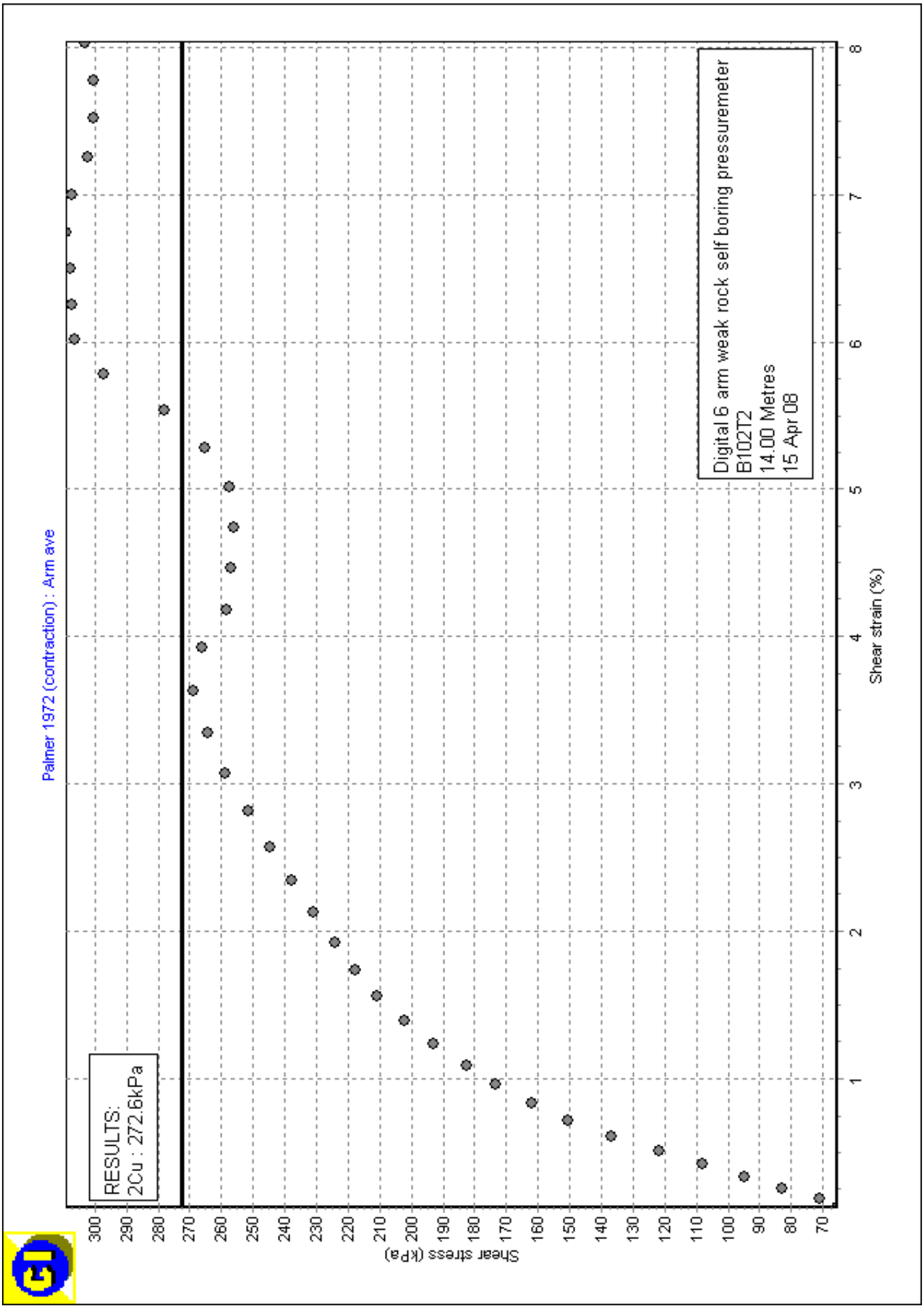
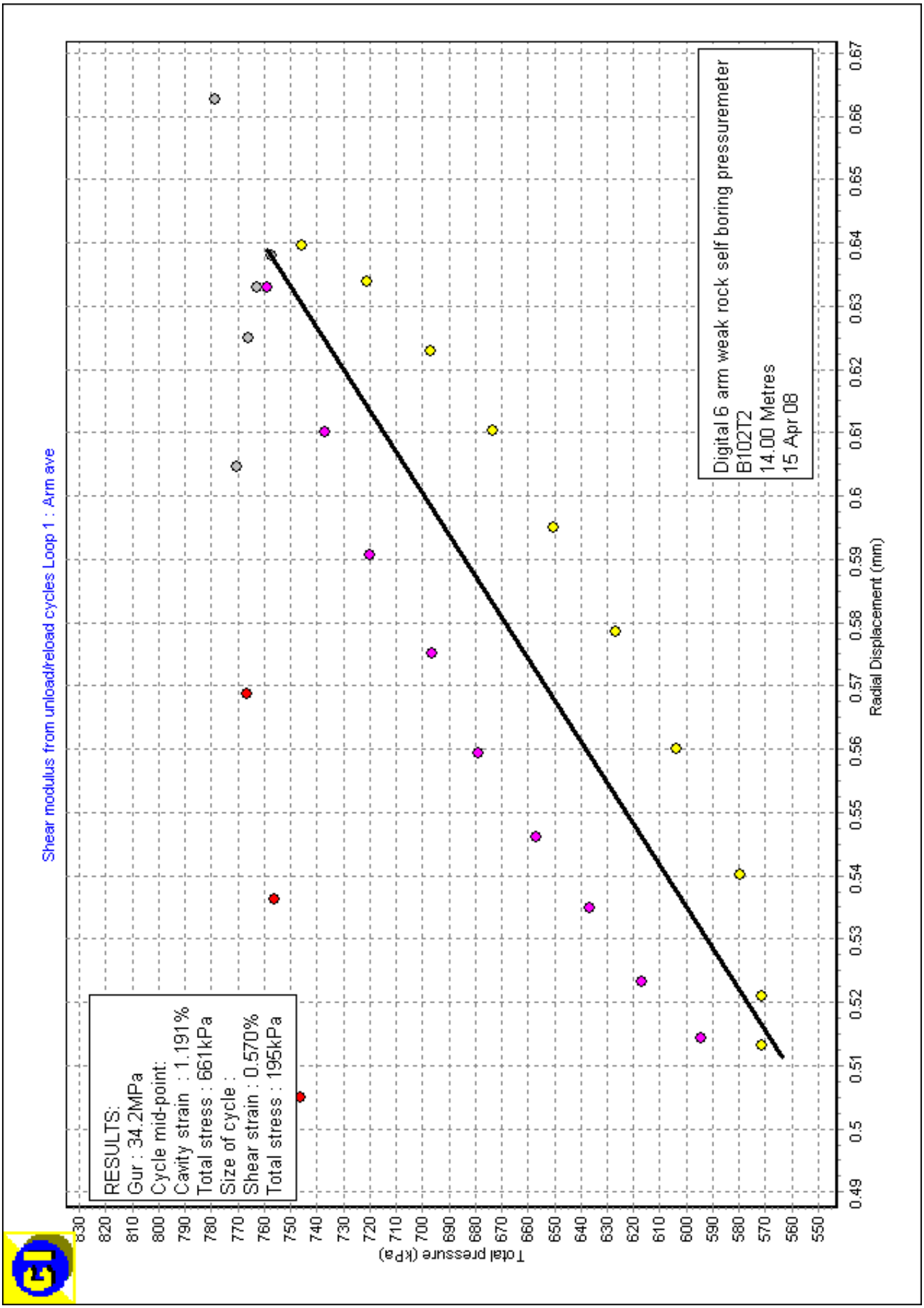
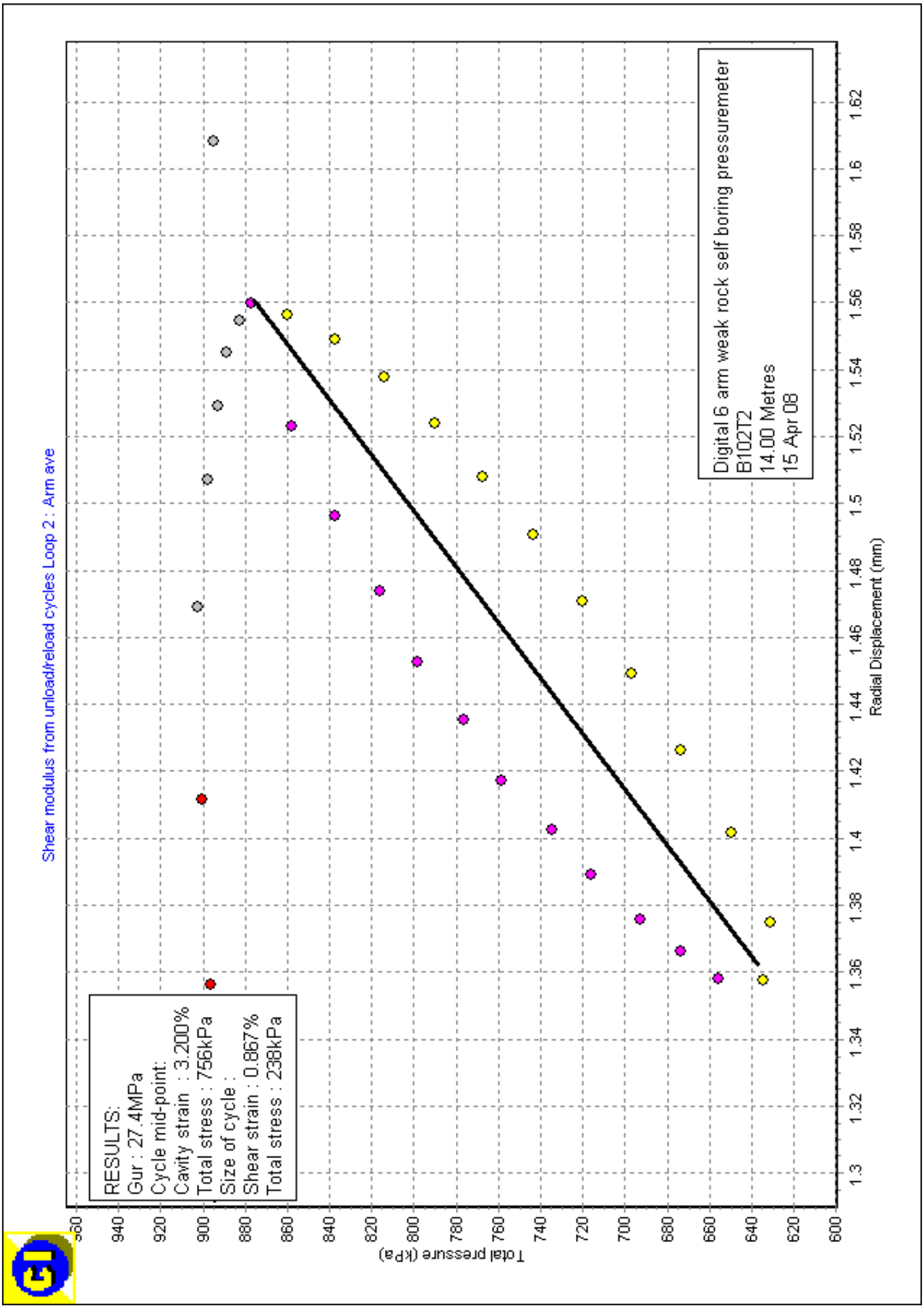
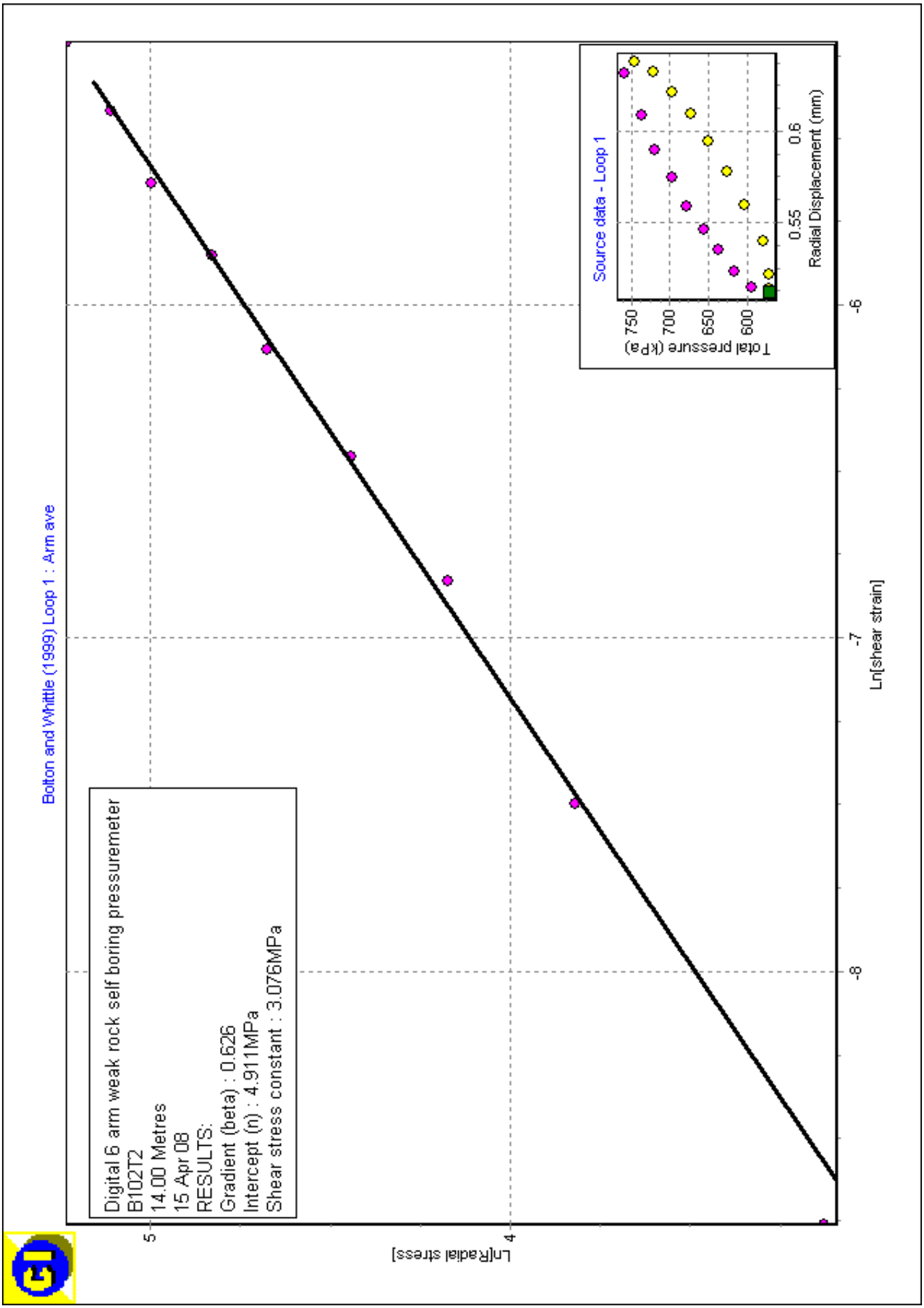
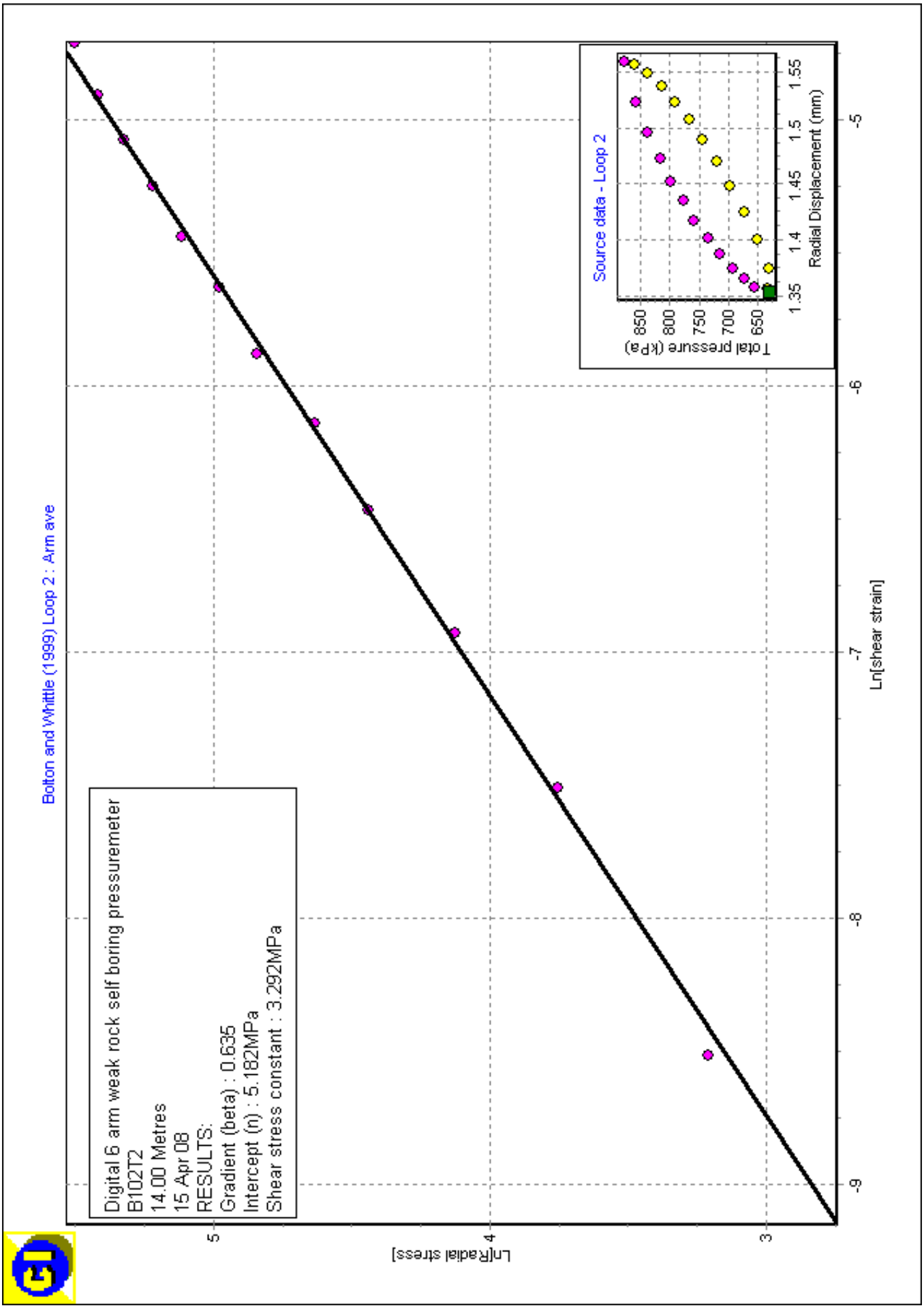
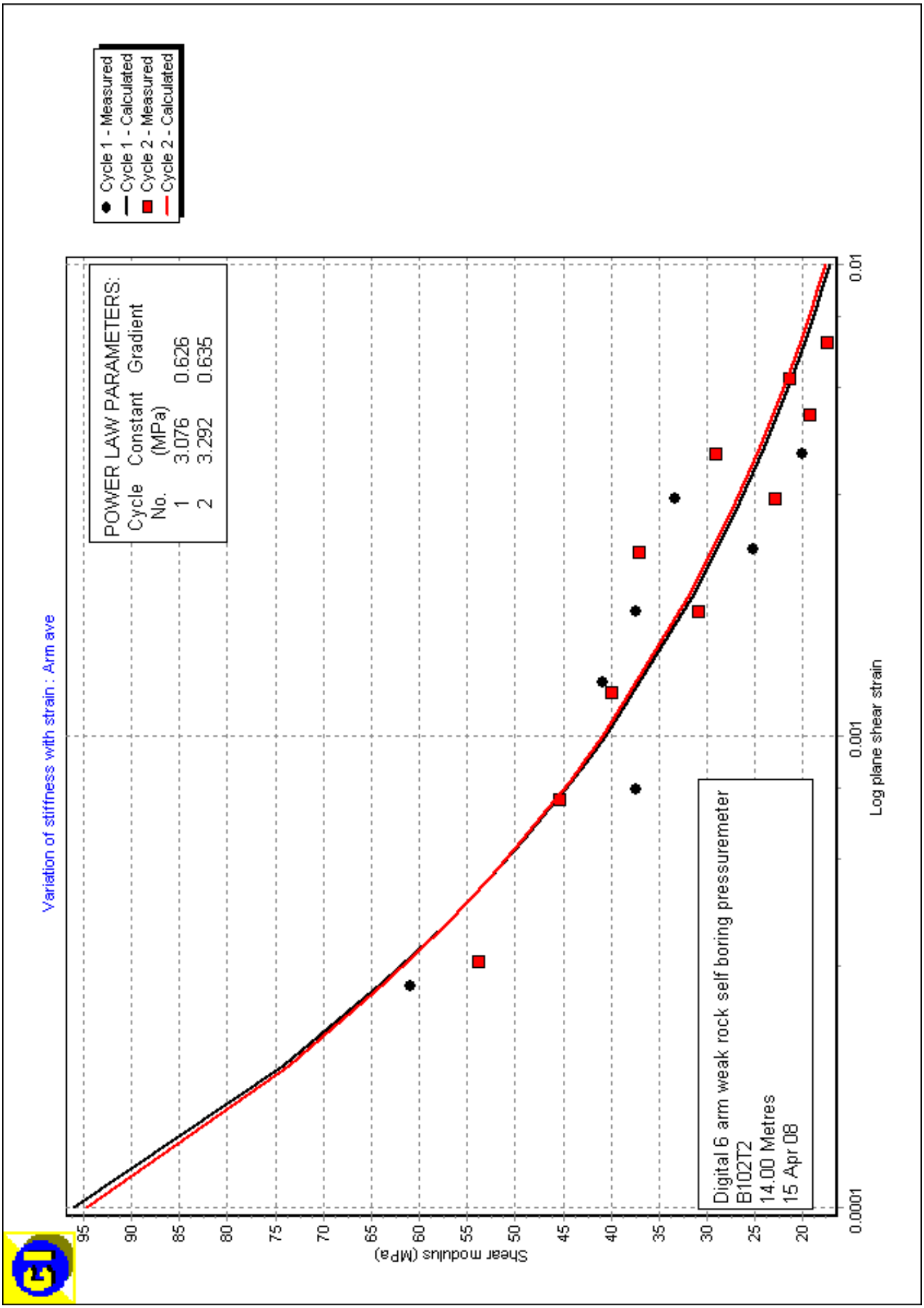

Palmer 1972 (contraction) : Arm ave
RESULTS:
2Cu : 272.6kPa
Digital 6 arm weak rock self boring pressuremeter
B102T2
14.00 Metres
15 Apr 08
Shear stress (kPa)
Shear strain (%)

