

ATIN WATER LABORATORIES, IN

P.O. Box 1468 Phone 943-3234 or 563-1040
Monahans, Texas 79756

RESULT OF WATER ANALYSES

709 W. Indiana Phone 683-4521
Midland, Texas 79701

To: Mr. Greg Colburn
400 W. Illinois, Suite 1000, Midland, TX 79701

LABORATORY NO. 294111
SAMPLE RECEIVED 2-14-94
RESULTS REPORTED 2-17-94

API WATER ANALYSIS REPORT FORM

Company <u>Mitchell Energy Corporation</u>		Sample No.	Date Sampled
Field	Legal Description <u>Sec. 23 - T-20S & R-35E</u>	County or Parish <u>Lea</u>	State <u>NM</u>
Lease or Unit <u>Watkins "B" Gas Com.</u>	Well <u>#1</u>	Depth	Formation <u>Morrow "K"</u>
Type of Water (Produced, Supply, etc.) <u>Produced</u>	Sampling Point		Water, B/D <u></u>
		Sampled By	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>26,851</u>	<u>1,167.4</u>
Calcium, Ca	<u>1,440</u>	<u>72.0</u>
Magnesium, Mg	<u>158</u>	<u>13.0</u>
Barium, Ba	<u>0</u>	<u>0.0</u>

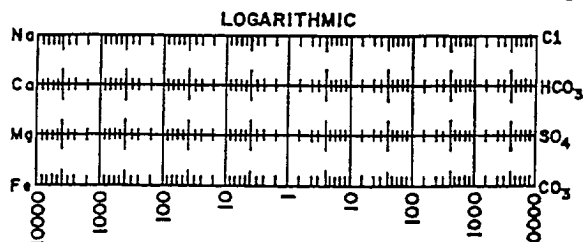
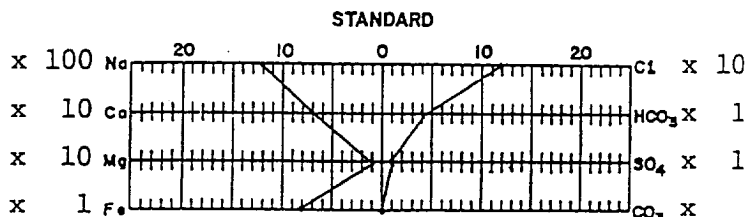
OTHER PROPERTIES

pH	<u>6.21</u>
Specific Gravity, 60/60 F.	<u>1.0497</u>
Resistivity (ohm-meters) <u>77° F.</u>	<u>0.119</u>
Total Hardness, as CaCO ₃	<u>4,250</u>

ANIONS

Chloride, Cl	<u>42,966</u>	<u>1,211.7</u>
Sulfate, SO ₄	<u>258</u>	<u>5.4</u>
Carbonate, CO ₃	<u>0</u>	<u>0.0</u>
Bicarbonate, HCO ₃	<u>2,159</u>	<u>35.4</u>

WATER PATTERNS — me/l



Total Dissolved Solids (calc.)
73,833

Iron, Fe (total)	<u>195</u>	<u>7.8</u>
Sulfide, as H ₂ S	<u>0.0</u>	

REMARKS & RECOMMENDATIONS: The above results reveal ratios and levels of salts that correlate reasonably well with what we would expect from natural Morrow. Contact us for any additional assistance in this matter.

Waylan C. Martin

Waylan C. Martin, M.A.