

Operator El Paso Natural Gas Company		Lease Ludwick No. 25	
Location 890/N, 1090/W, Sec. 5 - 29N - 10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2399	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2266	To 2290	Total Depth: 2399	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, 540	PSIG	+ 12 = PSIA 552	Days Shut-In 7	Shut-In Pressure, Tubing No Tubing	PSIG
Flowing Pressure: P 18	PSIG	+ 12 = PSIA 30		Working Pressure: P _w Calculated	PSIG
Temperature: T = 62 °F	F _t = .9981	n = .85		F _{pv} (From Tables) 1.003	Gravity .635
					F _g = .972

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

$$Q = (12.365)(30)(.9981)(.9721)(1.003) = \underline{361} \text{ MCF/D}$$

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

NOTE: The well blew dry gas.

$$Aof = \left(\frac{304704}{303408} \right)^n = (1.0043)^{.85} (361) = (1.0036)(361)$$

$$Aof = \underline{362} \text{ MCF/D}$$



TESTED BY Jesse B. Goodwin

WITNESSED BY _____

L. E. Mabe, Jr.
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