

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE May 08, 1975

Operator El Paso Natural Gas Company		Lease Huerfano Unit #273	
Location 1840'S, 900'W, Sec. 33, T26N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6658'	Tubing: Diameter 2.375	Set At: Feet 6619'
Pay Zone: From 6466	To 6628	Total Depth: PBD 6658 6649	Shut In 4-22-75
Stimulation Method Sandwater FRac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.750 4" M.R.		Plate Choke Constant: C 41.10		Tested through a 3/4" variable choke.	
Shut-In Pressure, Casing, PSIG 1875	+ 12 = PSIA 1887	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 1627	+ 12 = PSIA 1639	
Flowing Pressure: P PSIG 87 M.R. W.H. 302	+ 12 = PSIA 99 M.R. WH 314	Working Pressure: P <sub>w</sub> PSIG 710	+ 12 = PSIA 722		
Temperature: T = 67 °F F <sub>t</sub> = .9933	n = .750	F <sub>pv</sub> (From Tables) 1.011	Gravity .710	F <sub>g</sub> = 1.187	

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

$$Q = \text{Calculated from orifice meter readings} = 2827 \text{ MCF/D}$$

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

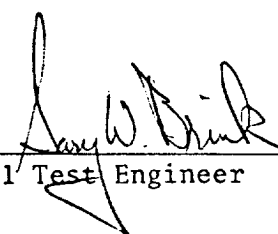
$$Aof = Q \left( \frac{3560769}{3039485} \right)^n = 2827(1.1715)^{.75} = 2827(1.1260)$$

$$Aof = 3183 \text{ MCF/D}$$

Note: This well produced 30 Bbl. of water and 17 Bbl 45.30 API gravity during the test. Test vented 480 MCF to the atmosphere.

TESTED BY G. Brink

WITNESSED BY H. McAnally

  
Well Test Engineer
