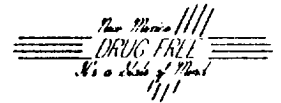




STATE OF NEW MEXICO
ENERGY, MINERALS and NATURAL RESOURCES DIVISION
OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178

May 17, 1993

Mr. Steve Dunn
Merrion Oil and Gas Corporation
P. O. Box 840
Farmington, NM 87499

Re: Western #2 P--7-26N11W

Dear Steve:

As per our conversation, the PRO New Mexico Gracia Federal #1 which offsets the referenced well is producing large amounts of water which appears to be Pictured Cliffs water. A survey of the wells in the area show that the referenced well may not be cemented across the Fruitland and Pictured Cliffs zones. Please take the necessary steps to verify that there is not communication between these two zones.

I have enclosed copies of the water analyses.

Sincerely,

Frank T. Chavez, District Supervisor

cc: BLM Farmington

File

PROPERTY MANAGEMENT & CONSULTING, INC.

P. O. BOX 2596

FARMINGTON, NEW MEXICO 87499-2596

(505) 325-5220

File WA/0841/93

Company PRO NEW MEXICO, INC.

Well Name Gracia 8-L #1

Sample No. Three

Formation Fruitland Coal

Depth N/A

Sampled From Swab Run

Location N/A

Field Basin Fruitland

County San Juan

State NM

Date Sampled 04/26/93

Date Analyzed 04/29/93

Engineer W. D. Stricklin

***Note: **SAMPLED AT NOON**

Total Dissolved Solids 28,967 mg/L Calculated

Sp. Gr. 1.024 @ 65 °F.

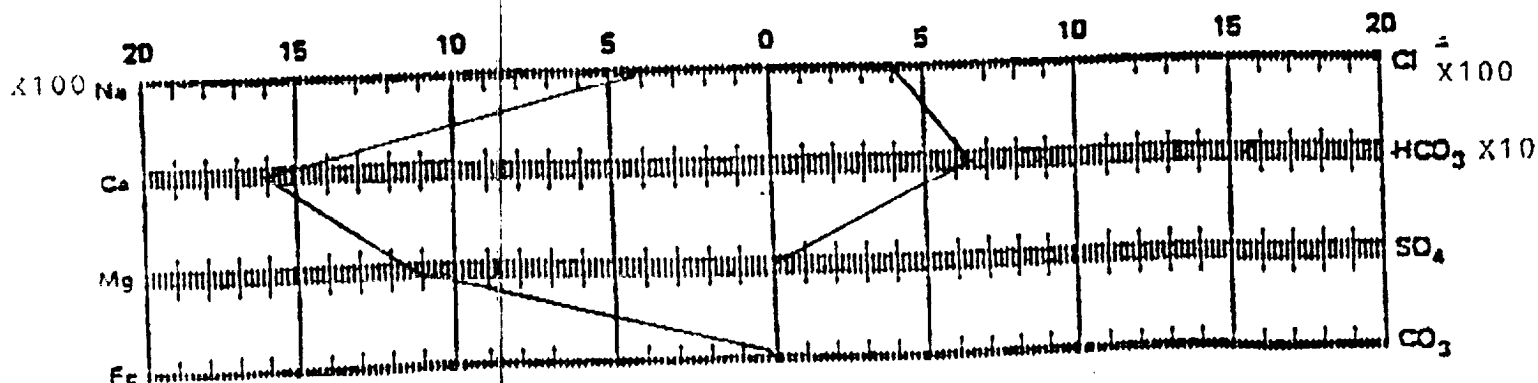
Resistivity 0.27 ohm-meters @ 65 °F. Measured

pH 6.39 @ 65 °F. Measured

Constituents	meq/L	mg/L
Sodium	<u>443.4</u>	<u>10,194</u>
Calcium	<u>16.0</u>	<u>320</u>
Magnesium	<u>11.2</u>	<u>136</u>
Iron	<u>-0-</u>	<u>-0-</u>
Hydrogen Sulfide	<u>Absent</u>	

Constituents	meq/L	mg/L
Chloride	<u>406.6</u>	<u>14,413</u>
Bicarbonate	<u>64.0</u>	<u>3,904</u>
Sulfate	<u>-0-</u>	<u>-0-</u> (Gr)
Carbonate	<u>-0-</u>	<u>-0-</u>
Hydroxide	<u>-0-</u>	<u>-0-</u>

Scale: meq/L



PROPERTY MANAGEMENT & CONSULTING, INC.

