

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE March 20, 1959

Operator <b>El Paso Natural Gas</b>		Lease <b>Huerfano No. 106 (D)</b>	
Location <b>1562S, 1830E; 33-27-10</b>		County <b>San Juan</b>	State <b>New Mexico</b>
Formation <b>Dakota</b>		Pool <b>Undesignated</b>	
Casing: Diameter <b>7-5/8</b>	Set At: Feet <b>5873</b>	Tubing: Diameter <b>2"</b>	Set At: Feet <b>6460</b>
Pay Zone: From <b>6409</b>	To <b>6485</b>	Total Depth: <b>6587 c/o 6520</b>	Shut in <b>3/5/59</b>
Stimulation Method <b>Sand Oil Frac.</b>		Flow Through Casing	Flow Through Tubing <b>X</b>

Choke Size, inches <b>.75</b>	Choke Constant: C <b>12.365</b>	<b>5-1/2 liner 5822 - 6586</b>	
Shut-In Pressure, Casing, PSIG <b>(G) 1123</b>	PSIA <b>1135</b>	Days Shut-In <b>15</b>	Shut-In Pressure, Tubing, PSIG <b>(D) 1968</b>
Flowing Pressure: P, PSIG <b>230</b>	PSIA <b>242</b>	Working Pressure: P <sub>w</sub> , PSIG <b>Calc. 501</b>	PSIA <b>1980</b>
Temperature: T, °F <b>75</b>		Fpv (From Tables) <b>1.029</b>	Gravity <b>.740</b>

Initial SIPT (G) = 1122 psig  
Final SIPC (G) = 1132 psig

Packer at 5795

CHOKE VOLUME = Q = C x P<sub>i</sub> x F<sub>v</sub> x F<sub>g</sub> x F<sub>pv</sub>

Q = 12.365 x 242 x .9859 x .9005 x 1.029 = 2733 MCF/D

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

Aof  $\left( \frac{3920400}{3669399} \right)^n$

1.0684<sup>.78</sup> x 2733 = 1.0508 x 2733

Aof 2872 MCF/D

TESTED BY R. R. Davis

WITNESSED BY

*L. D. Galloway*  
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