

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE July 31, 1957

Operator El Paso Natural Gas Company		Lease San Juan 27-5 #27	
Location 990'S 890'W 26-27-5		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool Undesignated	
Casing: Diameter 7-5/8	Set At: Feet 3495	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3296	To 3329	Total Depth: 5700 c/o 5610 Packer @3570	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		5-1/2 liner 3448 to 5704	
Shut-In Pressure, Casing, PSIG 1079 (PC)	- 12 = PSIA 1091	Days Shut-In 33	Shut-In Pressure, Tubing PSIG 1146 (MW)	- 12 = PSIA 1158	
Flowing Pressure: P PSIG 946	- 12 = PSIA 958		Working Pressure: P _w PSIG Calculated	- 12 = PSIA 961	
Temperature: T °F 74	n = .85		F _{pv} (From Tables) 1.114	Gravity .700	

Ending Mesa Verde SIPT 1152 Psig .

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

$$Q = 12.365 \times 958 \times .9868 \times .9258 \times 1.114$$

12.056

MCF/D

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

$$A_{of} \left(\frac{1,190,281}{266,760} \right)^n = 12.056 \times 4.4619^{.85} = 12.056 \times 3,653$$

$$A_{of} = 42,983 \text{ MCF/D}$$

TESTED BY K. C. McBrideWITNESSED BY Fred Cook (NMOC)

cc: E. J. Coel, Jr. (6)

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