

PANTECHS LABORATORIES

P. O. BOX 2439 TEL. 806 669-6821 PAMPA, TEXAS 79066-2439
 P. O. BOX 3246 TEL. 806 797-4325 LUBBOCK, TEXAS 79452-3246

'91 JUL 17 AM 8 52

Sec. 16, 30N, 17E

WATER ANALYSIS

SAMPLING DATA

Lab #.....1331
 Customer.....VERMEJO MINERALS CORP
 Sample ID.....WELL # 91-3
 Produced Water
 Date sampled.....06-20-91
 Sampling point.....--
 Sample temp (deg. F).....75
 Sampled by.....Vermejo
 Analysis date.....06-27-91

ANALYTICAL DATA

pH.....8.42
 Specific gravity @ 75 deg. F.....1.0001
 Resistivity (ohm-m).....3.39
 Filterable solids (mg/l).....31.6
 Carbon dioxide (CO₂) mg/l.....NA
 Sulfide (as H₂S) mg/l.....NA
 Total hardness (as CaCO₃) mg/l.....NA

REMARKS:

NO ODOR
 SLIGHT VISIBLE SOLIDS
 FAIRLY CLEAR

DISSOLVED SOLIDS

Cations	meq/l	mg/l	ppm
Sodium (Na)	28.5	655	655
Calcium (Ca)	.8	16	16
Magnesium (Mg)	.2	2	2
Iron (Fe), total	0	0	0
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA
Anions			
Chloride (Cl)	17	603	603
Sulfate (SO ₄)	0	0	0
Carbonate (CO ₃)	.4	12	12
Bicarbonate (HCO ₃)	12	732	732
Hydroxide (OH)	0	0	0
Total dissolved solids (calculated)	58.9	2020	2020

DISTRIBUTION

3-VERMEJO MINERALS CORPORATION
 ROUTE 1 BOX 68
 CIMARRON, NEW MEXICO 87114
 MR LARRY WILLIAMSON

Analysis By: Steven Hopkins

Water Patterns (meq/l)
Logarithmic

