

MARTIN WATER LABORATORIES, INC.

P.O. Box 1468 Phone 948-3284 or 863-1040
Monahans, Texas 79756

RESULT OF WATER ANALYSES

709 W. Indiana Phone 683-4531
Midland, Texas 79701To: Mr. Greg Colburn
400 West Illinois, Suite 1000
Midland, TX 79701LABORATORY NO. 1093174SAMPLE RECEIVED 10-23-93RESULTS REPORTED 10-26-93

API WATER ANALYSIS REPORT FORM

Company Mitchell Energy Corporation		Sample No.		Date Sampled 10-22-93	
Field		Legal Description		County or Parish Lea State NM	
Lease or Unit Top Hat Federal "26" #1		Well		Depth	
Type of Water (Produced, Supply, etc.) Produced		Sampling Point Separator		Formation Morrow Water, B/D Sampled By	

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na (calc.)	15,538	675.6
Calcium, Ca	1,560	78.0
Magnesium, Mg	753	62.0
Barium, Ba	0	0.0

ANIONS

Chloride, Cl	28,408	801.1
Sulfate, SO ₄	128	2.7
Carbonate, CO ₃	0	0.0
Bicarbonate, HCO ₃	720	11.8

Total Dissolved Solids (calc.)

47,107

Iron, Fe (total)

122

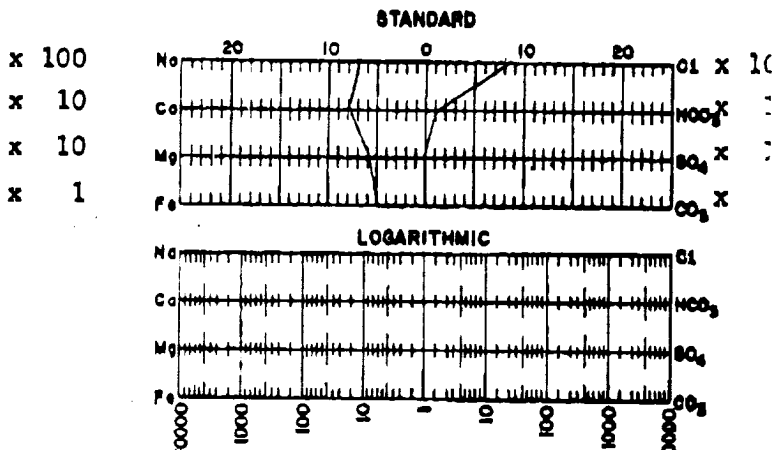
4.9

Sulfide, as H₂S0.0

OTHER PROPERTIES

pH 6.46
 Specific Gravity, 60/60 F. 1.0364
 Resistivity (ohm-meters) 77°F. 0.168
 Total Hardness, as CaCO₃ 7,000

WATER PATTERNS — me/l



REMARKS & RECOMMENDATIONS: The above results reveal no significant change in the water from this well as compared to laboratory #692169 (6-26-92). Therefore, it continues to have characteristics that correlate with what would be expected from natural Morrow.

Waylan C. Martin
 Waylan C. Martin, M.A.