

Field Testing Results

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Micropile Geometry

Weak
Grout

Length

4.3 m 2 kPa, 15 kPa or 50 MPa
14 ft

50 MPa
Grout

Length

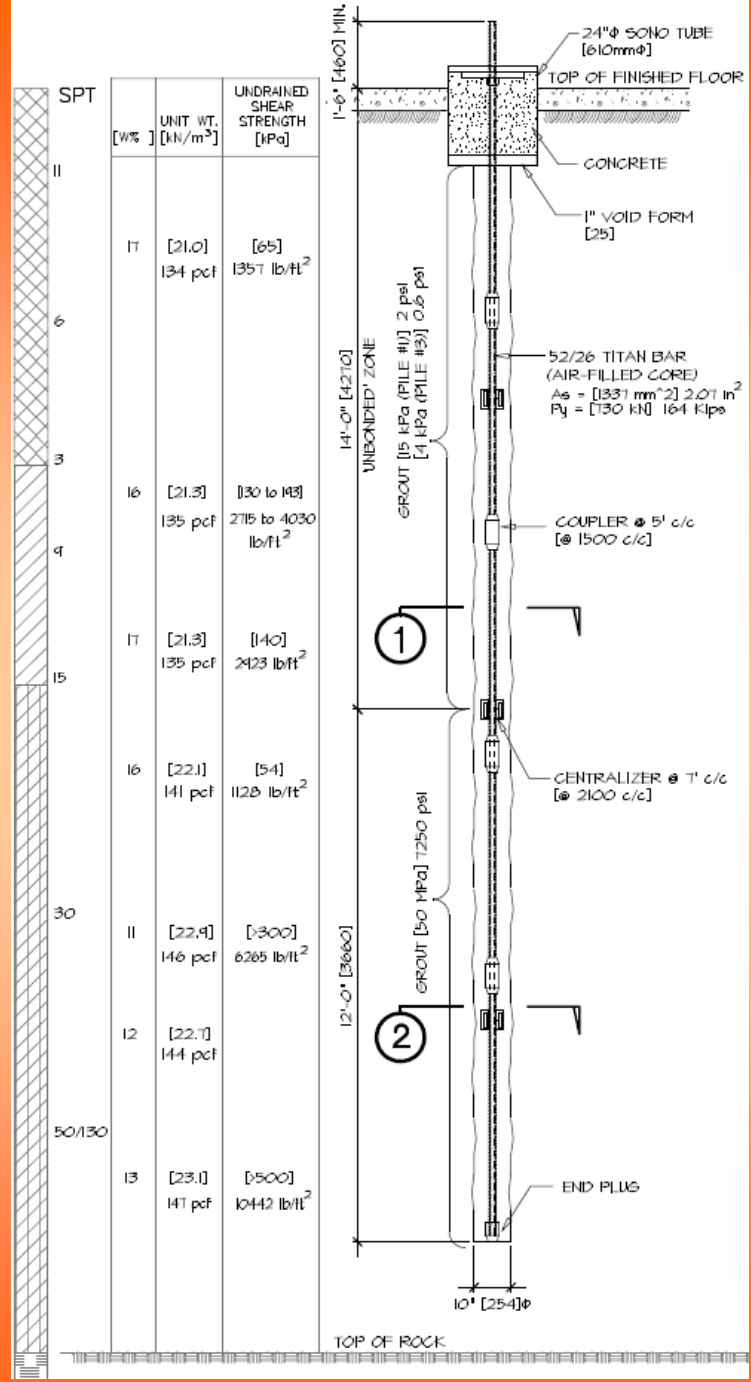
3.6 m
12 ft

Fill

Clayey
Silt

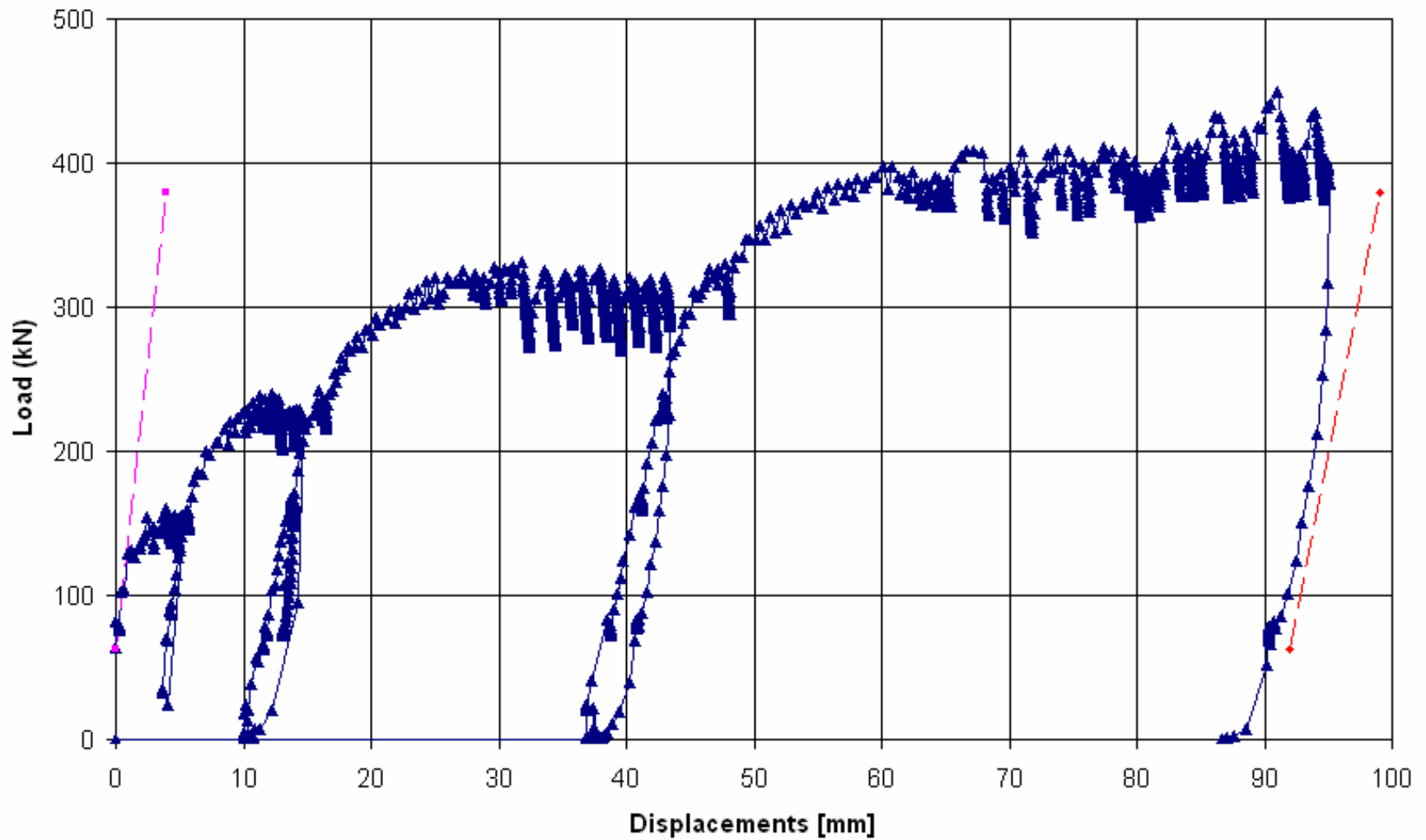
Clayey
Silt
Till

Shale

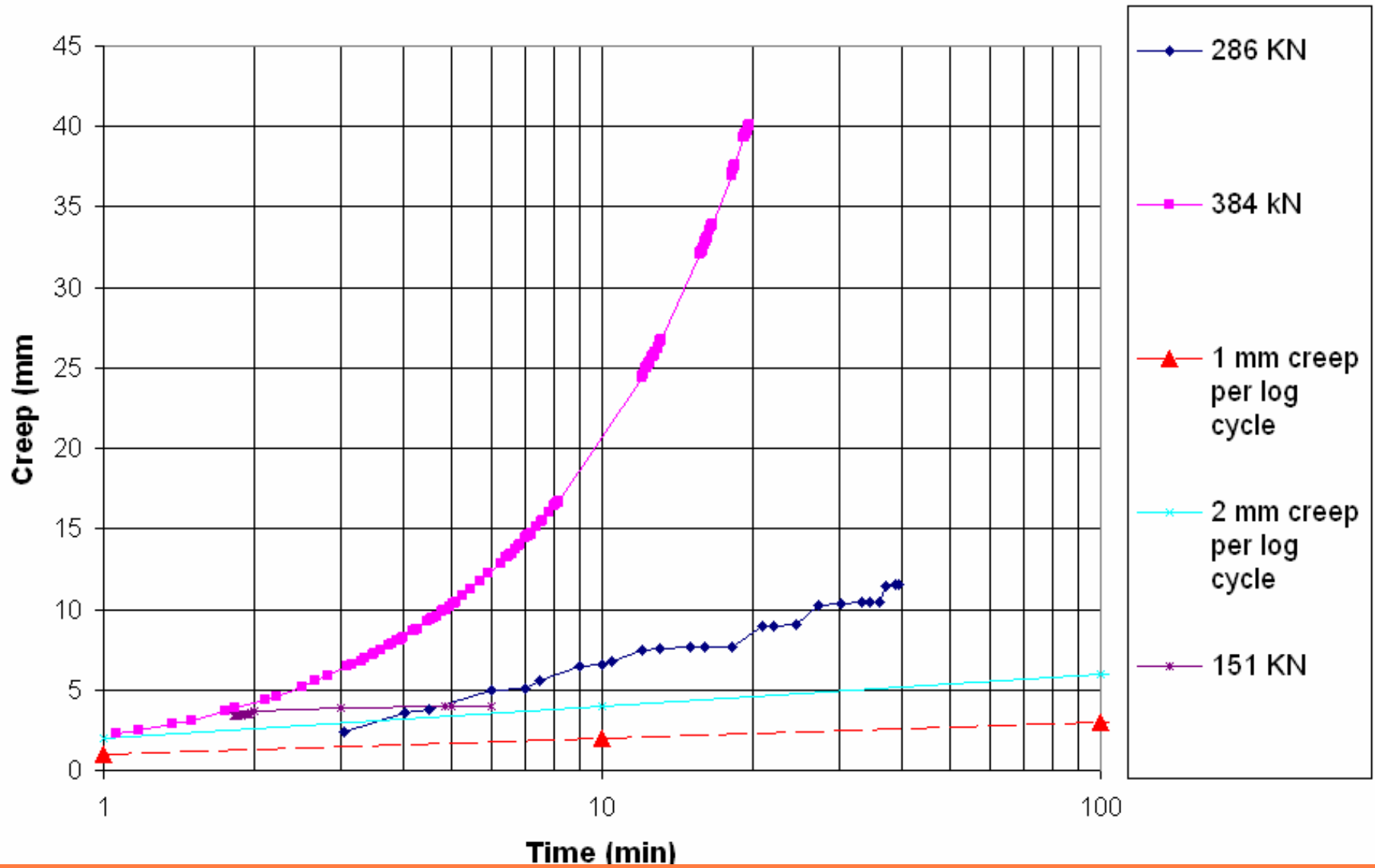


How will
each
of the Micropiles
perform under static
compression load?