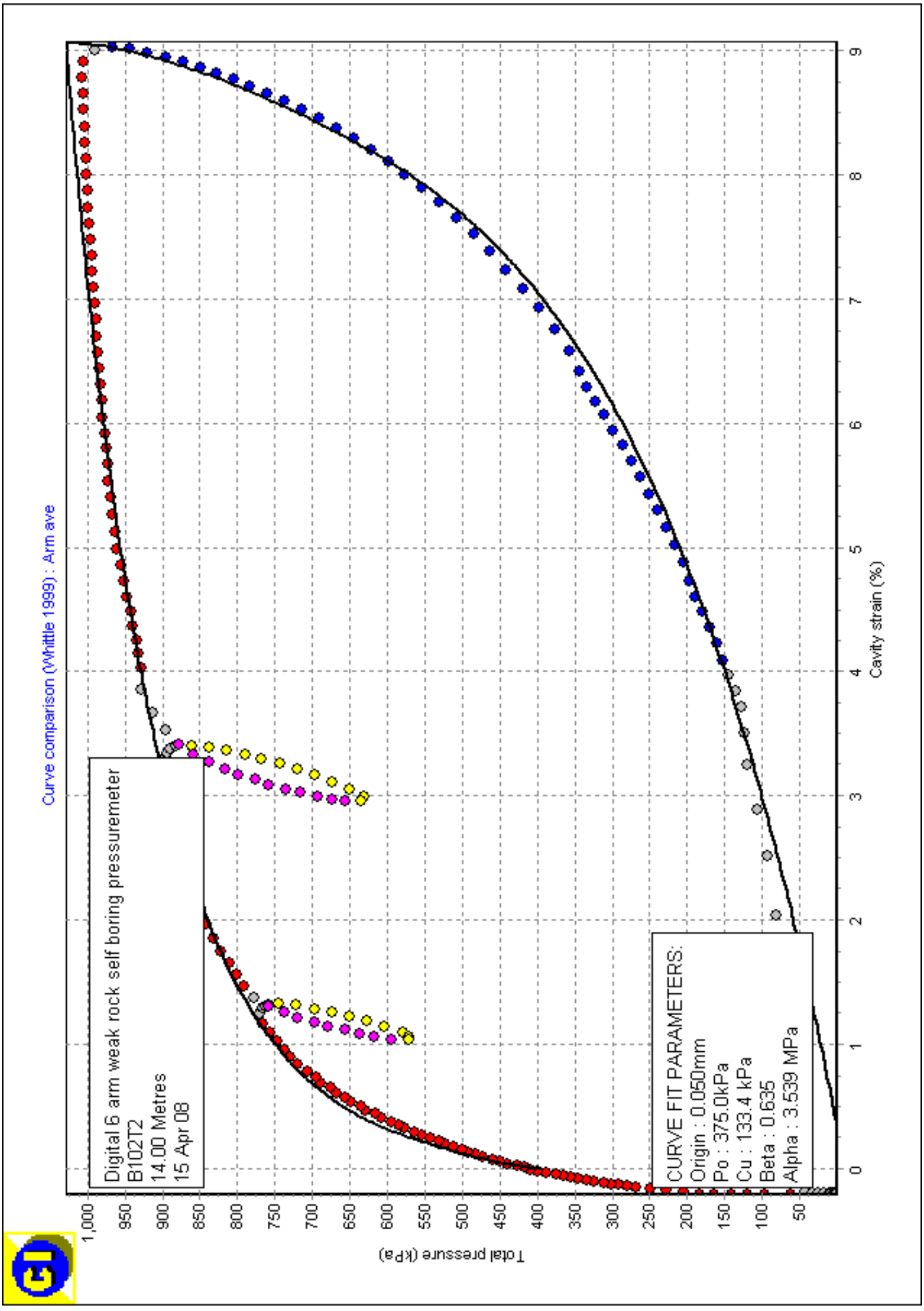

Shear modulus from unload/reload cycles Loop 1 : Arm ave
RESULTS:
Gur : 34.2MPa
Cycle mid-point:
Cavity strain : 1.191%
Total stress : 661kPa
Size of cycle :
Shear strain : 0.570%
Total stress : 195kPa
Digital 6 arm weak rock self boring pressuremeter
B102T2
14.00 Metres
15 Apr 08
Total pressure (kPa)
Radial Displacement (mm)


Shear modulus from unload/reload cycles Loop 2 : Arm ave
RESULTS:
Gur : 27.4MPa
Cycle mid-point:
Cavity strain : 3.200%
Total stress : 756kPa
Size of cycle :
Shear strain : 0.867%
Total stress : 238kPa
Digital 6 arm weak rock self boring pressuremeter
B102T2
14.00 Metres
15 Apr 08
Total pressure (kPa)
Radial Displacement (mm)


Bolton and Whittle (1999) Loop 1 : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T2
14.00 Metres
15 Apr 08
RESULTS:
Gradient (beta) : 0.626
Intercept (n) : 4.911MPa
Shear stress constant : 3.076MPa
Ln[Radial stress]
Ln[shear strain]
5
4
-8
-7
-6
Source data - Loop 1
Total pressure (kPa)
750
700
650
600
0.55
0.6
Radial Displacement (mm)


Bolton and Whittle (1999) Loop 2 : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T2
14.00 Metres
15 Apr 08
RESULTS:
Gradient (beta) : 0.635
Intercept (n) : 5.182MPa
Shear stress constant : 3.292MPa
Ln[Radial stress]
Ln[shear strain]
Source data - Loop 2
Total pressure (kPa)
Radial Displacement (mm)


Cycle 1 - Measured
Cycle 1 - Calculated
Cycle 2 - Measured
Cycle 2 - Calculated
POWER LAW PARAMETERS:
Cycle No. Constant (MPa) Gradient
1 3.076 0.626
2 3.292 0.635
Variation of stiffness with strain : Arm ave
Shear modulus (MPa)
Log plane shear strain
Digital 6 arm weak rock self boring pressuremeter
B102T2
14.00 Metres
15 Apr 08


Curve comparison (Whittle 1999) : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T2
14.00 Metres
15 Apr 08
CURVE FIT PARAMETERS:
Origin : 0.050mm
Po : 375.0kPa
Cu : 133.4 kPa
Beta : 0.635
Alpha : 3.539 MPa
Total pressure (kPa)
Cavity strain (%)

6 ARM SELF BORING PRESSUREMETER TEST RECORD SHEET

Site	Date	Day	Borehole	Test	Depth to Test Centre (below ground level)
DENMARK PLACE	15/4/08	TUES	B102	2	14.0

Weather:- FINE | Material:-

Water table	Drilling Start	Drilling End	Distance	Drill Rate	Ram Pressure
?		14 25 – 14:50	1m.	1m/20 min	

Ground level :- | Orientation:-

Water Press.	Inst.OD	Shoe OD	Cutter Type	Cutter position	Probe Reference
>200Psi	88.1	89.1	73RR	5mm	~ Norcy '

Drilling Remarks:-

Strain Rate	Press. Rate	Cycle Time	Gas Bottle	Battery	PPC Type	Max Pressure Cap.
1%/min	4(L)	6sec	3000 Psi	10.2V	TRNS	10MPa.

Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	PPC A	PPC B	TPC	Date:-
-117	89	-55	41	-91	128	-1075	-917	-2464	Ground Level Zeros
									Pre-drilling Zeros
									Post-drilling Zeros
-126	83	-60	35	-103	107	-1033	-861	-2459	Pre-test Zeros
									Ground Level Zeros

Test starts:- 14:52

Line	Notes
332	Hold
338	Loop 1 P25
372	Hold 9000kPa.
376	Loop 2
405	PR3
443	Unload

Test ends:- 15:17. | Max Press:- 10074kPa.

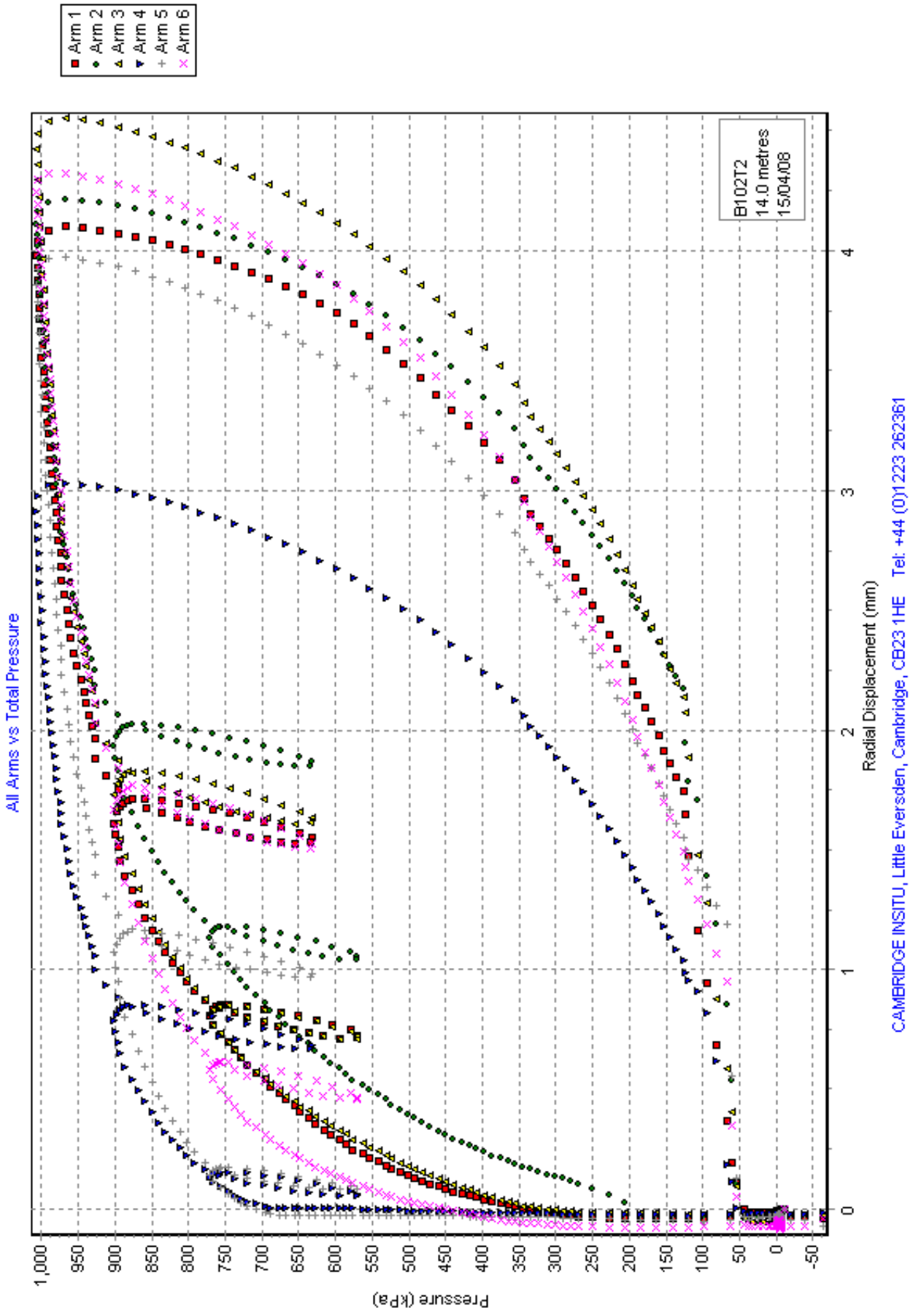
Calibrated Data details:

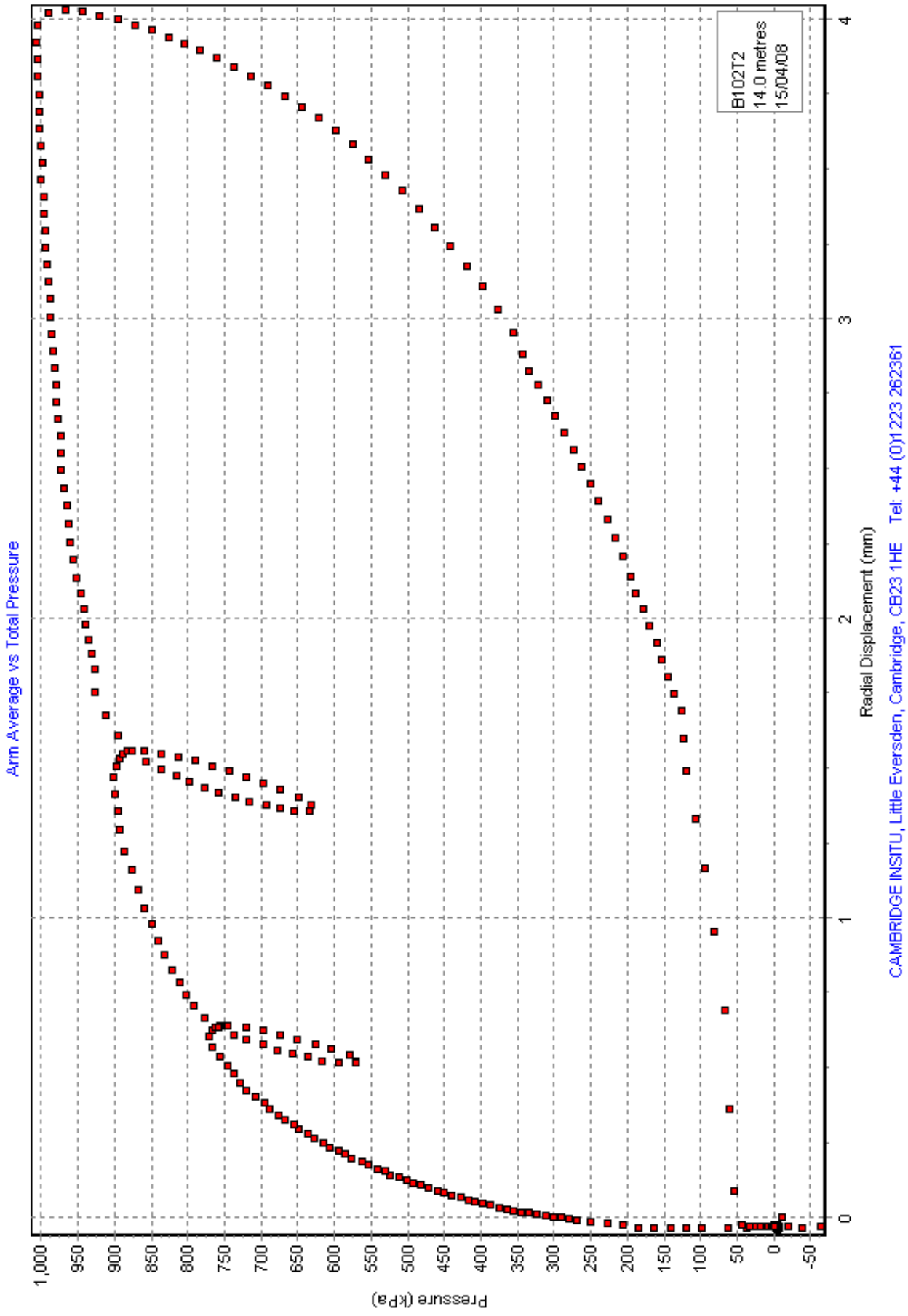
Mem. Correction.	Mem. Compression.	Strain Cals.	Pressure Cals.
W0130T1	W0130T2	10/4/08	9/4/08.

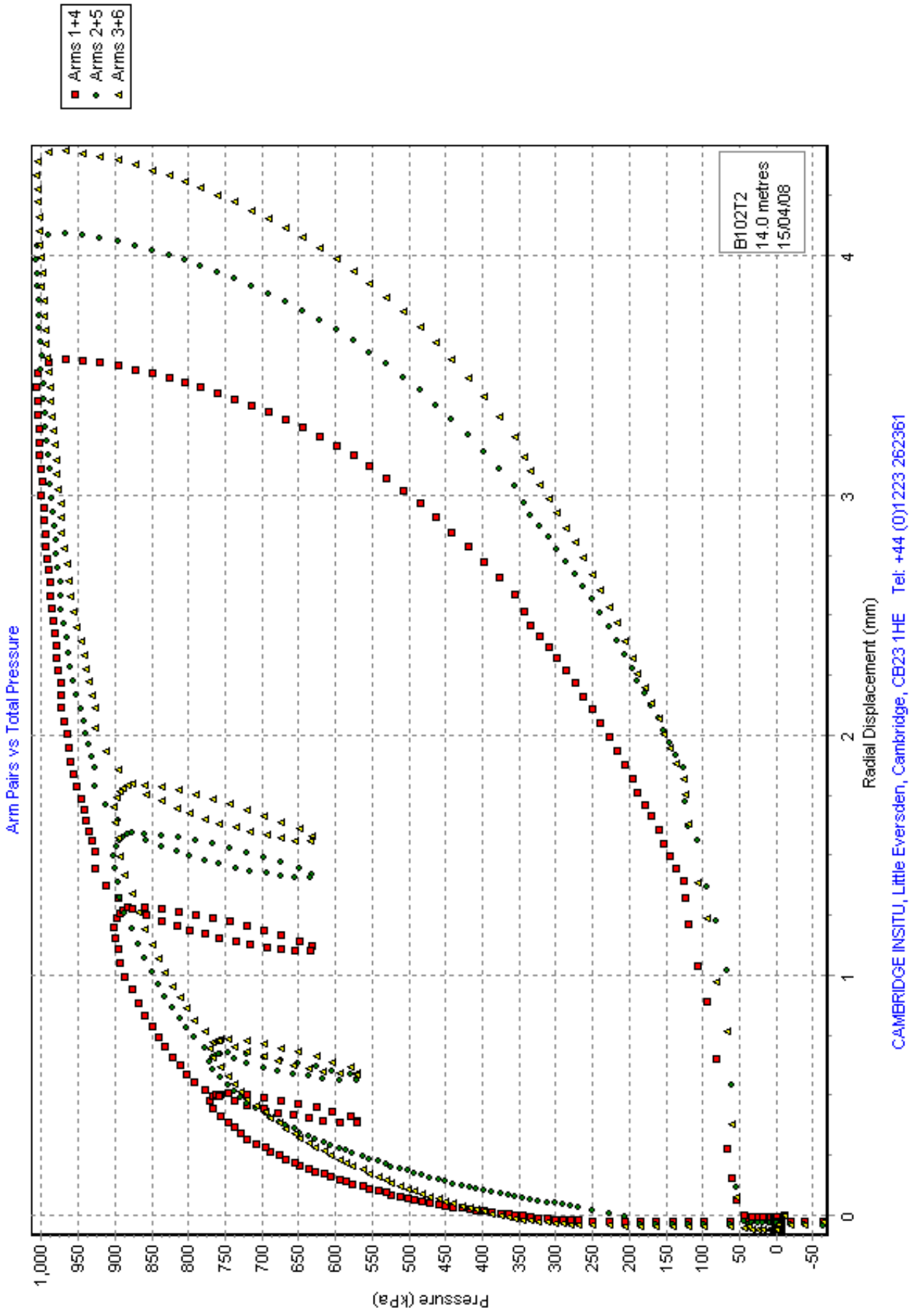
TEST REMARKS:

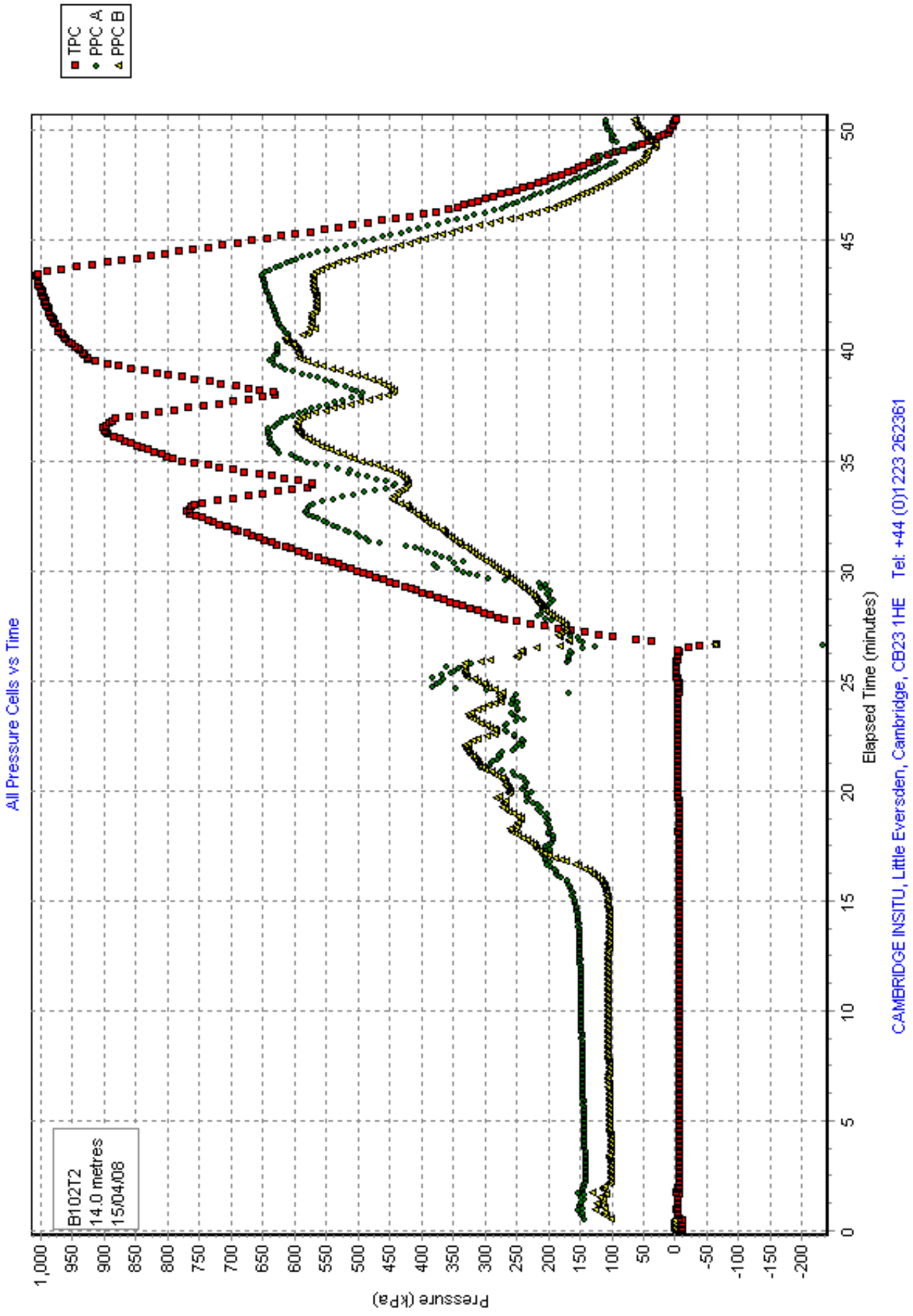
Driller: Dan

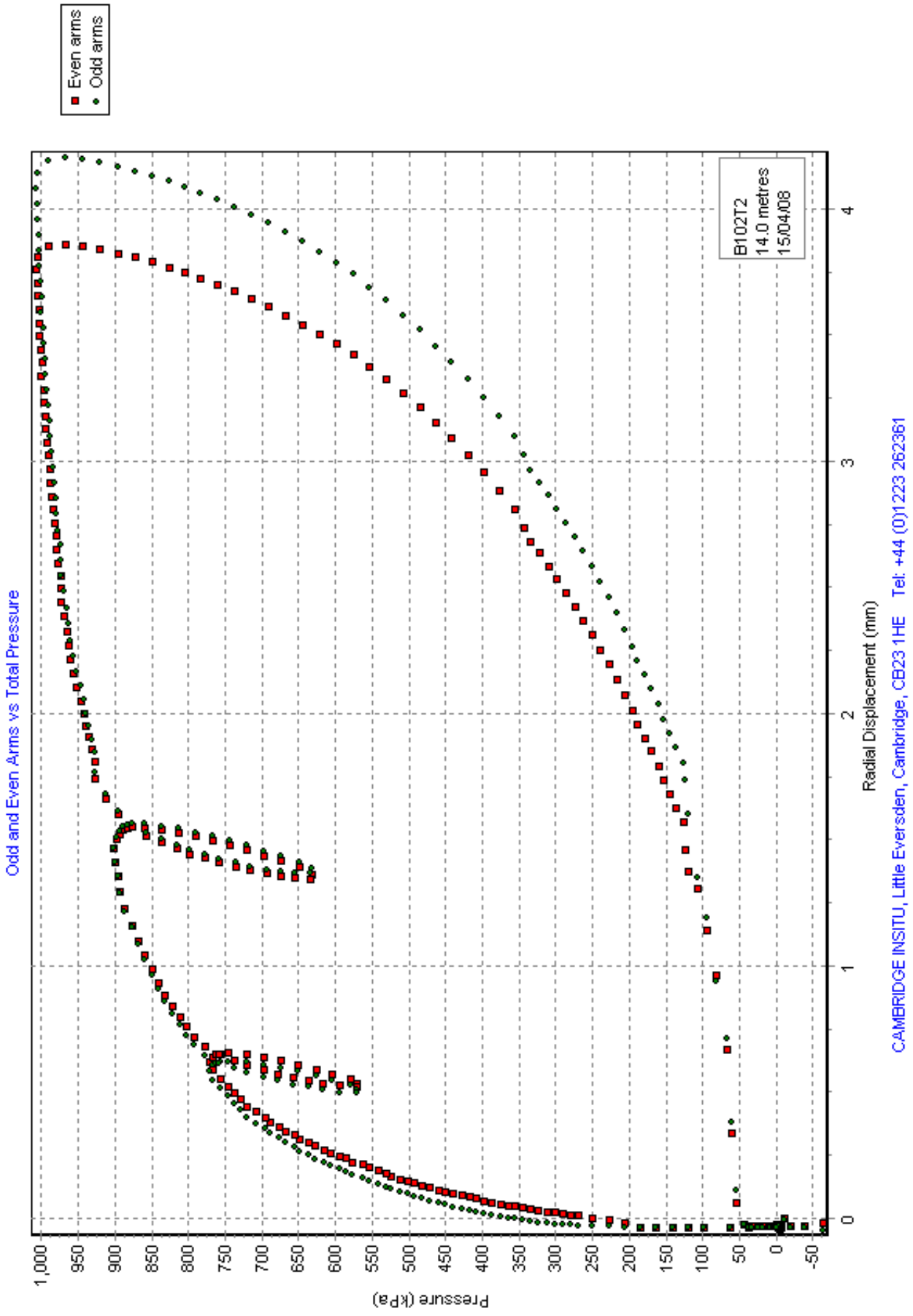
Tester: RW


Arm 1
Arm 2
Arm 3
Arm 4
Arm 5
Arm 6
All Arms vs Total Pressure
B102T2
14.0 metres
15/04/08
Pressure (kPa)
Radial Displacement (mm)
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361


