

CCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/11/72

Operator EL PASO NATURAL GAS COMPANY		Lease Hughes #19	
Location <u>1700</u> 1050/N, 1650 /E, Sec. 20, T29N, R8W		County San Juan	State NM
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 3182	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 3076	To 3100	Total Depth: 3182	Shut In 12/4/72
Stimulation Method		Flow Through Casing X	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 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 141	+ 12 = PSIA 153	Working Pressure: Pw PSIG Calculated	+ 12 = PSIA		
Temperature: T = 61 °F	Ft = .9990	n = .85	Fpv (From Tables) 1.014	Gravity .645	Fg = .9645

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

$$Q = (12.365)(153)(.9990)(.9645)(1.014) = \underline{1848} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1108809}{1071173} \right)^n = (1848)(1.0351)^{.85} = (1848)(1.0298)$$

$$Aof = \underline{1903} \text{ MCF/D}$$

NOTE: Well produced a very light mist of water throughout the test.

TESTED BY B. J. Broughton

WITNESSED BY _____

William D Welch
William D. Welch
Well Test Engineer