Compression Micropile - Top 15 kPa



Creep vs. Time in Log Cycle - Top 15 kPa

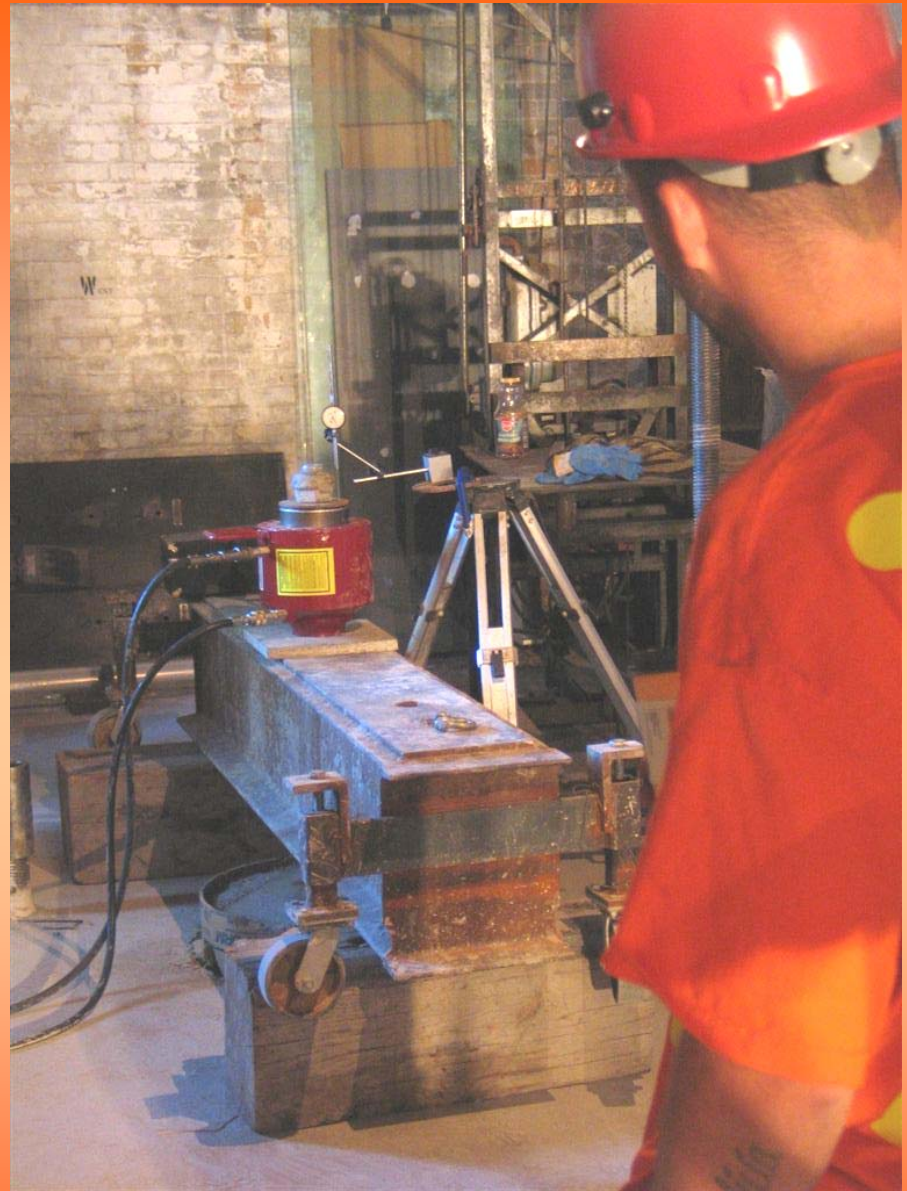


Maximum Compression
Load

380 kN (85 kips)

Maximum Tension
Load

160 kN (36 kips)

