

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 12-1-69

Operator El Paso Natural Gas Co.		Lease Cayser Largo Unit No. 155	
Location 990 N, 1800 E, W11-T45N-R6W		County Rio Arriba	State New Mexico
Formation Chacra		Pool Chaco	
Casing: Diameter 2.375	Set At: Feet 3600	Tubing: Diameter 2.000	Set At: Feet
Pay Zone: From 2700	To 5000	Total Depth 2700	Shut In 21-26-69
Stimulation Method Gels		Flow Through Casing	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Equivalent completion	
Shut-In Pressure, Casing, PSIG 100	+ 12 = PSIA 112	Days Shut-In 13	Shut-In Pressure, Tubing PSIG 100	+ 12 = PSIA 112	
Flowing Pressure: P PSIG 90	+ 12 = PSIA 102	Working Pressure: Pw PSIG 80	+ 12 = PSIA 92		
Temperature: T = 51 °F	n = .75	Fpv (From Tables) 1.009	Gravity .600	Fg = .955	

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

$$Q = (12.365)(92)(1.009)(.9555)(1.009) = 1099 \text{ MCF/D}$$

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

Note: Slugs of water, dist. and paraffin for 15 min. Med. spray of water and dist. throughout test.

$$Aof = \left(\frac{700560}{635923} \right)^n = (1.0213)^{.75}(1099) = (1.0160)(1099)$$

$$Aof = 1117 \text{ MCF/D}$$

TESTED BY Dan Roberts

WITNESSED BY _____



J. P. Henderson