

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE March 7, 1963

Operator El Paso Natural Gas Company		Lease Rincon No. 185 (OWD)	
Location 990'N, 990'E, Sec. 22-27-7		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7593	Tubing: Diameter 2.375	Set At: Feet 7467
Pay Zone: From 7342	To 7496	Total Depth: 7594	Shut In 2-12-63
Stimulation Method Sand Water Frec.		Flow Through Casing	Flow Through Tubing X

Choke Size, inches .75		Choke Constant: C 12.365	
Shut-In Pressure, Casing, PSIG 1682	+ 12 = PSIA 1694	Days Shut-In 23	Shut-In Pressure, Tubing PSIG 1734
Flowing Pressure: P PSIG 134	+ 12 = PSIA 146	Working Pressure: P _w PSIG 546	+ 12 = PSIA 558
Temperature: T 64	F _g .9962	F _{pv} (From Tables) 1.019	Gravity .750 F _g .8944

CHOKE VOLUME: $Q = C \times P_1 \times F_g \times F_p \times F_{pv}$

$$Q = (12.365)(146)(.9962)(.8944)(1.019) = 1639 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,048,516}{2,737,152} \right)^n = (1.1137)^{.75} (1639) = (1.0840)(1639)$$

NOTE: Heavy spray of water throughout test.

$$Aof = 1777 \text{ MCF/D}$$

TESTED BY Herman E. McAnally

WITNESSED BY _____

Checked by Tom B. Grant

Lewis D. Galloway
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