

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 26, 1978

Operator El Paso Natural Gas Company		Lease Mudge #3-A (PC)	
Location NW 9-31-11		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5523'	Tubing: Diameter 1 1/4	Set At: Feet 2864'
Pay Zone: From 2842	To 2878'	Total Depth: 5523	Shut In 6-12-78
Stimulation Method		Flow Through Casing XXX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, 858	PSIG	+ 12 = PSIA 870	Days Shut-In 14	Shut-In Pressure, Tubing 858	PSIG + 12 = PSIA 870
Flowing Pressure: P 151	PSIG	+ 12 = PSIA 163		Working Pressure: P _w 159	PSIG + 12 = PSIA 171
Temperature: T = 62 °F		n = Ft = .9987		F _{pv} (From Tables) 1.016	Gravity .670 F _g = .9463

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

$$Q = 12.365(163)(.9987)(.9463)(1.016) = \underline{1935} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{756900}{727659} \right)^n = (1.0402)^{.85} = (1935) = (1.0341)(1935)$$

$$Aof = \underline{2001} \text{ MCF/D}$$

Note: Well blew dry gas throughout test.
Well vented 260 MCF to the atmosphere during the test.

TESTED BY D. Wright

WITNESSED BY _____

C. R. Wagner
Well Test Engineer

