amec	**Project**	M. Nansen TA5 2013		
	Test	Government of Yukon - AAM		
	Location	N/A		
	Job No.	VM00605E.B001	**Sample No.**	GS1
ONE-DIMENSIONAL CONSOLIDATION TEST	**Hole No.**	TP-T-13-6	**Depth**	0.8-0.9 m
(ASTM D2435-90)	**Reported by**	CR/SH	**Date Started**	4-Feb-14

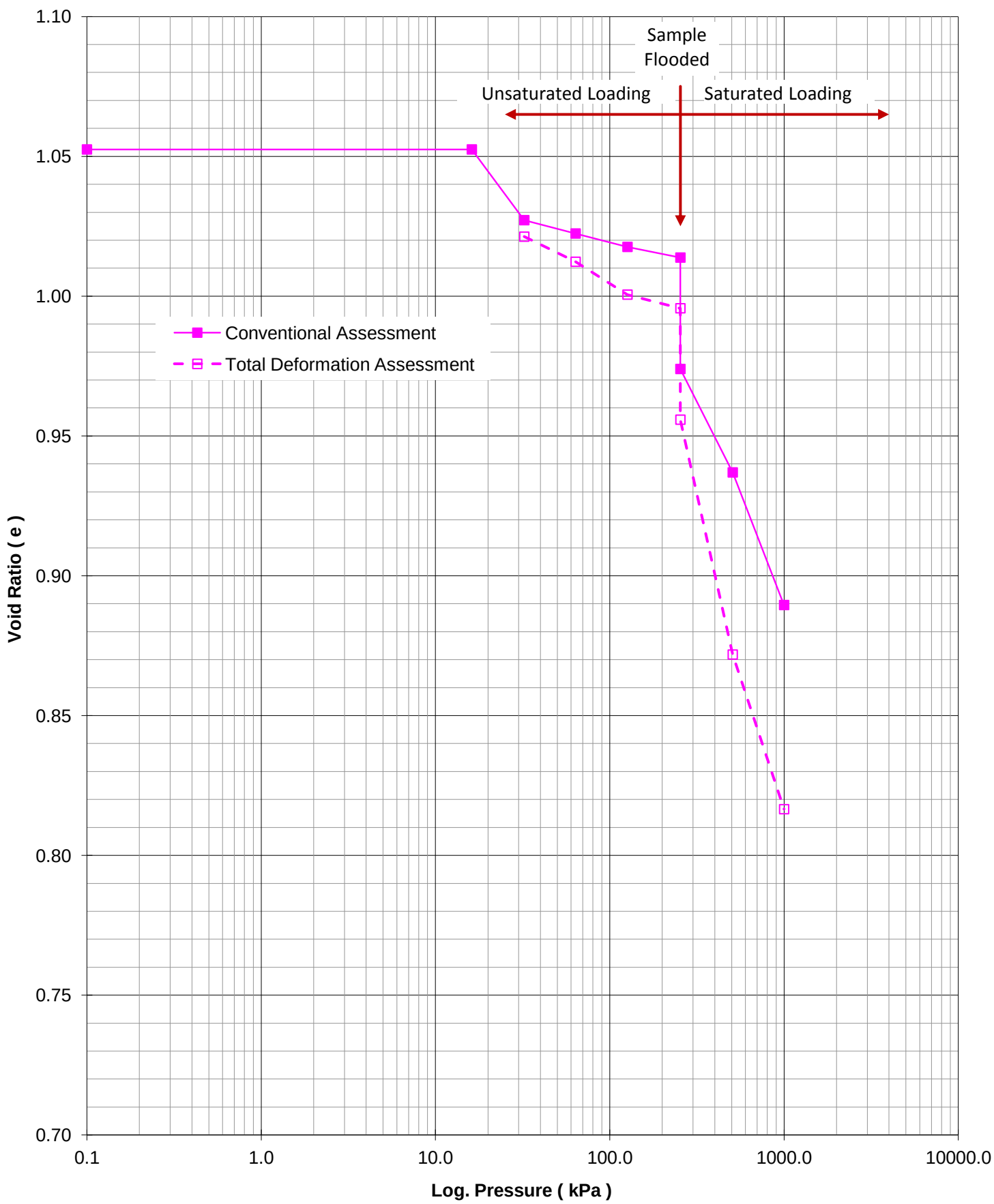
Apparatus Data			**Moisture Content Data**		
Ring No.	7		Wt. of Ring + Soil + Water (Start)	187.80	g
Weight of ring	81.0	g	Wt. of Ring + Soil + Water (End)	193.20	g
Thickness	18.5	mm	Wt. of Ring	81.00	g
Diameter	65.9	mm	Wt. of Soil + Water (End)	112.20	g
Area	34.1	cm^2	Wt. of Tare (Tare #)	81.00	g
Machine No.	7		Wt. of Soil Dry + Tare	165.93	g
Loading Beam Ratio	11:01		Wt. of Soil	84.93	g
Weight of Top + Stone	0.345	kg			

Specimen Data	**Initial**	**Final**		**Index Tests**		Calculated	Final
Specimen Height	18.4500	16.9854	mm	Specific Gravity	(Assumed)	2.77	
Volume of Specimen	62.93	57.93	ml	Liquid Limit	%		
Volume of Solids	30.66	30.66	ml	Plastic Limit	%		
Volume of Voids	32.27	27.27	ml	Plastic Index	%		
Volume of Water	21.87	27.27	ml	Sand	%		
Void Ratio	1.052	0.890		Silt	%		
Saturation	67.8	100.0	%	Clay	%		
Moisture Content	25.8	32.1	%	**Soil Description**		SILTY SAND (50% INITIAL SATURATION)	
Height of Solids	8.99	8.99	mm				
Wet Density	1697	1937	kg/m_3				
Dry Density	1350	1466	kg/m^3				
Compressive Index C_C				Swelling Pressure P_S		16.16	kPa
Recompression Index C_r				Percent Swell			%
Pre-Consolidation Pressure P_O'			kPa	Overburden Pressure P_V			kPa

