

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE/ May 28, 1975

Operator El Paso Natural Gas Company		Lease Lackey A #8	
Location 1800/N, 1180/W, Sec. 12, T29N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2385'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2244	To 2288'	Total Depth: PBT 2385' 2374'	Shut In 5-21-75
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches		Choke Constant: C		Tubingless Completion	
.750		12.365			
Shut-In Pressure, Casing,	PSIG	+ 12 = PSIA	Days Shut-In	Shut-In Pressure, Tubing	PSIG
735		747	7	No Tubing	--
Flowing Pressure: P	PSIG	+ 12 = PSIA		Working Pressure: P _w	PSIG
74		86		Calculated	103
Temperature:		n =		F _{pv} (From Tables)	Gravity
T = 62 °F	F _t = 0.9981	.85		1.000	670
				F _g = 0.9463	

$$\text{CHOKE VOLUME} = Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$$

$$Q = 12.365(86)(0.9981)(0.9463)(1.009)$$

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

$$Aof = Q \left(\frac{558009}{547400} \right)^n = 1013(1.0194)^{.85} = 1013(1.0164)$$

Aof = 1030 MCF/D

Note: The well produced a medium mist of drip during the test. The well vented 144.48 MCF of gas during the test.

TESTED BY C. Rhames

WITNESSED BY _____

Teren W Fothergill
Well Test Engineer