

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 8/24/72

Operator El Paso Natural Gas Company		Lease Mansfield #10	
Location 1850/S, 720/W, Sec. 19-T30N-R9E		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3053	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2950	To 3006	Total Depth: 3053	Shut In 8/6/72
Stimulation Method STP		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 942	+ 12 = PSIA 954	Days Shut-In 16	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 94	+ 12 = PSIA 106	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 133		
Temperature: T = 59 °F	n =	F _{pv} (From Tables) 1.007	Gravity .635	F _g = .9721	
Ft = 1.001	.85				

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

$$Q = (12.365)(106)(1.001)(.9721)(1.007) = 1284 \text{ MCF/D}$$

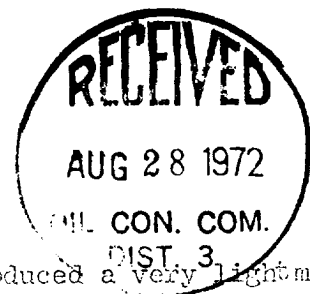
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

$$Aof = \left(\frac{910 \cdot 116}{892 \cdot 427} \right)^n = (1284)(1.0198)^{.85} = (1284)(1.0168)$$

$$Aof = 1306 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____



NOTE: Well produced a very light mist of water through-out test.

J. A. Jones
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Well Test Engineer