

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 7-26-73

Operator El Paso Natural Gas Company		Lease San Juan 28-5 Unit 92	
Location 1820/S, 985/W, Sec 24 T-28N, R-5W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4.500	Set At: Feet 8612	Tubing: Diameter 1-1/2	Set At: Feet 8588
Pay Zone: From 8458	To 8602	Total Depth: 8612	Shut In 7-14-73
Stimulation Method SWF		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2515	+ 12 = PSIA 2527	Days Shut-In 12	Shut-In Pressure, Tubing PSIG 1820	+ 12 = PSIA 1832	
Flowing Pressure: P PSIG 178	+ 12 = PSIA 190		Working Pressure: P _w PSIG 366	+ 12 = PSIA 378	
Temperature: T = 73°F	n = F _t = 0.9877		F _{pv} (From Tables) 1.014	Gravity .610	F _g = .9918

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

$$Q = (12.365)(190)(0.9877)(0.9918)(1.014) = 2334 \text{ MCF/D}$$

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

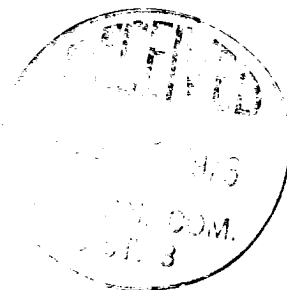
NOTE: The well produced a light fog of distillate and water throughout the test.

$$A_{of} = Q \left(\frac{6385729}{6242845} \right)^n = (2334)(1.0229)^{.75} = (2334)(1.0171)$$

$$A_{of} = 2374 \text{ MCF/D}$$

TESTED BY Don Norton

WITNESSED BY



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