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

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE November 5, 1968

Operator: El Paso Natural Gas Company		Lease: San Juan 27-4 Unit No. 48	
Location: 1750'S, 850'W, Sec. 20, 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: 7884
Pay Zone: From: 7942	To: 8158	Total Depth: 8173	Shut In: 10-25-68
Stimulation Method: Sand Water Frac.		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: 2.750 plate; 4" Meter Run	Choke Constant: C: 41.9208		Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG: 2521	+ 12 = PSIA: 2533	Days Shut-In: 12	Shut-In Pressure, Tubing PSIG: 2537	+ 12 = PSIA: 2549
Flowing Pressure: P PSIG: 129 M.R.; 310 W.H.	+ 12 = PSIA: 141 M.R.; 322 W.H.		Working Pressure: P_w PSIG: Calc.	+ 12 = PSIA: 782
Temperature: T = 83 °F Ft = .9786	n = .75		Fpv (From Tables): 1.013	Gravity: .700 Fg = 1.1952

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

Q = Calculated from orifice meter readings = 4168 MCF/D

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

$$Aof = \left(\frac{6497401}{5885877} \right)^n = (4168)(1.1038)^{.75} = (4168)(1.0768)$$

NOTE: The well produced 22.38 bbls. of water and oil during the test.

Aof = 4489 MCF/D

RECEIVED
NOV 12 1968
OIL CON. COM.
DIST. 3

TESTED BY Jesse Goodwin & Bobby Broughton

CALCULATED ~~WITNESSED~~ BY Hermon E. McAnally

CHECKED BY: Tom Grant

H. L. Kendrick