Arm Average vs Total Pressure
Pressure (kPa)
1,000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50
Radial Displacement (mm)
0
1
2
3
4
B102T2
14.0 metres
15/04/08
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361


Arms 1+4
Arms 2+5
Arms 3+6
Arm Pairs vs Total Pressure
Pressure (kPa)
1,000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
-50
Radial Displacement (mm)
0
1
2
3
4
B102T2
14.0 metres
15/04/08
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361


TPC
PPC A
PPC B
B102T2
14.0 metres
15/04/08
All Pressure Cells vs Time
Pressure (kPa)
Elapsed Time (minutes)
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361


Even arms
Odd arms
Odd and Even Arms vs Total Pressure
B102T2
14.0 metres
15/04/08
Pressure (kPa)
Radial Displacement (mm)
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361

B102T3 - SUMMARY OF RESULTS
[File made with WinSitu Version 1.20.1.1]

[DETAILS OF TEST]
Project : 36237
Site : Denmark Place
Borehole : BH102
Test name : B102T3
Test date : 16 Apr 08
Test depth : 20.00 Metres
Water table : 5.6 Metres
Ambient PWP : 141.3 kPa
Material : London Clay
Probe : Digital 6 arm weak rock self boring pressuremeter
Diameter : 88.1 mm
Data analysed using average arm displacement curve
A non-linear analysis of the rebound cycles has been carried out
The file includes results from a curve fitting analysis

Analysed by RWW on 16 Apr 08

Remarks:

[RESULTS FOR CAVITY REFERENCE PRESSURE]
Strain Origin (mm) : "Arm ave=0.079"
Po from Marsland & Randolph (kPa) : "Arm ave=607.2"
Po from Lift off (kPa) : "Arm ave=430.2"
PWP versus Total Stress (kPa) : "PPC Ave=236.2"
Best estimate of Po (kPa) : "Arm ave=607.0"

[UNDRAINED STRENGTH PARAMETERS]
Gibson & Anderson 1961 - Cu (kPa) : "Arm ave=297.2"
Limit pressure (kPa) : "Arm ave=2380"
Jefferies 1988 - Cu (kPa) : "Arm ave=321.8"
Undrained yield stress (kPa) : "Arm ave=862.3"

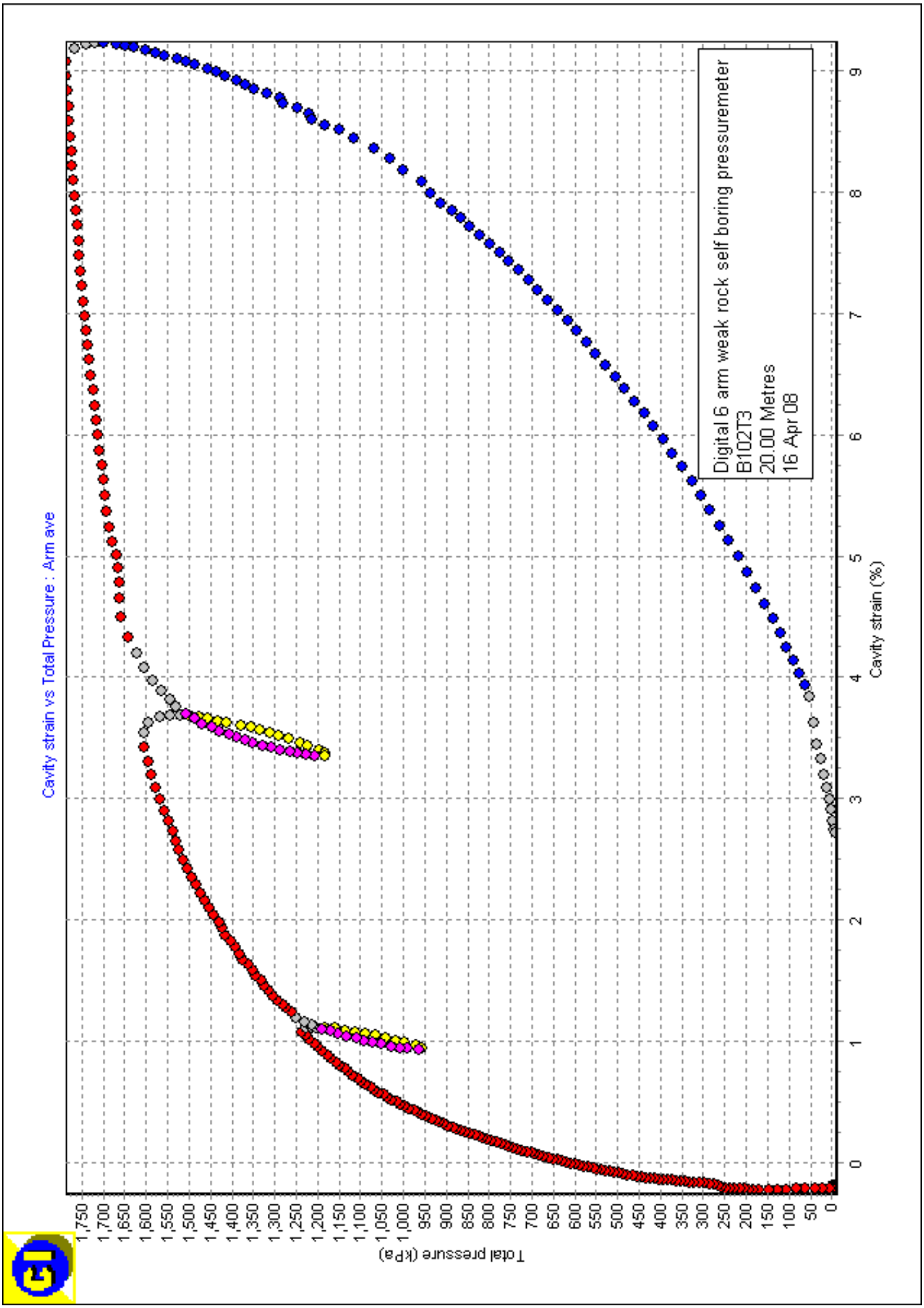
[LINEAR INTERPRETATION OF SHEAR MODULUS G]
Initial slope shear modulus (MPa) :"Arm ave=47.7"

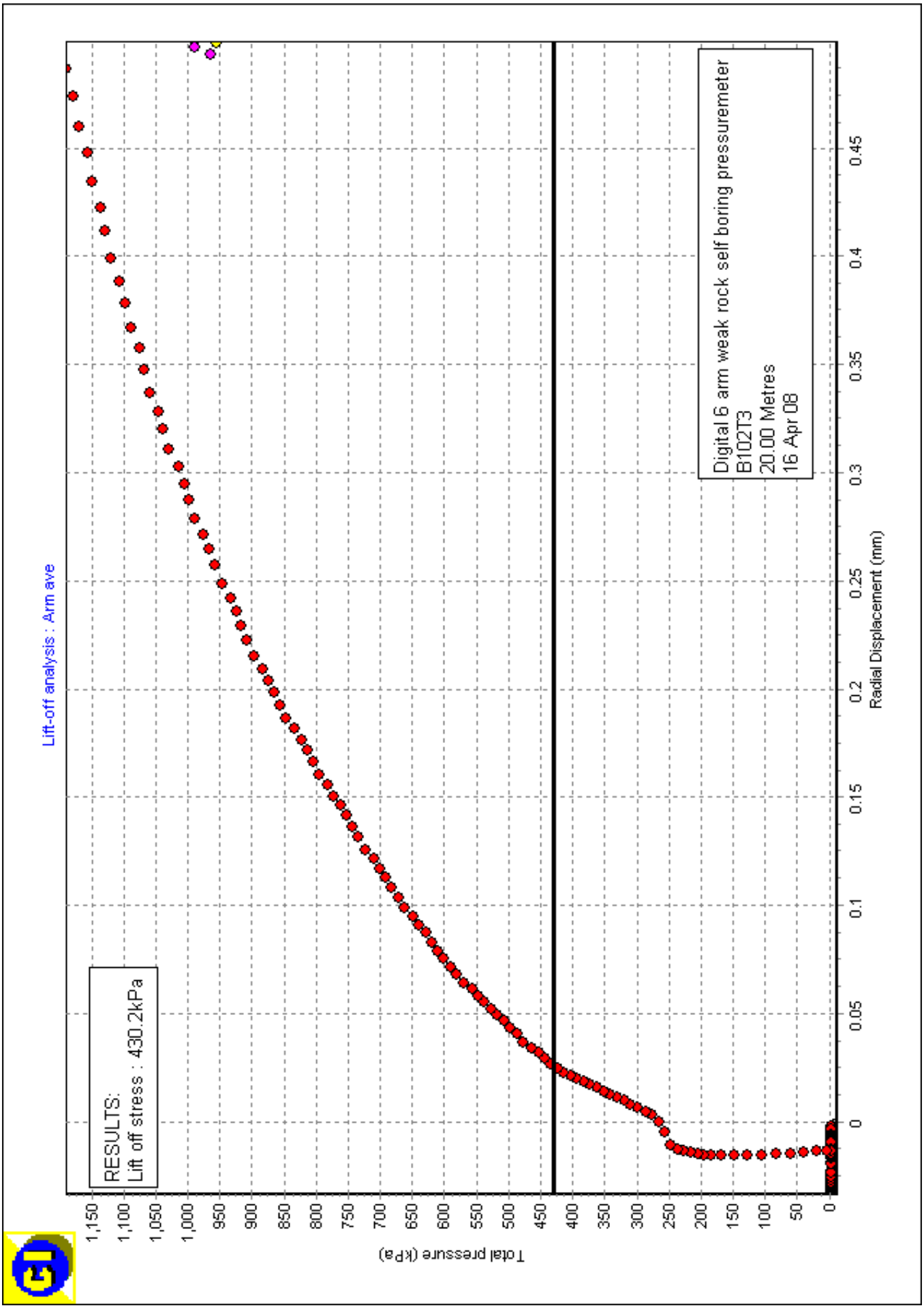
Axis	Loop No	Value (MPa)	Mean Strain (%)	Mean Pc (kPa)	dE (%)	dPc (kPa)
Arm ave	1	65.5	1.034	1077	0.369	242
Arm ave	2	49.0	3.533	1344	0.655	322

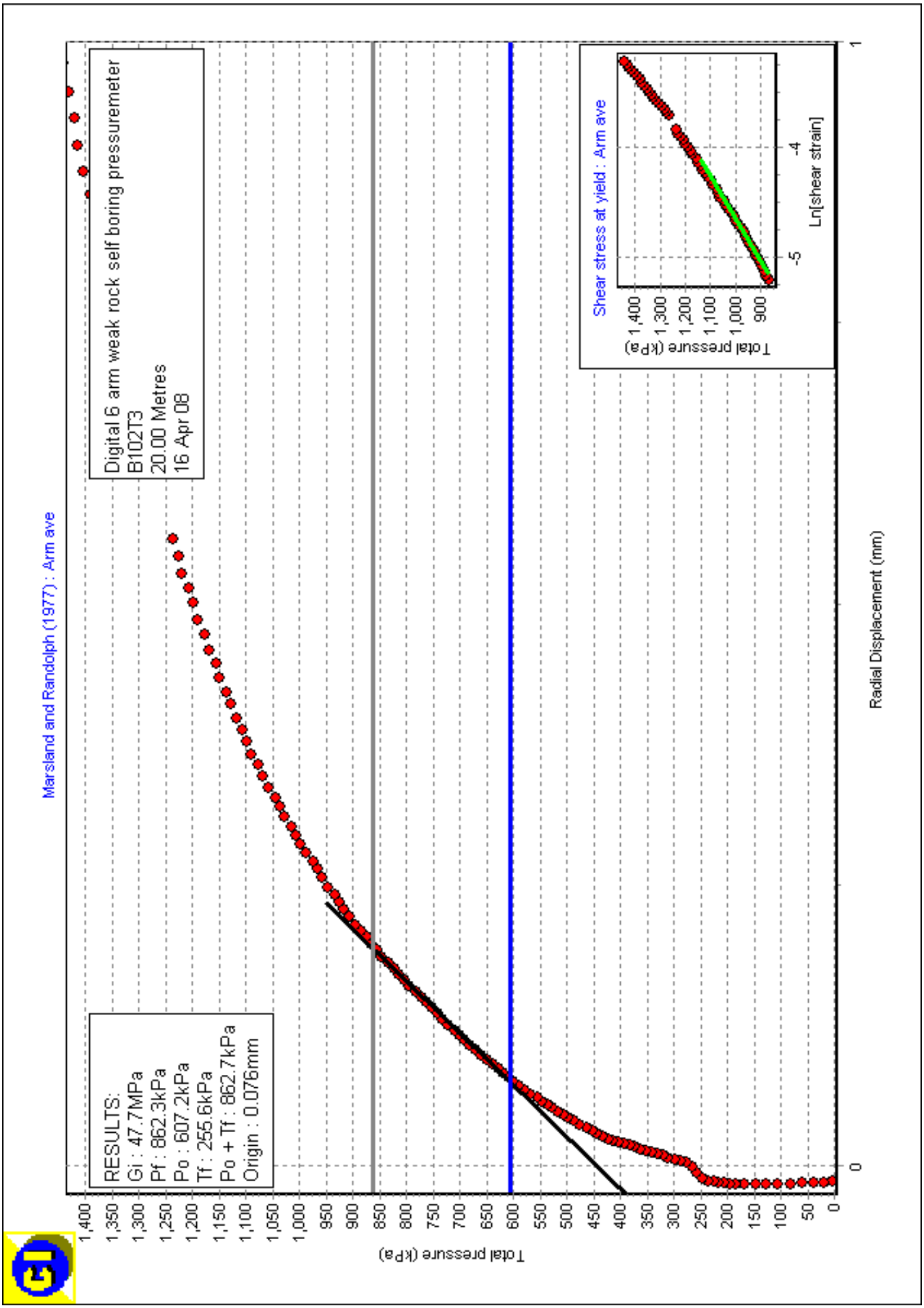
[NON LINEAR INTERPRETATION OF SECANT SHEAR MODULUS]

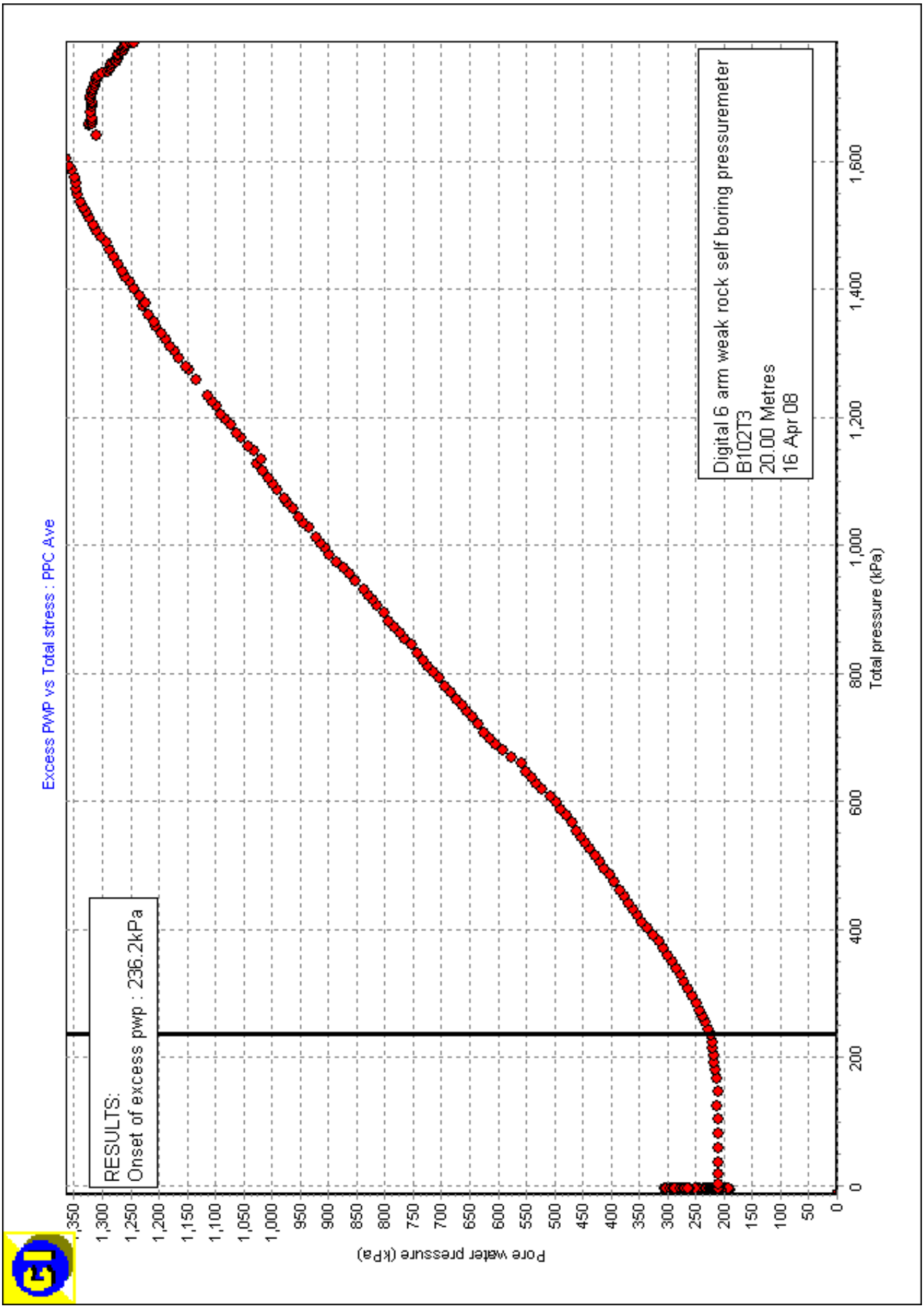
Axis	Loop No	Intercept (MPa)	Alpha (MPa)	Gradient
Arm ave	1	11.060	7.481	0.676
Arm ave	2	8.449	5.405	0.640

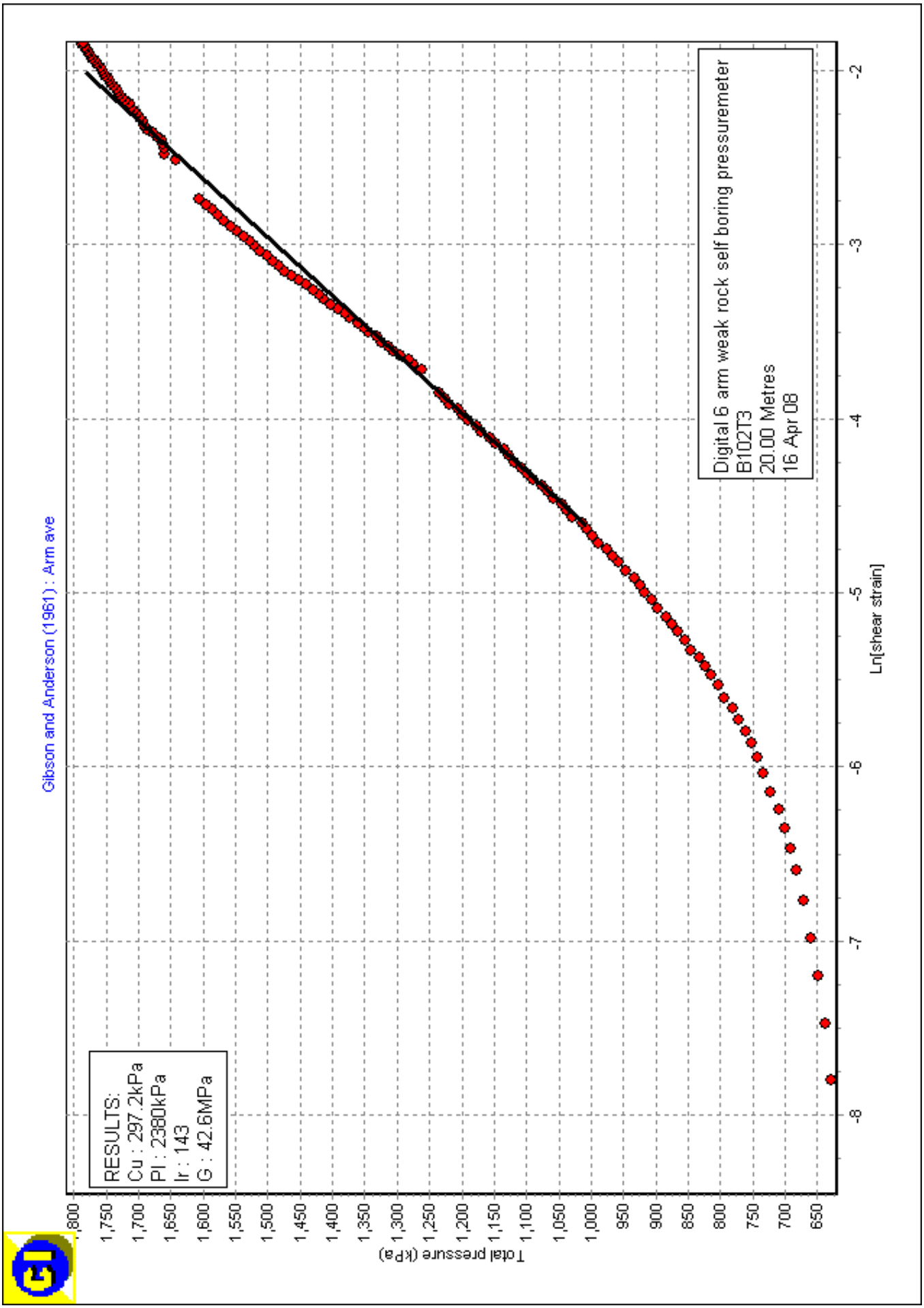
[PARAMETERS USED FOR UNDRAINED CURVE MODELLING]
Axis is Arm ave
Strain Origin (mm) : 0.04
Po (kPa) : 487
Cu (kPa) : 320.6
Limit pressure (kPa) : 2448
Non-linear exponent : 0.676
Calculated alpha (MPa) : 7.374
G at yield (MPa) : 33.1

