5" OMNI - 12 SPF - RDX - SUPER HOLE (IN 7" CASING)
### SECTION 1 - CONCRETE TARGET

<table>
<thead>
<tr>
<th>Shot No.</th>
<th>No. 21</th>
<th>No. 22</th>
<th>No. 23</th>
<th>No. 24</th>
<th>No. 25</th>
<th>No. 26</th>
<th>No. 27</th>
<th>No. 28</th>
<th>No. 29</th>
<th>No. 30</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clearance, in.</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
</tr>
<tr>
<td>Casing Hole Diameter, Short Axis, in.</td>
<td>1.00</td>
<td>0.94</td>
<td>0.90</td>
<td>0.91</td>
<td>0.77</td>
<td>0.87</td>
<td>0.97</td>
<td>1.01</td>
<td>0.93</td>
<td>0.76</td>
</tr>
<tr>
<td>Casing Hole Diameter, Long Axis, in.</td>
<td>1.01</td>
<td>0.94</td>
<td>0.90</td>
<td>0.95</td>
<td>0.81</td>
<td>0.92</td>
<td>0.98</td>
<td>1.01</td>
<td>0.97</td>
<td>0.90</td>
</tr>
<tr>
<td>Average Casing Hole Diameter, in.</td>
<td>1.01</td>
<td>0.94</td>
<td>0.90</td>
<td>0.93</td>
<td>0.79</td>
<td>0.90</td>
<td>0.98</td>
<td>1.01</td>
<td>0.95</td>
<td>0.83</td>
</tr>
<tr>
<td>Total Depth, in.</td>
<td>6.25</td>
<td>6.45</td>
<td>6.45</td>
<td>6.15</td>
<td>6.95</td>
<td>7.05</td>
<td>7.05</td>
<td>6.95</td>
<td>7.95</td>
<td>6.45</td>
</tr>
<tr>
<td>Burr Height, in.</td>
<td>0.16</td>
<td>0.10</td>
<td>0.12</td>
<td>0.15</td>
<td>0.09</td>
<td>0.17</td>
<td>0.07</td>
<td>0.11</td>
<td>0.15</td>
<td>0.13</td>
</tr>
</tbody>
</table>

### SECTION 2 - BEREA SANDSTONE CORE TARGET

<table>
<thead>
<tr>
<th>Shot No.</th>
<th>No. 1</th>
<th>No. 2</th>
<th>No. 3</th>
<th>No. 4</th>
<th>No. 5</th>
<th>No. 6</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faceplate Hole Diameter, Short Axis, in.</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
<td>0.547</td>
</tr>
<tr>
<td>Faceplate Hole Diameter, Long Axis, in.</td>
<td>0.73</td>
<td>0.85</td>
<td>0.99</td>
<td>0.90</td>
<td>0.77</td>
<td>0.90</td>
<td>0.87</td>
</tr>
<tr>
<td>Average Faceplate Hole Diameter, in.</td>
<td>0.74</td>
<td>0.87</td>
<td>1.02</td>
<td>0.92</td>
<td>0.80</td>
<td>0.95</td>
<td>0.88</td>
</tr>
<tr>
<td>Total Depth, in.</td>
<td>6.95</td>
<td>6.95</td>
<td>6.95</td>
<td>7.15</td>
<td>6.85</td>
<td>6.85</td>
<td>7.05</td>
</tr>
<tr>
<td>Burr Height, in.</td>
<td>0.15</td>
<td>0.13</td>
<td>0.24</td>
<td>0.17</td>
<td>0.14</td>
<td>0.14</td>
<td>0.13</td>
</tr>
</tbody>
</table>

### CERTIFICATION

Type of Certification: [x] Self  [ ] Third Party

I certify that these tests were made according to the procedures as outlined in API RP 43: Recommended Practices for Evaluation of Well Perforators, Fifth Edition, January 1991. All of the equipment used in these tests, such as the guns, jet charges, detonator cord, etc., was standard with our company for use in the gun being tested, and was not changed in any manner for the test. Furthermore, the equipment was chosen at random from stock and therefore will be substantially the same as the equipment which would be furnished to perforate a well for any operator.

CERTIFIED BY

RESEARCH & ENGINEERING MANAGER

(Company Officer)

(Title)

JET RESEARCH CENTER

(Company)

8432 S. IH35W, ALVARADO, TX, 76009

(Address)

X RECERTIFIED

2/1/95

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