Results based on conventional assessment of primary consolidation

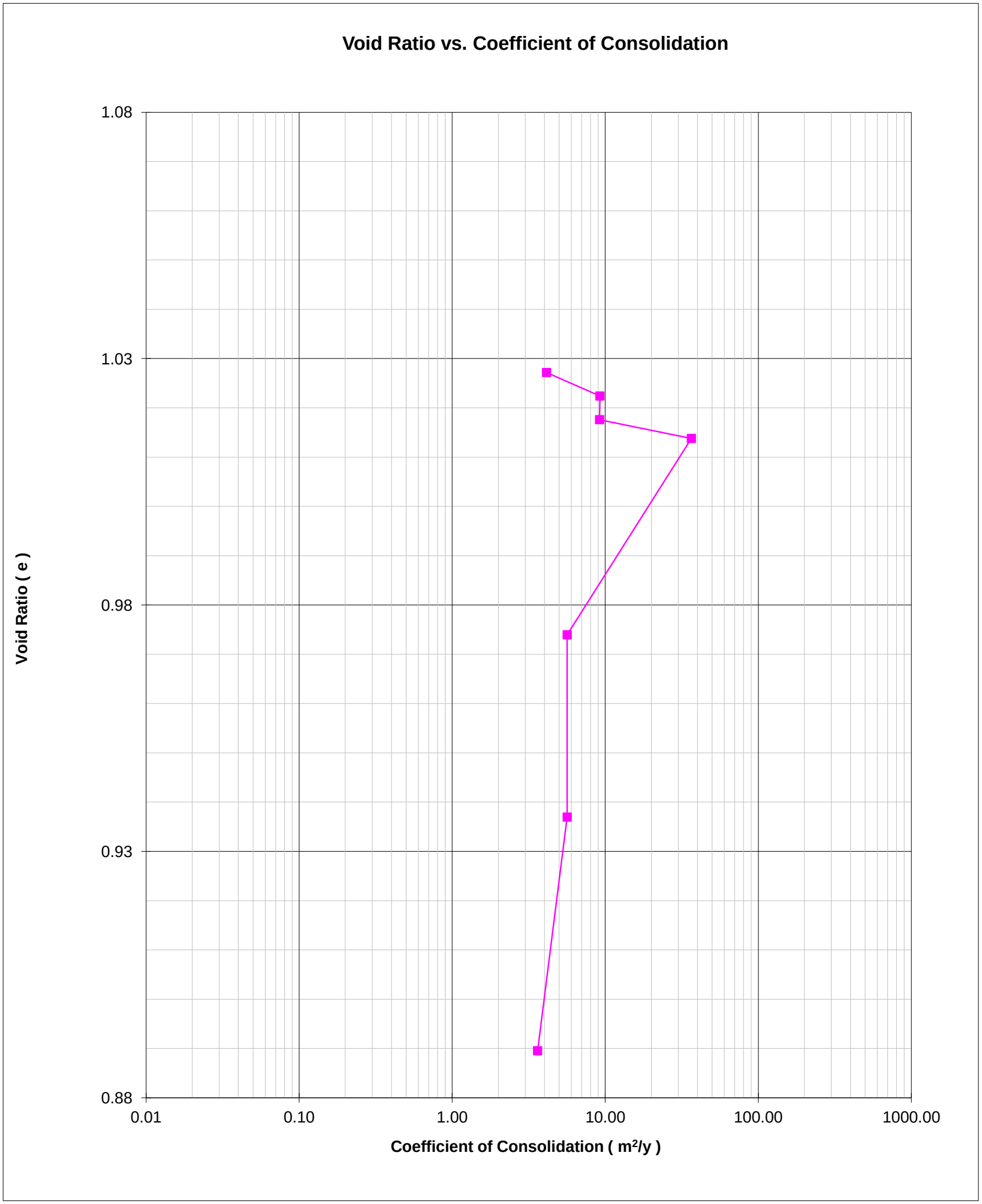
Pressure p (kPa)	Dial Reading (mm)	Apparatus Deformation (mm)	Corrected Height (mm)	Vertical Strain ε (%)	Void Ratio e	Constrained Modulus E=Δp/Δε (MPa)	Coeff. of Consolidation c_v (m^2/yr)	Coeff.of Volume Compressibility m_v (m^2/MN)	Coeff. of Permeability $k = c_v m_v \rho_w g$ (m/s)
0.1	18.4500		18.4500		1.052				
16.16	18.4500		18.4500		1.052				
32.32	18.2152	-0.0074	18.2226	1.23	1.027	1.31	4.13	7.6E-01	9.8E-10
63.66	18.1779	-0.0018	18.1798	1.46	1.022	13.49	9.22	7.5E-02	2.2E-10
126.34	18.1335	-0.0032	18.1367	1.70	1.018	26.84	9.18	3.8E-02	1.1E-10
254.20	18.0976	-0.0048	18.1024	1.88	1.014	68.81	36.53	1.5E-02	1.7E-10
254.20	17.7394	-0.0048	17.7442	3.83	0.974		5.64		
507.41	17.4076	-0.0042	17.4117	5.63	0.937	6.76	5.64	1.5E-01	2.6E-10
1000.68	16.9797	-0.0057	16.9854	7.94	0.890	21.35	3.61	5.0E-02	5.6E-11
Results based on total measured change in height									
0.1	18.4500								
16.16	18.4500		18.4500		1.052				
32.32	18.1622	-0.007426	18.1696	1.52	1.021	1.06		9.4E-01	
63.66	18.0871	-0.001834	18.0890	1.96	1.012	7.17		1.4E-01	
126.34	17.9800	-0.003192	17.9832	2.53	1.001	10.94		9.3E-02	
254.2	17.9346	-0.004822	17.9394	2.77	0.996	53.81		1.9E-02	
254.2	17.5764	-0.004822	17.5812	4.71	0.956				
507.41	16.8220	-0.004166	16.8261	8.80	0.872	6.19		1.7E-01	
1000.68	16.3233	-0.005683	16.3290	11.50	0.817	18.31		6.0E-02	

amec	**Project**	M. Nansen TA5 2013		
	Test	Government of Yukon - AAM		
	Location	N/A		
	Job No.	VM00605E.B001	**Sample No.**	GS1
ONE-DIMENSIONAL CONSOLIDATION TEST	**Hole No.**	TP-T-13-6	**Depth**	0.8-0.9 m
(ASTM D2435-90)	**Reported by**	CR/SH	**Date Started**	04-Feb-14

