FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE December 8, 1973

Operator: El Paso Natural Gas Company		Lease: San Juan 29-5 Unit #63	
Location: 1180/S, 1180/W, Sec. 17, T29N, R5W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 8038'	Tubing: Diameter: 1 1/2"	Set At: Feet: 7973'
Pay Zone: From: 7850	To: 7988	Total Depth: 8038	Shut In: 12-1-73
Stimulation Method: Sandwater Frac		Flow Through Casing: X	Flow Through Tubing:

Choke Size, Inches: .750		Choke Constant: C: 12,365			
Shut-In Pressure, Casing, PSIG: 2689	+ 12 = PSIA: 2701	Days Shut-In: 7	Shut-In Pressure, Tubing PSIG: 2103	+ 12 = PSIA: 2115	
Flowing Pressure: P PSIG: 303	+ 12 = PSIA: 315		Working Pressure: P_w PSIG: 558	+ 12 = PSIA: 570	
Temperature: T= 68 °F Ft= .9924	n = .75		Fpv (From Tables): 1.023	Gravity: .595 Fg = 1.0041	

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

$Q = (12.365)(315)(.9924)(1.0041)(1.023) = 3971$ MCF/D

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

$Aof = Q \left(\frac{7295401}{6970591} \right)^n = 3971(1.0466)^{.75} = 3971(1.0348)$

Aof = 4109 MCF/D

Note: Well produced a light to medium fog of water.

TESTED BY B. Broughton

WITNESSED BY _____

William D. Welch

William D. Welch
Well Test Engineer