FORM 23-75R (REV. 1-63)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE 10-22-68

Operator: El Paso Natural Gas Company		Lease: San Juan 27-4 Unit No. 51	
Location: 1450'N, 800'E, Sec. 29, T-27-N, R-4-W		County: Rio Arriba	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 8173	Tubing: Diameter: 2.375	Set At: Feet: 7921
Pay Zone: From: 7945	To: 8167	Total Depth: 8173	Shut In: 10-12-68
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: Plate & Meter: 2.750"Plate, 4" M.R.	Choke Constant: Meter: C: 41.9208		Tested through a 3/4" variable choke
Shut-In Pressure, Casing, PSIG: 2550	+ 12 = PSIA: 2562	Days Shut-In: 10	Shut-In Pressure, Tubing PSIG: 2561	+ 12 = PSIA: 2573
Flowing Pressure: P PSIG: 161 M.R.; 380 W.H.	+ 12 = PSIA: 173 M.R.; 392 W.H.		Working Pressure: P_w PSIG: 997	+ 12 = PSIA: 1009
Temperature: T= 76 °F Ft=.9850	n = .75		Fpv (From Tables): 1.018	Gravity: .700 Fg = 1.1952

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

Q = Calculated from crifice meter reading = 4762 MCF/D

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

Aof = $\left(\frac{6620329}{5602248} \right)^n = (4594)(1.1817)^{.75} = (4594)(1.1333)$

Note: The well produced 30.58 bbls of 53° API Gravity oil and 13.43 bbls. of water into the tank during the three hour test.

Aof = 5397 MCF/D

TESTED BY C.R. Wagner & B. J. Broughton

Checked

WITNESSED BY T. B. Grant

OCT 25 1968

OIL CON. COM.

DIST. 3

T. B. Grant