



THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY
12000 Jefferson Avenue
Newport News, VA 23606

HALL D Technical Note

TITLE: Assembly of Hall D Solenoid Conductor DATE: 05June2014
Documents

BY: George Biallas

REV.	ECO#	DESCRIPTION	BY	CHK.	APP.	APP.	DATE
SUMMARY OF CHANGES FROM PREVIOUS REVISION:							

Assembly of Hall D Solenoid Conductor Documents

This document assembles the available information on the superconducting wire used in the solenoid.

Index:

Page	
3	Short Sample Data by Reel Number, Grade A
4	Short Sample Data by Reel Number, Grade B
5	Short Sample curves Subcoil 1A
6	Short Sample curves Subcoil 1B
7	Short Sample curves Subcoil 1C
8	Short Sample curves Subcoil 1D
9	Short Sample curves Subcoil 1E
10	Short Sample curves Subcoil 1F
11	Short Sample curves Subcoil 1G
12	Short Sample curves Subcoil 2A
13	Short Sample curves Subcoil 2B
14	Short Sample curves Subcoil 2C
15	Short Sample curves Subcoil 2D
16	Short Sample curves Subcoil 3A
17	Short Sample curves Subcoil 3B
18	Short Sample curves Subcoil 3C
19	Short Sample curves Subcoil 3D
20	Short Sample curves Subcoil 4AB
21	Short Sample curves Subcoil 4C
22	Short Sample curves Subcoil 4D
23-30	The Reel Log
31-32	Grade B Lengths
33-35	Soldering photos
36	Sample shipping note
37-139	Short Sample Data Curves, Double Pancake position noted Data for Reel 42, Subcoil 1A, DP 5/6 is missing or never short sampled

Grade A Reel Number	1A	1A	2A	2A	3A	4A	5A	6A	6A	7A	7A	7A	8A	9A	9A	10A	10A	11A	
Top/Bottom	Top	Bottom	Top	Bottom	Bottom	Bottom	Top	Top	Bottom	Top	Bottom	Bottom	Bottom	Top	Bottom	Top	Bottom	Top	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Field (T)																			
4	3360	3050	3230		3370	3520	3520					3410	3540	3040	3230		3500	3600	3560
4.5	3100	2820	2840	3380	3150	3090	3050	3450	3400	3370	3140	3130	2820	2880	3420	3140	3100	3160	
5	2850	2410	2450	2750	2730	2510	2740	2990	3000	2890	2680	2670	2490	2510	2920	2630	2660	2740	
5.5	2380	2040	2070	2320	2320	2270	2260	2540	2550	2430	2250	2170	2140	2040	2550	2210	2290	2410	
6	1890	1745	1580	1640	1900	1720	1920	2070	2080	2050	1790	1810	1800	1670	2010	1790	1850	2090	
	1E/ 9,10	1E/ 9,10	4CD/ 1,2	4CD/ 1,2	1G/ 1,2	4CD/ 3,4	4CD/ 5,6	4CD/ 7,8	4CD/ 7,8	4CD/ 9,10	4CD/ 9,10	4CD/ 9,10	4CD/ 11,12	4CD/ 13,14	4CD/ 13,14	4CD/ 15,16	4CD/ 15,16	4CD/ 17,18	
	1A/ 7/8	1A/ 7/8			1B/ 5,6														Odd test

Green indicates data transferred to Subcoil Data in Tabs

Grade A Reel Number	11A	12A	12A	13A	13A	14A	14A	15A	15A	16A	16A	17A	17A
Top/Bottom	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse
Field (T)													
4	3740	3750	3680	3510	3670	Missing	3630	Missing	3630	3410	3500	3860	3440
4.5	3240	3340	3230	3050	3250	3500	3140	3500	3190	2980	3130	3360	3040
5	2750	2900	2700	2700	2760	2910	2640	3000	2770	2605	2770	2820	2710
5.5	2370	2450	2250	2270	2300	2410	2260	2550	2300	2265	2400	2440	2340
6	1960	2010	1850	1900	1880	2000	1860	2160	1925	1920	2035	2010	1900
	4CD/ 17,18	4CD/ 19,20	4CD/ 19,20	4CD/ 21,22	4CD/ 21,22	4CD/ 23,24	4CD/ 23,24	4CD/ 25,26	4CD/ 25,26	4CD/ 27,28	4CD/ 27,28	4CD/ 29,30	4CD/ 29,30

Grade B Reel Numbe	1	1	1	3	4	4	5	6	6	7	8	9	9	10	10	11	11	12	12
Top/Bottom	Top	Top	Bottom	Top	Top	Bottom	Bottom	Top	Bottom	Top	Top	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom
Transverse/parallel	Parallel	Transverse	Parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse
Field (T)																			
4	2700	2630	3050	3010	2610	2650	2730	2610	2750	2570	2620	2710	2770	2730	2610	2550	2590	2740	2710
4.5	2370	2310	2760	2770	2270	2200	2370	2300	2430	2290	2300	2370	2490	2300	2260	2250	2260	2390	2390
5	2100	1980	2240	2400	1890	1810	2000	1950	1875	1900	1950	2080	2120	1950	1870	1870	1920	2080	2090
5.5	1740	1670	1900	2050	1640	1530	1640	1680	1650	1610	1670	1750	1700	1610	1540	1580	1610	1790	1750
6	1510	1360	1570	1700	1340	1380	1300	1330	1410	1280	1380	1420	1430	1330	1300	1280	1320	1480	1470
Subcoil/Pancakes	3B/ 5,6 3B/ 11,12	3B/ 5,6 3B/ 11,12	3B/ 5,6 3B/ 11,12	3B/ 1,2 3D/ 7,8 3D/ 9,9	1B/ 1,2 3B/ 3,4	1B/ 1,2 3B/ 3,4	3A/ 5,6 3B/ 7,8	3B/ 9,10 3C/ 7,8	3B/ 9,10 3C/ 7,8	3C/ 1,2 3D/ 3,4 3D/ 5,6	3C/ 3,4 3D/ 1,2	3A/ 3,4 3D/ 1,2	3A/ 3,4 3D/ 1,2	2B/ 3,4 2C/ 3,4	2B/ 3,4 2C/ 3,4	1F/ 5,6	1F/ 5,6	2B/ 5,6 3A/ 11,12	2B/ 5,6 3A/ 11,12

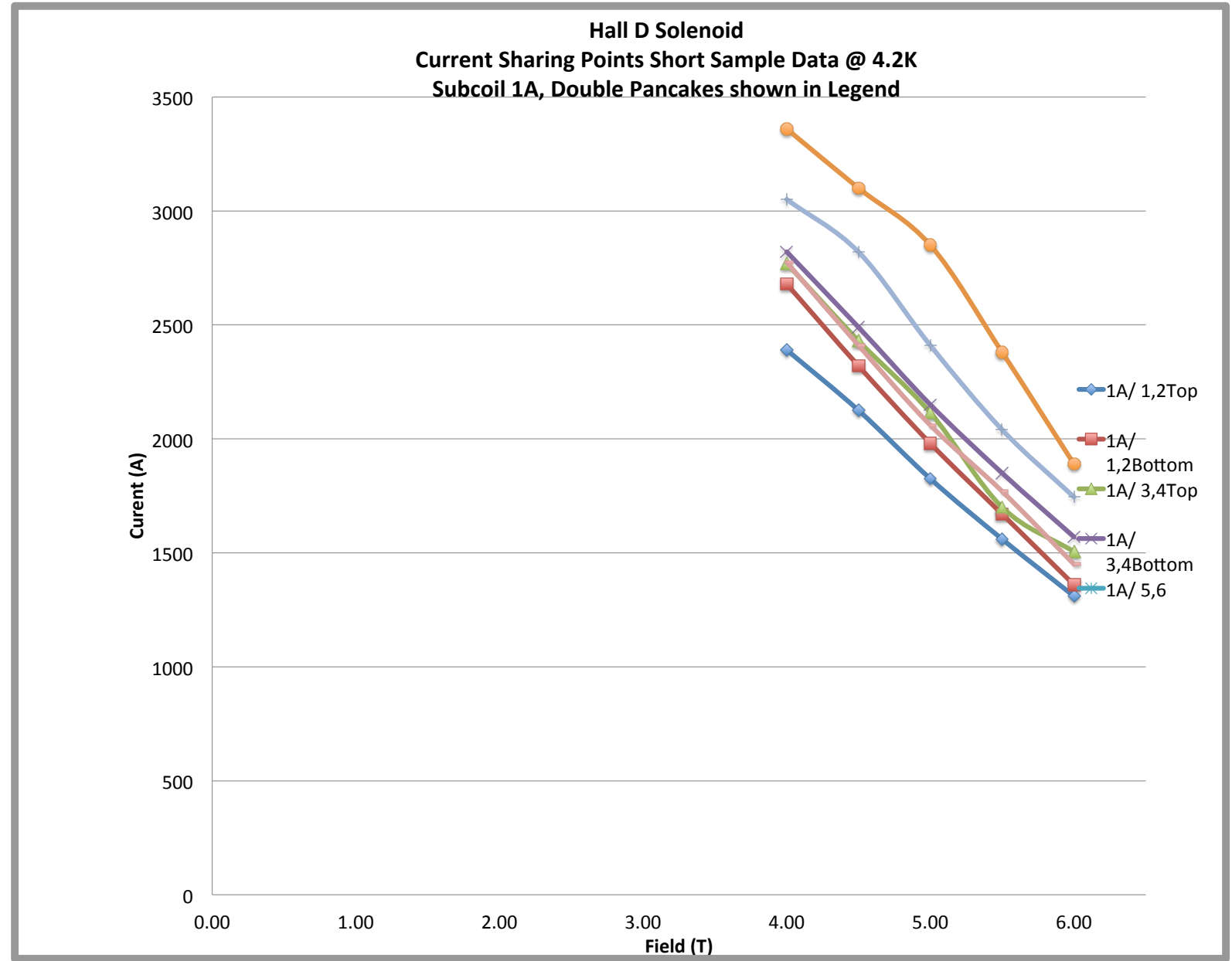
Green indicates data transferred to Subcoil Data in Tabs

Grade B Reel Numbe	13	14	14	15	15	16	17	18	18	19	19	20	20	21	21	22	22	23	24
Top/Bottom	Bottom	Top	Bottom	Top	Bottom	Top	Top	Top	Bottom	Top	Bottom	Top	Bottom	Bottom	Bottom	Bottom	Bottom	Top	Top
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse
Field (T)																			
4	2700	2730	2500	2800	2590	2700	2560	2640	2620	2490	2610	2610	2600	2510	2480	2530	2590	2520	2250
4.5	2360	2400	2240	2400	2260	2490	2420	2330	2270	2160	2300	2300	2250	2190	2170	2160	2270	2250	2030
5	2000	2030	1930	2080	1800	2000	1910	1980	1960	1890	1950	1960	1950	1890	1860	1860	1960	1920	1820
5.5	1700	1710	1610	1740	1570	1600	1610	1670	1650	1560	1660	1670	1650	1580	1540	1580	1660	1650	1580
6	1410	1410	1330	1430	1300	1370	1310	1410	1360	1270	1350	1400	1360	1300	1260	1290	1400	1360	1300
Subcoil/Pancakes	3A/ 1,2 3D/ 11,12	2B/ 1,2 3A/ 9,10	2B/ 1,2 3A/ 9,10	1D/ 7,8 3A/ 7,8	1D/ 7,8 3A/ 7,8	2B/ 7,8 2C/ 1,2	2C/ 5,6	2C/ 11,12 2D/ 1,2	2C/ 11,12 2D/ 1,2	2C/ 7,8 2D/ 3,4	2C/ 7,8 2D/ 3,4	2D/ 7,8 2D/ 9,10	2D/ 7,8 2D/ 9,10	2D/ 5,6 2C/ 9,10	2D/ 5,6 2C/ 9,10	2D/ 11,12 1E/ 3,4	2D/ 11,12 1E/ 3,4	2A/ 1,2	2A/ 3,4 1C/ 1,2

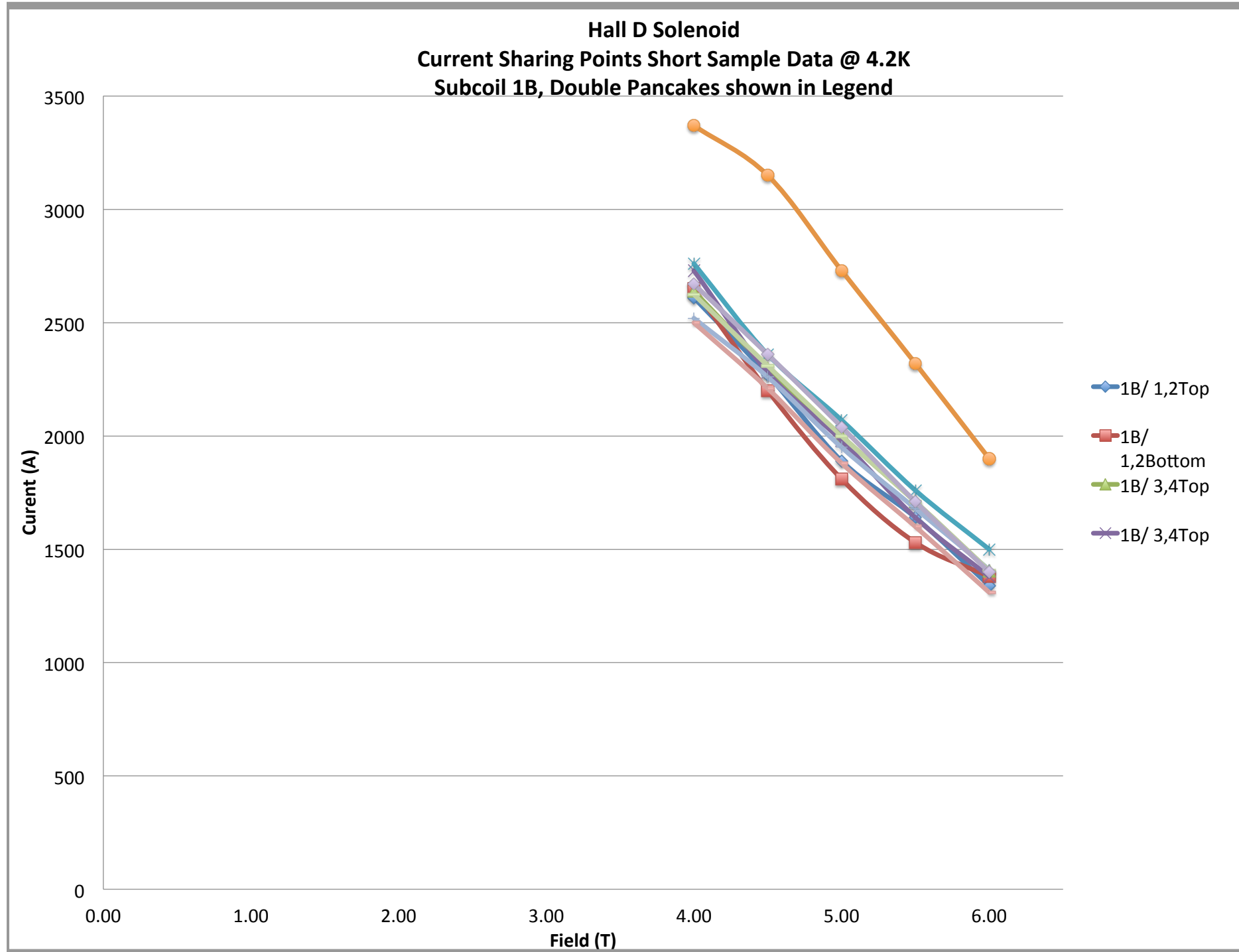
Grade B Reel Numbe	24	25	26	27	28	29	30	30	31	31	32	32	33	33	33	34	34	35	36
Top/Bottom	Bottom	Top	Top	Top	Top	Top	Top	Bottom	Top	Bottom	Top	Bottom	Top	Bottom	Bottom	Top	Bottom	Bottom	Top
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse
Field (T)																			
4	2750	2730	2710	2790	2740	3050	2390	2940	2770	2820	2250	2780	2350	2760	2740	2520	2500	2775	2640
4.5	2380	2490	2440	2340	2410	2760	2160	2510	2430	2490	2000	2410	2010	2470	2480	2260	2210	2410	2300
5	2050	2110	2030	1970	2060	2350	1870	2250	2115	2150	1820	2070	1720	2080	2140	1950	1880	2060	2000
5.5	1750	1820	1740	1630	1750	1970	1590	1870	1700	1850	1590	1750	1450	1810	1800	1680	1600	1770	1710
6	1440	1500	1490	1410	1450	1650	1260	1590	1505	1570	1340	1480	1090	1500	1500	1410	1310	1450	1405
Subcoil/Pancakes	2A/ 3,4 1C/ 1,2	2A/ 5,6 4AB/ 9,10	2A/ 7,8 1C/ 3,4	2A/ 9,10 1C/ 5,6	2A/ 11,12 1C/ 7,8	1A/ 11,12 4AB/ 3,4	1G/ 3,4 1D/ 1,2	1G/ 3,4 1D/ 1,2	1A/ 3,4 4AB/ 5,6	1A/ 3,4 4AB/ 5,6	1G/ 5,6 1D/ 3,4	1G/ 5,6 1D/ 3,4	1F/ 7,8 1D/ 5,6	1F/ 7,8 1D/ 5,6	1F/ 7,8 1D/ 5,6	1B/ 7,8 4AB/ 1,2	1B/ 7,8 4AB/ 1,2	1A/ 9,10 4AB/ 11,12	1B/ 3,4 4AB/ 7,8

Grade B Reel Numbe	36	36	37	38	38	38	39	40	40	41	41	43
Top/Bottom	Top	Bottom	Top	Top	Top	Bottom	Bottom	Top	Bottom	Top	Bottom	Top
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse
Field (T)												
4	2730	2760	2670	2610	2640	2520	2625	2540	2360	2390	2680	2840
4.5	2280	2360	2360	2290	2310	2250	2310	2350	2140	2125	2320	2510
5	1980	2070	2040	2020	2000	1850	2000	1980	1900	1825	1980	2180
5.5	1640	1760	1710	1680	1690	1600	1710	1680	1620	1560	1670	1870
6	1380	1500	1400	1430	1360	1360	1405	1380	1320	1310	1360	1580
Subcoil/Pancakes	1B/ 3,4 4AB/ 7,8	1B/ 3,4 4AB/ 7,8	1B/ 11,12 1E/ 7,8	1G/ 7,8	1G/ 7,8	1G/ 7,8	1B/ 9,10 1E/ 5,6	1E/ 1,2 1E/ 11,12	1E/ 1,2 1E/ 11,12	1A/ 1,2	1A/ 1,2	1F/ 3,4 1F/ 1,2

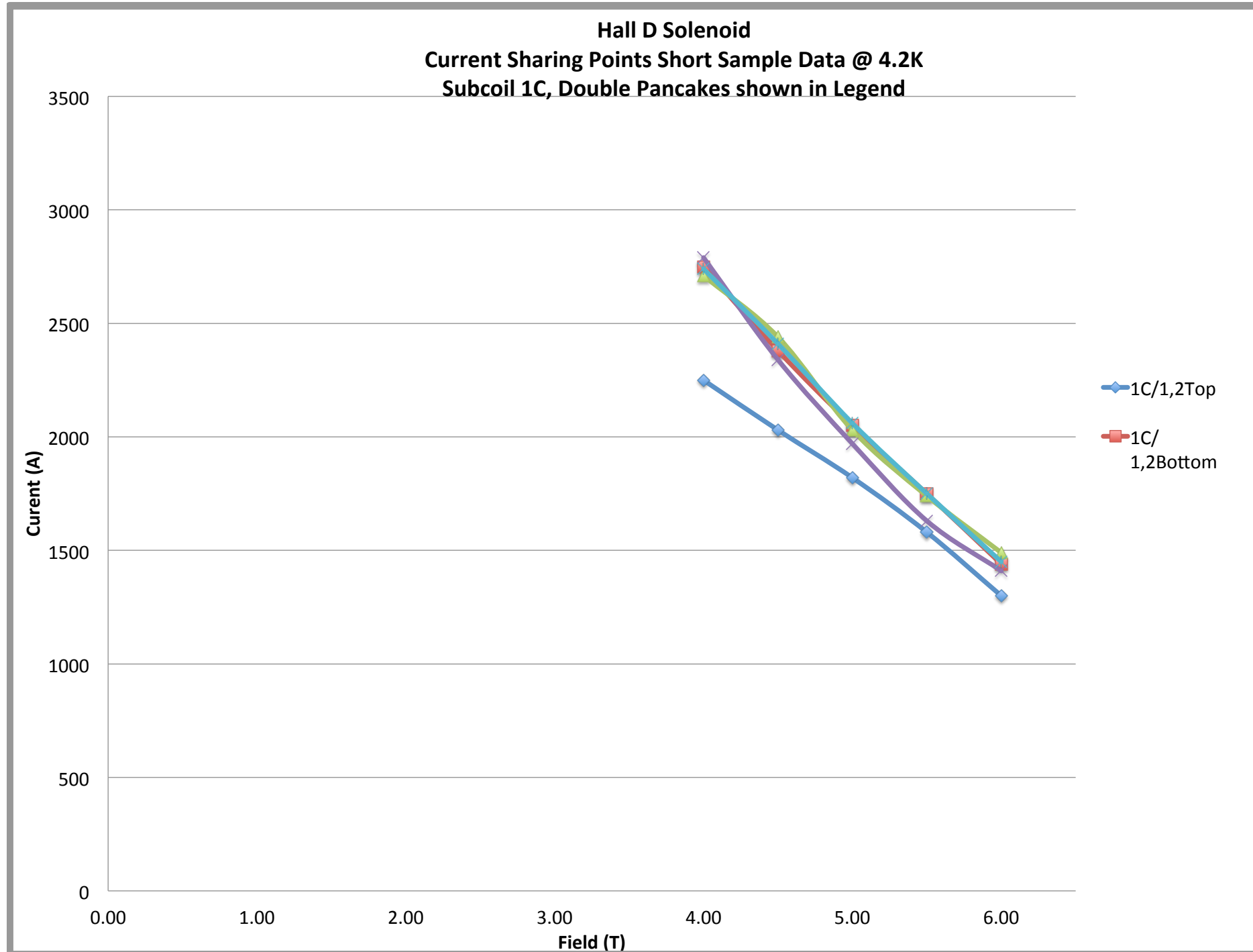
Reel Number	41	41	31	31	42	1A	1A	35
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	No Data	Transverse	Transverse	Transverse
Subcoil/Pancakes	1A/ 1,2Top / 1,2Bottom		1A/ 3,4Top / 3,4Bottom		1A/ 5,6	1A/ 7/8Top / 7/8Bottom 9,10Bottom		
4	2390	2680	2770	2820		3360	3050	2775
Field	4.5	2125	2320	2430	2490	3100	2820	2410
(T)	5	1825	1980	2115	2150	2850	2410	2060
	5.5	1560	1670	1700	1850	2380	2040	1770
	6	1310	1360	1505	1570	1890	1745	1450



Reel Number	4	4	36	36	36	3A	34	34	39	37	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	1B/ 1,2Top 3/ 1,2Bottom	1B/ 3,4Top	1B/ 3,4Top 3/ 3,4Bottom 3/ 5,6Bottom	1B/ 7,8Top 3/ 7,8Bottom ' 9,10Bottom 1B/ 11,12Top							
	4	2610	2650	2640	2730	2760	3370	2520	2500	2625	2670
Field	4.5	2270	2200	2300	2280	2360	3150	2260	2210	2310	2360
(T)	5	1890	1810	2000	1980	2070	2730	1950	1880	2000	2040
	5.5	1640	1530	1710	1640	1760	2320	1680	1600	1710	1710
	6	1340	1380	1405	1380	1500	1900	1410	1310	1405	1400

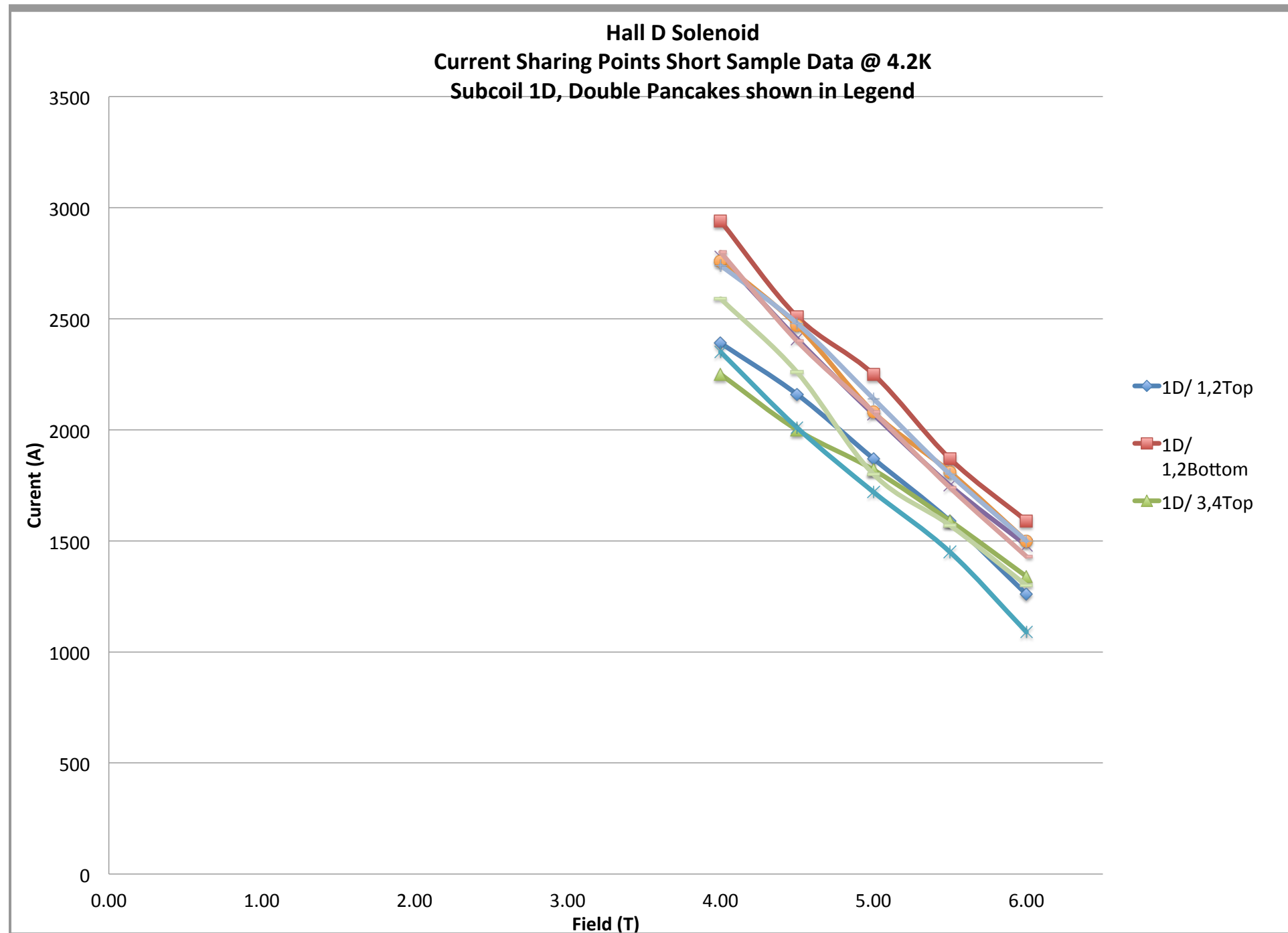


Reel Number	24	24	26	27	28	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	1C/1,2Top	1C/1,2Bottom	1C/ 3,4Top	1C/ 5,6Top	1C/ 7,8Top	
4	2250	2750	2710	2790	2740	
Field	4.5	2030	2380	2440	2340	2410
(T)	5	1820	2050	2030	1970	2060
	5.5	1580	1750	1740	1630	1750
	6	1300	1440	1490	1410	1450

