

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 28, 1968

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 181	
Location 800'N, 1650'W, Sec. 26, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6744	Tubing: Diameter 2.375	Set At: Feet 6411
Pay Zone: From 6427	To 6659	Total Depth: 6744	Shut In 8-20-68
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 3/4" plate; 4" M.R.		Choke Constant: C 41.9208		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1964	+ 12 = PSIA 1976	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1959	+ 12 = PSIA 1971	
Flowing Pressure: P 114 M.R. 269 W.H. PSIG	+ 12 = PSIA 126 M.R. 281 W.H.	Working Pressure: P <sub>w</sub> PSIG 569	+ 12 = PSIA 581		
Temperature: T = 68 °F	F <sub>t</sub> = .9924	n = .75	F <sub>pv</sub> (From Tables) 1.014	Gravity .700	F <sub>g</sub> = 1.1952

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

$$Q = \text{Calculated from orifice meter readings} = 3662 \text{ MCF/D}$$

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

$$A_{of} = \left( \frac{3904576}{3567015} \right)^n = (3662)(1.0946)^{.75} = (3662)(1.0701)$$

Note: The well produced 8.21 bbls. of water during the test.

$$A_{of} = 3919 \text{ MCF/D}$$

TESTED BY JesseB. Goodwin & Don NortonCalculated  
WITNESSED BY H. E. McAnally

*H. L. Kendrick*  
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