

EL PASO NATURAL GAS COMPANY OPEN FLOW TEST DATA

DATE 7-14-71

Operator El Paso Natural Gas Company		Lease Vaughn No. 15	
Location 1030' N, 990' E, S 28, T26N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 7541	Tubing: Diameter 2.375	Set At: Feet 7419
Pay Zone: From 7214	To 7420	Total Depth: 7543	Shut In 7-6-71
Stimulation Method F		Flow Through Casing	Flow Through Tubing XXX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2462	+ 12 = PSIA 2474	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1074	+ 12 = PSIA 1086	
Flowing Pressure: P PSIG 217	+ 12 = PSIA 229		Working Pressure: Pw PSIG 815	+ 12 = PSIA 827	
Temperature: T = 78 °F	Ft = .9831	n = .75	Fpv (From Tables) 1.023	Gravity .700	Fg = .9258

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

$$Q = 12.365 \times 229 \times .9831 \times .9258 \times 1.023 = 2636 \text{ MCF/D}$$

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

Note: Well blew heavy fog of water and distillate throughout test.

$$Aof = \left(\frac{6120676}{5436747} \right)^n = 2636(1.1257)^{.75} = 2636(1.0929)$$

$$Aof = 2881 \text{ MCF/D}$$



TESTED BY B. J. Broughton

WITNESSED BY

H. E. McAnally
H. E. McAnally