

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-21-67

Operator El Paso Natural Gas Company		Lease Huerfano Unit No. 161	
Location 900'S, 1750'E, Sec. 18, T-26-N, R-9-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6710	Tubing: Diameter 2.375	Set At: Feet 6460
Pay Zone: From 6512	To 6624	Total Depth: 6710	Shut In 6-1-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 2 1/2" plate 4" M.R.		Orifice Choke Constant: C 33.293		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG 1869	+ 12 = PSIA 1881	Days Shut-In 20	Shut-In Pressure, Tubing PSIG 1292	+ 12 = PSIA 1304	
Flowing Pressure: P PSIG 72 M. R. 220 W. H.	+ 12 = PSIA 84 M. R. 232 W. H.	Working Pressure: P _w PSIG 705	+ 12 = PSIA 717		
Temperature: T = 74 °F	F _t = .9868	n = .75	F _{pv} (From Tables) 1.010	Gravity .700	F _g = 1.1952

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

$$Q = \text{Calculated from orifice meter reading} = \underline{1885} \text{ MCF/D}$$

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

$$Aof = \left(\frac{3538161}{3024072} \right)^n = (1885)(1.1699)^{.75} = (1885)(1.1249)$$

NOTE: The well produced 116.5 bbls. of 43.6 API oil during the three hour test.

$$Aof = \underline{2120} \text{ MCF/D}$$

TESTED BY J. B. GoodwinCalculated
WITNESSED BY A. J. LoleitCHECKED BY T. B. Grant

H. L. Kendrick
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