

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 25, 1966

Operator El Paso Natural Gas Company		Lease Storey "C" No. 10 (PC) (OMWO)	
Location 1090'S, 1650'W, Sec. 35, T-28-N, R-9-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool South Blanco	
Casing: Diameter 7.625	Set At: Feet 2494	Tubing: Diameter 1.660	Set At: Feet 2336
Pay Zone: From 2290	To 2330	Total Depth: 4747	Shut In 7-26-66
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Baker Model "N" Facker set at 2421	
Shut-In Pressure, Casing, PSIG 432 (PC)	+ 12 = PSIA 444	Days Shut-In 30	Shut-In Pressure, Tubing PSIG 193 (PC)	+ 12 = PSIA 205	
Flowing Pressure: P PSIG 138	+ 12 = PSIA 150		Working Pressure: P _w PSIG Calc. 150	+ 12 = PSIA 150	
Temperature: T = .66 °F	n = .85		F _{pv} (From Tables) 1.013	Gravity .650	F _g = .9608

ISIPT (MV) = 579 psig

FSIPT (MV) = 582 psig

CHOKE VOLUME = Q = C × P_i × F_t × F_g × F_{pv}

$$Q = (12.365)(150)(.9943)(.9608)(1.013) = \underline{1795} \text{ MCF/D}$$

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

$$Aof = \left(\frac{197,136}{174,636} \right)^n = (1795)(1.1288)^{.85} = (1795)(1.1083)$$

NOTE: Well blew nearly dry gas throughout the test.

$$Aof = \underline{1989} \text{ MCF/D}$$

TESTED BY Jess B. GoodwinCALCULATED
WITNESSED BY Hermon E. McAnallyCHECKED BY Tom B. Grant

H. L. Kendrick
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