FORM 23-75 (12-66)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE April 24, 1972

Operator: EL PASO NATURAL GAS COMPANY		Lease: Huerfano Unit No. 221	
Location: 1550 S - 1510 W Sec. 13-25N-10W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 6721	Tubing: Diameter: 2.375	Set At: Feet: 6593
Pay Zone: From: 6514	To: 6642	Total Depth: 6721	Shut In: 4-15-72
Stimulation Method: SWF		Flow Through Casing:	Flow Through Tubing: XXX

Choke Size, Inches: 4" M.R.; 2.750 Plate	Choke Constant: C: 41.10 Plate		Tested through 3/4" Variable choke	
Shut-In Pressure, Casing, PSIG: 1924	+ 12 = PSIA: 1936	Days Shut-In: 9	Shut-In Pressure, Tubing PSIG: 1924	+ 12 = PSIA: 1936
Flowing Pressure: P PSIG: MR 145 w/h 401	+ 12 = PSIA: MR 157 w/h 413		Working Pressure: Pw PSIG: 909	+ 12 = PSIA: 921
Temperature: T= 78 °F Ft= .9831	n = .75		Fpv (From Tables): 1.016	Gravity: .710 Fg = 1.187

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

Q = Calculated from orifice meter readings = 4088 MCF/D

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

NOTE: The well produced 29.5 bbls. of 53.4 gravity oil during the test.

$Aof = \left(\frac{3748096}{2899855} \right)^n = (1.2925)^{.75}(4088) = (1.2122)(4088)$

Aof = 4956 MCF/D

TESTED BY Goodwin and Rhames

WITNESSED BY

H. E. McAnally