

Well pumping test discharge
from 8 monitor well

Location PNM - Person Station

Date Sample Collected 1/30/85

State Lab Other Lab CEP Ince
Santa Fe, NM
982-9841

REPORT OF SAMPLE ANALYSES

(Anion-Cation Balance)

CATIONS			ANIONS		
	(mg/l)		(mg/l)		(mg/l)
		(meq/l) %		(meq/l) %	
Calcium	27	x 0.04990 = <u>1.34730</u>	Bicarbonate	48.8	x 0.01639 = <u>0.79983</u>
Magnesium	7	x 0.08226 = <u>0.57582</u>	Carbonate		x 0.03333 =
Potassium	9	x 0.02557 = <u>0.23013</u>	Chloride	61	x 0.02821 = <u>1.72081</u>
Sodium	70	x 0.04350 = <u>3.04500</u>	Fluoride	0.61	x 0.05264 = <u>0.03211</u>
			Sulfate	90	x 0.02082 = <u>1.87380</u>
			NO ₃ as N	1.3	x 0.07142 = <u>0.09285</u>
			TOTAL		<u>4.51940</u>
			TOTAL		<u>5.19825</u>

$$\text{Percent Difference} = \frac{(\text{meq/l CATIONS}) - (\text{meq/l ANIONS})}{(\text{meq/l CATIONS}) + (\text{meq/l ANIONS})}$$

$$\text{Percent Difference} = 0.069$$

(Dissolved Solids)

TDS evaporation @ 180° =

Σ ions =
 (NOTE: multiply HCO₃ mg/l by 0.4917)

COMMENTS:

	<u>HCO₃</u>		<u>CaCO₃</u>
	<u>At. wt</u>		
H	1.01	Ca	40.08
C	12.01	C	12.01
O ₃	<u>16.00 x 3</u>	O ₃	<u>16.00 x 3</u>
	<u>61 mole wt</u>		<u>100 mole wt</u>

$$\frac{61 \text{ (HCO}_3\text{)}}{100 \text{ (CaCO}_3\text{)}} =$$

$$\frac{\text{X mg/l HCO}_3}{80 \text{ mg/l CaCO}_3}$$

$$\text{HCO}_3 \text{ mg/l} = 48.8$$