



2506 West Main Street
Farmington, New Mexico 87401
Tel. (505) 326-4737

CLIENT: NMOCD-Penzoil
ID: 9009101430
SITE: Well 3118-321 I
LAB NO: F4990

DATE REPORTED: 10/09/90
DATE RECEIVED: 09/14/90
DATE COLLECTED: 09/10/90

Lab pH (s.u.).....	8.44
Lab conductivity, umhos/cm.....	2710
Lab resistivity, ohm-m.....	3.69
Total dissolved solids (180), mg/l..	2070
Total dissolved solids (calc), mg/l.	2050
Total alkalinity as CaCO ₃ , mg/l.....	1030
Total acidity as CaCO ₃ , mg/l.....	0
Total hardness as CaCO ₃ , mg/l.....	68.3
Sodium absorption ratio.....	43.6

	mg/l	meq/l
Bicarbonate as HCO ₃	1200	19.7
Carbonate as CO ₃	30.9	1.03
Chloride.....	569	16
Sulfate.....	0.82	0.02
Calcium.....	24.1	1.2
Magnesium.....	1.98	0.16
Potassium.....	1.5	0.04
Sodium.....	829	36.1
Major cations.....		37.5
Major anions.....		36.8
Cation/anion difference.....		0.96 %

Trace metals by AA (dissolved concentration), mg/l

	Analytical Result:	Detection Limit:
Arsenic (As)	ND	<0.005
Cadmium (Cd)	ND	<0.002
Lead (Pb)	ND	<0.005
Selenium (Se)	ND	<0.005

SEC. 30, T31N, R18E

1950 FSL

1195 FFL

TOTAL LENT 2.41

1950 FSL 1554-1664

1700-1800

PERMITS FORMATION COAL SEAMS