

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

OCC (2)

DATE August 16, 1972

Operator El Paso Natural Gas Company		Lease Lackey No. 5	
Location 1050/S, 1150/W, Sec. 26 T 28N, R 9W		County San Juan	State New Mexico
Formation Pictured cliffs		Pool South Blanco	
Casing: Diameter 2.375	Set At: Feet 2295	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2200	To 2234	Total Depth: 2295	Shut In 8-5-72
Stimulation Method SWF		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 709	+ 12 = PSIA 721	Days Shut-In 11	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 150	+ 12 = PSIA 162		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 195	
Temperature: T = 70 °F	Ft = .9905	n = .85	Fpv (From Tables) 1.014	Gravity .645	Fg = .9645

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

$$Q = 12.365 \times 162 \times .9905 \times .9645 \times 1.014 = 1940 \text{ MCF/D}$$

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

NOTE: Produced light fog of water throughout test.

$$Aof = \left(\frac{519841}{481816} \right)^n = (1.0789)^{.85} (1940) = (1.0667)(1940)$$

$$Aof = 2070 \text{ MCF/D}$$

TESTED BY J. A. Jones

WITNESSED BY



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