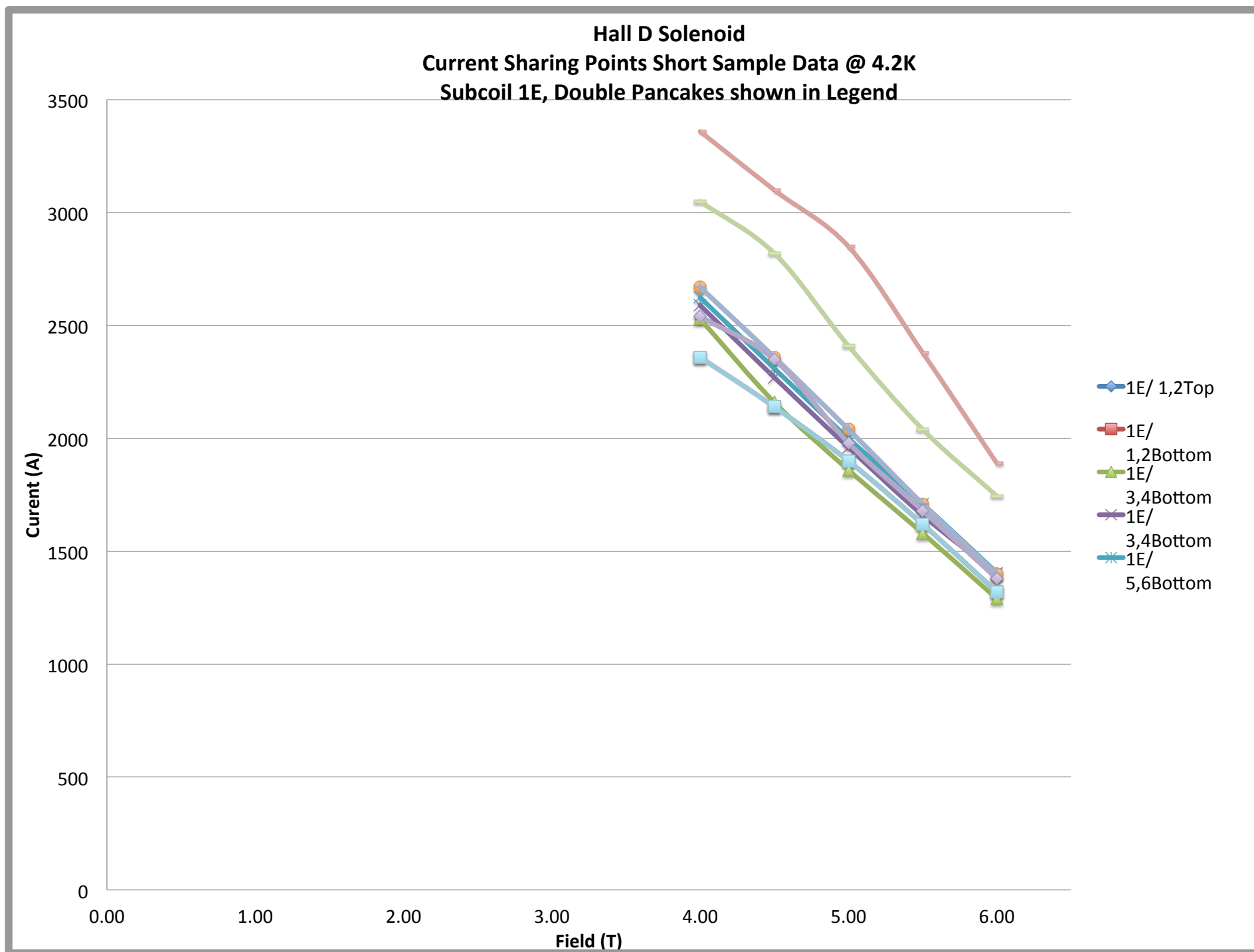


Reel Number	30	30	32	32	33	33	33	15	15	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	1D/ 1,2Top)/ 1,2Bottom		1D/ 3,4Top)/ 3,4Bottom		1D/ 5,6Top)/ 5,6Bottom)/ 5,6Bottom			1D/ 7,8Top)/ 7,8Bottom		
4	2390	2940	2250	2780	2350	2760	2740	2800	2590	
Field	4.5	2160	2510	2000	2410	2010	2470	2480	2400	2260
(T)	5	1870	2250	1820	2070	1720	2080	2140	2080	1800
	5.5	1590	1870	1590	1750	1450	1810	1800	1740	1570
	6	1260	1590	1340	1480	1090	1500	1500	1430	1300

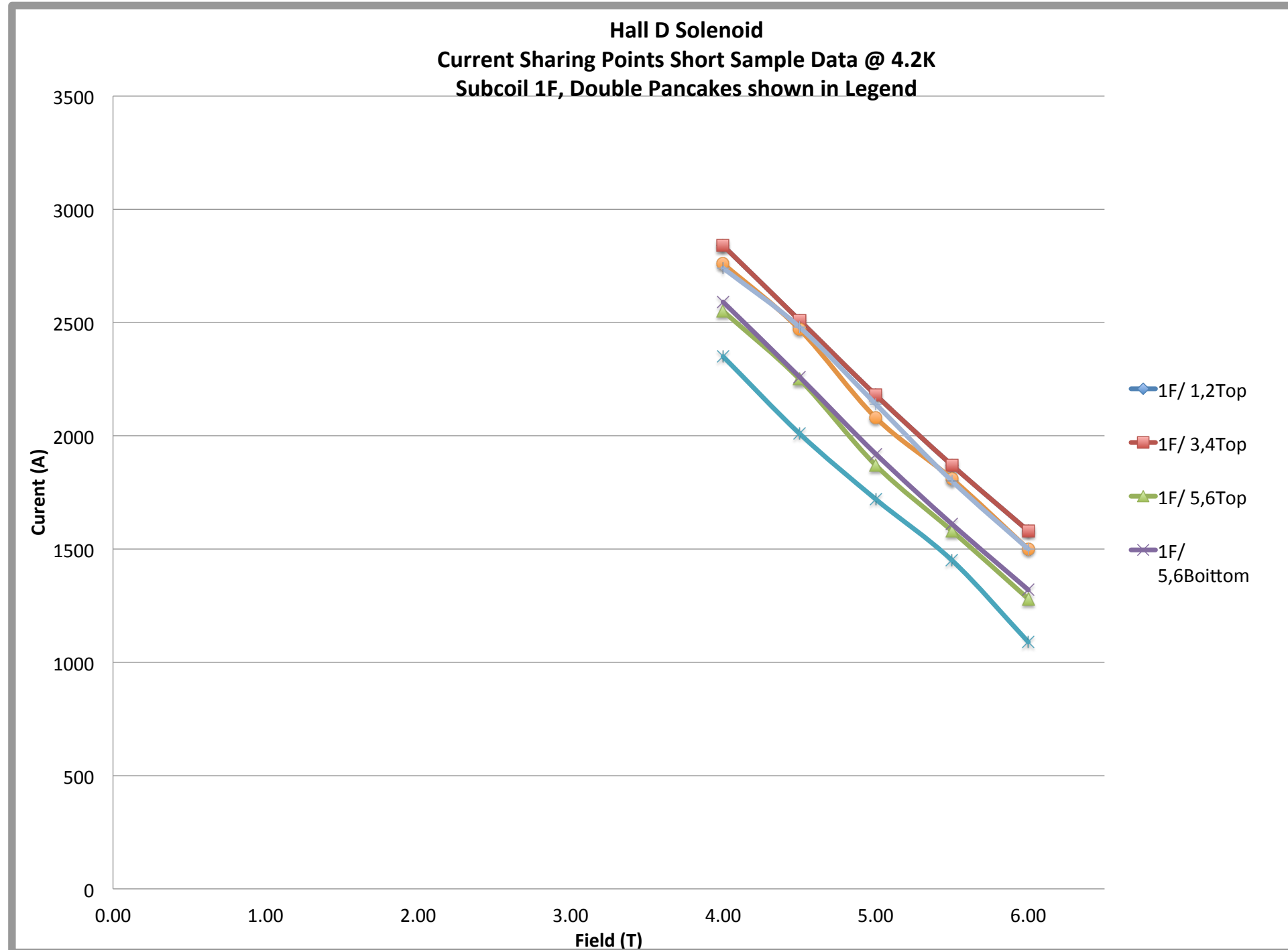
Questioned



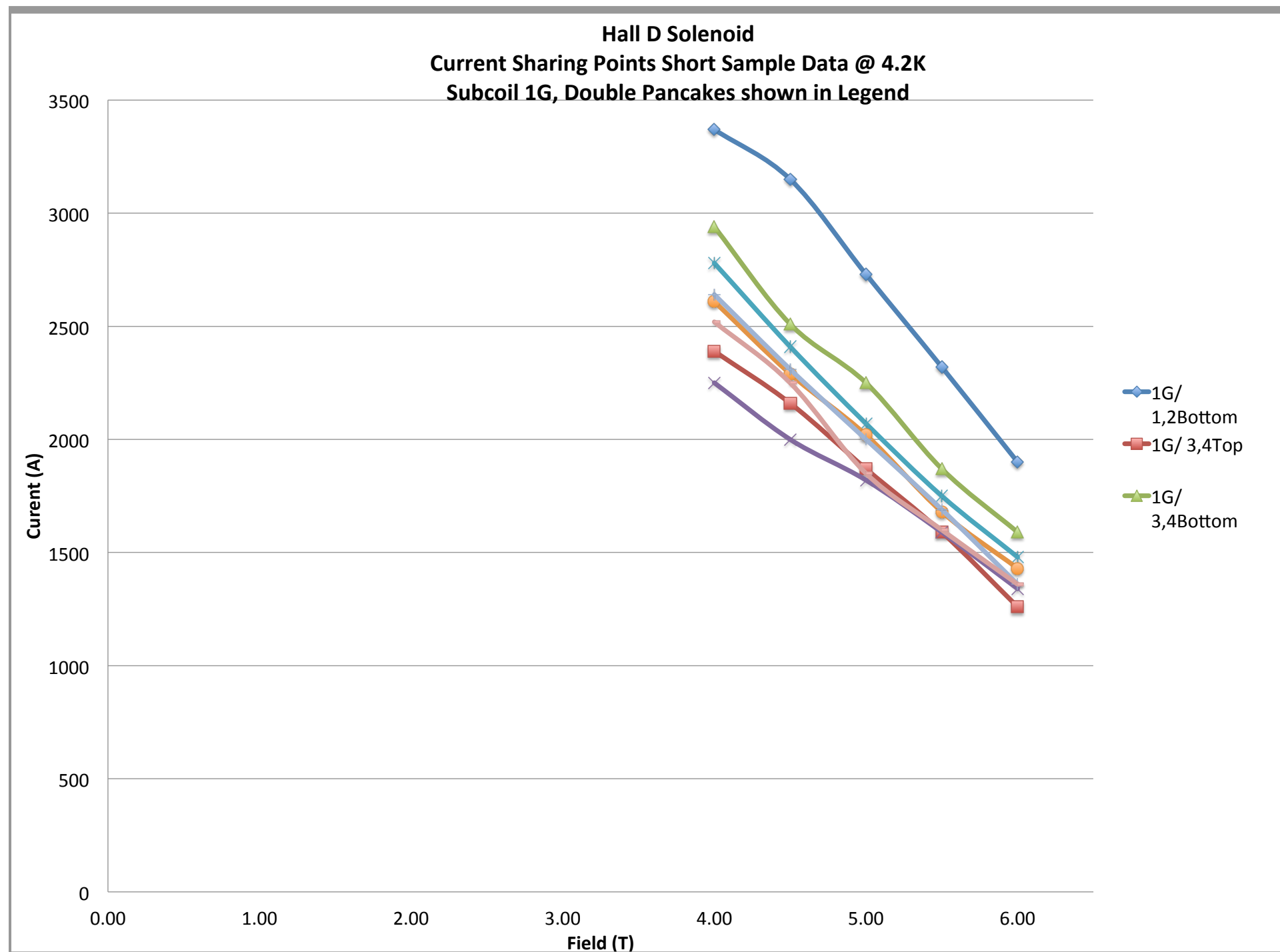
Reel Number	40	40	22	22	39	37	37 1A	1A	40	40		
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse		
Subcoil/Pancakes	1E/ 1,2Top	1E/ 1,2Bottom	1E/ 3,4Bottom	1E/ 3,4Bottom	1E/ 5,6Bottom	1E/ 7,8Top	1E/ 7,8Top	1E/ 9,10Top	1E/ 9,10Bottom	1E/ 11,12Top	1E/ 11,12Bottom	
4	2540	2360	2530	2590	2625	2670	2670	3360	3050	2540	2360	
Field (T)	4.5	2350	2140	2160	2270	2310	2360	2360	3100	2820	2350	2140
5	1980	1900	1860	1960	2000	2040	2040	2850	2410	1980	1900	
5.5	1680	1620	1580	1660	1710	1710	1710	2380	2040	1680	1620	
6	1380	1320	1290	1400	1405	1400	1400	1890	1745	1380	1320	



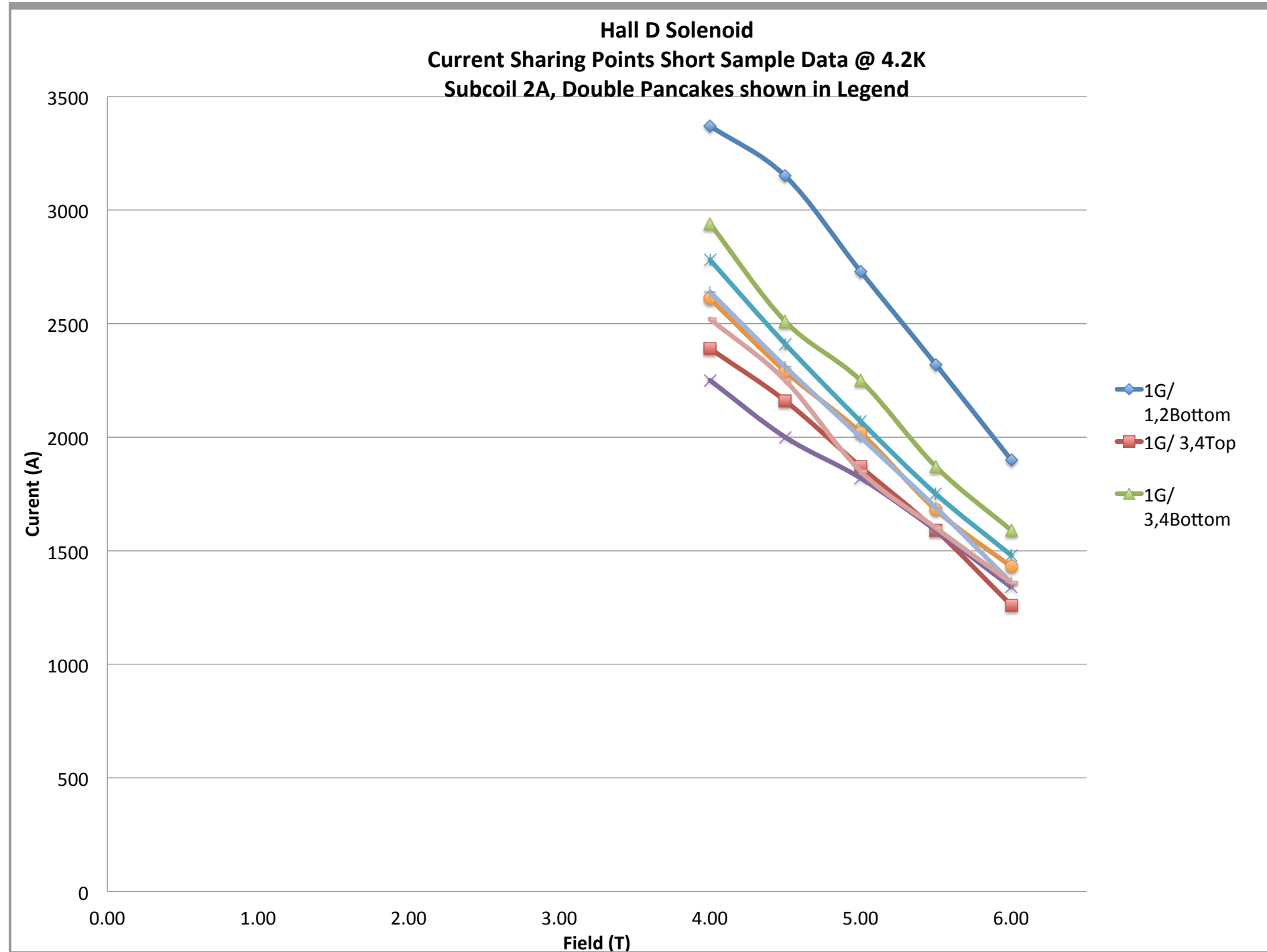
Reel Number	43	43	11	11	33	33	33	
Parallel/ transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	1F/ 1,2Top	1F/ 3,4Top	1F/ 5,6Top	1F/ 5,6Boitto	1F/ 7,8Top	1F/ 7,8Botto	1F/ 7,8Bottom	
4	2840	2840	2550	2590	2350	2760	2740	
Field (T)	4.5	2510	2510	2250	2260	2010	2470	2480
5	2180	2180	1870	1920	1720	2080	2140	
5.5	1870	1870	1580	1610	1450	1810	1800	
6	1580	1580	1280	1320	1090	1500	1500	



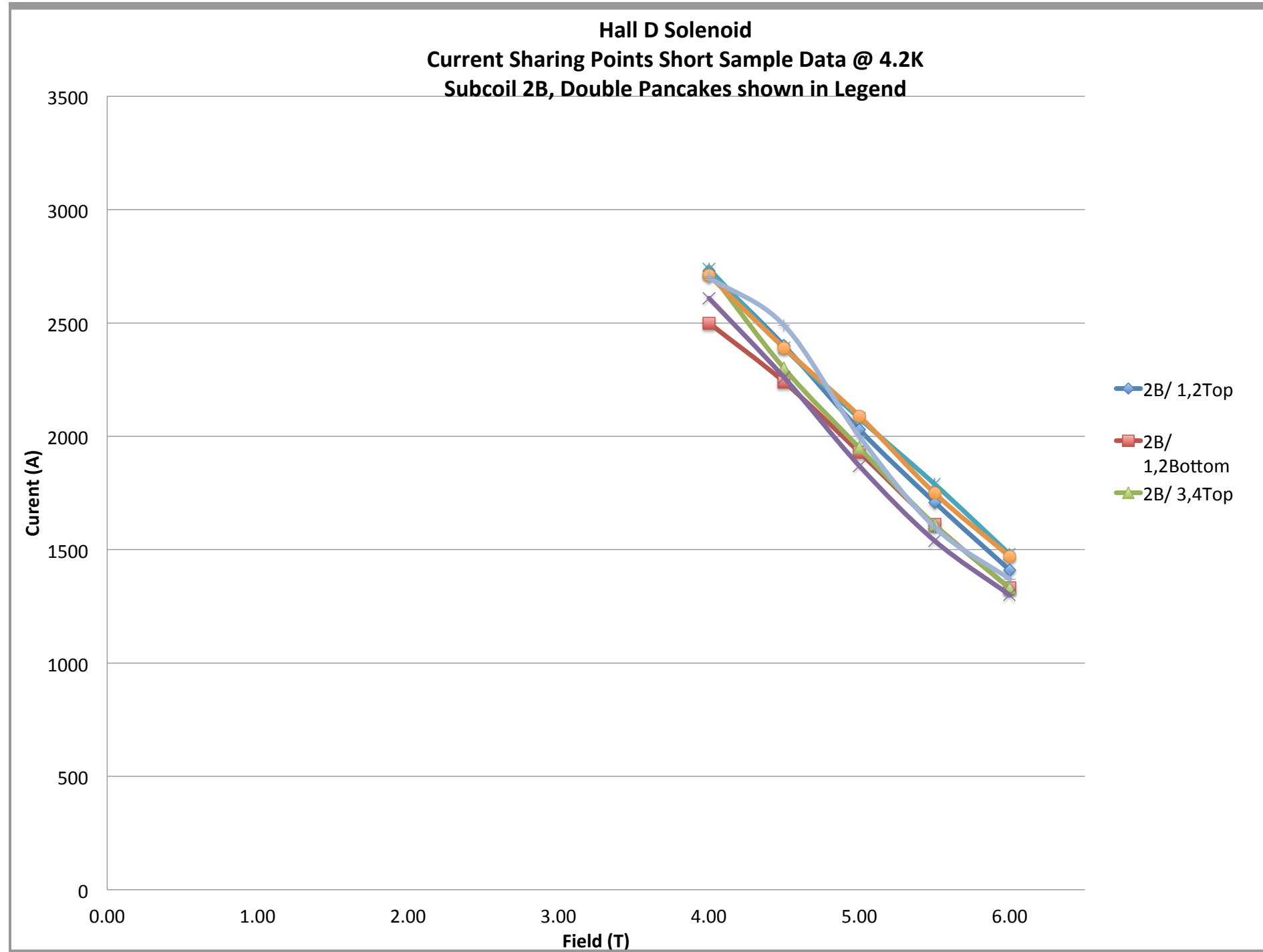
Reel Number	3A	30	30	32	32	38	38	38	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	1G/ 1,2Botto	1G/ 3,4Top	1G/ 3,4Botto	1G/ 5,6Top	1G/ 5,6Botto	1G/ 7,8Top	1G/ 7,8Top	1G/ 7,8Bottom	
4	3370	2390	2940	2250	2780	2610	2640	2520	
Field	4.5	3150	2160	2510	2000	2410	2290	2310	2250
(T)	5	2730	1870	2250	1820	2070	2020	2000	1850
	5.5	2320	1590	1870	1590	1750	1680	1690	1600
	6	1900	1260	1590	1340	1480	1430	1360	1360



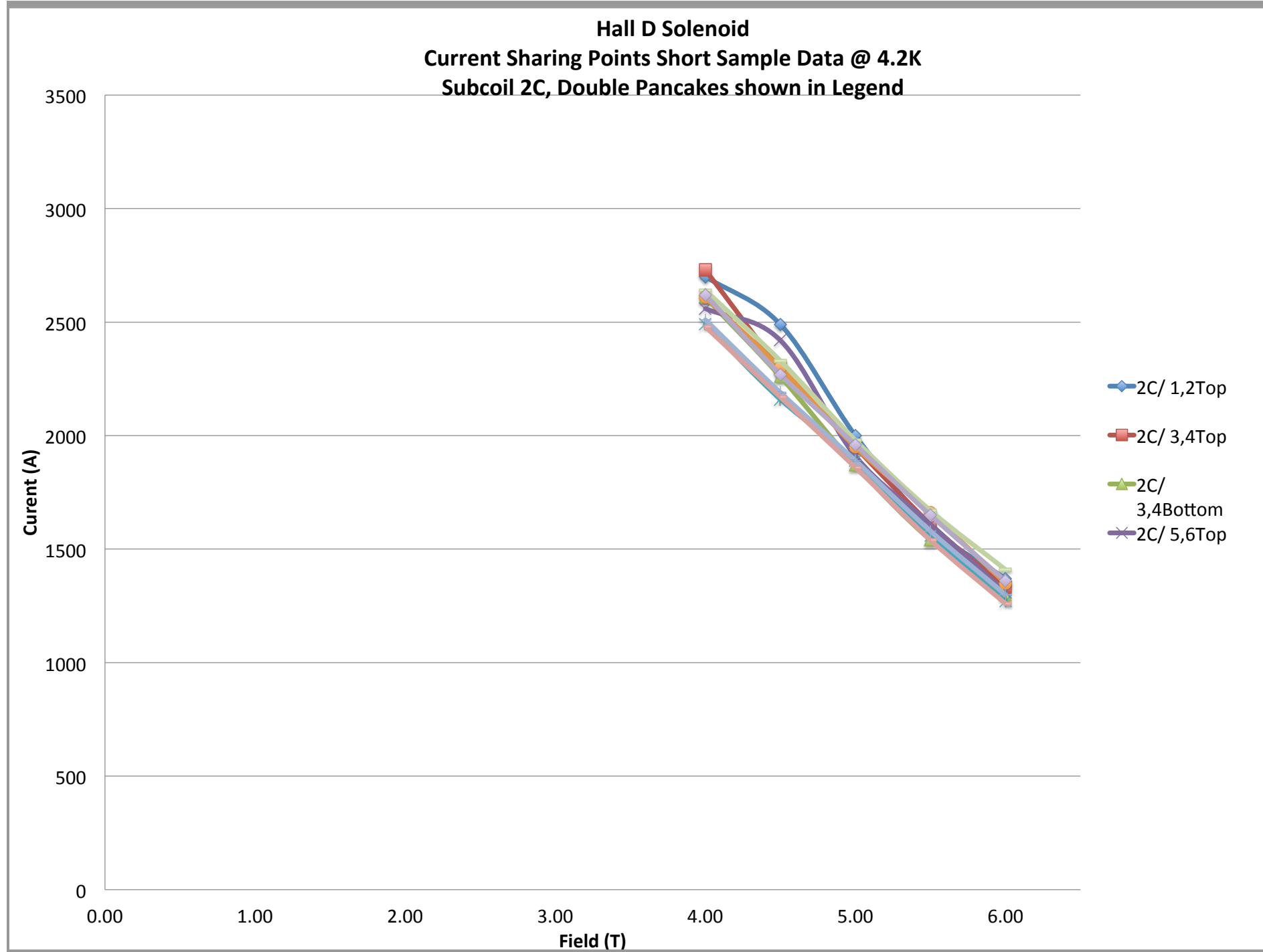
Reel Number	23	24	24	25	26	27	28
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse
Subcoil/Pancakes	2A/ Top	2A/ 3,4Top	2A/ 3,4Botto	2A/ 5,6Top	2A/ 7,8Top	2A/ 9,10Top	2A/ 11,12Top
4	2520	2250	2750	2730	2710	2790	2740
Field	4.5	2250	2030	2380	2490	2440	2340
(T)	5	1920	1820	2050	2110	2030	1970
	5.5	1650	1580	1750	1820	1740	1630
	6	1360	1300	1440	1500	1490	1410



