

ANALYSIS NO. 53-35-90

FIELD RECEIPT NO. _____

FORM 45-1

API WATER ANALYSIS REPORT FORM

Company <u>Morrison Oil & Gas</u>		Sample No.	Date Sampled <u>8-30-90</u>	
Field	Legal Description		County or Parish	State
Lease or Unit	Well <u>Santa Fe 20-3</u>	Depth	Formation <u>Entrada</u>	Water, B/D
Type of Water (Produced, Supply, etc.)		Sampling Point		Sampled By

DISSOLVED SOLIDS

IONS	mg/l	meq/l
Sodium, Na (calc.)	<u>4630</u>	<u>201.31</u>
Calcium, Ca	<u>62</u>	<u>3.10</u>
Magnesium, Mg	<u>13</u>	<u>1.10</u>
Iron, Fe	<u>—</u>	<u>—</u>
Potassium, K ⁺	<u>11</u>	<u>.28</u>

ANIONS	mg/l	meq/l
Chloride, Cl	<u>2009</u>	<u>56.66</u>
Sulfate, SO ₄	<u>6212</u>	<u>129.33</u>
Carbonate, CO ₃	<u>29</u>	<u>.96</u>
Bicarbonate, HCO ₃	<u>1149</u>	<u>18.84</u>
Hydroxide, OH	<u>0</u>	<u>0</u>

Total Dissolved Solids (calc.) 14,115

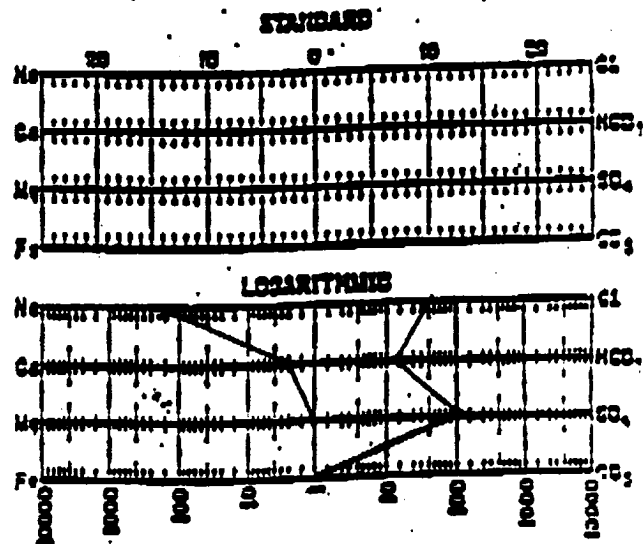
Iron, Fe (total) 0.0 ppm

Alkalinity as H₂S 205

OTHER PROPERTIES

pH	<u>8.46</u>
Specific Gravity, 60/60 F.	<u>1.010</u>
Resistivity (ohm-meters) <u>76 F.</u>	<u>.93</u>
Total hardness	<u>210</u>

WATER PATTERNS — meq/l



REMARKS & RECOMMENDATIONS:

Rick Dean

RECEIVED

MAY 23 1991

OIL CON. DIV.

DIST. 3

ANALYST: Lee

THE WESTERN COMPANY OF
NORTH AMERICA, FARMINGTON, N.M.
(505) 327-6222

Please refer any questions to: BRIAN ADLT

District Engineer