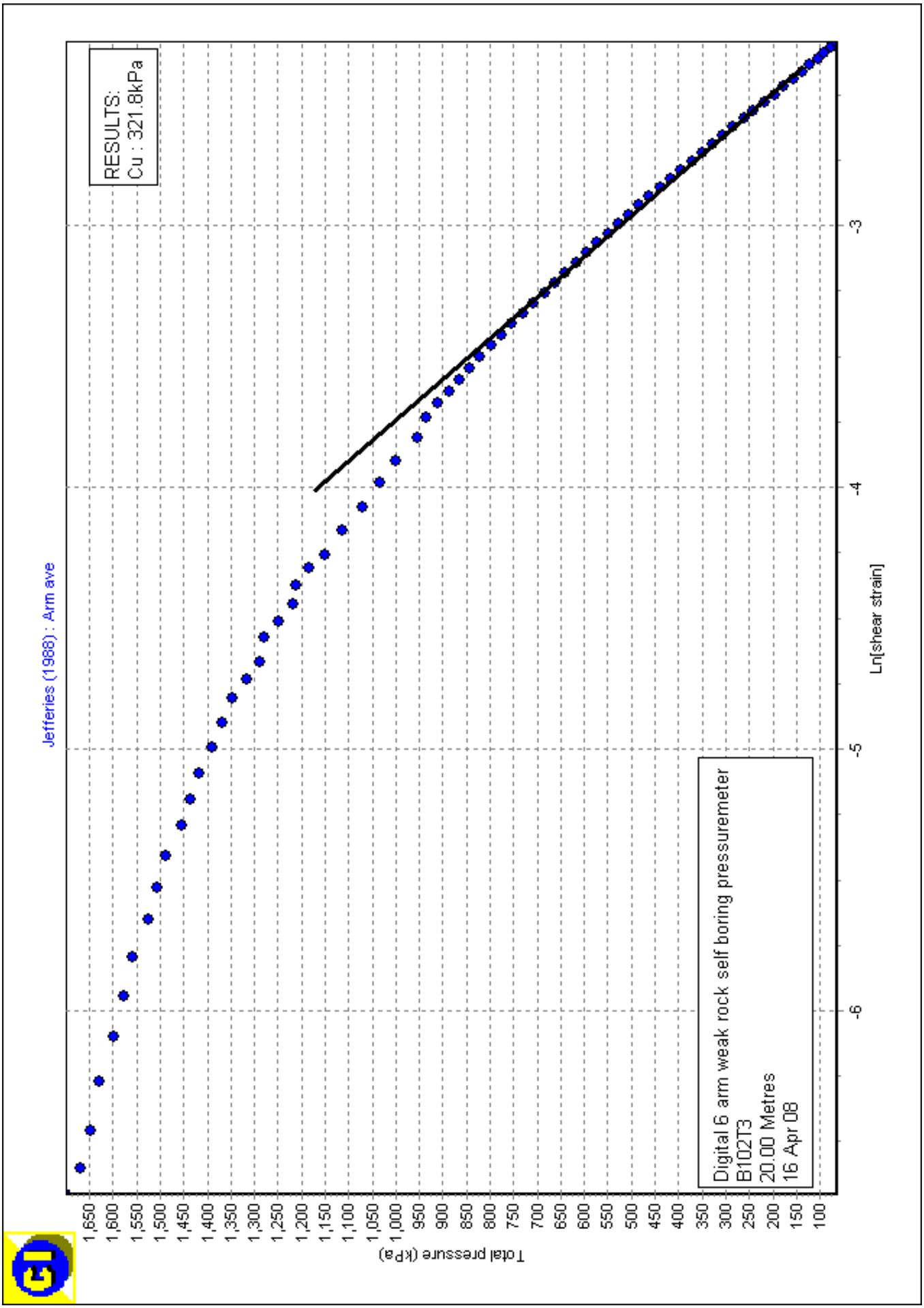

Cavity strain vs Total Pressure : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Total pressure (kPa)
Cavity strain (%)

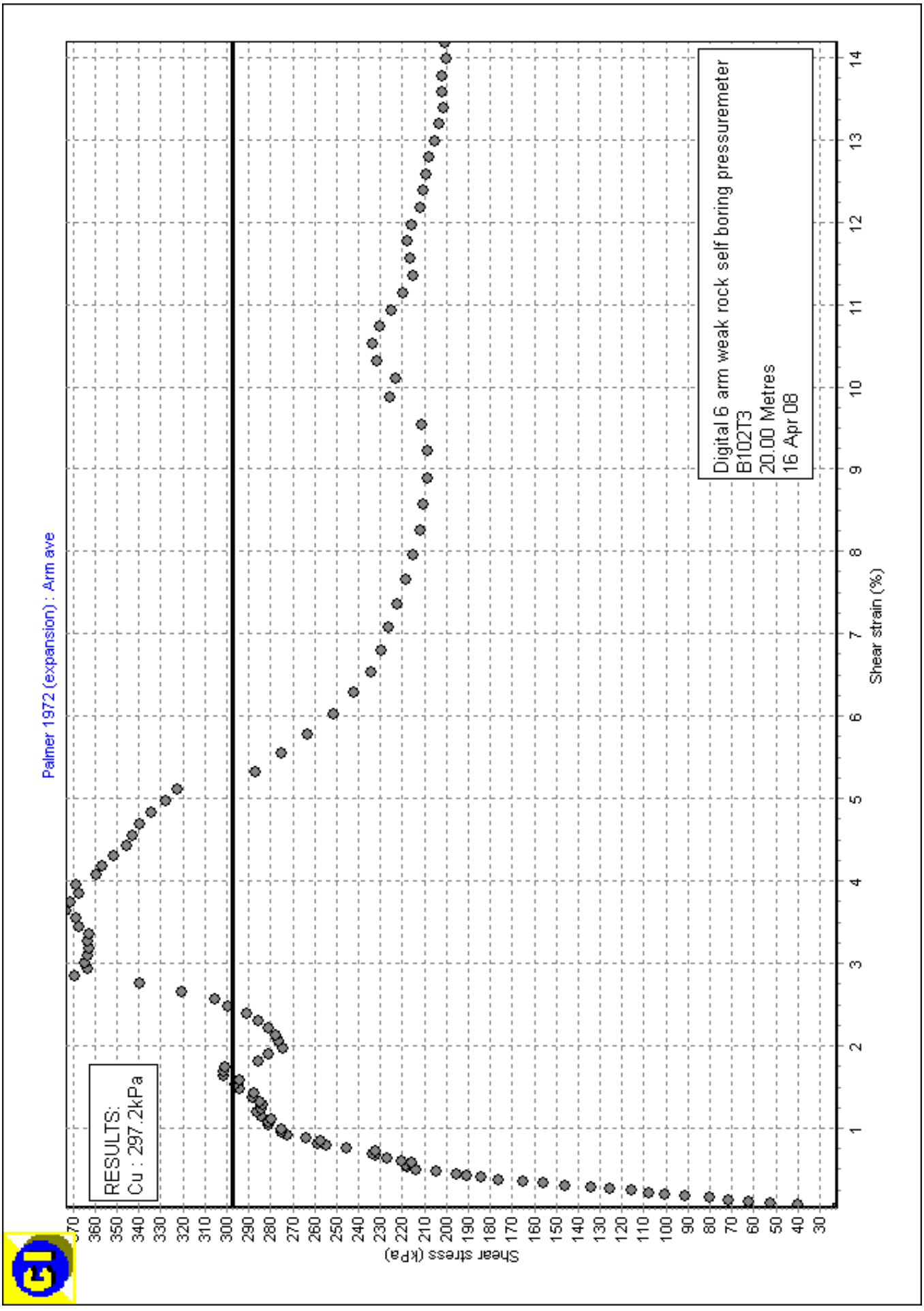

Lift-off analysis : Arm ave
RESULTS:
Lift off stress : 430.2kPa
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Total pressure (kPa)
Radial Displacement (mm)
1,150
1,100
1,050
1,000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
0.45

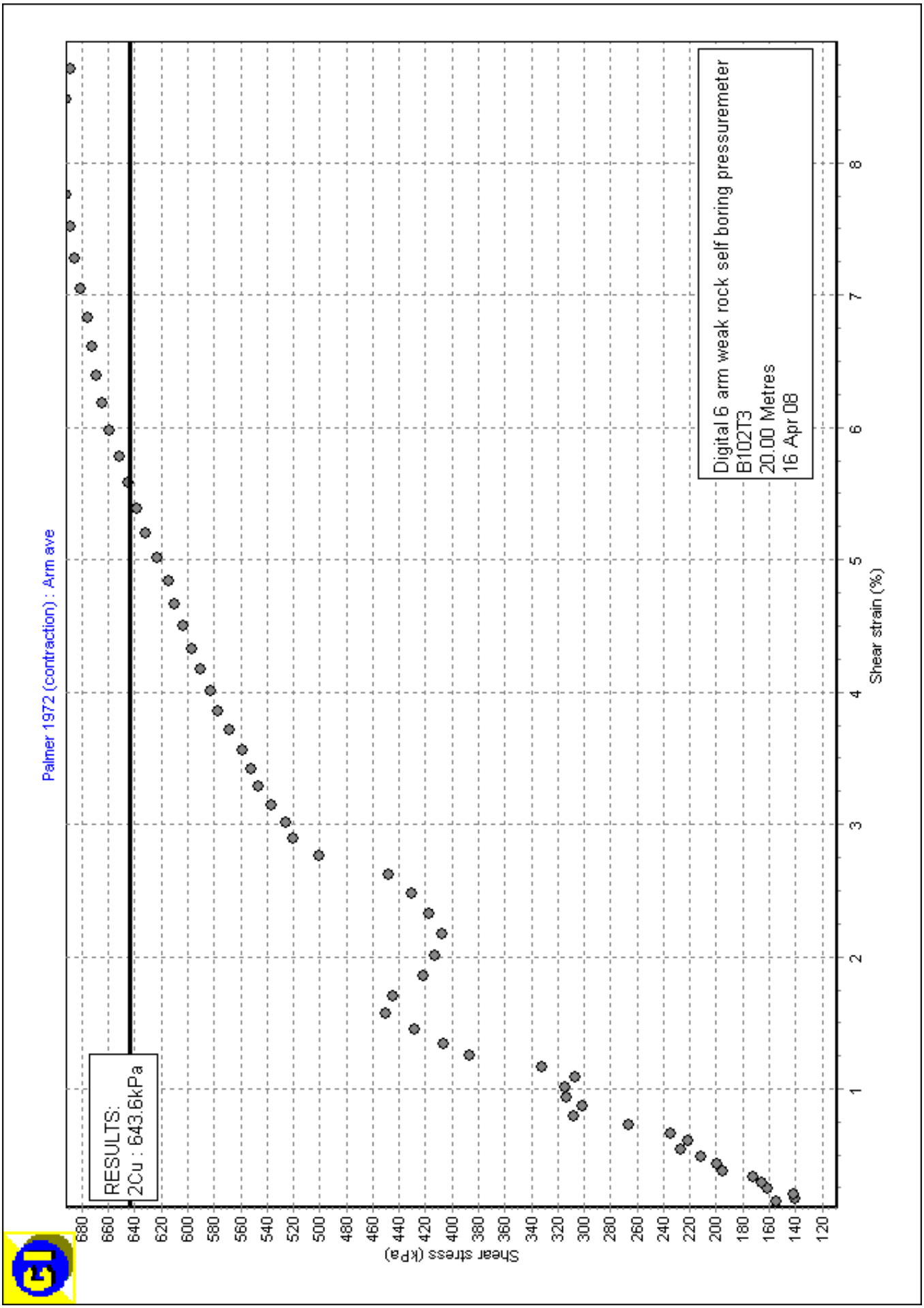

Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
RESULTS:
Gi : 47.7MPa
Pf : 862.3kPa
Po : 607.2kPa
Tf : 255.6kPa
Po + Tf : 862.7kPa
Origin : 0.076mm
Marsland and Randolph (1977) : Arm ave
Total pressure (kPa)
Radial Displacement (mm)
Shear stress at yield : Arm ave
Total pressure (kPa)
Ln[shear strain]

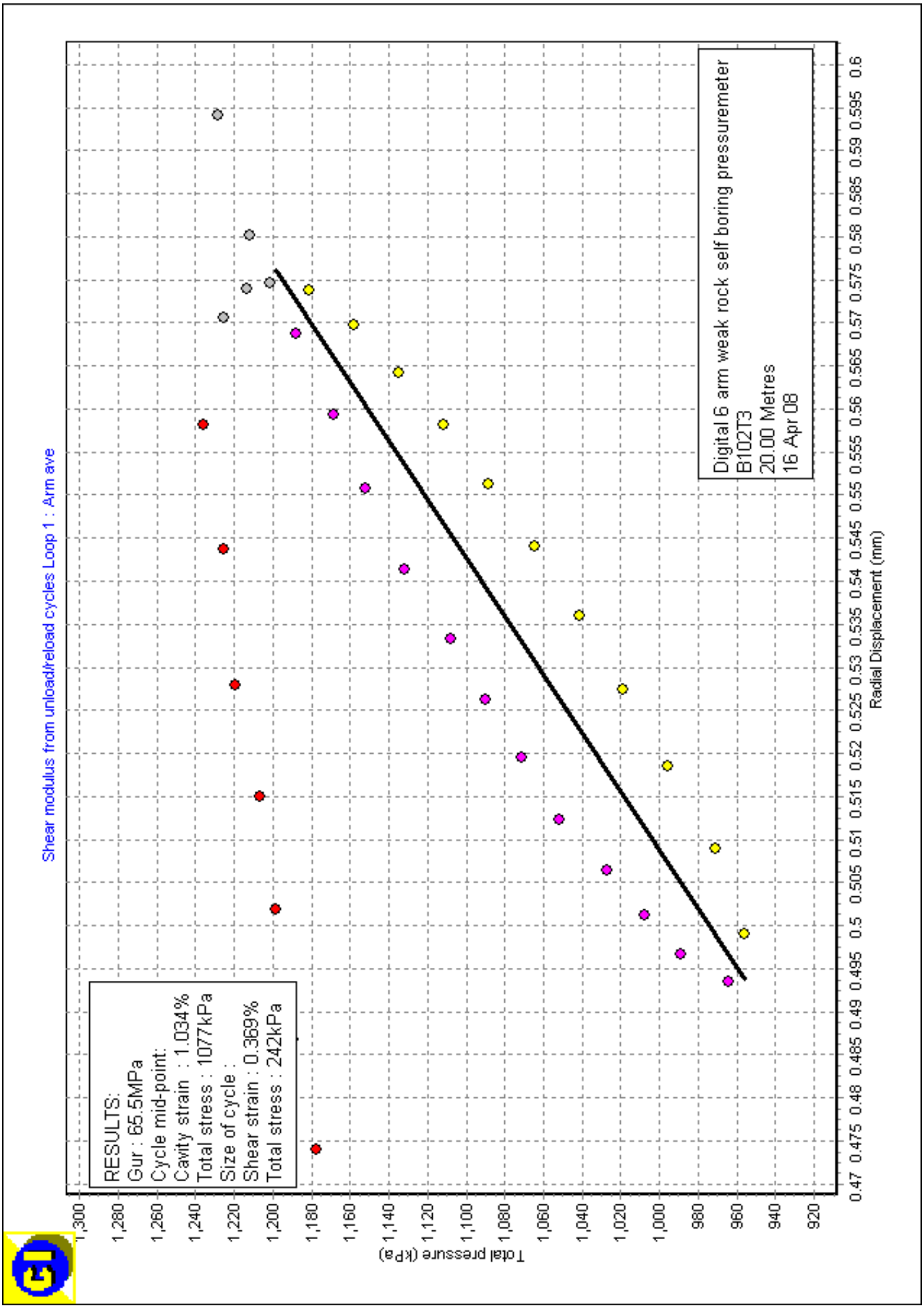

Excess PWP vs Total stress : PPC Ave
RESULTS:
Onset of excess pwp : 236.2kPa
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Pore water pressure (kPa)
Total pressure (kPa)
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1,000
1,050
1,100
1,150
1,200
1,250
1,300
1,350
0
200
400
600
800
1,000
1,200
1,400
1,600

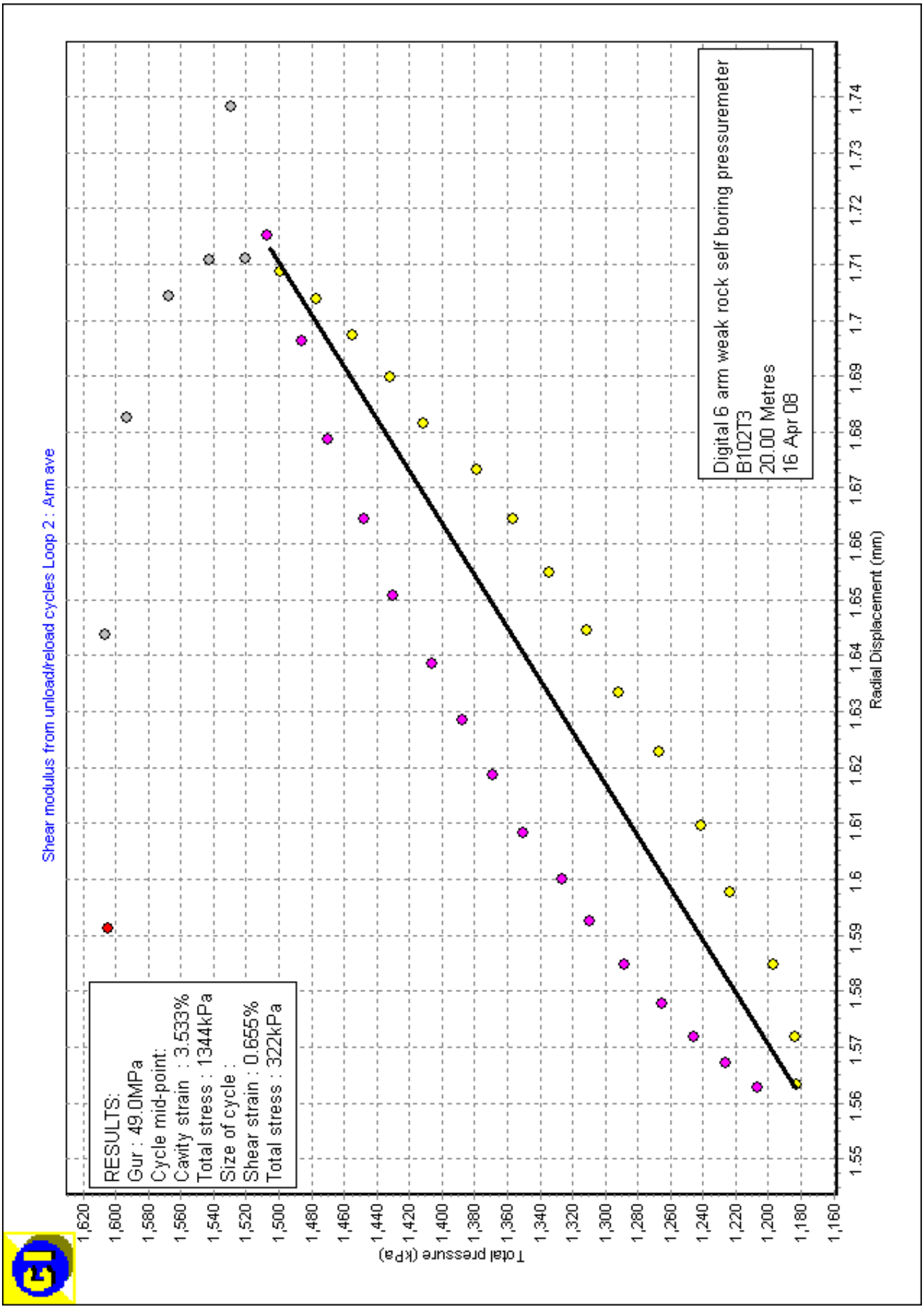

Gibson and Anderson (1961) : Arm ave
RESULTS:
Cu : 297.2kPa
PI : 2380kPa
Ir : 143
G : 42.6MPa
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Total pressure (kPa)
Ln[shear strain]

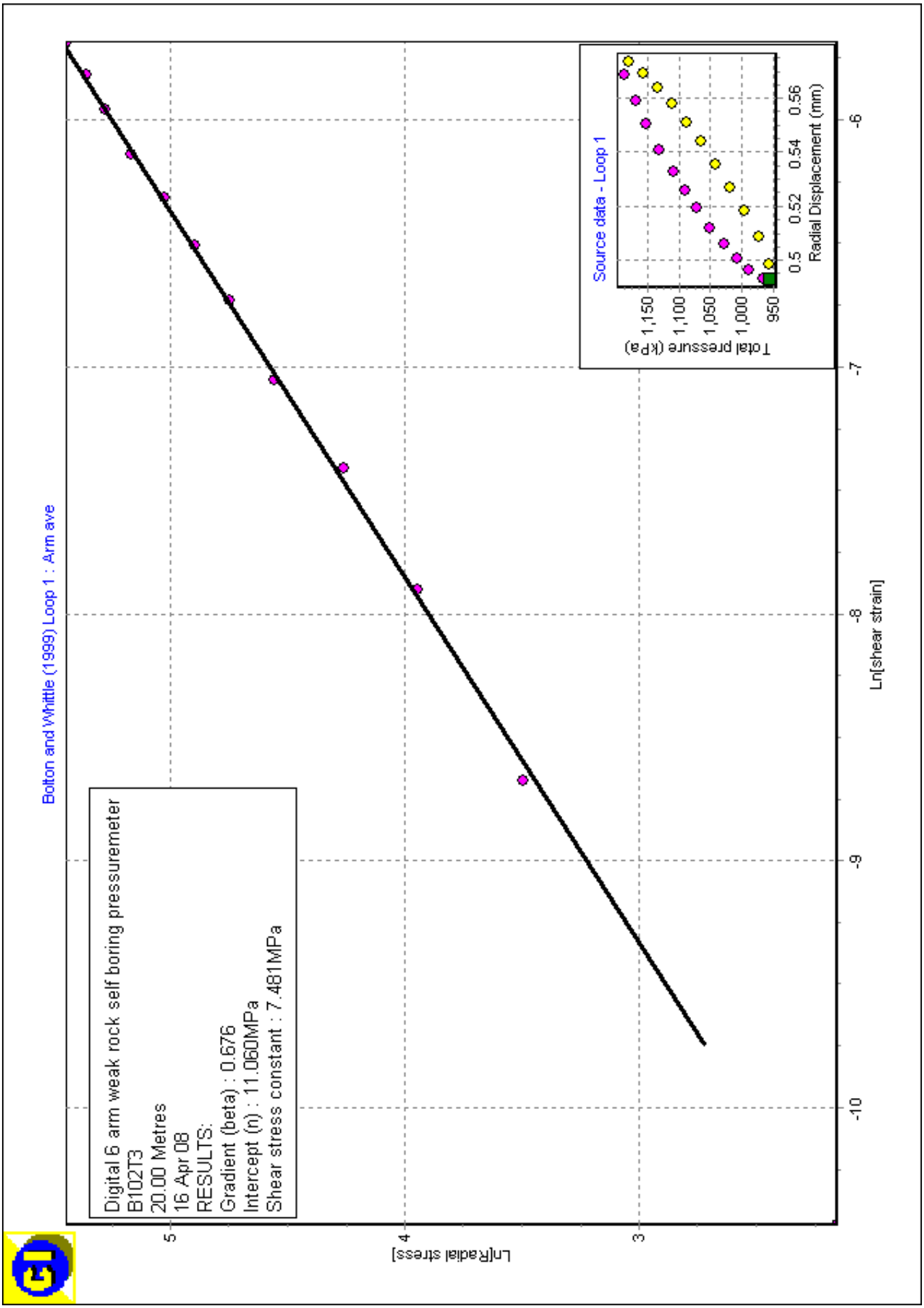

RESULTS:
Cu : 321.8kPa
Jefferies (1988) : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Total pressure (kPa)
Ln[shear strain]
1,650
1,600
1,550
1,500
1,450
1,400
1,350
1,300
1,250
1,200
1,150
1,100
1,050
1,000
950
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
-3
-4
-5
-6

