

To: Mr. Bill Pierce

**DRAFT**

Laboratory No.

Sample Received 9-25-01

Results Reported

As listed

COMPANY Pierce Production Company

Lease:

FIELD

SEC 6 &amp; 7

BLK

SURVEY T-22S&amp;R-38E

County: Lea, NM

No. 1 Produced water - taken from GPS Federal #1. 9-24-01

No. 2 Produced water - taken from Sims Federal #1. 9-24-01

No. 3

No. 4

**REMARKS:**

Drinkard Abo (1) 6,750'-6,820' (2) 6,732'-6,810'

Specific Gravity @ 60°F.

1.1159

1.1192

pH When Sampled

pH When Received

6.20

7.00

Bicarbonate, as HCO<sub>3</sub>

159

342

Supersaturation, as CaCO<sub>3</sub>Undersaturation, as CaCO<sub>3</sub>Total Hardness, as CaCO<sub>3</sub>

29,000

36,500

Calcium, as Ca

7,200

10,200

Magnesium, as Mg

2,673

2,673

Sodium and/or Potassium

54,505

53,850

Sulfate, as SO<sub>4</sub>

1,152

1,075

Chloride, as Cl

103,660

107,920

Iron, as Fe

39.6

27.1

Barium, as Ba

Turbidity

Color, as Pt

Total Solids, Calc.

169,349

176,060

Temperature, °F.

Carbon Dioxide, Calc.

Dissolved Oxygen

Hydrogen Sulfide

0.0

0.0

Resistivity, ohms/m @ 77°F.

0.064

0.063

Suspended Oil

Filtrable Solids, mg/l

Volume Filtered, ml

Results Reported As Milligrams Per Liter

**Additional Determinations & Remarks**

These waters show characteristics that are reasonably similar to one another although the sample from Sims Fed. #1 does show a slightly higher level of calcium and bicarbonate. When we compare these waters with our records, we find a wide variety of salt levels in Drinkard and Abo waters in this area, but these two records are somewhat similar to some of our records of Drinkard water. Unfortunately, our records range from 10-15 miles distance from these wells.

MARTIN WATER LABS., INC.

[REDACTED]

**To: BUREAU OF LAND MANAGEMENT**

**414 West Taylor**

**Hobbs, New Mexico 88240**

**WELL NAME & NUMBER:** Sims Federal # 1,2,3

**FEDERAL LEASE NUMBER:** NM029029B

**LEGAL DESCRIPTION:** NE4, Section 7 - T22S - R38E

**COUNTY & STATE:** Lea County, New Mexico

**FIELD OR POOL:** South Brunson Drinkard - Abo

**OPERATOR:** Pierce Production Company

**ADDRESS:** P. O. Box 1969, Eunice, New Mexico 88231

**TELEPHONE:** 505 393-2150

**FAX NUMBER:** 505 394-3543

**NAME OF PRODUCED WATER FORMATION:** Drinkard - Abo

**APPROXIMATE AMOUNT OF DAILY WATER PRODUCED IN BBLs:** 3 - 4

**STORAGE FACILITY AT LEASE:** None

**PRODUCED WATER ANALYSIS:** See attached sheet.

**METHOD OF DISPOSAL FROM LEASE:** Rice Operating Company water disposal line.

**NAME OF GATHERER:** Rice Operating Company

**TELEPHONE:** 505 393-9174

**DISPOSAL SYSTEM:** Blinbry - Drinkard Disposal System

**PERMIT NUMBER:** NMOCD UIC Permit #SWD-82 & SWD-184

**LOCATION OF DISPOSAL WELL:** SE4/SE4 Sec. 35-T22S-R37E & SE4/SW4 Sec. 18-T22S-R37E

**METHOD OF DISPOSAL:** Injection pump.

**SIGNED:** Bill Pierce **ORIGINAL SIGNED BY:**

**PRINTED NAME:** Bill Pierce

**TITLE:** Petroleum Engineer

**DATE:** October 3, 2001

