

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE 9-29-70

Operator El Paso Natural Gas Company		Lease Three States Com No. 1 (OMVO)	
Location 1650 S, 990 W, S 16, T29N, R8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5710	Tubing: Diameter 2.375	Set At: Feet 5634
Pay Zone: From 4832	To 5667	Total Depth: 5710	Shut In 9-14-70
Stimulation Method S W F		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 560	+ 12 = PSIA 572	Days Shut-In 15	Shut-In Pressure, Tubing PSIG 683	+ 12 = PSIA 700	
Flowing Pressure: P PSIG 275	+ 12 = PSIA 287		Working Pressure: P <sub>w</sub> PSIG 500	+ 12 = PSIA 512	
Temperature: T = 72°F	n =		F <sub>pv</sub> (From Tables) 1.029	Gravity .683	F <sub>g</sub> = .9373
F <sub>t</sub> = .9887	.75				

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

$$Q = 12.365 \times 287 \times .9887 \times .9373 \times 1.029 = 3384 \text{ MCF/D}$$

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

Note: Well unloaded a heavy slug of dist. & water for one minute then produced a heavy fog of dist. & water throughout remainder of test.

$$Aof = \left( \frac{490000}{227856} \right)^n = (3384) \times (2.1504)^{.75} = (3384)(1.7757)$$

$$Aof = 6009 \text{ MCF/D}$$

TESTED BY T. D. Norton

WITNESSED BY



*H. L. Kendrick*  
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