

**DUAL COMPLETION**  
 EL PASO NATURAL GAS COMPANY  
**OPEN FLOW TEST DATA**

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DATE **August 2, 1956**

Operator <b>El Paso Natural Gas Company</b>		Lease <b>Ludwick #9</b>	
Location <b>1090S, 932W, 29-30-10</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Pictured Cliff</b>		Pool <b>Aztec Pictured Cliff</b>	
Casing: Diameter <b>7 5/8</b>	Set At: Feet <b>4460</b>	Tubing: Diameter <b>2</b>	Set At: Feet <b>4892</b>
Pay Zone: From <b>2482</b>	To <b>2509</b>	Total Depth: <b>Packer 2567 T. D. 5107 C/O 4970</b>	
Stimulation Method <b>Sand Water Frac</b>		Flow Through Casing <b>X</b>	Flow Through Tubing

Choke Size, Inches <b>.750</b>	Choke Constant: C <b>14,1605</b>			
Shut-In Pressure, Casing, PSIG <b>539 (FC)</b>	12 PSIA	Days Shut-in <b>13</b>	Shut-In Pressure, Tubing, PSIG <b>973 (MV)</b>	12 PSIA <b>985</b>
Flowing Pressure, P, PSIG <b>326</b>	12 PSIA	<b>338</b>	Working Pressure: Pw, PSIG <b>Calculated</b>	<b>339</b>
Temperature, T, F <b>90°</b>		<b>.85</b>	Fpv (From Tables) <b>1.023</b>	Gravity <b>.627</b>

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

$C \ 14,1605 \times 338 \times .9723 \times .9798 \times 1.023 \quad \underline{4665} \quad \text{MCF/D}$

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

$Aof = \left( \frac{303601}{188680} \right)^n \quad (1.6091) \times 4665 = 1.4980 \times 4665$

Aof **6988** MCF/D

TESTED BY **K. C. Mc Bride**

WITNESSED BY **Fred Cook (NMOC)**



*L. D. Galloway*  
**L. D. Galloway**

OIL CONSERVATION COMMISSION

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