

# B & R SERVICE COMPANY OPEN FLOW TEST DATA

DATE \_\_\_\_\_

|                                       |                             |                                   |                                 |
|---------------------------------------|-----------------------------|-----------------------------------|---------------------------------|
| Operator<br><b>LONE STAR IND. INC</b> |                             | Lease<br><b>SCHALK 52-6 MV</b>    |                                 |
| Location                              |                             | County<br><b>RIO ARriba</b>       | State<br><b>NEW MEXICO</b>      |
| Formation<br><b>MESA VERDE</b>        |                             | Pool                              |                                 |
| Casing: Diameter<br><b>4 1/2"</b>     | Set At: Feet<br><b>5830</b> | Tubing: Diameter<br><b>2 3/8"</b> | Set At: Feet<br><b>5686</b>     |
| Pay Zone: From<br><b>5358</b>         | To<br><b>5474</b>           | Total Depth:                      | Shut In                         |
| Stimulation Method                    |                             | Flow Through Casing               | Flow Through Tubing<br><b>X</b> |

|                                                                     |                                |                                    |                                        |                                |                               |
|---------------------------------------------------------------------|--------------------------------|------------------------------------|----------------------------------------|--------------------------------|-------------------------------|
| Choke Size, Inches<br><b>.750</b>                                   |                                | Choke Constant: C<br><b>12.365</b> |                                        |                                |                               |
| Shut-In Pressure, Casing, PSIG<br><b>1141</b>                       | + 12 = PSIA<br><b>1153</b>     | Days Shut-In                       | Shut-In Pressure, Tubing<br><b>663</b> | PSIG + 12 = PSIA<br><b>675</b> |                               |
| Flowing Pressure: P<br><b>178</b>                                   | PSIG + 12 = PSIA<br><b>190</b> |                                    | Working Pressure: Pw<br><b>668</b>     | PSIG + 12 = PSIA<br><b>680</b> |                               |
| Temperature:<br>T = <b>68</b> °F      F <sub>r</sub> = <b>.9924</b> |                                | n = <b>.75</b>                     | Fpv (From Tables)<br><b>1.018</b>      | Gravity<br><b>.670</b>         | F <sub>g</sub> = <b>.9463</b> |

$$\text{CHOKE VOLUME} = Q = C \times P_r \times F_r \times F_g \times F_{pv}$$

Q =

= 2246

MCF/D

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

$$Aof = \left( \frac{\quad}{\quad} \right)^n =$$

Aof = 3095 MCF/D

TESTED BY BEAN

WITNESSED BY \_\_\_\_\_

*Brian Bean*