

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

CORRECTED COPY

DATE May 28, 1975

Operator El Paso Natural Gas Company		Lease San Juan 32-9 Unit #84 (PC)	
Location 900/S, 1460/W, Sec. 14, T31N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undes	
Casing: Diameter 4.500	Set At: Feet 3195'	Tubing: Diameter 1.900	Set At: Feet 3075'
Pay Zone: From 3050	To 3074'	Total Depth: PBT 3195' 3183'	Shut In 5-12-75
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing XX

Choke Size, Inches .750		Choke Constant: C 12.365		Packer set at 1216'	
Shut-In Pressure, Casing, PSIG --	+ 12 = PSIA --	Days Shut-In 16	Shut-In Pressure, Tubing PSIG 900	+ 12 = PSIA 912	
Flowing Pressure: P PSIG 248	+ 12 = PSIA 260		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 658	
Temperature: T = 60 °F Ft = 1.000	n = .85		F _{pv} (From Tables) 1.023	Gravity .635 F _g = 0.9721	

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

$$Q = (12.365)(260)(1.0000)(0.9721)(1.023) = 3197 \text{ MCF/D}$$

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

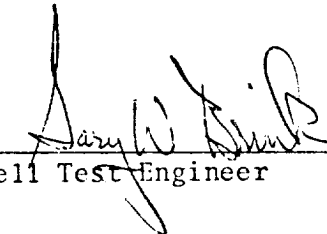
$$Aof = Q \left(\frac{831744}{398780} \right)^n = 3197(2.0857)^{.85} = 3197(1.8680)$$

$$Aof = 5972 \text{ MCF/D}$$

Note: The well produced a dry gas flow.
The gas vented during this test
was 409.33 MCF.

TESTED BY F. Johnson

WITNESSED BY


Well Test Engineer