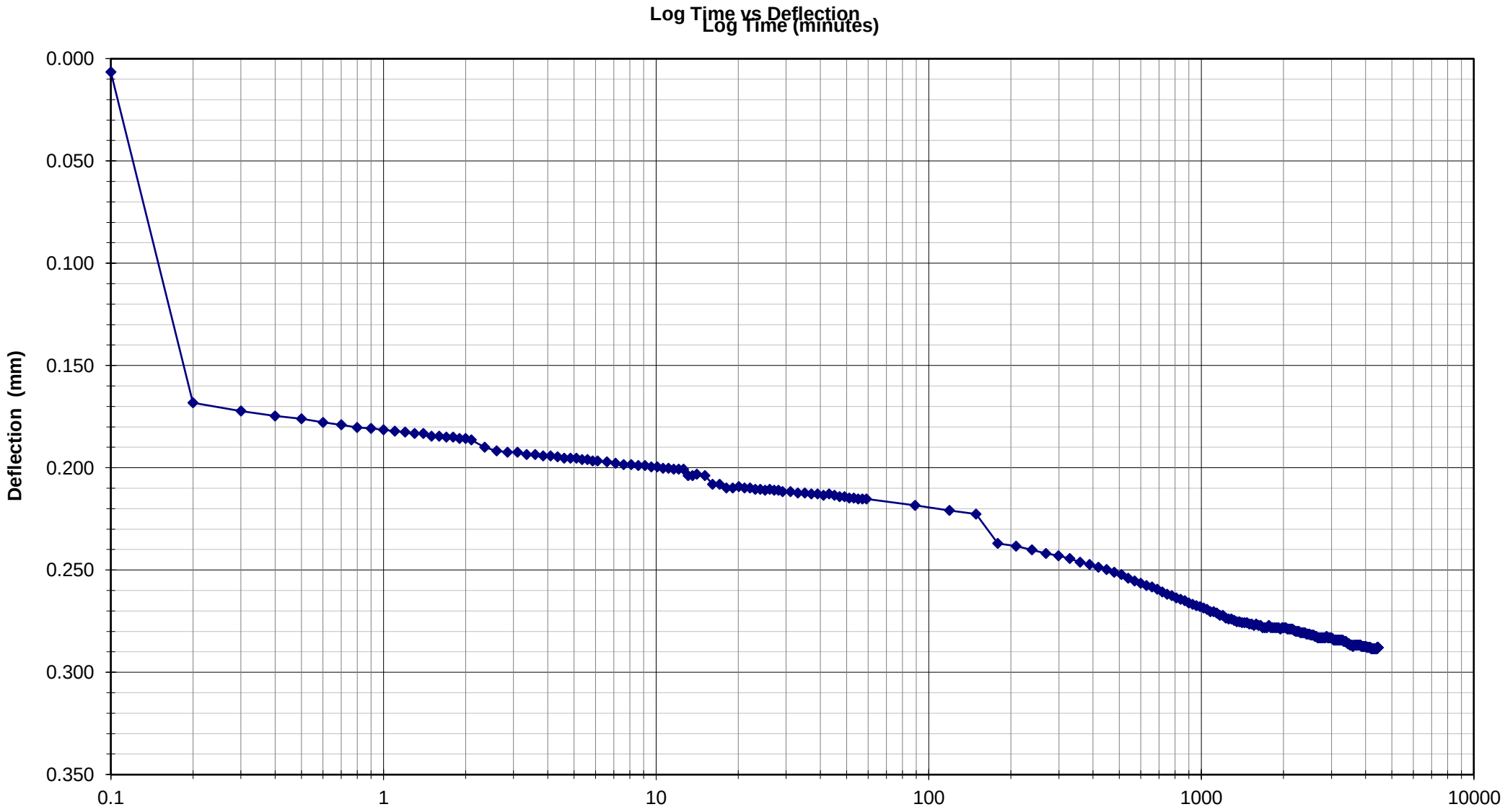


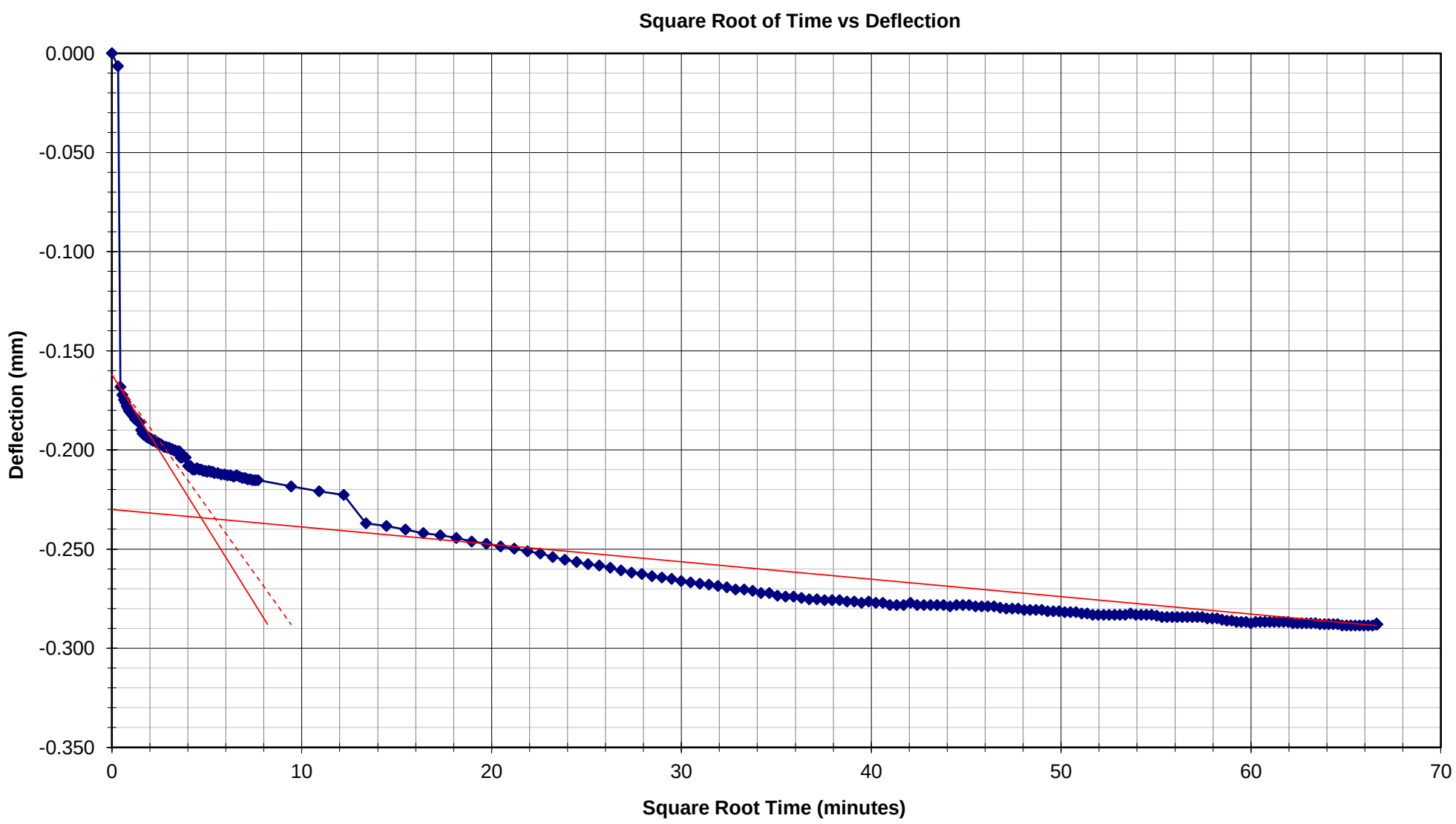
amec	**Project**	M. Nansen TA5 2013		
	Test	Government of Yukon - AAM		
	Location	N/A		
	Job No.	VM00605E.B001	**Sample No.**	GS1
ONE-DIMENSIONAL CONSOLIDATION TEST	**Hole No.**	TP-T-13-6	**Depth**	0.8-0.9 m
(ASTM D2435-90)	**Reported by**	CR/SH	**Date Started**	04-Feb-14

amec	**Project**	M. Nansen TA5 2013		
	Test	Government of Yukon - AAM		
	Location	N/A		
	Job No.	VM00605E.B001	**Sample No.**	GS1
ONE-DIMENSIONAL CONSOLIDATION TEST	**Hole No.**	TP-T-13-6	**Depth**	0.8-0.9 m
(ASTM D2435-90)	**Reported by**	CR/SH	**Date Started**	04-Feb-14

