

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE May 27, 1965

Operator El Paso Natural Gas Company		Lease San Juan 28-7 Unit No. 136 (OWO)	
Location 1650'S, 1650'E, Section 14, T-28-N, R-7-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Easin	
Casing: Diameter 5.500	Set At: Feet 7889	Tubing: Diameter 2.375	Set At: Feet 7629
Pay Zone: From 7494	To 7682	Total Depth: 7694 (Plug Back)	Shut In 5-17-65
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, PSIG 2642	+ 12 = PSIA 2654	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 2119
Flowing Pressure: P PSIG 135	+ 12 = PSIA 147	Working Pressure: Pw PSIG 624	+ 12 = PSIA 636
Temperature: T = 75 °F F _t = .9859	n = .75	Fpv (From Tables) 1.017	Gravity .750 F _g = .8944

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

$$Q = (12.365) (147) (.9859) (.8944) (1.017) = 1630 \text{ MCF/D}$$

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

$$Aof = \left(\frac{7,043,716}{6,639,220} \right)^n = (1630) (1.0609)^{.75} = (1630) (1.0453)$$

$$Aof = 1704 \text{ MCF/D}$$



NOTE: Well unloaded large volume of water vapor after being open for 5 minutes. Medium to heavy water vapor throughout remainder of test.

TESTED BY J. B. Goodwin
CHECKED BY
WITNESSED BY T. B. Grant

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