

WATER ANALYSIS

File DCL 846097

Company Energy Reserves Group, Inc. Well Name _____ Sample No. _____

Formation Mississippi Chert Depth _____ Sampled From Tjaden "A" Lease

Location _____ Field _____ County Kingman State Kansas

Date Sampled May 15, 1984 Date Analyzed May 25, 1984 Analyst J.A. Lutkenhaus

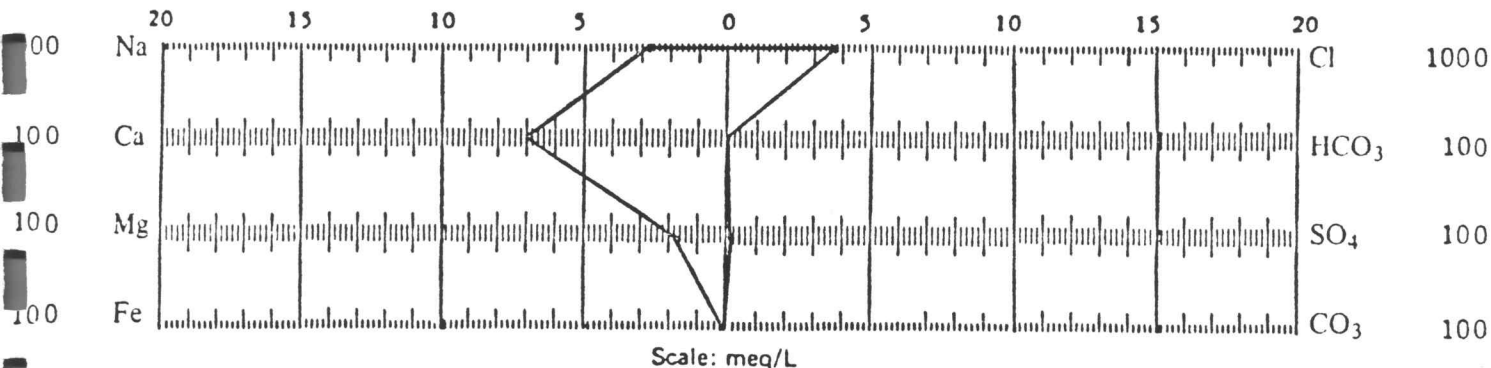
Total Dissolved Solids 209567 mg/L calculated Sp. Gr. 1.1407 @ 76.3 °F

Resistivity 0.05564 ohm-meters @ 76.3 °F measured 1.1418 @ 20 °C (68°F)

Total Sulfide _____

pH 4.86 @ 75 °F Hydrogen Sulfide Absent

Constituents	meq/L	mg/L	Constituents	meq/L	mg/L
Sodium	<u>2778.28</u>	<u>63873</u>	Chloride	<u>3643.80</u>	<u>129167</u>
Calcium	<u>700.10</u>	<u>14030</u>	Bicarbonate	<u>0.32</u>	<u>19.3</u>
Magnesium	<u>169.87</u>	<u>2065</u>	*Sulfate	<u>6.95</u>	<u>334</u>
Iron	<u>2.82</u>	<u>78.8</u>	Carbonate	<u>0.0</u>	<u>0.0</u>
*Barium	<u>0.0</u>	<u>0.0</u>	Hydroxide	<u>0.0</u>	<u>0.0</u>



Total Iron 78.8 mg/l Fe
 Dissolved Iron 31.3 mg/l Fe
 Suspended Iron 47.5 mg/l Fe

Strontium by analysis 490 mg/l Sr

* Gravimetric Analysis

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