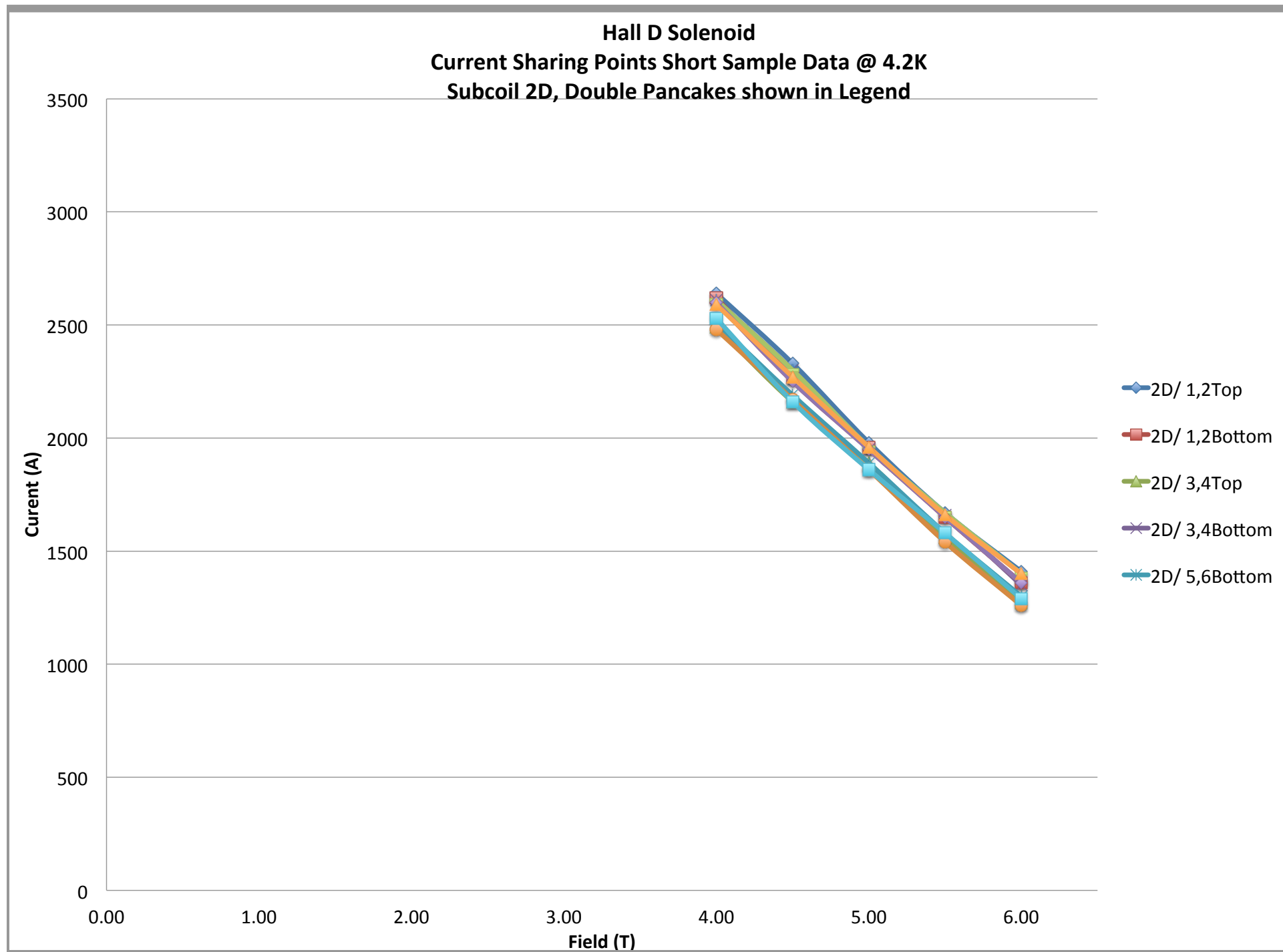
Reel Number	14	14	10	10	12	12	16	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	2B/ 1,2Top	2B/ 1,2Botto	2B/ 3,4Top	2B/ 3,4Botto	2B/ 5,6Top	2B/ 5,6Botto	2B/ 7,8Top	
4	2730	2500	2730	2610	2740	2710	2700	
Field	4.5	2400	2240	2300	2260	2390	2390	2490
(T)	5	2030	1930	1950	1870	2080	2090	2000
	5.5	1710	1610	1610	1540	1790	1750	1600
	6	1410	1330	1330	1300	1480	1470	1370



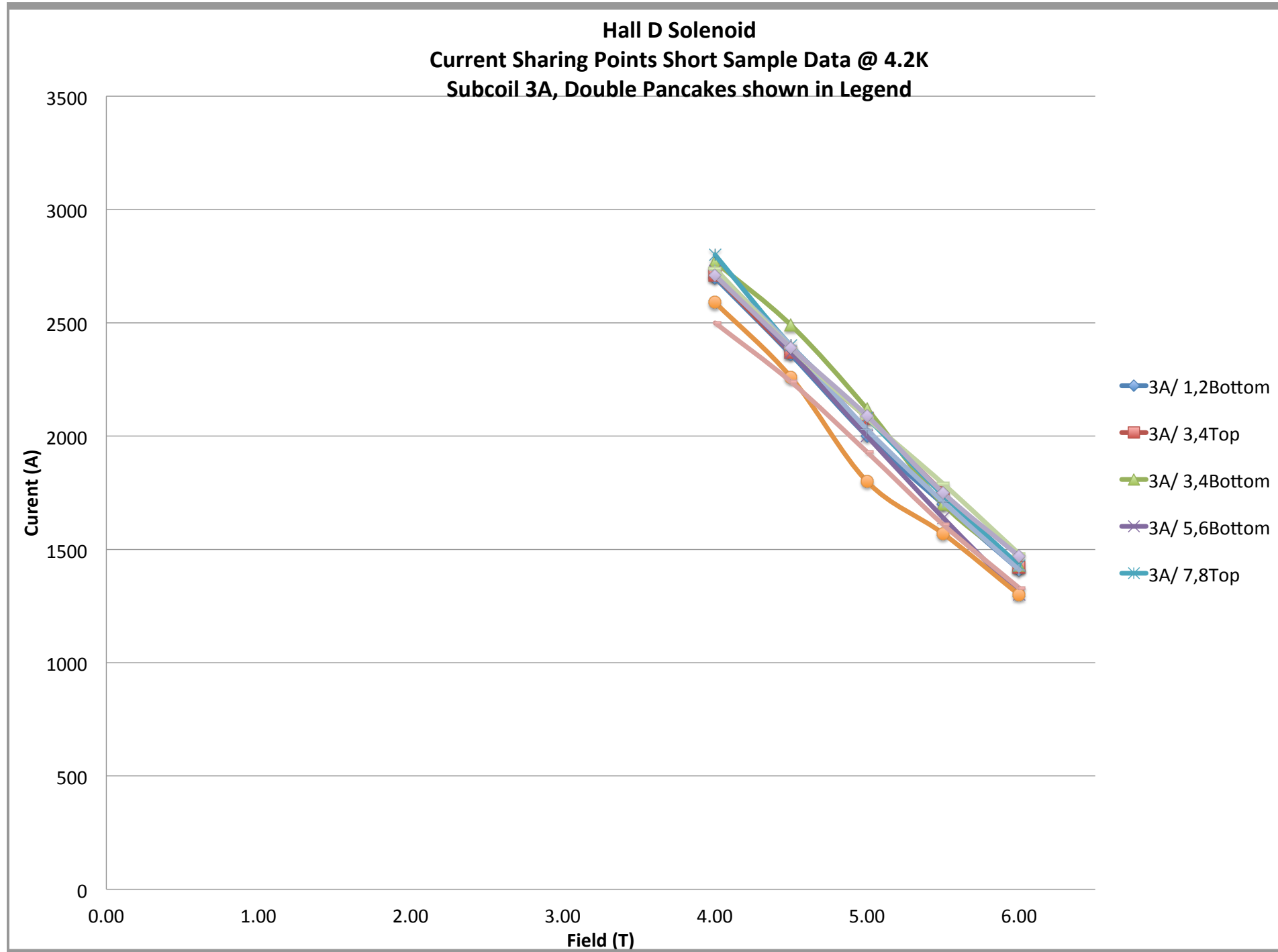
Reel Number	16	10	10	17	19	19	21	21	18	18	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	2C/ 1,2Top	2C/ 3,4Top	2C/ 3,4Botto	2C/ 5,6Top	2C/ 7,8Top	2C/ 7,8Botto	2C/ 9,10Bott	2C/ 9,10Bott	2C/ 11,12Top	2C/ 11,12Bottom	
4	2700	2730	2610	2560	2490	2610	2510	2480	2640	2620	
Field	4.5	2490	2300	2260	2420	2160	2300	2190	2170	2330	2270
(T)	5	2000	1950	1870	1910	1890	1950	1890	1860	1980	1960
	5.5	1600	1610	1540	1610	1560	1660	1580	1540	1670	1650
	6	1370	1330	1300	1310	1270	1350	1300	1260	1410	1360



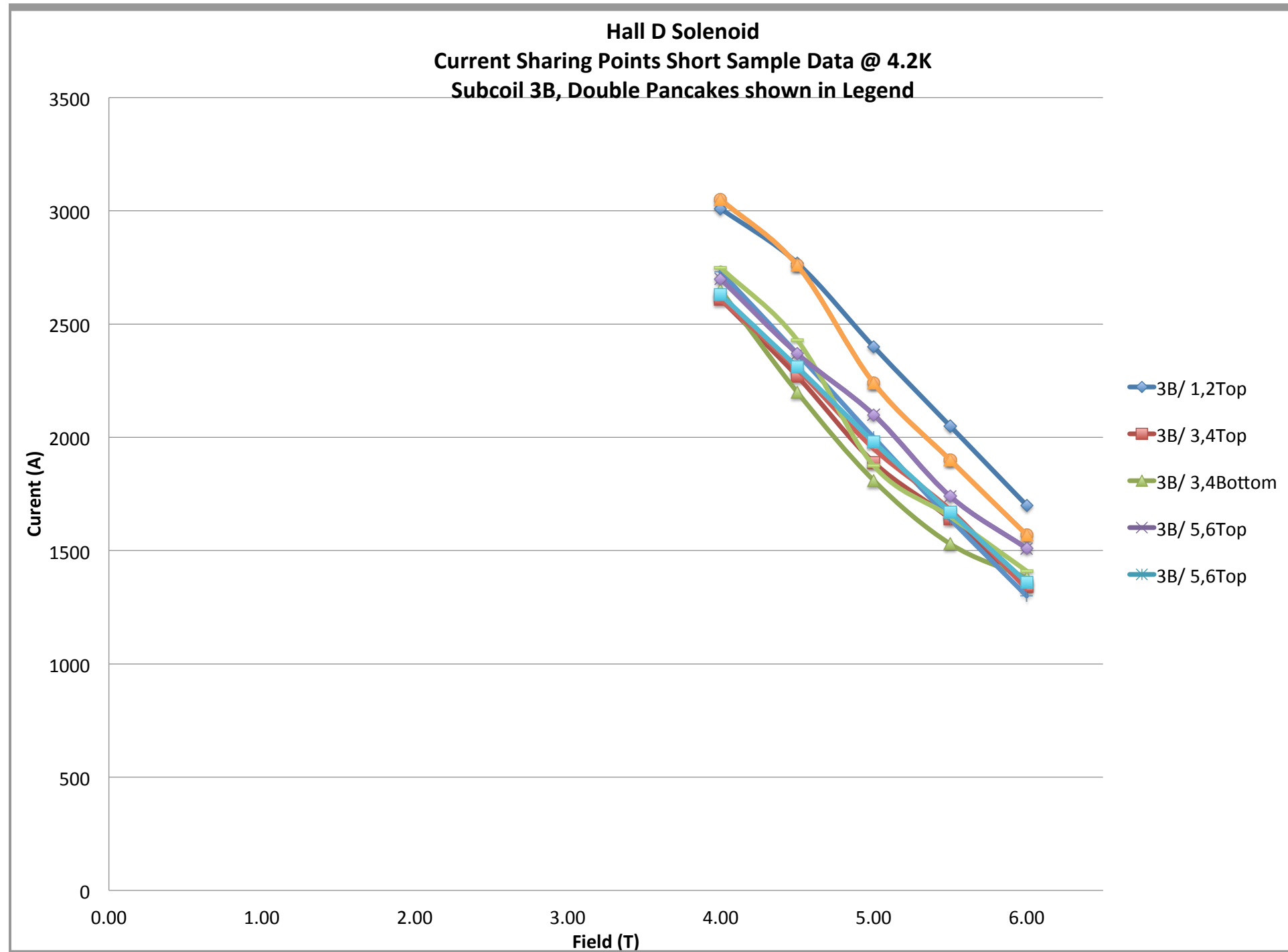
Reel Number	18	18	19	19	21	21	20	20	20	20	22	22	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	2D/ 1,2Top	2D/ 1,2Botto	2D/ 3,4Top	2D/ 3,4Botto	2D/ 5,6Botto	2D/ 5,6Botto	2D/ 7,8Top	2D/ 7,8Botto	2D/ 9,10Top	2D/ 9,10Bott	2D/ 11,12Bot	2D/ 11,12Bottom	
4	2640	2620	2490	2610	2510	2480	2610	2600	2610	2600	2530	2590	
Field (T)	4.5	2330	2270	2160	2300	2190	2170	2300	2250	2300	2250	2160	2270
5	1980	1960	1890	1950	1890	1860	1960	1950	1960	1950	1860	1960	
5.5	1670	1650	1560	1660	1580	1540	1670	1650	1670	1650	1580	1660	
6	1410	1360	1270	1350	1300	1260	1400	1360	1400	1360	1290	1400	



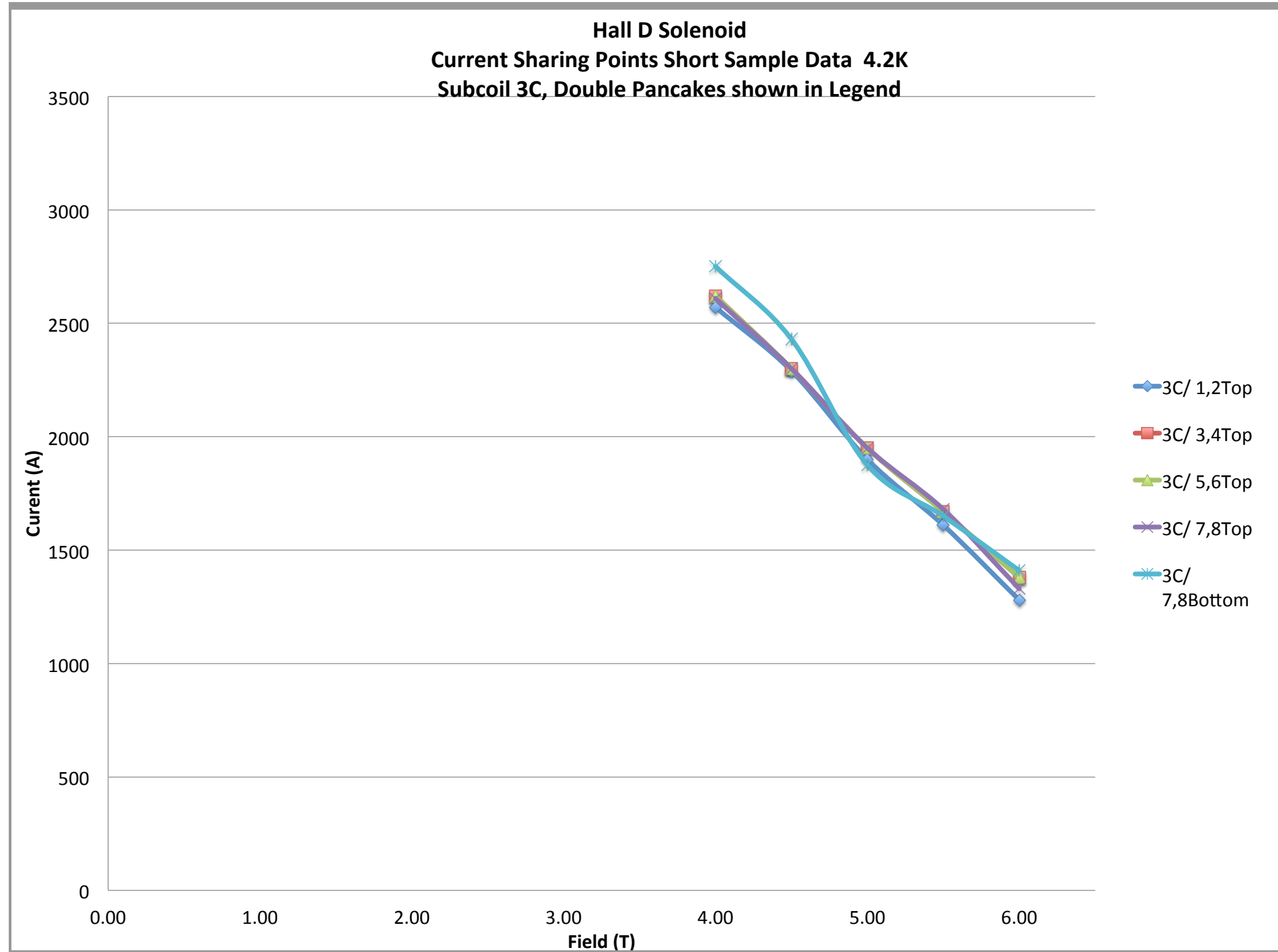
Reel Number	13	9	9	5	15	15	14	14	12	12
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse
Subcoil/Pancakes	3A/ 1,2Botto	3A/ 3,4Top	3A/ 3,4Botto	3A/ 5,6Botto	3A/ 7,8Top	3A/ 7,8Botto	3A/ 9,10Top	3A/ 9,10Bott	3A/ 11,12Top	3A/ 11,12Bottom
4	2700	2710	2770	2730	2800	2590	2730	2500	2740	2710
Field 4.5	2360	2370	2490	2370	2400	2260	2400	2240	2390	2390
(T) 5	2000	2080	2120	2000	2080	1800	2030	1930	2080	2090
5.5	1700	1750	1700	1640	1740	1570	1710	1610	1790	1750
6	1410	1420	1430	1300	1430	1300	1410	1330	1480	1470



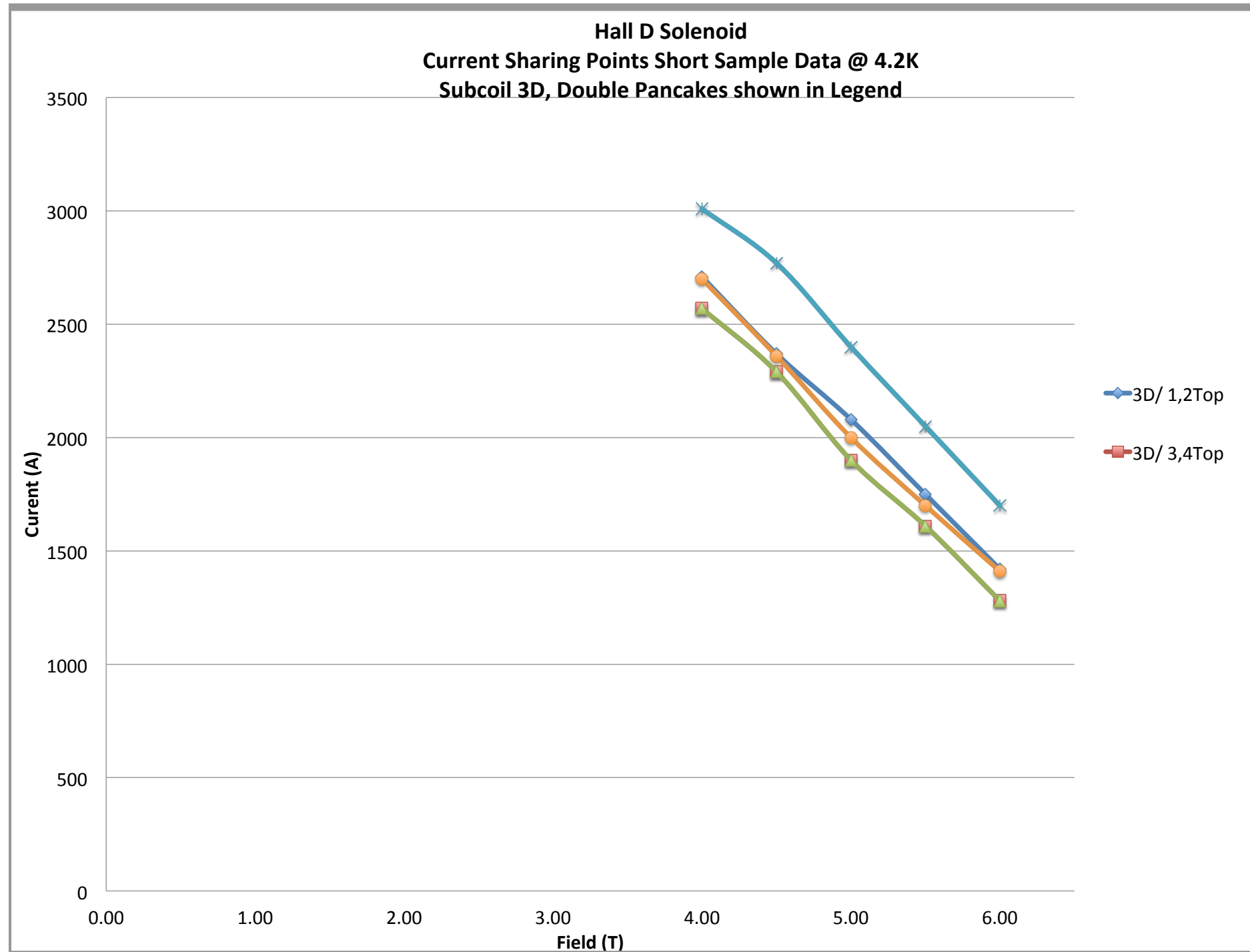
Reel Number	3	4	4	1	1	1	5	6	6	1	1	1	
Transverse/parallel	Transverse	Transverse	Transverse	Parallel	Transverse	Parallel	Transverse	Transverse	Transverse	Parallel	Transverse	Parallel	
Subcoil/Pancakes	3B/ 1,2Top	3B/ 3,4Top	3B/ 3,4Bottom	3B/ 5,6Top	3B/ 5,6Top	3B/ 5,6Bottom	3B/ 7,8Bottom	3B/ 9,10Top	3B/ 9,10Bottom	3B/ 11,12Top	3B/ 11,12Top	3B/ 11,12Bottom	
4	3010	2610	2650	2700	2630	3050	2730	2610	2750	2700	2630	3050	
Field	4.5	2770	2270	2200	2370	2310	2760	2370	2300	2430	2370	2310	2760
(T)	5	2400	1890	1810	2100	1980	2240	2000	1950	1875	2100	1980	2240
	5.5	2050	1640	1530	1740	1670	1900	1640	1680	1650	1740	1670	1900
	6	1700	1340	1380	1510	1360	1570	1300	1330	1410	1510	1360	1570



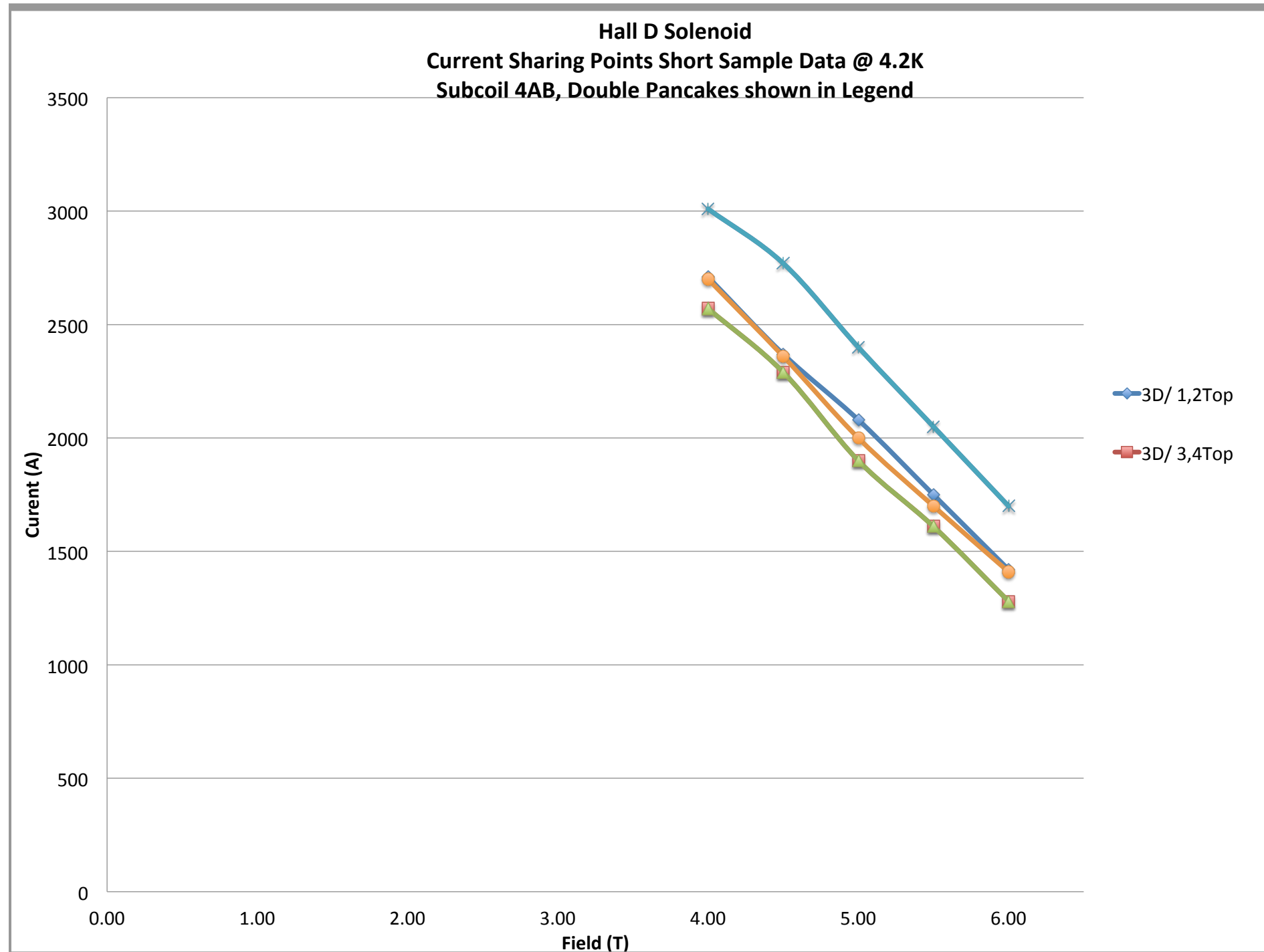
Reel Number		7	8	8	6	6
Transverse/parallel		Transverse	Transverse	Transverse	Transverse	Transverse
Subcoil/Pancakes		3C/ 1,2Top	3C/ 3,4Top	3C/ 5,6Top	3C/ 7,8Top	3C/ 7,8Bottom
	4	2570	2620	2620	2610	2750
Field	4.5	2290	2300	2300	2300	2430
(T)	5	1900	1950	1950	1950	1875
	5.5	1610	1670	1670	1680	1650
	6	1280	1380	1380	1330	1410



Reel Number	9	7	7	3	3	13	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	3D/ 1,2Top	3D/ 3,4Top	3D/ 5,6Top	3D/ 7,8Top	3D/ 9,10Top	3D/ 11,12Bottom	
4	2710	2570	2570	3010	3010	2700	
Field (T)	4.5	2370	2290	2290	2770	2770	2360
5	2080	1900	1900	2400	2400	2000	
5.5	1750	1610	1610	2050	2050	1700	
6	1420	1280	1280	1700	1700	1410	

