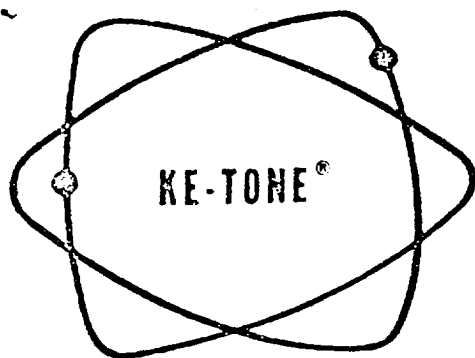




UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

Company Martindale Petroleum Corporation

Field Drinkard

Lease **PANKANA FEDERAL**
~~Drill Field~~ #1

Sampling Date 6-26-78

Type of Sample Wellhead

WATER ANALYSIS

IONIC FORM

Calcium (Ca++)
Magnesium (Mg++)
Sodium (Na+)
Iron (Total)
Barium

(CALCULATED)

Bicarbonate (HCO₃-)
Carbonate (CO₃-)
Hydroxide (OH-)
Sulphate (SO₄-)
Chloride (Cl-)

Total Dissolved Solids

6.8 pH 68° F

Dissolved Solids on Evap. at 103° - 105° C

Hardness as Ca CO₃

Carbonate Hardness as CaCO₃ (temporary)

Non-Carbonate Hardness as CaCO₃ (permanent)

Alkalinity as CaCO₃

Specific Gravity @ 68° F

1.126

me/l *	mg/l *
460.00	9,200
232.20	2,786
2,645.32	60,816
	42
	1.6
4.20	256
Not	found
Not	found
27.32	1,312
3,073.80	109,000
	183,370
692.20	34,610
4.20	210
688.00	34,400
4.20	210

* mg/l = milligrams per Liter

* me/l = milliequivalents per Liter

CaCO₃ Scaling Index positive @ 86°F (0.81)

CaSO₄ Scaling Index negative (0.53)

Makes Water Work