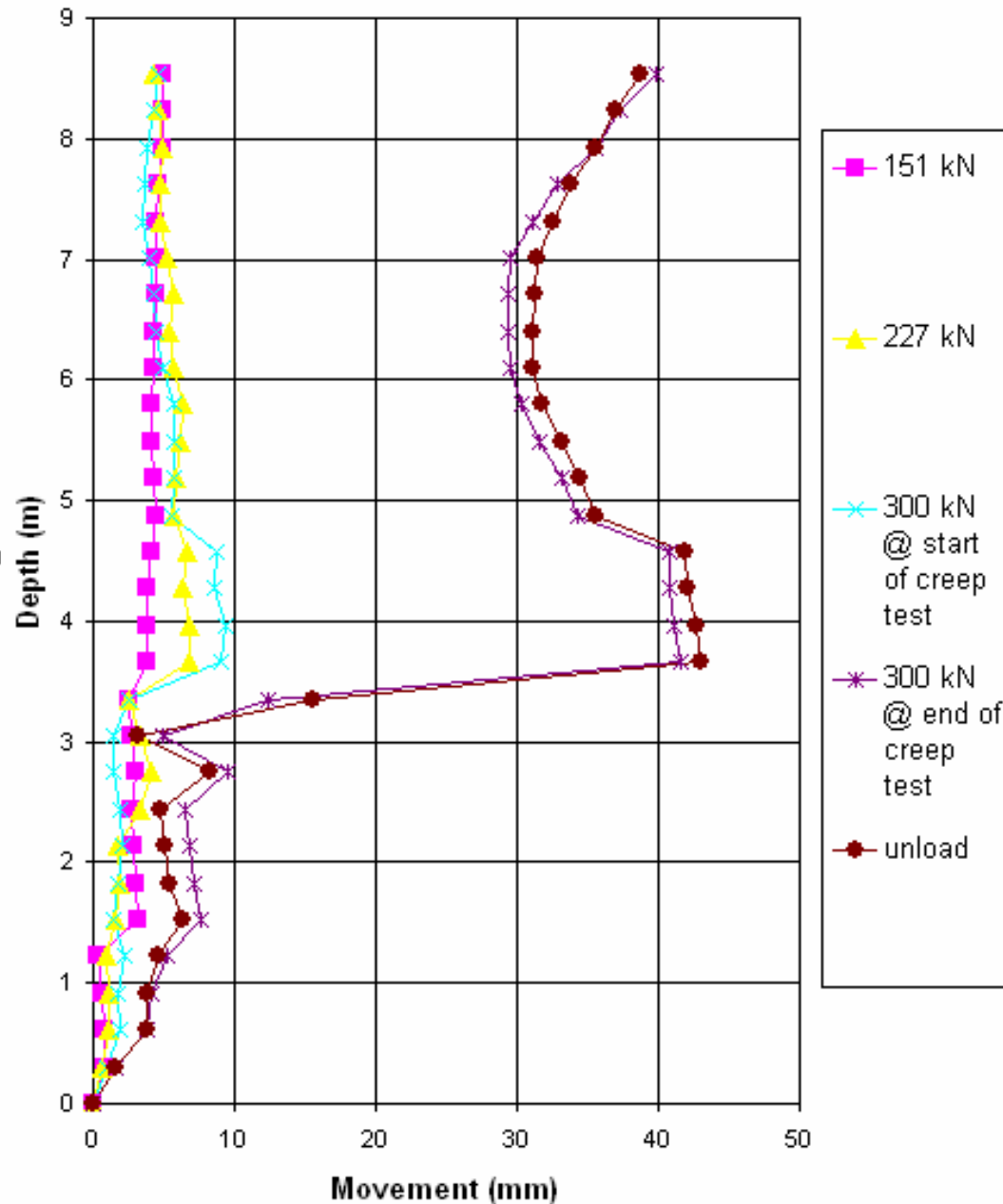


Array and the Bar



Lateral Movement

Instrument on its
Own weight

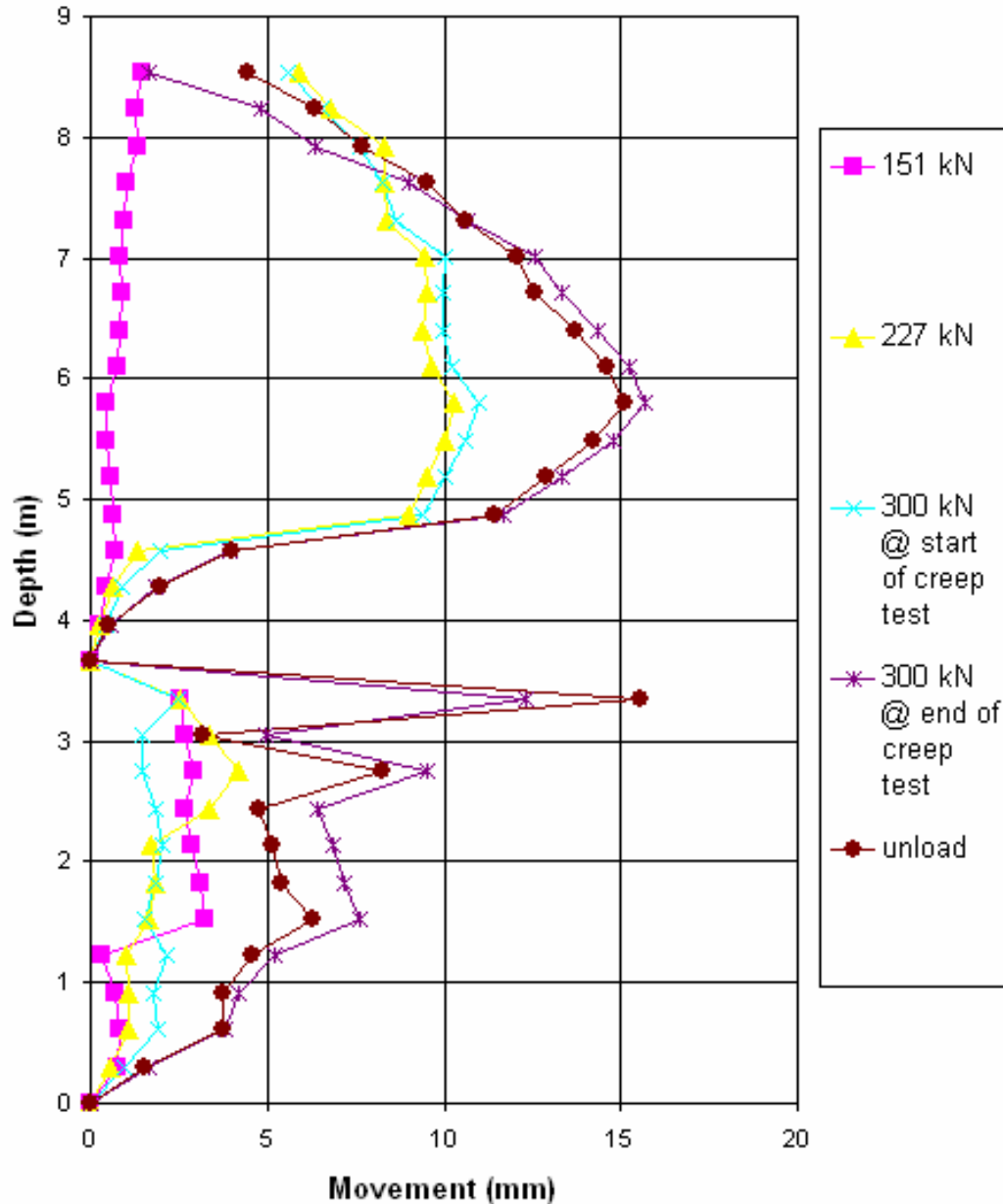


15 kPa
Grout
