

MARTIN WATER LABORATORIES, I

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. Don Mashburn

LABORATORY NO. 129657

P. O. Box 10426, Midland, TX 79702

SAMPLE RECEIVED 12-9-96

RESULTS REPORTED 12-10-96

API WATER ANALYSIS REPORT FORM

Company Doyle Hartman, Oil Operators		Sample No.		Date Sampled 12-9-96	
Field Monument		Legal Description		County or Parish Lea State NM	
Lease or Unit Britt Laughlin		Well #2		Depth	
Type of Water (Produced, Supply, etc.) Recovered		Sampling Point		Formation Water, B/D	
				Sampled By	

DISSOLVED SOLIDS

OTHER PROPERTIES

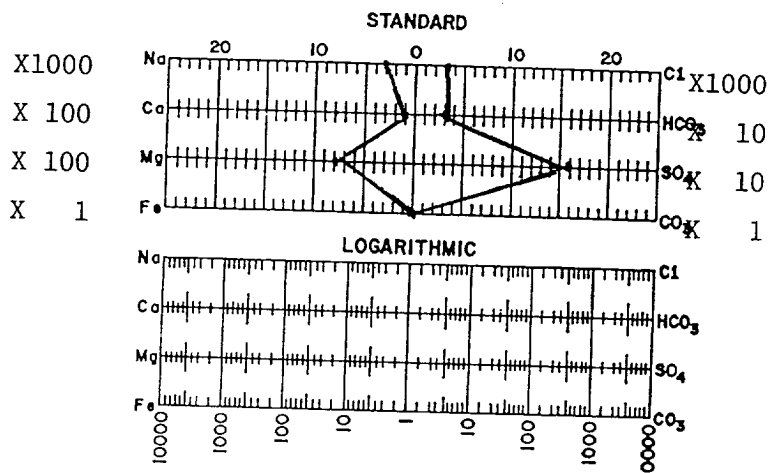
CATIONS	mg/l	me/l
Sodium, Na (calc.)	60,457	2,628.6
Calcium, Ca	2,400	120.0
Magnesium, Mg	9,720	800.0
Barium, Ba		

pH	6.75
Specific Gravity, 60/60 F.	1.1432
Resistivity (ohm-meters) 77°F.	0.058
Total Hardness, CaCO ₃	46,000

ANIONS

Chloride, Cl	119,312	3,364.6
Sulfate, SO ₄	7,631	158.7
Carbonate, CO ₃	0	0.0
Bicarbonate, HCO ₃	1,537	25.2

WATER PATTERNS — me/l



Total Dissolved Solids (calc.)

201,057

Iron, Fe (total)

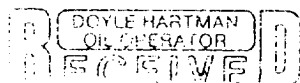
10.7

0.4

Sulfide, as H₂S

0.0

REMARKS & RECOMMENDATIONS: In comparing this water with that recovered from this well on 12-3-96 and reported on laboratory #129634, we see a significant decline in the levels of sodium, chloride, magnesium, and sulfate. However, the basic ratios of salts remain reasonably similar.



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

DEC 13 1996

FAX: Doyle Hartman, Dallas

Forward to
Don Mashburn
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Midland, TX 79702