

OCC

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 12/29/72

Operator EL PASO NATURAL GAS COMPANY		Lease Sunray F #5	
Location 870/N, 1140/E, Sec. 26, T30N, R10W		County San Juan	State NM
Formation Pictured Cliffs <i>Ext.</i>		Pool Blanco	
Casing: Diameter 2.875	Set At: Feet 2978	Tubing: Diameter No tubing	Set At: Feet
Pay Zone: From 2868	To 2910	Total Depth: 2978	Shut In 12/22/72
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 1015	+ 12 = PSIA 1027	Days Shut-In 7	Shut-In Pressure, Tubing PSIG No tubing	+ 12 = PSIA	
Flowing Pressure: P PSIG 247	+ 12 = PSIA 259	Working Pressure: P _w PSIG Calculated	+ 12 = PSIA 325		
Temperature: T = 60 °F F _t = 1.000	n = .85	F _{pv} (From Tables) 1.023	Gravity .635	F _g = .9721	

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

$$Q = (12.365)(259)(1.000)(.9721)(1.023) = \underline{3185} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{1054729}{949104} \right)^n = 3185 (1.1113)^{.85} = 3185 (1.0938)$$

$$Aof = \underline{3484} \text{ MCF/D}$$

NOTE: The well blew a light spray of water throughout test.

TESTED BY W. D. Welch

WITNESSED BY _____

William D. Welch
William D. Welch
Well Test Engineer



