

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 4, 1964

Operator La Plata Consulting System		Lease Guadalupe Unit No. 79 (NW)	
Location T-27-N, R-9-W, Sec. 26, T-27-N, R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool El Paso	
Casing Diameter 5.500	Set At: Feet 6812	Tubing Diameter 2.900	Set At: Feet 4263
Pay Zone: From 4374	To 4433	Total Depth 6812	Shut In 11-24-64
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.75	Choke Constant: C 12.365	Packer set at 6346'	
Shut-In Pressure, Casing, PSIG 1073 (SW)	+ 12 = PSIA 1085	Days Shut-In 1.0	Shut-In Pressure, Tubing, PSIG 1084 (NW)
Flowing Pressure: P, PSIG 545	+ 12 = PSIA 545	Working Pressure: Pw, PSIG 631	+ 12 = PSIA 631
Temperature: T=80 °F F= .9813	n = .75	Fpv (From Tables) 1.059	Gravity .700 Fg = .9258

ISIT (DK) = 1908 5413

FSIPT (DK) = 1998 5413

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(545)(.9813)(.9258)(1.059) = 6483 \text{ MCF/D}$$

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

$$Aof = \left(\frac{1,177,235}{779,364} \right)^{.75} = (640)(1.9210)^{.75} = (640)(1.3628)$$

NOTE: The well produced a very heavy spray of dist. and a little water throughout the test.

$$Aof = 8835 \text{ MCF/D}$$

TESTED BY Mr. E. McAnally (EPNG)

WITNESSED BY Mr. Howell (La Plata)

CHECKED BY Mr. Johnson

Lewis D. Galloway
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