23-79R (REV. 1-63)

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE June 3, 1965

Operator: El Paso Natural Gas Company		Lease: Kernaghan No. 3 (OWWO)	
Location: 990'N, 1650'E, Section 29, T-31-N, R-8-W		County: San Juan	State: New Mexico
Formation: Mesa Verde		Pool: Blanco	
Casing: Diameter: 4.500	Set At: Feet: 5888	Tubing: Diameter: 2.375	Set At: Feet: 5795
Pay Zone: From: 5320	To: 5818	Total Depth: 5888	Shut In: 5-27-65
Stimulation Method: Sand Water Frac		Flow Through Casing	Flow Through Tubing: X

Choke Size, Inches: .750		Choke Constant: C: 12.365			
Shut-in Pressure, Casing, PSIG: 818	+ 12 = PSIA: 830	Days Shut-in: 7	Shut-in Pressure, Tubing PSIG: 819	+ 12 = PSIA: 831	
Flowing Pressure: P PSIG: 216	+ 12 = PSIA: 228		Working Pressure: Pw PSIG: 706	+ 12 = PSIA: 718	
Temperature: T= 72 °F	Ft= .9887	n = .75	Fpv (From Tables): 1.018	Gravity: .620	Fg= .9837

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = (12.365) (228) (.9887) (.9837) (1.018) = 2,791 MCF/D

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

Aof = $\left(\frac{690,561}{175,037} \right)^n$ = $(3.9452)^{.75}$ (2791) = (2.7993) (2791)

Aof = 7,813 MCF/D

NOTE: Well made light spray of water and distillates throughout the test.

TESTED BY Dan Roberts

CHECKED BY H. E. McAnally

WITNESSED BY

RECEIVED
JUN 8 1965
OIL CON. COM.
DIST. 3

Lewis D. Galloway