

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 25, 1975

Operator El Paso Natural Gas Company		Lease Scott #12	
Location 1735/N, 1500/E, Sec. 3, T31N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 2979'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2758'	To 2806'	Total Depth: PBD 2979' 2968'	Shut In 9-18-75
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 932	+ 12 = PSIA 944	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 234	+ 12 = PSIA 246		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 306	
Temperature: T = 66 °F F _t = .9943	n = .85		F _{pv} (From Tables) 1.020	Gravity 0.635 F _g = .9721	

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

$$Q = 12.365(246)(.9943)(.9721)(1.020)$$

$$= \underline{2999} \text{ MCF/D}$$

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


$$Aof = Q \left(\frac{891136}{797363} \right)^n = 2999(1.1176)^{.85} = 2999(1.0991)$$

$$Aof = \underline{3296} \text{ MCF/D}$$

Note: Light fog of condensate and water throughout test. Gas vented during 3 hour test = 402 MCF.

TESTED BY Don Norton

WITNESSED BY _____


Well Test Engineer