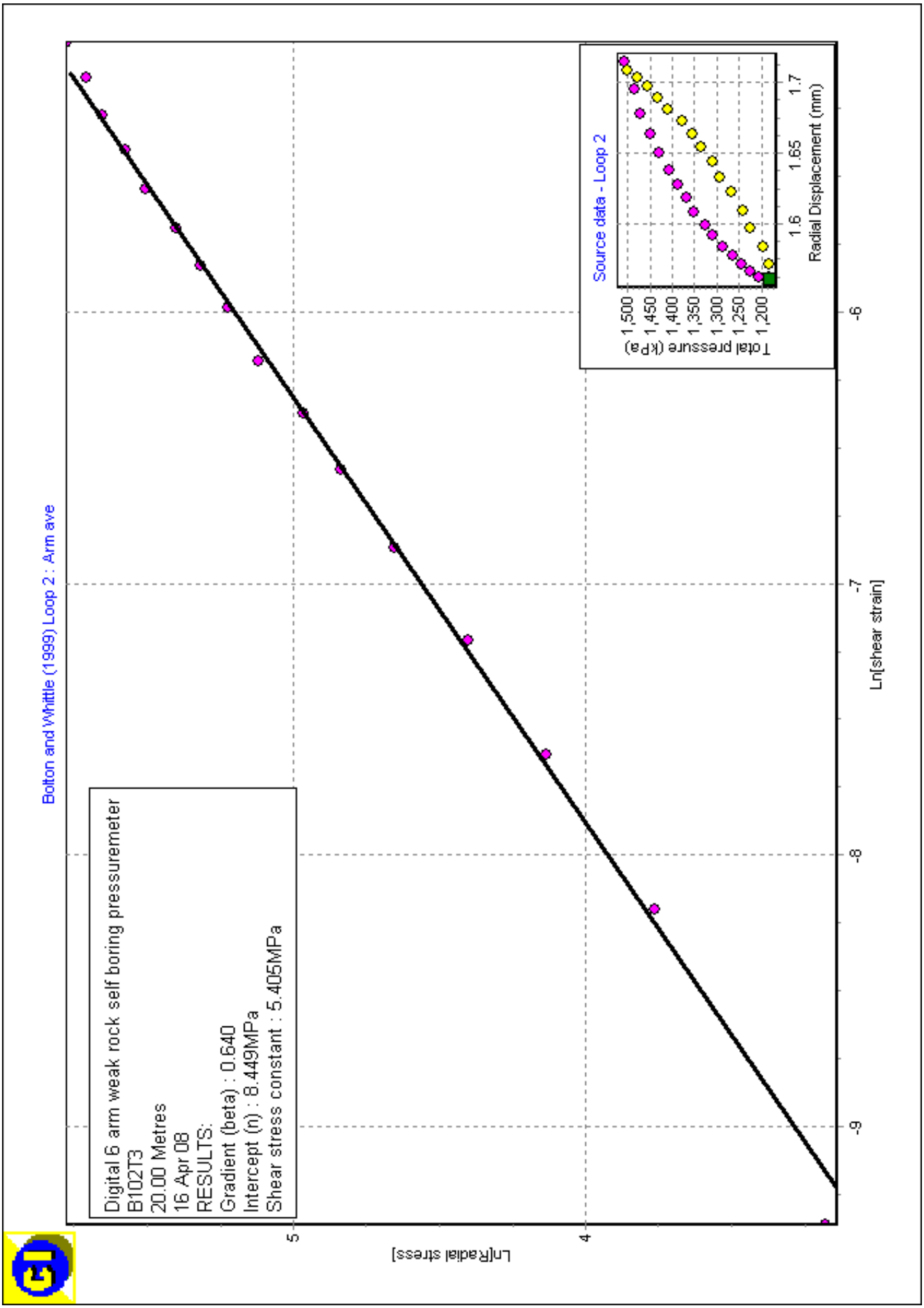

Palmer 1972 (expansion) : Arm ave
RESULTS:
Cu : 297.2kPa
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Shear stress (kPa)
Shear strain (%)

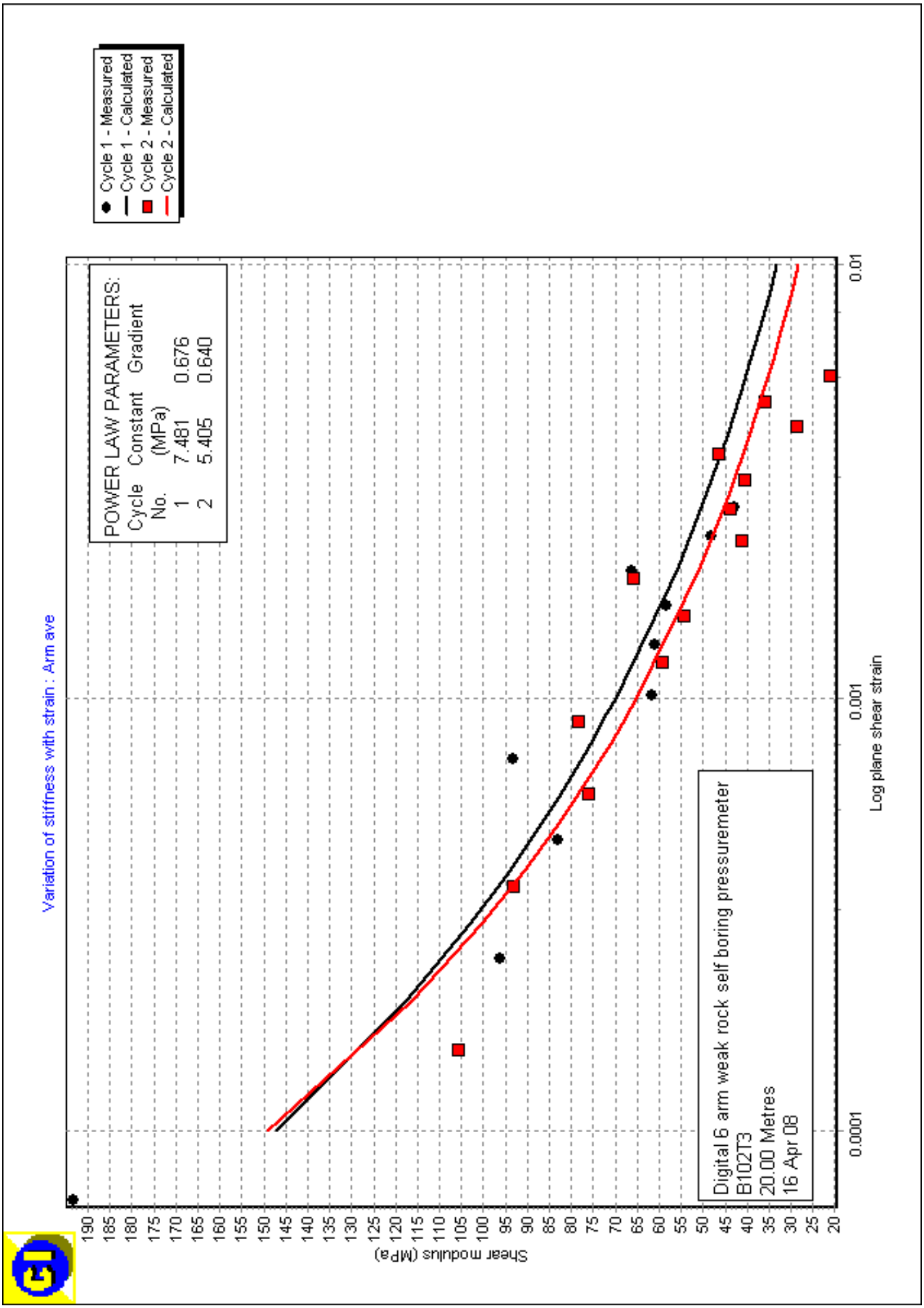

Palmer 1972 (contraction) : Arm ave
RESULTS:
2Cu : 643.6kPa
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Shear stress (kPa)
Shear strain (%)

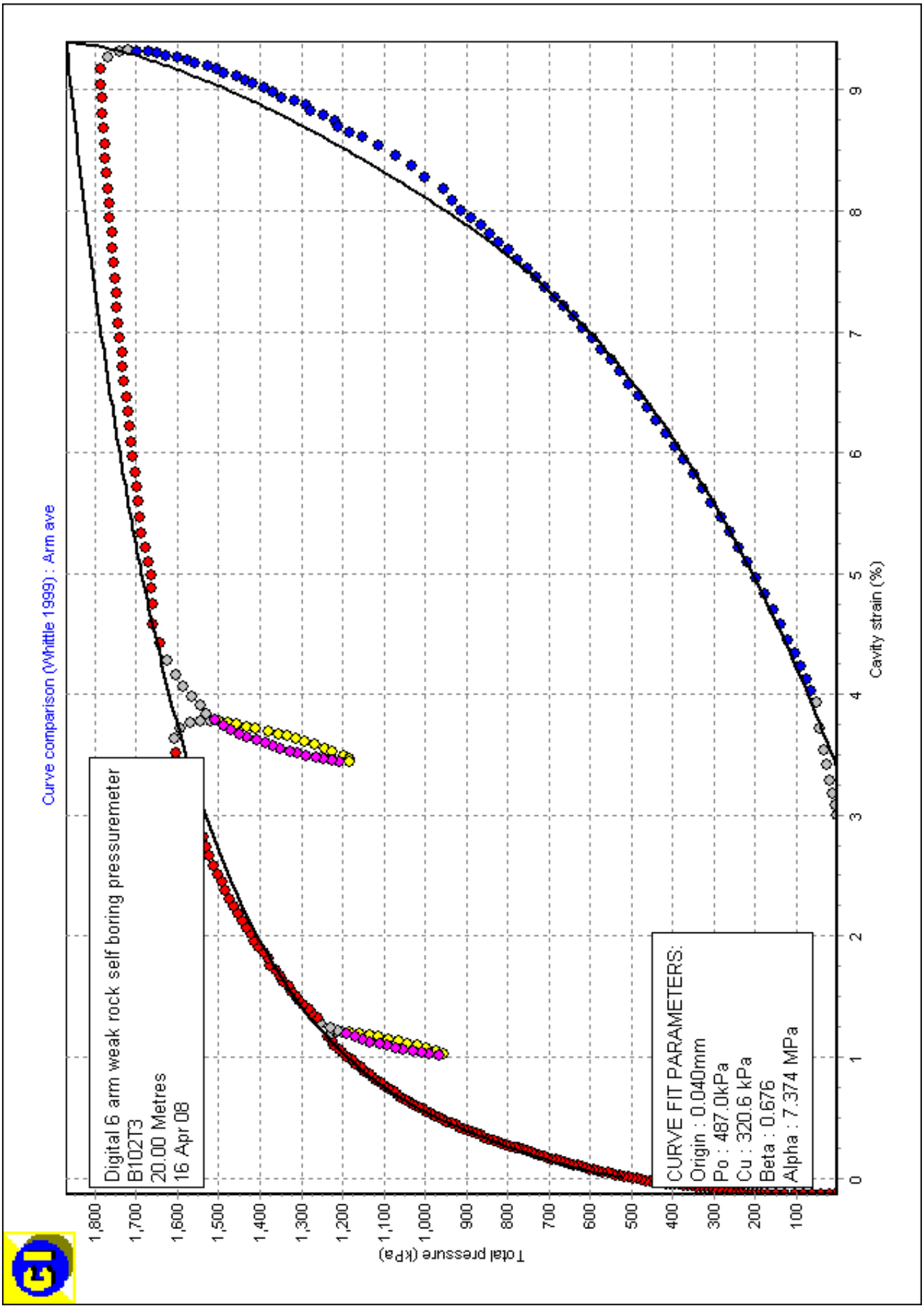

Shear modulus from unload/reload cycles Loop 1 : Arm ave
RESULTS:
Gur : 65.5MPa
Cycle mid-point:
Cavity strain : 1.034%
Total stress : 1077kPa
Size of cycle :
Shear strain : 0.369%
Total stress : 242kPa
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Total pressure (kPa)
Radial Displacement (mm)


Shear modulus from unload/reload cycles Loop 2 : Arm ave
RESULTS:
Gur : 49.0MPa
Cycle mid-point:
Cavity strain : 3.533%
Total stress : 1344kPa
Size of cycle :
Shear strain : 0.655%
Total stress : 322kPa
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
Total pressure (kPa)
Radial Displacement (mm)


Bolton and Whittle (1999) Loop 1 : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
RESULTS:
Gradient (beta) : 0.676
Intercept (n) : 11.060MPa
Shear stress constant : 7.481MPa
Ln[Radial stress]
Ln[shear strain]
Source data - Loop 1
Total pressure (kPa)
Radial Displacement (mm)


Bolton and Whittle (1999) Loop 2 : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
RESULTS:
Gradient (beta) : 0.640
Intercept (n) : 8.449MPa
Shear stress constant : 5.405MPa
Ln[Radial stress]
Ln[shear strain]
Source data - Loop 2
Total pressure (kPa)
Radial Displacement (mm)


Cycle 1 - Measured
Cycle 1 - Calculated
Cycle 2 - Measured
Cycle 2 - Calculated
POWER LAW PARAMETERS:
Cycle No. Constant (MPa) Gradient
1 7.481 0.676
2 5.405 0.640
Variation of stiffness with strain : Arm ave
Shear modulus (MPa)
Log plane shear strain
0.0001
0.001
0.01
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08


Curve comparison (Whittle 1999) : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T3
20.00 Metres
16 Apr 08
CURVE FIT PARAMETERS:
Origin : 0.040mm
Po : 487.0kPa
Cu : 320.6 kPa
Beta : 0.676
Alpha : 7.374 MPa
Total pressure (kPa)
Cavity strain (%)

6 ARM SELF BORING PRESSUREMETER **TEST RECORD SHEET**

Site	Date	Day	Borehole	Test	Depth to Test Centre (below ground level)
DENMARK PLACE	16/4/08	WED	102	3	20.0

Weather:- FINE | Material:- LONDON CLAY.

Water table	Drilling Start	Drilling End	Distance	Drill Rate	Ram Pressure
	09:40	10:10	1m	1m/30min	80BARS

Ground level :- | Orientation:-

Water Press.	Inst.OD	Shoe OD	Cutter Type	Cutter position	Probe Reference
320kPa	88.1	89.1	73RR	5mm	'Mary'

Drilling Remarks:-

Strain Rate	Press. Rate	Cycle Time	Gas Bottle	Battery	PPC Type	Max Pressure Cap.
1%/min	4(L)	6 SEC	200 BAR	12.56	TAB	10MPa.

Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	PPC A	PPC B	TPC	Date:-
-113	91	-60	36	-88	130	-1036	-923	-24??	Ground Level Zeros
									Pre-drilling Zeros
-125	92	-35	36	-102	106	-982	-878	-2452	Post-drilling Zeros
									Pre-test Zeros
									Ground Level Zeros

Test starts:- 10:10.

Line	Notes
407	1235kPa LOOP 1. PES.
473	LOOP 2, PESS.
554	unload. PES.

Test ends:- 10:46. | Max Press:- 1786kPa.

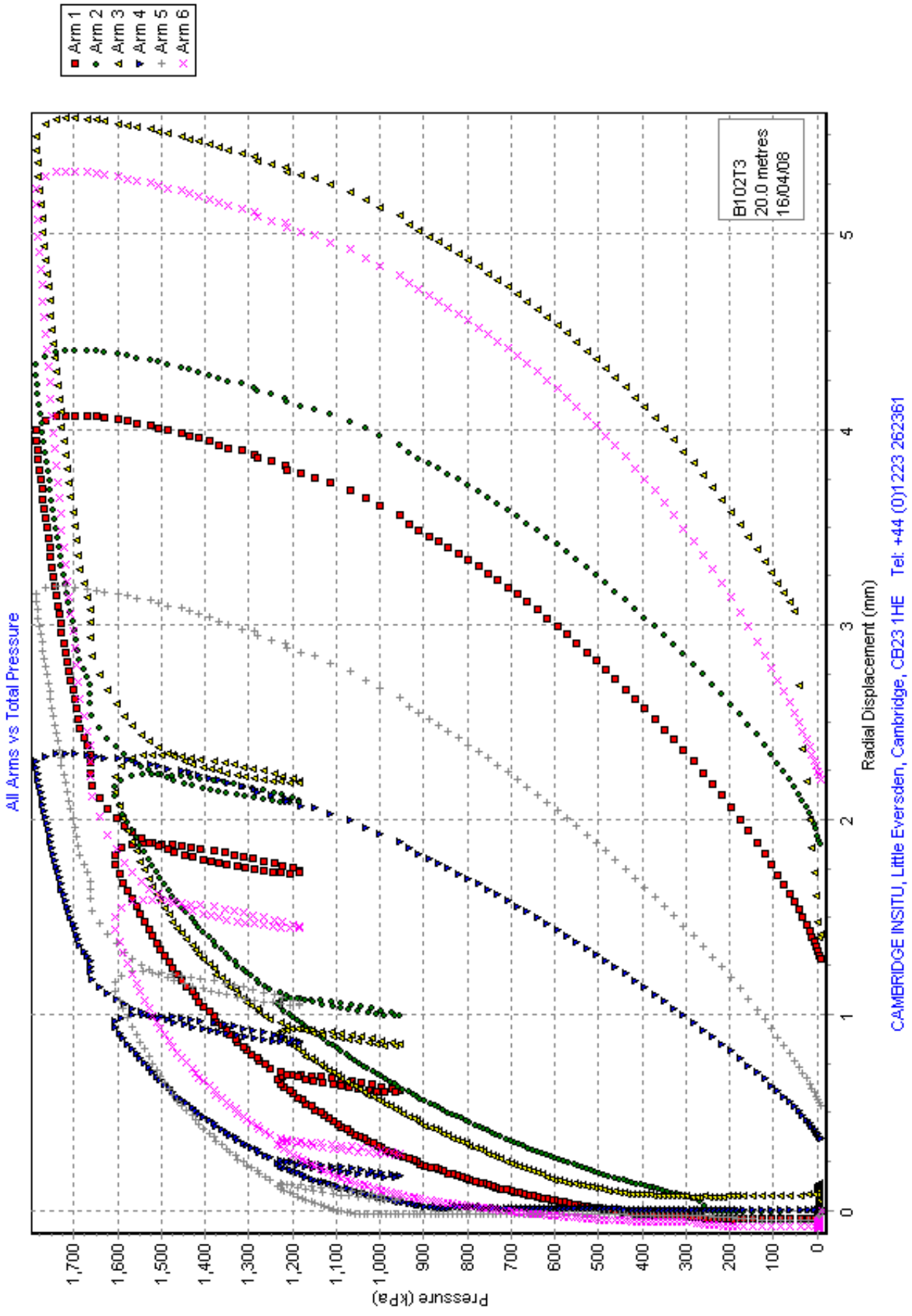
Calibrated Data details:

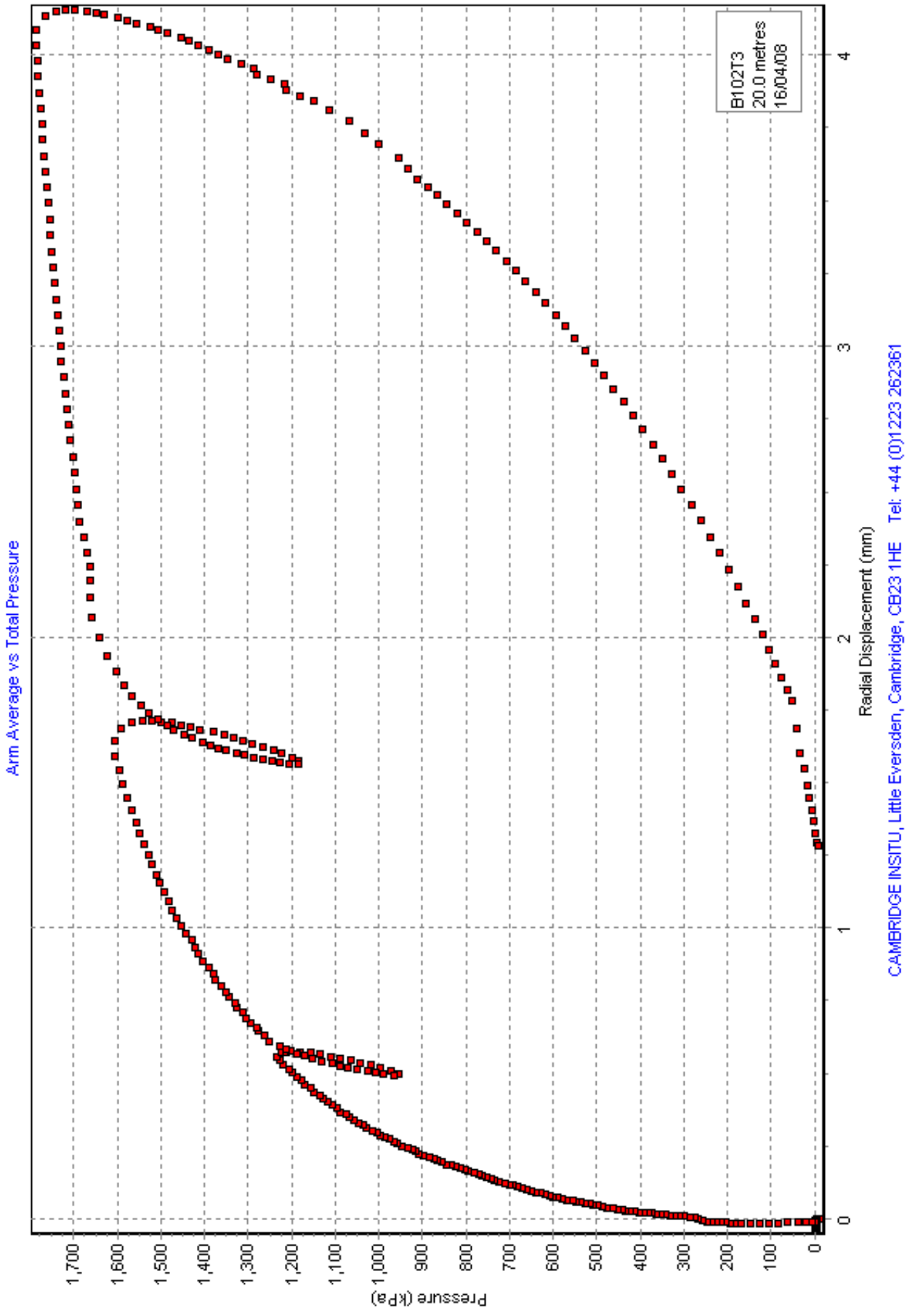
Mem. Correction.	Mem. Compression.	Strain Cals.	Pressure Cals.
W01307	W0730T2	10/4/08	11/4/08

