Kelly - 20 kip micropile proof test

Micropile:		PT #1			Test Date:		02/18/23	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: T/40/20	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	9:30	213	0.0000	0.0000	0.0000	0.001	alignment load	
15%	2.5	3.0	374	9:33	371	0.0090	0.0120	0.0105	0.003		
30%	2.5	6.0	614	9:35	614	0.0250	0.0250	0.0250	0.006		
45%	2.5	9.0	854	9:38	850	0.0410	0.0360	0.0385	0.009		
60%	2.5	12.0	1094	9:41	1090	0.0540	0.0480	0.0510	0.012		
75%	2.5	15.0	1334	9:43	1331	0.0690	0.0620	0.0655	0.015		
90%	2.5	18.0	1574	9:46	1574	0.0890	0.0810	0.0850	0.018		
100%	2.5	20.0	1734	9:49	1735	0.0950	0.0880	0.0915	0.020		
115%	2.5	23.0	1974	9:51	1970	0.1140	0.1100	0.1120	0.023		
130%	0	26.0	2214	9:53	2220	0.1400	0.1340	0.1370	0.026		
130%	1	26.0	2214	9:54	2214	0.1400	0.1340	0.1370	0.026		
130%	2	26.0	2214	9:55	2210	0.1410	0.1350	0.1380	0.026		
130%	3	26.0	2214	9:56	2219	0.1410	0.1350	0.1380	0.026		
130%	4	26.0	2214	9:57	2220	0.1410	0.1350	0.1380	0.026		
130%	5	26.0	2214	9:58	2218	0.1410	0.1350	0.1380	0.026		
130%	6	26.0	2214	9:59	2213	0.1400	0.1350	0.1375	0.026		
130%	10	26.0	2214	10:03	2212	0.1410	0.1370	0.1390	0.026	0.002	Creep
145%	2.5	29.0	2454	10:06	2454	0.1190	0.1260	0.1225	0.029		
160%	2.5	32.0	2694	10:09	2694	0.1500	0.1580	0.1540	0.032		
130%	4	26.0	2214	10:13	2200	0.1350	0.1410	0.1380	0.026		
100%	4	20.0	1734	10:17	1730	0.1130	0.1190	0.1160	0.020		
75%	4	15.0	1334	10:21	1336	0.0800	0.0860	0.0830	0.015		
50%	4	10.0	934	10:24	940	0.0570	0.0610	0.0590	0.010		
25%	4	5.0	534	10:28	540	0.0240	0.0340	0.0290	0.005		
5%	4	1.0	214	10:32	214	-0.0110	0.0130	0.0010	0.001	0.153	Elastic Movement