

| SCHLUMBERGER WELL SURVEYING CORPORATION<br>HOUSTON, TEXAS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|--|----------------------------------------------------------------|-----------|--|------|---------|---------------|------|--------------|---|---------------|------|--------------|------|--------------|------|---------------|------|----------------|------|-------------|------------|----------|----------|---------|-----|-----------|----|---------|-----------------|----------|------------------|----|-------------|-----------|--------------------------|---------------|-----|----------|--------|--|--|---------------|--------|-----------|------------|-------------|-------|------------|-----|
| GAMMA RAY - NEUTRON                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| COUNTY - Lea<br>FIELD or LOCATION - Denton<br>WELL - Pope # 18<br>COMPANY - Magnolia Petr. Co.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COMPANY - MAGNOLIA PETR. CO. |  | Location of Well<br>660' f SL<br>2180' f WL<br>Sec. 26-14S-37E |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | WELL - POPE # 18             |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FIELD - DENTON               |  | GRN<br>(LL-ML)                                                 |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | LOCATION - SEC. 26-14S-37E   |  | Elevation: D.F. 3818<br>K.B.<br>or G.L.                        |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | COUNTY - LEA                 |  | FILING No.                                                     |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| STATE - NEW MEXICO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| <table border="1"> <thead> <tr> <th colspan="2">RUN No. 1</th> </tr> </thead> <tbody> <tr><td>Date</td><td>7-17-53</td></tr> <tr><td>First Reading</td><td>9368</td></tr> <tr><td>Last Reading</td><td>0</td></tr> <tr><td>Feet Measured</td><td>9368</td></tr> <tr><td>Csg. Schlum.</td><td>4692</td></tr> <tr><td>Csg. Driller</td><td>4692</td></tr> <tr><td>Depth Reached</td><td>9369</td></tr> <tr><td>Bottom Driller</td><td>9373</td></tr> <tr><td>Depth Datum</td><td>1' Adv. RT</td></tr> <tr><td>Mud Nat.</td><td>Impermix</td></tr> <tr><td>Density</td><td>8.3</td></tr> <tr><td>Viscosity</td><td>48</td></tr> <tr><td>Resist.</td><td>58 @ 77 °F @ °F</td></tr> <tr><td>Res. BHT</td><td>28 @ 145 °F @ °F</td></tr> <tr><td>pH</td><td>5 @ °F @ °F</td></tr> <tr><td>Wtr. Loss</td><td>10 CC 30 min. CC 30 min.</td></tr> <tr><td>Max. Temp. °F</td><td>145</td></tr> <tr><td>Bit Size</td><td>6 3/4"</td></tr> <tr><td colspan="2"> </td></tr> <tr><td>Opr. Rig Time</td><td>4 Hrs.</td></tr> <tr><td>Truck No.</td><td>1160-Hobbs</td></tr> <tr><td>Recorded By</td><td>Scott</td></tr> <tr><td>Witness By</td><td>Upp</td></tr> </tbody> </table> |                              |  |                                                                | RUN No. 1 |  | Date | 7-17-53 | First Reading | 9368 | Last Reading | 0 | Feet Measured | 9368 | Csg. Schlum. | 4692 | Csg. Driller | 4692 | Depth Reached | 9369 | Bottom Driller | 9373 | Depth Datum | 1' Adv. RT | Mud Nat. | Impermix | Density | 8.3 | Viscosity | 48 | Resist. | 58 @ 77 °F @ °F | Res. BHT | 28 @ 145 °F @ °F | pH | 5 @ °F @ °F | Wtr. Loss | 10 CC 30 min. CC 30 min. | Max. Temp. °F | 145 | Bit Size | 6 3/4" |  |  | Opr. Rig Time | 4 Hrs. | Truck No. | 1160-Hobbs | Recorded By | Scott | Witness By | Upp |
| RUN No. 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 7-17-53                      |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| First Reading                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9368                         |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Last Reading                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                            |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Feet Measured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9368                         |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Csg. Schlum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4692                         |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Csg. Driller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4692                         |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Depth Reached                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 9369                         |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Bottom Driller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 9373                         |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Depth Datum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1' Adv. RT                   |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Mud Nat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Impermix                     |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Density                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8.3                          |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Viscosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 48                           |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Resist.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 58 @ 77 °F @ °F              |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Res. BHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 28 @ 145 °F @ °F             |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| pH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 5 @ °F @ °F                  |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Wtr. Loss                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 10 CC 30 min. CC 30 min.     |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Max. Temp. °F                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 145                          |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Bit Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6 3/4"                       |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Opr. Rig Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4 Hrs.                       |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Truck No.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1160-Hobbs                   |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Recorded By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Scott                        |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |
| Witness By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Upp                          |  |                                                                |           |  |      |         |               |      |              |   |               |      |              |      |              |      |               |      |                |      |             |            |          |          |         |     |           |    |         |                 |          |                  |    |             |           |                          |               |     |          |        |  |  |               |        |           |            |             |       |            |     |