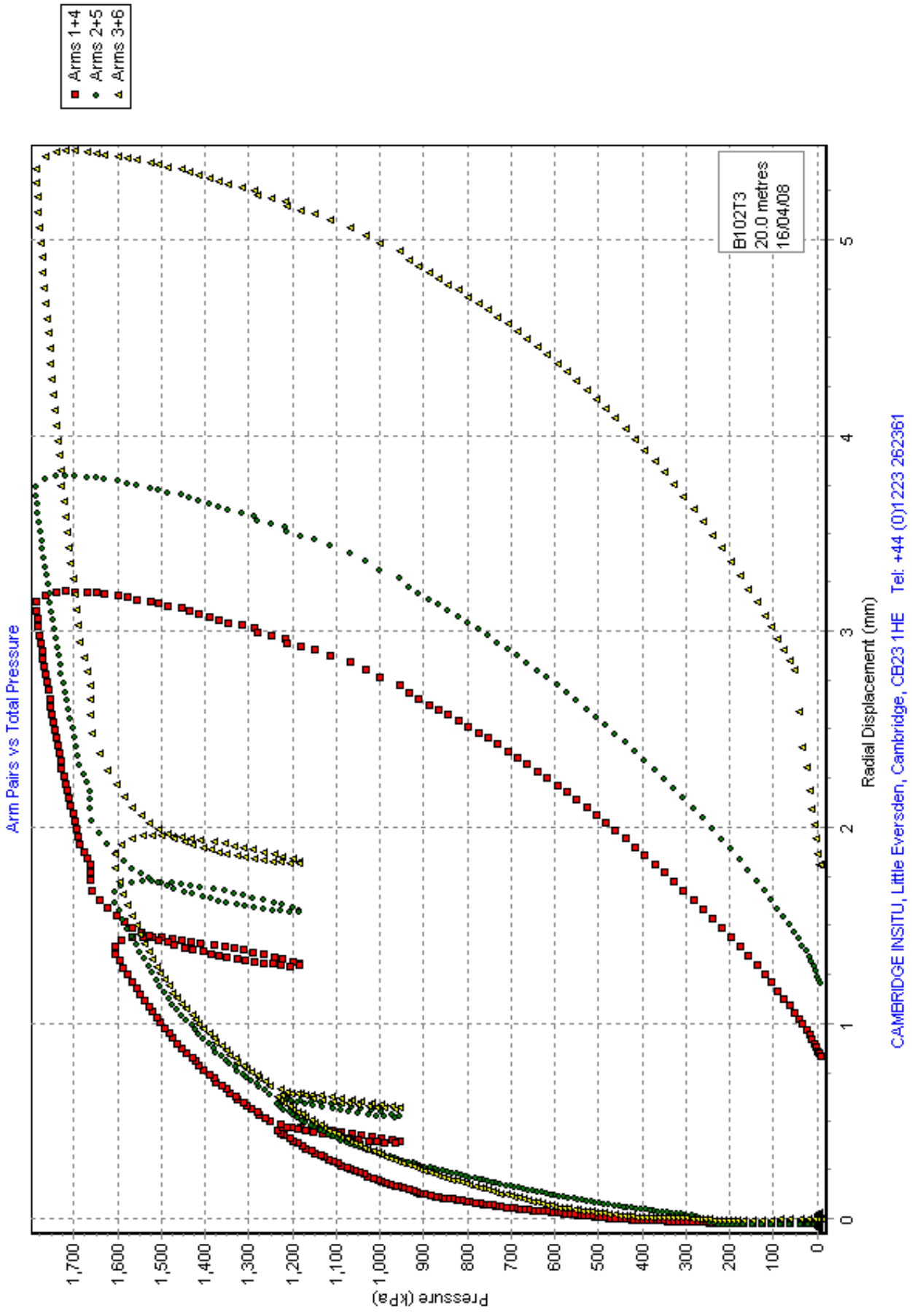
TEST REMARKS:

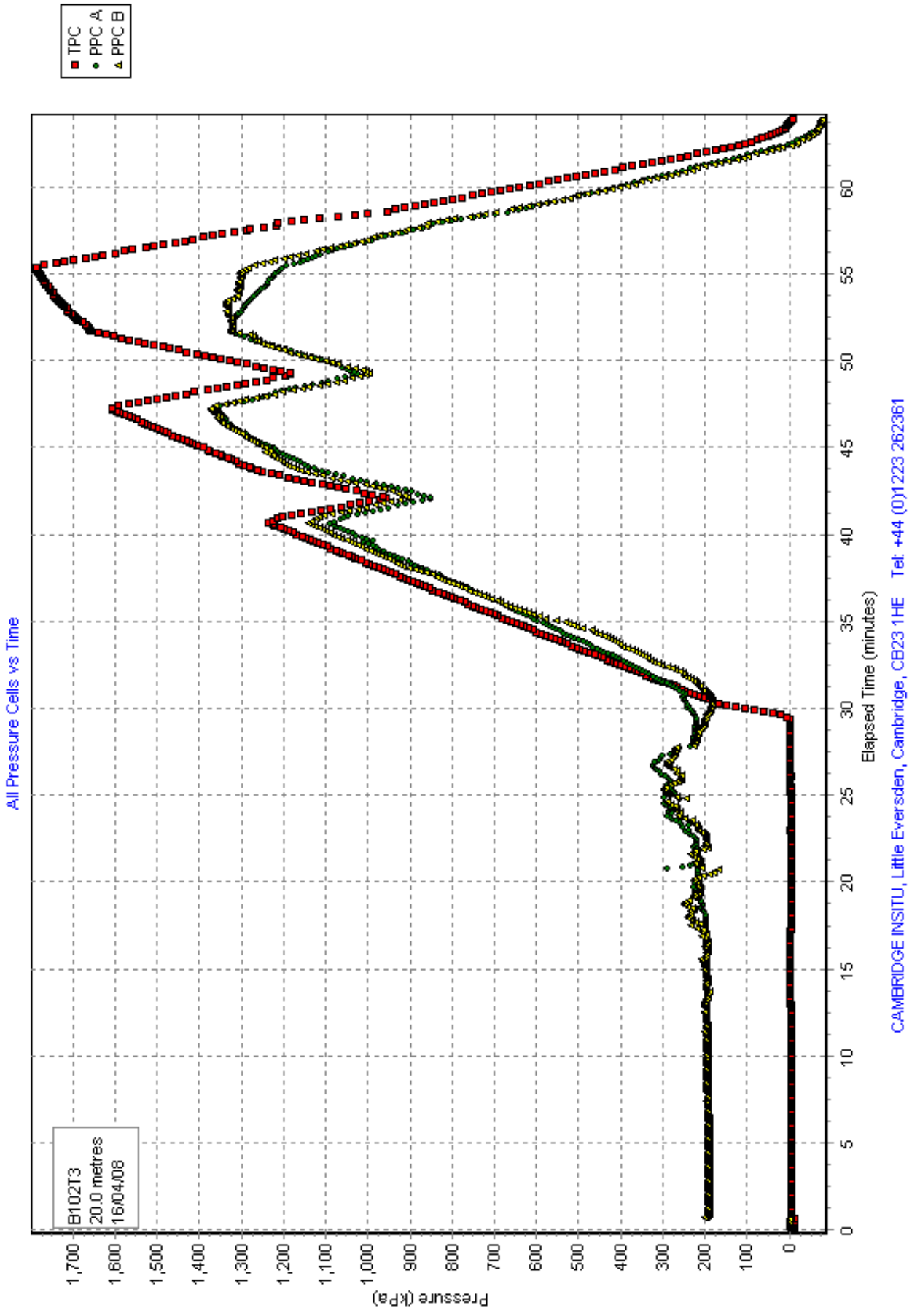
Driller: DAN

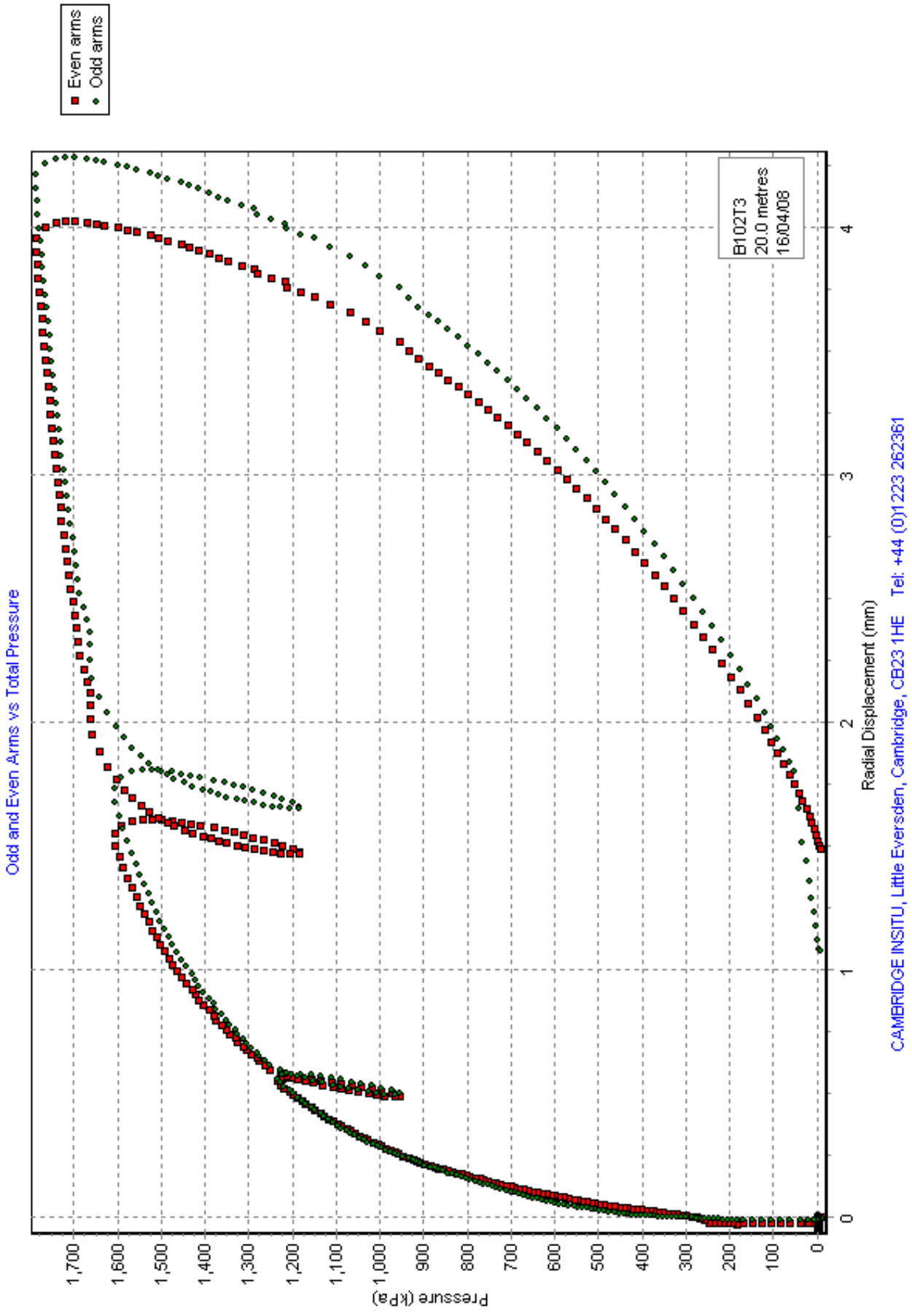
Tester: RW.


Arm 1
Arm 2
Arm 3
Arm 4
Arm 5
Arm 6
All Arms vs Total Pressure
B102T3
20.0 metres
16/04/08
Pressure (kPa)
Radial Displacement (mm)
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361


Arm Average vs Total Pressure
B102T3
20.0 metres
16/04/08
Pressure (kPa)
Radial Displacement (mm)
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361


Arms 1+4
Arms 2+5
Arms 3+6
B102T3
20.0 metres
16/04/08
Arm Pairs vs Total Pressure
Pressure (kPa)
Radial Displacement (mm)
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361


TPC
PPC A
PPC B
All Pressure Cells vs Time
B102T3
20.0 metres
16/04/08
Pressure (kPa)
Elapsed Time (minutes)
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361


Even arms
Odd arms
Odd and Even Arms vs Total Pressure
B102T3
20.0 metres
16/04/08
Pressure (kPa)
Radial Displacement (mm)
CAMBRIDGE INSITU, Little Eversden, Cambridge, CB23 1HE Tel: +44 (0)1223 262361

B102T4 - SUMMARY OF RESULTS
[File made with WinSitu Version 1.20.1.1]

[DETAILS OF TEST]
Project : 36237
Site : Denmark Place
Borehole : BH102
Test name : B102T4
Test date : 16 Apr 08
Test depth : 26.00 Metres
Water table : 5.6 Metres
Ambient PWP : 200.1 kPa
Material : London Clay
Probe : Digital 6 arm weak rock self boring pressuremeter
Diameter : 88.1 mm
Data analysed using average arm displacement curve
A non-linear analysis of the rebound cycles has been carried out
The file includes results from a curve fitting analysis

Analysed by RWW on 17 Apr 08

Remarks:

[RESULTS FOR CAVITY REFERENCE PRESSURE]
Strain Origin (mm) : "Arm ave=0.020"
Po from Marsland & Randolph (kPa) : "Arm ave=447.2"
Po from Lift off (kPa) : "Arm ave=472.6"
PWP versus Total Stress (kPa) : "PPC Ave=332.1"
Best estimate of Po (kPa) : "Arm ave=566.0"

[UNDRAINED STRENGTH PARAMETERS]
Gibson & Anderson 1961 - Cu (kPa) : "Arm ave=287.0"
Limit pressure (kPa) : "Arm ave=2336"
Jefferies 1988 - Cu (kPa) : "Arm ave=288.5"
Undrained yield stress (kPa) : "Arm ave=680.3"

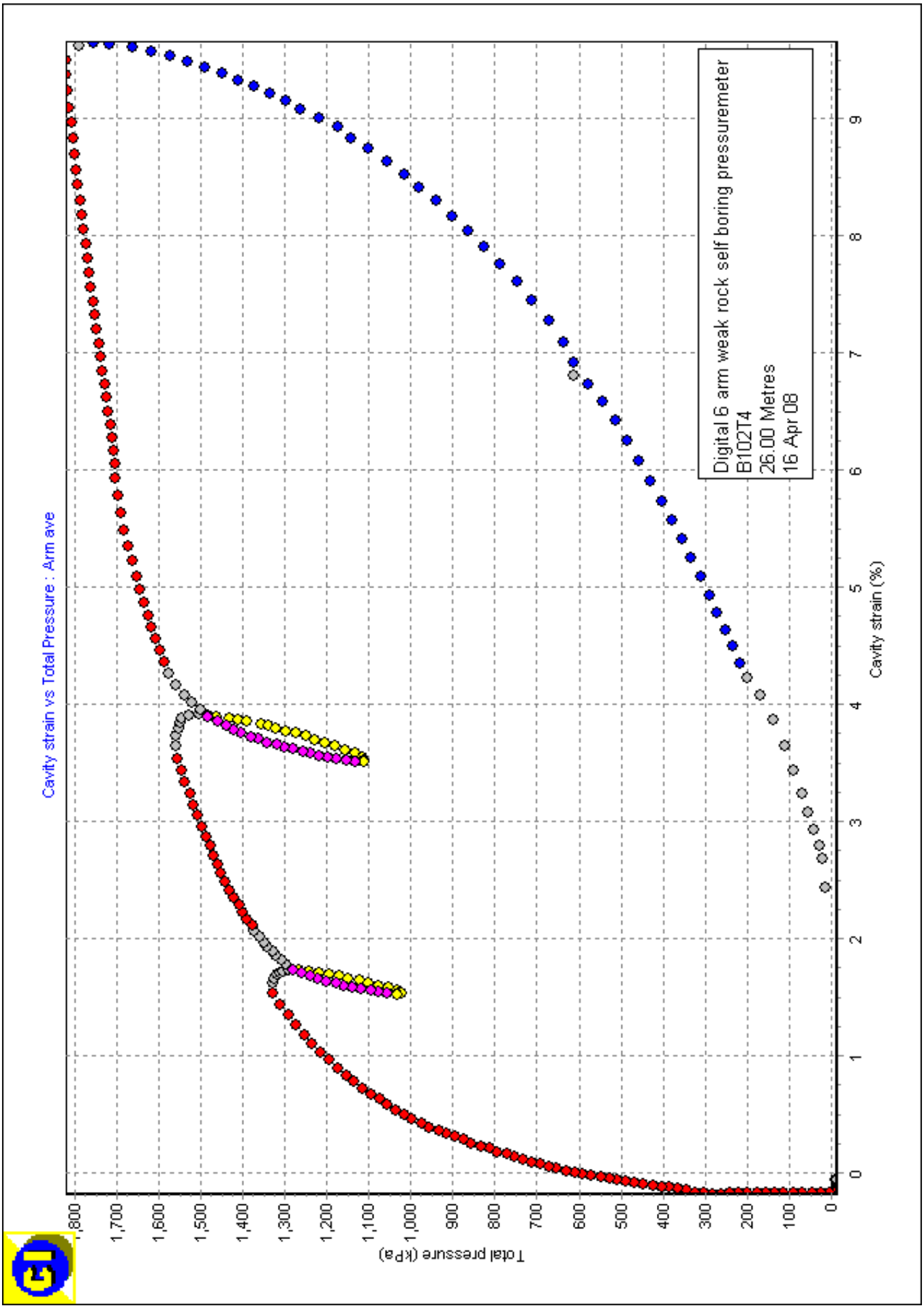
[LINEAR INTERPRETATION OF SHEAR MODULUS G]
Initial slope shear modulus (MPa) :"Arm ave=69.3"

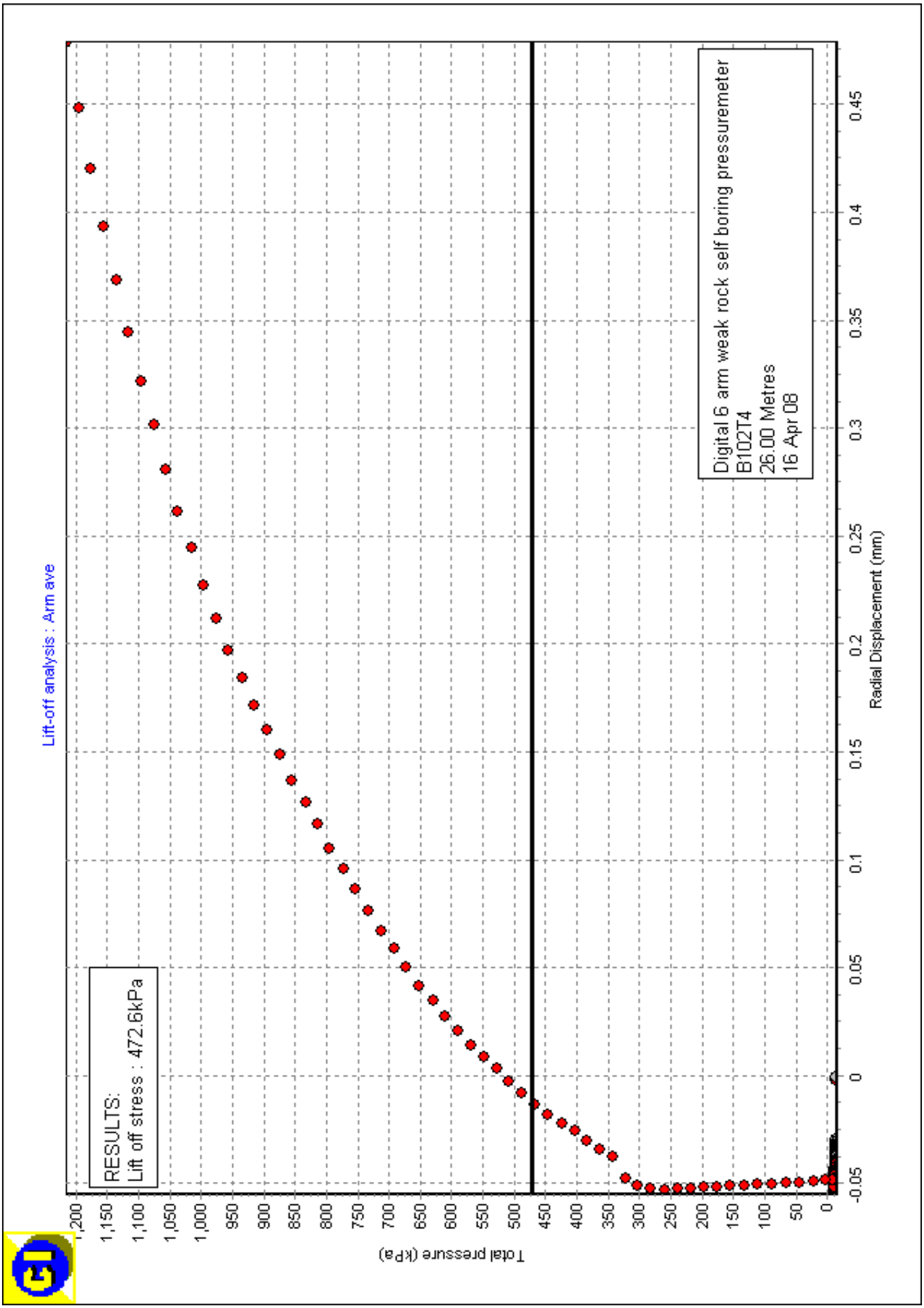
Axis	Loop No	Value (MPa)	Mean Strain (%)	Mean Pc (kPa)	dE (%)	dPc (kPa)
Arm ave	1	62.7	1.644	1152	0.413	259
Arm ave	2	49.8	3.726	1301	0.763	381

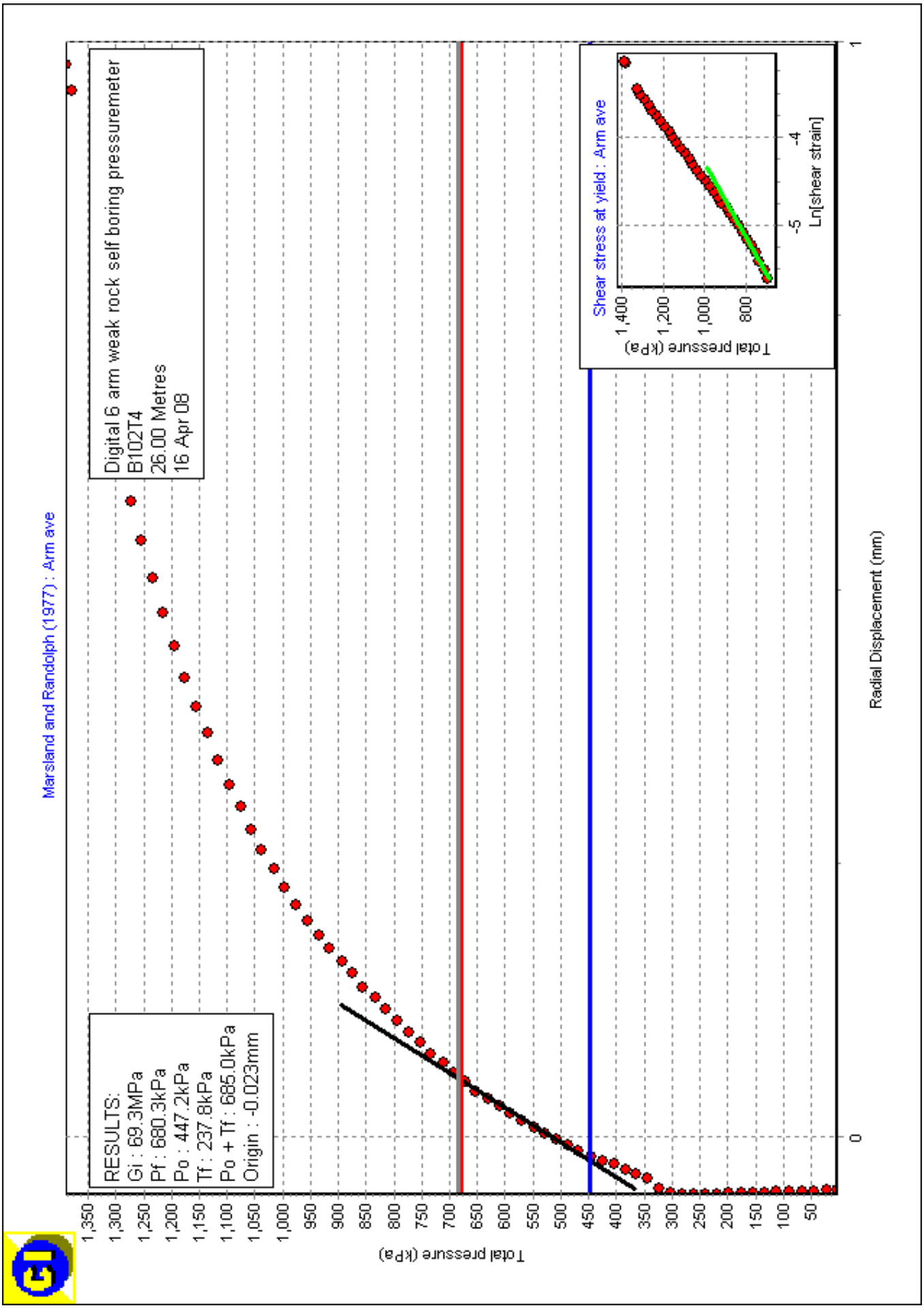
[NON LINEAR INTERPRETATION OF SECANT SHEAR MODULUS]

