

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE 6-28-73

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit 180	
Location 1180/N, 1840/E Sec. 2, T-27N, R6W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4 1/2	Set At: Feet 7580	Tubing: Diameter 1 1/2	Set At: Feet 7491
Pay Zone: From 7314	To 7526	Total Depth: 7580	Shut In 6-6-73
Stimulation Method SEAL		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2694	+ 12 = PSIA 2706	Days Shut-In 22	Shut-In Pressure, Tubing, PSIG 2388	+ 12 = PSIA 2400	
Flowing Pressure: P _f , PSIG 304	+ 12 = PSIA 316	Working Pressure: P _w , PSIG 566	+ 12 = PSIA 578		
Temperature: T = 80 °F	n = .75	F _{pv} (From Tables) 1.023	Gravity .620	F _g = .9837	

$$\text{CHOKE VOLUME} = Q = C \times P_f \times F_f \times F_g \times F_{pv}$$

$$Q = (12.365)(316)(.9813)(.9837)(1.023) = 3858 \text{ MCF/D}$$

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

NOTE: The well produced a light mist throughout the test.

$$Aof = Q \left(\frac{7322436}{6988352} \right)^n = 3858(1.0478)^{.75} = 3858(1.0356)$$

$$Aof = 3996 \text{ MCF/D}$$

TESTED BY Rhames

WITNESSED BY _____



William D. Welch
William D. Welch, Well Test Engineer