

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE April 16, 1958

Operator El Paso Natural Gas		Lease Bolack 12-C (M)	
Location 820N, 990E, 29-27-8		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco Mesa Verde	
Casing Diameter 7-5/8	Set At: Feet 4425	Tubing Diameter 2"	Set At: Feet 4667
Pay Zone: From 4554	To 4688	Total Depth: 4736	Shut-in 4-7-58
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 3/4	Choke Constant: C 12.365	5-1/2" liner from 4357 to 4736	
Shut-In Pressure, Casing, PSIG 818 (PC)	PSIG - 12 = PSIA 830	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG 1064 (MV)
Flowing Pressure: P 192	PSIG - 12 = PSIA 204	Working Pressure: P _w Calculated	PSIG - 12 = PSIA 229
Temperature: T 57	F .75	F _{pv} (From Tables) 1.024	Gravity .709

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

$$Q_c = 12.365 \times 204 \times 1.0048 \times .9225 \times 1.024 = 2394 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,157,776}{1,105,335} \right)^n \quad 1.0474^{.75} \times 2394 = 1.0354 \times 2394$$

$$Aof = 2479 \text{ MCF/D}$$

TESTED BY: Robert ProctorWITNESSED BY: Malcolm W. RischardChecked By: S. V. Roberts

Lewis D. Galloway
L. D. Galloway

OIL CONSERVATION COMMISSION

SETTLEMENT

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