

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 11, 1974

Operator El Paso Natural Gas Company		Lease Huerfano Unit #261	
Location 990/S, 1650/W, Sec. 20, T26N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6576'	Tubing: Diameter 2.375	Set At: Feet 6510'
Pay Zone: From 6370'	To 6528'	Total Depth: PBD 6576' 6562'	Shut In 6-28-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR	Orifice 2.750	Orifice Choke Constant: C 41.10			
Shut-In Pressure, Casing, PSIG 1355	+ 12 = PSIA 1367	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 776	+ 12 = PSIA 788	
Flowing Pressure: P PSIG 59	+ 12 = PSIA 71		Working Pressure: P _w PSIG 648	+ 12 = PSIA 660	
Temperature: T = 78 °F	F _t = .9831	n = .75	F _{pv} (From Tables) 1.010	Gravity .710	F _g = 1.187

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

$$Q = \text{Calculated from orifice meter readings} = \underline{\quad 260 \quad} \text{ MCF/D}$$

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

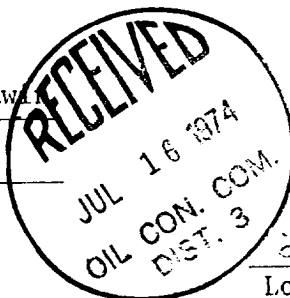
$$Aof = Q \left(\frac{1868689}{1433089} \right)^n = 260(1.3040)^{.75} = 260(1.2202)$$

$$Aof = \underline{\quad 317 \quad} \text{ MCF/D}$$

Note: The well produced 41.02 BBls of 43.4 gravity oil.

TESTED BY L.W. Fothergill, J.B. Goodwin

WITNESSED BY _____



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Well Test Engineer