

Operator El Paso Natural Gas Company		Lease Hardie No. 11	
Location 970'N, 1500'W, Section 25, T29N, R8W		County San Juan	State New Mexico
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3138	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 3018	To 3068	Total Depth: 3138	Shut In 5-3-73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 1041	+ 12 = PSIA 1053	Days Shut-in 11	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 97	+ 12 = PSIA 109		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 137	
Temperature: T = 60 °F	n = .85		Fpv (From Tables) 1.007	Gravity .645	Fg = .9645
Ft = 1.000					

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

$$Q = (12.365)(109)(1.000)(.9645)(1.007) = \underline{\quad 1309 \quad} \text{ MCF/D}$$

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

NOTE: Blew clear gas for entire test.

$$Aof = Q \left(\frac{1108809}{1090040} \right)^n = 1309 (1.0172)^{.85} = 1309 (1.0146)$$

$$Aof = \underline{\quad 1329 \quad} \text{ MCF/D}$$

TESTED BY Jesse B. Goodwin

WITNESSED BY _____

William D. Welch

William D. Welch, Well Test Engineer

