**Kelly - 20 kip micropile proof test**

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|---|---|---|---|---|---|---|---|
| **Micropile:** | | PT #5 | | | **Test Date:** | 02/23/23 | **No. of Piles:** | 1 |
| **Starting Free Length:** | 25.00 | ft | 33 | in | **Design Load:** | 20 kip | **Modulus of Elasticity:** | 29000 kip/in2 |
| **Starting Bond Length:** | 10.00 | ft | 120 | in | | | **Bar Diameter:** T30/111 | 1.180 in |
| **Below Ground Free Length:** | 20 | ft | 240 | in | **Max Test Load (160% DL):** | 32 kip | **Bar Area:** | 0.66 in2 |
| **Above Ground Free Length:** | 5.00 | ft | 60 | in | | | **G.U.T.S per Bar:** | kip |
| **Total Length:** | 35.00 | ft | 420 | in | | | |

**Theoretical Elongation (calculate at max test load):** 0.055 inches    **Jack-Gauge Factor:** 0.01096722 kip/psi

**Load Cell Serial Number:** -

**Ram ID**    **Load Cell Zero reading (avg.):** -

**Pump ID**    **Load Cell Scale Factor:** -

**Gauge ID**    **Load Cell Offset:** -

**Ref. Gauge**

| % Design Load (%) | Holding Time (min) | Spec. Load (kips) | Calc. Jack Press. (psi) | Time of Reading (24h) | Observed Jack Press. (psi) | Dial Gauge G1 (in) | Dial Gauge G2 (in) | Correct. Avg. (in) | Elastic Movement (theoretical) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 5% | 2.5 | 1.0 | 214 | 8:19 | 238 | 0.0000 | 0.0000 | 0.0000 | 0.002 | alignment load |
| 15% | 2.5 | 3.0 | 374 | 8:22 | 384 | 0.0030 | 0.0090 | 0.0060 | 0.005 | |
| 30% | 2.5 | 6.0 | 614 | 8:25 | 617 | 0.0110 | 0.0240 | 0.0175 | 0.010 | |
| 45% | 2.5 | 9.0 | 854 | 8:28 | 860 | 0.0220 | 0.0400 | 0.0310 | 0.015 | |
| 60% | 2.5 | 12.0 | 1094 | 8:31 | 1098 | 0.0350 | 0.0540 | 0.0445 | 0.021 | |
| 75% | 2.5 | 15.0 | 1334 | 8:34 | 1336 | 0.0560 | 0.0760 | 0.0660 | 0.026 | |
| 90% | 2.5 | 18.0 | 1574 | 8:36 | 1578 | 0.0820 | 0.1050 | 0.0935 | 0.031 | |
| 100% | 2.5 | 20.0 | 1734 | 8:39 | 1740 | 0.0990 | 0.1220 | 0.1105 | 0.034 | |
| 115% | 2.5 | 23.0 | 1974 | 8:42 | 1980 | 0.1260 | 0.1490 | 0.1375 | 0.040 | |
| 130% | 0 | 26.0 | 2214 | 8:44 | 2219 | 0.1850 | 0.1750 | 0.1800 | 0.045 | |
| 130% | 1 | 26.0 | 2214 | 8:45 | 2200 | 0.1600 | 0.1780 | 0.1690 | 0.045 | |
| 130% | 2 | 26.0 | 2214 | 8:46 | 2225 | 0.1610 | 0.1790 | 0.1700 | 0.045 | |
| 130% | 3 | 26.0 | 2214 | 8:47 | 2215 | 0.1620 | 0.1800 | 0.1710 | 0.045 | |
| 130% | 4 | 26.0 | 2214 | 8:48 | 2214 | 0.1630 | 0.1810 | 0.1720 | 0.045 | |
| 130% | 5 | 26.0 | 2214 | 8:49 | 2216 | 0.1650 | 0.1820 | 0.1735 | 0.045 | |
| 130% | 6 | 26.0 | 2214 | 8:50 | 2223 | 0.1650 | 0.1820 | 0.1735 | 0.045 | |
| 130% | 10 | 26.0 | 2214 | 8:54 | 2218 | 0.1700 | 0.1880 | 0.1790 | 0.045 | -0.001 Creep |
| 145% | 2.5 | 29.0 | 2454 | 8:57 | 2455 | 0.1990 | 0.2150 | 0.2070 | 0.050 | |
| 160% | 2.5 | 32.0 | 2694 | 9:00 | 2698 | 0.2360 | 0.2510 | 0.2435 | 0.055 | |
| 130% | 4 | 26.0 | 2214 | 9:05 | 2220 | 0.2140 | 0.2330 | 0.2235 | 0.045 | |
| 100% | 4 | 20.0 | 1734 | 9:09 | 1738 | 0.1860 | 0.2010 | 0.1935 | 0.034 | |
| 75% | 4 | 15.0 | 1334 | 9:14 | 1334 | 0.1600 | 0.1750 | 0.1675 | 0.026 | |
| 50% | 4 | 10.0 | 934 | 9:19 | 934 | 0.1290 | 0.1440 | 0.1365 | 0.017 | |
| 25% | 4 | 5.0 | 534 | 9:23 | 535 | 0.0860 | 0.0960 | 0.0910 | 0.009 | |
| 5% | 4 | 1.0 | 214 | 9:28 | 220 | 0.0640 | 0.0590 | 0.0615 | 0.002 | 0.182 Elastic Movement |