

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE November 13, 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 Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 2362	Tubing: Diameter 1-1/4	Set At: Feet 2218
Per. Zone: From 2176	To 2207	Total Depth: 4640	
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750	Choke Constant: C 12.365		5-1/2" liner - 2312-4635	
Shut-in Pressure: Casing, PSIG PC 856	- 12 - PSIA 868	Days Shut-In 17	Shut-in Pressure: Tubing, PSIG PC 856	- 12 - PSIA 868
Flowing Pressure: P, PSIG 194	- 12 - PSIA 206		Working Pressure: P _w , PSIG 198	- 12 - PSIA 210
Temperature: T, F 62	F, n 0.85		F _{pv} (From Tables) 1.017	Gravity 0.620

Initial SIPT (MV) - 1027 psig; Final - 1027 psig. 2" at 4474. Packer at 2353. Sleeve at 2225

CHOKE VOLUME $Q = C \times P_c \times F_c \times F_g \times F_{pv}$

$$Q = 12.365 \times 194 \times .9981 \times .9837 \times 1.017 = 2395 \text{ MCF/D}$$

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

$$A_{of} = \left(\frac{753,424}{709,324} \right)^n \cdot 1.0621^{.85} \times 2395 = 1.0525 \times 2395$$

A_{of} 2521 MCF/D

TESTED BY S. V. Roberts

WITNESSED BY _____

cc: E. S. Oberly (6)

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