

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-01-69

Operator El Paso Natural Gas		Lease San Juan 27-5 Unit No. 116	
Location 1170'N; 1170'E; S-24; T-27N; R-5W		County Rio Arriba	State New Mexico
Formation Basin		Pool Dakota	
Casing: Diameter 4.500	Set At: Feet 7945	Tubing: Diameter 1.900	Set At: Feet 7777
Pay Zone: From 7618	To 7822	Total Depth: 7945	Shut In 6-03-69
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2503	+ 12 = PSIA 2515	Days Shut-In 28	Shut-In Pressure, Tubing PSIG 2322	+ 12 = PSIA 2334	
Flowing Pressure: P PSIG 295	+ 12 = PSIA 307		Working Pressure: Pw PSIG 522	+ 12 = PSIA 535	
Temperature: T = 82 °F	n = .75		Fpv (From Tables) 1.026	Gravity .650	Fg = .9608

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

Q = (12.365)(307)(.9795)(.9608)(1.026) = 3665 MCF/D

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

Aof = $\left(\frac{6325225}{6039000} \right)^n = (1.0473)^{.75} 3665 = 1.0352 (3665)$

Note: Heavy fog of water and light hydrocarbons

Aof = 3794 MCF/D



TESTED BY JBG
Calculated
WITNESSED BY RF & RES

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