

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 25, 1974

Operator El Paso Natural Gas Company		Lease Huerfano Unit #252	
Location 1755/S, 1050/E, Sec. 1, T26N, R10W		County San Juan	State New Mexico
Formation Gallup		Pool Angel Peak	
Casing: Diameter 4.500	Set At: Feet 6240'	Tubing: Diameter 2.375	Set At: Feet 6161'
Pay Zone: From 5900'	To 6168'	Total Depth: PBSD 6240' 6229'	Shut In 11-18-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

MR Choke Size, Inches 4" MR	Orifice 2.50	Orifice 32.64	Choke Constant: C		Well tested thru a 3/4" variable choke.	
Shut-In Pressure, Casing, 531	PSIG	+ 12 = PSIA 543	Days Shut-In 7	Shut-In Pressure, Tubing 537	PSIG	+ 12 = PSIA 549
Flowing Pressure: P WH 5 MR 1	PSIG	+ 12 = PSIA WH 17 MR 13		Working Pressure: P _w 198	PSIG	+ 12 = PSIA 210
Temperature: T = 84 °F	F _t = 0.9777	n = .75		F _{pv} (From Tables) 1.003	Gravity .720	F _g = 1.179

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

$$Q = \text{Calculated from orifice readings} = \underline{\quad 136 \quad} \text{ MCF/D}$$

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

$$A_{of} = Q \left(\frac{301401}{257301} \right)^n = 136(1.1714)^{.75} = 136(1.1260)$$

$$A_{of} = \underline{\quad 153 \quad} \text{ MCF/D}$$

Note: The well produced traces of oil and water.

TESTED BY Norton & Rhames

WITNESSED BY _____

Loren W. Fothergill
Loren W. Fothergill
Well Test Engineer