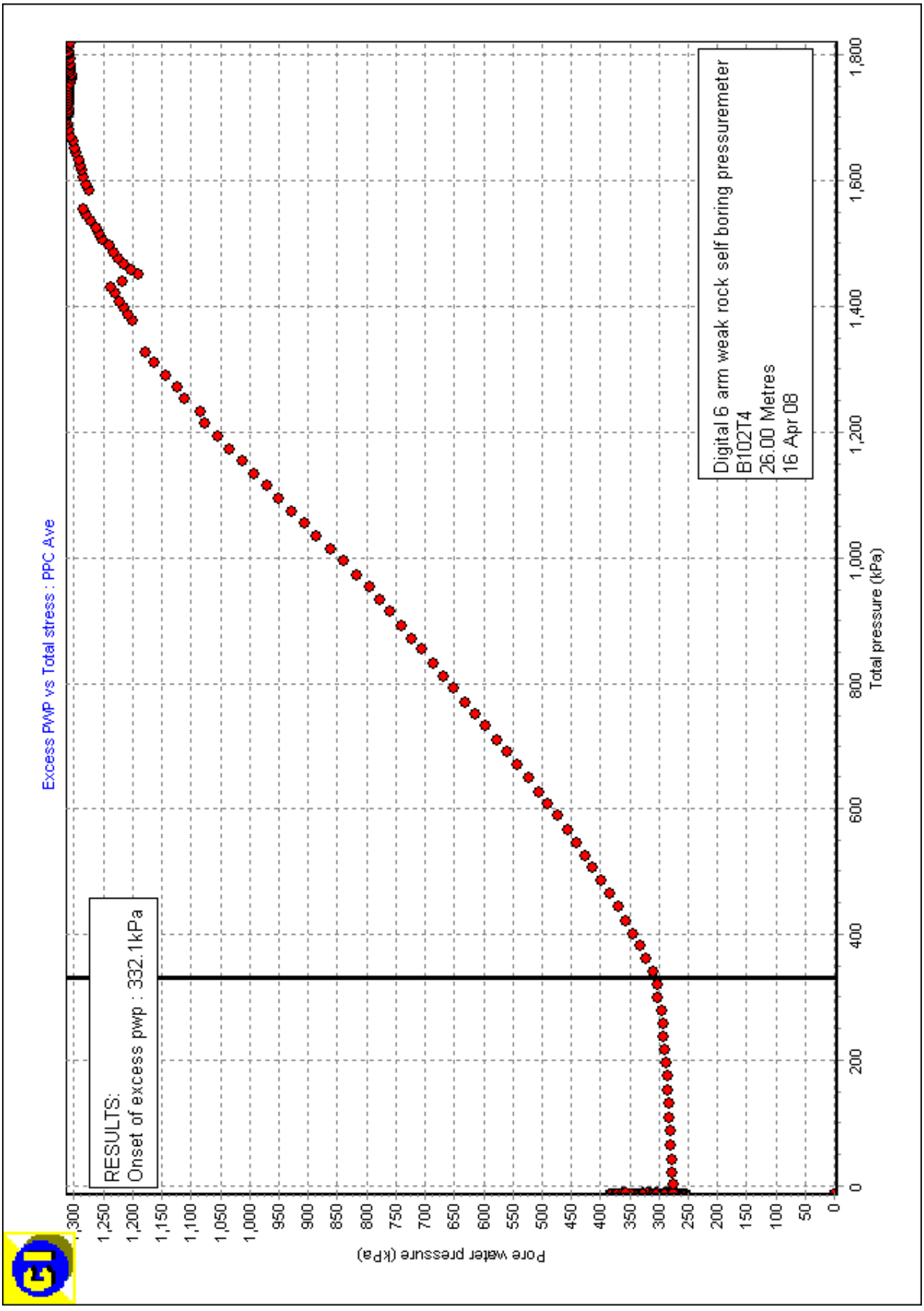
Axis	Loop No	Intercept (MPa)	Alpha (MPa)	Gradient
Arm ave	1	10.021	6.662	0.665
Arm ave	2	9.973	6.566	0.658

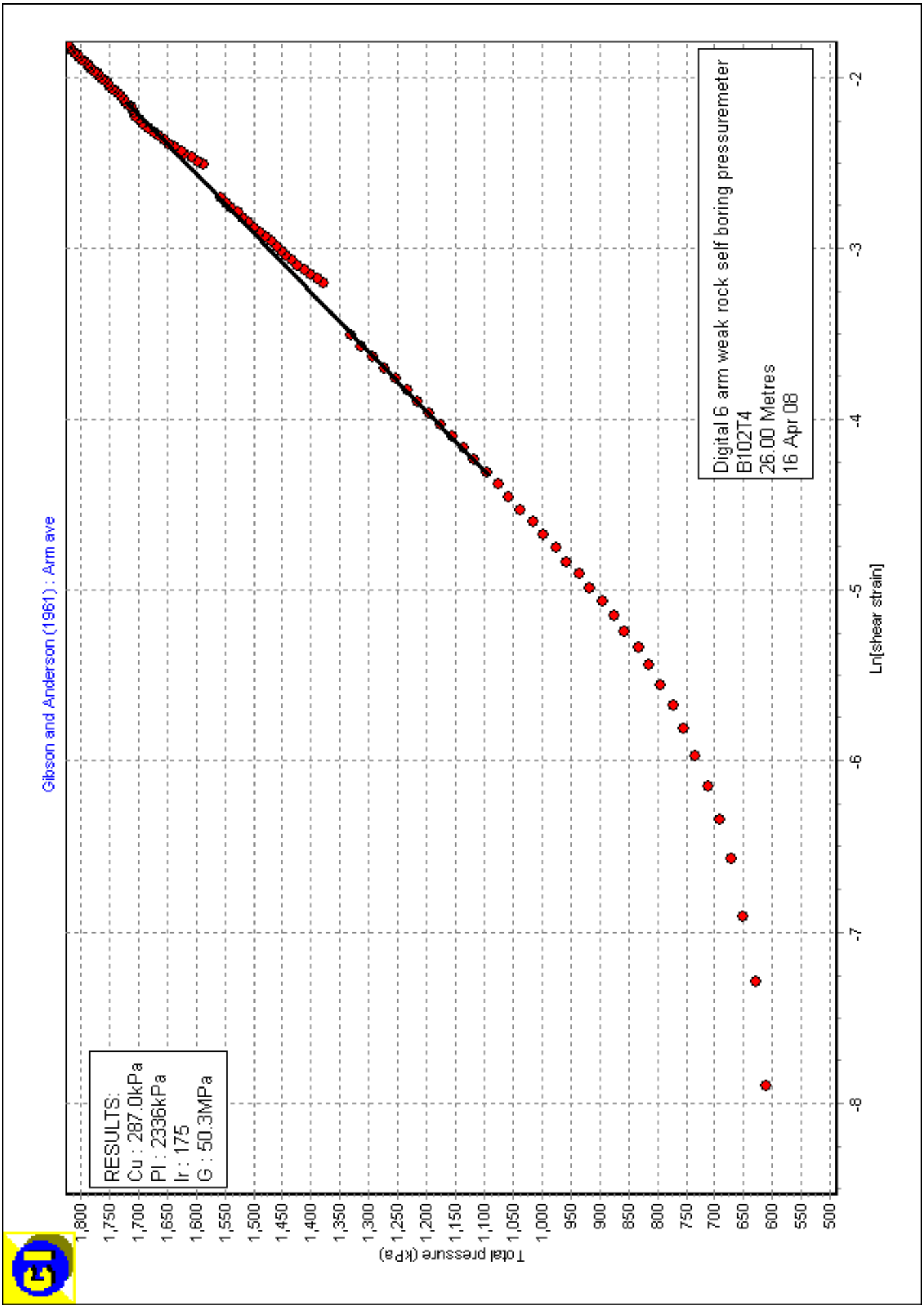
[PARAMETERS USED FOR UNDRAINED CURVE MODELLING]
Axis is Arm ave
Strain Origin (mm) : 0.02
Po (kPa) : 566
Cu (kPa) : 287.0
Limit pressure (kPa) : 2336
Non-linear exponent : 0.658
Calculated alpha (MPa) : 6.122
G at yield (MPa) : 30.0

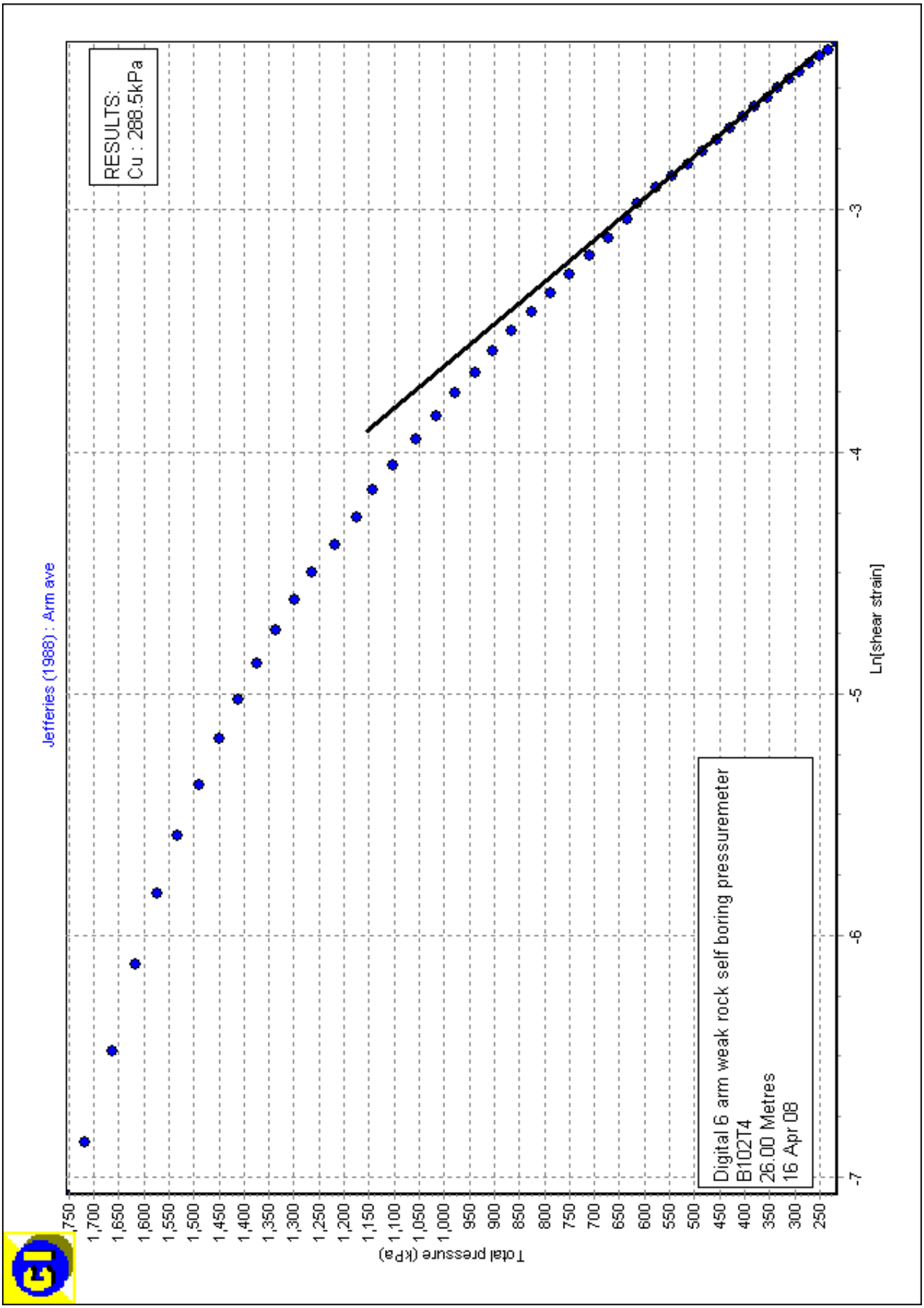

Cavity strain vs Total Pressure : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Total pressure (kPa)
Cavity strain (%)
0
100
200
300
400
500
600
700
800
900
1,000
1,100
1,200
1,300
1,400
1,500
1,600
1,700
1,800
0
1
2
3
4
5
6
7
8
9

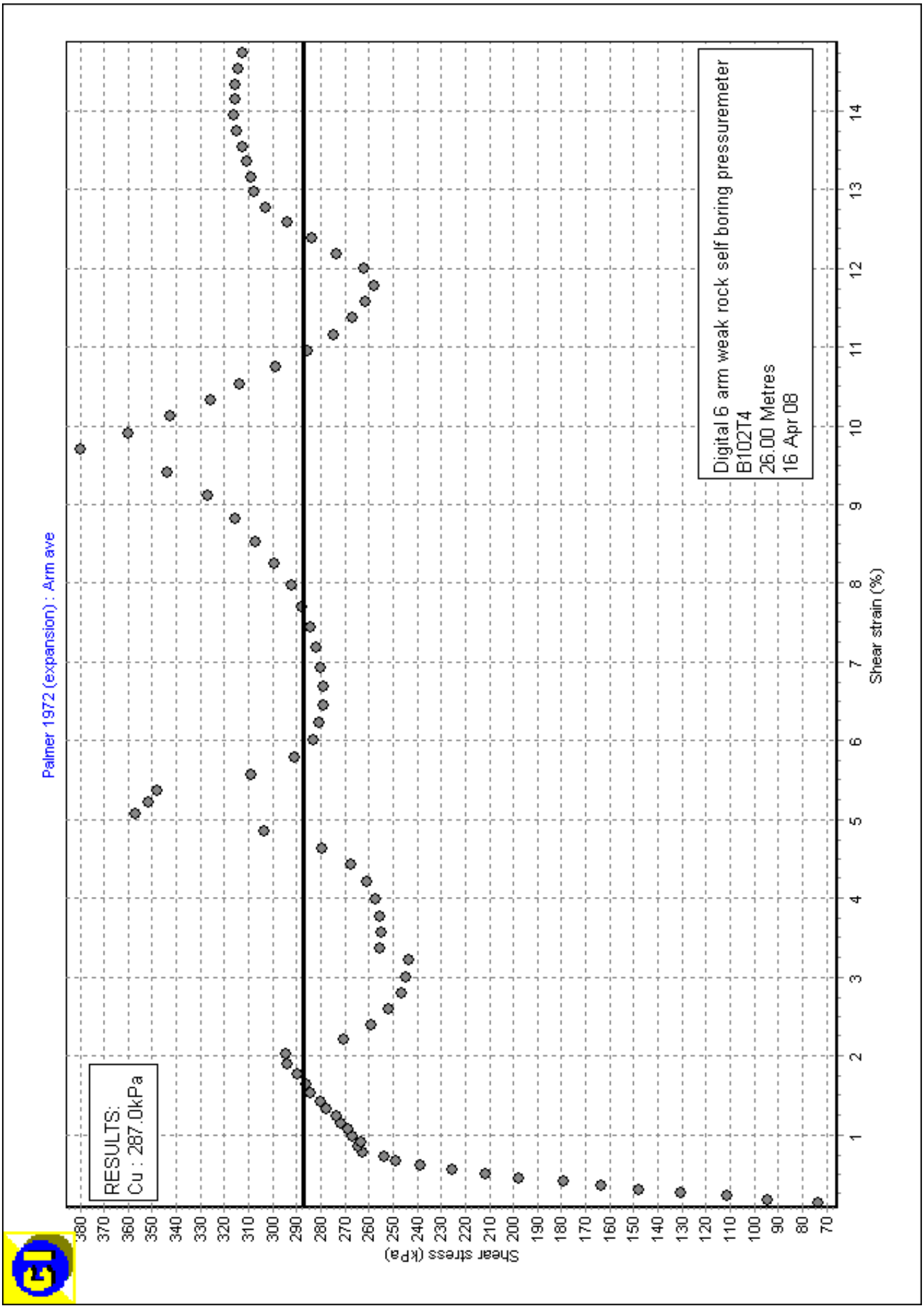

Lift-off analysis : Arm ave
RESULTS:
Lift off stress : 472.6kPa
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Total pressure (kPa)
Radial Displacement (mm)

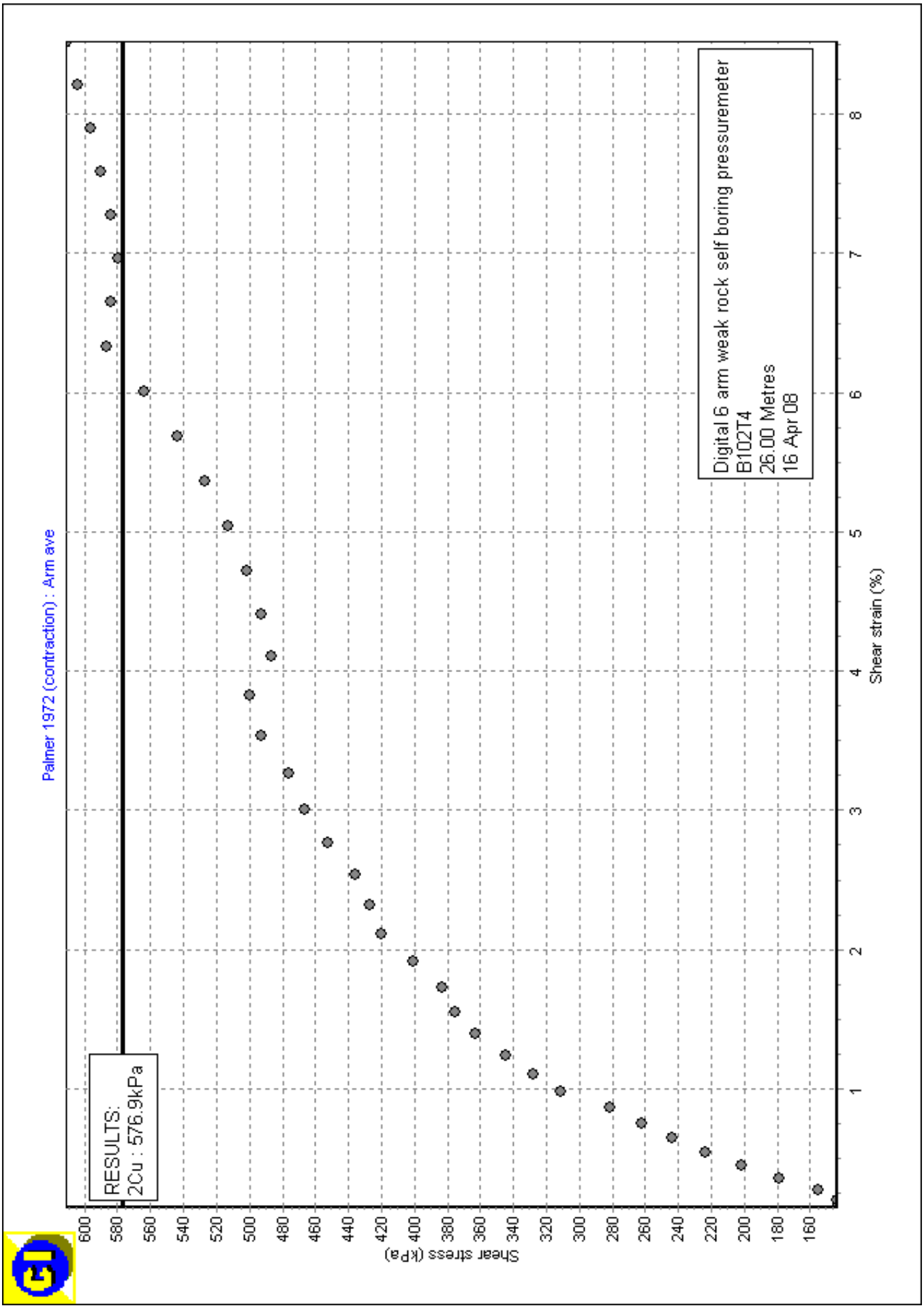

Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
RESULTS:
Gi : 69.3MPa
Pf : 680.3kPa
Po : 447.2kPa
Tf : 237.8kPa
Po + Tf : 685.0kPa
Origin : -0.023mm
Marsland and Randolph (1977) : Arm ave
Total pressure (kPa)
Radial Displacement (mm)
Shear stress at yield : Arm ave
Total pressure (kPa)
Ln[shear strain]

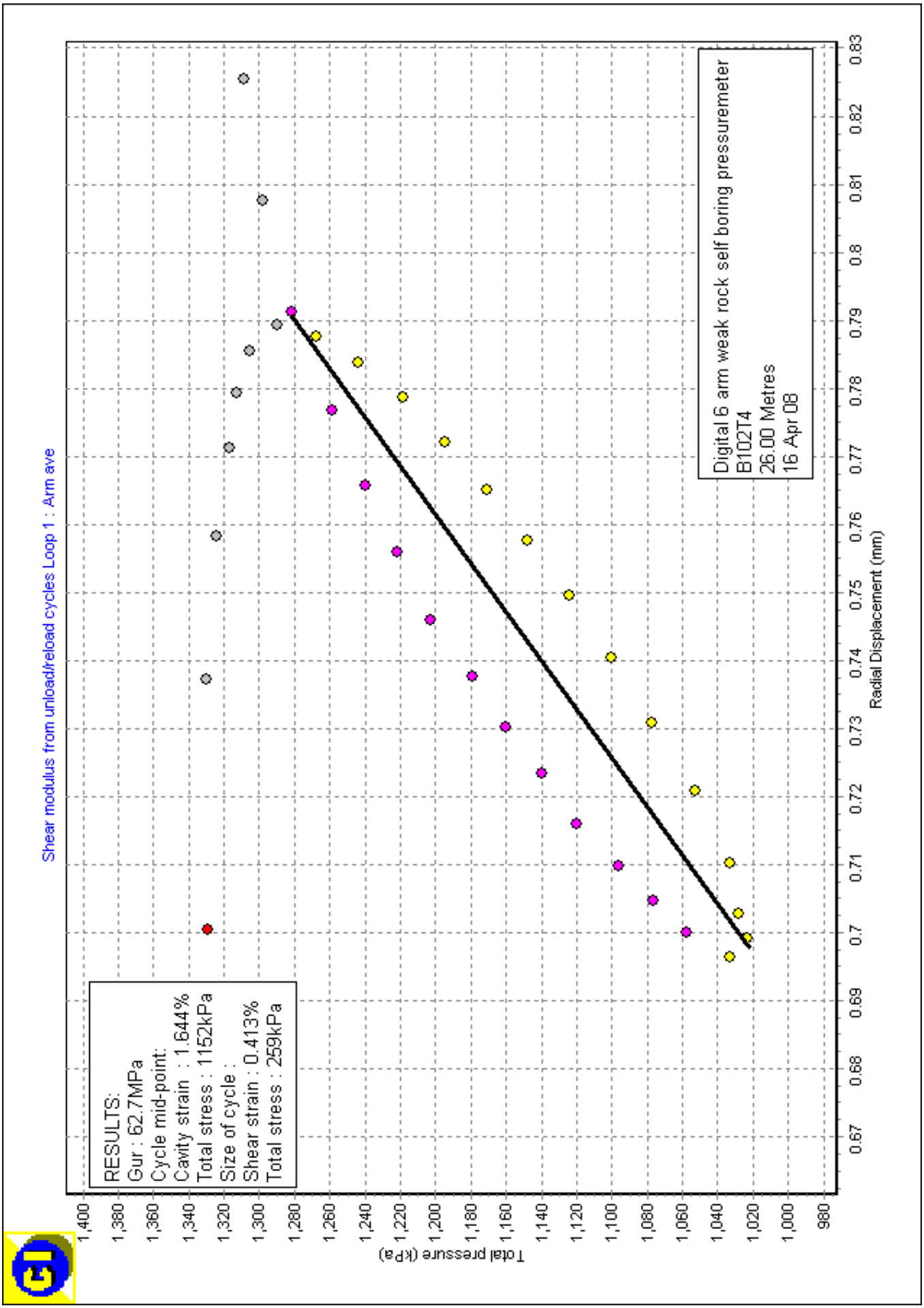

Excess PWP vs Total stress : PPC Ave
RESULTS:
Onset of excess pwp : 332.1kPa
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Pore water pressure (kPa)
Total pressure (kPa)
0
50
100
150
200
250
300
350
400
450
500
550
600
650
700
750
800
850
900
950
1,000
1,050
1,100
1,150
1,200
1,250
1,300
0
200
400
600
800
1,000
1,200
1,400
1,600
1,800

