

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DATE August 2, 1971

Operator El Paso Natural Gas Company		Lease Day A No. 13	
Location 990'S, 16 <del>19</del> W, Sec. 8, T-29-N, R-8-W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3108	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2980	To 3010	Total Depth: 3122	Shut In 7-24-71
Stimulation Method Sand Water Frac		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 892	+ 12 = PSIA 904	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 108	+ 12 = PSIA 120		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 151	
Temperature: T = 66 °F	F <sub>t</sub> = .9943	n = 0.85	F <sub>pv</sub> (From Tables) 1.010	Gravity 0.635	F <sub>g</sub> = .9721

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

$$Q = (12.365)(120)(.9943)(.9721)(1.010) = 1449 \text{ MCF/D}$$

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

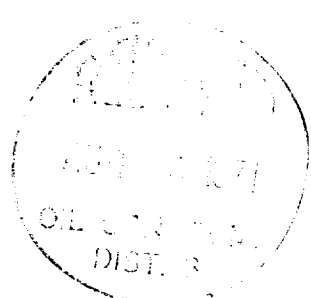
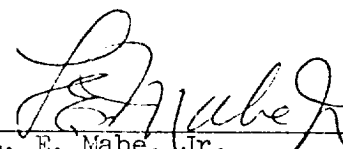
Note: Well blew light spray of water throughout test.

$$Aof = \left( \frac{817216}{794415} \right)^n = (1449)(1.0287)^{.85} = (1449)(1.0242)$$

$$Aof = 1484 \text{ MCF/D}$$

TESTED BY B. J. Broughton

WITNESSED BY


  

  
 L. E. Mabe, Jr.