

MARTIN WATER LABORATORIES, INC.

P.O. Box 1468 Phone 948-3234 or 563-1040
Monahans, Texas 79756

RESULT OF WATER ANALYSES

709 W. Indiana Phone 683-4521
Midland, Texas 79701To: Mr. Greg Colburn
400 N. Illinois, Suite 1000
Midland, TX 79701LABORATORY NO. 294217
SAMPLE RECEIVED 2-16-94
RESULTS REPORTED 3-11-94

API WATER ANALYSIS REPORT FORM

Company <u>Mitchell Energy Corporation</u>		Sample No.		Date Sampled	
Field		Legal Description <u>Sec. 18, Surv. T-19S&R-32E</u>		County or Parish <u>Lea</u>	
Lease or Unit <u>Crazy Horse "18" Federal #1 Unit</u>		Well <u>"E"</u>		State <u>NM</u>	
Depth <u>"E"</u>		Formation <u>Morrow</u>		Water, B/D	
Type of Water (Produced, Supply, etc.) <u>Produced</u>		Sampling Point		Sampled By	

DISSOLVED SOLIDS

CATIONS	mg/l	me/l
Sodium, Na (calc.)	<u>17,298</u>	<u>752.1</u>
Calcium, Ca	<u>1,840</u>	<u>92.0</u>
Magnesium, Mg	<u>243</u>	<u>20.0</u>
Barium, Ba		

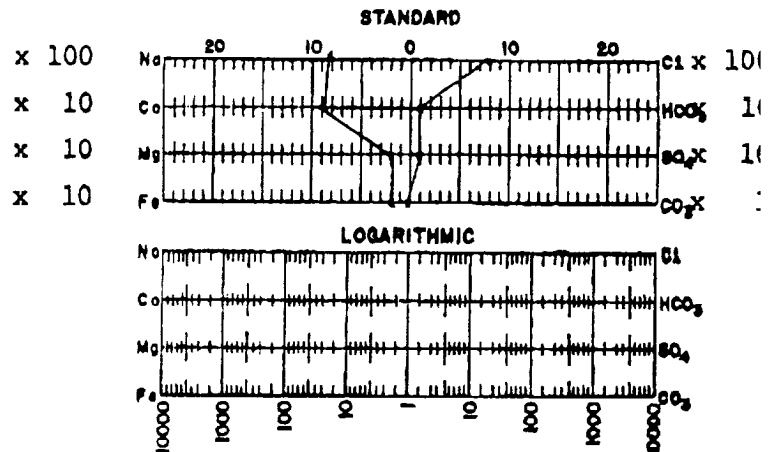
OTHER PROPERTIES

pH	<u>5.90</u>
Specific Gravity, 60/60 F.	<u>1.0377</u>
Resistivity (ohm-meters) <u>77° F.</u>	<u>0.160</u>
Total Hardness, as CaCO ₃	<u>5,600</u>

ANIONS

Chloride, Cl	<u>29,828</u>	<u>841.1</u>
Sulfate, SO ₄	<u>550</u>	<u>11.4</u>
Carbonate, CO ₃	<u>0</u>	<u>0.0</u>
Bicarbonate, HCO ₃	<u>702</u>	<u>11.5</u>

WATER PATTERNS — me/l



Total Dissolved Solids (calc.)

50,461Iron, Fe (total) 495 19.8
Sulfide, as H₂S 0.0

REMARKS & RECOMMENDATIONS: The above results reveal ratios and levels of salts that correlate well what would be expected from natural Morrow.

Waylan C. Martin, M.A.

RECEIVED

APR 25 1994

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OFFICE**