

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE July 10, 1975

Operator El Paso Natural Gas Company		Lease Kelly A #5	
Location 1480/N, 1780/W, Sec. 15, T31N, R10W		County San Juan	State New Mexico
Formation Pictured Cliffs		Pool Undes	
Casing: Diameter 2.875	Set At: Feet 3184'	Tubing: Diameter No Tubing	Set At: Feet --
Pay Zone: From 2966'	To 2976'	Total Depth: PBD 3184' 3173'	Shut In 6-27-75
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 927	+ 12 = PSIA 939	Days Shut-In 13	Shut-In Pressure, Tubing PSIG No Tubing	+ 12 = PSIA --	
Flowing Pressure: P PSIG 216	+ 12 = PSIA 228		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 288	
Temperature: T = 60 °F	F _t = 1.000	n = .85	F _{pv} (From Tables) 1.020	Gravity .635	F _g = .9721

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

$$Q = 12.365(228)(1.00)(.9721)(1.020) = \underline{2795} \text{ MCF/D}$$

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

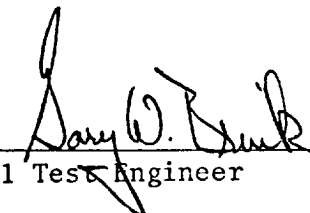
$$Aof = Q \left(\frac{881721}{798925} \right)^n = 2795(1.104)^{.85} = 2795(1.088)$$

$$Aof = \underline{3040} \text{ MCF/D}$$

Note: The well blew a light mist of water throughout test. During the test 387.29 MCF of gas was vented to atmosphere.

TESTED BY J. Goodwin

WITNESSED BY _____


Well Test Engineer
