

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 6-28-71

Operator El Paso Natural Gas Company		Lease Sunray E No. 3	
Location 1500' S, 1090' E, S 9, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3249	Tubing: Diameter no tubing	Set At: Feet
Per Zone: From 3108	To 3148	Total Depth: 3249	Shut In 6-21-71
Stimulation Method S W F		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		tubingless completion	
Shut-In Pressure, Casing, PSIG 861	+ 12 = PSIA 873	Days Shut-In 7	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 335	+ 12 = PSIA 347	Working Pressure: Pw PSIG calculated	+ 12 = PSIA		443
Temperature: T = 64 °F	Ft = .9962	n =	Fpv (From Tables) 1.032	Gravity .635	Fg = .9721

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

$$Q = 12.365 \times 347 \times .9962 \times .9721 \times 1.032 = 4288 \text{ MCF/D}$$

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

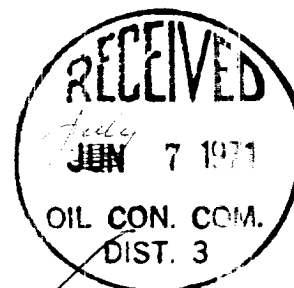
Note: Well blew dry gas throughout test.

$$Aof = \left(\frac{762129}{565880} \right)^n = 4288(1.3468)^{.85} = 4288(1.2879)$$

$$Aof = 5523 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY



H. L. Kendrick
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