

P. O. BOX 1468  
 MONAHANS, TEXAS 79756  
 PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA  
 MIDLAND, TEXAS 79701  
 PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Joe Clements LABORATORY NO. 894146  
P.O. Box 515, Lovington, NM 88260 SAMPLE RECEIVED 8-16-94  
 RESULTS REPORTED 8-23-94

COMPANY Great Western Drilling Company LEASE As listed

FIELD OR POOL \_\_\_\_\_  
 SECTION \_\_\_\_\_ BLOCK \_\_\_\_\_ SURVEY \_\_\_\_\_ COUNTY Lea STATE NM

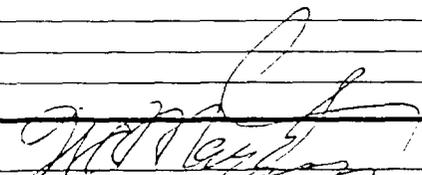
SOURCE OF SAMPLE AND DATE TAKEN:  
 NO. 1 Raw water - taken @ Bar 4 Dairy (8/10 mile west of carter battery).  
 NO. 2 Raw water - taken @ John Offutt home (8/10 mile north of carter battery).  
 NO. 3 Raw water - taken from ranch windmill (8/10 mile south of McQuien battery).  
 NO. 4 \_\_\_\_\_

REMARKS: Samples taken 8-16-94 by Tom Elrod, Martin Water Laboratories, Inc.

| CHEMICAL AND PHYSICAL PROPERTIES     |        |        |        |       |
|--------------------------------------|--------|--------|--------|-------|
|                                      | NO. 1  | NO. 2  | NO. 3  | NO. 4 |
| Specific Gravity at 60° F.           | 1.0018 | 1.0020 | 1.0018 |       |
| pH When Sampled                      |        |        |        |       |
| pH When Received                     | 7.24   | 7.28   | 7.27   |       |
| Bicarbonate as HCO <sub>3</sub>      | 205    | 205    | 176    |       |
| Supersaturation as CaCO <sub>3</sub> |        |        |        |       |
| Undersaturation as CaCO <sub>3</sub> |        |        |        |       |
| Total Hardness as CaCO <sub>3</sub>  | 256    | 312    | 212    |       |
| Calcium as Ca                        | 70     | 85     | 58     |       |
| Magnesium as Mg                      | 19     | 24     | 17     |       |
| Sodium and/or Potassium              | 50     | 45     | 99     |       |
| Sulfate as SO <sub>4</sub>           | 105    | 102    | 104    |       |
| Chloride as Cl                       | 62     | 97     | 125    |       |
| Iron as Fe                           | 0.04   | 0.04   | 0.04   |       |
| Barium as Ba                         |        |        |        |       |
| Turbidity, Electric                  |        |        |        |       |
| Color as Pt                          |        |        |        |       |
| Total Solids, Calculated             | 513    | 558    | 578    |       |
| Temperature °F                       |        |        |        |       |
| Carbon Dioxide, Calculated           |        |        |        |       |
| Dissolved Oxygen                     |        |        |        |       |
| Hydrogen Sulfide                     | 0.0    | 0.0    | 0.0    |       |
| Resistivity, ohms/cm at 77° F.       | 15.46  | 13.10  | 12.32  |       |
| Suspended Oil                        |        |        |        |       |
| Filtrable Solids as mg/l             |        |        |        |       |
| Volume Filtered, ml                  |        |        |        |       |
| Nitrate, as N                        | 1.8    | 2.1    | 1.1    |       |

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks The undersigned certifies the above to be true and correct to the best of his knowledge and belief.

By   
 Waylan C. Martin, M.A.