

EL PASO NATURAL GAS COMPANY  
OPEN FLOW TEST DATA

DUAL COMPLETION

DATE December 2, 1960

|                                                |                            |                                           |                            |
|------------------------------------------------|----------------------------|-------------------------------------------|----------------------------|
| Operator<br><b>El Paso Natural Gas Company</b> |                            | Lease<br><b>San Juan 27-5 No. 54 (MV)</b> |                            |
| 1700'S, 800'W, 31-27N-5W                       |                            | County<br><b>Rio Arriba</b>               | State<br><b>New Mexico</b> |
| Formation<br><b>Mesa Verde</b>                 |                            | Pool<br><b>Blanco MV</b>                  |                            |
| Casing Diameter<br><b>5-1/2</b>                | Set At Feet<br><b>5543</b> | Tubing Diameter<br><b>2-3/8</b>           | Set At Feet<br><b>5457</b> |
| Pay Zone Feet<br><b>4886</b>                   | To<br><b>5490</b>          | Total Depth<br><b>5550 C/O 5515</b>       | Shut In<br><b>11-25-60</b> |
| Stimulation Method<br><b>Sand/Water Frac.</b>  |                            | Flow Through Casing<br><b>X</b>           |                            |

|                                            |                                            |                                                        |
|--------------------------------------------|--------------------------------------------|--------------------------------------------------------|
| Choke Size, Inches<br><b>.75</b>           | Choke Constant, C<br><b>12.365</b>         | Guiberson "Shorty" Pkr. at 3392                        |
| Shut-In Press. (Casing)<br>(PC) <b>932</b> | Flowing Press. (Casing)<br>(MV) <b>226</b> | Shut-In Press. (Tubing)<br>(MV) <b>1056</b>            |
| Flowing Press. (Tubing)<br>(MV) <b>226</b> | Temperature<br><b>63</b>                   | Working Pressure: P <sub>w</sub><br>(Calc.) <b>472</b> |
|                                            |                                            | Flow Through Casing<br><b>1.023</b>                    |
|                                            |                                            | Gravity<br><b>.650</b>                                 |
|                                            |                                            |                                                        |

Initial SIPT (PC) = 934 psig

Final SIPT (PC) = 930 psig

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

$$Q = (12.365)(238)(.9971)(.9608)(1.023)$$

2884

MCF/D

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

$$Q = \left( \frac{1,140,624}{917,840} \right)^n$$

$$(1.2427)^{.75}(2884) = (1.1772)(2884)$$

At 3392

MCF/D

D. E. Mortenson

Calculated by

W. D. Dawson



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