

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE Dec 12, 1966

Operator El Paso Natural Gas Company		Lease H-1 No. 9 (CWB)	
Location Box 7, 1400 W. Ave 4 - 3311-1311		County Carrizosa	State New Mexico
Formation Carrizosa		Pool 17-11-11	
Casing: Diameter 14.000	Set At: Feet 5478	Tubing: Diameter 2.375	Set At: Feet 5104
Pay Zone: From 875	To 5438	Total Depth: 5478	Shut In 11-27-66
Stimulation Method Sand Water Foam		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 727	+ 12 = PSIA 739	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 518	+ 12 = PSIA 530	
Flowing Pressure: P 218	PSIG + 12 = PSIA 230		Working Pressure: Pw 637	PSIG + 12 = PSIA 649	
Temperature: T = 77 °F	Ft = .9840	n = .75	Fpv (From Tables) 1.022	Gravity .600	Fg = .9325

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = (12.365)(230)(.9840)(.9325)(1.022) = 2667 \text{ MCF/D}$$

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

$$Aof = \left(\frac{546121}{130096} \right)^n = (2667)(1.1976)^{.75} = (2667)(2.9327)$$

NOTE: The well blew dead in app. 5 min. then unloaded a heavy slug of H₂O and hydrocarbons. It then produced a fine spray of light hydrocarbons throughout the test.

$$Aof = 7802 \text{ MCF/D}$$

TESTED BY R. E. HendrickWITNESSED BY R. E. Grant

R. E. Hendrick
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