

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 5-13-71

Operator El Paso Natural Gas Company		Lease Sunray B No. 4	
Location 1500'N, 810'W, S 1, T30N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3470	Tubing: Diameter no tubing	Set At: Feet
Pay Zone: From 3338	To 3352	Total Depth: 3490	Shut In 5-6-71
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 7	Shut-In Pressure, Tubing PSIG no tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 405	+ 12 = PSIA 417	Working Pressure: Pw calculated	PSIG	+ 12 = PSIA 540	
Temperature: T = 66°F	n = .85	Fpv (From Tables) 1.037	Gravity .635	Fg = .9721	

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

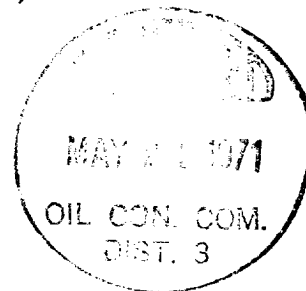
$$Q = 12.365 \times 417 \times .9943 \times .9721 \times 1.037 = 5168 \text{ MCF/D}$$

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

Note: Blew light fog of water for entire test.

$$Aof = \left( \frac{877969}{586369} \right)^n = 5168(1.4972)^{.85} = 5168(1.4092)$$

$$Aof = 7282 \text{ MCF/D}$$



TESTED BY Jesse B. Goodwin

WITNESSED BY

  
H. L. Kendrick