

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE November 13, 1962

Operator El Paso Natural Gas Company		Lease San Juan 27-5 No. 91	
Location 890'N, 990'E, Sec. 13-27-5		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 7.625	Set At: Feet 3985	Tubing: Diameter 1.660	Set At: Feet 6007
Pay Zone: From 5484	To 6018	Total Depth: 6076 C/O 6038	Shut In 11-4-62
Stimulation Method Sand Water Frac.		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .75		Choke Constant: C 12.365		5.50" Liner 3880 to 6075	
Shut-In Pressure, Casing, PSIG 1130	12 = PSIA 1142	Days Shut-In 9	Shut-In Pressure, Tubing, PSIG 1146	12 = PSIA 1158	
Flowing Pressure: P, PSIG 185	12 = PSIA 197		Working Pressure: Pw, PSIG 217	12 = PSIA 229	
Temperature: °F 64	n .9962		Fpv (From Tables) 1.019	Gravity .650	Fg = .9608

$$\text{CHOKE VOLUME} = Q \cdot C \cdot P_i \cdot F_i \cdot F_g \cdot F_{pv}$$

$$Q = (12.365)(197)(.9962)(.9608)(1.019)$$

2376

MCF/D

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

$$Aof = \left(\frac{1,340,964}{1,288,523} \right)^n = (1.0406)^{.75} (2376) = (2376)(1.0303)$$

NOTE: Blew clear gas for entire test period.

$$Aof = 2448 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

Checked by Tom B. Grant

Lewis D. Galloway
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