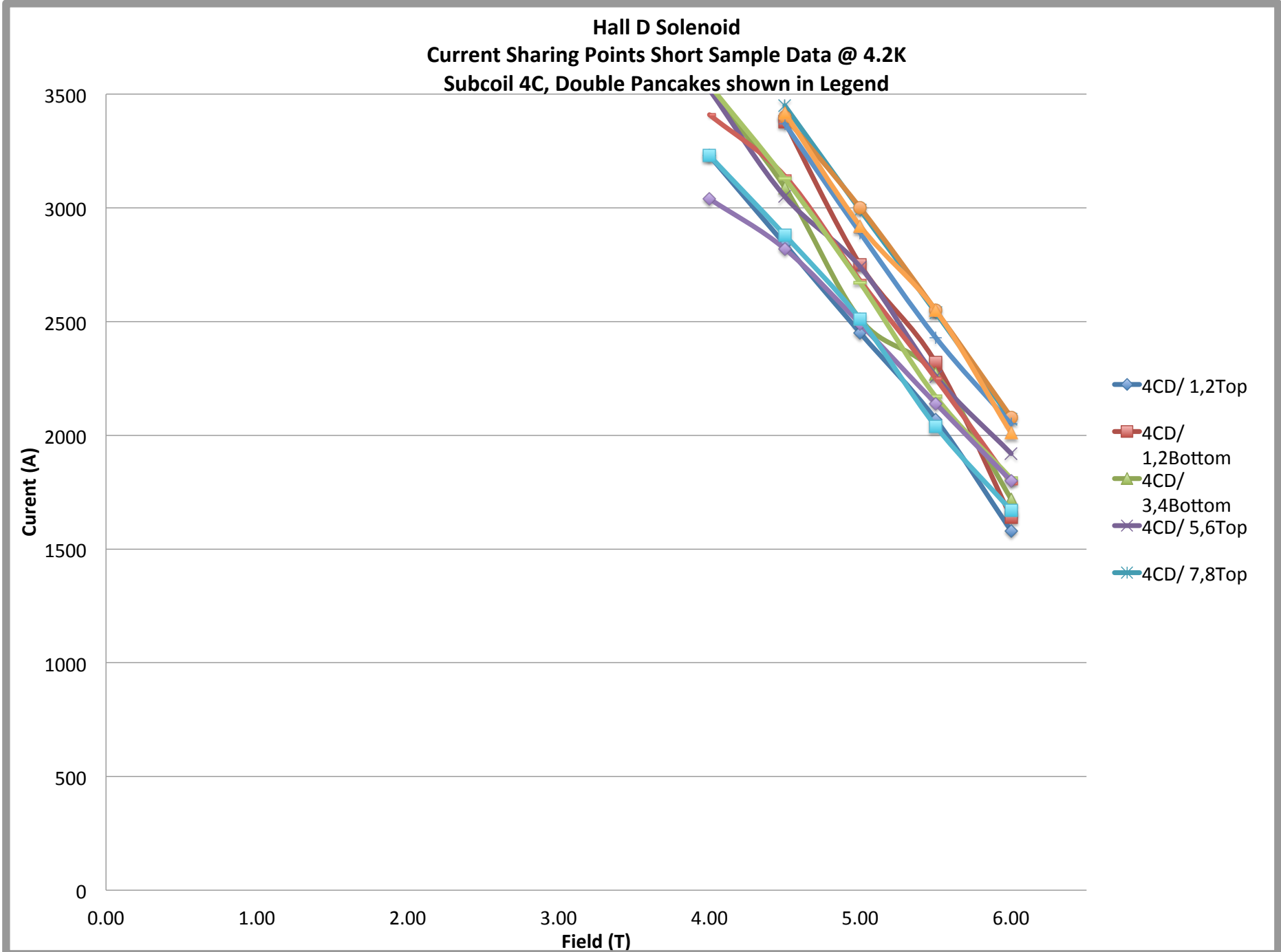


Reel Number	34	34	29	31	31	36	36	36	25	35	
Transverse/parallel	Transverse	Transverse	transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	4AB/ 1,2Top	4AB/ 1,2Bott	4AB/ 3,4Top	4AB/ 5,6Top	4AB/ 5,6Bott	4AB/ 7,8Top	4AB/ 7,8Top	4AB/ 7,8Bott	4AB/ 9,10Top	4AB/ 11,12Bottom	
4	2520	2500	3050	2770	2820	2640	2730	2760	2730	2775	
Field	4.5	2260	2210	2760	2430	2490	2300	2280	2360	2490	2410
(T)	5	1950	1880	2350	2115	2150	2000	1980	2070	2110	2060
	5.5	1680	1600	1970	1700	1850	1710	1640	1760	1820	1770
	6	1410	1310	1650	1505	1570	1405	1380	1500	1500	1450

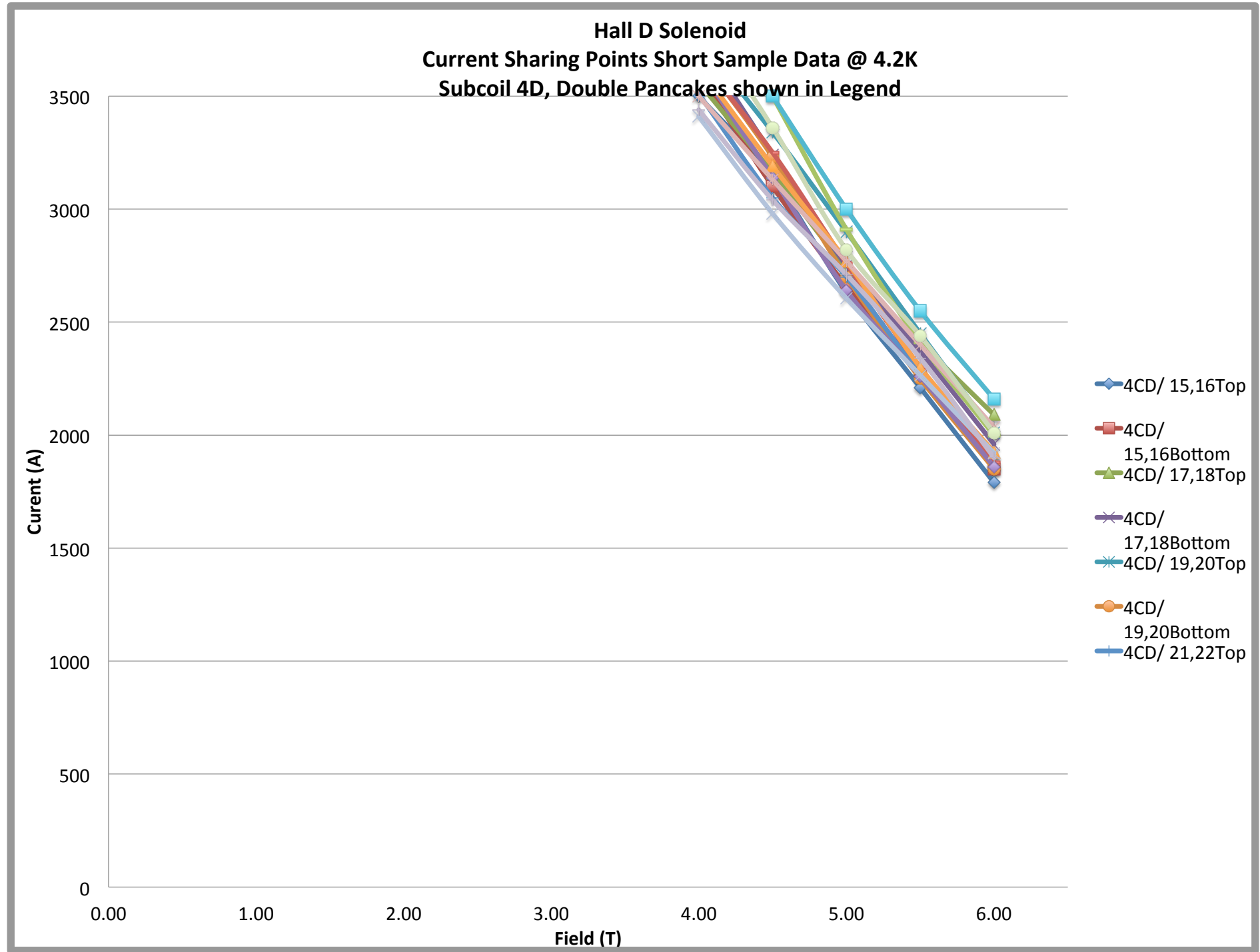


Reel Number	2A	2A	4A	5A	6A	6A	7A	7A	7A	8A	9A	9A	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	4CD/ 1,2Top	4CD/ 1,2Bott	4CD/ 3,4Bott	4CD/ 5,6Top	4CD/ 7,8Top	4CD/ 7,8Bott	4CD/ 9,10Top	4CD/ 9,10Bott	4CD/ 9,10Bott	4CD/ 11,12Bott	4CD/ 13,14Top	4CD/ 13,14Bottom	
Field (T)	4	3230	3380	3520	3520	3450	3400	3370	3140	3130	2820	2880	3420
	5	2450	2750	2510	2740	2990	3000	2890	2680	2670	2490	2510	2920
	5.5	2070	2320	2270	2260	2540	2550	2430	2250	2170	2140	2040	2550
	6	1580	1640	1720	1920	2070	2080	2050	1790	1810	1800	1670	2010

Odd test



Reel Number	10A	10A	11A	11A	12A	12A	13A	13A	14A	14A	15A	15A	16A	16A	17A	17A	
Transverse/parallel	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	Transverse	
Subcoil/Pancakes	4CD/ 15,16T	4CD/ 15,16B	4CD/ 17,18T	4CD/ 17,18B	4CD/ 19,20T	4CD/ 19,20B	4CD/ 21,22T	4CD/ 21,22B	4CD/ 23,24T	4CD/ 23,24B	4CD/ 25,26T	4CD/ 25,26B	4CD/ 27,28T	4CD/ 27,28B	4CD/ 29,30T	4CD/ 29,30Bottom	
Field (T)	4	3500	3600	3560	3740	3750	3680	3510	3670		3630		3630	3410	3500	3860	3440
	4.5	3140	3100	3160	3240	3340	3230	3050	3250	3500	3140	3500	3190	2980	3130	3360	3040
	5	2630	2660	2740	2750	2900	2700	2700	2760	2910	2640	3000	2770	2605	2770	2820	2710
	5.5	2210	2290	2410	2370	2450	2250	2270	2300	2410	2260	2550	2300	2265	2400	2440	2340
	6	1790	1850	2090	1960	2010	1850	1900	1880	2000	1860	2160	1925	1920	2035	2010	1900



SLAC SUBCONTRACT 515-S-959: SUPERCONDUCTOR FROM MCA 95
 CONDUCTOR LOG
 DATE: 2-23-73

NO	MCA	DATE SHIPPED	DATE REC'D	LENGTH A.R.	NET WT.	SHORT SAMPLE TESTS		USE IN COILS			COMMENTS	
						IDENT	DATE	O.K.	LENGTH	SECTION		LAYERS @ DONE
①	B162-1A	9-14-72 REPUBLIC CAROLINA	10-5-72	2080'		⊥ ?	10/25	✓	TOP 800'	3B	⑤+6	BAD ZONE ~980' FROM TOP.
②	B162-1B	9-14-72 REPUBLIC CAROLINA	10-5-72	2002'		⊥ IN	10/26	✓	422'	3B	11+12	BAD ZONE 415' IN. DELAMINATION REJECTED, RETURNED TO MC
③		P.I.E.	10-23-72	2002'		⊥ OUT	10/26	✓	770'	3B	①+2	SUSPICIOUS DEMO TEST B STL 1-73.
④	B163B	P.I.E.	10-23-72	2002'		⊥ IN	11/6	✓	~500'	3B	⑦+8	
⑤	B163C	P.I.E.	10-20-72	2106'		⊥ OUT	11/3	✓	~500'	3B	⑨+10	
⑥	B162-1C	P.I.E.	10-31-72	1880'	435#	⊥ IN	11/7	✓	770'	3B	⑦+8	
						⊥ OUT	11/6	✓	1090'	1B	⑤+6	
						⊥ IN	11/3	✓	~1200'	3A	⑦+8	
						⊥ IN	11/6	✓	770'	3B	⑤+6	
						⊥ OUT	11/7	✓	~730'	3C	⑨+10	
						⊥ IN	11/6	✓	~730'	3C	⑦+8	

S. AC SUB CONTRACT SIS-S-59: SUPERCONDUCTOR FROM MCI
CONDUCTOR LOG PAGE 2

2-23-73

N ^o	MCA	DATE SHIPPED	DATE RECD	SPOOL	LENGTH A.R.	WEIGHT	SHORT SAMPLE TESTS		USE IN COILS		COMMENTS		
							IDENT	DATE	O.K.	LENGTH		SECTION	LAYERS @ DONE
(7)	B172B	11/5/72 W.T.C. AIR FRONT	11/17/72	B	2000'		TOP	11-20	✓	770'	3C	(1x2)	IMPROVED SURFACE
(8)	B172C	11/5/72 W.T.C. AIR FRONT	11/17/72	B	1809'		TOP	11-20	✓	~730'	3C	(3x4)	"
(9)	B169-1A	11/8/72 W.T.C. AIR	11/10/72	B	2002'		TOP	11-28	✓	~500'	3D	(1x2)	
(13)	B169-B	11/17/72 W.T.C. AIR	11/17/72	B	2000'	713 [#]	TOP	11-29	✓	~1200'	3A	(3x4)	
(14)	B169C	11/17/72 W.T.C. AIR	11/17/72	B	2069'	752 [#]	TOP	11-28	✓	~1200'	3A	(9x10)	
(10)	164-1-B	11/11/72 P.I.E	11/28/72	B	2000' ?	705	TOP	12-5	✓	780	2B	(1x2)	
(11)	164-1-C	11/11/72 P.I.E	11/28/72	B	2000'	715	TOP	12-5	✓	860	2C	(3x4)	
(12)	169-A	11/11/72 P.I.E	11/28/72	B	2053	730	TOP	12-5	✓	1270	1F	(5x6)	INNER END SUSPECT.
							TOP	12-6	✓	~1240'	3A	(11x12)	
							TOP	12-6	✓	~780	2B	(5x6)	

5 AC SUBCONTRACT S15-5-45 SUPERCONDUCTOR FROM 1 CA
CONDUCTOR 206

2-23-73 PAGE 3

No.	MCA	DATE SHIPPED	DATE REC'D	GRADE	LENGTH A.R.	GROSS WT. #	SHORT SAMPLE TESTS		USE IN COILS		COMMENTS	
							IDENT	DATE	O.K.	LENGTH		SECTION
(15)	169A-			B	2000'	715 #	TOP	1-8-73	~1200'	3A	(7+8)	
(16)				B	2000'		BOT	1-8-73	480'	1D	(7+8)	
(17)	169C	11-22-72		B	2000'		TOP	1-11-73	~800'	2B	(7+8)	SURFACE IS TERRIBLE. TAKEN SOLDER UNDER MESH. SHOWS NO LEAD TO MCA.
(17)				B	1754'	650 #	BOT	1-8-73	~860'	2C	(1+2)	
(18)	171-A	11-27-72	12-15-72	B	2000'	738 #	TOP	1-9-73	~860'	2C	(5+6)	BAD "SLAC" CAUSE DECOMINATION ~100' FROM 2C5+6 LENGTH
(18)				B	2000'		BOT	1-11-73	~1030'	2D	(1+2)	
(19)	171-B	12-1-72	12-18-72	B	2000'	728	TOP	1-10-73	~860'	2C	(7+8)	
(19)				B	2120'	756'	BOT	1-11-73	~1030'	2D	(3+4)	
(20)	171-C	12-1-72	12-18-72	B	2000'	715	TOP	1-10-73	1030'	2D	(7+8)	
(20)				B	2000'		BOT	1-11-73	1030'	2D	(9+10)	
(21)	170-1-A	12-1-72	12-18-72	B	2000'	715	TOP	1-12-73	~1030'	2D	(5+6)	
(21)				B	2000'		BOT	1-10-73	~860'	2C	(9+10)	
(22)	170-1-B	12-1-72	12-18-72	B	2000'	715	TOP	1-11-73	1030'	2D	(1+12)	
(22)				B	2000'		BOT	1-12-73	850'	1E	(3+4)	

5 AC SUBCONTRACT 515-5-9 '9 SUPERCONDUCTOR FROM MCA
CONDUCTOR LOG

2-23-73 PAGE 4

No	MCA	DATE SHIPPED	DATE RECD	GRADE	LENGTH A.R.	GROSS WT.	SHORT SAMPLE TESTS		USE IN COILS		COMMENTS		
							IDENT	DATE	OK.	LENGTH		SECTION	LAYERS @ 0.001"
(23)	170-1-C	12-5-72	12-20-72	B	1900'	682 [#]	↓ TOP	1-16-73	✓	1230'	2A	(1+2)	
(24)	173A	12-5-72	12-20-72	B	2000'	710 [#]	↓ TOP	1-25-73	✓	1230'	2A	(3+4)	
(25)	173-C	12-8-72	12-20-72	B	2086'	740 [#]	↓ BOT	1-25-73	✓	710'	1C	(1+2)	
(26)	163-1-A	12-8-72	12-20-72	B	2000'	715 [#]	↓ TOP	2-6-73	✓	1230'	2A	(7+8)	TOP + BOTTOM # 0.002
(27)	163-1-B	12-11-72	12-26-72	B	2000'	710 [#]	↓ BOT	2-6-73	✓	710'	1C	(3+4)	TRUNK TOOLING/MISCELL
(28)	170B	12-15-72	1-3-73	B	2000'	705	↓ TOP	2-7-73	✓	1230'	2A	(9+10)	
(29)	170C	12-15-72	1-3-73	B	2125'	738	↓ TOP	2-7-73	✓	710'	1C	(5+6)	
(30)	171-1	12-19-72	1-5-73	B	1920'	688 [#]	↓ TOP	2-7-73	✓	1230'	2A	(11+12)	3-23-73
							↓ BOT	3-1-73	✓	1130'	1A	(7+8)	
							↓ TOP	3-27-73	✓	850'	4A/B	(3+4)	
							↓ BOT			1380'	1C	(1+2)	
							↓ TOP			480'	1D		

LAC SUBCONTRACT 515-S-59: SUPERCONDUCTOR FROM MCA
CONDUCTOR LOG

2-23-73 PAGE 5

NO	MCA	DATE SHIPPED	DATE RECD	GRADE	LENGTH A.R.	GROSS WT.	SHORT SAMPLE TESTS			USE IN COILS		COMMENTS
							IDENT	DATE	O.K.	LENGTH	SECTION	
31	171-1	12-19-72 P.I.E.	1-5-73	B	2000'	710	TOP	2-7-73	✓	1130	1A	3x4
							BOT	2-6-73	✓	850	4A/B	5x6
32	171-1-C	12-21-72 P.I.E.	1-9-73	B	1958'	684 [#]	TOP	3-1-73	✓	1380	1G	5x6
							TOP	3-27-73	✓	480	1D	3x4
33	172-1-A	12-27-72 P.I.E. PRO. #067-046982	1-8-73	B	1950'	666 [#]	TOP	3-2-73	✓	1270	1F	7x8
							TOP	3-27-73	✓	480	1D	5x6
34	172-1-B	12-27-72 P.I.E. AS FOR REEL 33	1-8-73	B	2000'	702 [#]	TOP	4-1-73	✓	850	4A/B	1x2
							BOT	4-2-73	✓	1090	1B	7x8
35	172-1-C	1-2-73 PRO. #067-046875	1-12-73	B	2068'	718 [#]	TOP	3-2-73	✓	1130	1A	9x10
							BOT			850	4A/B	11x12
36	162-A		1-12-73	B	2000'		TOP	3-12-73	✓	1090	1B	3x4
							TOP	3-1-73	✓	850	4A/B	7x8
							BOT	2-6-73	✓			
37	162-B	1-4-73 P.I.E. PRO. #067-046573	1-17-73	B	2000'	700 [#]	TOP	3-28-73	✓	1090	1B	11x12
							TOP			850	1E	7x8
38	162-C	1-4-73 AS ABOVE	1-17-73	B	1873'	658 [#]	TOP	2-2-73	✓	1380	1G	7x8
							TOP	2-18-73	✓			

← TIGHT!

SLAC SUBCONTRACT S15-S-C-9: SUPERCONDUCTOR FROM N/A
CONDUCTOR LOG

2-23-73 PAGE 6

No	MCA	DATE SHIPPED	DATE REC'D	GRADE	LENGTH A.R.	GROSS WT.	SAPRI SAMPLE TESTS		USE IN COILS			COMMENTS		
							LOOSE	DATE	O.K.	LENGTH	SECTION		LAYERS @ DONE	
(39)	173B	1-12-73	2-15-73	B	2000'	700#	+	BOT	3-27-73	✓	1090	1B	(9x10) (5x6)	MCA REPAIRS
(40)	170A	1-12-73	1-25-73	B	2000'	704#	+	BOT	3-27-73	✓	1850	1E	(11x12) (1x2)	
(41)	163H-C	1-12-73	1-25-73	B	1200' + 500'	504#	+	TOP	4-2-73	✓	1130	1A	(1x2)	
(42)	172A	2-21-73	3-8-73	B	1450'	556#	+	BOT	4-2-73	✓	1130	1A	(5x6)	2000', BUT 500' IS POOR SOLDER BUND.
(43)	173-1	2-13-73	2-26-73	B	2568'	830#	+	TOP	7-28-73	✓	1270	1F	(3x4) (1x2)	5 NUGS
(44)	ALIAS GRADE No. 1			A	2100'						850	1E	(9x10) (7x8)	
(45)	ALIAS GRADE AN=3			A	2505'						1380 1090	1G 1B	(1x2) (5x6)	5 NUGS

56 AC SUBCONTRACT 515-5-959: SUPERCONDUCTOR F. M. F.
CONDUCTOR 494

No	MCA	DATE SHIPPED	DATE RECD	QTY	LENGTH A.B.	GROSS W.T.	SHORT SAMPLE TESTS		USE IN COILS		COMMENTS	
							IDENT	DATE O.K.	LENGTH	SECTION		LAYERS @ = ROME
①	168-1-A	1-23-73	2-2-73	A	2100	715	TOP	3-28-73	850	1E	⑨+10	
							BOT	3-22-73	1130	1A	⑦+8	
②	166-A	1-23-73	2-2-73	A	2100	715	TOP	3-28-73	2100	4C/D	①+2	5-28-73
							BOT	3-28-73				
③	166-B	1-23-73	2-2-73	A	2505	820	BOT	3-28-73	1380	1G	①+2	
									1090	1B	⑤+6	
④	168-1-B	1-23-73	2-2-73	A	2325	77	BOT	4-3-73	2100	4C/D	③+4	
⑤	168-A	2-2-73	2-16-73	A	2100	715	BOT	4-6-73	2100	4C/D	⑤+6	
							TOP	4-6-73				
⑥	168-B	2-2-73	2-16-73	A	2432	797	BOT	4-6-73	2100	4C/D	⑦+8	
							TOP	4-6-73				
⑦	165-1-A	2-2-73	2-16-73	A	2100	717	BOT	4-6-73	2100	4C/D	⑨+10	
							TOP	4-9-73				
⑧	165-1-B	2-2-73	2-16-73	A	2120	770	BOT	4-9-73	2100	4C/D	⑪+12	
							TOP	4-9-73				

SLAC SUBCONTRACT SI. S. 45D: SUPERCONDUCTOR FRD. MCA
CONDUCTOR LOG

N ^o	MCA	DATE SHIPPED	DATE REC'D.	GRADE	LENGTH A.R.	GROSS WT.	SHORT SAMPLE TESTS		USE IN COILS			COMMENTS	
							IDENT	DATE	O.K.	LENGTH	SECTION		LAYERS DONE
(9)	165A		2-26-73	A	2100		TOP	4-9-73	✓	2100'	4C/D	(13+14)	
(10)	165B		2-26-73	A	2354		BOT	4-9-73	✓	2100'	"	(15+16)	
(11)	173-1		2-26-73	A	2356		TOP	4-10-73	✓	2100'	"	(17+18)	TERRIBLE DIFFICULTY WINDING LATER 17! LATER LEANED OUT! SOAKED IN LOCKTITE, SMO ETC. 6 SNIFTS TO WIN.
(12)	166-1A	2-21-73	3-8-73	A	2100	718#	TOP	4-11-73	✓	2100'	"	(19+20)	
(13)	166-1B	3-5-73	3-20-73	A	2200	735#	BOT	4-11-73	✓	2100'	"	(21+22)	RECYCLED THRU MC SOLDERING LINE THICKENED SOLDER JOINT. SHORT SAMPLES O.K., THOUGH
(14)	167-1A	3-5-73	3-20-73	A	2100	695#	TOP	3-12-73	✓	2100'	"	(23+24)	
(15)	167-1B	3-5-73	3-20-73	A	2278	754#	BOT	3-12-73	✓	2100'	"	(25+26)	
(16)	167-A	3-5-73	3-20-73	A	2100	744#	TOP	4-16-73	✓	2100'	"	(27+28)	
(17)	167B	3-5-73	3-20-73	A	2407	810#	BOT	4-16-73	✓	2100'	"	(29+30)	

SUPERCONDUCTOR FROM MCA

TOTAL LENGTH OF GRADE B CONDUCTOR
SHIPPED, OR TO BE SHIPPED, FROM MCA

LENGTH NO:	LENGTH SUPPLIED	ACTUAL USED
1	2080	
3	2002	
4	2002	
5	2106	
6	1880	
7	2000	
8	1909	
9	2002	
10	2000	
11	2000	
12	2053	
13	2000	
14	2069	
15	2000	
16	2000	
17	1759	
18	2000	
19	2000	
20	2120	
21	2000	
22	2000	
23	1900	
24	2000	
25	2086	
26	2000	
27	2000	
28	2000	
29	2125	
30	1920	

SUPERCONDUCTOR FROM MCA

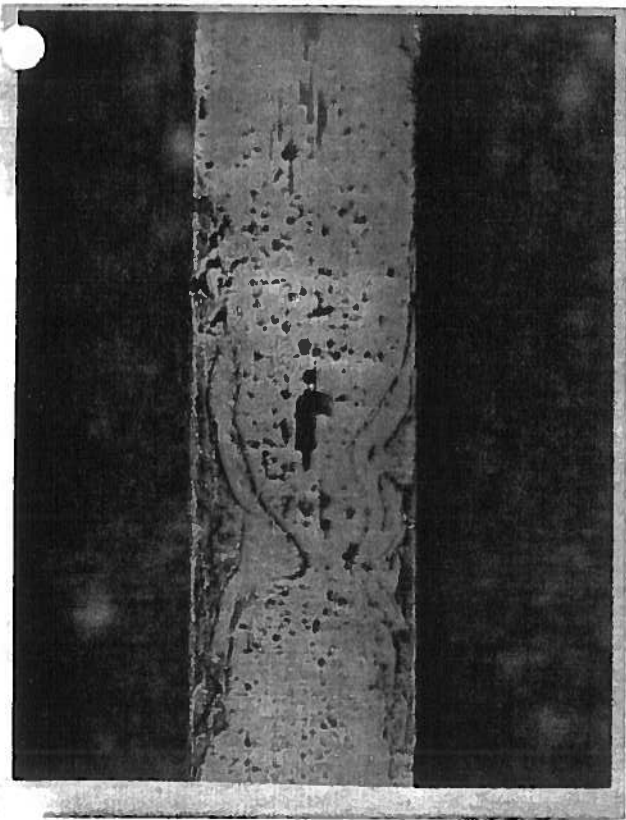
TOTAL LENGTH OF GRADE B CONDUCTOR
SHIPPED, OR TO BE SHIPPED, FROM MCA
(CONT.)

