

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE August 9, 1967

Operator El Paso Natural Gas Company		Lease Mansfield No. 1 (OWO)	
Location 720'S, 1120'W, Sec. 29, T-30-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 4980	Tubing: Diameter 2.375	Set At: Feet 4824
Pay Zone: From 4126	To 4892	Total Depth: 4980	Shut In 7-27-67
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 810	+ 12 = PSIA 822	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 810	+ 12 = PSIA 822	
Flowing Pressure: P PSIG 232	+ 12 = PSIA 244		Working Pressure: P _w PSIG 730	+ 12 = PSIA 742	
Temperature: T = 73 °F	F _t = .9877	n = .75	F _{pv} (From Tables) 1.023	Gravity .666	F _g = .9498

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

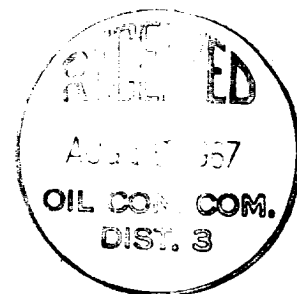
$$Q = (12.365)(244)(.9877)(.9498)(1.023) = \underline{2895} \text{ MCF/D}$$

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

$$Aof = \left(\frac{675,684}{125,120} \right)^n = 2895(5.4002)^{.75} = 2895(3.5410)$$

NOTE: Blew light fog of water.

$$Aof = \underline{10251} \text{ MCF/D}$$

TESTED BY Jesse B. GoodwinCHECKED
WITNESSED BY T. B. GrantH. L. Kendrick

H. L. Kendrick

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