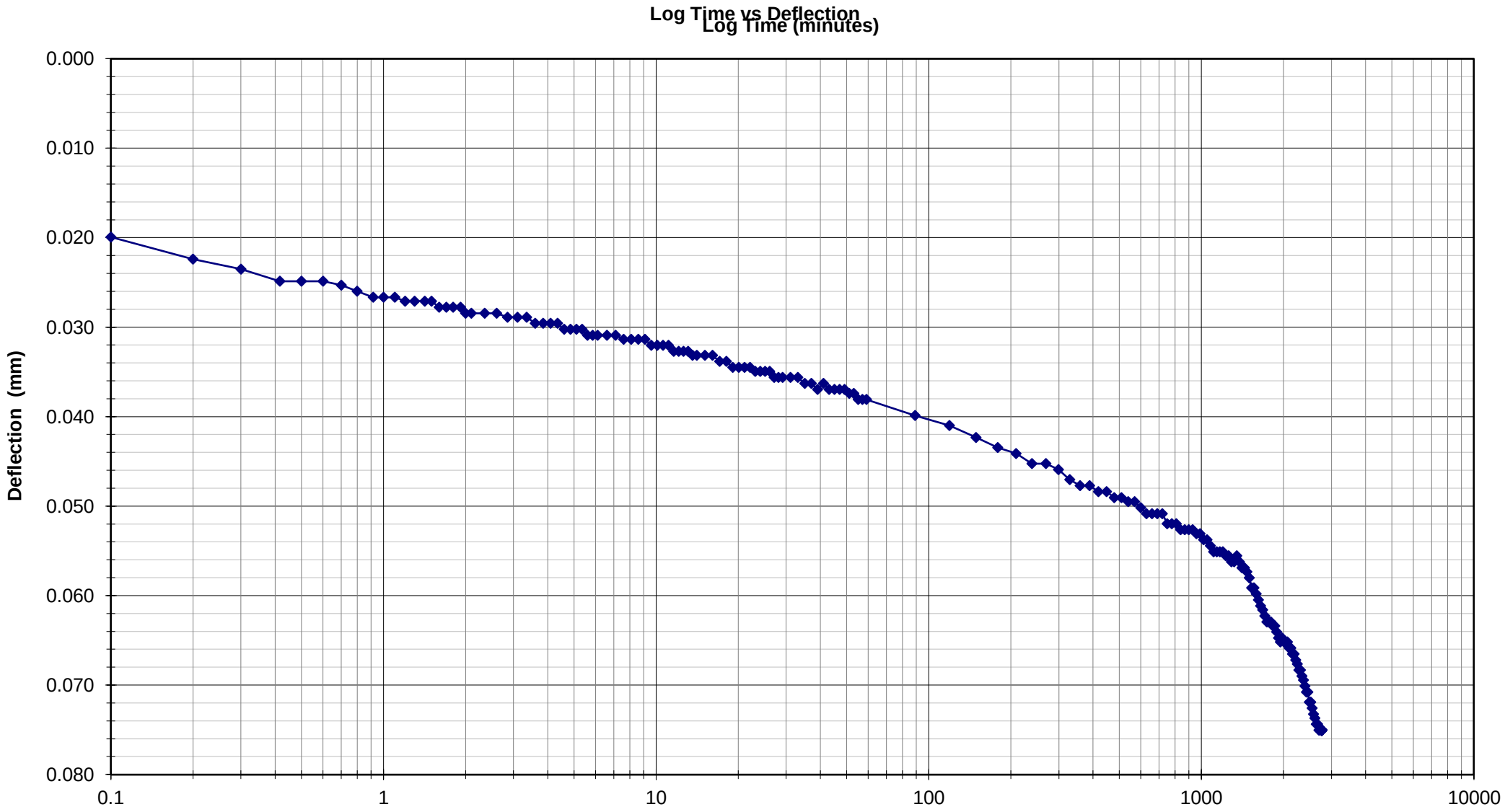


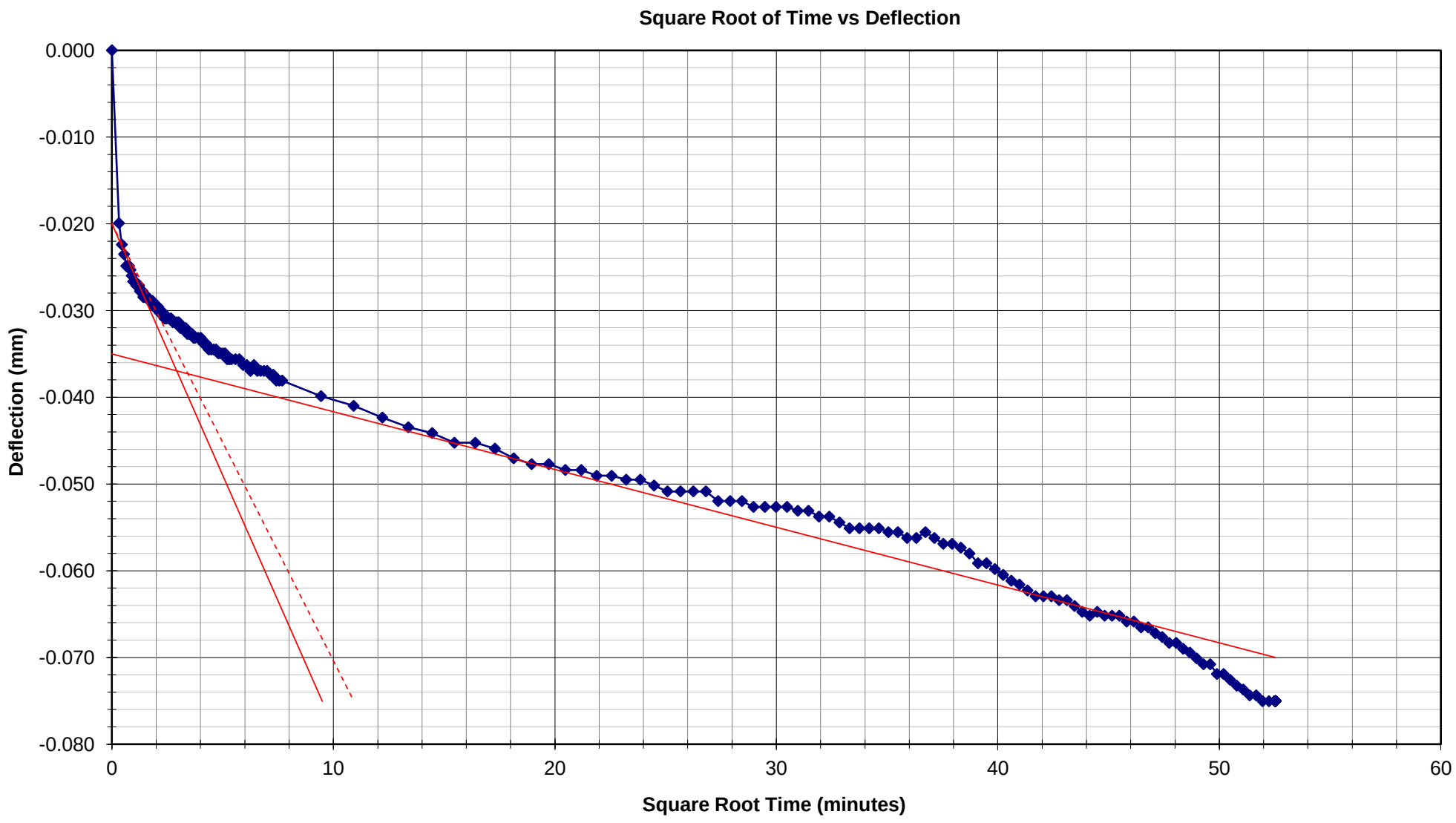
AMEC EARTH & ENVIRONMENTAL *Engineering & Environmental Services*	**Project**	M. Nansen TA5 2013		
	Location			
	Job No.	VM00605E.B001	**Sample No.**	GS1
	Hole No.	TP-T-13-6	**Depth (ft)**	0.8-0.9 m
ONE-DIMENSIONAL CONSOLIDATION TEST	**Technician**	CR/SH	**Loading Date**	
(ASTM D2435-90)	**Loading Stage**	32.32 kPa	**Start Loading Time**	4-Feb-14 10:49



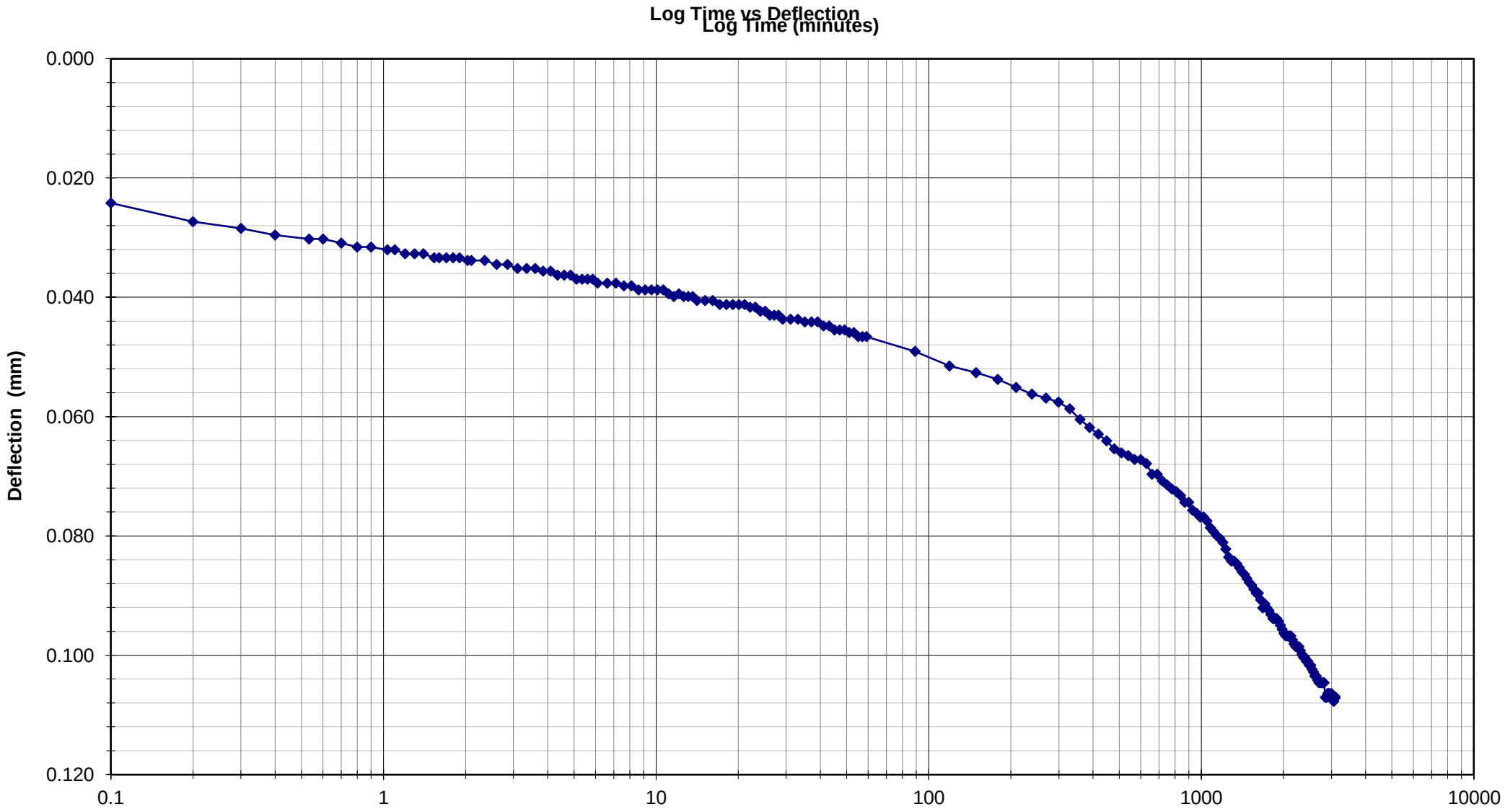


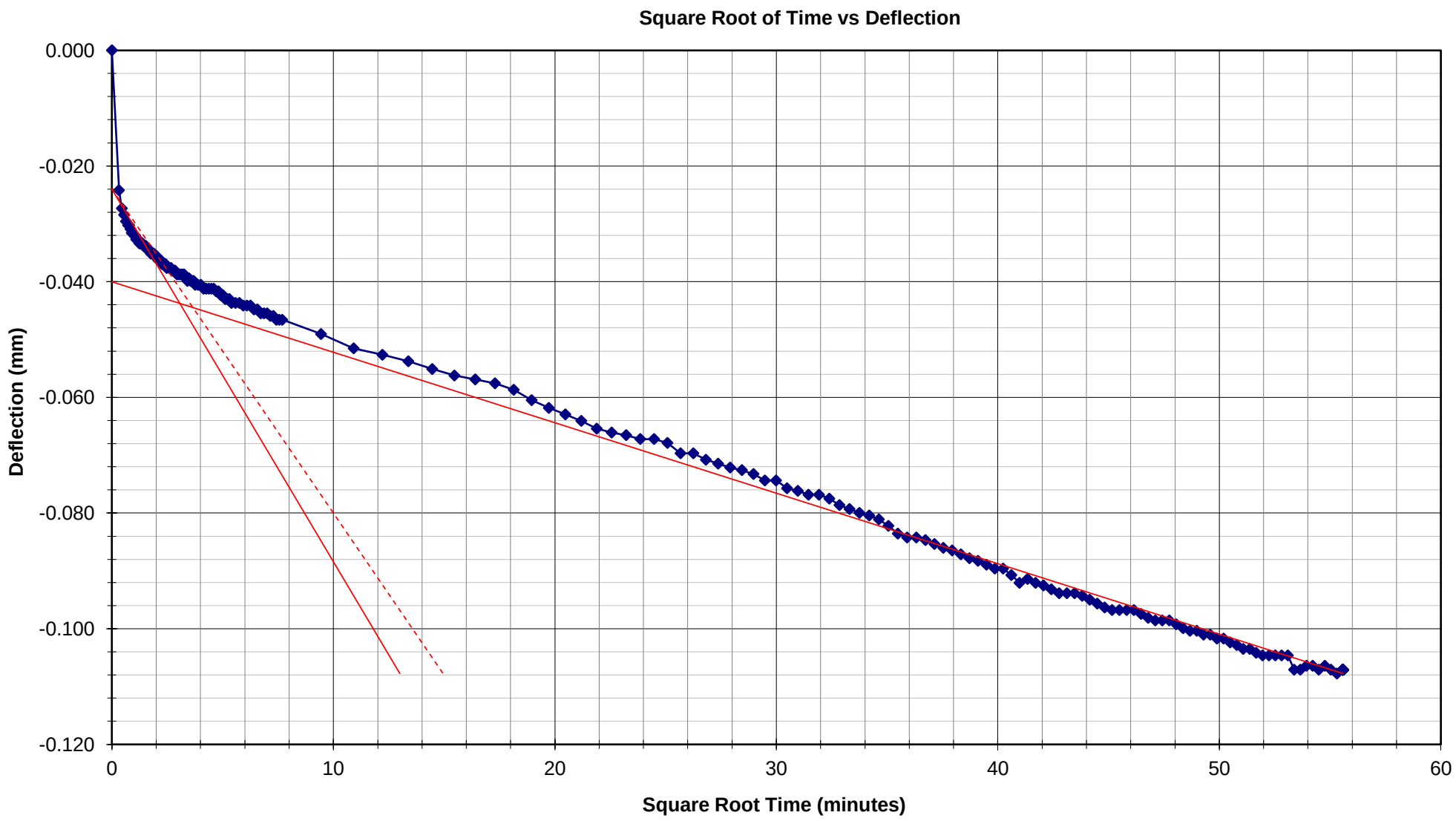
AMEC EARTH & ENVIRONMENTAL *Engineering & Environmental Services*	**Project**	M. Nansen TA5 2013		
	Location			
	Job No.	VM00605E.B001	**Sample No.**	GS1
	Hole No.	TP-T-13-6	**Depth (ft)**	0.8-0.9 m
ONE-DIMENSIONAL CONSOLIDATION TEST	**Technician**	CR/SH	**Loading Date**	
(ASTM D2435-90)	**Loading Stage**	63.66 kPa	**Start Loading Time**	7-Feb-14 13:19