LENGTH	LENGTH SHIPPED	ACTUAL USED
31	2000	
32	1958	
33	1850	
34	2000	
35	2068	
36	2000	
37	2000	
38	2000	
39	2000	
40	2000	
41	1100	
	500	NOT USEABLE
42	1500	
43	<u>2400</u>	
	83284	

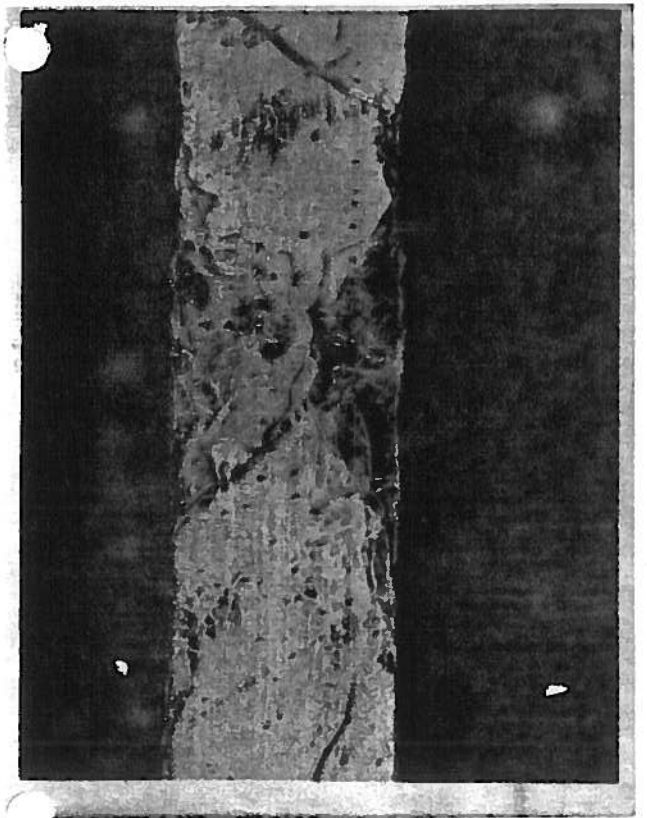
ADD'L
REQUIREMENT: 44 2000

85284

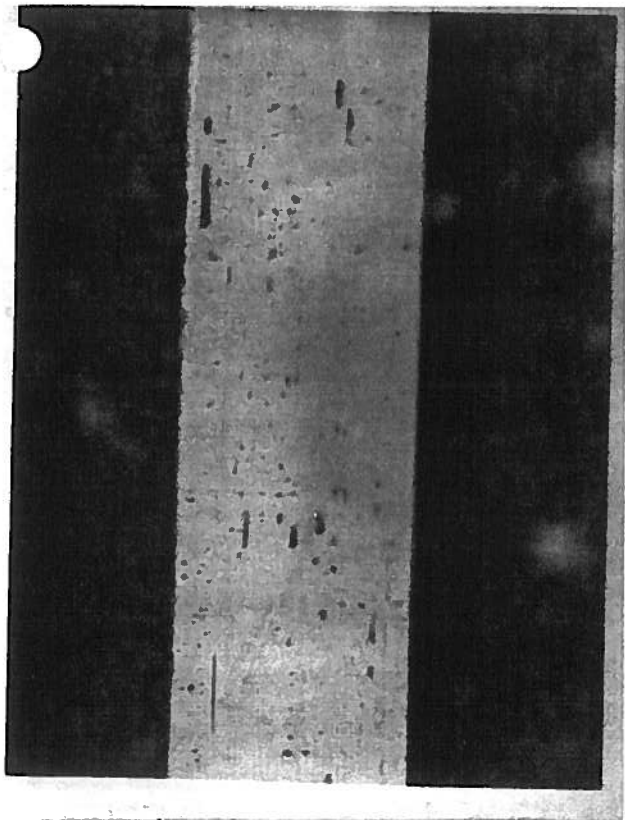
CONTRACT TOTAL = 84000 (24 x 2000')



#15 - 81.82



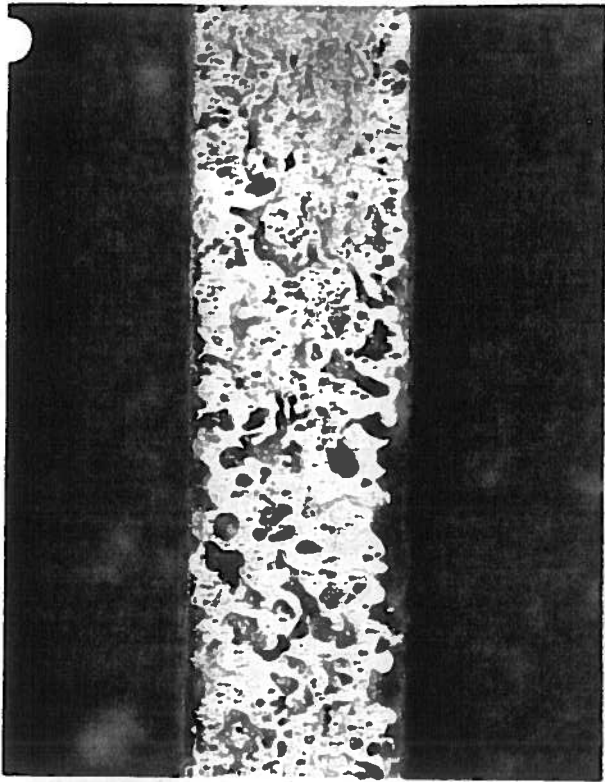
6 - 73.82



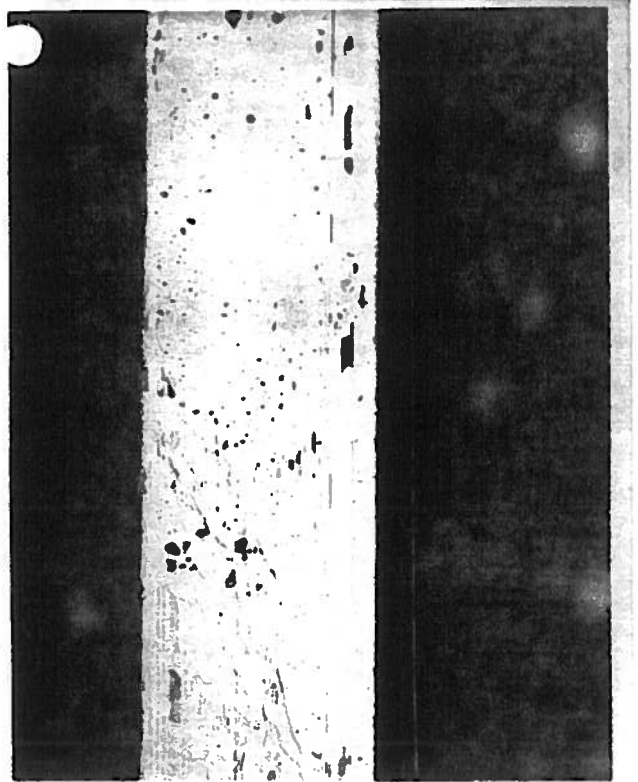
#11 - 92.47



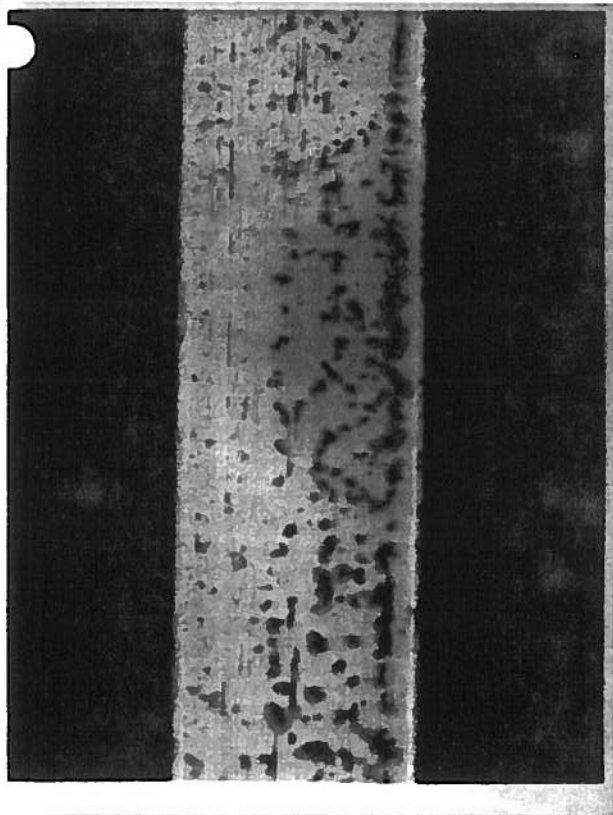
#10 - 89.92



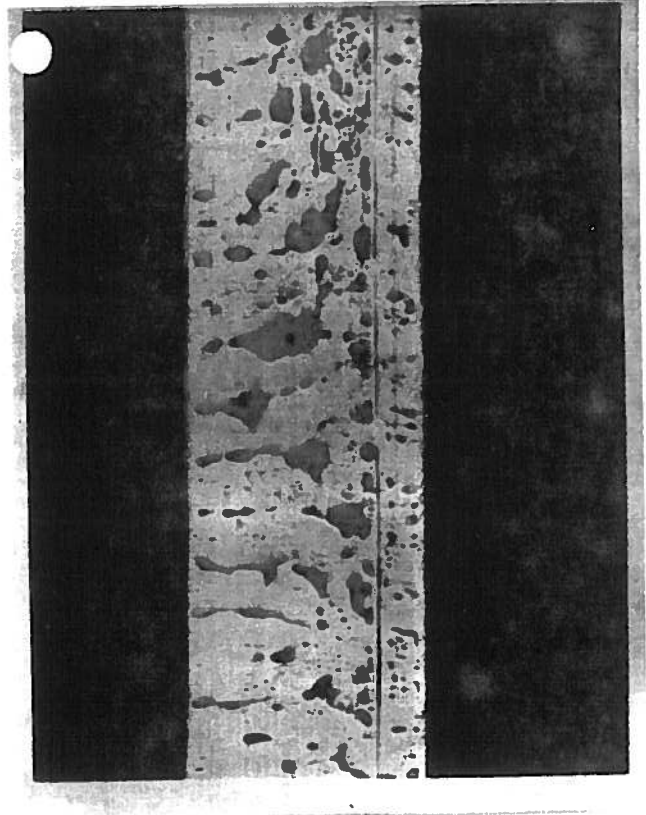
#2 - 63.0%



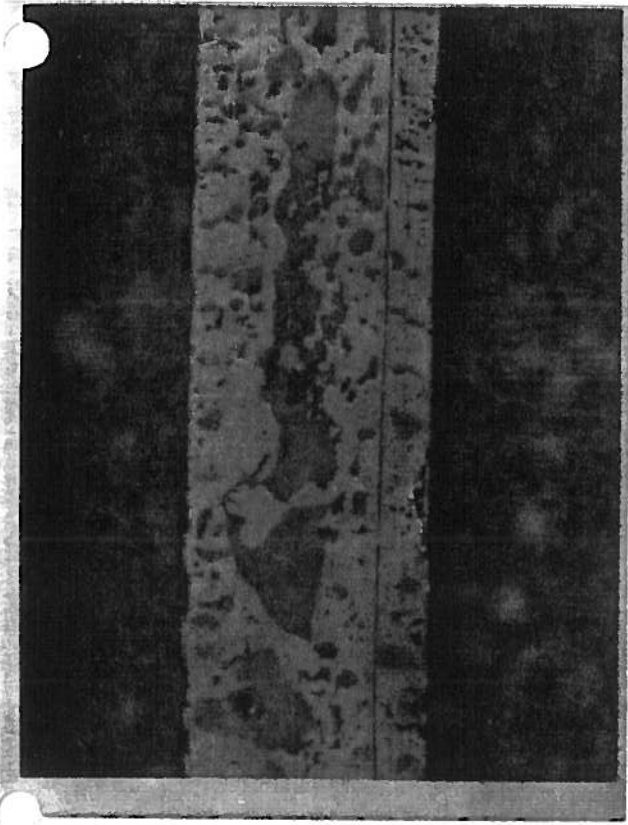
#4 - 94.2%



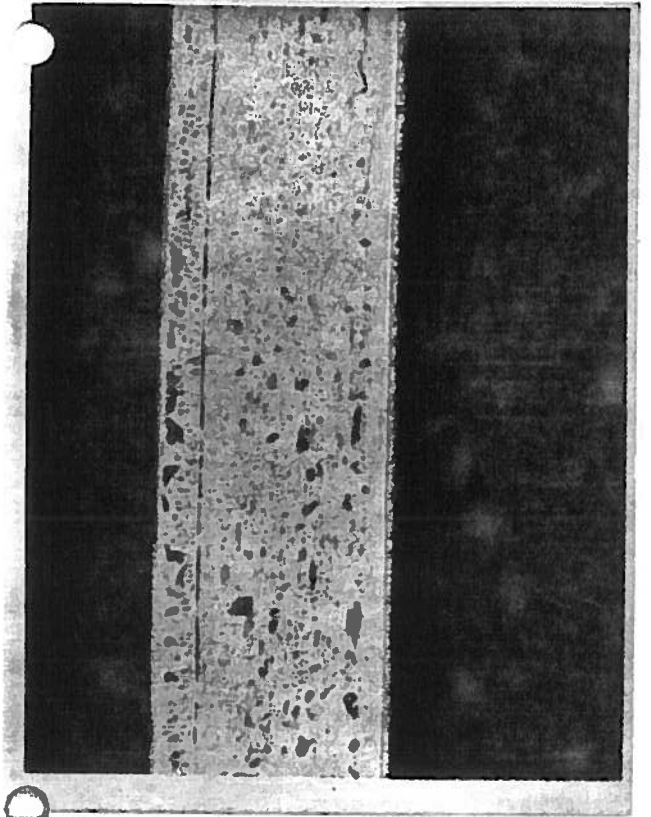
#14 - 86.3%



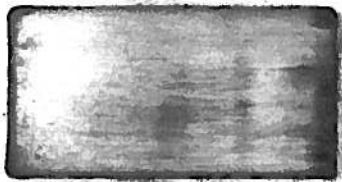
#9 - 70.3%



#13: 56.3%



#5 93.1%



Stanford Linear Accelerator Center

FROM 2575 Sand Hill Rd.
Menlo Park, California, 94305

Attn. Mr. Oscar Fleischer

Magnetic Corp. Of America
IO
Somerset Valley Industrial Campus
Howard Ave.

SUBJECT Shipment Of Kryo-Conductor Reels

Somerset, N. J. 08873

No. 9 & 10 FOLD 9-10-11-43

MESSAGE

DATE February 12 1973

Grade A Kryo-Conductor Reel # 9 165-A 2100 Ft. 718 lbs.

Grade A Kryo-Conductor Reel # 10 165-B 2354 Ft. 770 lbs.

Grade A Kryo-Conductor Reel # 11 173-1 2356 Ft. 780 lbs.

Grade B Kryo-Conductor Reel # 43 173-1 2568 Ft. 830 lbs.

SIGNED

Fred J. Guenther

REPLY

DATE

19

No. 9 FOLD

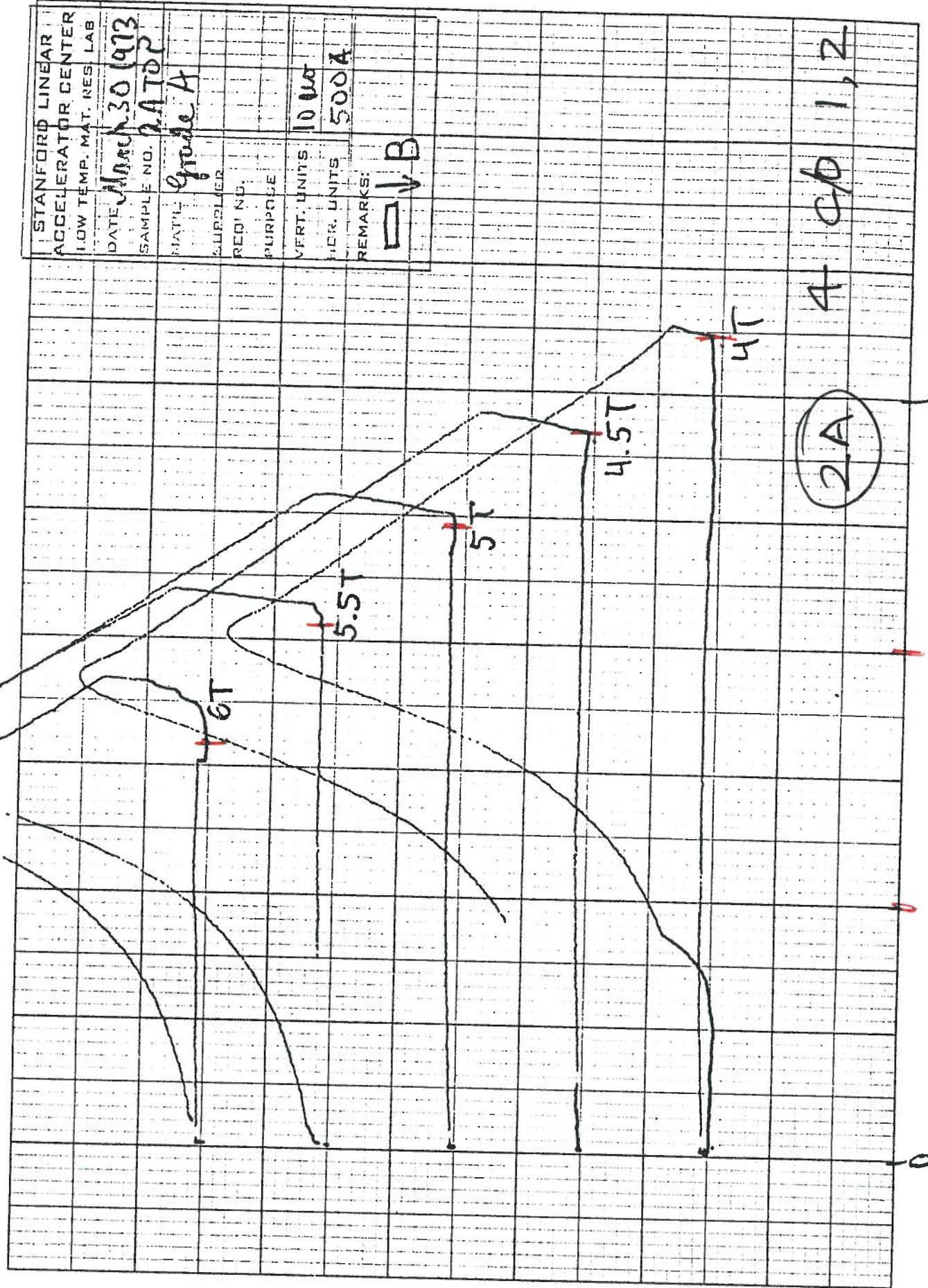
No. 10 FOLD

SIGNED

Grayline "SNAP-A-WAY" FORM 44-902 3 PARTS
WILSON JONES COMPANY © 1961 PRINTED IN U.S.A.

RETAIN WHITE COPY, RETURN PINK COPY. TURN OVER FOR USE WITH WINDOW ENVELOPE.

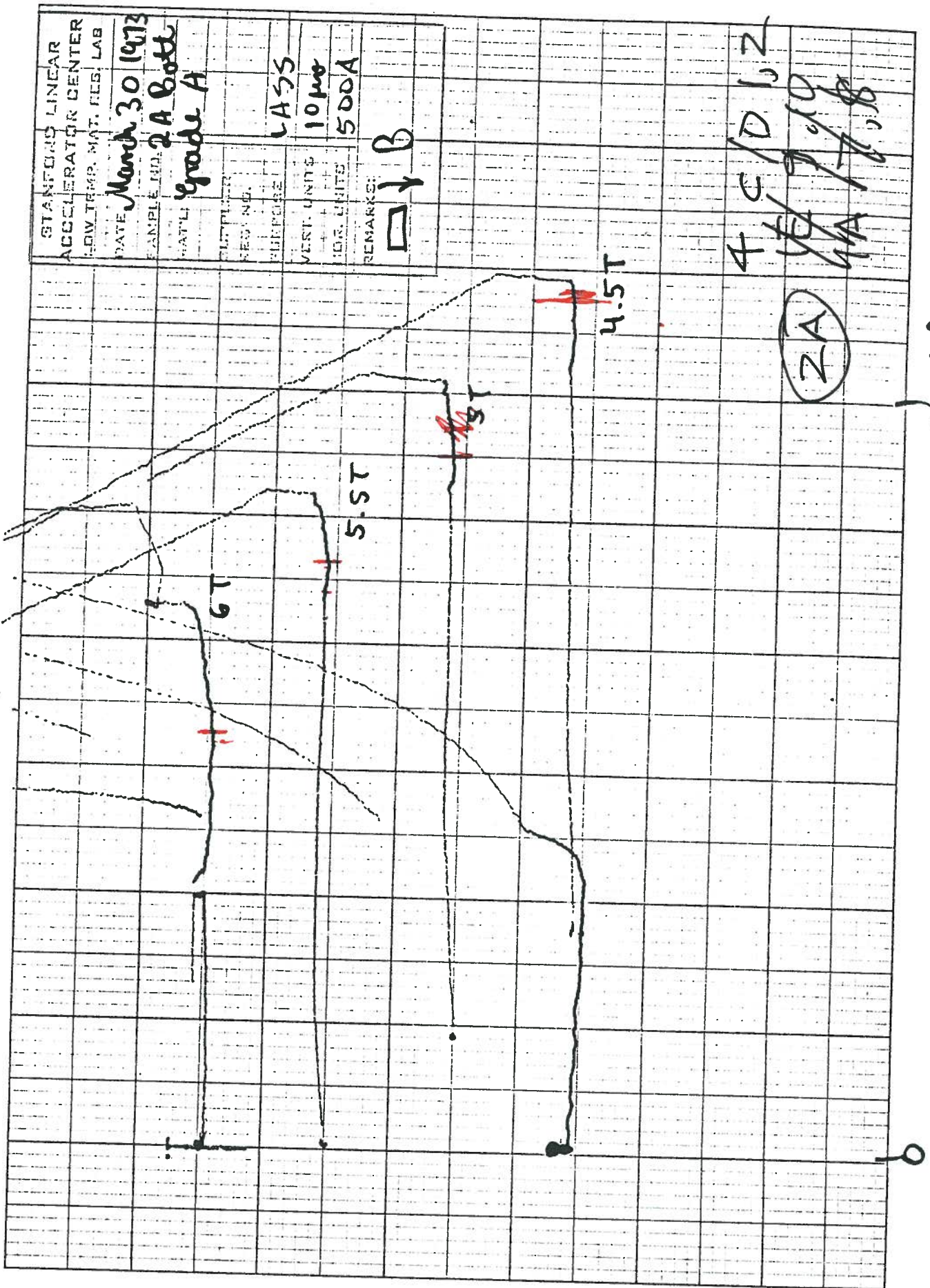





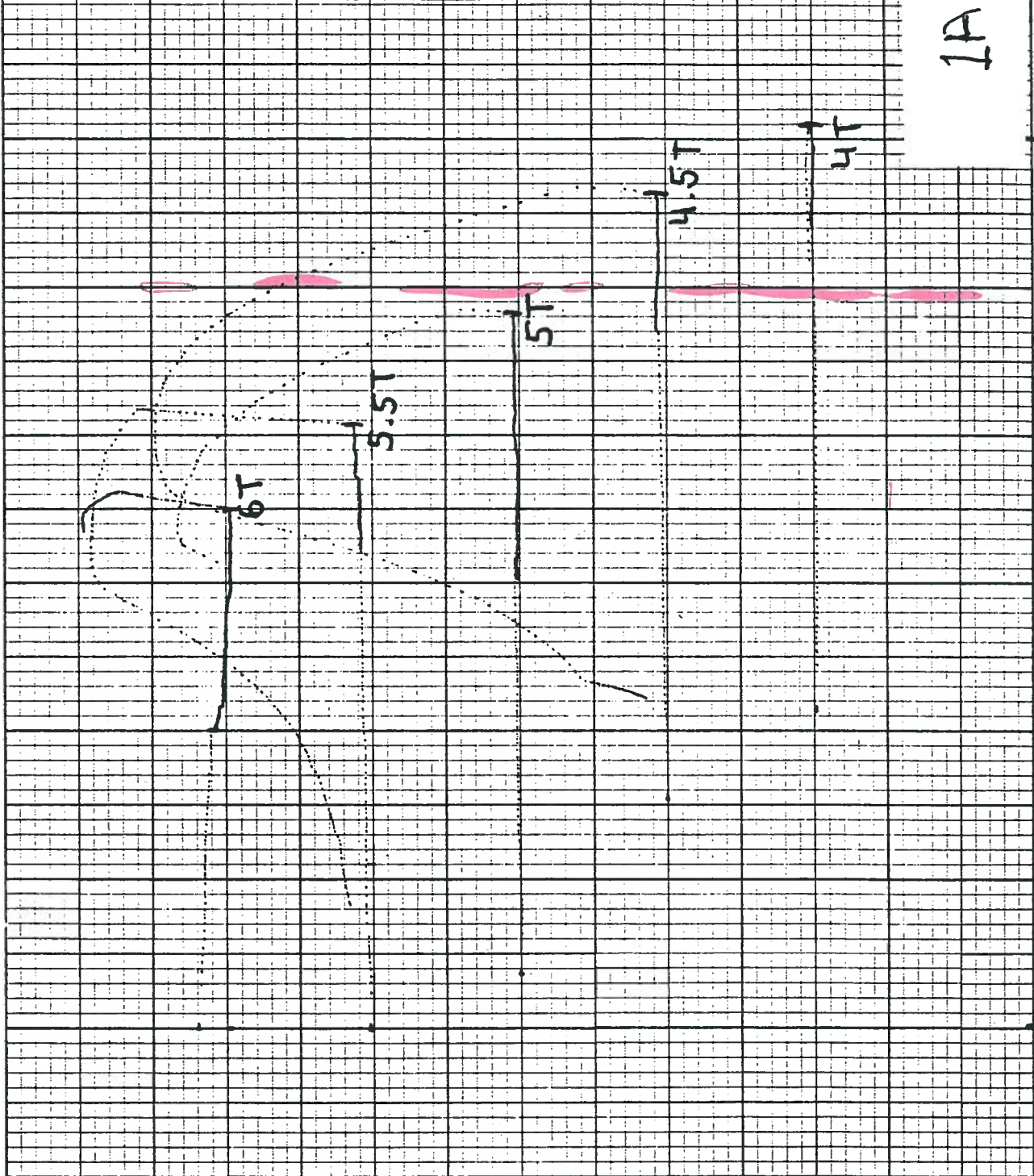
2A

A GP 1, 2

HEWLETT PACKARD/HOGUELEY DIVISION
 41726-1000
 FOR USE ON AUTOTRAX RECORDERS
 IN UNITS/DIVISION




STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE: <u>March 27 1973</u>
SAMPLE NO. <u>GRADE A</u>
MAT'L <u>RL 1 Bott.</u>
SUPPLIER
REQ. NO.
PURPOSE <u>LASS</u>
VERT. UNITS <u>10 μV</u>
HOR. UNITS <u>500A</u>
REMARKS: 

