

ccc

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 1/12/73

Operator EL PASO NATURAL GAS COMPANY		Lease Atlantic D Com L #13	
Location 1500/S, 850/E, Sec. 16, T30N, R10W		County SAN Juan	State NM
Formation Pictured Cliffs Ext.		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3101	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2974	To 3036	Total Depth: 3101	Shut In 1/3/73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 990	+ 12 = PSIA 1002	Days Shut-In 9	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 157	+ 12 = PSIA 169		Working Pressure: Pw PSIG Calculated	+ 12 = PSIA 213	
Temperature: T = 61 °F	Ft = .9990	n = .85	Fpv (From Tables) 1.014	Gravity .635	Fg = .9721

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

$$Q = (12.365)(169)(.9990)(.9721)(1.014) = \underline{2058} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1004004}{958635} \right)^n = (2058)(1.0473)^{.85} = (2058)(1.0401)$$

$$Aof = \underline{2140} \text{ MCF/D}$$

NOTE: The well produced a heavy fog of water throughout the test.

TESTED BY W. D. Welch

WITNESSED BY _____

William D Welch
William D. Welch
Well Test Engineer

