foam &amp; 94.9M# 12/20 Brady sand.</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>                                                                                                                          |                                                                           |                                                                                          |                                                   | DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED | 3050'          | Set CIBP (9/83) | 2643'-2920'      | 4000 gal 7-1/2% HCl; frac w/39.8M gal 65% foam & 94.9M# 12/20 Brady sand. |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DEPTH INTERVAL (MD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | AMOUNT AND KIND OF MATERIAL USED                                          |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3050'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Set CIBP (9/83)                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2643'-2920'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4000 gal 7-1/2% HCl; frac w/39.8M gal 65% foam & 94.9M# 12/20 Brady sand. |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 33.* PRODUCTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE OF FIRST PRODUCTION<br><b>2/05/91</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                           | PRODUCTION METHOD (Flowing, gas lift, pumping- size and type of pump)<br><b>Gas well</b> |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DATE OF TEST<br><b>2/11/91</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                           | WELL STATUS (Producing or shut-in)<br><b>Producing</b>                                   |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HOURS TESTED<br><b>1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CHOKE SIZE                                                                | PROD'N. FOR TEST PERIOD<br><b>DRY GAS</b>                                                | OIL - BBL.<br><b>DRY GAS</b>                      |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          | GAS - MCF.<br><b>682 mcf</b>                      |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          | WATER - BBL.<br><b>0.4</b>                        |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          | GAS - OIL RATIO<br><b>N.A.</b>                    |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FLOW. TUBING PRESS.<br><b>108</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CASING PRESSURE<br><b>123</b>                                             | CALCULATED 24 HOUR RATE<br><b>DRY GAS</b>                                                | GAS - MCF.<br><b>682 mcf</b>                      |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          | WATER - BBL.<br><b>2.8</b>                        |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           |                                                                                          | OIL GRAVITY - API (CORR.)<br><b>N.A.</b>          |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br><b>Sold</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                           |                                                                                          | TEST WITNESSED BY<br><b>John West Engineering</b> |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 35. LIST OF ATTACHMENTS<br><b>C-104, C-122, Plat</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                           |                                                                                          |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SIGNED <u>Robert L. Bradshaw</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                           | TITLE <u>Sr. Staff Env./Reg. Spec.</u>                                                   |                                                   |                     |                                  |                |                 |                  |                                                                           |                |                 |        |         |                   |  |        |        |       |        |                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                           | DATE <u>28 February '91</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, time tool open, flowing and shut-in pressures, and recoveries). |     |        |                             |                            | 38. GEOLOGIC MARKERS    |                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------|-----------------------------|----------------------------|-------------------------|------------------|--|
| FORMATION                                                                                                                                                                                                                                          | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME                       | MEAS. DEPTH             | TRUE VERT. DEPTH |  |
|                                                                                                                                                                                                                                                    |     |        |                             | Yates<br>7 Rivers<br>Queen | 2614'<br>2857'<br>3212' |                  |  |

MAR 1 1961

200 1000

NEW MEXICO OIL CONSERVATION COMMISSION  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST, FOR GAS WELL

Form C-122  
Revised 9-1-65

|                                                                                                                        |         |                    |                         |                                 |                       |                                    |                 |                                  |  |
|------------------------------------------------------------------------------------------------------------------------|---------|--------------------|-------------------------|---------------------------------|-----------------------|------------------------------------|-----------------|----------------------------------|--|
| Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special |         |                    |                         |                                 |                       | Test Date 2/11/91                  |                 |                                  |  |
| Company Meridian Oil Inc.                                                                                              |         |                    |                         | Connection EPG (Report by)      |                       |                                    |                 | Sid Richardson Carbon & Gasoline |  |
| Pool Rhodes                                                                                                            |         |                    |                         | Formation Yates 7 Rivers        |                       |                                    |                 | Unit                             |  |
| Completion Date 2/5/91                                                                                                 |         | Total Depth 3289   |                         | Plug Back TD 3050               |                       | Elevation                          |                 | Farm or Lease Name Farnsworth 4  |  |
| Csq. Size 5 1/2                                                                                                        | Wt. 14  | d                  | Set At 3289             | Perforations: From 2643 To 2920 |                       | Well No. 11                        |                 |                                  |  |
| Tbg. Size 2 7/8                                                                                                        | Wt. 6.5 | d 2.441            | Set At 2650             | Perforations: From Open To End  |                       | Unit Sec. Twp. Rge. D 4 26S 37E    |                 |                                  |  |
| Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single                                                         |         |                    |                         |                                 |                       | Packer Set At None                 |                 | County Lea                       |  |
| Producing Thru Tbs.                                                                                                    |         | Reservoir Temp. °F |                         | Mean Annual Temp. °F 60         |                       | Baro. Press. - P <sub>g</sub> 13.2 |                 | State NM                         |  |
| L 2650                                                                                                                 | H 2650  | Gg .826            | % CO <sub>2</sub> 15.79 | % N <sub>2</sub> 1.02           | % H <sub>2</sub> S -- | Prover                             | Meter Run 2.067 | Taps Flg.                        |  |

