

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE June 7, 1967

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 102	
Location 900'S, 1650'E, Sec. 24, T-26-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6745	Tubing: Diameter 2.375	Set At: Feet 6471
Pay Zone: From 6526	To 6652	Total Depth: 6745	Shut In 5-30-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 1/2" Flare; 4" M. R.		Choke Constant: C 33.293		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1778	+ 12 = PSIA 1790	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1735	+ 12 = PSIA 1747	
Flowing Pressure: P meter 153 wellhead 386	+ 12 = PSIA meter 165 W. H. 398		Working Pressure: Pw PSIG 935	+ 12 = PSIA 947	
Temperature: T = 66 °F	n = .75		Fpv (From Tables) 1.018	Gravity .700	Fg = 1.1952

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

$$Q = \text{Calculated from orifice meter reading} = 4331 \text{ MCF/D}$$

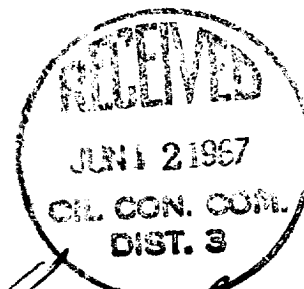
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{3229209}{2332400} \right)^n$$

$$= (4331)(1.3845)^{.75} = (4331)(1.2765)$$

NOTE: The well produced 44.7 bbls. of 46 API gravity oil during the test.

$$Aof = 5529 \text{ MCF/D}$$

TESTED BY R. F. HeadrickCHECKED BY H. E. McAnally

H. L. Kendrick
H. L. Kendrick

By T-66.