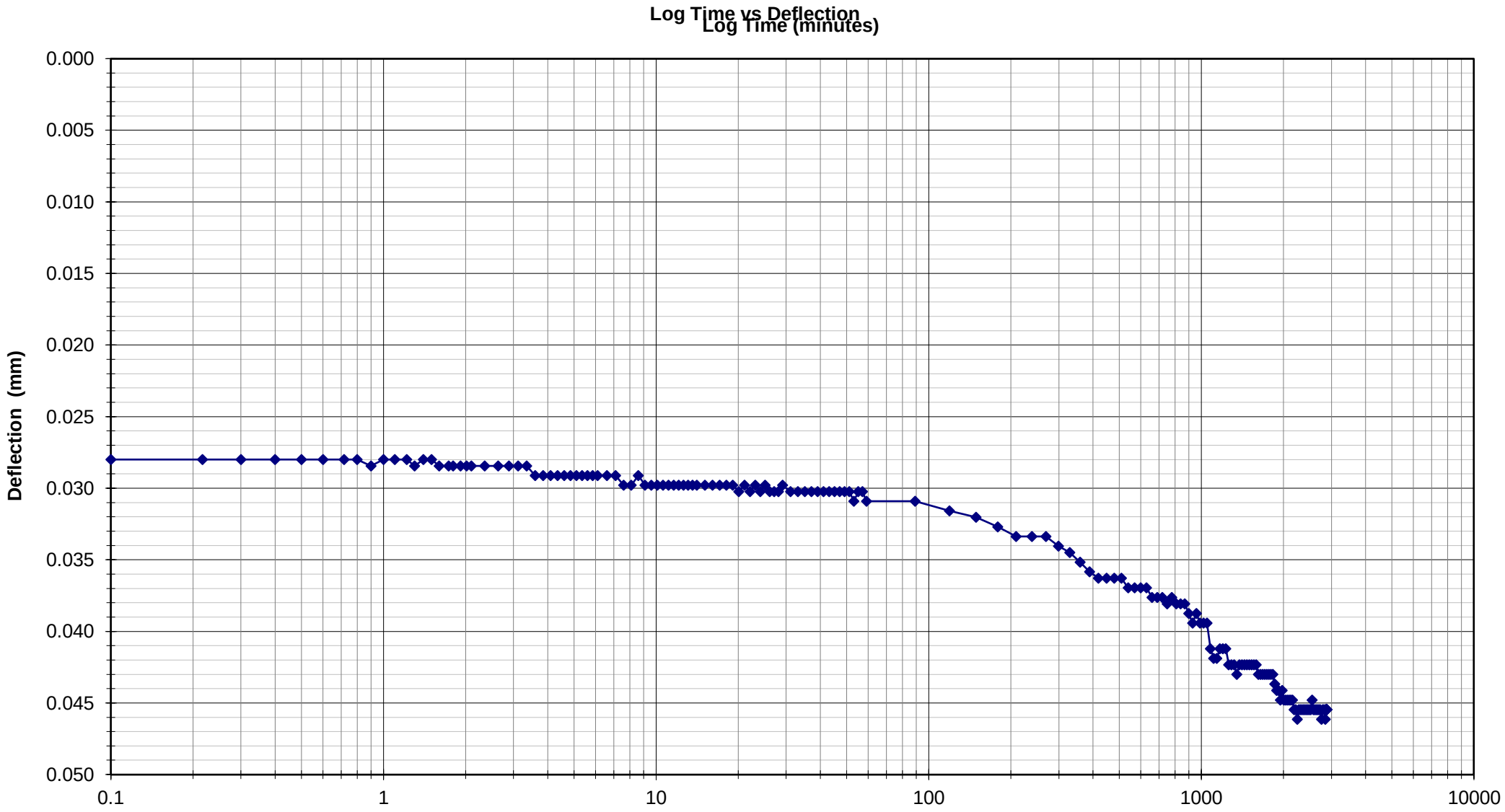


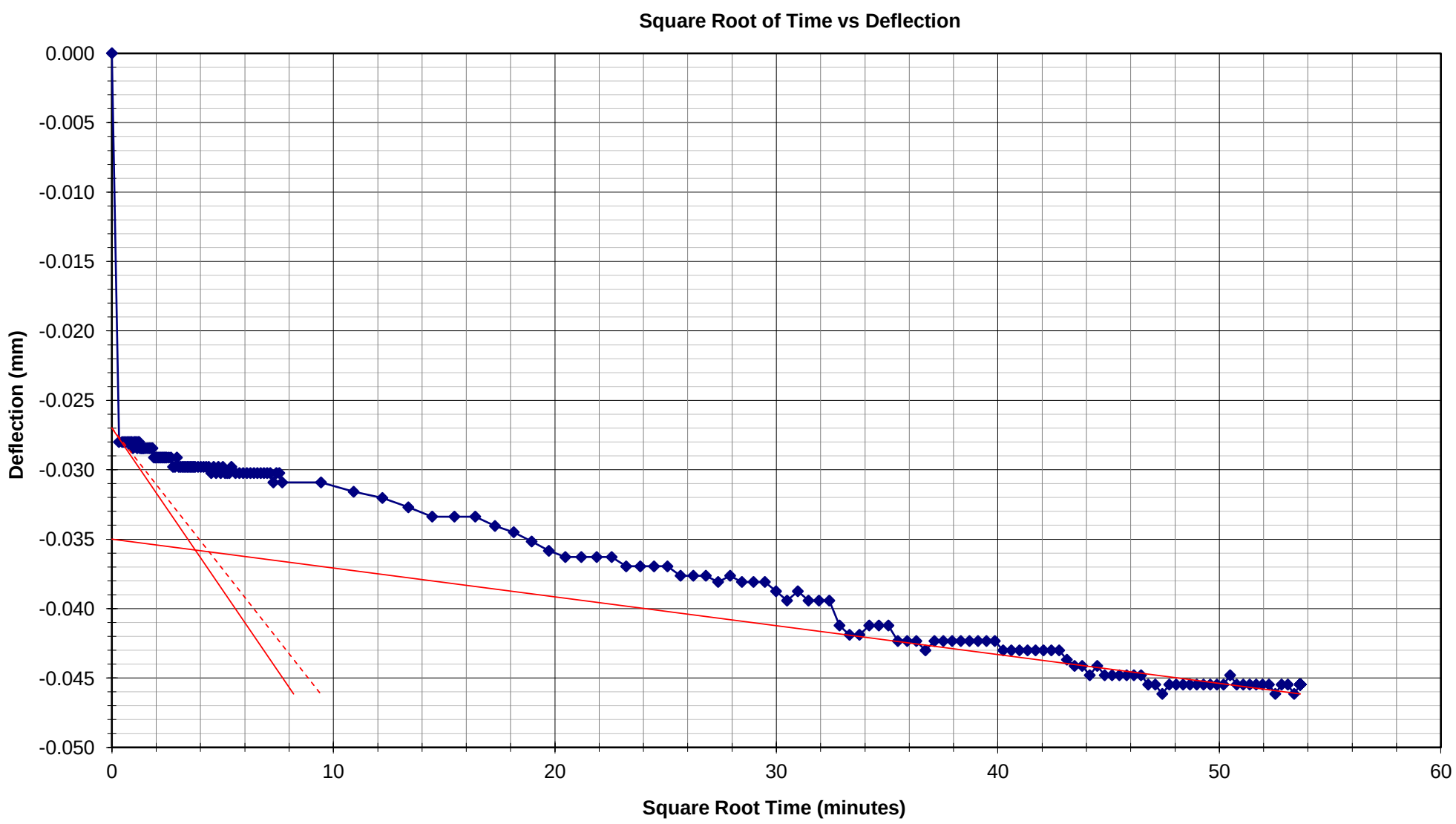
AMEC EARTH & ENVIRONMENTAL *Engineering & Environmental Services*	**Project**	M. Nansen TA5 2013		
	Location			
	Job No.	VM00605E.B001	**Sample No.**	GS1
	Hole No.	TP-T-13-6	**Depth (ft)**	0.8-0.9 m
ONE-DIMENSIONAL CONSOLIDATION TEST	**Technician**	CR/SH	**Loading Date**	
(ASTM D2435-90)	**Loading Stage**	126.34 kPa	**Start Loading Time**	9-Feb-14 11:46



