

022

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE 3/14/73

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 28-7 Unit #189	
Location 1180/N, 1180/E, Sec. 35, T28N, R7W		County Rio Arriba	State NM
Formation Dakota		Pool Basin	
Casing: Diameter 4 1/2	Set At: Feet 7337	Tubing: Diameter 1 1/2	Set At: Feet 7312
Pay Zone: From 7078	To 7318	Total Depth: 7337	Shut In 3/6/73
Stimulation Method SWF		Flow Through Casing XX	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2555	+ 12 = PSIA 2567	Days Shut-In 7	Shut-In Pressure, Tubing PSIG 1890	+ 12 = PSIA 1902	
Flowing Pressure, P PSIG 380	+ 12 = PSIA 392		Working Pressure: Pw PSIG 678	+ 12 = PSIA 690	
Temperature: T = 74 °F	Ft = .9868	n = .75	Fpv (From Tables) 1.037	Gravity .650	Fg = .9608

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

$$Q = 12.365 \times 392 \times .9868 \times .9608 \times 1.037 = 3995 \text{ MCF/D}$$

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

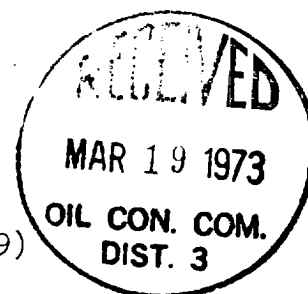
$$Aof = Q \left(\frac{6589489}{6113389} \right)^n = (3995)(1.0779)^{.75} = (3995)(1.0579)$$

$$Aof = 4226 \text{ MCF/D}$$

NOTE: Blew heavy fog of water and
Light hydrocarbons.

TESTED BY Goodwin and Broughton

WITNESSED BY _____



William D. Welch
William D. Welch
Well Test Engineer