| FLOW DATA |                  |   |              |                 |                      |          | TUBING DATA     |          | CASING DATA     |          | Duration of Flow |
|-----------|------------------|---|--------------|-----------------|----------------------|----------|-----------------|----------|-----------------|----------|------------------|
| NO.       | Prover Line Size | x | Orifice Size | Press. p.s.i.g. | Diff. h <sub>w</sub> | Temp. °F | Press. p.s.i.g. | Temp. °F | Press. p.s.i.g. | Temp. °F |                  |
| SI        |                  |   |              |                 |                      |          | 136             |          | 139             |          | 24 Hrs.          |
| 1.        | 2                | x | 1.375        | 20              | 10.24                | 60       | 133             |          | 137             |          | 1 Hr.            |
| 2.        | 2                | x | 1.375        | 22              | 23.04                | 61       | 129             |          | 135             |          | 1 Hr.            |
| 3.        | 2                | x | 1.375        | 23              | 50.41                | 62       | 123             |          | 134             |          | 1 Hr.            |
| 4.        | 2                | x | 1.375        | 24              | 86.50                | 63       | 118             |          | 130             |          | 1 Hr.            |
| 5.        | 2                | x | 1.375        | 25              | 98.01                | 63       | 108             |          | 123             |          | 1 Hr.            |

| RATE OF FLOW CALCULATIONS |                       |                  |                         |                       |                   |                                         |                      |
|---------------------------|-----------------------|------------------|-------------------------|-----------------------|-------------------|-----------------------------------------|----------------------|
| NO.                       | Coefficient (24 Hour) | $\sqrt{h_w P_m}$ | 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                         | 10.20                 | 18.44            | 33.2                    | 1.000                 | 1.100             | 1.005                                   | 208                  |
| 2                         | 10.20                 | 28.48            | 35.2                    | .9990                 | 1.100             | 1.005                                   | 321                  |
| 3                         | 10.20                 | 42.72            | 36.2                    | .9887                 | 1.100             | 1.005                                   | 476                  |
| 4                         | 10.20                 | 56.73            | 37.2                    | .9877                 | 1.100             | 1.005                                   | 632                  |
| 5                         | 10.20                 | 61.19            | 38.2                    | .9877                 | 1.100             | 1.005                                   | 682                  |

| NO. | P <sub>t</sub> | Temp. °R | T <sub>r</sub> | Z    | Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl. | A.P.I. Gravity of Liquid Hydrocarbons Dry Deg. | Specific Gravity Separator Gas .826 | Specific Gravity Flowing Fluid X X X X X | Critical Pressure *730 P.S.I.A. | Critical Temperature *402 °R |
|-----|----------------|----------|----------------|------|-----------------------------------------------|------------------------------------------------|-------------------------------------|------------------------------------------|---------------------------------|------------------------------|
| 1.  | .04            | 520      | 1.29           | .990 |                                               |                                                |                                     |                                          |                                 |                              |
| 2.  | .04            | 521      | 1.29           | .990 |                                               |                                                |                                     |                                          |                                 |                              |
| 3.  | .04            | 522      | 1.29           | .990 |                                               |                                                |                                     |                                          |                                 |                              |
| 4.  | .05            | 523      | 1.30           | .991 |                                               |                                                |                                     |                                          |                                 |                              |
| 5.  | .05            | 523      | 1.30           | .991 |                                               |                                                |                                     |                                          |                                 |                              |

