Kelly - 20 kip micropile proof test

Micropile:			PT #4				**Test Date:**			02/21/23		**No. of Piles:**			1	
Starting Free Length:			40.00	ft	33	in	**Design Load:**			20	kip	**Modulus of Elasticity:**			29000	kip/in2
Starting Bond Length:			10.00	ft	120	in						**Bar Diameter:**		T40/20	1.570	in
Below Ground Free Length:			35	ft	420	in	**Max Test Load (160% DL):**			32	kip	**Bar Area:**			1.13	in2
Above Ground Free Length:			5.00	ft	60	in						**G.U.T.S per Bar:**				kip
Total Length:			50.00	ft	600	in										
Theoretical Elongation (calculate at max test load):					0.032	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	2:00	214	0.0000	0.0000	0.0000	0.001	alignment load
15%	2.5	3.0	374	2:02	375	0.0040	0.0100	0.0070	0.003	
30%	2.5	6.0	614	2:05	620	0.0180	0.0260	0.0220	0.006	
45%	2.5	9.0	854	2:07	856	0.0300	0.0420	0.0360	0.009	
60%	2.5	12.0	1094	2:10	1099	0.0420	0.0550	0.0485	0.012	
75%	2.5	15.0	1334	2:13	1334	0.0540	0.0690	0.0615	0.015	
90%	2.5	18.0	1574	2:15	1574	0.0710	0.0860	0.0785	0.018	
100%	2.5	20.0	1734	2:18	1726	0.0850	0.0990	0.0920	0.020	
115%	2.5	23.0	1974	2:21	1970	0.1090	0.1220	0.1155	0.023	
130%	0	26.0	2214	2:22	2200	0.1350	0.1470	0.1410	0.026	
130%	1	26.0	2214	2:23	2210	0.1360	0.1480	0.1420	0.026	
130%	2	26.0	2214	2:24	2210	0.1350	0.1480	0.1415	0.026	
130%	3	26.0	2214	2:25	2215	0.1350	0.1480	0.1415	0.026	
130%	4	26.0	2214	2:26	2215	0.1350	0.1480	0.1415	0.026	
130%	5	26.0	2214	2:27	2219	0.1360	0.1480	0.1420	0.026	
130%	6	26.0	2214	2:28	2217	0.1370	0.1490	0.1430	0.026	
130%	10	26.0	2214	2:32	2215	0.1370	0.1490	0.1430	0.026	0.002 Creep
145%	2.5	29.0	2454	2:36	2450	0.1670	0.1770	0.1720	0.029	
160%	2.5	32.0	2694	2:39	2700	0.2050	0.2150	0.2100	0.032	
130%	4	26.0	2214	2:43	2210	0.1760	0.1870	0.1815	0.026	
100%	4	20.0	1734	2:47	1730	0.1510	0.1600	0.1555	0.020	
75%	4	15.0	1334	2:51	1330	0.1200	0.1310	0.1255	0.015	
50%	4	10.0	934	2:55	925	0.0950	0.1010	0.0980	0.010	
25%	4	5.0	534	2:59	535	0.0560	0.0590	0.0575	0.005	
5%	4	1.0	214	3:03	214	0.0250	0.0210	0.0230	0.001	0.187 Elastic Movement

*Wind picked up at "time of reading" 2:32