

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE August 28, 1973

Operator El Paso Natural Gas Company		Lease San Juan 28-6 Unit #182	
Location 990'S, 1180'W, Section 12, T-27-N, R-6-W		County Rio Arriba	State New Mexico
Formation Dakota		Pool Basin	
Casing: Diameter 4 1/2"	Set At: Feet 7676'	Tubing: Diameter 1 1/2"	Set At: Feet 7606'
Pay Zone: From 7734'	To 7630'	Total Depth: 7676'	Shut In 8-21-73
Stimulation Method Sandwater Frac		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2692	+ 12 = PSIA 2704	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 2326	+ 12 = PSIA 2338	
Flowing Pressure: P PSIG 382	+ 12 = PSIA 394		Working Pressure: P _w PSIG 723	+ 12 = PSIA 735	
Temperature: T = 86°F	Ft = .9759	n = .75	F _{pv} (From Tables) 1.029	Gravity .620	F _g = .9837

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

$$Q = (12.365)(394)(.9759)(.9837)(1.029) = \underline{4812} \text{ MCF/D}$$

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

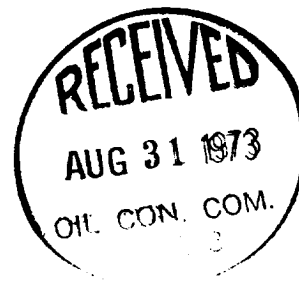
Note: The well produced a medium mist of water and distillate throughout the test.

$$Aof = Q \left(\frac{7311616}{6771391} \right)^n = 4812 (1.0798)^{.75} = 4812 (1.0593)$$

$$Aof = \underline{5098} \text{ MCF/D}$$

TESTED BY W. Welch

WITNESSED BY _____



William D Welch

William D. Welch
Well Test Engineer