Length
4.3 m
14 ft

50 MPa
Grout
Length
3.6 m
12 ft

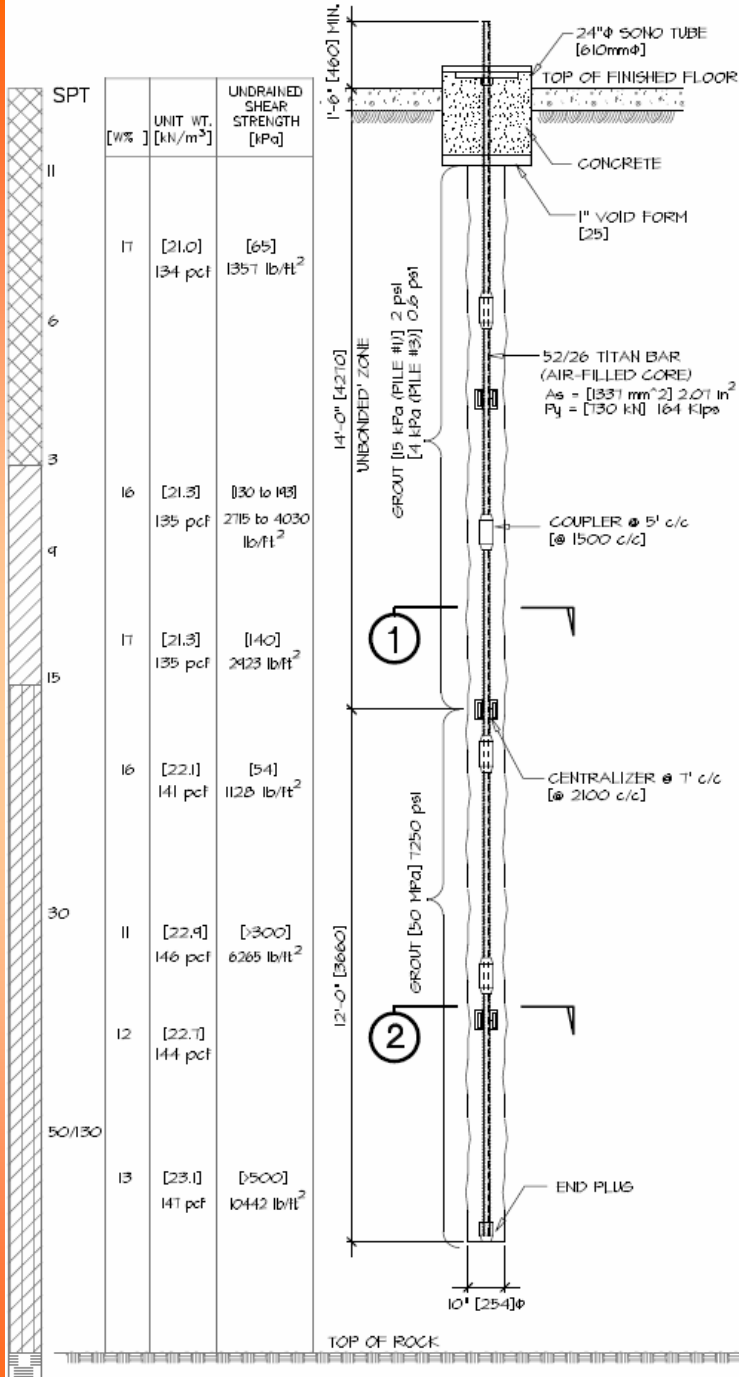
15 kPa
Grout
Length
4.3 m
14 ft

50 MPa
Length
3.6 m
12 ft



