

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE January 23, 1974

Operator El Paso Natural Gas Company		Lease Huerfano Unit Com #118	
Location 1650/S, 1650/E, Sec. 30, T27N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6344'	Tubing: Diameter 2.375	Set At: Feet 6314'
Pay Zone: From 6124	To 6310	Total Depth: PBSD 6344 6326	Shut In 1-15-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Meter Choke Size, Inches 4" MR	Orifice 2.75	Meter Choke Constant: C 41.10	Well tested thru 48/64 choke		
Shut-In Pressure, Casing, PSIG 1880	+ 12 = PSIA 1892	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 960	+ 12 = PSIA 972	
Flowing Pressure: P PSIG 160	+ 12 = PSIA 172		Working Pressure: Pw PSIG 567	+ 12 = PSIA 579	
Temperature: T = 80 °F	Ft = .9813	n = .75	Fpv (From Tables) 1.018	Gravity .710	Fg = .9193

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

$$Q = \text{Calculated from meter readings} = \underline{\hspace{2cm}} 1092 \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{3579664}{3244423} \right)^n = 1092(1.1033)^{.75} = 1092(1.0765)$$

$$Aof = \underline{\hspace{2cm}} 1176 \text{ MCF/D}$$

Note: Well produced 46.6 of oil at 43.8 gravity and 2.92 bbls of water during test.

TESTED BY Rhames

WITNESSED BY \_\_\_\_\_

Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer

