

OPEN FLOW TEST DATA

DATE September 6, 1977

Operator El Paso Natural Gas Company		Lease Roelofs #3-A	
Location NW 15-29-08		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4 1/2	Set At: Feet 5595'	Tubing: Diameter 2 3/8	Set At: Feet 5509'
Pay Zone: From 4629	To 5559	Total Depth: 5595	Shut In 8-26-77
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG	+ 12 = PSIA	Days Shut-In 11	Shut-In Pressure, Tubing PSIG	+ 12 = PSIA	
			721	733	
Flowing Pressure: P PSIG	+ 12 = PSIA	Working Pressure: P _w PSIG	+ 12 = PSIA		
217	229	Calc.	454		
Temperature: T = 68 °F	n =	F _{pv} (From Tables)	Gravity		
F _t = .9924	.75	1.022	.670	F _g = .9463	

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

$$Q = 12.365(229)(.9924)(.9463)(1.022) = \underline{2718} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{537289}{331173} \right)^n = 2718(1.6224)^{.75} = 2718(1.4375)$$

$$Aof = \underline{3907} \text{ MCF/D}$$

Note: Well unloaded slug of oil, then
blew light fog rest of test. Well vented
352 MCF of gas to the atmosphere during test.

TESTED BY J. Easley

WITNESSED BY _____

[Signature]
Well Test Engineer

