

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12-5-69

Operator El Paso Natural Gas Co.		Lease Klein No. 11 (CH)	
Location 1840S, 900E, S30-T26N-R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Otero	
Casing: Diameter 2.375	Set At: Feet 3664	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3522	To 3621	Total Depth: 3664	Shut In 11-20-60
Stimulation Method SIF		Flow Through Casing N/A	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Slim hole - 2-2 7/8" parallel string	
Shut-In Pressure, Casing, PSIG 645	+ 12 = PSIA 658	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 116	+ 12 = PSIA 128	Working Pressure: Pw PSIG Calc.	+ 12 = PSIA 166		
Temperature: T = 59 °F	n =	Fpv (From Tables) 1.012	Gravity .660	Fg =	
Ft = 1.0010	.75				

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

$$Q = (12.365)(128)(1.0010)(.9535)(1.012) = 1529 \text{ MCF/D}$$

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

Note: Well blew light spray of water and distillate throughout test.

$$Aof = \left(\frac{736164}{705608} \right)^n = (1.0383)^{.75} (1529) = (1.0289)(1529)$$

$$Aof = 1573 \text{ MCF/D}$$

TESTED BY D. R. Roberts

WITNESSED BY



J. L. Hendrick