

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 3, 1974

Operator El Paso Natural Gas Company		Lease Huerfano Unit #254	
Location 1800/S, 800/E, Sec. 13, T26N, R10W		County San Juan	State New Mexico
Formation Gallup		Pool Angel Peak	
Casing: Diameter 4.500	Set At: Feet 6086'	Tubing: Diameter 2.375	Set At: Feet 6035'
Pay Zone: From 5623'	To 6044'	Total Depth: PBDT 6086' 6070'	Shut In 11-4-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR	Orifice 2.500	Meter Choke Constant: C 32.64	Well tested thru a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 622	+ 12 = PSIA 634	Days Shut-In 29	Shut-In Pressure, Tubing PSIG 622	+ 12 = PSIA 634
Flowing Pressure: P PSIG WH 6 MR 1	+ 12 = PSIA WH 18 MR 13		Working Pressure: Pw PSIG 360	+ 12 = PSIA 372
Temperature: T= 58 °F	Ft= 1.002	n = .75	Fpv (From Tables) 1.004	Gravity .720 Fg = 1.179

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = \text{Calculated thru orifice meter readings} = \underline{\quad 441 \quad} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{401956}{263572} \right)^n = 441 (1.5250)^{.75} = 441(1.3723)$$

$$Aof = \underline{\quad 606 \quad} \text{ MCF/D}$$

Note: The well produced 10.44 Bbl. of
39.7 API gravity oil.

TESTED BY Johnson & Goodwin

WITNESSED BY _____

Loren W. Fothergill
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Well Test Engineer