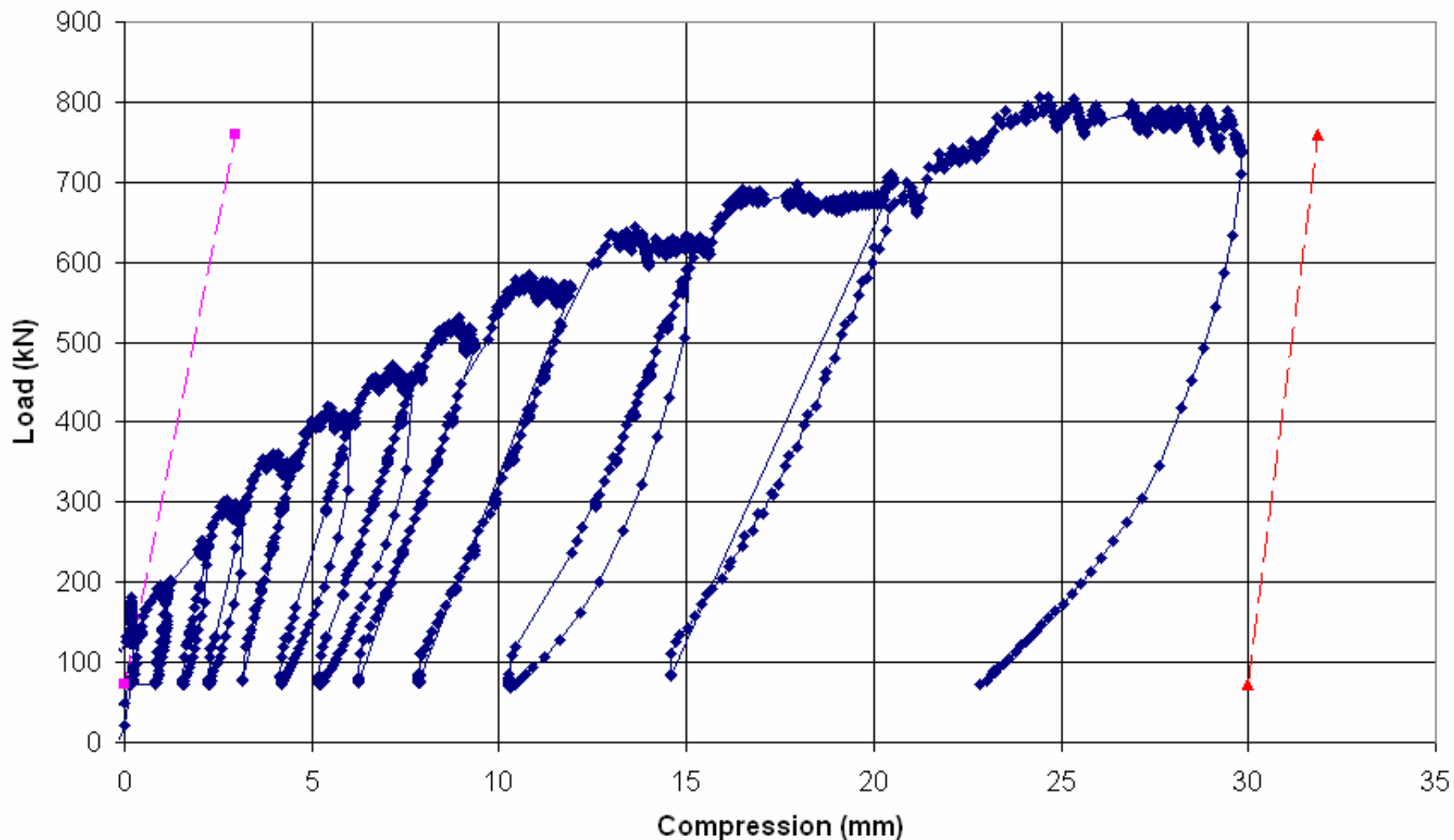
Corrected Lateral Movement

Micropile Geometry

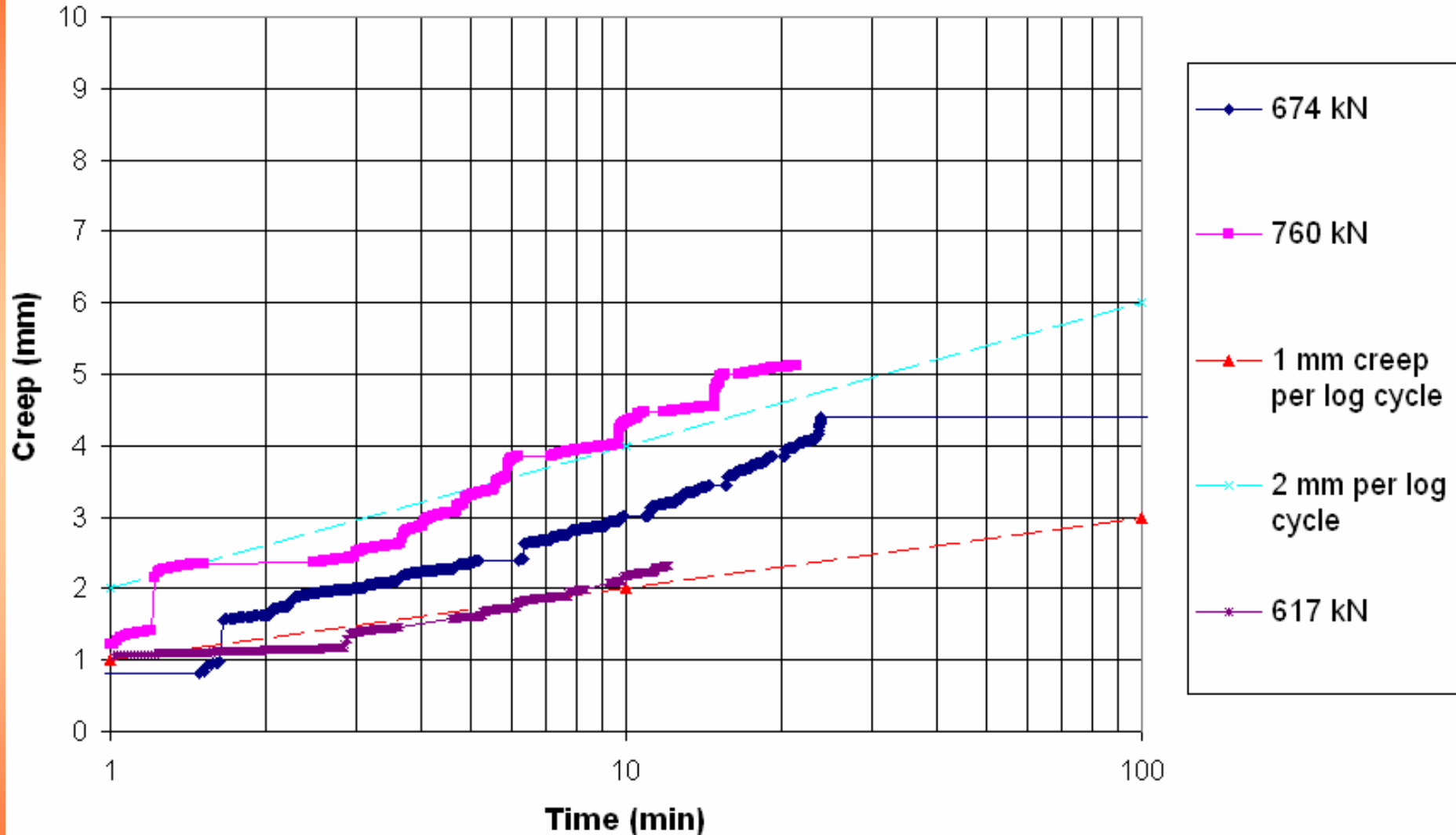


50 MPa
 Grout
 Length
 7.9 m
 16 ft

Compression Micropile - Top 50 MPa

