

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

SEC 32, 31N, 18E

WATER ANALYSIS

SAMPLING DATA

Lab #.....1297
 Customer.....VERMEJO MINERALS CORP
 Sample ID.....PENNZOIL # 91-2
 Produced Water
 Date sampled.....05-08-91
 Sampling point.....--
 Sample temp (deg. F).....75
 Sampled by.....Vermejo
 Analysis date.....05-13-91

REMARKS:

DULL GRAY COLOR-CLOUDY
 VISIBLE SUSPENDED SOLIDS
 HYDROCARBON ODOR

DISTRIBUTION

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

ANALYTICAL DATA

pH.....8.32
 Specific gravity @ 75 deg. F.....1.0022
 Resistivity (ohm-cm).....2.03
 Filterable solids (mg/l).....136.8
 Carbon dioxide (CO₂) mg/l.....NA
 Sulfide (as H₂S) mg/l.....NA
 Total hardness (as CaCO₃) mg/l.....NA

DISSOLVED SOLIDS

Cations	meq/l	mg/l	ppm
Sodium (Na)	50	1150	1147
Calcium (Ca)	1.4	28	28
Magnesium (Mg)	.5	6	6
Iron (Fe), total	0	0	0
Potassium (K)	NA	NA	NA
Barium (Ba)	NA	NA	NA

Anions

	meq/l	mg/l	ppm
Chloride (Cl)	33.9	1202	1199
Sulfate (SO ₄)	0	0	0
Carbonate (CO ₃)	0	0	0
Bicarbonate (HCO ₃)	18.1	1104	1102
Hydroxide (OH)	0	0	0
Total dissolved solids (calculated)	103.9	3490	3482

Analysis By:___Steven Hopkins_____

Water Patterns (meq/l)
 Logarithmic

