

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE October 14, 1965

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 99	
Location 1650'N, 1090'E, Sec. 24, T-28-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7900	Tubing: Diameter 2.375	Set At: Feet 7762
Pay Zone: From 7576	To 7749	Total Depth: 7900	Shut In 9-26-65
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, 2691	PSIG	+ 12 = PSIA 2703	Days Shut-In 18	Shut-In Pressure, Tubing 2678	PSIG + 12 = PSIA 2690
Flowing Pressure: P 322	PSIG	+ 12 = PSIA 334		Working Pressure: P _w 1141	PSIG + 12 = PSIA 1153
Temperature: T = 71 °F	F _t = .9896	n = .75		F _{pv} (From Tables) 1.031	Gravity .650 F _g = .9608

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

$$Q = (12.365) (334) (.9896) (.9608) (1.031) = \underline{4,048} \text{ MCF/D}$$

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

$$Aof = \left(\frac{7,306,209}{5,976,800} \right)^n = (4,048) (1.2224)^{.75} = (4,048) (1.1647)$$

$$Aof = \underline{4,707} \text{ MCF/D}$$

NOTE: (Made one small slug of H₂O app.
3 minutes after opening well)
(Made light spray of H₂O and
Hydrocarbons throughout test)

TESTED BY R. F. HeadrickCHECKED BY Hermion E. McAnally
~~W. J. S. S. S. S. S.~~

Lewis D. Galloway
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