

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE June 14, 1965

Operator El Paso Natural Gas Company		Lease Walker No. 1 (OWWO)	
Location 1650'N, 990'E, Section 31, T-31-N,R-9-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5743	Tubing: Diameter 2.375	Set At: Feet 5679
Pay Zone: From 5146	To 5708	Total Depth: 5743	Shut In 6-4-65
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, 899 PSIG	+ 12 = PSIA 911	Days Shut-In 10	Shut-In Pressure, Tubing 900 PSIG	+ 12 = PSIA 912
Flowing Pressure: P 312 PSIG	+ 12 = PSIA 324		Working Pressure: Pw 737 PSIG	+ 12 = PSIA 749
Temperature: T = 89 °F	Ft = .9732	n = .75	Fpv (From Tables) 1.029	Gravity .675 Fg = .9427

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

Q = (12.365) (324) (.9732) (.9427) (1.029) = 3,782 MCF/D

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

Aof = $\left(\frac{831,744}{270,743} \right)^n = (3782) (3.0720)^{.75} = (3,782) (2.3204)$

Aof = 8,776 MCF/D

NOTE: Well produced a light mist of distillate and water throughout the test.



TESTED BY R. F. Headrick

CHECKED BY H. E. McAnally

Lewis D. Galloway
L. D. Galloway