

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADATE May 22, 1974

Operator El Paso Natural Gas Company		Lease Forrest #3	
Location 1090/S, 1460/W, Sec. 26, T30N, R11W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Aztec	
Casing: Diameter 2.875	Set At: Feet 2493'	Tubing: Diameter No Tubing	Set At: Feet
Pay Zone: From 2300'	To 2332'	Total Depth: PBD 2493' 2483'	Shut in 4-8-74
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 394	+ 12 = PSIA 406	Days Shut-In 44	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 110	+ 12 = PSIA 122		Working Pressure: P <sub>w</sub> PSIG Calculated	+ 12 = PSIA 147	
Temperature: T = 67 °F	F <sub>t</sub> = .9933	n = .85	F <sub>pv</sub> (From Tables) 1.0110	Gravity .655	F <sub>g</sub> = .9571

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

$$Q = 12.365(122)(.9933)(.9571)(1.0110) = \underline{1450} \text{ MCF/D}$$

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

$$Aof = Q \left( \frac{164836}{143227} \right)^n = 1450(1.1509)^{.85} = 1450(1.1269)$$

$$Aof = \underline{1634} \text{ MCF/D}$$

Note: The well blew a very light fog of water.

TESTED BY L. W. Fothergill

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

Loren W. Fothergill  
Loren W. Fothergill  
Well Test Engineer