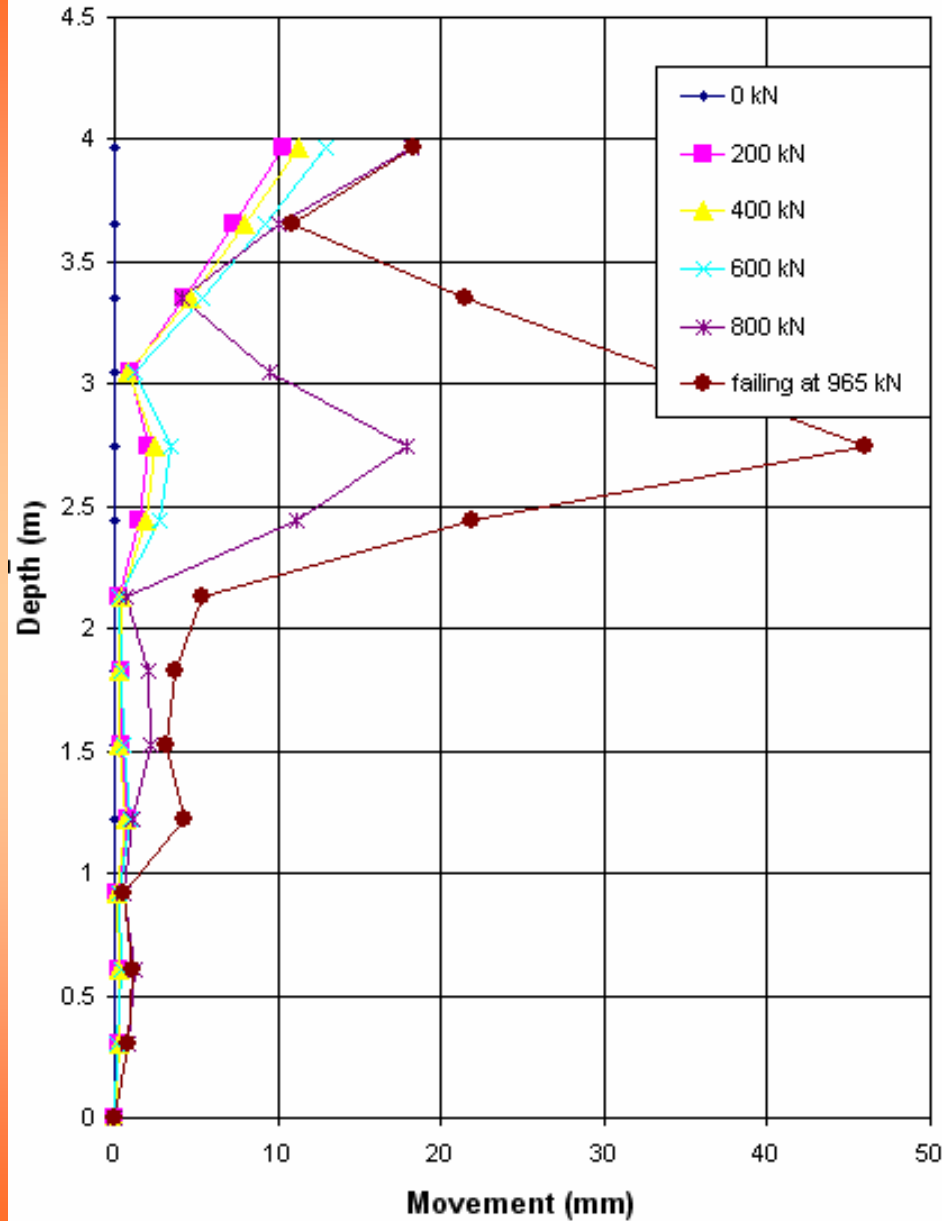


Creep vs. Time in Log Cycle

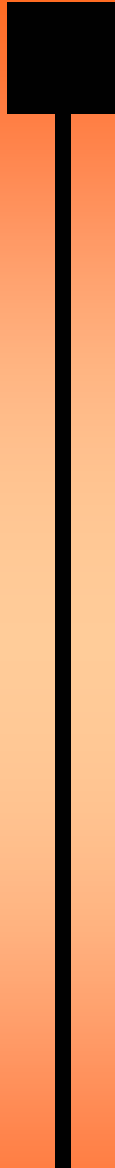
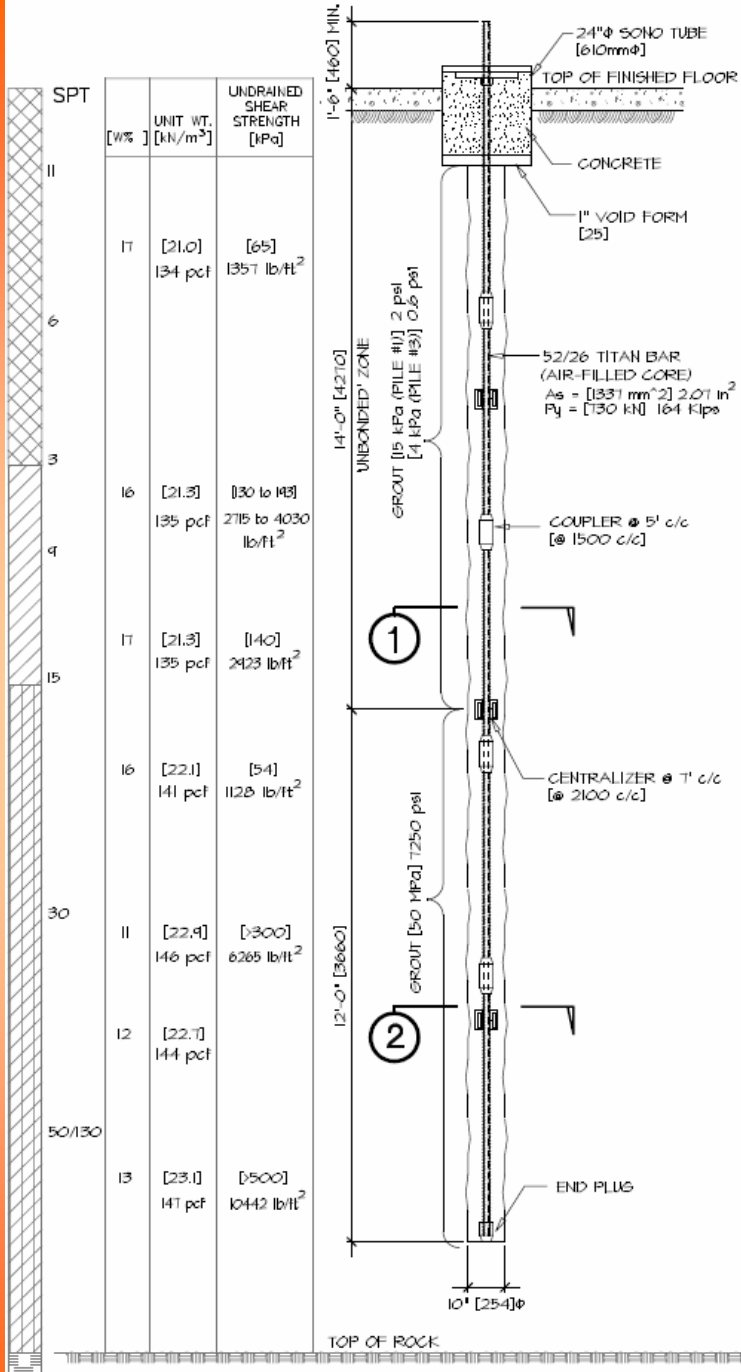


