

OPEN FLOW TEST DATA

DATE 5-5-71

Operator El Paso Natural Gas Company		Lease Sunray B No. 5	
Location 850' S, 992' W, S 1, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3222	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3156	To 3172	Total Depth: 3223	Shut In 4-24-71
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 925	+ 12 = PSIA 937	Days Shut-In 11	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 338	+ 12 = PSIA 350	Working Pressure: Pw calculated	PSIG	+ 12 = PSIA 448	
Temperature: T = 65 °F	Ft = .9971	n = .85	Fpv (From Tables) 1.032	Gravity .635	Fg = .9721

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

$$Q = 12.365 \times 350 \times .9971 \times 1.032 = 4329 \text{ MCF/D}$$

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

Note: Blew dry gas throughout entire test.

$$Aof = \left(\frac{877969}{677265} \right)^n = 4329(1.2963)^{.85} = 4329(1.2467)$$

$$Aof = 5397 \text{ MCF/D}$$

TESTED BY J. B. Goodwin

WITNESSED BY

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