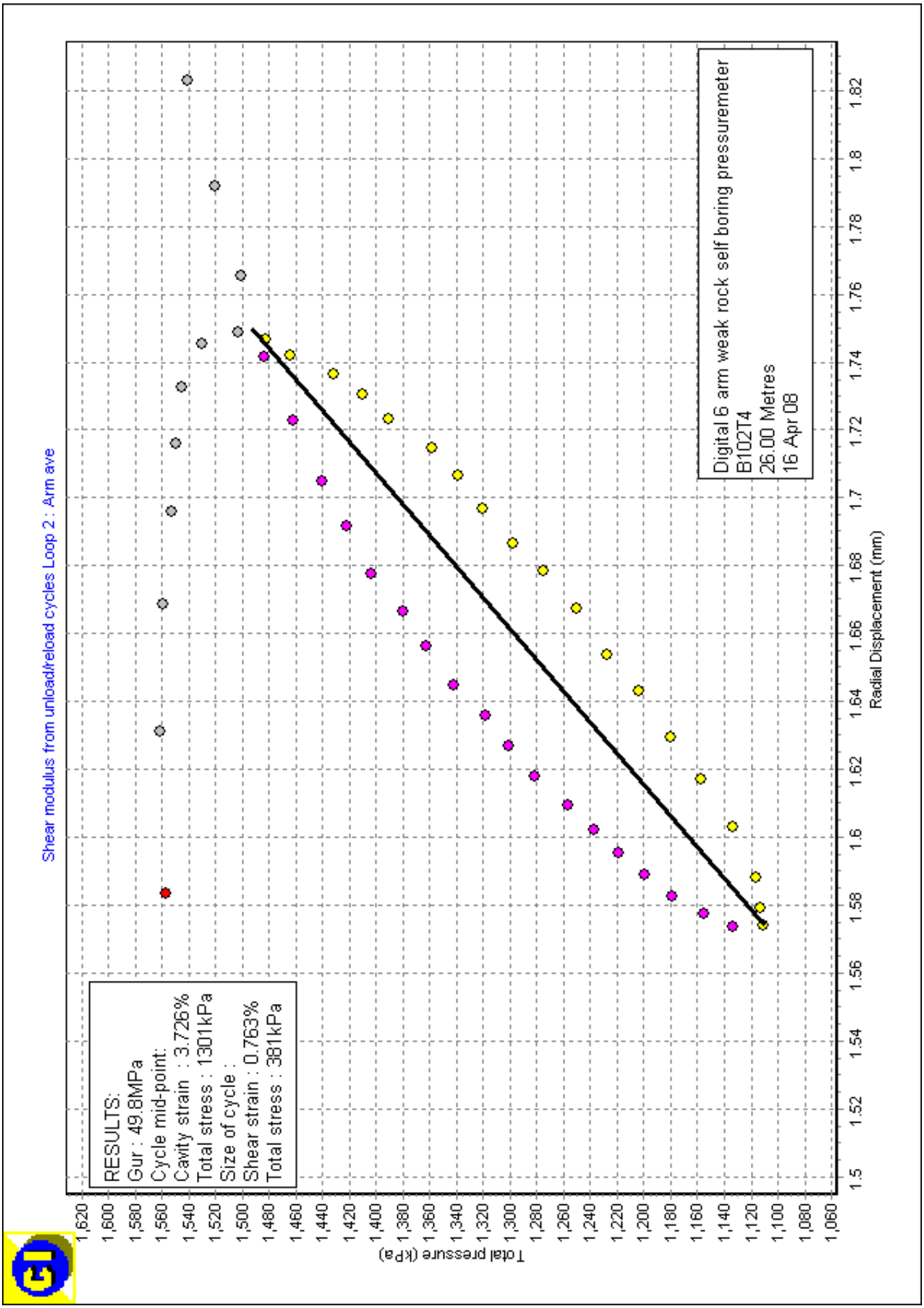

Gibson and Anderson (1961) : Arm ave
RESULTS:
Cu : 287.0kPa
PI : 2336kPa
Ir : 175
G : 50.3MPa
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Total pressure (kPa)
Ln[shear strain]

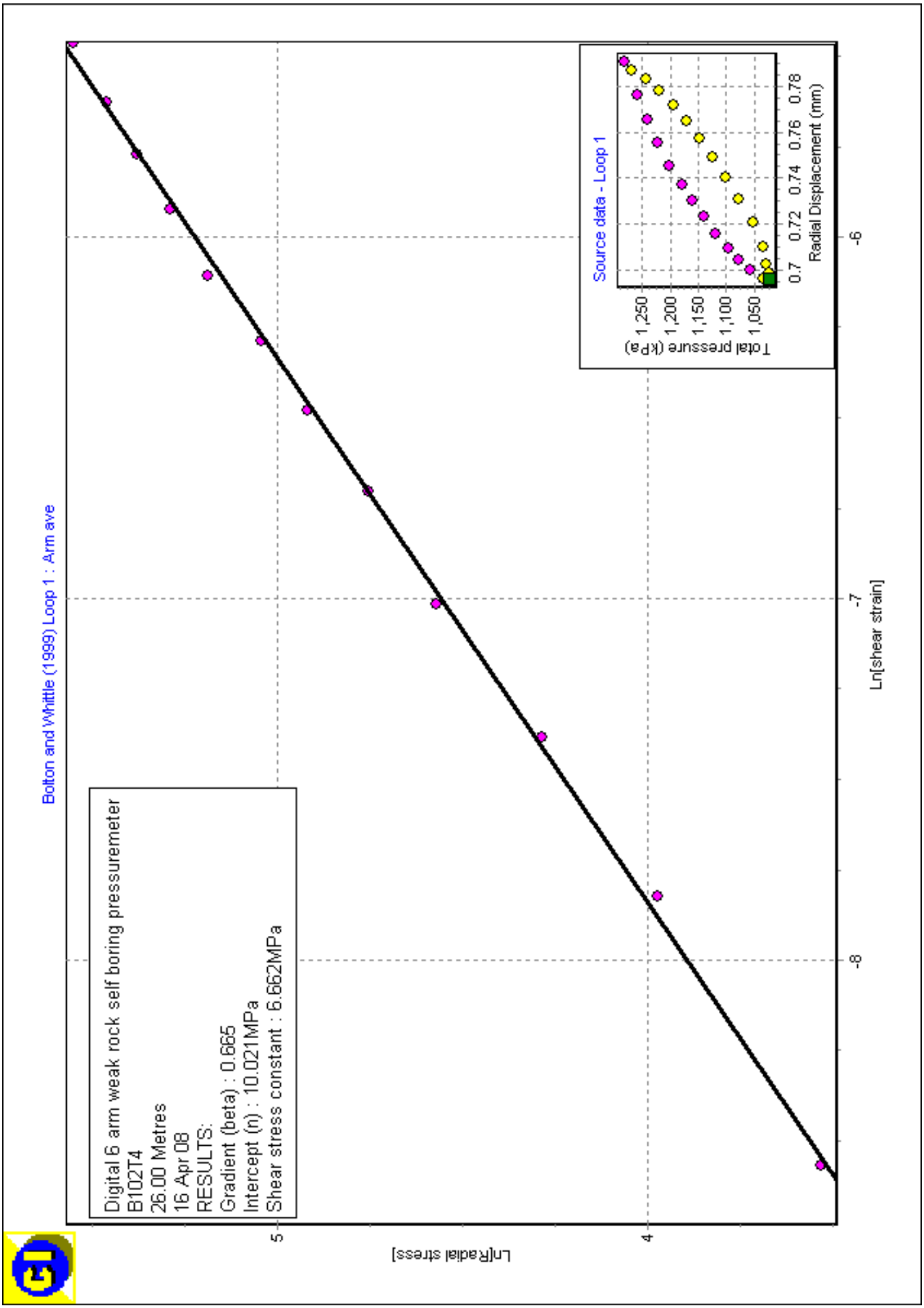

RESULTS:
Cu : 288.5kPa
Jefferies (1988) : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Total pressure (kPa)
Ln[shear strain]

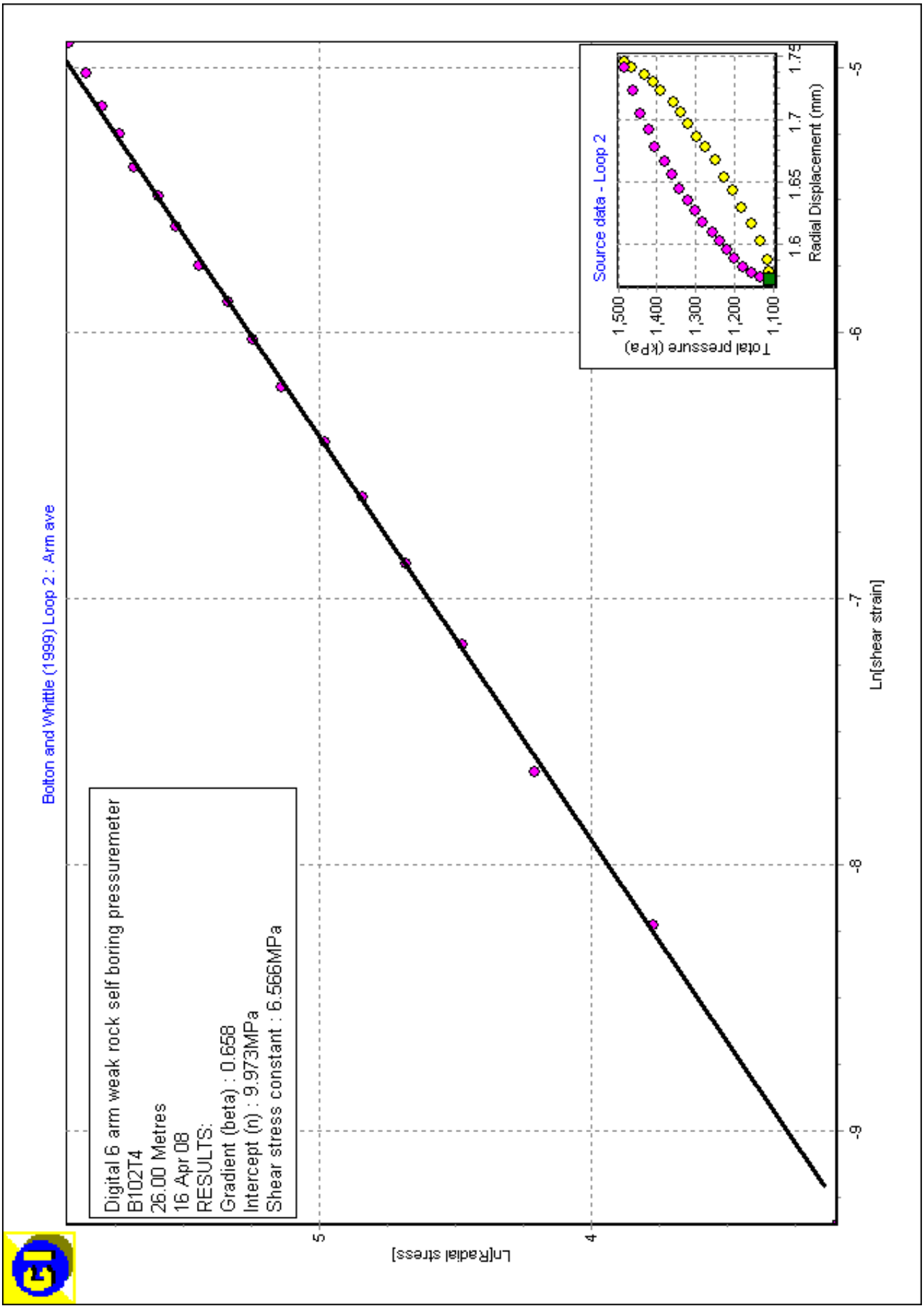

Palmer 1972 (expansion) : Arm ave
RESULTS:
Cu : 287.0kPa
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Shear stress (kPa)
Shear strain (%)

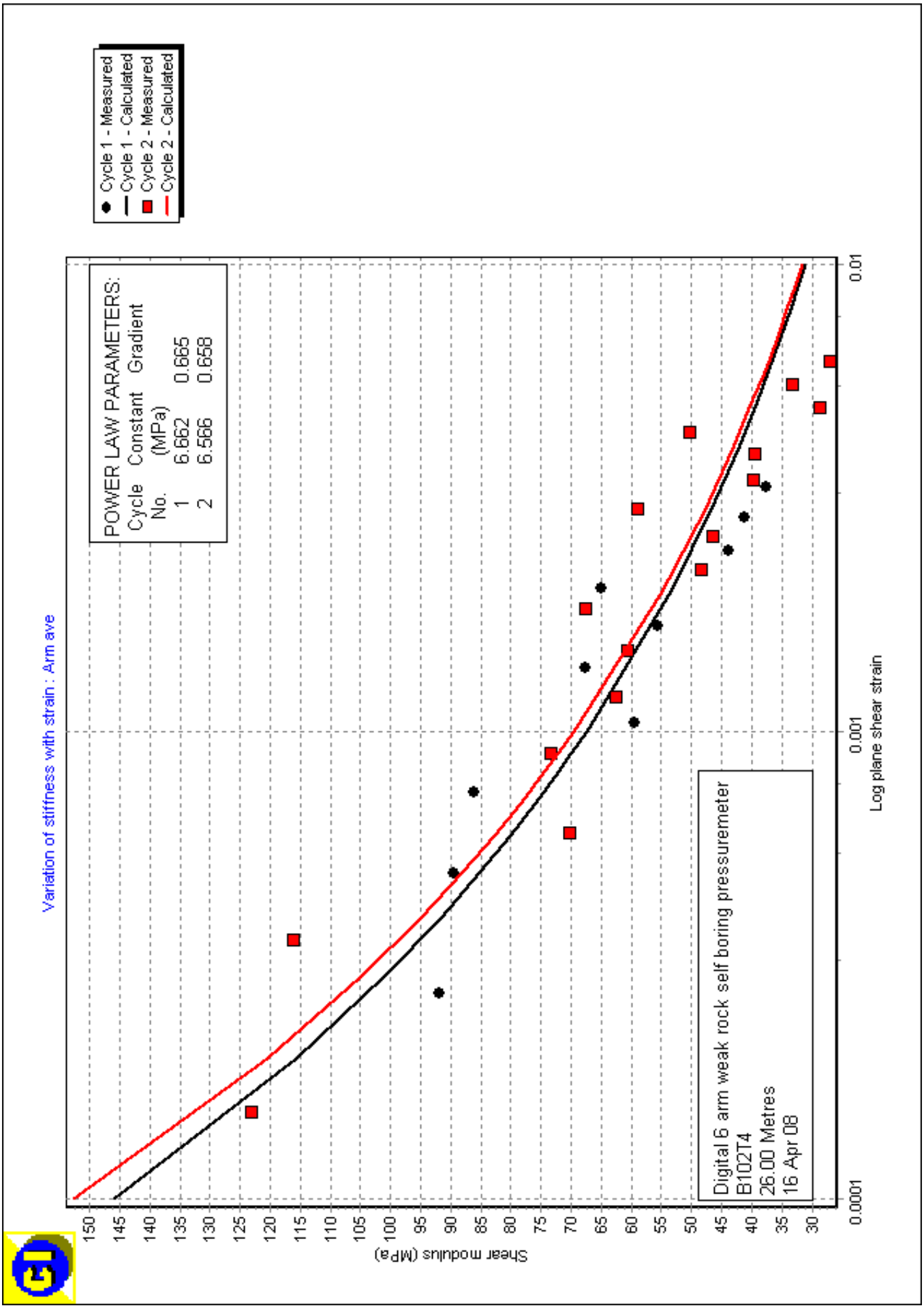

Palmer 1972 (contraction) : Arm ave
RESULTS:
2Cu : 576.9kPa
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Shear stress (kPa)
Shear strain (%)

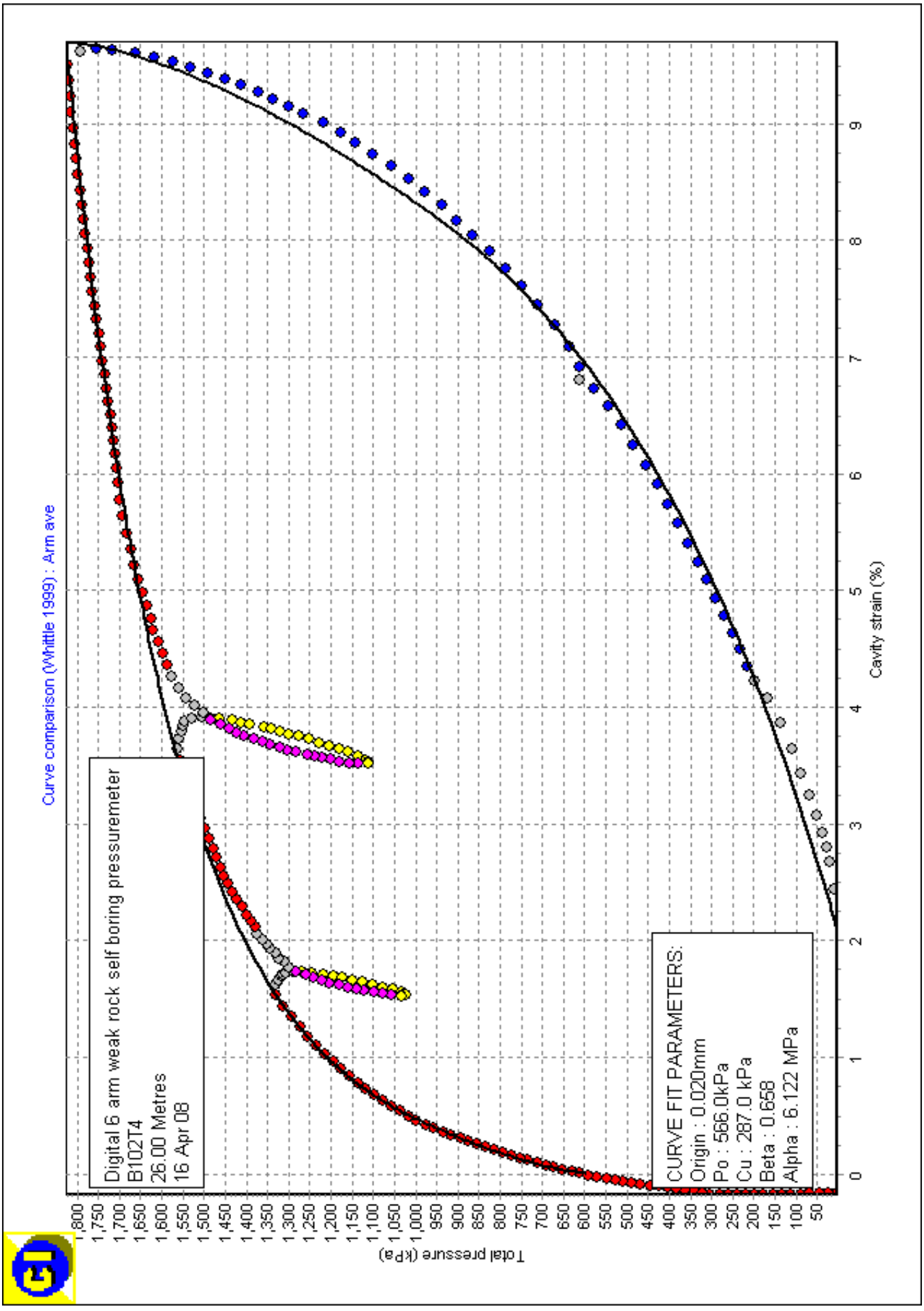

Shear modulus from unload/reload cycles Loop 1 : Arm ave
RESULTS:
Gur : 62.7MPa
Cycle mid-point:
Cavity strain : 1.644%
Total stress : 1152kPa
Size of cycle :
Shear strain : 0.413%
Total stress : 259kPa
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Total pressure (kPa)
Radial Displacement (mm)


Shear modulus from unload/reload cycles Loop 2 : Arm ave
RESULTS:
Gur : 49.8MPa
Cycle mid-point:
Cavity strain : 3.726%
Total stress : 1301kPa
Size of cycle :
Shear strain : 0.763%
Total stress : 381kPa
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
Total pressure (kPa)
Radial Displacement (mm)


Bolton and Whittle (1999) Loop 1 : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
RESULTS:
Gradient (beta) : 0.665
Intercept (n) : 10.021MPa
Shear stress constant : 6.662MPa
Ln[Radial stress]
Ln[shear strain]
Source data - Loop 1
Total pressure (kPa)
Radial Displacement (mm)


Bolton and Whittle (1999) Loop 2 : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
RESULTS:
Gradient (beta) : 0.658
Intercept (n) : 9.973MPa
Shear stress constant : 6.566MPa
Ln[Radial stress]
Ln[shear strain]
Source data - Loop 2
Total pressure (kPa)
Radial Displacement (mm)


Cycle 1 - Measured
Cycle 1 - Calculated
Cycle 2 - Measured
Cycle 2 - Calculated
POWER LAW PARAMETERS:
Cycle No. Constant (MPa) Gradient
1 6.662 0.665
2 6.566 0.658
Variation of stiffness with strain : Arm ave
Shear modulus (MPa)
Log plane shear strain
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08


Curve comparison (Whittle 1999) : Arm ave
Digital 6 arm weak rock self boring pressuremeter
B102T4
26.00 Metres
16 Apr 08
CURVE FIT PARAMETERS:
Origin : 0.020mm
Po : 566.0kPa
Cu : 287.0 kPa
Beta : 0.658
Alpha : 6.122 MPa
Total pressure (kPa)
Cavity strain (%)

6 ARM SELF BORING PRESSUREMETER **TEST RECORD SHEET**

Site	Date	Day	Borehole	Test	Depth to Test Centre (below ground level)
DENMARK PLACE	16/4/08	WED	102	4	26.0

Weather:- FINE Material:- LONDON CLAY

Water table	Drilling Start	Drilling End	Distance	Drill Rate	Ram Pressure
?	14:25	15:05	1m.	1m/30min.	90 BARS

Ground level :- Orientation:- NR.

Water Press.	Inst.OD	Shoe OD	Cutter Type	Cutter position	Probe Reference
>200Bar	87.1	85.1	73 RR	3mm Back	'Mercy'

Drilling Remarks:-

Strain Rate	Press. Rate	Cycle Time	Gas Bottle	Battery	PPC Type	Max Pressure Cap.
1%/min	S (L)	65s	120BAR	12.52	TRIAX	1000kPa

Arm 1	Arm 2	Arm 3	Arm 4	Arm 5	Arm 6	PPC A	PPC B	TPC	Date:-
-113	85	-57	38	-91	129	-1048	-914	-2451	Ground Level Zeros
									Pre-drilling Zeros
									Post-drilling Zeros
-117	74	-72	23	-108	+103	-974	-856	-2450	Pre-test Zeros
									Ground Level Zeros

Test starts:- 15.08

Line	Notes
399	Loop 1 PR5
424	PR4
459	Loop 2 PR5
517	PR3
543	unload

Test ends:- 15:38 Max Press:- 1972kPa

Calibrated Data details:

Mem. Correction.	Mem. Compression.	Strain Cals.	Pressure Cals.
W013077	W013072	10/4/08	11/4/08

TEST REMARKS:

Driller: DAN

Tester: RJO

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