50 MPa
Grout
Length

Lateral Movement



Lateral Movement



Micropile Geometry

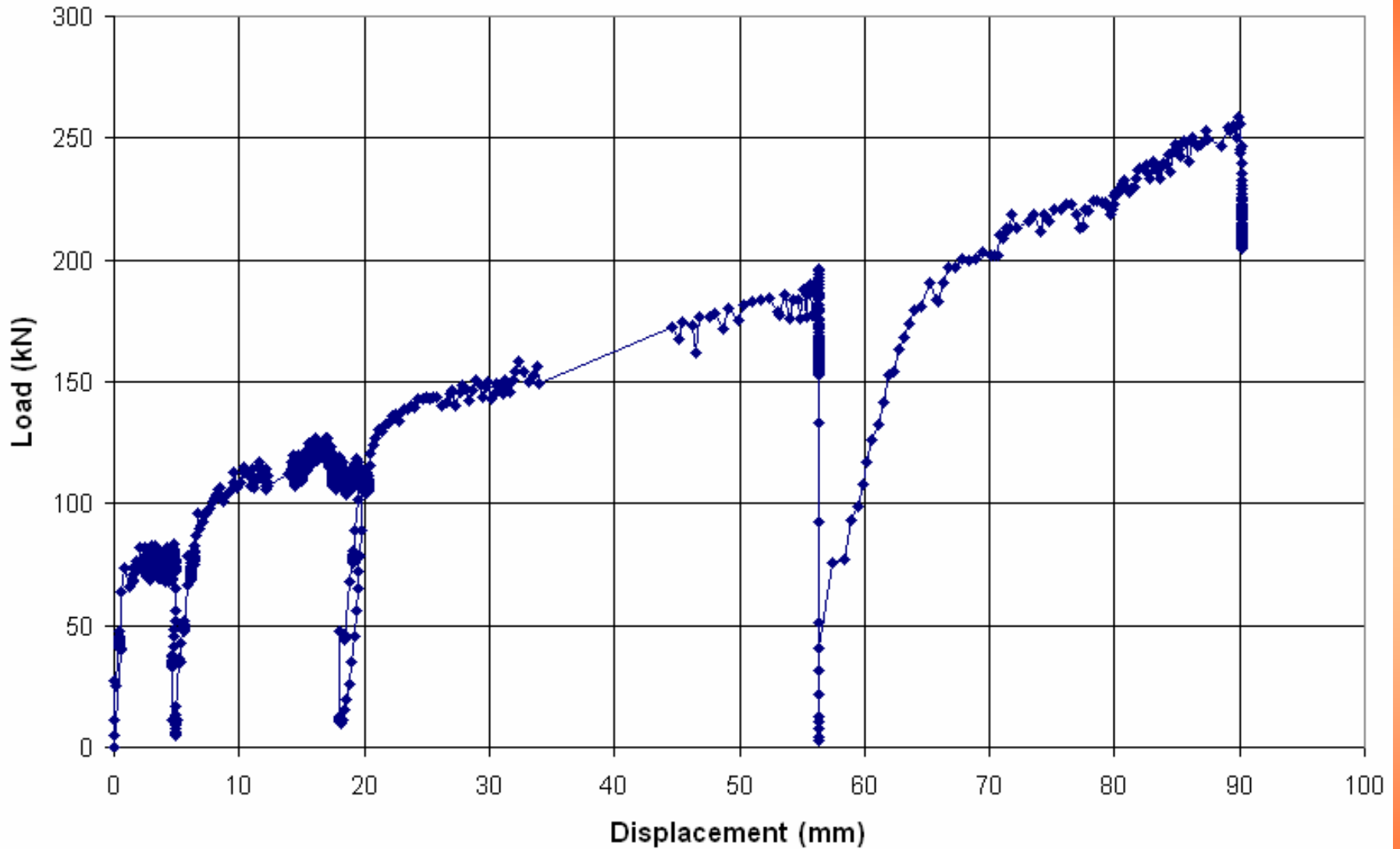
Unbonded Length
4.3 m
14 ft

2 kPa

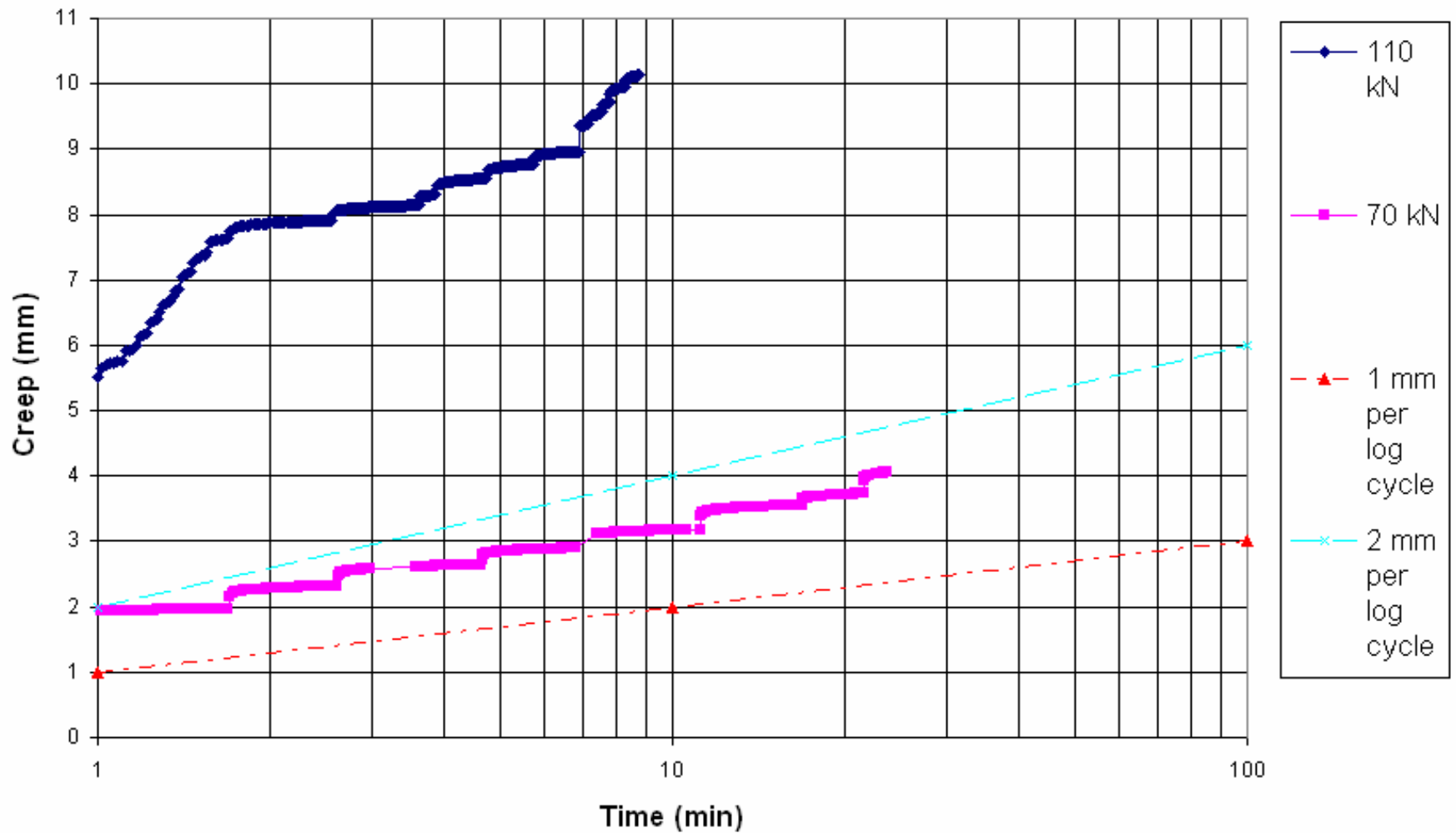
Bonded Length
3.6 m
12 ft

50 MPa

