

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 8-10-70

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit No. 1 OWWO	
Location 1900 N, 1650 E, S 17, T28N, R6W		County Rio Arriba	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 6048	Tubing: Diameter 2.375	Set At: Feet 5966
Pay Zone: From 5384	To 5970	Total Depth: 6048	Shut In 7-26-70
Stimulation Method GWP		Flow Through Casing XX	Flow Through Tubing dead

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 740	+ 12 = PSIA 752	Days Shut-In 15	Shut-In Pressure, Tubing PSIG dead	+ 12 = PSIA	
Flowing Pressure: P PSIG 336	+ 12 = PSIA 368		Working Pressure: Pw PSIG calc.	+ 12 = PSIA 451	
Temperature: T = 64 °F	n = .75		Fpv (From Tables) 1.043	Gravity .699	Fg = .9265

CHOKE VOLUME = Q = C x P_i x F_i x F_g x F_{pv}

$$Q = (12.365)(368)(.9962)(.9265)(1.043) = 4380 \text{ MCF/D}$$

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

Note: Flowed well thru csg., tbg. dead throughout test. Well blew a light spray of water and distillates throughout the test.

$$Aof = \left(\frac{565504}{362103} \right)^n = (1.5617)^{.75}(4380) = (1.3970)(4380)$$

$$Aof = 6119 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY



R. E. Stauffer
R. E. Stauffer