

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE August 21, 1956

Operator El Paso Natural Gas Company		Lease Ludwick # 10 (P)	
Location 990°N, 990°E, Sec. 29-30N-10W		County San Juan	State New Mexico
Formation Pictured Cliff		Pool Aztec	
Casing: Diameter 5½ 7	Set At: Feet 4526-5298 4607	Tubing: Diameter 2"	Set At: Feet 5203
Pay Zone: From 2703	To 2754	Total Depth: Bridging plug set at 4600'	
Stimulation Method Sand Water Frac		Flow Through Casing X	Flow Through Tubing

Choke Size, Inches .750		Choke Constant: C 14.1605	
Shut-In Pressure, Casing, PSIG 563	- 12 = PSIA 575	Days Shut-In 9	Shut-In Pressure, Tubing PSIG - 12 = PSIA
Flowing Pressure: P PSIG 168	- 12 = PSIA 180	Working Pressure: P _w PSIG Calculated	- 12 = PSIA 181
Temperature: T 70	F .85	F _{pv} (From Tables) 1.017	Gravity .670 est.

CHOKE VOLUME $Q = C \times P_1 \times F_1 \times F_g \times F_{pv}$

$Q = 14.1605 \times 180 \times .9905 \times .9463 \times 1.017 = 2430$ MCF/D

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

$Aof = \left(\frac{330,625}{297,864} \right)^{.85} \times 2430 (1.1099)^{.85} = 2430 \times 1.0925$

Aof 2655 MCF/D

TESTED BY H. L. Kendrick

WITNESSED BY Fred Cook, MOCC

cc: E. J. Coel, Jr.

L. D. Galloway
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