

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

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 checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      | 2. LEASE DESIGNATION AND SERIAL NO.<br>NM-28699                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|----------------------------------------------------------------------|------------------------------------|-------------------------|------------------|-------------------------|-------------------------|--------------------|----------|---------------------------|----------------|----|--------|---------|-------|--------|-----------------|--|--|--|--|--|-----------------|--|--|--|--|--|----------------|--|
| 1. TYPE OF COMPLETION:<br>NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. CENVR. <input type="checkbox"/> Other _____                                                                                                                                                                                                                                                                                                                                             |                                                                      | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                                                       |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 2. NAME OF OPERATOR<br>Amoco Production Company                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      | 7. UNIT AGREEMENT NAME                                                                                     |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 3. ADDRESS OF OPERATOR<br>2325 E. 30th Street, Farmington, NM 87401                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                      | 8. FARM OR LEASE NAME<br>Southern Union Federal Com                                                        |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)<br>At surface 1650' FNL x 1650' FWL<br>At top prod. interval reported below Same<br>At total depth Same                                                                                                                                                                                                                                                                                                                                                                         |                                                                      | 9. WELL NO.<br>1                                                                                           |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 14. PERMIT NO.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      | DATE ISSUED                                                                                                |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 10. FIELD AND POOL, OR WILDCAT<br>Regina Gallup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      | 11. SEC. T. R. M. OR BLOCK AND SURVEY<br>SENW Sec 36 T24N R1W                                              |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 15. DATE SPUDDED<br>7-20-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      | 16. DATE T.D. REACHED<br>8-9-88                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 17. DATE COMPL. (Ready to prod.)<br>10-14-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      | 18. ELEVATIONS (OF, ABE, AT, GR, ETC.)*<br>7230' KB                                                        |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 19. ELEV. CASINGHEAD<br>7217' GR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                      | 20. TOTAL DEPTH, MD & TVD<br>5981'                                                                         |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 21. PLUG. BACK T.D., MD & TVD<br>5924'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                      | 22. IF MULTIPLE COMPL. HOW MANY*                                                                           |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 23. INTERVAL DRILLED BY<br>O-TD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      | 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*<br>5496'-5876' Regina Gallup |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 25. WAS WELL CORED<br>No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      | 26. TYPE ELECTRIC AND OTHER LOGS RUN<br>DIGL-GR-SP-DIPMETER-CAL                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 27. 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>9-5/8"</td><td>32# K55</td><td>318'</td><td>12-1/4"</td><td>295 cf Class B</td><td></td></tr><tr><td>5-1/2"</td><td>55# K55</td><td>5981'</td><td>8-3/4"</td><td>1155 cf Class G</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>1162 cf Class B</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>118 cf Class B</td><td></td></tr></tbody></table> |                                                                      |                                                                                                            |                         | CASING SIZE           | WEIGHT, LB./FT.                                                      | DEPTH SET (MD)                     | HOLE SIZE               | CEMENTING RECORD | AMOUNT PULLED           | 9-5/8"                  | 32# K55            | 318'     | 12-1/4"                   | 295 cf Class B |    | 5-1/2" | 55# K55 | 5981' | 8-3/4" | 1155 cf Class G |  |  |  |  |  | 1162 cf Class B |  |  |  |  |  | 118 cf Class B |  |
| CASING SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | WEIGHT, LB./FT.                                                      | DEPTH SET (MD)                                                                                             | HOLE SIZE               | CEMENTING RECORD      | AMOUNT PULLED                                                        |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 9-5/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 32# K55                                                              | 318'                                                                                                       | 12-1/4"                 | 295 cf Class B        |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 5-1/2"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 55# K55                                                              | 5981'                                                                                                      | 8-3/4"                  | 1155 cf Class G       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      |                                                                                                            |                         | 1162 cf Class B       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      |                                                                                                            |                         | 118 cf Class B        |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 28. LINER 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></tr></thead><tbody><tr><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>                                                                                                                                                                                                                                                                                                                                                         |                                                                      |                                                                                                            |                         | SIZE                  | TOP (MD)                                                             | BOTTOM (MD)                        | SACKS CEMENT*           | SCREEN (MD)      |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | TOP (MD)                                                             | BOTTOM (MD)                                                                                                | SACKS CEMENT*           | SCREEN (MD)           |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 29. TUBING RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| <table border="1"><thead><tr><th>SIZE</th><th>DEPTH SET (MD)</th><th>PACKER SET (MD)</th></tr></thead><tbody><tr><td>2-7/8"</td><td>5757'</td><td></td></tr></tbody></table>                                                                                                                                                                                                                                                                                                                                                                                                |                                                                      |                                                                                                            |                         | SIZE                  | DEPTH SET (MD)                                                       | PACKER SET (MD)                    | 2-7/8"                  | 5757'            |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| SIZE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | DEPTH SET (MD)                                                       | PACKER SET (MD)                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 2-7/8"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 5757'                                                                |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 30. PERFORATION RECORD (Interval, size and number)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 5794'-5876', .46" dia, 164 holes, 2jspf<br>5496'-5663', .48" dia, 334 holes, 2jspf                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 31. