

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 10-1-66

Operator El Paso Natural Gas Company		Lease Barnes No. 1	
Location Blanco, 10 mi. S. 11, R-07-11, T-07-11		County San Juan	State New Mexico
Formation Mudstone		Pool 1000'	
Casing: Diameter .570	Set At: Feet 6702	Tubing: Diameter .375	Set At: Feet 6617
Pay Zone: From 6617	To 6630	Total Depth: 6630	Shut In 10-1-66
Stimulation Method acid water foam		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 10-365			
Shut-In Pressure, Casing, PSIG 2084	+ 12 = PSIA 2206	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 1977	+ 12 = PSIA 2089	
Flowing Pressure: P PSIG 161	+ 12 = PSIA 173	Working Pressure: P _w PSIG 570	+ 12 = PSIA 582		
Temperature: T = 117 °F	n = .75	F _{pv} (From Tables) 1.07	Gravity .770	F _g = .9463	

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

$$Q = (10.365)(161)(.9840)(.9463)(1.07) = 1880 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1880}{1.07} \right)^{.75} = (1757)(1.0669)^{.75} = (1880)(1.07)$$

$$Aof = 1974 \text{ MCF/D}$$

NOTE: After test, after well was shut in, it unloaded a big slug of water and disch.--blew a heavy spray throughout the remainder of the test.

TESTED BY W. L. KendrickWITNESSED BY W. L. Kendrick

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