

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 9, 1965

Operator El Paso Natural Gas Company		Lease Indianish Unit No. 50	
Location W-2-11, S-2-11, Section 31, T-24-N, R-2-W		County Rio Arriba	State New Mexico
Formation Flinted Cliffs		Pool South Blanco	
Casing Diameter 2.075	Set At: Feet 3181	Tubing Diameter No. 2.075	Set At: Feet
Pay Zone: From 3014	To 3214	Total Depth: 3200	Shut In 7-2-65
Stimulation Method Sand Water Drive		Flow Through Casing 1	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 1.157		Equivalent Well Permeability	
Shut-In Pressure, Casing 22.313 PSIG	+ 12 = PSIA 34.313	Days Shut-In 7	Shut-In Pressure, Tubing 22.313 PSIG	+ 12 = PSIA 34.313	
Flowing Pressure: P 200 PSIG	+ 12 = PSIA 320	Working Pressure: P _w 600 PSIG	+ 12 = PSIA 720		
Temperature: T = 66 °F	n = .85	F _{pv} (From Tables) 1.070	Gravity .600	F _g = .9333	

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = (22.313) (600) (.9333) (.9333) (1.070) = 7,783 \text{ MCF/D}$$

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{933,156}{321,632} \right)^{.85} = (74.08) (2.9013)^{.85} = (74.08) (2.4705)$$

$$Aof = 18,717 \text{ MCF/D}$$

TESTED BY O. R. H. [Signature]
 CALCULATED BY H. E. McManally
 WITNESSED BY _____



[Signature]
 Lewis D. Calloway