

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 9-8-70

Operator El Paso Natural Gas Company		Lease Sunray B No. 3	
Location 990 S, 1090 E, S 1, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3367	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3250	To 3270	Total Depth: 3367	Shut In 8-28-70
Stimulation Method S W F		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 887	+ 12 = PSIA 899	Days Shut-In 11	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 198	+ 12 = PSIA 210	Working Pressure: Pw Calc.	PSIG	+ 12 = PSIA 268	
Temperature: T = 65 °F	n = .85	Fpv (From Tables) 1.018	Gravity .649	Fg = .9615	

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

$$Q = (12.365)(210)(.9952)(.9615)(1.018) = 2529 \text{ MCF/D}$$

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

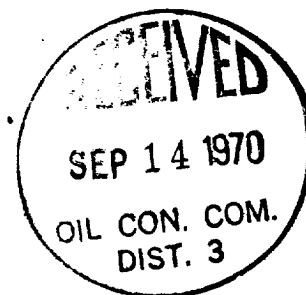
Note: Well blew dry gas throughout the test.

$$Aof = \left(\frac{808201}{736377} \right)^n = (1.0975)^{.85} (2529) = (1.0823)(2529)$$

$$Aof = 2737 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY



H. L. Kendrick
H. L. Kendrick