

WATER ANALYSIS REPORT

Company : SANTA FE
 Address : ARTESIA, NM
 Lease : 17-3
 Well : BATTERY
 Sample Pt. : TANK

Date : 10/19/95
 Date Sampled : 10/18/95
 Analysis No. : 017

17-235-31e

ANALYSIS		mg/L		* meq/L	
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1.	pH	5.6			
2.	H2S	0 PPM			
3.	Specific Gravity	1.200			
4.	Total Dissolved Solids		291597.6		
5.	Suspended Solids		NR		
6.	Dissolved Oxygen		NR		
7.	Dissolved CO2		NR		
8.	Oil In Water		NR		
9.	Phenolphthalein Alkalinity (CaCO3)				
10.	Methyl Orange Alkalinity (CaCO3)				
11.	Bicarbonate	HCO3	12.2	HCO3	0.2
12.	Chloride	Cl	181050.0	Cl	5107.2
13.	Sulfate	SO4	0.0	SO4	0.0
14.	Calcium	Ca	25480.0	Ca	1271.5
15.	Magnesium	Mg	3514.5	Mg	289.1
16.	Sodium (calculated)	Na	81540.9	Na	3546.8
17.	Iron	Fe	NR		
18.	Barium	Ba	NR		
19.	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)		78100.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter				Compound	Equiv wt	X meq/L	=	mg/L
+-----+				-----				
1271	*Ca	<-----	*HCO3	0	Ca(HCO3)2	81.0	0.2	16
	/	----->			CaSO4	68.1		
289	*Mg	----->	*SO4	0	CaCl2	55.5	1271.3	70542
	<-----	/			Mg(HCO3)2	73.2		
3547	*Na	----->	*Cl	5107	MgSO4	60.2		
					MgCl2	47.6	289.1	13764
Saturation Values Dist. Water 20 C					NaHCO3	84.0		
	CaCO3		13 mg/L		Na2SO4	71.0		
	CaSO4 * 2H2O		2090 mg/L		NaCl	58.4	3546.8	207275
	BaSO4		2.4 mg/L					

REMARKS:

----- ANDY MILLER