ATTEN: Rod

TO: Matt Humphreys IPG

REEF

Company: J.M. Huber
Source: Swab Test
Number: 48036

Location: Burch 10-17
Attention:
Date Sampled: October 14, 2003
Salesman: Kenny Bunch

ANALYSIS	mg/L		EQ. WT.		MEQ/L
1. pH	5.70				
2. Specific Gravity 60/60 f.	1.057				
3. Hydrogen Sulfide	Negative				
4. Carbon Dioxide	Not Determined				
5. Dissolved Oxygen	Not Determined				
6. Hydroxyl (OH-)	0	/	17.0	=	0.00
7. Carbonate (CO3=)	0	/	30.0	=	0.00
8. Bicarbonate (HCO3-)	647	/	61.1	=	10.59
9. Chloride (Cl-)	47,989	/	35.5	=	1,351.80
10. Sulfate (SO4=)	41	/	48.8	=	0.84
11. Calcium (CA++)	3,257	/	20.1	=	162.04
12. Magnesium (Mg++)	757	/	12.2	=	62.05
13. Sodium (Na+)	26,200	/	23.0	=	1,139.14
14. Barium (Ba++)	2.00				
15. Total Iron (Fe)	65.00				
16. Manganese	2.00				
17. Strontium	96				
18. Potassium	215.00				
19. Total Dissolved Solids	79,273				

* conductivity 39 milli mhos or micro Simens

21. Resistivity @ 75 F. (calculated) 0.10 /cm.

22. CACO3 Saturation Index

@80 F.	-0.9137
@100 F.	-0.5037
@120 F.	-0.2437
@140 F.	0.1163
@160 F.	0.4863

23. CASO4 Supersaturation Ratio

@70F	0.0183
@90F	0.0182
@110F	0.0184
@130F	0.0187
@150F	0.0190

Ratio Greater than 1 indicates Scale

PROBABLE MINERAL COMPOSITION

COMPOUND	EQ. WT.	X	MEQ/L	= mg/L
Ca(HCO3)2	81.04		10.59	858
CaSO4	68.07		0.84	57
CaCl2	55.50		150.61	8,359
Mg(HCO3)2	73.17		0.00	0
MgSO4	60.19		0.00	0
MgCL2	47.62		62.05	2,955
NaHCO3	84.00		0.00	0
Na2SO4	71.03		0.00	0
NaCl	58.46		1,139.14	66,594

Chemist