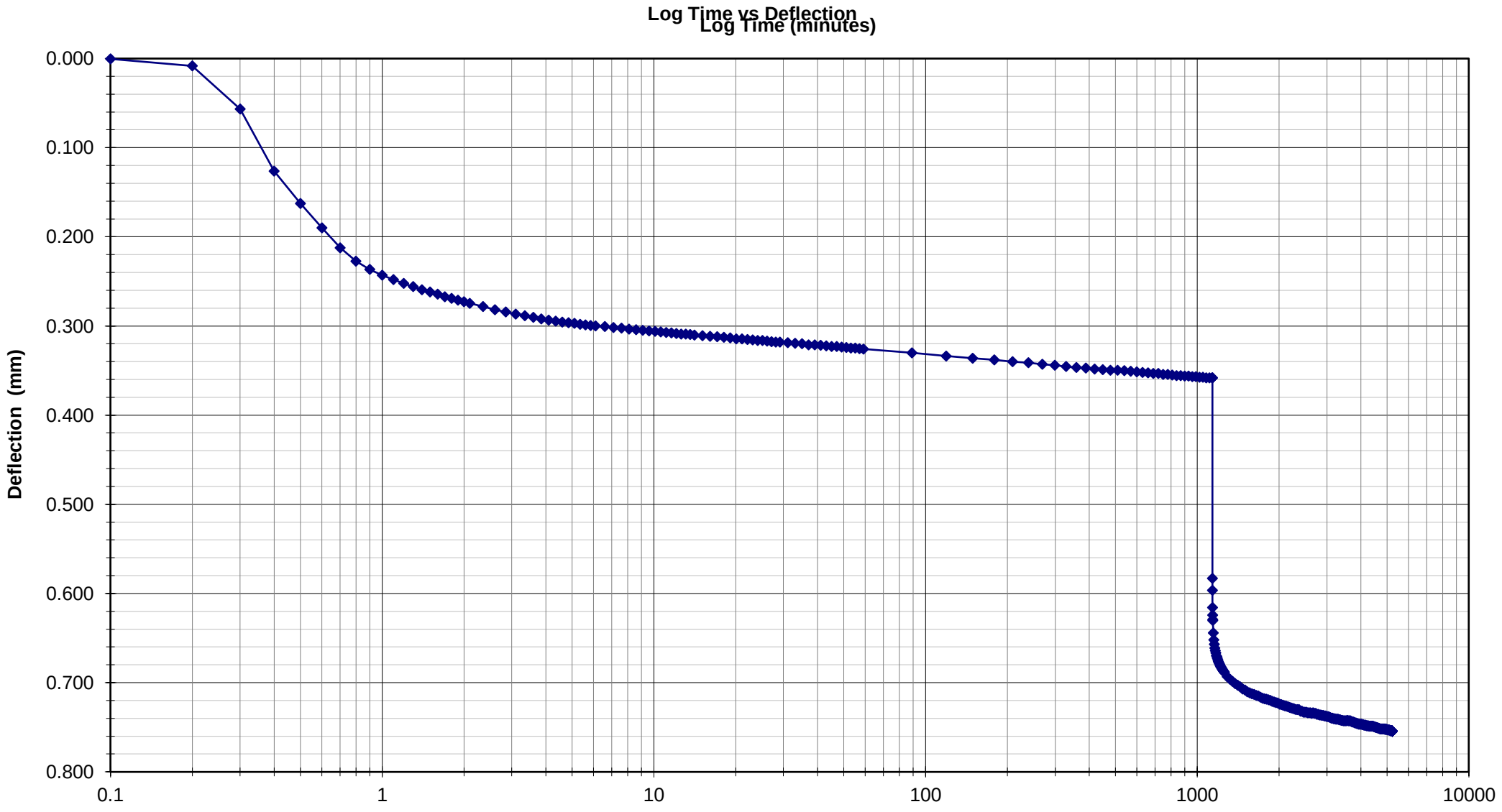


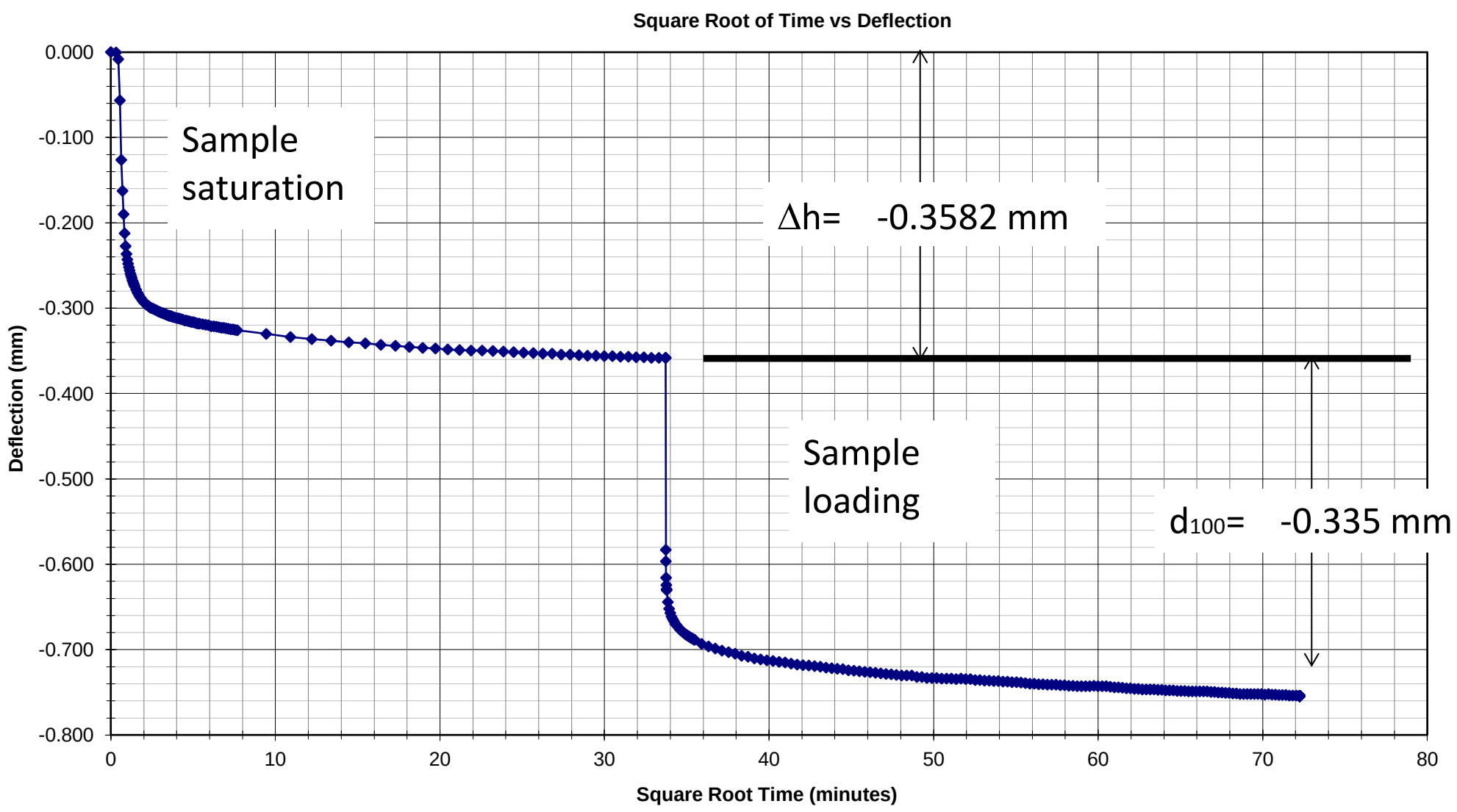
AMEC EARTH & ENVIRONMENTAL *Engineering & Environmental Services*	**Project**	M. Nansen TA5 2013		
	Location			
	Job No.	VM00605E.B001	**Sample No.**	GS1
	Hole No.	TP-T-13-6	**Depth (ft)**	0.8-0.9 m
ONE-DIMENSIONAL CONSOLIDATION TEST	**Technician**	CR/SH	**Loading Date**	
(ASTM D2435-90)	**Loading Stage**	254.20 kPa	**Start Loading Time**	11-Feb-14 15:28



