

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 1, 1967

Operator El Paso Natural Gas Company		Lease Permian Unit No. 172	
Location T-13, 16501A, T-13-N, R-10-W		County Otero	State New Mexico
Formation Pekote		Pool Main	
Casing: Diameter 4.500	Set At: Feet 6675	Tubing: Diameter 2.375	Set At: Feet 6675
Pay Zone: From 6632	To 6620	Total Depth: 6675	Shut-in 6-26-67
Stimulation Method Sand Water Foam		Flow Through Casing	Flow Through Tubing

Choke Size, Inches 2.5" Plate 2" run		Choke Constant: C 33.223		Tested through 5/8" choke	
Shut-In Pressure, Casing, PSIG 15	+ 12 = PSIA 27	Days Shut-In 55	Shut-In Pressure, Tubing, PSIG 14.4	+ 12 = PSIA 26.4	
Flowing Pressure: P Wt. 217	PSIG + 12 = PSIA Wt. 229	Wt. 513	Working Pressure: Pw, PSIG 13.0	+ 12 = PSIA 25.0	
Temperature: T = 67 °F	F _g = 1.033	n = .75	F _{pv} (From Tables) 1.025	Gravity F _g = 1.2602	

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

$$Q = \text{Calculated from orifice meter reading} = 5065 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3445736}{2140572} \right)^n = (5065)(1.6092)^{.75} = (5065)(1.4287)$$

NOTE: The well produced 46.13 bbls. of 40.6 API gravity oil during test.

$$Aof = 6379 \text{ MCF/D}$$

TESTED BY R. F. KendrickWITNESSED BY A. J. MeitCALCULATED BY H. L. Kennedy

H. L. Kendrick
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