

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADUAL COMPLETIONDATE November 20, 1957

Operator El Paso Natural Gas Company		Lease Bolack No. 3-B	
Location 790'S, 2200'W, Sec. 33-28-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8	Set At: Feet 2362	Tubing: Diameter 2"	Set At: Feet 4474
Pay Zone: From 4110	To 4596	Total Depth: 4640	
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365		5-1/2" liner. 2312-4635	
Shut-In Pressure, Casing. PC	PSIG	12 = PSIA	Days Shut-In 24	Shut-In Pressure, Tubing 1032	PSIG - 12 = PSIA 1044
Flowing Pressure: P 412	PSIG	12 = PSIA	424	Working Pressure: P _w Calculated	PSIG - 12 = PSIA 806
Temperature: T 59	°F	n =	0.75	Fpv (From Tables) 1.057	Gravity .715

Final SIPC (PC) - 860 psig. 1-1/4" at 2218. Packer at 2353. Sleeve at 2225

CHOKE VOLUME = Q = C x P₁ x F₁ x F_g x F_{av}

$$Q = 12.365 \times 424 \times 1.0010 \times .9161 \times 1.057 = 5082 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,089,936}{440,300} \right)^n = 2.4754^{.75} \times 5082 = 1.974 \times 5082$$

$$Aof = 10,032 \text{ MCF/D}$$

TESTED BY S. V. Roberts

WITNESSED BY _____

cc: E. S. Oberly (6)

By: J. B. Grant
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