

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE June 6, 1968

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 175	
Location 890'S, 1650'E, Sec. 14, T-26-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6890	Tubing: Diameter 2.375	Set At: Feet 6591
Pay Zone: From 6770	To 6844	Total Depth: 6890	Shut In 5-11-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2.5" plate; 4" MR		Choke Constant: C 33.2928		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1917	+ 12 = PSIA 1929	Days Shut-In 26	Shut-In Pressure, Tubing PSIG 1948	+ 12 = PSIA 1960	
Flowing Pressure: P PSIG 158 MR; 413 WH	+ 12 = PSIA 170 MR; 425 WH		Working Pressure: P <sub>w</sub> PSIG 979	+ 12 = PSIA 991	
Temperature: T = 84 °F	F <sub>t</sub> = .9777	n = .75	F <sub>pv</sub> (From Tables) 1.017	Gravity .700	F <sub>g</sub> = 1.1952

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

$$Q = \text{Calculated from orifice meter reading} = 4450 \text{ MCF/D}$$

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

$$Aof = \left( \frac{3841600}{2859519} \right)^n = (4450)(1.3434)^{.75} = (4450)(1.2478)$$

NOTE: This well produced 59.29 bbls. of 53.5 API gravity oil into the tank during the three hour test.

$$Aof = 5553 \text{ MCF/D}$$

TESTED BY George A Lippman

CHECKED  
WITNESSED BY T. B. Grant

  
T. B. Grant