

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 4-19-73

Operator El Paso Natural Gas Company		Lease Riddle F #11	
Location 1460/N, 800/W, Sec. 20, T28N, R8W		County San Juan	State NM
Formation Pictured Cliffs		Pool So. Blanco	
Casing: Diameter 2.875	Set At: Feet 2216	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2106	To 2168	Total Depth: 2220	Shut In 4/12/73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365		Tubingless Completion	
Shut-In Pressure, Casing, PSIG 786	+ 12 = PSIA 798	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 94	+ 12 = PSIA 106		Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 126	
Temperature: T = 56 °F	F _t = 1.004	n = .85	F _{pv} (From Tables) 1.007	Gravity .645	F _g = .9645

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

$$Q = (12.365)(106)(1.004)(.9645)(1.007) = \underline{1278} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{636804}{620928} \right)^n = 1278 (1.0256)^{.85} = 1278 (1.0217)$$

$$Aof = \underline{1307} \text{ MCF/D}$$

NOTE: Well blew dry gas.

TESTED BY C. Rhames

WITNESSED BY _____



William D Welch

William D. Welch
Well Test Engineer