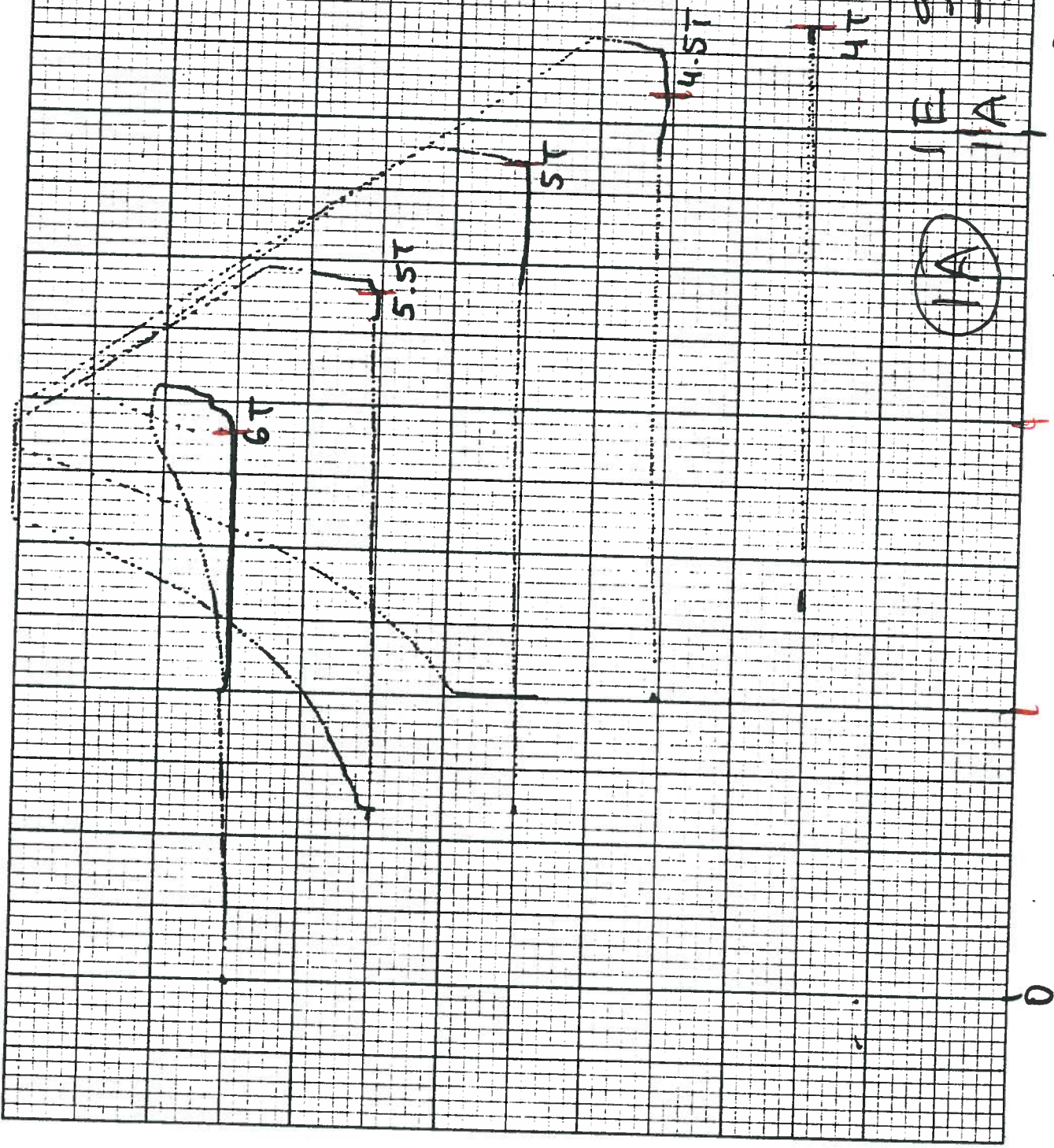



(A) (44)

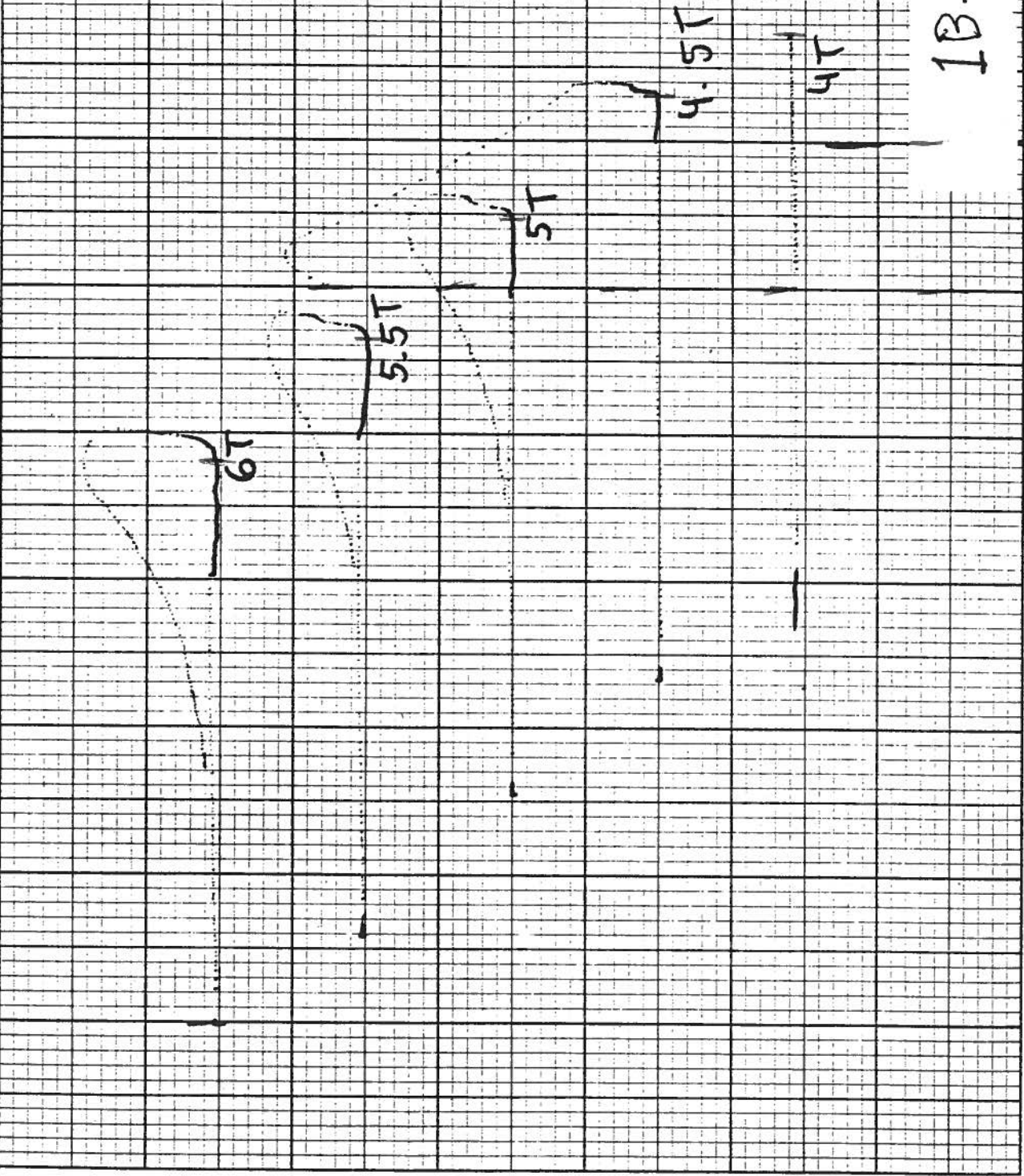
1A7.8

3000A

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: March 8 1973
SAMPLE NO: Reel 1 TOP
MAT'L: Graphite A
SUPPLIER
RECT NO.
PURPOSE: LASS
VERT. UNITS: 10 μ v
HOR. UNITS: 500A
REMARKS: 



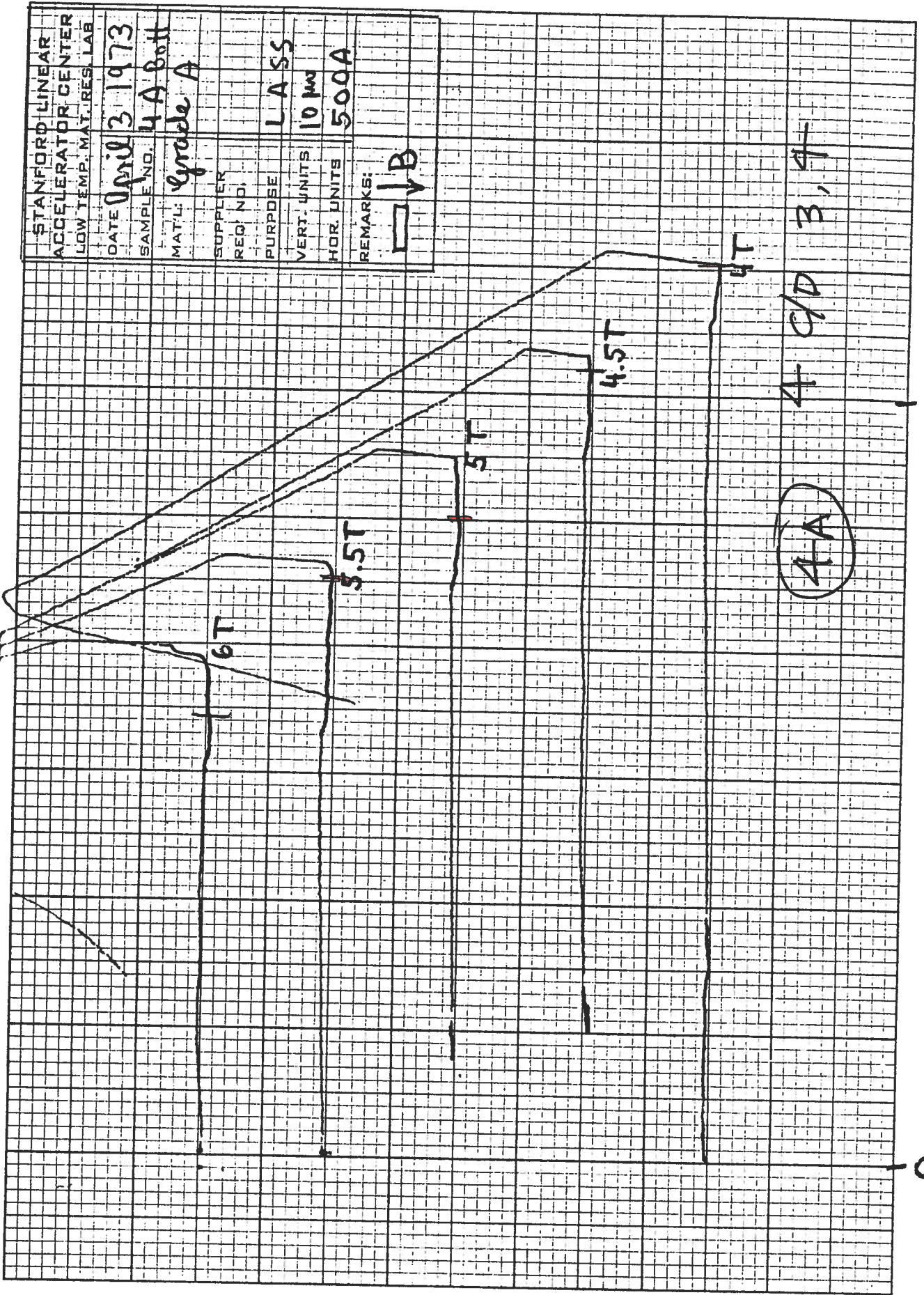
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE <i>March 26 1973</i>
SAMPLE NO. <i>Red 3 Bot</i>
MAT'L: <i>Grade A</i>
SUPPLIER
REC' NO.
BURDOSE <i>LASS</i>
VERT. UNITS <i>10 MV</i>
HORIZ. UNITS <i>500 V</i>
REMARKS: 



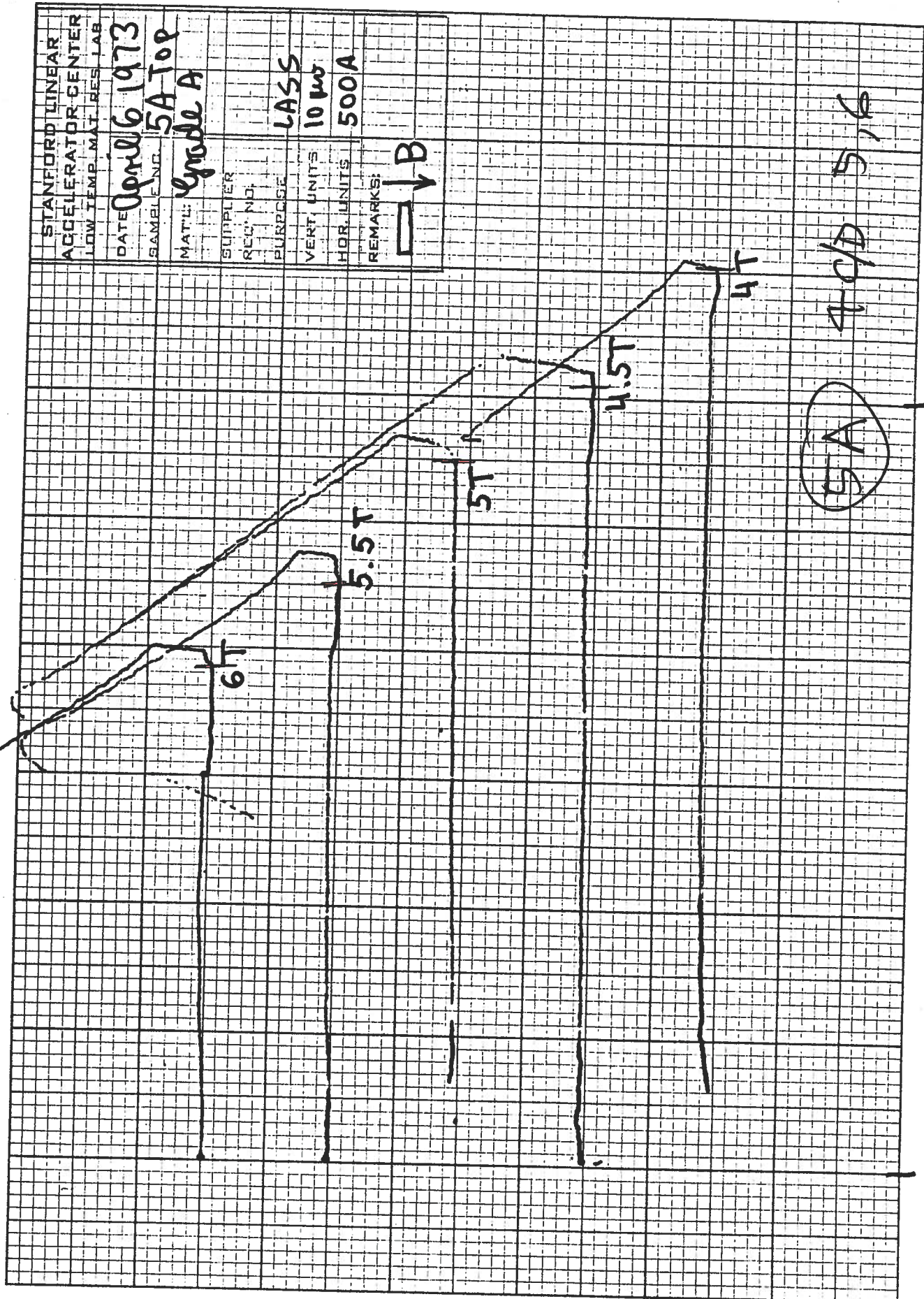
IB-56
45

3000A

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1008
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION



HEWLETT-PACKARD/MOSELEY DIVISION
9270-1008
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION

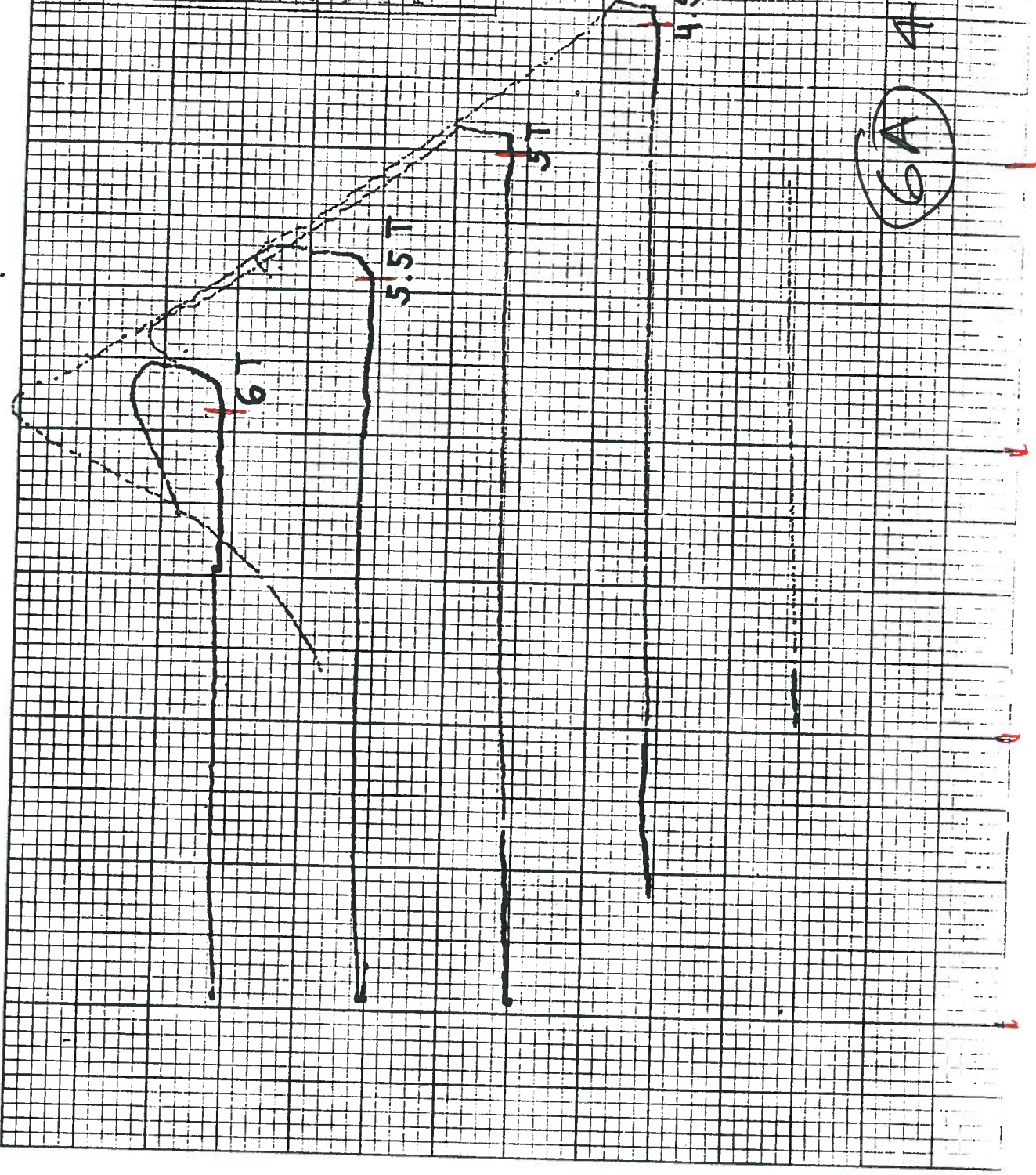


STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE: April 6 1973
SAMPLE NO.: 5A Top
MAT'L: Grade A
SAMPLER:
REC. NO.:
PURPOSE: LASS
VERT. UNITS: 10 μv
HOR. UNITS: 500A
REMARKS:
□ ↓ B

5A
79/D
5,6

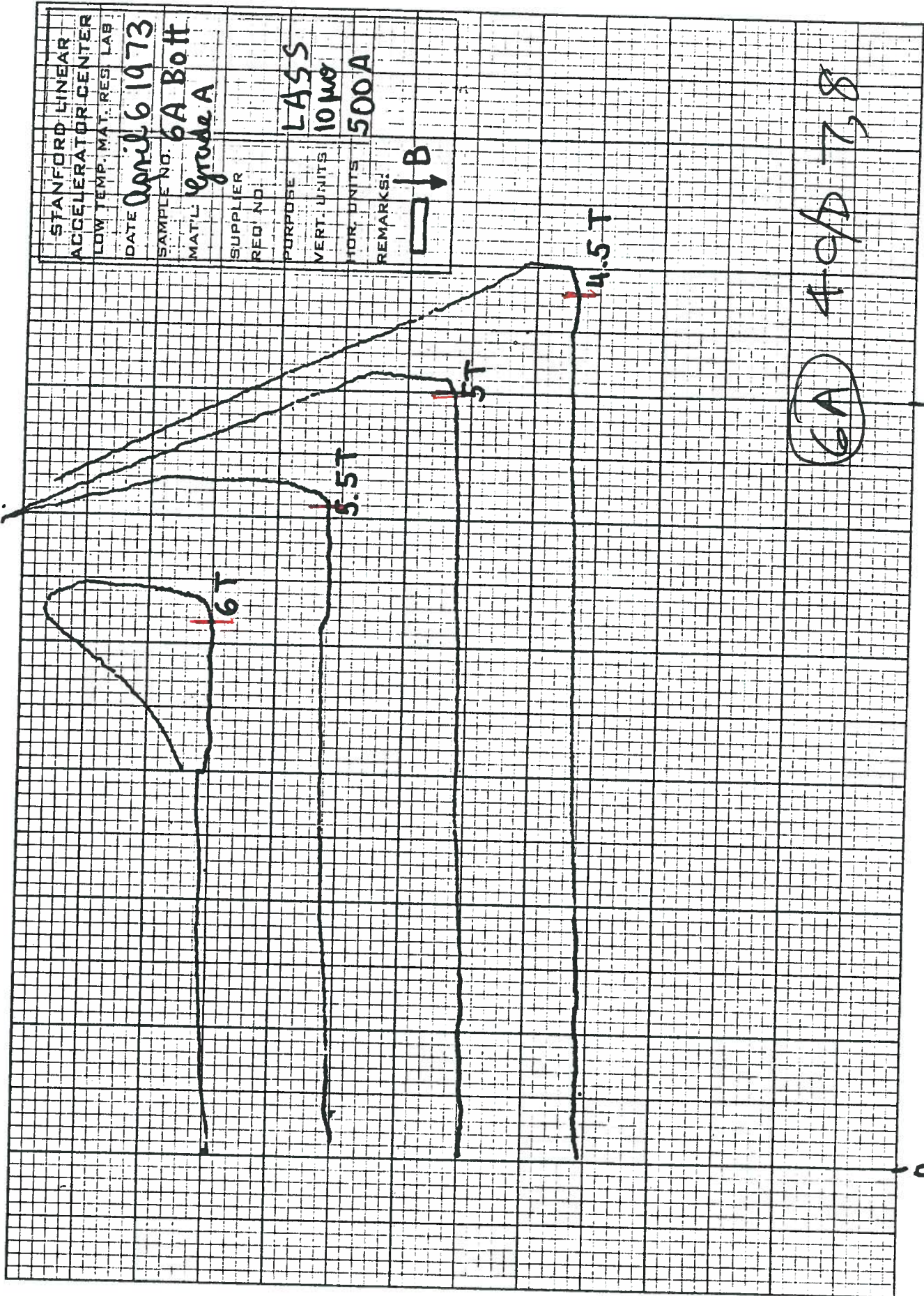
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE April 6 1973
SAMPLE 6A TOP
MATL Grade A
SUPPLIER
REP. NO.
SURFACE LASS
VENT. UNITS 10 MW
FOR UNITS 500A
REMARKS: $\Rightarrow \downarrow B$



6A 7 90 7, 8

HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION



HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: April 9 1973
SAMPLE NO. 7A TOP
MAT'L: Grade A
SUPPLIER REQ. NO.
PURPOSE: LASS
VERT. UNITS: 10 Wg
HDR. UNITS: 500A
REMARKS: □ ↓ B

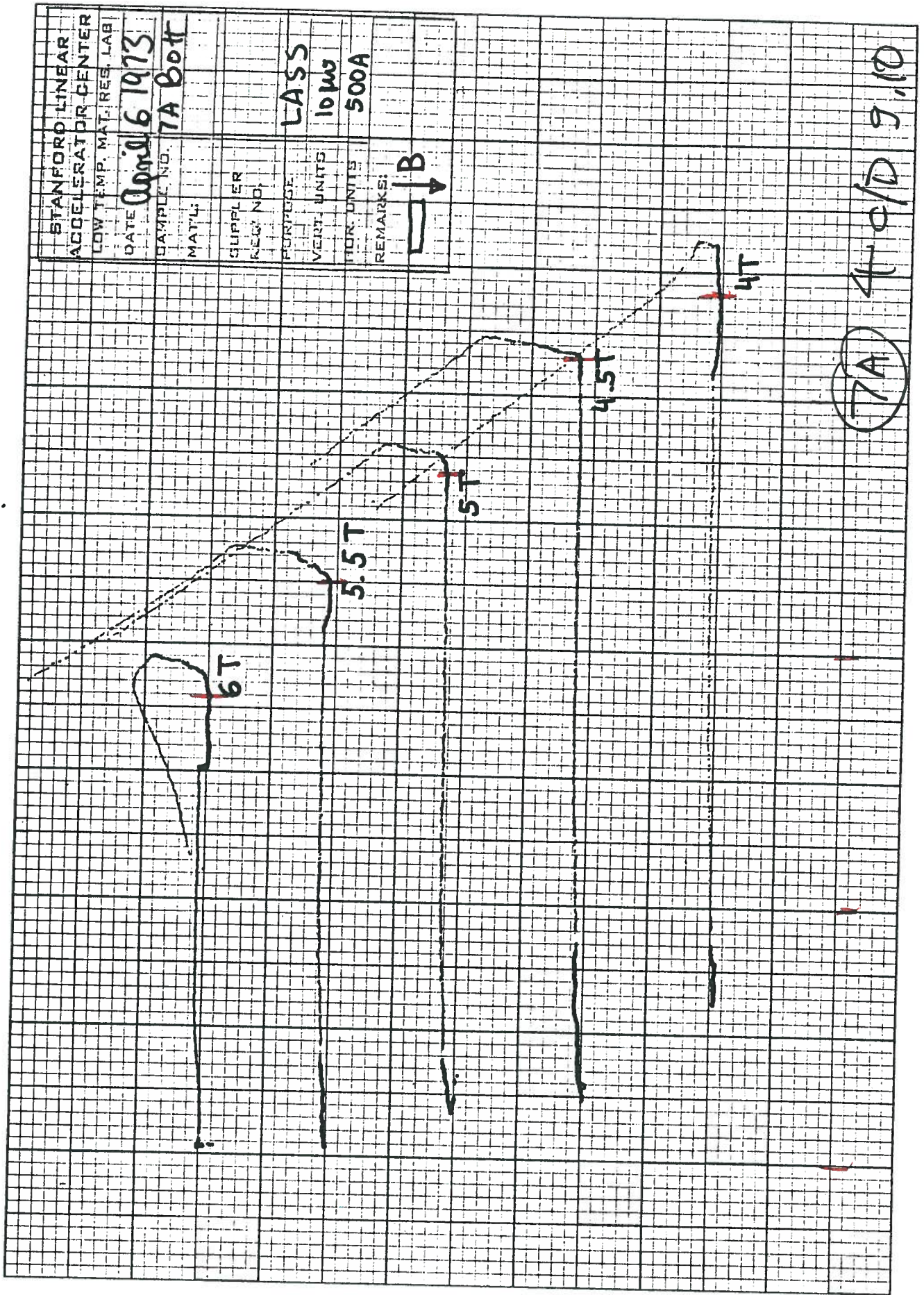


7A

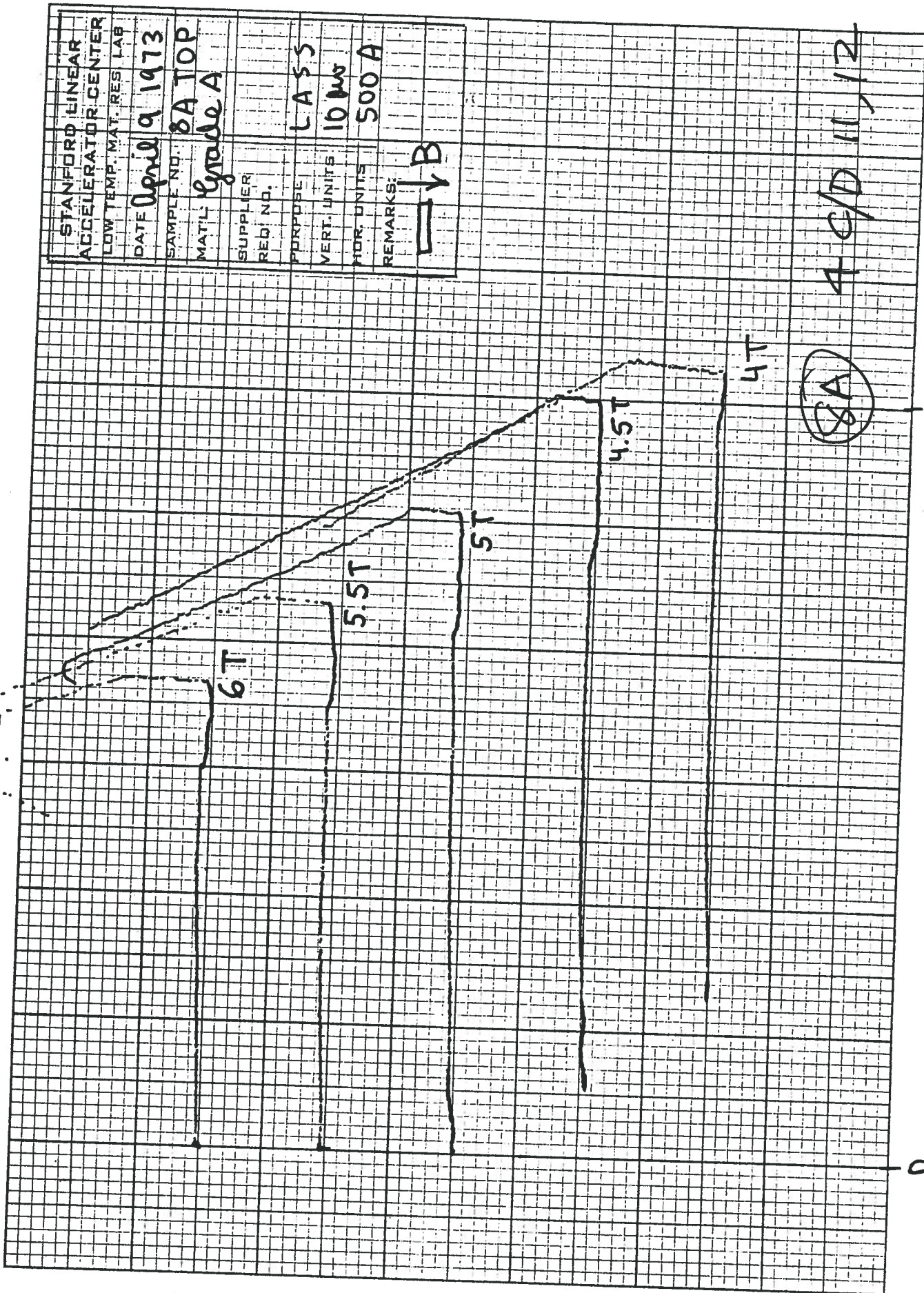
4 9/D 7,10

C

HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAF RECORDERS
10 UNITS/DIVISION