|                      |                                  |                                                                                                       |                             |                                                           |
|----------------------|----------------------------------|-------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------------------------|
| P <sub>c</sub> 152.2 | P <sub>c</sub> <sup>2</sup> 23.2 | $(1) \frac{P_c^2}{P_c^2 - P_w^2} = 19.333$ $(2) \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7.253$ |                             |                                                           |
| NO                   | P <sub>t</sub> <sup>2</sup>      | 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                    |                                  | 150.2                                                                                                 | 22.6                        | .6                                                        |
| 2                    |                                  | 148.2                                                                                                 | 22.0                        | 1.2                                                       |
| 3                    |                                  | 147.2                                                                                                 | 21.7                        | 1.5                                                       |
| 4                    |                                  | 143.2                                                                                                 | 20.5                        | 2.7                                                       |
| 5                    |                                  | 136.2                                                                                                 | 18.6                        | 4.6                                                       |

$$AOF = Q \left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.328$$

|                                        |                     |               |
|----------------------------------------|---------------------|---------------|
| Absolute Open Flow 2,328 Mcfd @ 15.025 | Angle of Slope 56.2 | Slope, n .669 |
|----------------------------------------|---------------------|---------------|

Remarks: Well produced 1 bbl. H<sub>2</sub>O during test.  
Corrected to 15.79% CO<sub>2</sub> & 1.02% N<sub>2</sub>

