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# RESULT OF WATER ANALYSES

TO: Mr. George Ward LABORATORY NO. 129310  
P. O. Box 848, Wink, TX 79789 SAMPLE RECEIVED 12-2-93  
RESULTS REPORTED 12-6-93

COMPANY Apache Corporation LEASE As listed

FIELD OR POOL \_\_\_\_\_

SECTION \_\_\_\_\_ BLOCK \_\_\_\_\_ SURVEY \_\_\_\_\_ COUNTY Lee STATE NM

SOURCE OF SAMPLE AND DATE TAKEN:

NO. 1 Raw water - taken from Davis Ranch windmill. (*FRESH*)

NO. 2 Raw water - taken from Friar Ranch tank. (*FRESH*)

NO. 3 Produced water - taken from State "10" #1. (*Produced*)

NO. 4 \_\_\_\_\_

REMARKS: 3. Devonian

## CHEMICAL AND PHYSICAL PROPERTIES

|                                      | NO. 1  | NO. 2  | NO. 3  | NO. 4 |
|--------------------------------------|--------|--------|--------|-------|
| Specific Gravity at 60° F            | 1.0018 | 1.0015 | 1.0591 |       |
| pH When Sampled                      |        |        |        |       |
| pH When Received                     | 7.24   | 7.47   | 6.25   |       |
| Bicarbonate as HCO <sub>3</sub>      | 210    | 210    | 488    |       |
| Supersaturation as CaCO <sub>3</sub> |        |        |        |       |
| Undersaturation as CaCO <sub>3</sub> |        |        |        |       |
| Total Hardness as CaCO <sub>3</sub>  | 400    | 132    | 10,600 |       |
| Calcium as Ca                        | 116    | 34     | 3,440  |       |
| Magnesium as Mg                      | 27     | 11     | 486    |       |
| Sodium and/or Potassium              | 46     | 131    | 27,251 |       |
| Sulfate as SO <sub>4</sub>           | 219    | 135    | 1,295  |       |
| Chloride as Cl                       | 71     | 74     | 48,293 |       |
| Iron as Fe                           | 0.06   | 0.03   | 6.5    |       |
| Barium as Ba                         |        |        |        |       |
| Turbidity, Electric                  |        |        |        |       |
| Color as Pt                          |        |        |        |       |
| Total Solids, Calculated             | 689    | 596    | 81,253 |       |
| Temperature °F.                      |        |        |        |       |
| Carbon Dioxide, Calculated           |        |        |        |       |
| Dissolved Oxygen.                    |        |        |        |       |
| Hydrogen Sulfide                     | 0.0    | 0.0    | 0.0    |       |
| Resistivity, ohm-cm at 77° F.        | 11.57  | 12.90  | 0.110  |       |
| Suspended Oil                        |        |        |        |       |
| Filtrable Solids as mg/l             |        |        |        |       |
| Volume Filtered, ml                  |        |        |        |       |
| Nitrate, as N                        | 1.5    | 1.8    |        |       |

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.