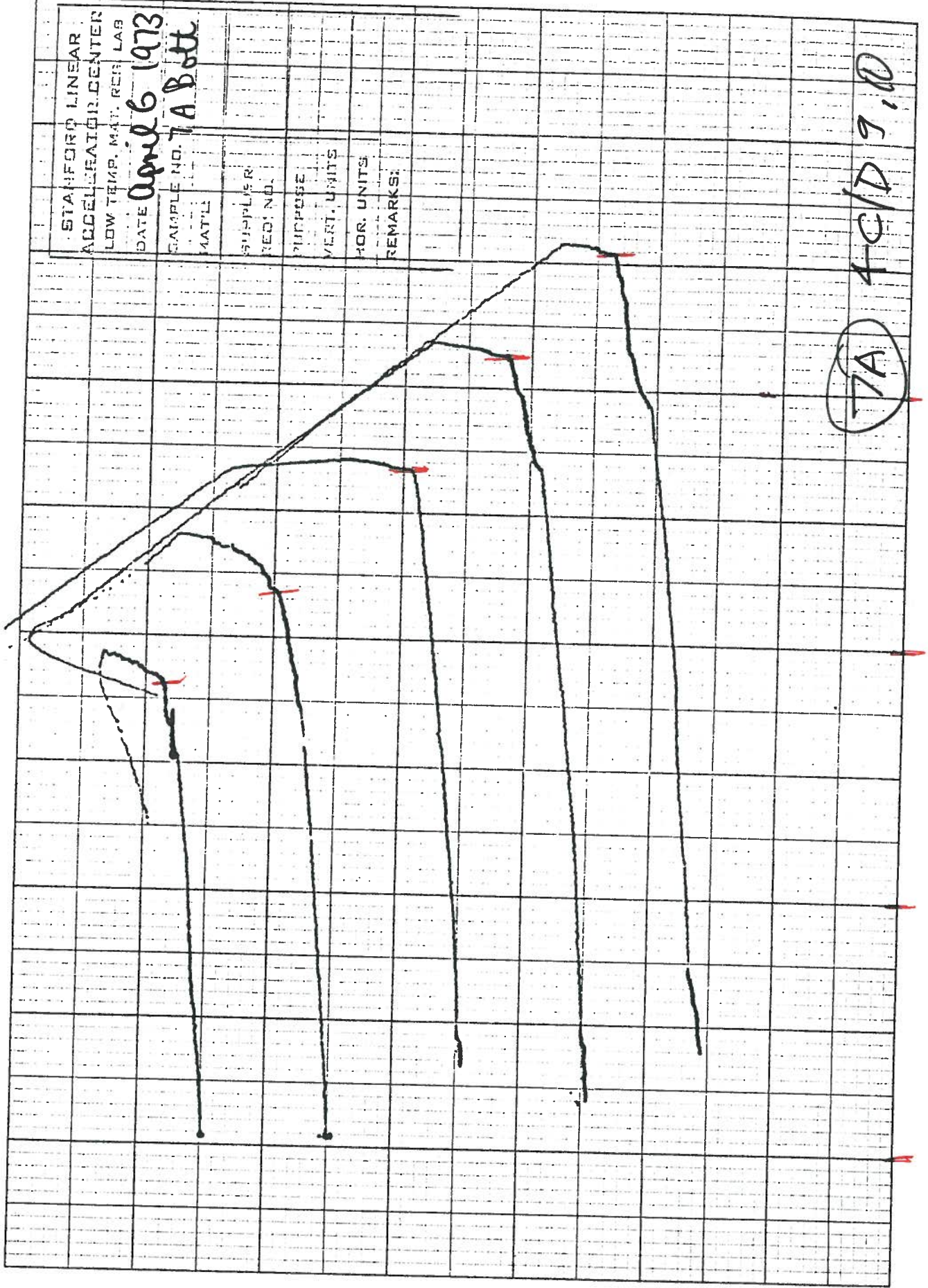
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION



8A

4 C/D 11/12

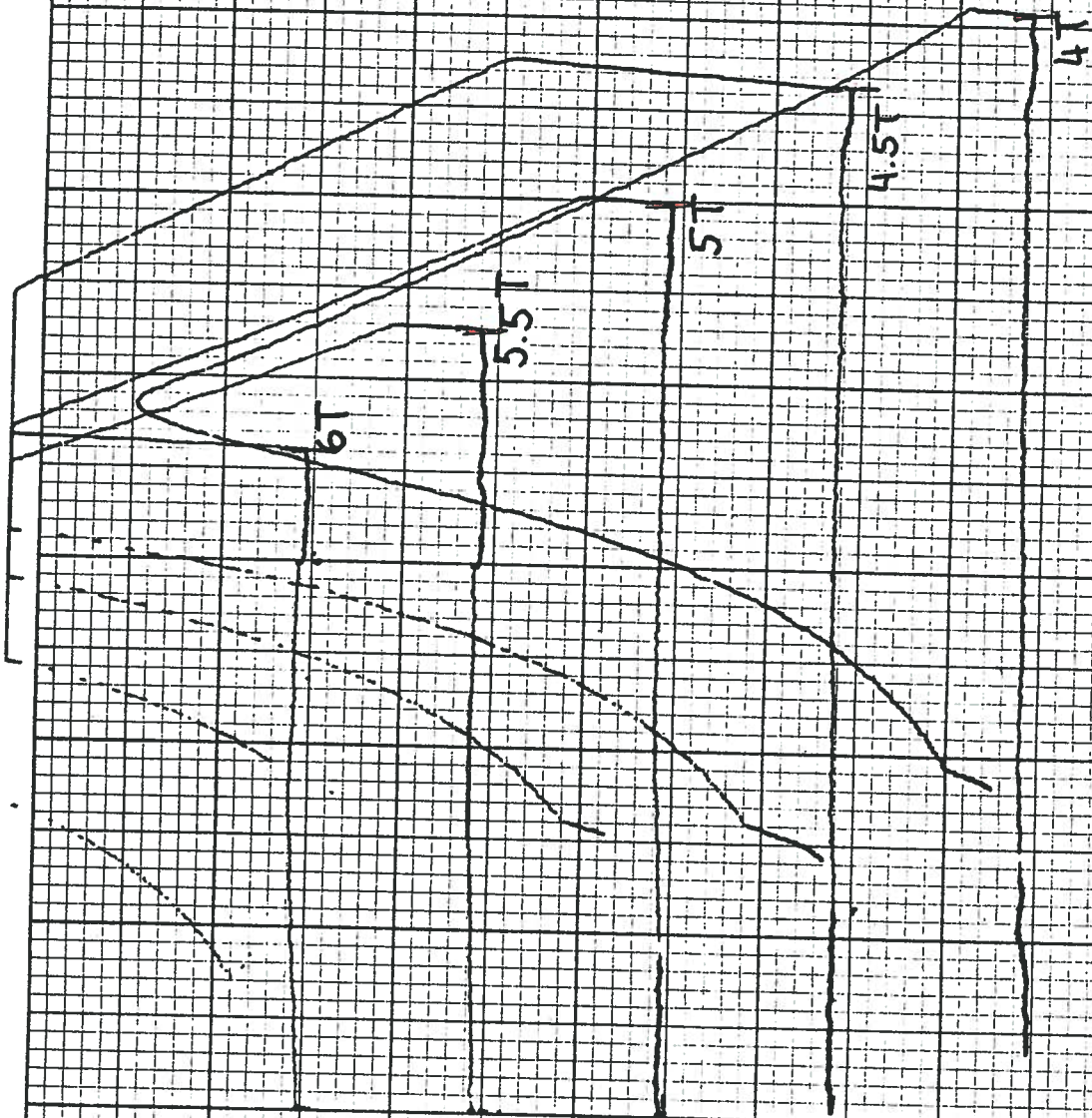
HEWLETT PACKARD MORSELEY DIVISION
2770 15th
F410 USE ON AUTOGRAPH RECORDING
TO UNITS/DIVISION



7A
4-C/D 9.0

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	
DATE:	April 4 1973
SAMPLE NO.:	8A B off
MAT'L:	Grade A
SUPPLIER:	
REQ. NO.:	
PURPOSE:	LASS
VERT. UNITS:	10 mV
HOR. UNITS:	500A
REMARKS:	→ B

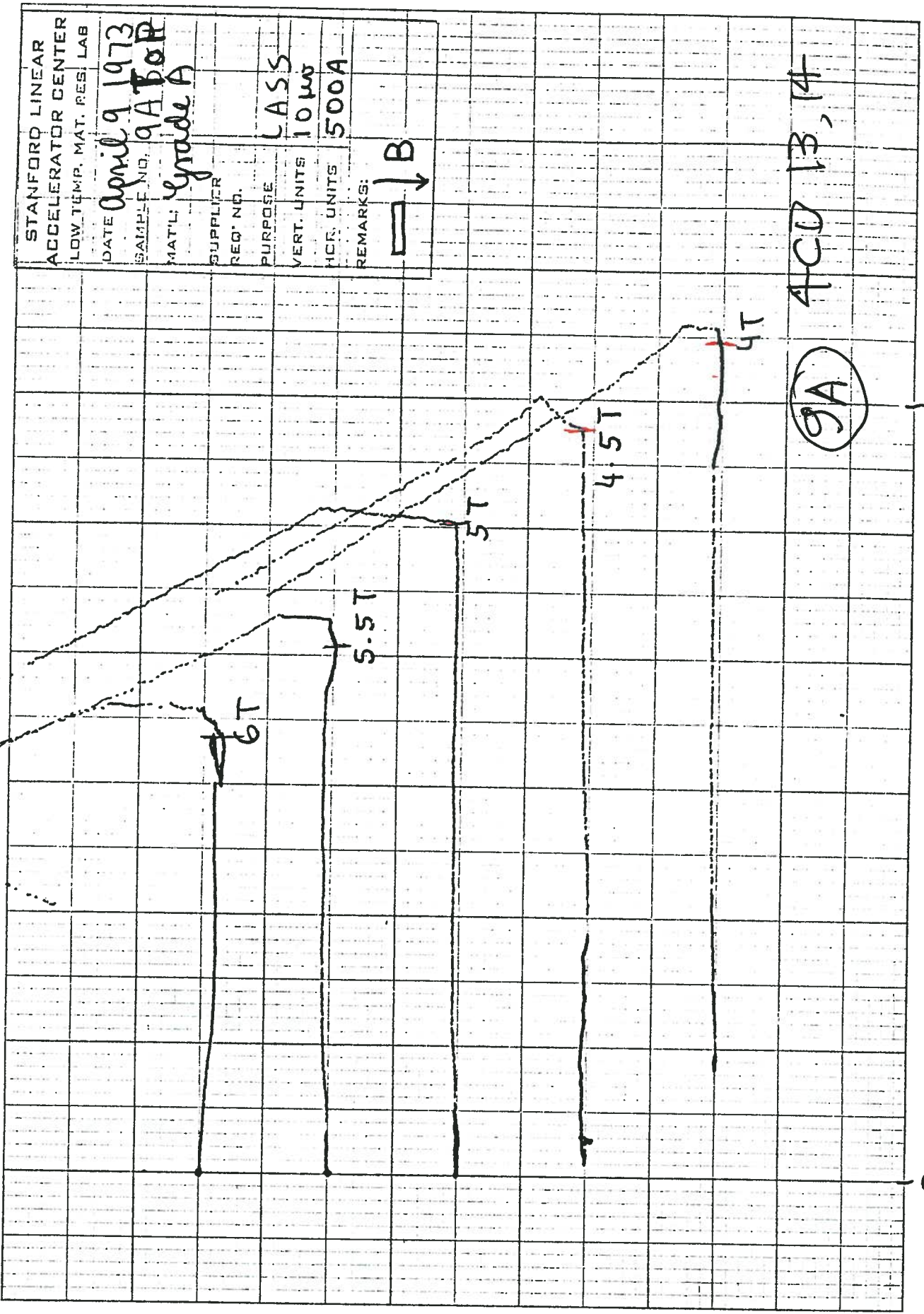


8A

4 e/D 11, 12

mail

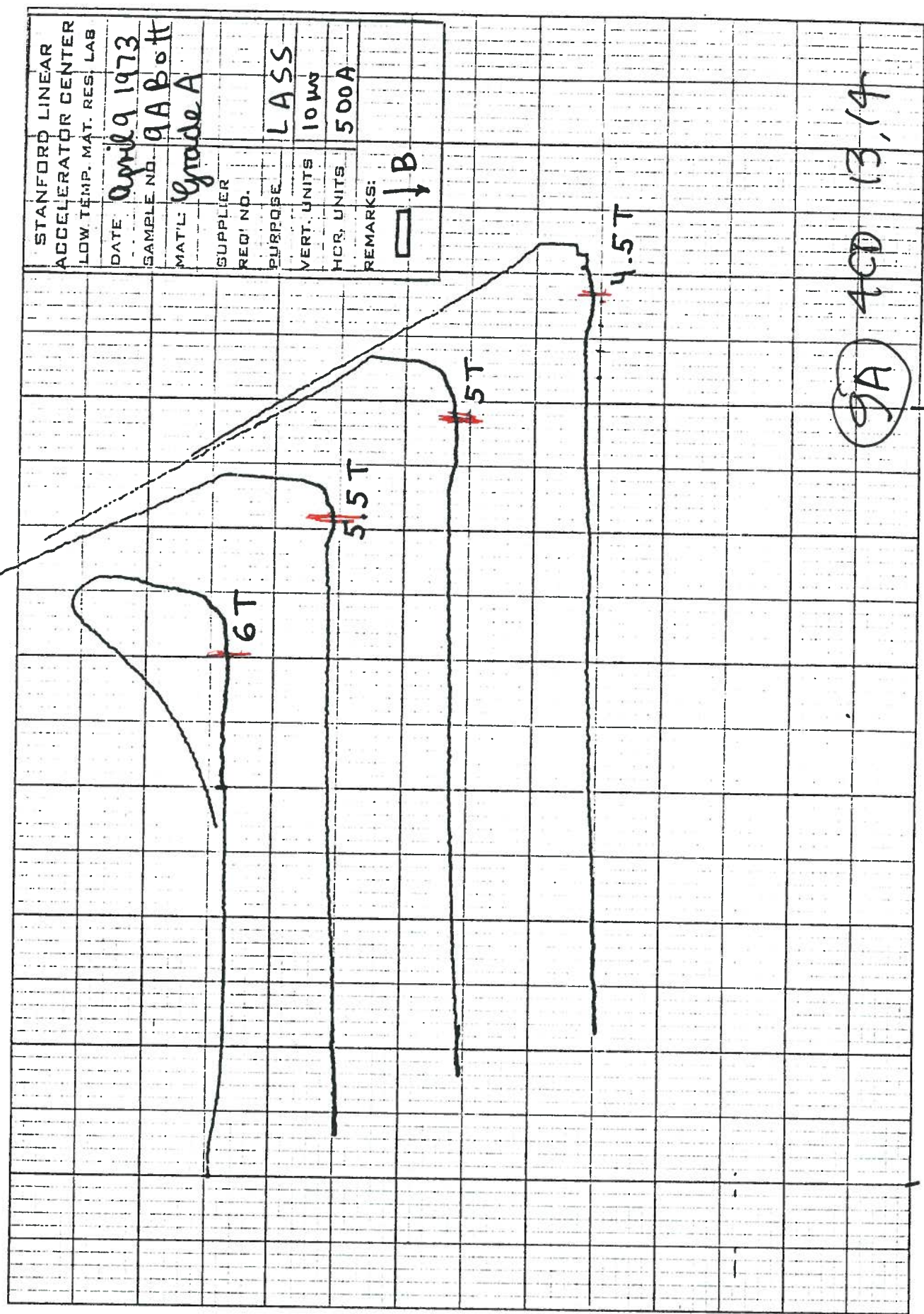
HEWLETT-PACKARD MODEL 54 DIVISION
9470 1004
FOR USE ON AUTOCRAF RECORDERS
BY INSTRUMENTATION



9A
ACD 13, 14

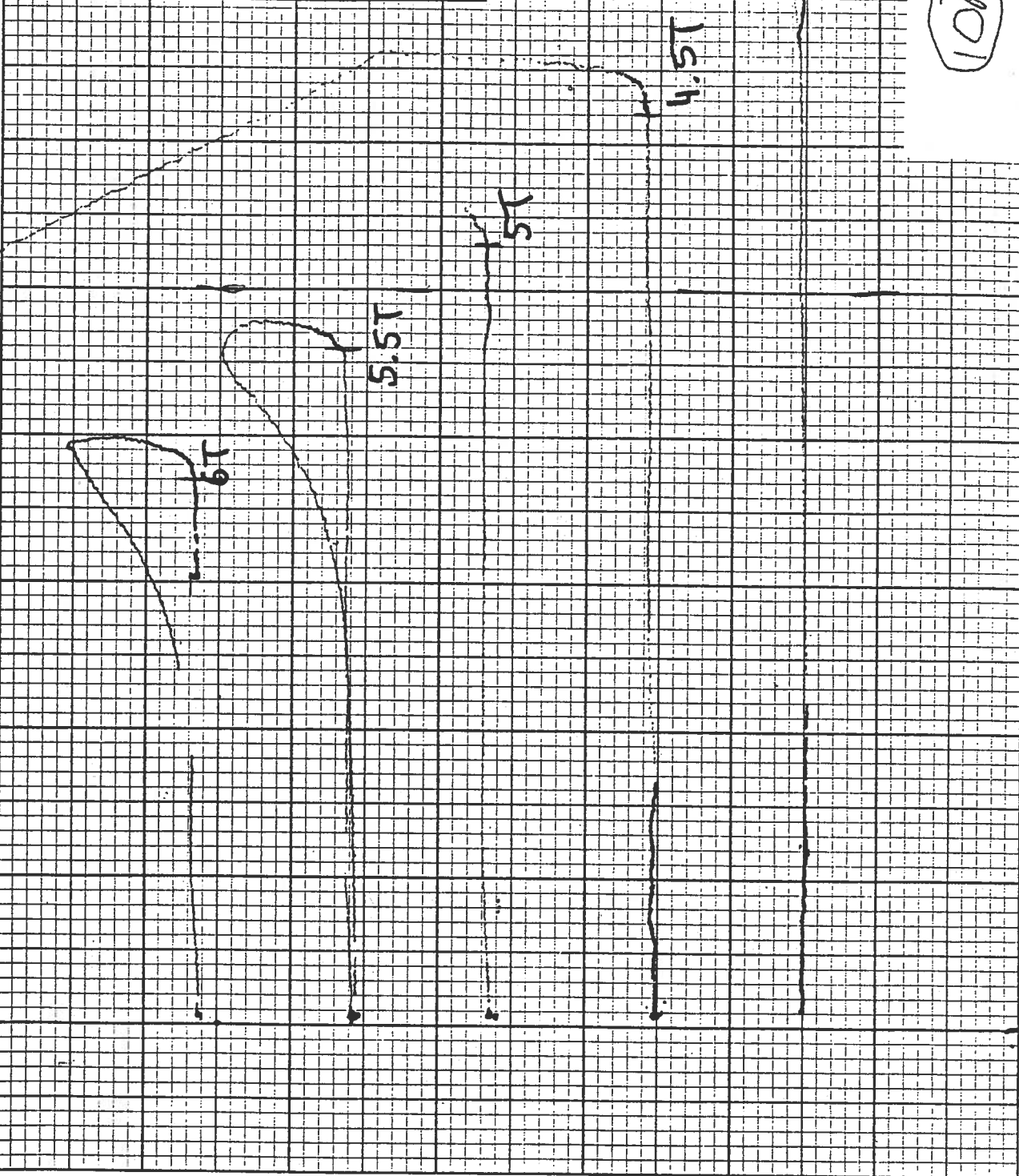
20000

HEWLETT-PACKARD/MICROLELY DIVISION
5,701000
FOR USE ON AUTOGRAF RECORDERS
TO UNIT DIVISION



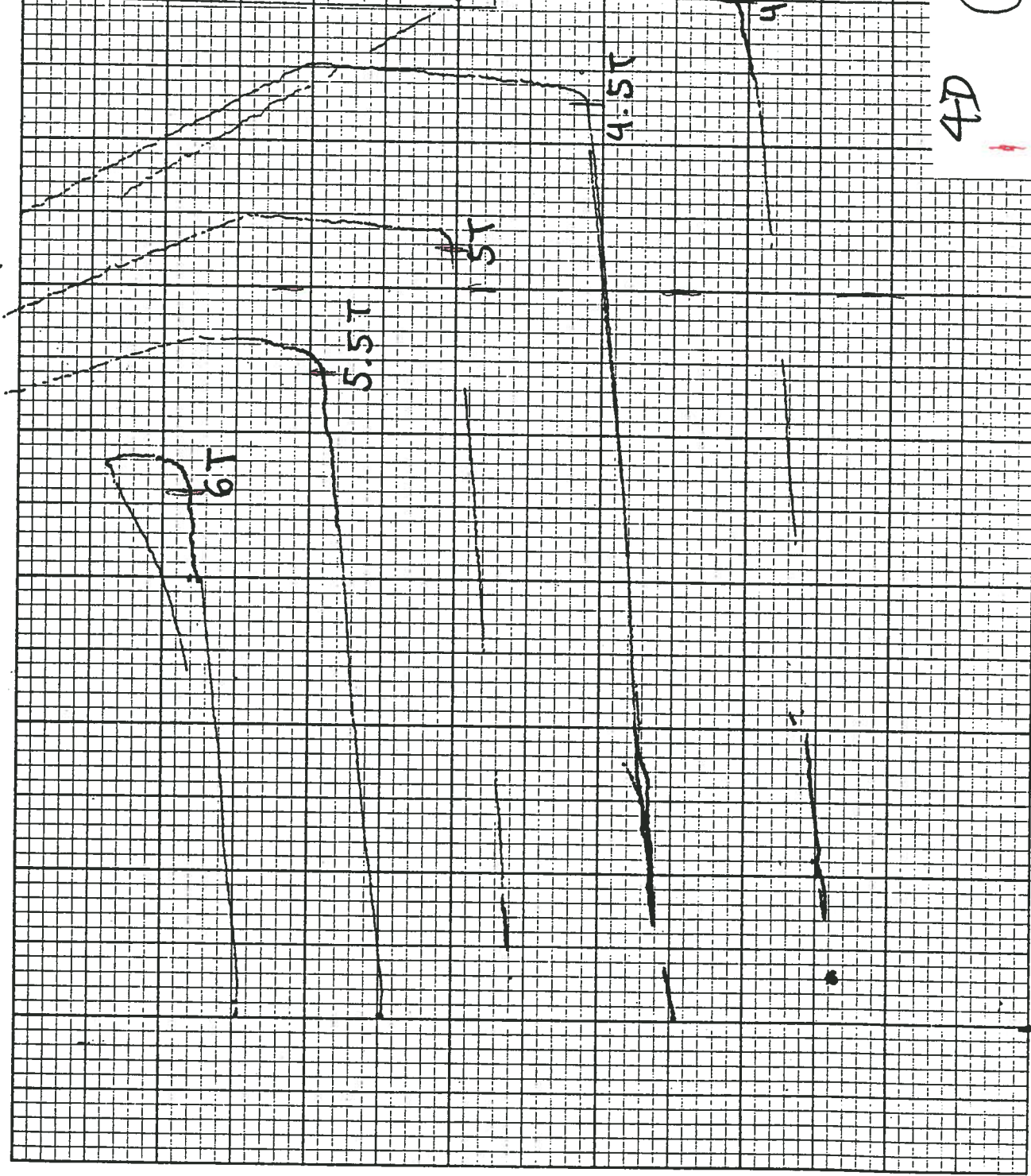
HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION

STANDARD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: APR 10 1973
SAMPLE NO.: 10A TOP
MAT'L: Grade A
SUPPLIER:
REQ. NO.:
PURPOSE: LASS
VERT. UNITS: 10ms
HOR. UNITS: 500A
REMARKS: B B



