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

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE June 6, 1967

Operator: El Paso Natural Gas Company		Lease: Huerfano Unit No. 164	
Location: 1090'S, 1800'E, Sec. 20, T-26-N, R-9-W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 4.500	Set At: Feet: 6645	Tubing: Diameter: 2.375	Set At: Feet: 6419
Pay Zone: From: 6444	To: 6556	Total Depth: 6645	Shut In: 5-28-67
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: 2 1/2" plate; 4" meter run	Orifice Book Constant: C: 33.293			Tested through a 3/4" variable choke	
Shut-In Pressure, Casing, PSIG: 1720	+ 12 = PSIA: 1732	Days Shut-In: 11	Shut-In Pressure, Tubing PSIG: 1715	+ 12 = PSIA: 1727	
Flowing Pressure: P PSIG: 118 meter; 304 W.H.	+ 12 = PSIA: 130 meter; 316 W. H.		Working Pressure: P_w PSIG: 770	+ 12 = PSIA: 782	
Temperature: T= 67 °F Ft= .9933	n = .75		Fpv (From Tables): 1.014	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 reading = 3302 MCF/D

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

$Aof = \left(\frac{2999824}{2388300} \right)^n = (3302)(1.2560)^{.75} = (3302)(1.1862)$

NOTE: The well produced 30.9 bbls. of 45 API Gravity oil during the test.

Aof = 3917 MCF/D

TESTED BY R. F. Headrick

CHECKED BY

WITNESSED BY T. B. Grant

CALCULATED BY H. E. McAnally

H. L. Kendrick