

# PANTLACE LABORATORIES VISION

P. O. BOX 2439 TEL. 806 669-6821 PAMPA, TEXAS 79066-2439  
 P. O. BOX 3246 TEL. 806 797-4325 LUBBOCK, TEXAS 79402-3246

90 MAR 12 10 10 AM '91

D

## WATER ANALYSIS

### SAMPLING DATA

Lab #.....0689  
 Customer.....VERMEJO MINERALS CORP.  
 Sample ID.....\* Well # D  
                     Produced Water  
 Date sampled.....3-1-90  
 Sampling point.....--  
 Sample temp (deg. F).....75  
 Sampled by.....Vermejo  
 Analysis date.....3-7-90

### ANALYTICAL DATA

pH.....8.09  
 Specific gravity @ 75 deg. F.....1.0031  
 Resistivity (ohm-cm).....1.19  
 Filterable solids (mg/l).....166.8  
 Carbon dioxide (CO<sub>2</sub>) mg/l.....NA  
 Sulfide (as H<sub>2</sub>S) mg/l.....NA  
 Total hardness (as CaCO<sub>3</sub>) mg/l.....NA

### REMARKS:

\* Cimarron, New Mexico Area  
  
 Color:  
 Gray; cloudy; suspended Solids

### DISSOLVED SOLIDS

Cations	meq/l	mg/l	ppm
Sodium (Na)	85.4	1963	1957
Calcium (Ca)	1.5	30	30
Magnesium (Mg)	2.5	30	30
Iron (Fe), total	.7	20	20
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA
<b>Anions</b>			
Chloride (Cl)	71.2	2524	2516
Sulfate (SO <sub>4</sub> )	0	0	0
Carbonate (CO <sub>3</sub> )	0	0	0
Bicarbonate (HCO <sub>3</sub> )	18.9	1153	1149
Hydroxide (OH)	0	0	0
Total dissolved solids (calculated)	180.2	5720	5702

### DISTRIBUTION

3-Vermejo Minerals Corporation  
 Rte 1 Box 68  
 Cimarron, New Mexico 87714  
  
 Mr Larry Williamson

Analysis By: \_\_\_\_\_ Steve Hopkins \_\_\_\_\_

Water Patterns (meq/l)  
Logarithmic

