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

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DUAL COMPLETION CORRECTED COPY DATE September 9, 1964

Operator: El Paso Natural Gas Company		Lease: Allison Unit No. 16 (DK) (OWWO)	
Location: 890'S, 1800'W, Sec. 15, T-32-N, R-7-W		County: San Juan	State: New Mexico
Formation: Dakota		Pool: Basin	
Casing: Diameter: 5.500	Set At: Feet: 8488	Tubing: Diameter: 1.90	Set At: Feet: 8400
Pay Zone: From: 8310	To: 8430	Total Depth: 8490	Shut In: 8-18-64
Stimulation Method: Sand Water Frac		Flow Through Casing:	Flow Through Tubing: X

Choke Size, Inches: 0.750		Choke Constant: C: 12.365		Baker Model "D" Packer at 6115 ft.	
Shut-In Pressure, Casing, PSIG: 1085 (MV)	+ 12 = PSIA: 1097	Days Shut-In: 22		Shut-In Pressure, Tubing PSIG: 1823 (DK)	+ 12 = PSIA: 1835
Flowing Pressure: P PSIG: 120	+ 12 = PSIA: 132			Working Pressure: P_w PSIG: Calculated	+ 12 = PSIA: 494
Temperature: T = 55 °F	F_t = 1.0048	n = .75		Fpv (From Tables): 1.010	Gravity: .605 F_g = .9958

Initial SIPT (MV) = 1085 psig
Final SIPC (MV) = 1088 psig

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

$Q = (12.365)\ (132)\ (1.0048)\ (.9958)\ (1.010) =$ 1649 MCF/D

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

$$\text{Aof} = \left(\frac{3,367,225}{3,123,189} \right)^n = (1649)\ (1.0781)^{.75} = (1649)\ (1.0581)$$

Aof = 1745 MCF/D

NOTE: Blew small amount of water vapor throughout test.

RECEIVED
SEP 15 1964
OIL CON. COM.
DIST. 3

TESTED BY J. B. Goodwin

CALCULATED WITNESSED BY H. L. Kendrick

Lewis D. Galloway

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