

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATADUAL COMPLETION

DATE June 19, 1957

|                                                |                            |                                                         |                            |
|------------------------------------------------|----------------------------|---------------------------------------------------------|----------------------------|
| Operator<br><b>El Paso Natural Gas</b>         |                            | Lease<br><b>Storey No. 6-C</b>                          |                            |
| Location<br><b>1103'N, 990'E, Sec. 22-28-9</b> |                            | County<br><b>San Juan</b>                               | State<br><b>New Mexico</b> |
| Formation<br><b>Pictured Cliffs</b>            |                            | Pool<br><b>Aztec</b>                                    |                            |
| Casing Diameter<br><b>7 5/8</b>                | Set At Feet<br><b>2623</b> | Tubing Diameter<br><b>1 1/4</b>                         | Set At Feet<br><b>2475</b> |
| Pay Zone: From<br><b>2450</b>                  | To<br><b>2492</b>          | Total Depth<br><b>4930 - c/o - 4850. Packer at 2614</b> |                            |
| Stimulation Method<br><b>Sand Water Frac.</b>  |                            | Flow Through Casing<br><b>X</b>                         |                            |

|                                        |                                    |                                        |                                                |
|----------------------------------------|------------------------------------|----------------------------------------|------------------------------------------------|
| Choke Size, Inches<br><b>0.75</b>      | Choke Constant, C<br><b>12.365</b> | <b>5 1/2 inch liner - 2555 to 4928</b> |                                                |
| Shut-In Pressure, Casing<br><b>699</b> | PSIG - 12 - PSIA<br><b>711</b>     | Days Shut-In<br><b>7</b>               | Shut-In Pressure, Tubing<br><b>699</b>         |
| Flowing Pressure, P<br><b>224</b>      | PSIG - 12 - PSIA<br><b>236</b>     |                                        | Working Pressure, P <sub>w</sub><br><b>230</b> |
| Temperature, T<br><b>75</b>            | °F - 12 - °F<br><b>.85</b>         |                                        | Gravity<br><b>1.020</b>                        |
|                                        |                                    |                                        | <b>.640</b>                                    |

Starting SIPT (Mesa Verde) - 1008 psig; Final SIPT (Mesa Verde) - 1011 psig

CHOKE VOLUME  $Q = C \times P_1 \times F_1 \times F_2 \times F_3 \times F_4$ 

$$C = 12.365 \times 236 \times .9859 \times .9682 \times 1.020$$

2841

MCF/D

OPEN FLOW  $A_{of} = Q$ 

$$\left( \frac{P_1^2 - P_a^2}{P_1^2 - P_a^2} \right)^n$$

$$A_{of} = \left( \frac{505,521}{446,957} \right)^n$$

$$1.1310^{.85} \times 2841 = 1.1103 \times 2841$$

A<sub>of</sub> 3154

MCF/D

TESTED BY R. A. Ullrich

WITNESSED BY

cc: E. J. Coel, Jr (6)


  
L. D. Galloway

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