

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE July 24, 1978

Operator El Paso Natural Gas Company		Lease Case #6-A (PC)	
Location SE/4 5-31-11		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5469'	Tubing: Diameter 1 1/4	Set At: Feet 2881'
Pay Zone: From 5099	To 5421	Total Depth: 5469'	Shut In 7-7-78
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 923	+ 12 = PSIA 935	Days Shut-In 17	Shut-In Pressure, Tubing PSIG 923	+ 12 = PSIA 935	
Flowing Pressure: P PSIG 216	+ 12 = PSIA 228		Working Pressure: P <sub>w</sub> PSIG 222	+ 12 = PSIA 234	
Temperature: T = 64 °F	F <sub>t</sub> = .9962	n = .85	F <sub>pv</sub> (From Tables) 1.024	Gravity .660	F <sub>g</sub> = .9535

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

$$Q = 12.365(228)(.9962)(.9535)(1.024) = \underline{2742} \text{ MCF/D}$$

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

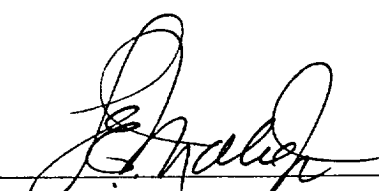
$$Aof = Q \left( \frac{P_c^2}{P_c^2 - P_w^2} \right)^n = (1.0668)^{.85} = (1.0565)(2742) = 2897$$

Note: Well vented 588 MCF of gas during test.

$$Aof = \underline{2897} \text{ MCF/D}$$

TESTED BY Dave Wright

WITNESSED BY \_\_\_\_\_

  
Well Test Engineer