

FEB 08 1983

PERMEABILITY VS POROSITY

O. C. D.
ARTESIA, OFFICE

COMPANY: SANTA RITA EXPLORATION CORP. WELL : MOONSHINE NO. 18-4
FIELD : TWIN LAKES FIELD COUNTY, STATE: CHAVES COUNTY, NEW MEXICO

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
POROSITY : PERCENT (HELIUM)

DEPTH INTERVAL	RANGE & SYMBOL	PERMEABILITY MINIMUM MAXIMUM	POROSITY MIN. MAX.	POROSITY AVERAGE	PERMEABILITY AVERAGES	
					ARITHMETIC	HARMONIC GEOMETRIC
4.0 - 2744.0	1 (+)	0.010 5000.0	0.0 40.0	4.9	108.	0.15 1.3

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :
 $\text{LOG}(K) = (\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT}$
 $K = \text{ANTILOG}((\text{SLOPE})(\text{POROSITY}) + \text{LOG OF INTERCEPT})$

RANGE EQUATION OF THE LINE

1 PERM = ANTILOG((0.2711)(POROSITY) + -1.1985)