

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE August 21, 1968

Operator El Paso Natural Gas Company		Lease Huerrfano Unit No. 182	
Location 990'N, 890'W, Sec. 28, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6775	Tubing: Diameter 2.375	Set At: Feet 6447
Pay Zone: From 6462	To 6636	Total Depth: 6775	Shut In 8-1-68
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			
Shut-In Pressure, Casing, PSIG 1808	+ 12 = PSIA 1820	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 1846	+ 12 = PSIA 1858	
Flowing Pressure: P PSIG 93 M.R.; 289 W.H.	+ 12 = PSIA 105 M.R.; 301 W.H.		Working Pressure: Pw PSIG 715	+ 12 = PSIA 727	
Temperature: T = 91 °F	n = Ft = .9715		Fpv (From Tables) 1.009	Gravity .700	Fg = 1.1952

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = \text{Calculated from orifice meter readings} = \underline{2891} \text{ MCF/D}$$

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

$$Aof = \left( \frac{3452164}{2923635} \right)^n = (2891)(1.1807)^{.75} = (2891)(1.1328)$$

Note: The well produced a total of 76.08 bbls. of 47.1° API gravity oil during the three hour test.

$$Aof = \underline{3275} \text{ MCF/D}$$

TESTED BY Dannie Roberts & Bobby BroughtonCalculated by H. E. McAnally

WITNESSED BY

*H. L. Kendrick*  
H. L. Kendrick

