

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 22, 1972

Operator El Paso Natural Gas Company		Lease Ludwick No. 26	
Location 1650/S, 1090/E, Sec. 31- 30N - 10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2500	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2378	To 2462	Total Depth: 2500	Shut In 6-15-72
Stimulation Method S.W.F.		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 550	+ 12 = PSIA 562	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 53	+ 12 = PSIA 65	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 79		
Temperature: T = 69 °F	Ft = .9915	n = .85	F _{pv} (From Tables) 1.006	Gravity .635	F _g = .9721

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

$$Q = (12.365)(65)(.9915)(.9721)(1.006) = 779 \text{ MCF/D}$$

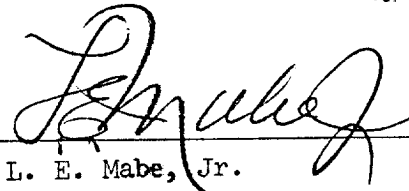
$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n \quad \text{NOTE: The well blew dry gas.}$$

$$Aof = \left(\frac{315844}{309603} \right)^n = (779)(1.0202)^{.85} = (779)(1.0171)$$

$$Aof = 793 \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY


L. E. Mabe, Jr.
