

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE September 15, 1965

Operator El Paso Natural Gas Company		Lease Huerfanito Unit No. 76 (OWNO)	
Location 1450'N, 1450'E, Sec. 2, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6763	Tubing: Diameter 2.375	Set At: Feet 6487
Pay Zone: From 6414	To 6520	Total Depth: P.B.T.D. 6528	Shut In 9-8-65
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1379	+ 12 = PSIA 1391	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1379	+ 12 = PSIA 1391	
Flowing Pressure: P PSIG 66	+ 12 = PSIA 78		Working Pressure: P _w PSIG 305	+ 12 = PSIA 317	
Temperature: T = 71 °F	F_t = .9896	n = .75	F _{pv} (From Tables) 1.008	Gravity .675	F_g = .9427

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

$$Q = 12.365 \times 78 \times .9896 \times .9427 \times 1.008 = \underline{907} \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,934,881}{1,834,392} \right)^n = (907) (1.0547)^{.75} = 1.0408 \times 907 =$$

NOTE: Blew light water fog entire test.

$$Aof = \underline{944} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

CHECKED BY Herman E. McAnally


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