

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE May 15, 1958

Operator El Paso Natural Gas		Lease Bolack No. 13-C (M)	
Location 960S, 800W; 29-27-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7-5/8"	Set At: Feet 4417	Tubing: Diameter 2"	Set At: Feet 4751
Pay Zone: From 4630	To 4740	Total Depth: 4830	Shut-in 5-1/58 X
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		5-1/2" liner 4374 - 4825	
Shut-In Pressure, Casing, PSIG (PC) 669	- 12 = PSIA 681	Days Shut-In 14	Shut-in Pressure, Tubing, PSIG (MV) 1088	- 12 = PSIA 1100	
Flowing Pressure: P, PSIG 153	- 12 = PSIA 165		Working Pressure: Pw, PSIG (Calc) 310	- 12 = PSIA	
Temperature: T, °F 66	n .75		Fpv (From Tables) 1.019	Gravity .73	

Initial SIPC (PC) 669 psig

Packer at 4441', 1-1/4 at 2413

Final SIPC (PC) 669 psig

CHOKE VOLUME: $Q = C \times P_r \times F_v \times F_g \times F_{pv}$

$$Q = 12.365 (165) (.9943) (.9066) (1.019) = 1,874 \text{ MCF/D}$$

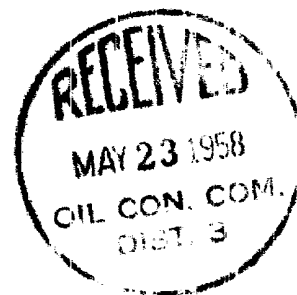
$$\text{OPEN FLOW } Aof = Q \left(\frac{P_r^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{1,210,000}{1,113,900} \right)^n = (1.0862)^{.75} (1,874) = (1.0640) (1,874)$$

$$Aof = 1,994 \text{ MCF/D}$$

TESTED BY Robert R. Davis

WITNESSED BY _____



Lewis D. Galloway
L. D. Galloway

INVESTIGATION COMMISSION

OFFICE

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