



WATER ANALYSIS REPORT

COMPANY YATES PETROLEUM CORP. ADDRESS _____ DATE: 6-6-86
SOURCE LONE STAR # 1 DATE SAMPLED 6-5-86 ANALYSIS NO. _____
Analysis Mg/L *Meq/L

1. pH	6.0			
2. H ₂ S (Qualitative)	0			
3. Specific Gravity	1.075			
4. Dissolved Solids		92,552		
5. Suspended Solids		-		
6. Phenolphthalein Alkalinity (CaCO ₃)		250		
7. Methyl Orange Alkalinity (CaCO ₃)		305		
8. Bicarbonate (HCO ₃)		55,437	÷ 61	5 HCO ₃
9. Chlorides (Cl)		1,375	÷ 35.5	1,562 Cl
10. Sulfates (SO ₄)		4,000	÷ 48	29 SO ₄
11. Calcium (Ca)		729	÷ 20	200 Ca
12. Magnesium (Mg)		13,000	÷ 12.2	60 Mg
13. Total Hardness (CaCO ₃)		3 ppm		
14. Total Iron (Fe)				
15. Barium (Qualitative)				
16. Strontium				

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

200	Ca	HCO ₃	5	Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
60	Mg	SO ₄	29	Ca (HCO ₃) ₂	81.04		5		405
1336	Na	Cl	1562	Ca SO ₄	68.07		29		1,974
				Ca Cl ₂	55.50		166		9,213
				Mg (HCO ₃) ₂	73.17		-		-
				Mg SO ₄	60.19		-		-
				Mg Cl ₂	47.62		60		2,857
				Na HCO ₃	84.00		-		-
				Na ₂ SO ₄	71.03		-		-
				Na Cl	58.46		1,336		78,103

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

REMARKS _____