

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE January 19, 1976

Operator El Paso Natural Gas Company		Lease Huerfano Unit #265 (DK)	
Location 800'/N, 1150'/W, Sec. 12, T26N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 9.625	Set At: Feet 7095'	Tubing: Diameter 2.375	Set At: Feet 6869'
Pay Zone: From 6810	To 6887	Total Depth: PBTD 7095' 7020	Shut In 12-29-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.500 4" M.R.		Plate Choke Constant: C 32.64		Tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In 22	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
			563	575	
Flowing Pressure: P PSIG	+ 12 = PSIA	Working Pressure: P _w PSIG	+ 12 = PSIA		
82 W.H., 13 M.R.	94 W.H., 25 M.R.	Calculated	192		
Temperature: T = 58 °F	F _t = 1.002	n = 0.75	F _{pv} (From Tables) 1.004	Gravity 0.710	F _g = 1.187

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

$$Q = \text{Calculated from meter readings} = \underline{1032} \text{ MCF/D}$$

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

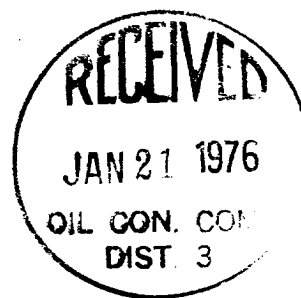
$$Aof = Q \left(\frac{330625}{293761} \right)^{0.75} = 1032(1.1255)^{0.75} = 1032(1.0927)$$

$$Aof = \underline{1128} \text{ MCF/D}$$

Note: During 3 hr. test, well produced 25 bbls. of 35.7° API oil, 8 bbls. water and 9007 MCF gas.

TESTED BY Hardy & Norton

WITNESSED BY _____



Charles W. Norton
Well Test Engineer