

## ANALYSIS - SANTA ROSA WATER

POGO PRODUCING COMPANY

EXHIBIT 4

Proximity "31" Federal #4

Section 31, TWP 22-S, R 32-E

Lea County, New Mexico

## Chemical and radiochemical analyses of water from test hole H-5

Water produced from the Santa Rosa Sandstone, sample taken 5/24/78

Alkalinity Field (mg/l as HCO <sub>3</sub> )	200
Bicarbonate FET-FLD (mg/l as HCO <sub>3</sub> )	240
Nitrogen, NO <sub>2</sub> + NO <sub>3</sub> Dissolved (mg/l as N)	0.36
Hardness (mg/l as CaCO <sub>3</sub> )	150
Hardness, noncarbonate(mg/l as CaCO <sub>3</sub> )	150
Calcium Dissolved (mg/l as Ca)	56
Magnesium, Dissolved (mg/l as Mg)	51
Sodium, Dissolved (mg/l as Na)	280
Potassium, Dissolved (mg/l as K)	25
Chloride, Dissolved (mg/s as Cl)	120
Sulfate, Dissolved (mg/l as SO <sub>4</sub> )	530
Fluoride, Dissolved (mg/l as F)	1.2
Silica, Dissolved (mg/l as SiO <sub>2</sub> )	11.0
Boron, Dissolved (ug/l as B)	890
Solids Residue at 105 Deg C, Dissolved (mg/l)	1200