

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATADATE September 24, 1957

Operator COLORADO WESTERN EXPLORATION, INC.		Lease GOVERNMENT 1-19	
Location SW/4 Sec. 19 31N, 12W		County San Juan	State New Mexico
Formation Dakota		Pool	
Casing: Diameter 7" 5½"	Set At: Feet 5000' 6819'	Tubing: Diameter 2 7/8" 2 3/8"	Set At: Feet 4573 5724
Pay Zone: From 6747	To 6802	Total Depth: 6819	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches 0.750		Choke Constant: C 14.1605			
Shut-In Pressure, Casing, 2190	PSIG	+ 12 = PSIA 2202	Days Shut-In 18	Shut-In Pressure, Tubing 1099	PSIG + 12 = PSIA 1111
Flowing Pressure: P 530	PSIG	+ 12 = PSIA 542		Working Pressure: P _w By Calculation	PSIG + 12 = PSIA 899
Temperature: T 70	°F	n = 0.75		F _{pv} (From Tables) 1.061	Gravity Est. 0.680

$$\text{CHOKE VOLUME} = Q = C \times P_c \times F_c \times F_g \times F_{pv}$$

$$Q = (14.1605) (542) (0.9905) (0.9393) (1.061) = \underline{7576} \text{ MCF/D}$$

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

$$Aof = Q \left(\frac{4,849,000}{4,040,000} \right)^n = (7576) (1.2)^{0.75} = 8690$$

$$Aof = \underline{8690} \text{ MCF/D}$$

TESTED BY Virgil L. StoabsWITNESSED BY Fred Hilton

NOTE: Well Produced Heavy Mist of Distillate throughout Test.



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