

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12-8-69

Operator El Paso Natural Gas Co.		Lease Harrington No. 2 (OWWO)	
Location 990 N, 990 W, S 31 - T27N - R7W		County Rio Arriba	State New Mexico
Formation Pictured Cliffs		Pool	
Casing: Diameter 2.875	Set At: Feet 2275	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2144	To 2164	Total Depth: 2275	Shut In 11-30-69
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless completion	
Shut-In Pressure, Casing, PSIG 421	+ 12 = PSIA 433	Days Shut-In 8	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 47	+ 12 = PSIA 59	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA		
Temperature: T = 56 °F	n =	Fpv (From Tables) 1.004	Gravity .660	Fg = .9535	
Ft = 1.0039					

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

$$Q = (12.365)(59)(1.0039)(.9535)(1.004) = \underline{701} \text{ MCF/D}$$

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

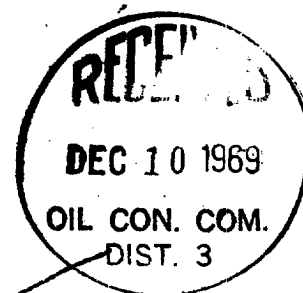
Note: Well blew dry gas throughou test.

$$Aof = \left(\frac{187489}{182589} \right)^n = (1.2068)^{.85} (700) = (1.0227)(700)$$

$$Aof = \underline{716} \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY



[Handwritten Signature]