

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/28/72

Operator EL PASO NATURAL GAS COMPANY		Lease Mudge #33	
Location 900/N, 1158/E, Sec. 8, T31N, R11W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2890	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2756	To 2786	Total Depth: 2890	Shut In 12/20/72
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12,365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 893	+ 12 = PSIA 905	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 93	+ 12 = PSIA 105		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 130	
Temperature: T = 58 °F F _t = 1.002	n = .85		F _{pv} (From Tables) 1.007	Gravity .635 F _g = .9721	

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

$$Q = (12.365)(105)(1.002)(.9721)(1.007) = \underline{1273} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{819025}{802125} \right)^n = (1273)(1.0211)^{.85} = (1273)(1.0179)$$

$$Aof = \underline{1296} \text{ MCF/D}$$

NOTE: Well produced dry gas throughout test.

TESTED BY J. A. Jones

WITNESSED BY _____

J. A. Jones
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Well Test Engineer

