

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY
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DATE November 13, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease Allen Com #1 (OWWO)	
Location 990'N, 990'E, Sec. 16, T-31-N, R-9-W		County San Juan	State NM
Formation Mesaverde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6125	Tubing: Diameter 2.375	Set At: Feet 6052
Pay Zone: From 5308	To 6076	Total Depth: 6125	Shut In 11/6/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 745	+ 12 = PSIA 757	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 487	+ 12 = PSIA 499	
Flowing Pressure: P PSIG 215	+ 12 = PSIA 227		Working Pressure: P _w PSIG 640	+ 12 = PSIA 652	
Temperature: T = 69 °F	F _t = .9915	n = .75	F _p (From Tables) 1.018	Gravity .620	F _g = .9837

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

$$Q = (12.365)(227)(.9915)(.9837)(1.018) = 2787 \text{ MCF/D}$$

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

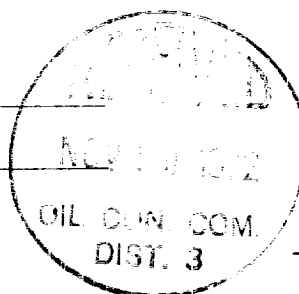
$$Aof = Q \left(\frac{573049}{147945} \right)^n = 2787 (3.8734)^{.75} = 2787 (2.7610)$$

$$Aof = 7695 \text{ MCF/D}$$

NOTE: Well blew dead in 7 min, dead for 5 min then unloaded oil. Continued medium mist of oil thru test.

TESTED BY C. Rhames

WITNESSED BY


William D. Welch
William D. Welch
Well Test Engineer

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