Customer: _____

Well Name & No.: _____

Date: _____

# Net Bypass Rate (bpm) Past 3.600 in. / (91.44 mm ) OD Plug in 4.500 in. / (114.3 mm) 11.60 lb/ft / (17.26 kg/m) Casing

**Blue = input**

**Black = output**

Select from list:

| | |
|---|---|
| Plug OD | 3.600in_91.44mm |
| Casing OD | 4.500in_114.30mm |
| Casing Weight | 11.60lb/ft_17.26kg/m |

| | | |
|---|---|---|
| Casing ID | 101.60 mm | 4.00 in |
| Casing Area | 8107.31 mm² | 12.57 in² |
| Plug Area | 6566.93 mm² | 10.18 in² |
| Bypass Area | 1540.38 mm² | 2.39 in² |

**Line Speed**

| (ft/min)→ | 0 | 20 | 40 | 60 | 80 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 380 | 400 | 420 | 440 | 460 | 480 | 500 | 520 | 540 | 560 | 580 | 600 | 620 | 640 | 660 | 680 | 700 | 720 | 740 | 760 | 780 | 800 | 820 | 840 | 860 | 880 | 900 | 920 | 940 | 960 | 980 | 1000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (m/min)→ | 0 | 6 | 12 | 18 | 24 | 30 | 37 | 43 | 49 | 55 | 61 | 67 | 73 | 79 | 85 | 91 | 98 | 104 | 110 | 116 | 122 | 128 | 134 | 140 | 146 | 152 | 158 | 165 | 171 | 177 | 183 | 189 | 195 | 201 | 207 | 213 | 219 | 226 | 232 | 238 | 244 | 250 | 256 | 262 | 268 | 274 | 280 | 287 | 293 | 299 | 305 |

**Pump Rate**

| bpm ↓ | m³/min ↓ |
|---|---|
| 1 | 0.2 |
| 2 | 0.3 |
| 3 | 0.5 |
| 4 | 0.6 |
| 5 | 0.8 |
| 6 | 1.0 |
| 7 | 1.1 |
| 8 | 1.3 |
| 9 | 1.4 |
| 10 | 1.6 |
| 11 | 1.7 |
| 12 | 1.9 |
| 13 | 2.1 |
| 14 | 2.2 |
| 15 | 2.4 |
| 16 | 2.5 |
| 17 | 2.7 |
| 18 | 2.9 |
| 19 | 3.0 |
| 20 | 3.2 |
| 21 | 3.3 |
| 22 | 3.5 |
| 23 | 3.7 |
| 24 | 3.8 |
| 25 | 4.0 |
| 26 | 4.1 |
| 27 | 4.3 |
| 28 | 4.5 |
| 29 | 4.6 |
| 30 | 4.8 |

REPEAT PRECISION