

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE February 16, 1970

Operator El Paso Natural Gas Co.		Lease Huerfano U. No. 207	
Location 990' S, 990' E, S 20, T26N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6636	Tubing: Diameter 2.375	Set At: Feet 6507
Pay Zone: From 6434	To 6546	Total Depth: 6636	Shut In 2-9-70
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR 2.750 plate		Choke Constant: C 41.9208		Well tested thru 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1699	+ 12 = PSIA 1711	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1644	+ 12 = PSIA 1656	
Flowing Pressure: P PSIG 261 WH 90 MR	+ 12 = PSIA 273 WH 102 MR		Working Pressure: P _w PSIG 655	+ 12 = PSIA 667	
Temperature: T = 81 °F F _t = .9777	n = .75		F _{pv} (From Tables) 1.010	Gravity .700 F _g = 1.1952	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = 3052 \text{ MCF/D}$$

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

Note: The well produced 26.11 bbls. of
45.6 API gravity oil during the test.

$$Aof = \left(\frac{2927521}{2482632} \right)^n = (3052)(1.1792)^{.75} = (3052)(1.1316)$$

$$Aof = 3454 \text{ MCF/D}$$

TESTED BY TDN, BJB, JBG, DRR

WITNESSED BY



E. H. Keedick