

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 10, 1972

Operator El Paso Natural Gas Company		Lease Nye No. 1 (OWO)	
Location 990/N, 990/E Sec. 23 - T 31N, R 11W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5062	Tubing: Diameter 2.375	Set At: Feet 4991
Pay Zone: From 4132	To 5036	Total Depth: 5062	Shut In 5-23-72
Stimulation Method S.W.F.		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 799	+ 12 = PSIA 811	Days Shut-In 18	Shut-In Pressure, Tubing PSIG 510	+ 12 = PSIA 522	
Flowing Pressure: P PSIG 234	+ 12 = PSIA 246		Working Pressure: P _w PSIG 740	+ 12 = PSIA 752	
Temperature: T = 83 °F F _t = 0.9786	n = 0.75		F _{pv} (From Tables) 1.022	Gravity .665 F _g = .9498	

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

$$Q = 12.365 \times 246 \times 0.9786 \times 0.9498 \times 1.022 = \underline{2889} \text{ MCF/D}$$

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

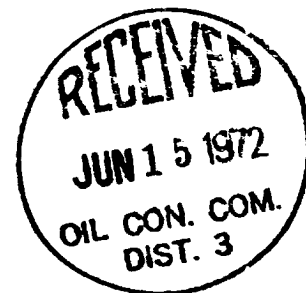
NOTE: The well produced a medium fog of water throughout the test.

$$Aof = \left(\frac{657721}{92217} \right)^n = (7.1323)^{.75} (2889) = (4.3644)(2889)$$

$$Aof = \underline{12,611} \text{ MCF/D}$$

TESTED BY T. D. N.

WITNESSED BY _____



John A. Jones
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