

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 12-9-69

Operator El Paso Natural Gas Co.		Lease Donnan No. 1 (OWWO)	
Location 1650 N, 990 W, S 20-T27N-R9W		County San Juan	State New Mexico
Formation Fictured Cliffs		Pool Fulcher-Kutz	
Casing: Diameter 2.375	Set At: Feet 2386	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2237	To 2268	Total Depth: 2386	Shut In 12-2-69
Stimulation Method SLF		Flow Through Casing XX	Flow through tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 226	+ 12 = PSIA 338	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 16	+ 12 = PSIA 28	Working Pressure: P _w PSIG Calc.	+ 12 = PSIA		
Temperature: °F 63	n = .85	Fpv (From Tables) 1.004	Gravity .660	Fg = .9535	

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

$$Q = 12.365 \times 28 \times 1.0068 \times .9535 \times 1.004 = 334 \text{ MCF/D}$$

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

Note: Light fog of H₂O throughout test.

$$Aof = \left(\frac{114244}{113088} \right)^n = (1.0102)^{.85} 334 = 1.0087 \times 334$$

$$Aof = 337 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY _____



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