P. O. BOX 2596
FARMINGTON, NEW MEXICO 87499-2596
(505) 325-5220

File WA/0840/93
Company PRO NEW MEXICO, INC. Well Name Gracia 8-L #1 Sample No. Two
Formation Fruitland Coal Depth N/A Sampled From Swab Run
Location N/A Field Basin Fruitland County San Juan State NM
Date Sampled 04/26/93 Date Analyzed 04/29/93 Engineer W. D. Stricklin

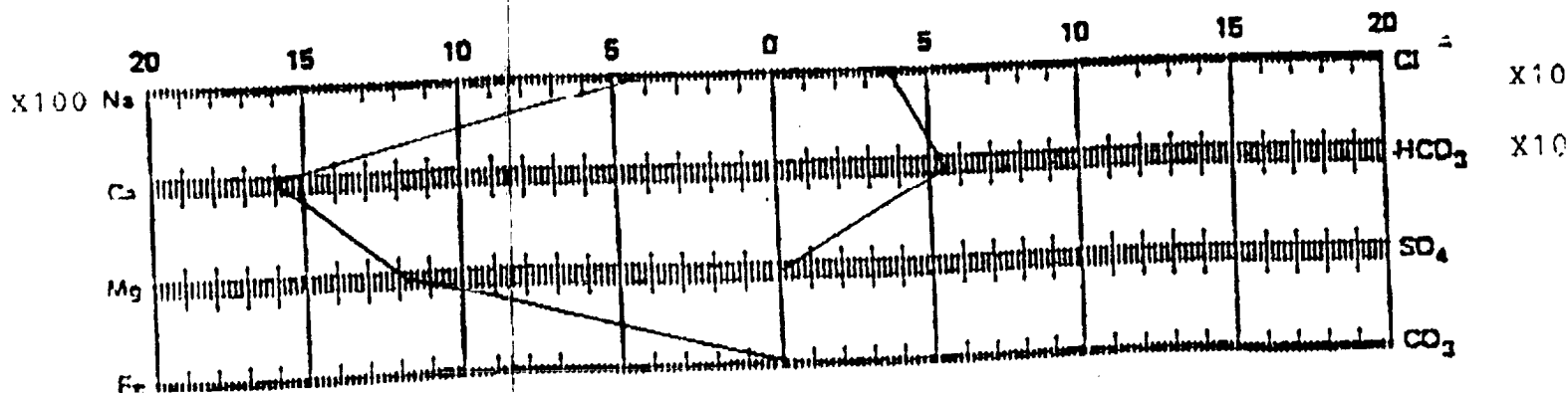
****Note: SAMPLED AT 5:00 PM**

Total Dissolved Solids 27,004 mg/L Calculated Sp. Gr. 1.023 @ 64 °F.
Resistivity 0.29 ohm-meters @ 64 °F. Measured pH 6.37 @ 64 °F. Measure

Constituents	meq/L	mg/L
Sodium	<u>413.0</u>	<u>9,495</u>
Calcium	<u>16.0</u>	<u>320</u>
Magnesium	<u>11.6</u>	<u>141</u>
Iron	<u>-0-</u>	<u>-0-</u>
Hydrogen Sulfide	<u>Absent</u>	

Constituents	meq/L	mg/L
Chloride	<u>384.6</u>	<u>13,632</u>
Bicarbonate	<u>56.0</u>	<u>3,416</u>
Sulfate	<u>-0-</u>	<u>-0-</u> (Gr)
Carbonate	<u>-0-</u>	<u>-0-</u>
Hydroxide	<u>-0-</u>	<u>-0-</u>

Scale: meq/L



PROPERTY MANAGEMENT & CONSULTING, INC.

P. O. BOX 2596
FARMINGTON, NEW MEXICO 87499-2596
(505) 325-5220

File WA/0839/93

Company PRO NEW MEXICO, INC. Well Name Gracia 8-L #1 Sample No. One
Formation Fruitland Coal Depth N/A Sampled From Swab Run
Location N/A Field Basin Fruitland County San Juan State NM
Date Sampled 04/27/93 Date Analyzed 04/29/93 Engineer W. D. Stricklin

**Note: SAMPLED AT NOON

Total Dissolved Solids 26,602 mg/L Calculated Sp. Gr. 1.020 @ 64 °F.
Resistivity 0.29 ohm-meters @ 64 °F. Measured pH 6.40 @ 64 °F. Measured

Constituents	meq/L	mg/L
Sodium	<u>407.0</u>	<u>9,357</u>
Calcium	<u>16.0</u>	<u>320</u>
Magnesium	<u>11.6</u>	<u>141</u>
Iron	<u>0</u>	<u>-0-</u>
Hydrogen Sulfide	<u>Absent</u>	

Constituents	meq/L	mg/L
Chloride	<u>380.6</u>	<u>13,490</u>
Bicarbonate	<u>54.0</u>	<u>3,294</u>
Sulfate	<u>-0-</u>	<u>-0-</u>
Carbonate	<u>-0-</u>	<u>-0-</u>
Hydroxide	<u>-0-</u>	<u>-0-</u>

Scale: meq/L

