

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE November 15, 1972

Operator EL PASO NATURAL GAS COMPANY		Lease San Juan 29-7 #102Y	
Location 1840'S/1550'W, Sec. 15, T-29-N, R-7-W		County Rio Arriba	State NM
Formation Mesaverde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5588	Tubing: Diameter 2.375	Set At: Feet 5534
Pay Zone: From 4816	To 5570	Total Depth: 5588	Shut In 11/5/72
Stimulation Method SWF		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches .750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 956	+ 12 = PSIA 968	Days Shut-In 10	Shut-In Pressure, Tubing PSIG 954	+ 12 = PSIA 966	
Flowing Pressure: P PSIG 350	+ 12 = PSIA 362		Working Pressure: P _w PSIG 808	+ 12 = PSIA 820	
Temperature: T = 71 °F	n = .75		F _{pv} (From Tables) 1.034	Gravity .660	F _g = .9535

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

$$Q = (12.365)(362)(.9896)(.9535)(1.034) = \underline{4367} \text{ MCF/D}$$

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

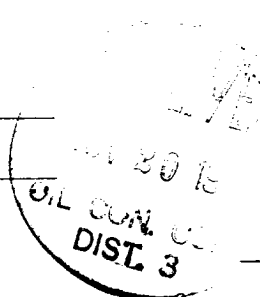
$$Aof = Q \left(\frac{937024}{264624} \right)^{.75} = (4367)(3.5410)^{.75} = (4367)(2.5813)$$

$$Aof = \underline{11273} \text{ MCF/D}$$

NOTE: Blew heavy mist of water

TESTED BY Jesse Goodwin

WITNESSED BY _____



William D Welch
William D. Welch
Well Test Engineer