

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE 10-8-70

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 160 (OWPB)	
Location 990 S, 1800 E, S 17, T26N, R9W		County San Juan	State New Mexico
Formation Gallup		Pool Undesignated	
Casing: Diameter 4.500	Set At: Feet 6736	Tubing: Diameter 2.375	Set At: Feet 5901
Pay Zone: From 5740	To 5908	Total Depth: 6396	Shut In 9-22-70
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 4" MR, 2.750 orifice		Choke Constant: C 41.9208		well tested through 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 992	+ 12 = PSIA 1004	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 753	+ 12 = PSIA 765	
Flowing Pressure: P PSIG MR-7, WH-52	+ 12 = PSIA MR-19, WH-64		Working Pressure: P _w PSIG 327	+ 12 = PSIA 339	
Temperature: T = 88 °F	n = Ft = .9741		Fpv (From Tables) 1.004	Gravity .750	Fg = 1.1547

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

$$Q = \text{Calculated from orifice readings} = \underline{472} \text{ MCF/D}$$

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

Note: well made 8.21 bbls. of 32.7° API gravity oil during the test, and 8.95 bbls. water.

$$Aof = \left(\frac{1008016}{893095} \right)^n = (1.1286)^{.75} 472 = (1.0950)(472)$$

$$Aof = \underline{517} \text{ MCF/D}$$

TESTED BY D. R. Roberts & B. J. Broughton

WITNESSED BY _____

H. L. Kendrick
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