

WATER ANALYSIS REPORT

COMPANY YATES PETROLEUM CORP. ADDRESS _____ DATE: 6-6-86

SOURCE INTERNORTH # 1 DATE SAMPLED 6-5-86 ANALYSIS NO. _____
Analysis Mg/L *Meq/L

1. pH	<u>6.1</u>				
2. H ₂ S (Qualitative)	<u>0</u>				
3. Specific Gravity	<u>1.080</u>				
4. Dissolved Solids		<u>98,783</u>			
5. Suspended Solids		<u>-</u>			
6. Phenolphthalein Alkalinity (CaCO ₃)		<u>-</u>			
7. Methyl Orange Alkalinity (CaCO ₃)		<u>300</u>			
8. Bicarbonate (HCO ₃)		<u>366</u>	<u>÷ 61</u>	<u>6</u>	HCO ₃
9. Chlorides (Cl)		<u>58,975</u>	<u>÷ 35.5</u>	<u>1,661</u>	Cl
10. Sulfates (SO ₄)		<u>1,500</u>	<u>÷ 48</u>	<u>31</u>	SO ₄
11. Calcium (Ca)		<u>4,000</u>	<u>÷ 20</u>	<u>200</u>	Ca
12. Magnesium (Mg)		<u>486</u>	<u>÷ 12.2</u>	<u>40</u>	Mg
13. Total Hardness (CaCO ₃)		<u>12,000</u>			
14. Total Iron (Fe)		<u>5 ppm</u>			
15. Barium (Qualitative)					
16. Strontium					

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca			<u>6</u>		<u>486</u>
Ca (HCO ₃) ₂	81.04		<u>31</u>		<u>2,110</u>
Ca SO ₄	68.07		<u>163</u>		<u>9,047</u>
Ca Cl ₂	55.50		<u>0</u>		<u>0</u>
Mg (HCO ₃) ₂	73.17		<u>0</u>		<u>0</u>
Mg SO ₄	60.19		<u>40</u>		<u>1,905</u>
Mg Cl ₂	47.62		<u>0</u>		<u>0</u>
Na HCO ₃	84.00		<u>0</u>		<u>0</u>
Na ₂ SO ₄	71.03		<u>1,458</u>		<u>85,235</u>
Na Cl	58.46				

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 _____

Respectfully submitted
PETROLITE CORP.
Jayson Jones