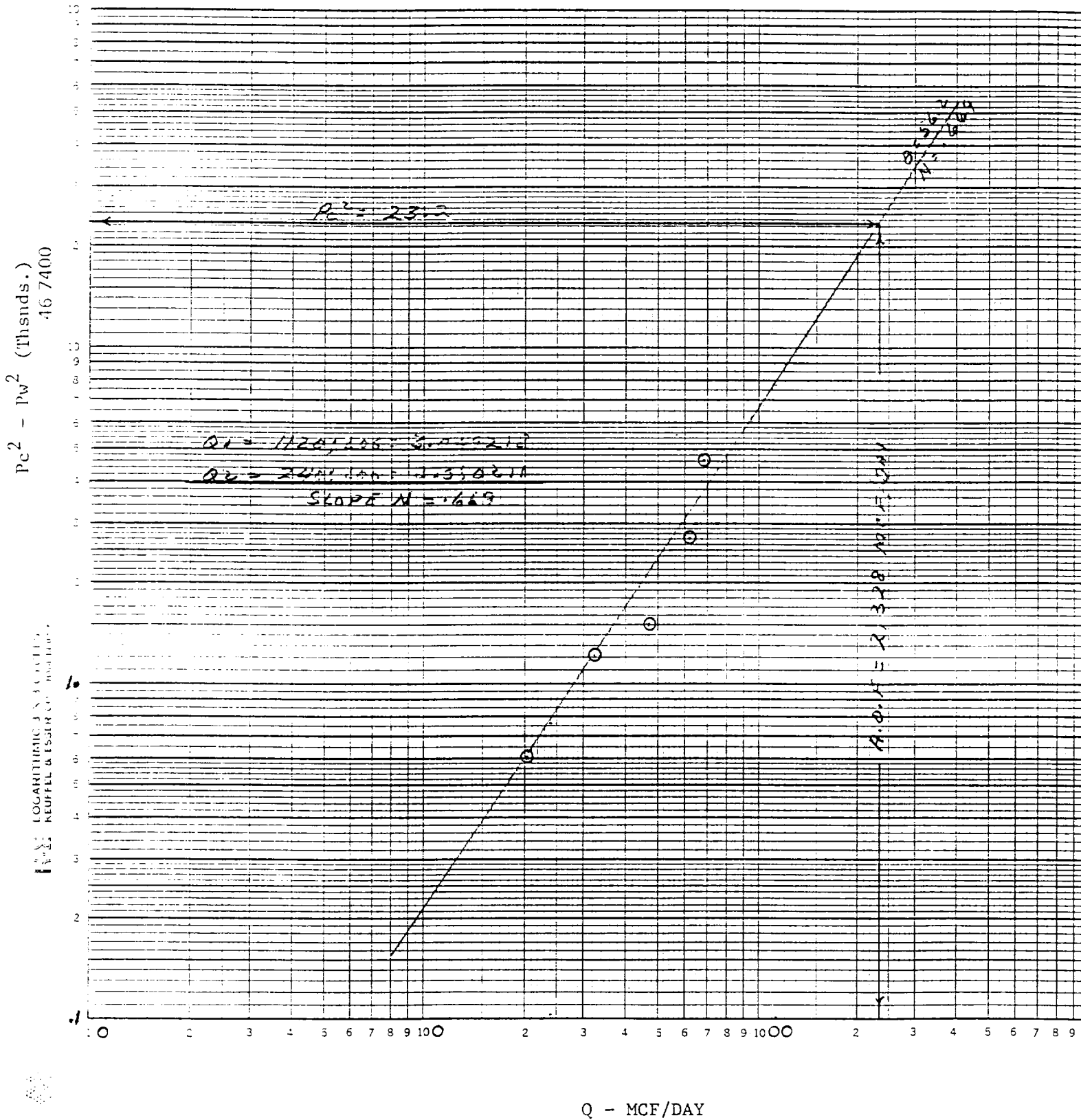
**MAR 6 1991**

|                        |                                     |                   |                |
|------------------------|-------------------------------------|-------------------|----------------|
| Approved By Commission | Conducted By: John West Engineering | Calculated By: BM | Checked By: BM |
|------------------------|-------------------------------------|-------------------|----------------|

MERIDIAN OIL INC.  
Farnsworth 4 No. 11

D - 4 - 26S - 37E  
Lea County, NM

2-11-91





## Laboratory Services

1331 Tasker Drive  
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: John West Engineering  
Attention: Mr. Buz Thomason  
412 N. Dal Paso  
Hobbs, New Mexico 88240

SAMPLE  
IDENTIFICATION: Farnsworth 4 #11  
COMPANY: Meridian Oil Inc.  
LEASE:  
PLANT:

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|              |                         |              |               |
|--------------|-------------------------|--------------|---------------|
| SAMPLE DATA: | DATE SAMPLED:           | GAS (XX)     | LIQUID ( )    |
|              | ANALYSIS DATE: 02-11-91 | SAMPLED BY:  | West Eng.     |
|              | PRESSURE - PSIG 60.00   | ANALYSIS BY: | Rolland Perry |
|              | SAMPLE TEMP. °F         |              |               |
|              | ATMOS. TEMP. °F         |              |               |

REMARKS:

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### COMPONENT ANALYSIS

| COMPONENT              | MOL<br>PERCENT | GPM            |         |
|------------------------|----------------|----------------|---------|
| Oxygen (O2)            |                |                |         |
| Hydrogen Sulfide (H2S) |                |                |         |
| Nitrogen (N2)          | 1.02           |                |         |
| Carbon Dioxide (CO2)   | 15.79          |                |         |
| Methane (C1)           | 70.38          |                |         |
| Ethane (C2)            | 6.36           | 1.696          |         |
| Propane (C3)           | 3.54           | 0.974          |         |
| I-Butane (IC4)         | 0.62           | 0.201          |         |
| N-Butane (NC4)         | 1.19           | 0.374          |         |
| I-Pentane (IC5)        | 0.44           | 0.159          |         |
| N-Pentane (NC5)        | 0.20           | 0.072          |         |
| Hexane (C6)            | 0.46           | 0.189          |         |
| Heptanes Plus (C7+)    | 0.00           | 0.000          |         |
|                        | 100.00         | 3.665          |         |
| BTU/CU.FT. - DRY       | 1019           | MOLECULAR WT   | 23.9055 |
| AT 14.650 DRY          | 1016           |                |         |
| AT 14.650 WET          | 998            | 26# GASOLINE - | 0.545   |
| AT 15.025 DRY          | 1042           |                |         |
| AT 15.025 WET          | 1024           |                |         |
| SPECIFIC GRAVITY -     |                |                |         |
| CALCULATED             | 0.826          |                |         |
| MEASURED               | 0.000          |                |         |

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