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| <table border="1"><thead><tr><th>DEPTH INTERVAL (MD)</th><th>AMOUNT AND KIND OF MATERIAL USED</th></tr></thead><tbody><tr><td>5794'-5876'</td><td>85000 gal 30# gel</td></tr><tr><td></td><td>87800# 20-40 brady sand</td></tr><tr><td>5496'-5663'</td><td>158241 gal 30# gel</td></tr><tr><td></td><td>1448164# 20-40 brady sand</td></tr></tbody></table>                                                                                                                                                                                                                 |                                                                      |                                                                                                            |                         | DEPTH INTERVAL (MD)   | AMOUNT AND KIND OF MATERIAL USED                                     | 5794'-5876'                        | 85000 gal 30# gel       |                  | 87800# 20-40 brady sand | 5496'-5663'             | 158241 gal 30# gel |          | 1448164# 20-40 brady sand |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| DEPTH INTERVAL (MD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | AMOUNT AND KIND OF MATERIAL USED                                     |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 5794'-5876'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 85000 gal 30# gel                                                    |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 87800# 20-40 brady sand                                              |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 5496'-5663'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 158241 gal 30# gel                                                   |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1448164# 20-40 brady sand                                            |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 32. PRODUCTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
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| DATE FIRST PRODUCTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) | WELL STATUS (Producing or shut-in)                                                                         |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 10-14-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Pumping                                                              | Shut-in                                                                                                    |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| <table border="1"><thead><tr><th>DATE OF TEST</th><th>HOURS TESTED</th><th>CHOKE SIZE</th><th>PROD'N. FOR TEST PERIOD</th><th>OIL—BSL.</th><th>GAS—MCF.</th><th>WATER—BSL.</th><th>GAS-OIL RATIO</th></tr></thead><tbody><tr><td>12-27-88</td><td>24</td><td></td><td></td><td>5</td><td>10</td><td>3</td><td>2000</td></tr></tbody></table>                                                                                                                                                                                                                                |                                                                      |                                                                                                            |                         | DATE OF TEST          | HOURS TESTED                                                         | CHOKE SIZE                         | PROD'N. FOR TEST PERIOD | OIL—BSL.         | GAS—MCF.                | WATER—BSL.              | GAS-OIL RATIO      | 12-27-88 | 24                        |                |    | 5      | 10      | 3     | 2000   |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| DATE OF TEST                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | HOURS TESTED                                                         | CHOKE SIZE                                                                                                 | PROD'N. FOR TEST PERIOD | OIL—BSL.              | GAS—MCF.                                                             | WATER—BSL.                         | GAS-OIL RATIO           |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 12-27-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24                                                                   |                                                                                                            |                         | 5                     | 10                                                                   | 3                                  | 2000                    |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| <table border="1"><thead><tr><th>FLOW. TUBING PRESS.</th><th>CASING PRESSURE</th><th>CALCULATED 24-HOUR RATE</th><th>OIL—BSL.</th><th>GAS—MCF.</th><th>WATER—BSL.</th><th>OIL GRAVITY-API (CORR.)</th></tr></thead><tbody><tr><td>85</td><td>85</td><td></td><td>5</td><td>10</td><td>3</td><td></td></tr></tbody></table>                                                                                                                                                                                                                                                  |                                                                      |                                                                                                            |                         | FLOW. TUBING PRESS.   | CASING PRESSURE                                                      | CALCULATED 24-HOUR RATE            | OIL—BSL.                | GAS—MCF.         | WATER—BSL.              | OIL GRAVITY-API (CORR.) | 85                 | 85       |                           | 5              | 10 | 3      |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| FLOW. TUBING PRESS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CASING PRESSURE                                                      | CALCULATED 24-HOUR RATE                                                                                    | OIL—BSL.                | GAS—MCF.              | WATER—BSL.                                                           | OIL GRAVITY-API (CORR.)            |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 85                                                                   |                                                                                                            | 5                       | 10                    | 3                                                                    |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 33. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)<br>To be Sold                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 34. TEST WITNESSED BY<br>R.J. Candelaria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 35. LIST OF ATTACHMENTS<br>None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| 36. I hereby certify that the foregoing and attached information is complete and correct as furnished to the Bureau of Land Management records                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |
| SIGNED <u>R.S. Shaw</u> Admin. Supd. <u>JAN 30 1989</u> DATE <u>1-10-89</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      |                                                                                                            |                         |                       |                                                                      |                                    |                         |                  |                         |                         |                    |          |                           |                |    |        |         |       |        |                 |  |  |  |  |  |                 |  |  |  |  |  |                |  |

ACCEPTED FOR RECORD

\* (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):

| FORMATION     | TOP    | BOTTOM | DESCRIPTION, CONTENTS, ETC. |
|---------------|--------|--------|-----------------------------|
| CAULOP        | 5098   | TD     |                             |
| MANUEL        | 4452   | 5098   |                             |
| FLINT LOGGERS | 41210' | 4452   |                             |
| MENDEL        | 3982'  | 41210' |                             |
| CLIFFHOUSE    | 3660'  | 3982'  |                             |
| LEWIS         | 1515'  | 3660'  |                             |
| PERKINS       | 1470'  | 1515'  |                             |
| FEDERATION    | 1318'  | 1470'  |                             |
| OTO ALUMIN    | 1200'  | 1318'  |                             |

38. GEOLOGIC MARKERS

| NAME | TOP         |                  |
|------|-------------|------------------|
|      | MEAS. DEPTH | TRUE VERT. DEPTH |
|      |             |                  |