Compression Micropile - 2 kPa

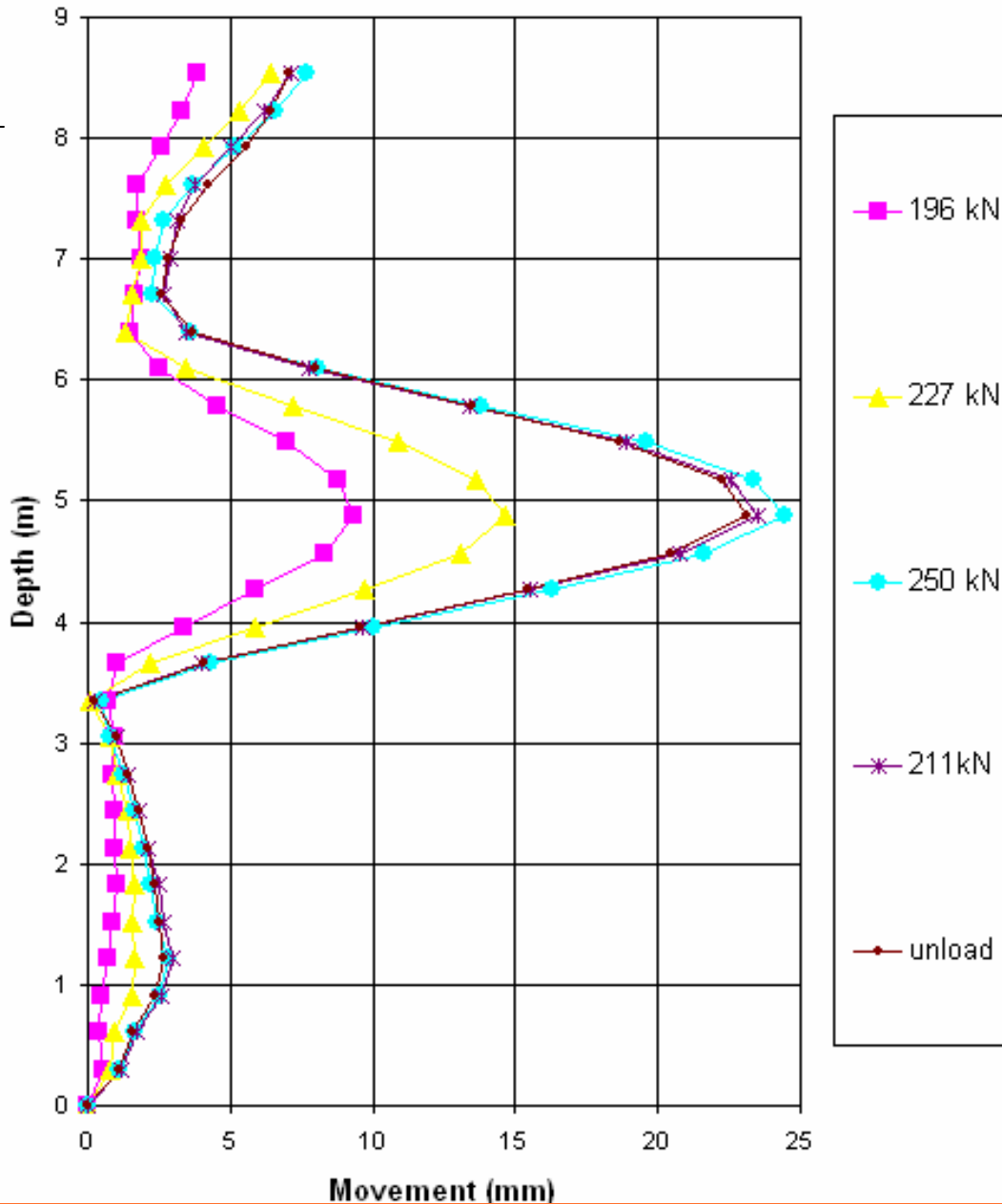


Creep Plot - 2 kPa



2 kPa
Grout
Length
4.3 m
14 ft

50 MPa
Grout
Length
3.6 m
12 ft



Lateral Movement

Instrument was Hanging

What is your interpretation
of these results?