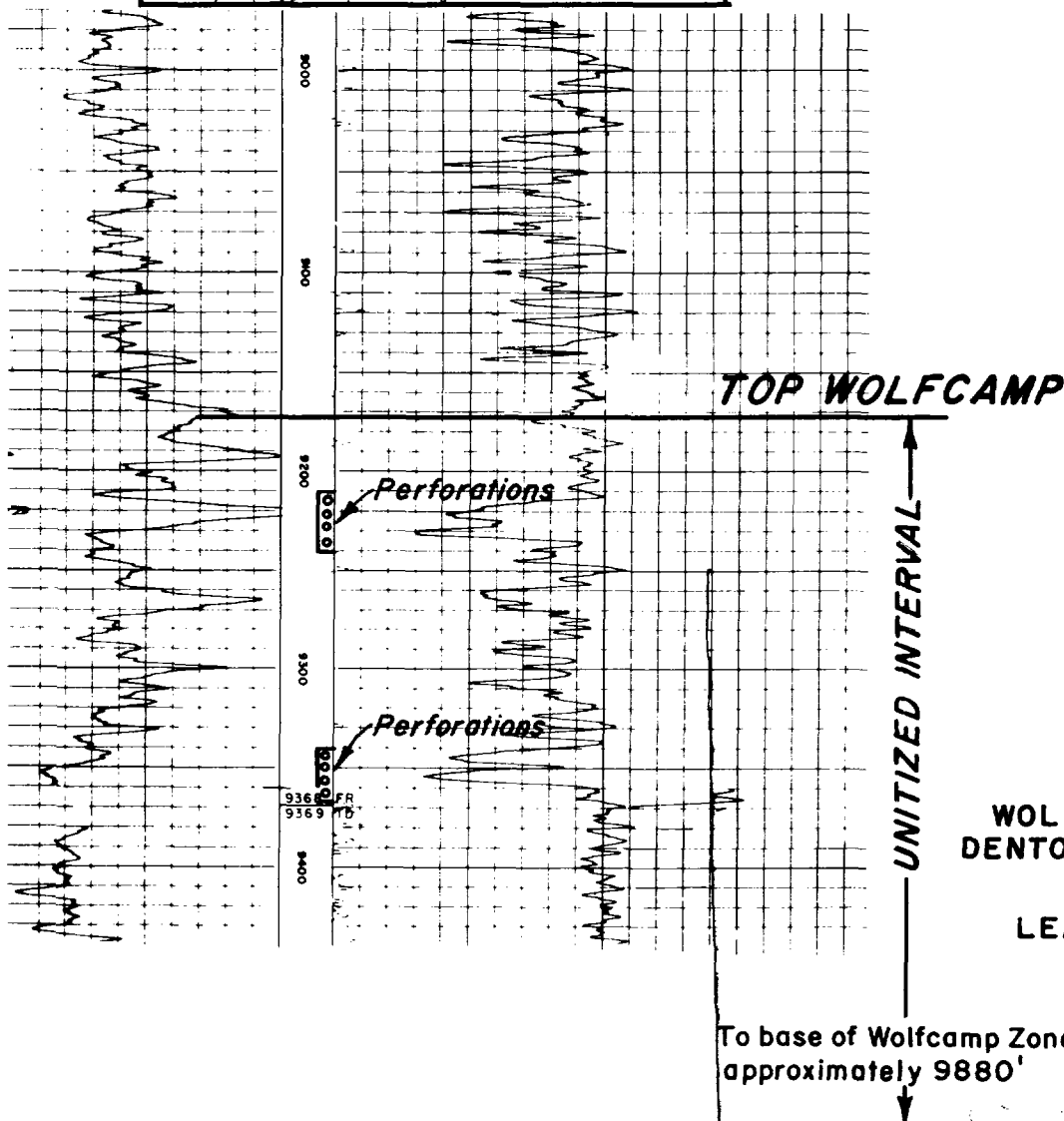


EXHIBIT 3  
TYPICAL LOG  
WOLFCAMP INJECTION WELL  
DENTON NORTH WOLFCAMP UNIT

LEA COUNTY, NEW MEXICO  
9-24-65