

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE September 14, 1957

Operator COLORADO WESTERN EXPLORATION, INC.		Lease GOVERNMENT 1-19	
Location SW/4 Sec. 19 31N, 12W		County San Juan	State New Mexico
Formation Mesa Verda		Pool Blanco	
Casing: Diameter 7" 5 1/2"	Set At: Feet 5000' 6819'	Tubing: Diameter 2 7/8" 2 3/8"	Set At: Feet 4573' 5724'
Pay Zone: From 4613	To 4819	Total Depth: 6819	
Stimulation Method Sand Water Frac		Flow Through Casing	Flow Through Tubing X

Choke Size, Inches 0.750		Choke Constant: C 12.365			
Shut-In Pressure, Casing, PSIG 2077	+ 12 = PSIA 2089	Days Shut-In 8	Shut-In Pressure, Tubing PSIG 1086	+ 12 = PSIA 1098	
Flowing Pressure: P PSIG 165	+ 12 = PSIA 177		Working Pressure: Pw PSIG By Calculation 333	+ 12 = PSIA 333	
Temperature: T °F 70	n = 0.75		Fpr (From Tables) 1.011	Gravity Est. 0.680	

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

Q = (12.365) (177) (0.9905) (0.9393) (1.011) = 2,059 MCF/D

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

Aof = Q $\left(\frac{1,206,000}{1,095,300} \right)^n = (1.1)^{0.75} \times (2059) = 2213$

Aof = 2213 MCF/D

TESTED BY Virgil L. Stoshs

WITNESSED BY Fred Hilton





OIL CONSERVATION COMMISSION		
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