Bivariate Fit of Density By Pressure

Density = 2375 + 0.0486667*Pressure

**Summary of Fit**

R Square Adj = 0.980824
Root Mean Square Error = 19.90877
Mean of Response = 2667
Observations (or Sum Wgts) = 15

**Analysis of Variance**

<table>
<thead>
<tr>
<th>Source</th>
<th>DF</th>
<th>Sum of Squares</th>
<th>Mean Square</th>
<th>F Ratio</th>
<th>Prob &gt; F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
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<td>284213.33</td>
<td>284213</td>
<td>717.0604</td>
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<tr>
<td>Error</td>
<td>13</td>
<td>5152.67</td>
<td>396</td>
<td>Prob &gt; F</td>
<td></td>
</tr>
<tr>
<td>C. Total</td>
<td>14</td>
<td>289366.00</td>
<td>&lt;.0001 *</td>
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<td></td>
</tr>
</tbody>
</table>

**Parameter Estimates**

| Term       | Estimate | Std Error | t Ratio | Prob>|t| |
|------------|----------|-----------|---------|-----|---|
| Intercept  | 2375     | 12.05536  | 197.01  | <.0001 * |
| Pressure   | 0.0486667| 0.001817  | 26.78   | <.0001 * |

**Diagnostics Plots**

Residual by Predicted Plot
Bivariate Fit of Density By Pressure

Linear Fit

Diagnostics Plots

Residual by Predicted Plot

Actual by Predicted Plot

Residual by Row Plot

Residual Normal Quantile Plot
Bivariate Fit of Density By Pressure

Linear Fit

Diagnostics Plots

Residual Normal Quantile Plot

![Residual Normal Quantile Plot](image-url)