FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE 8-17-73

Operator: El Paso Natural Gas Company		Lease: San Juan 28-7 Unit #186	
Location: 1600/S, 1500/W, Sec. 13, T28N, R7W		County: Rio Arriba	State: New Mexico
Formation: DAKOTA		Pool: BASIN	
Casing: Diameter: 4.500	Set At: Feet: 7937	Tubing: Diameter: 1 1/2 "	Set At: Feet: 7893
Pay Zone: From: 7680 '	To: 7917 '	Total Depth: 7937'	Shut In: 8-6-73
Stimulation Method: Sand Water Frac		Flow Through Casing: X	Flow Through Tubing:

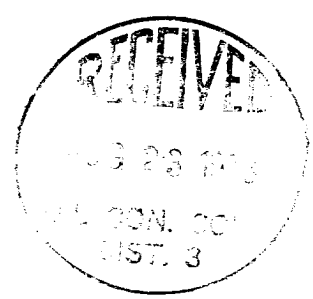
Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-In Pressure, Casing, PSIG: 2787	+ 12 = PSIA: 2799	Days Shut-In: 11	Shut-In Pressure, Tubing PSIG: 2744	+ 12 = PSIA: 2756	
Flowing Pressure: P PSIG: 406	+ 12 = PSIA: 418		Working Pressure: P_w PSIG: 718	+ 12 = PSIA: 730	
Temperature: T= 75 °F Ft= 9859	n = .75		Fpv (From Tables): 1.037	Gravity: .650	Fg = .9608

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

$Q = (12.365)\ (418)\ (.9859)\ (.9608)\ (1.037) =$ 5077 MCF/D

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

$Aof = Q \left(\frac{7834401}{7301501} \right)^n = 5077\ (1.0730)^{.75} = 5077\ (1.0543)$



Aof = 5353 MCF/D

Note: Well blew a Light spray of water throughout Test.

TESTED BY R. Hardey

WITNESSED BY _____

William D. Welch

William D. Welch
Well Test Engineer