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

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION DATE 8-29-66

Operator: El Paso Natural Gas Company		Lease: Huerfanito Unit No. 102 (DK)	
Location: 800'S, 1180'W, Sec. 34, T-27-N, R-9-W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 5.500	Set At: Feet: 6970	Tubing: Diameter: 2.375	Set At: Feet: 6809
Pay Zone: From: 6660	To: 6820	Total Depth: 6981	Shut In: 8-21-66
Stimulation Method: Sand Water Frac		Flow Through Casing:	Flow Through Tubing: x

Choke Size, Inches: .750	Choke Constant: C: 12.365	Backer Model "F" Packer set at 4715	
Shut-In Pressure, Casing, PSIG: 866 (MV)	+ 12 = PSIA: 878 / Days Shut-In: 8	Shut-In Pressure, Tubing PSIG: 1917 (DK)	+ 12 = PSIA: 1929
Flowing Pressure: P PSIG: 393	+ 12 = PSIA: 405	Working Pressure: P_w PSIG: Calc.	+ 12 = PSIA: 863
Temperature: T= 83 °F Ft= .9786	n = .75	Fpv (From Tables): 1.043	Gravity: .700 Fg = .9258

ISIPT (MV) = 843 psig
FSIPC (MV) = 880 psig

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

$Q = (12.365)(405)(.9786)(.9258)(1.043)$ = 4,732 MCF/D

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

$$Aof = \left(\frac{3,721,041}{2,976,272} \right)^n = (4732)(1.2502)^{.75} = (4732)(1.1823)$$

Aof = 5,595 MCF/D

NOTE: Unloaded oil and light hydrocarbons for 5 minutes, then blew a heavy fog of light hydrocarbons and water throughout the remainder of the test.

RECEIVED
SEP 1 1966
OIL CON. COM.
DIST. 3

TESTED BY J. B. Goodwin

CHECKED ~~WITNESSED~~ BY T. B. Grant

CALCULATED BY H. E. McAnally

H. L. Kendrick