

API WATER ANALYSIS REPORT FORM

Company <u>Merrion Oil + Gas</u>		Sample No.	Date Sampled <u>02-13-91</u>
Field	Legal Description <u>Sec. 9 T26N, 12N</u>	County or Parish <u>Son Juan</u>	State <u>NM</u>
Lease or Unit	Well <u>SUSCO #3</u>	Depth	Formation <u>Fruitland coal</u>
Type of Water (Produced, Supply, etc.)		Sampling Point	Sampled By

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc)	<u>2340</u>	<u>101.74</u>
Calcium, Ca	<u>60</u>	<u>3.00</u>
Magnesium, Mg	<u>22</u>	<u>1.80</u>
Barium, Ba	<u>—</u>	<u>—</u>
Potassium, K ⁺	<u>34</u>	<u>.87</u>

ANIONS	mg/l	meq/l
Chloride, Cl	<u>3609</u>	<u>101.81</u>
Sulfate, SO ₄	<u>0</u>	<u>0</u>
Carbonate, CO ₃	<u>0</u>	<u>0</u>
bicarbonate, HCO ₃	<u>342</u>	<u>5.60</u>
hydroxide, OH	<u>0</u>	<u>0</u>

Total Dissolved Solids (calc.) 6407

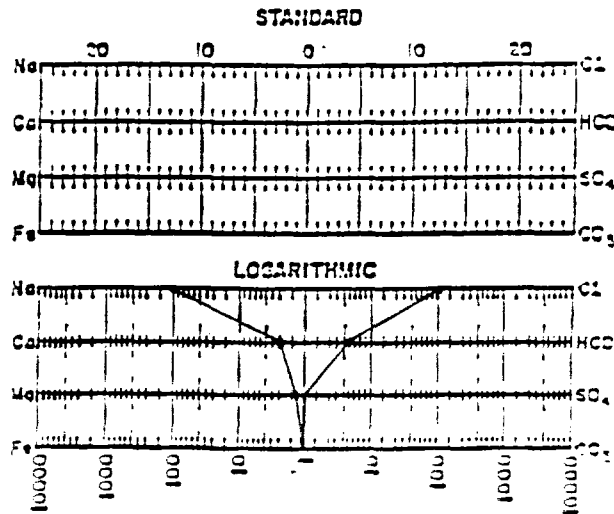
Iron, Fe (total) #, HT 0.0 ppm
 Sulfide, as H₂S neg

REMARKS & RECOMMENDATIONS:

OTHER PROPERTIES

pH	<u>7.85</u>
Specific Gravity, 60/60 F.	<u>1.003</u>
Resistivity (ohm-meters) <u>74 F.</u>	<u>.90</u>
Total hardness	<u>240</u>

WATER PATTERNS — meq/l



ANALYST: JD Hill

THE WESTERN COMPANY OF NORTH AMERICA, FARMINGTON, NM
 (505) 327-6222

Please refer any questions to: BRIAN ADLT, District Engineer

Date 11/12/87

Analysis 543687
Field Receipt

API FORM 45-1

API WATER ANALYSIS REPORT FORM

Company <u>Merriam Oil & Gas</u>		Sample No.	Date Sampled
Field	Legal Description <u>NW/NW 3.35T27NR13W</u>	County or Parish <u>San Juan</u>	State <u>N.M.</u>
Lease or Unit <u>NM 33049</u>	Well # <u>#4</u>	Depth	Formation <u>Pictured Cliffs</u>
Type of Water (Produced, Supply, etc.) <u>produced</u>	Sampling Point <u>Drip pot</u>	Sampled By <u>I. Merilatt</u>	

DISSOLVED SOLIDS

CATIONS	mg/l	meq/l
Sodium, Na (calc.)	<u>2076</u>	<u>90.60</u>
Calcium, Ca	<u>47</u>	<u>1.17</u>
Magnesium, Mg	<u>10</u>	<u>.60</u>
Barium, Ba		
Potassium, K	<u>23</u>	<u>.64</u>

ANIONS	mg/l	meq/l
Chloride, Cl	<u>3172</u>	<u>89.4</u>
Sulfate, SO ₄	<u>50</u>	<u>.52</u>
Carbonate, CO ₃	<u>0</u>	<u>0</u>
Bicarbonate, HCO ₃	<u>190</u>	<u>3.21</u>
Hydroxide, OH	<u>0</u>	<u>0</u>

Total Dissolved Solids (calc.) 5582

(meas.)

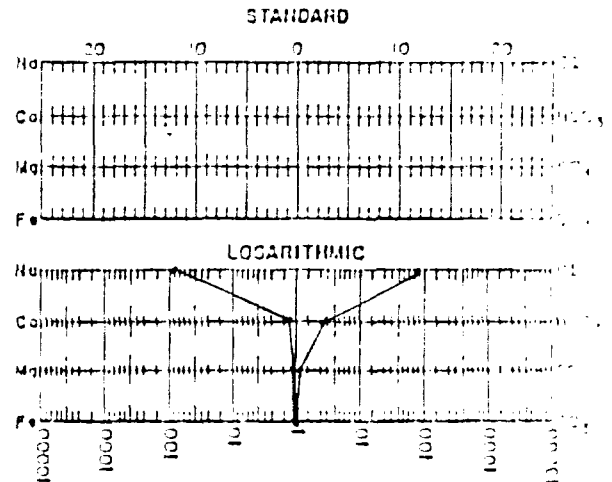
Iron, Fe (total) Fe⁺⁺³ Fe⁺⁺⁰
Sulfide, as H₂S non pres

REMARKS & RECOMMENDATIONS:

OTHER PROPERTIES

pH	<u>6.59</u>
Specific Gravity, 60/60 F.	<u>1.004</u>
Resistivity (ohm-meters) <u>59°F.</u>	<u>1.61</u>
Total Hardness	<u>140</u>

WATER PATTERNS — meq/l



Analyst J. Schart