

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE June 26, 1974

Operator El Paso Natural Gas Company		Lease Huerfano Unit #68	
Location 1700/N, 1500/E, Sec. 7, T26N, R10W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6805'	Tubing: Diameter 2.375	Set At: Feet 6721'
Pay Zone: From 6576	To 6724	Total Depth: PBD 6805' 6780'	Shut In 6-10-74
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Plate Choke Size, Inches 2.750"		Choke Constant: C 41.10		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1870	+ 12 = PSIA 1882	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 980	+ 12 = PSIA 992	
Flowing Pressure: P PSIG 153 W.H.; 38 M.R.	+ 12 = PSIA 165 W.H.; 50 M.R.		Working Pressure: P <sub>w</sub> PSIG 585	+ 12 = PSIA 597	
Temperature: T = 72 °F	n = F <sub>t</sub> = 0.9887		F <sub>pv</sub> (From Tables) 1.004	Gravity .720	F <sub>g</sub> = 1.1785

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

$$Q = \text{Calculated from orifice meter reading.} = \underline{1224} \text{ MCF/D}$$

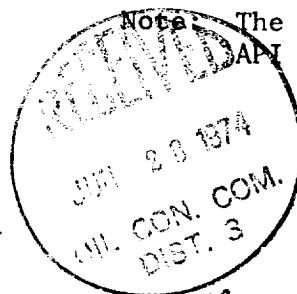
$$\text{OPEN FLOW} = Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = Q \left( \frac{3541924}{3185515} \right)^n = 1224(1.1119)^{.75} = (1224)(1.0829)$$

$$Aof = \underline{1325} \text{ MCF/D}$$

TESTED BY Frank Johnson, H. McAnally

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



Note: The well produced 51 bbls of 42.1 API gravity oil.

Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer