

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 15, 1974

Operator El Paso Natural Gas Company		Lease Huerfano Unit #249	
Location 1550/N, 1180/W, Sec. 8, T26N, R9W		County San Juan	State New Mexico
Formation Gallun		Pool Angels Peak	
Casing: Diameter 4.500	Set At: Feet 6131'	Tubing: Diameter 2.375	Set At: Feet 6085'
Pay Zone: From 5720'	To 6094'	Total Depth: PBD 6130' 6124'	Shut In 8-8-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR		Orifice 2.500		Orifice Choke Constant: C 32.64		Well tested thru a 3/4" variable choke.	
Shut-In Pressure, Casing, 711	PSIG	+ 12 = PSIA 723	Days Shut-In 7	Shut-In Pressure, Tubing 711	PSIG	+ 12 = PSIA 723	
Flowing Pressure: P 15	PSIG	+ 12 = PSIA 27		Working Pressure: P _w 16	PSIG	+ 12 = PSIA 28	
Temperature: T = 81 °F		n = .75		F _{pv} (From Tables) 1.0030		Gravity .720	F _g = 1.179

$$\text{CHOKE VOLUME} = Q = C \times P_t \times F_t \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings.} = 212 \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{522729}{522473} \right)^n = 212(1.0005)^{.75} = 212(1.0037)$$

$$Aof = 212 \text{ MCF/D}$$

Note: The well produced a dry gas flow.

TESTED BY Hardie & Goodwin

WITNESSED BY

Loren W. Fothergill
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Well Test Engineer