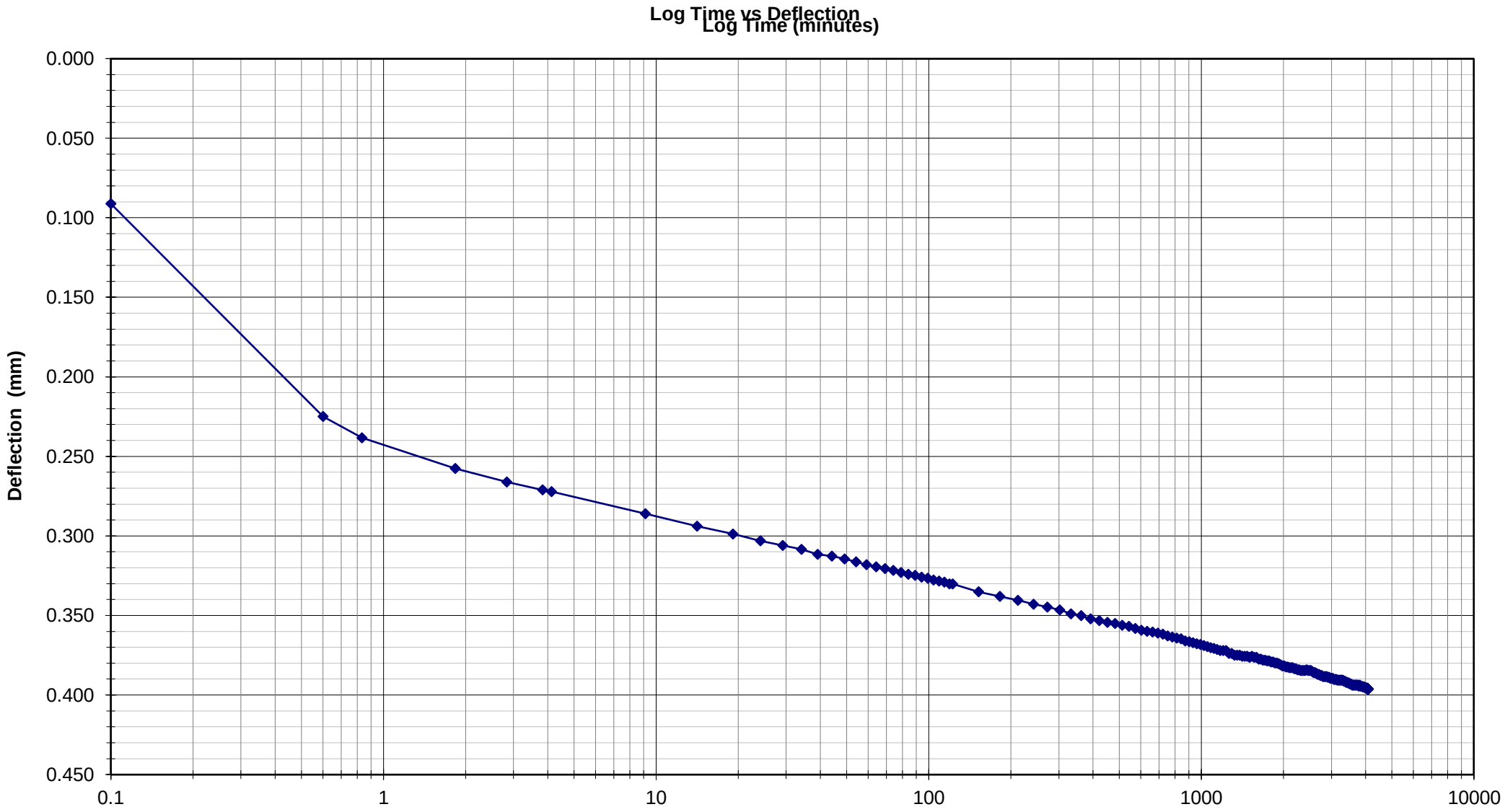


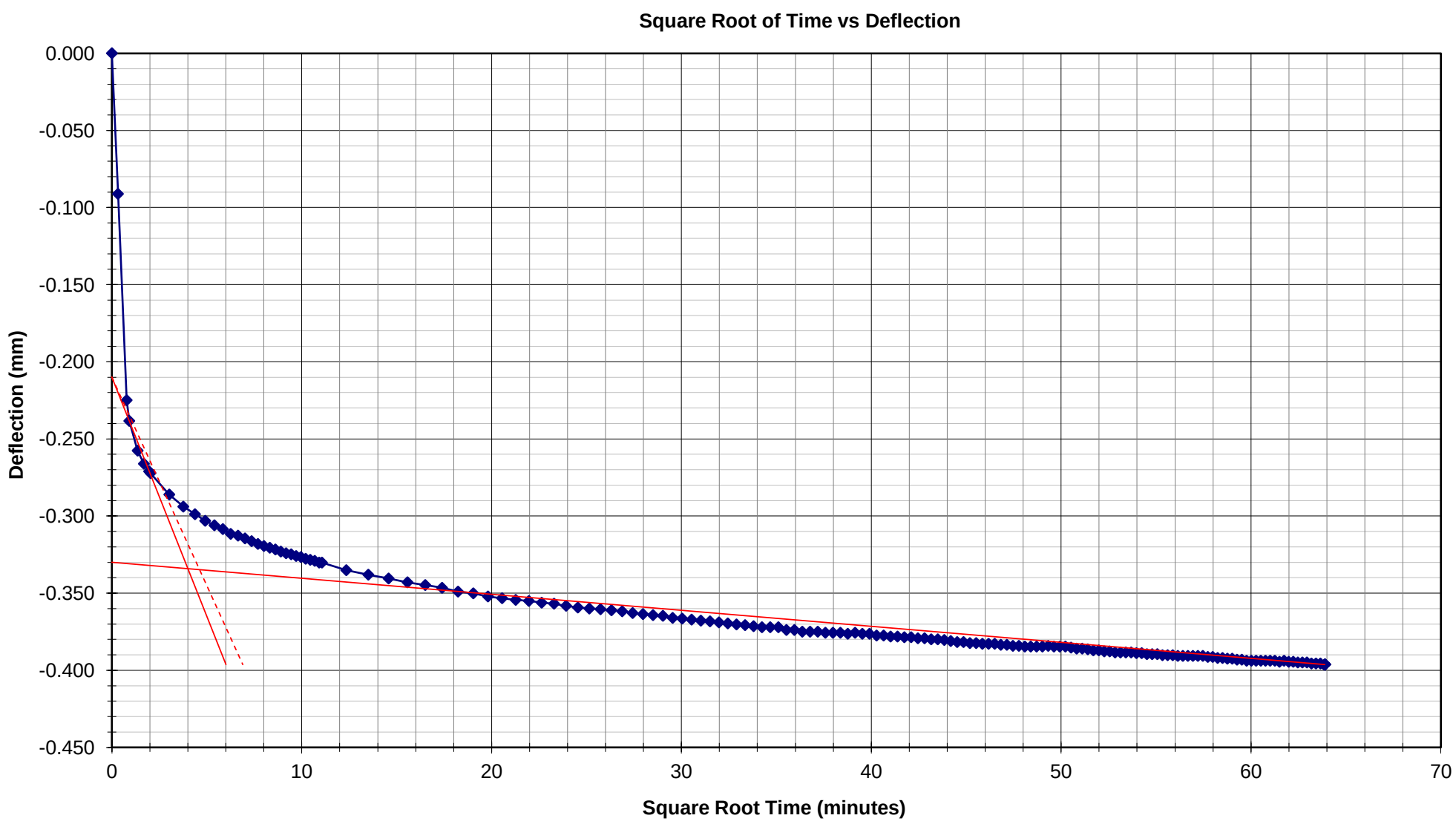
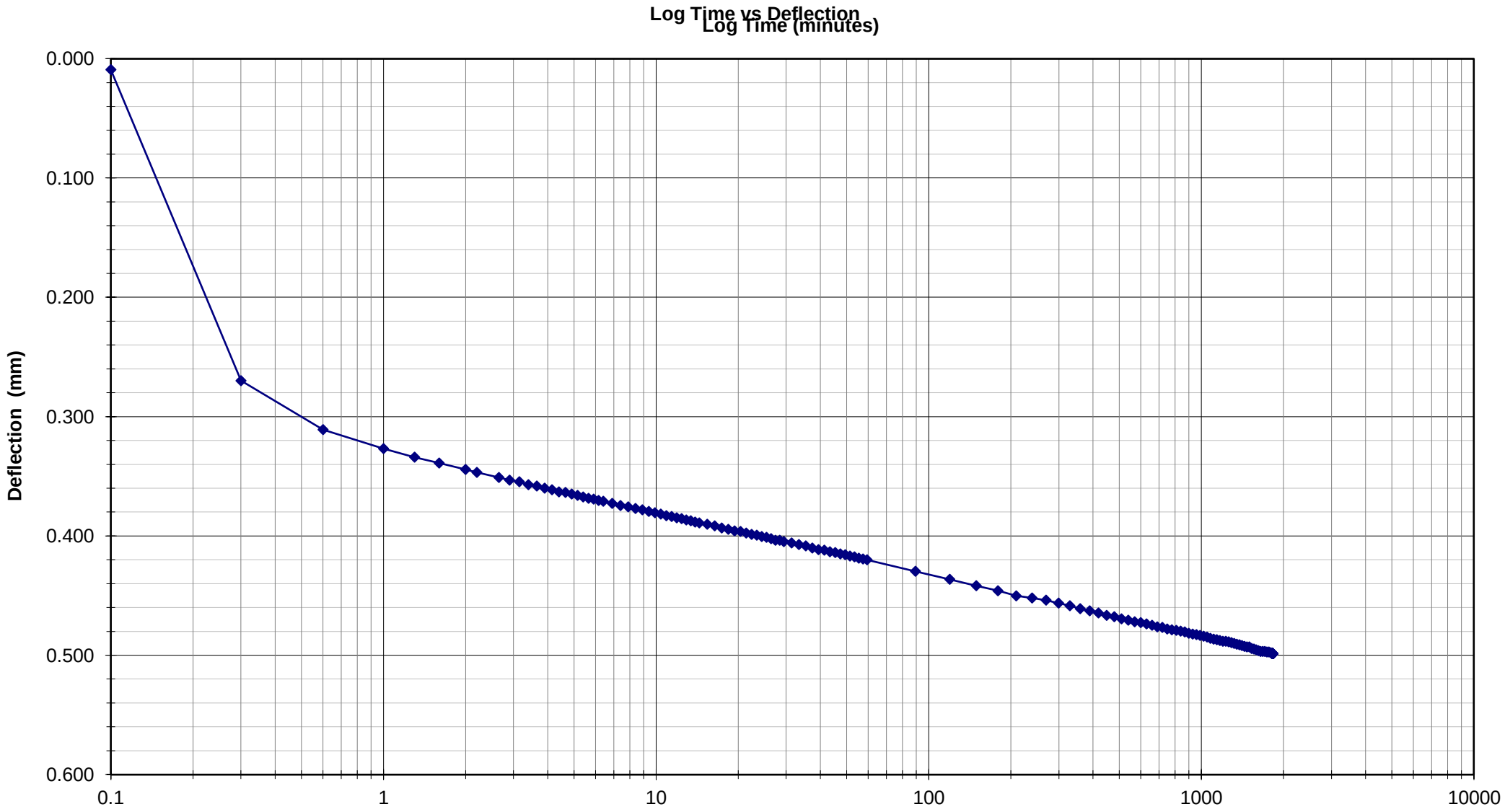
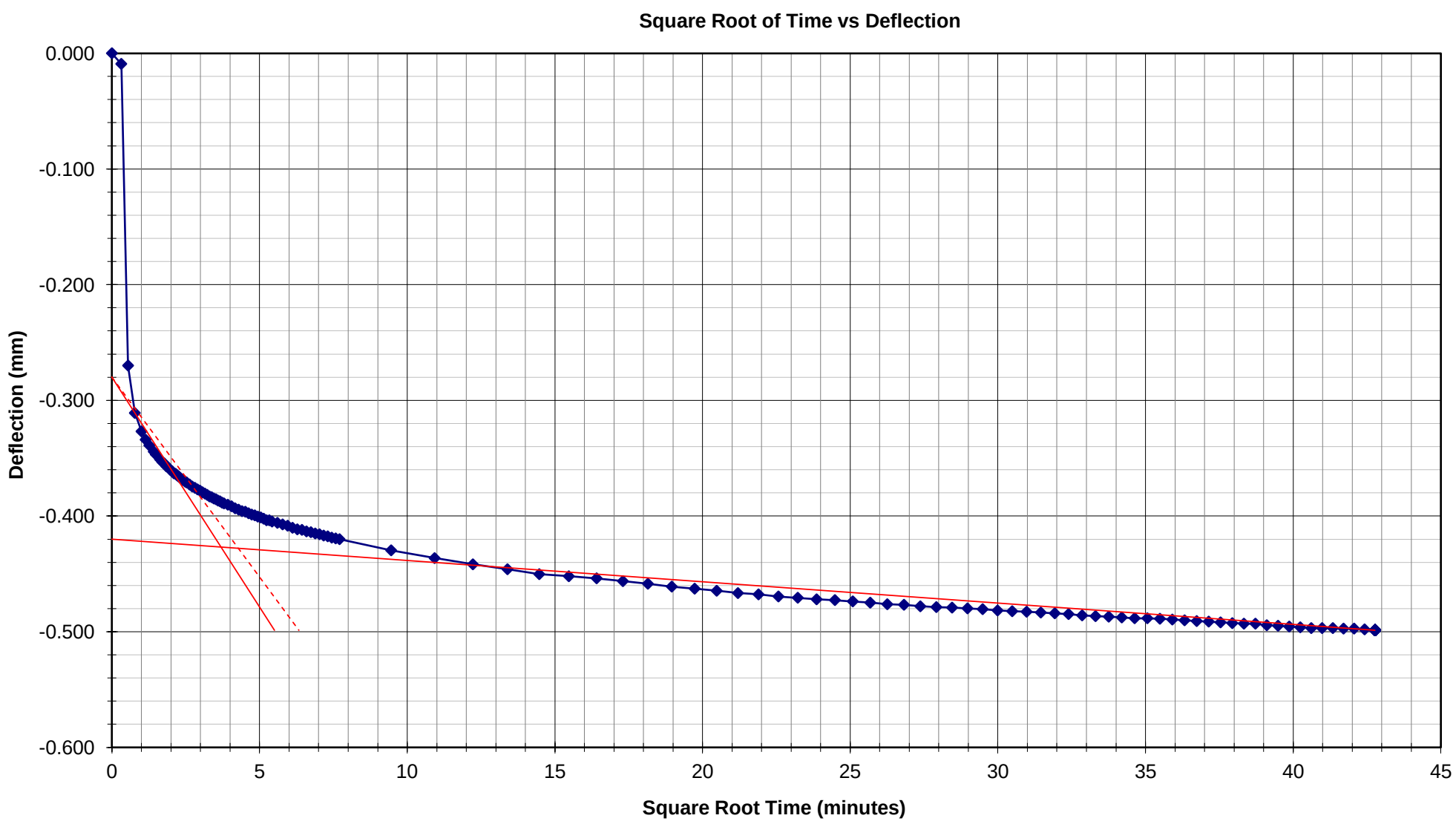
AMEC EARTH & ENVIRONMENTAL *Engineering & Environmental Services*	**Project**	M. Nansen TA5 2013		
	Location			
	Job No.	VM00605E.B001	**Sample No.**	GS1
	Hole No.	TP-T-13-6	**Depth (ft)**	0.8-0.9 m
ONE-DIMENSIONAL CONSOLIDATION TEST	**Technician**	CR/SH	**Loading Date**	
(ASTM D2435-90)	**Loading Stage**	254.20 kPa saturated+507.41 kPa	**Start Loading Time**	13-Feb-14 15:44





AMEC EARTH & ENVIRONMENTAL *Engineering & Environmental Services*	**Project**	M. Nansen TA5 2013		
	Location			
	Job No.	VM00605E.B001	**Sample No.**	GS1
	Hole No.	TP-T-13-6	**Depth (ft)**	0.8-0.9 m
ONE-DIMENSIONAL CONSOLIDATION TEST	**Technician**	CR/SH	**Loading Date**	
(ASTM D2435-90)	**Loading Stage**	570.41 kPa	**Start Loading Time**	14-Feb-14 10:40





AMEC EARTH & ENVIRONMENTAL *Engineering & Environmental Services*	**Project**	M. Nansen TA5 2013		
	Location			
	Job No.	VM00605E.B001	**Sample No.**	GS1
	Hole No.	TP-T-13-6	**Depth (ft)**	0.8-0.9 m
ONE-DIMENSIONAL CONSOLIDATION TEST	**Technician**	CR/SH	**Loading Date**	
(ASTM D2435-90)	**Loading Stage**	1000.68 kPa	**Start Loading Time**	17-Feb-14 7:10