

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE May 9, 1966

Operator El Paso Natural Gas Company		Lease Barnes No. 4 (CWWO)	
Location 969'N, 1009'D, Section 26, T-32-N, R-11-W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5659	Tubing: Diameter 2.375	Set At: Feet 5584
Pay Zone: From 4931	To 5539	Total Depth: 5660	Shut In 5-1-66
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 834	+ 12 = PSIA 846	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 457	+ 12 = PSIA 449	
Flowing Pressure: P PSIG 291	+ 12 = PSIA 303		Working Pressure: P _w PSIG 698	+ 12 = PSIA 710	
Temperature: T = 87 °F	F _t = .9750	n = .75	F _{pv} (From Tables) 1.023	Gravity .635	F _g = .9721

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

$$Q = (12.365) (303) (.9750) (.9721) (1.023) = \underline{3633} \text{ MCF/D}$$

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

$$Aof = \left(\frac{715,716}{211,616} \right)^n = (3.3821)^{.75} (3633) = (2.4940) (3633)$$

NOTE: Well died 2 minutes after opened.
Unloaded slug of H₂O and Oil - blew
light fog of Distillate and H₂O rest
of test.

$$Aof = \underline{9061} \text{ MCF/D}$$

TESTED BY C. R. WagnerCHECKED BY H. E. McAnally
WITNESSED BY

RECEIVED
MAY 12 1966

H. L. Kendrick
H. L. Kendrick