

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE December 29, 1966

Operator CHARD OIL & GAS COMPANY		Lease Quantius No. 1	
Location 790'N, 1850'W, Sec. 26, T-26-N, R-7-W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 4.500	Set At: Feet 3213	Tubing: Diameter 1.000	Set At: Feet 3003
Pay Zone: From 3002	To 3006	Total Depth: 4017	Shut In 12-19-66
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 685	+ 12 = PSIA 697	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 684	+ 12 = PSIA 696	
Flowing Pressure: P PSIG 30	+ 12 = PSIA 42		Working Pressure: P _w PSIG 62	+ 12 = PSIA 74	
Temperature: T = 60 °F	F _t = 1.000	n = .85	F _p (From Tables) 1.004	Gravity .660	F _g = .9535

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

$$Q = (12.365)(42)(1.000)(.9535)(1.004) = 497 \text{ MCF/D}$$

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

$$Aof = \left(\frac{485809}{460333} \right)^n = (1.0114)^{.85} (497) = (1.0097)(497)$$

NOTE: The well blew clear gas throughout the test

$$Aof = 502 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin (EPNG)WITNESSED BY Oliver Towell (Conard)CHECKED BY H. E. McAnally (EPNG)

H. L. Kendrick
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