

# PANTLCHS 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

## WATER ANALYSIS

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### SAMPLING DATA

Lab #.....0587  
 Customer.....VERMEJO MINERALS CORP.  
 Sample ID.....\* Well # T  
                     Produced Water  
 Date sampled.....1-25-90  
 Sampling point.....--  
 Sample temp (deg. F).....75  
 Sampled by.....Vermejo  
 Analysis date.....2-5-90

### REMARKS:

\* Cimarron, New Mexico Area

Color:  
 Orange W/Suspended Solids

### DISTRIBUTION

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

### ANALYTICAL DATA

pH.....6.61  
 Specific gravity @ 75 deg. F.....1.0121  
 Resistivity (ohm-m)......31  
 Filterable solids (mg/l).....396.8  
 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

### DISSOLVED SOLIDS

| Cations          | meq/l | mg/l | ppm  |
|------------------|-------|------|------|
| Sodium (Na)      | 241.8 | 5559 | 5493 |
| Calcium (Ca)     | 25.5  | 511  | 505  |
| Magnesium (Mg)   | 14.4  | 175  | 173  |
| Iron (Fe), total | 2.1   | 59   | 58   |
| Potassium (K)    | NA    | NA   | NA   |
| Barium (Ba)      | NA    | NA   | NA   |

### Anions

|                                     | meq/l | mg/l  | ppm   |
|-------------------------------------|-------|-------|-------|
| Chloride (Cl)                       | 275.9 | 9781  | 9664  |
| Sulfate (SO <sub>4</sub> )          | .2    | 10    | 10    |
| Carbonate (CO <sub>3</sub> )        | 0     | 0     | 0     |
| Bicarbonate (HCO <sub>3</sub> )     | 7.7   | 470   | 464   |
| Hydroxide (OH)                      | 0     | 0     | 0     |
| Total dissolved solids (calculated) | 567.6 | 16565 | 16367 |

Analysis By \_\_\_Steve Hopkins\_\_\_\_\_

Water Patterns (meq/l)  
Logarithmic

