

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE December 31, 1964

Operator El Paso Natural Gas Company		Lease San Jacinto No. 6 (Re-test)	
Location 840'N, 890'W, Sec. 20, T-29-N, R-10-W		County San Juan	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 6555	Tubing: Diameter 2.375	Set At: Feet 6331
Pay Zone: From 6326	To 6435	Total Depth: 6555	Shut In 12-8-64
Stimulation Method Sand Water Frac.		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .75		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 1849	+ 12 = PSIA 1831	Days Shut-In 23	Shut-In Pressure, Tubing PSIG 1823	+ 12 = PSIA 1835	
Working Pressure: P PSIG 266	+ 12 = PSIA 266		Working Pressure: Pw PSIG 660	+ 12 = PSIA 672	
Temperature: T 73 °F F _t = .9831	n = .75		Fpv (From Tables) 1.033	Gravity .750 F _g = .8944	

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

$$Q = (12.365)(266)(.9831)(.8944)(1.033) = 2987 \text{ MCF/D}$$

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

$$Aof = \left(\frac{3,367,225}{2,915,641} \right)^n = (2987)(1.1548)^{.75} = (2987)(1.1139)$$

$$Aof = 3327 \text{ MCF/D}$$

NOTE: The well unloaded a large slug of dist. & water 4.5 min. after it was turned on, then blew a light spray of water and dist. throughout the remainder of the test.

NOTE: This re-test conducted after well blown to clean up.

TESTED BY Hermon E. McAnally

Checked BY H. L. Kendrick

Lewis D. Galloway
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