

Company: NORTHWEST PIPELINE
Address:

Attention: MIKE TURNBAUGH
Date Sampled: 3/17/88

Report No: 1
Date: 3/23/88
County: RIO ARRIBA
Field: BLANCO M.V.
Formation: MESA VERDE
Lease: BLANCO
Well: ROSA #94

WATER ANALYSIS

Specific Grav:	1.030	pH:	6.70
Chloride:	26,794 mg/l	Calcium:	994 mg/l
Bicarbonate:	976 mg/l	Magnesium:	65 mg/l
Sulfate:	50 mg/l	Total Iron:	0
Sulfide:	0	Sodium:	16,033 mg/l
Total Hardness		Total Dissolved	
(as CaCO ₃):	2,752 mg/l	Solids:	45,664 mg/l
Resistivity:	0.24	Ohm Meters @:	60 F
Potassium:	700 mg/l	Carbonate:	N D

Sample Source: FLUID SAMPLE WAS TAKEN FROM TBG. SOURCE.

Remarks:

FLUID SAMPLE HAS A HIGH SPECIFIC GRAVITY, AND
A LARGE AMOUNT OF T.D.S.

Analyst: JAMES M. SHAW
Smith Representative: MIKE CONREY

BEFORE EXAMINER CATANACH
OIL CONSERVATION DIVISION

EXHIBIT NO. 4

CASE NO. 9401

Company: NORTHWEST PIPELINE
Address:

Attention: MIKE TURNBAUGH
Date Sampled: 3/21/88

Report No: 1
Date: 3/24/88
County: RIO ARRIBA
Field: GOBERNADOR
Formation: MESA VERDE
Lease: BLANCO M.V.
Well: ROSA #45

WATER ANALYSIS

Specific Grav:	1.025	OH:	9.00
Chloride:	18,956 mg/l	Calcium:	794 mg/l
Bicarbonate:	201 mg/l	Magnesium:	223 mg/l
Sulfate:	0	Total Iron:	0
Sulfide:	0	Sodium:	10,763 mg/l
Total Hardness		Total Dissolve	
(as CaCO ₃):	2,902 mg/l	Solids:	31,477 mg/l
Resistivity:	0.25	Ohm Meters @:	60 F
Potassium:	500 mg/l	Carbonate:	N D

Sample Source: FLUID SAMPLE WAS TAKEN FROM WELLHEAD.

Remarks:

FROM A PRECIPITANT TEST. THE SAMPLE SHOWED
A STRONG SULFIDE PRECIPITANT. THE SAMPLE HAD A HIGH
P.H. AND A HIGH SPECIFIC GRAVITY.

Analyst: JAMES M. SHAW
Smith Representative: MIKE CONREY

WATER ANALYSIS

SPECIFIC GRAVITY:	1.045	pH:	7.84
CHLORIDES:	855 mg/l	MAGNESIUM:	31.6 mg/l
BICARBONATES:	11700 mg/l	TOTAL IORN:	0 mg/l
SULFATES:	0 mg/l	SODIUM:	4800 mg/l
SULFIDES	0 mg/l	TOTAL DISSOLVED SOLIDS:	17500 mg/l
POTASSIUM:	0 mg/l	CARBONATES:	0 mg/l
RESISTIVITY:	7.2 ohm meters		
TOTAL HARDNESS:	90.2 mg/l		

SAMPLE SOURCE : TUBING

WELLNAME: SAN JUAN 30-6 UNIT *FRT.*

LOCATION: NE/4, T30N, R7W, RIO ARriba COUNTY