4-D
10A TOP 159/16

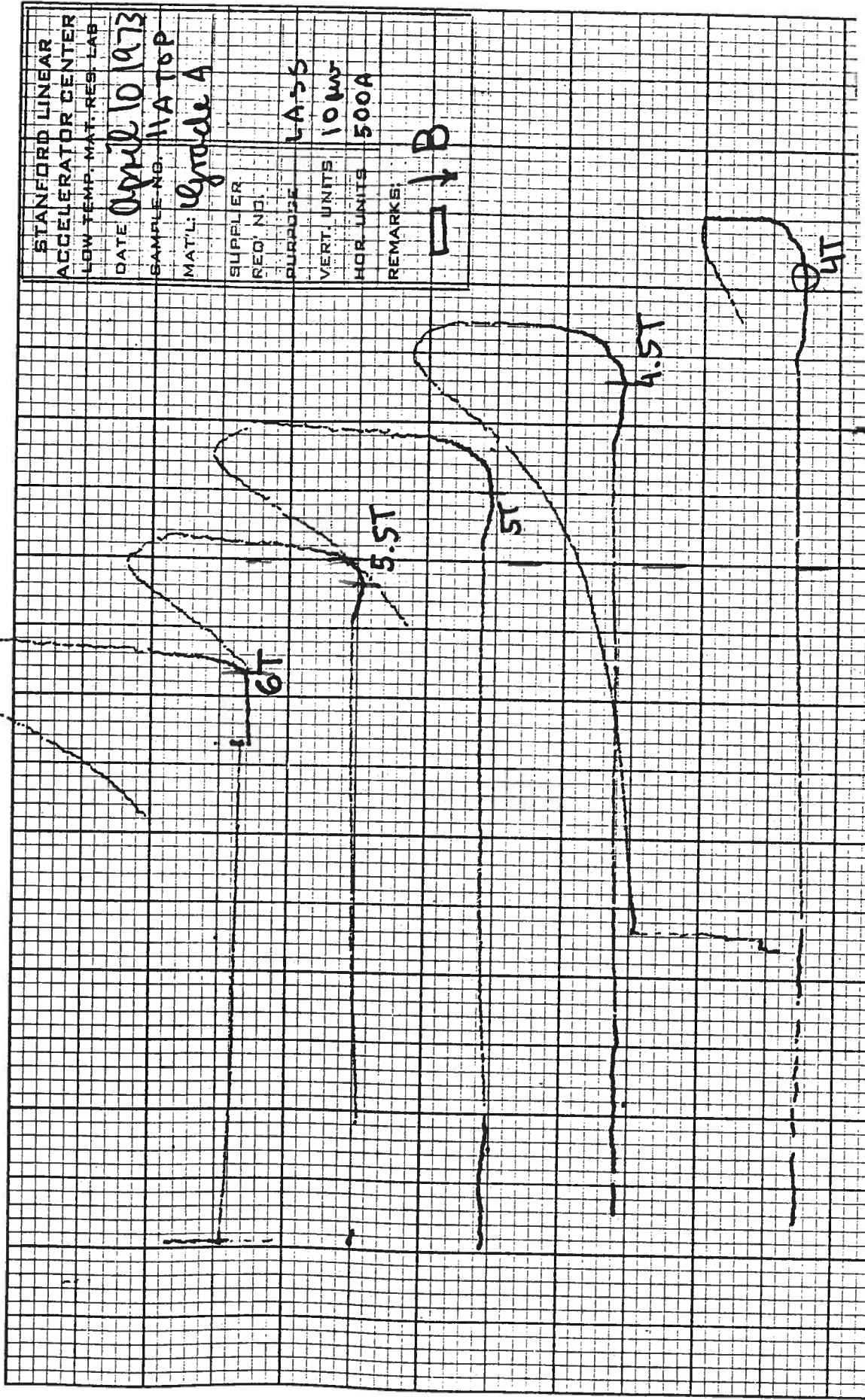
STANFORD LINEAR
ACCELERATOR CENTER
LEV. TEMP. MAT. RES. LAB.
DATE: April 10 1973
SAMPLE NO. 10A BOT
MATL. grade A
SUPPLIER
NET NO.
BURRDL
VERT. LIMITS 10 W
HOR. LIMITS 500A
REMARKS: DVB



4D
 10A BOT 15 = 16

3000A

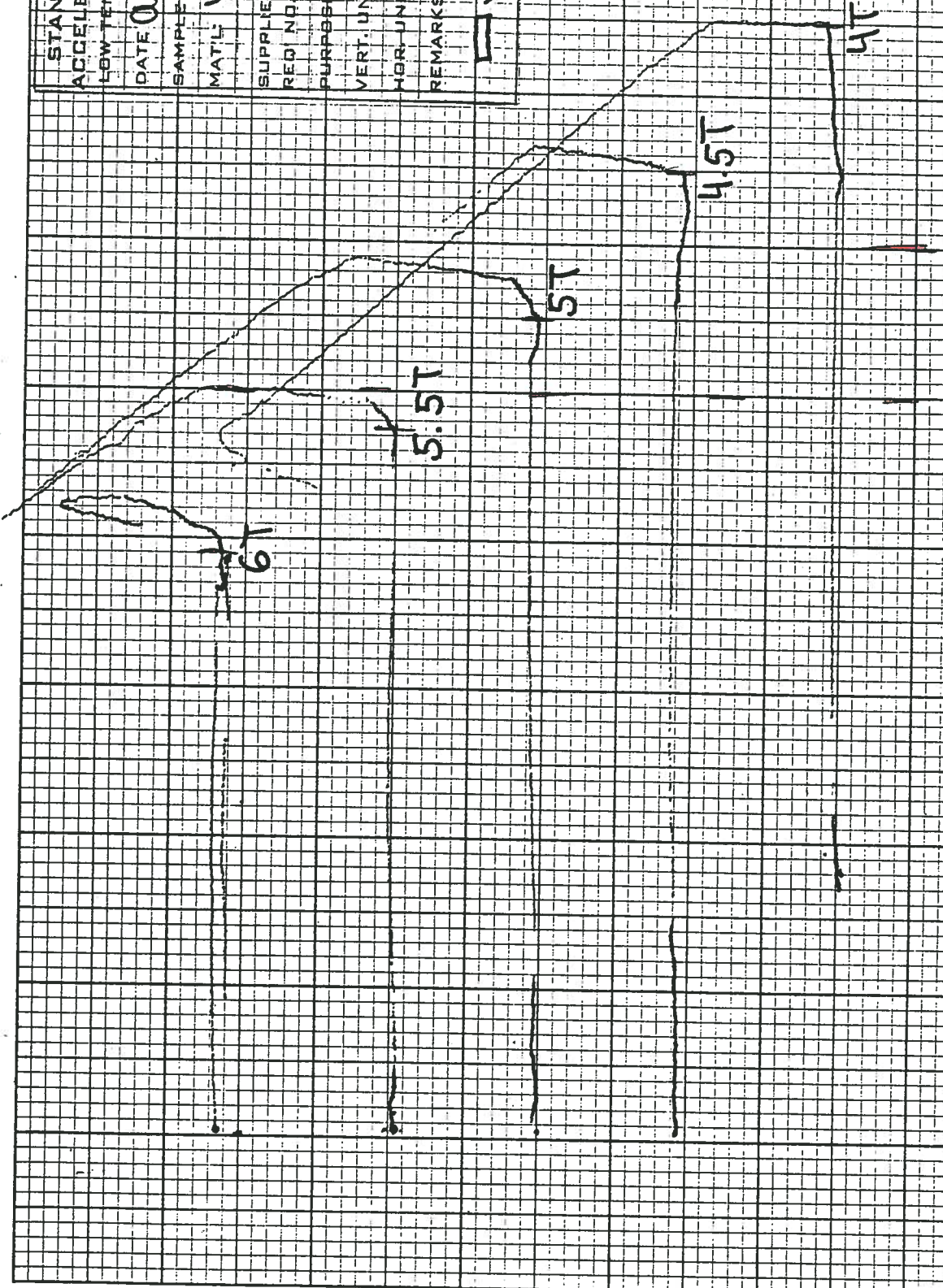
HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION



AD 11A TOP 17 1/8

HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION

STANFORD LINEAR
ACCELERATOR CENTER
LOW TEMP. MAT. RES. LAB.
DATE April 10 1973
SAMPLE NO. 11A BOT
MATL. Grade A
SUPPLIER
RED. NO.
PURPOSE LASS
VERT. UNITS 10 Wg
HOR. UNITS 500A
REMARKS: $\square \downarrow B$



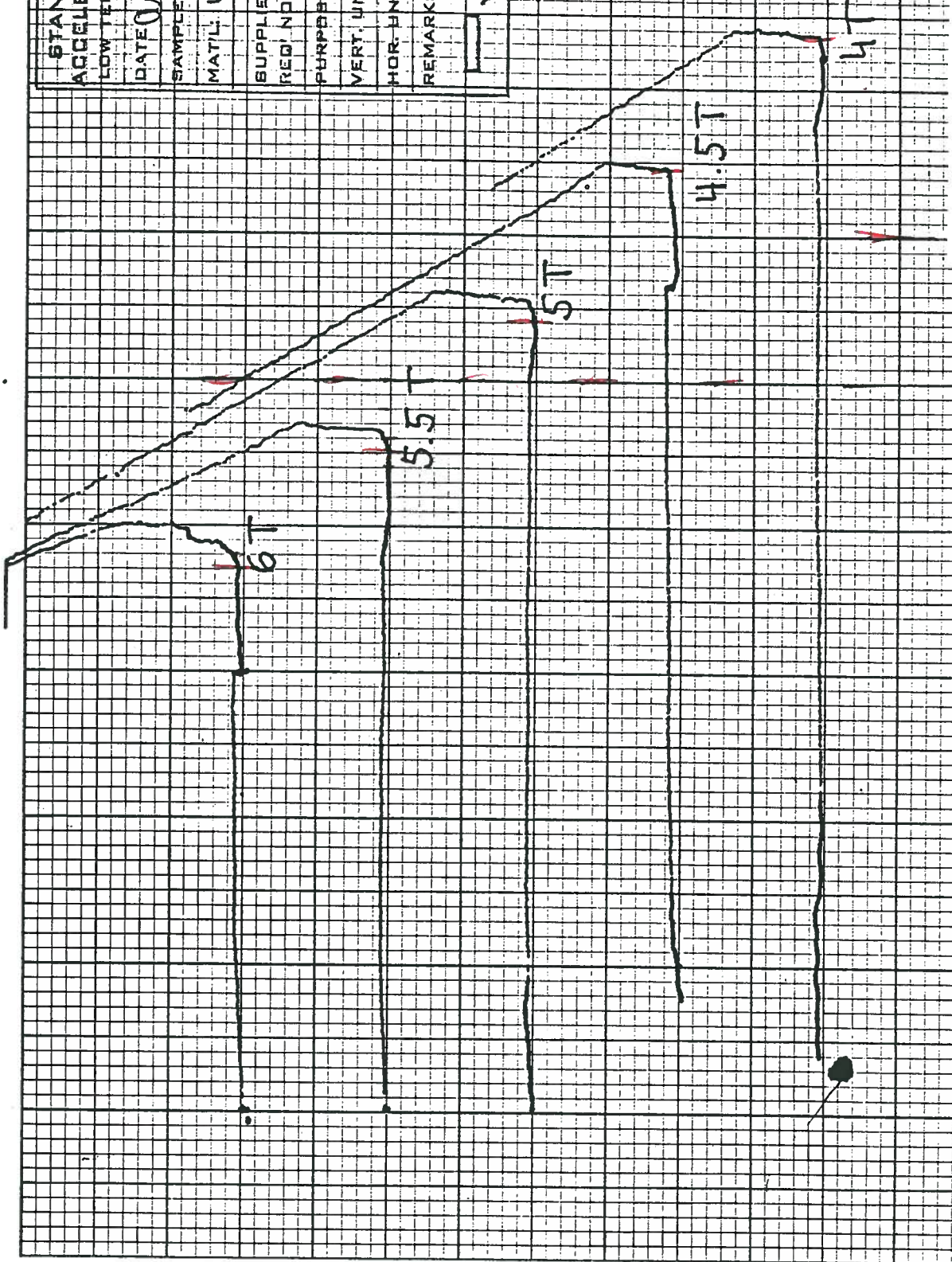
4D (11A) BOT 17d18

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE <u>April 11 1973</u>
SAMPLE NO. <u>12A TOP</u>
MAT'L <u>Grade A</u>
SUPPLIER REF. NO.
PURPOSE <u>LASS</u>
VERT. UNITS <u>10 MO</u>
HOR. UNITS <u>500 A</u>
REMARKS: <u>→ ↓ B</u>



UNITS

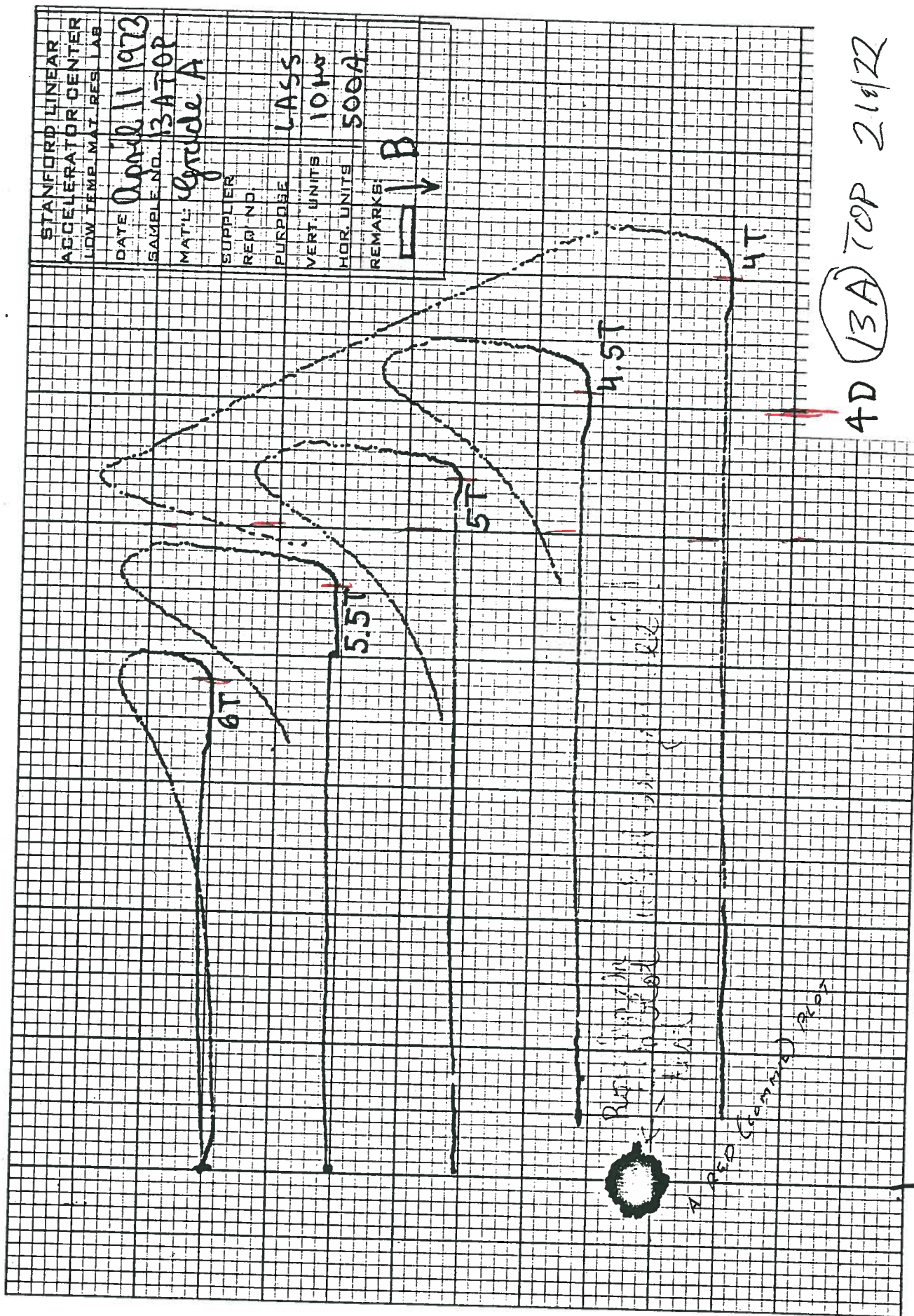
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	
DATE	April 11 1973
SAMPLE NO.	12A BOT
MATL.	Gycolac A
SUPPLIER	
REQ. NO.	
PURPOSE	CLASS
VERT. UNITS	10 μ m
HOR. UNITS	500A
REMARKS:	H B



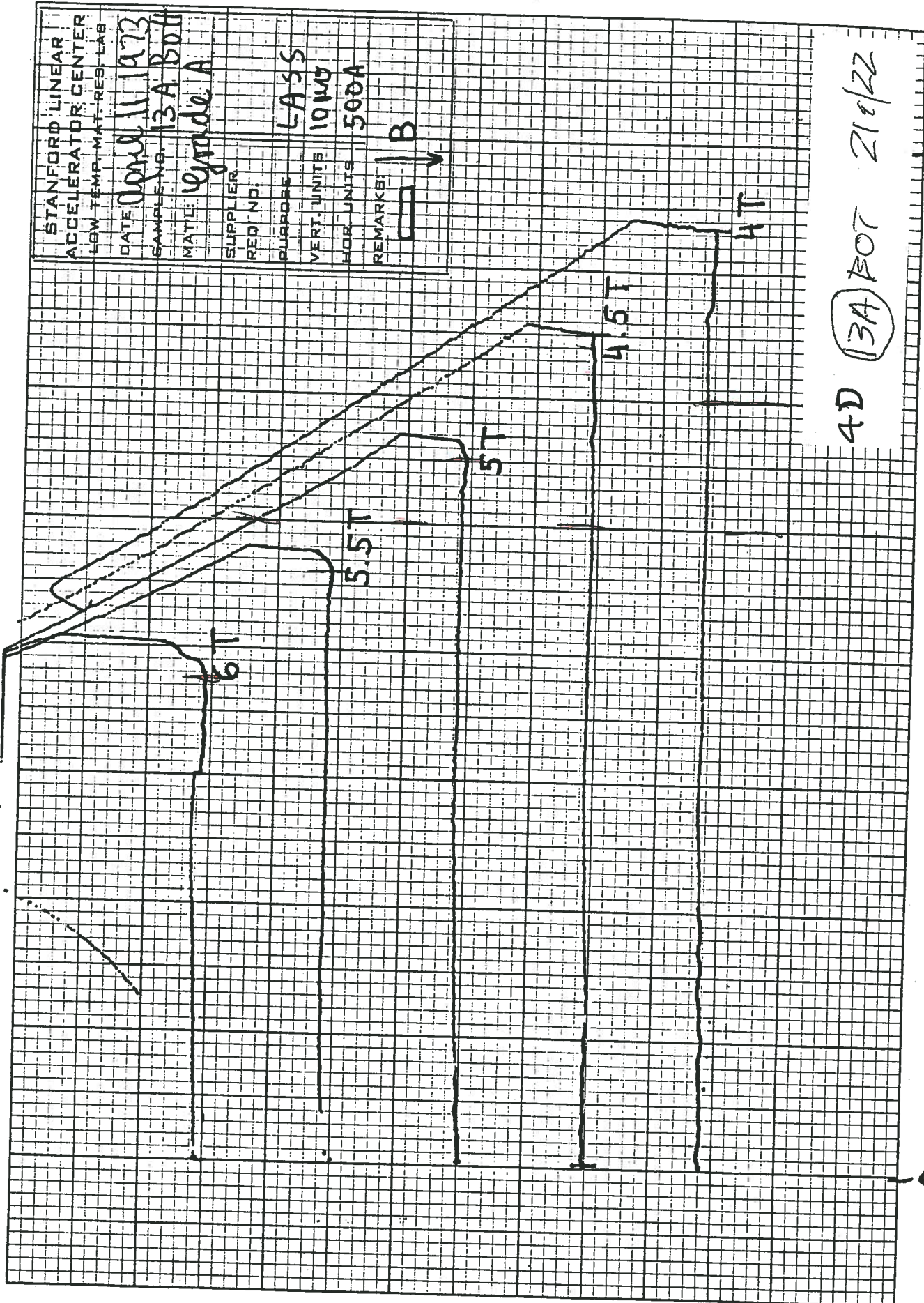
4D (12A) BOT 19/20


3000A

0



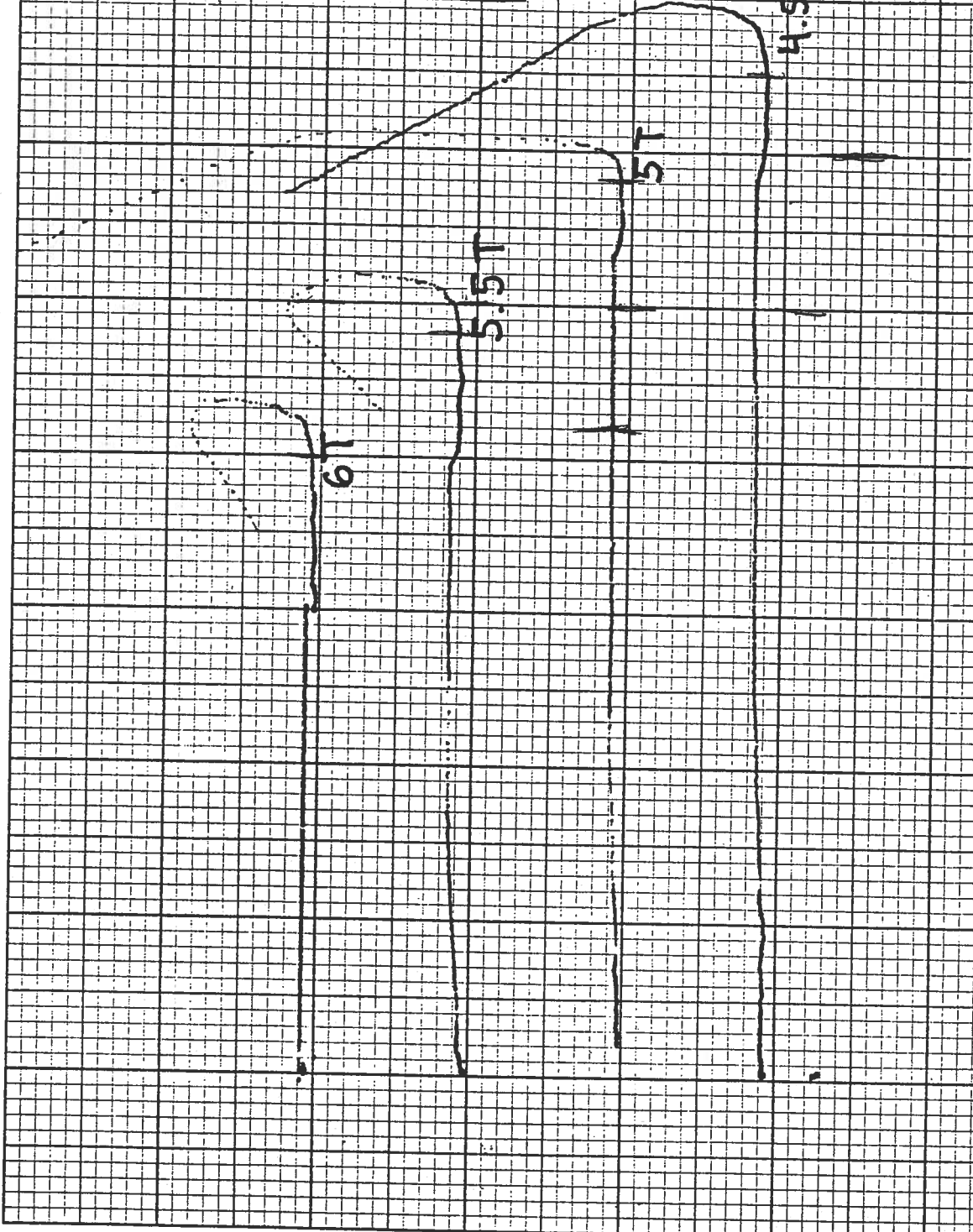
4D (13A) TOP 21/22



STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: <u>Nov 11 1973</u>
SAMPLE NO. <u>13A BOT</u>
MATL <u>Grade A</u>
SUPPLIER
REP. NO.
PURPOSE <u>LASS</u>
VERT. UNITS <u>10MV</u>
HOR. UNITS <u>500A</u>
REMARKS: 

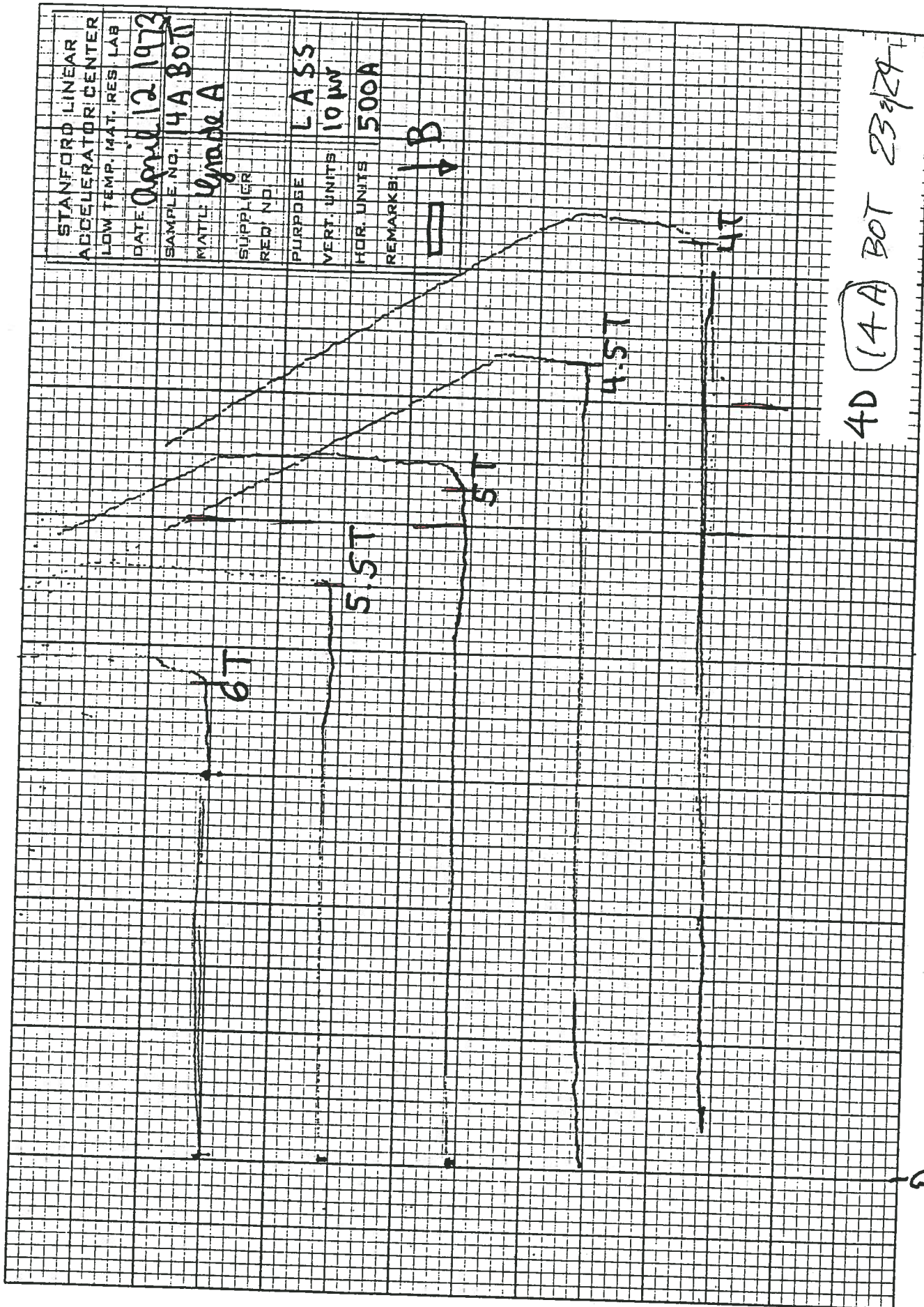
4D (3A) BOT 21/22

STANFORD LINEAR ACCELERATOR CENTER LEW TEMP. MAT. RES. LAB.	
DATE	April 12 1973
SAMPLE NO.	14ATOP
MAT'L.	Grade A
SUPPLIER REQ. NO.	
PURPOSE	LASS
VERT. UNITS	10 MW
HOR. UNITS	500A
REMARKS:	□ ↓ B



4D (14A) TOP 23, 24

2000 3000 4KA

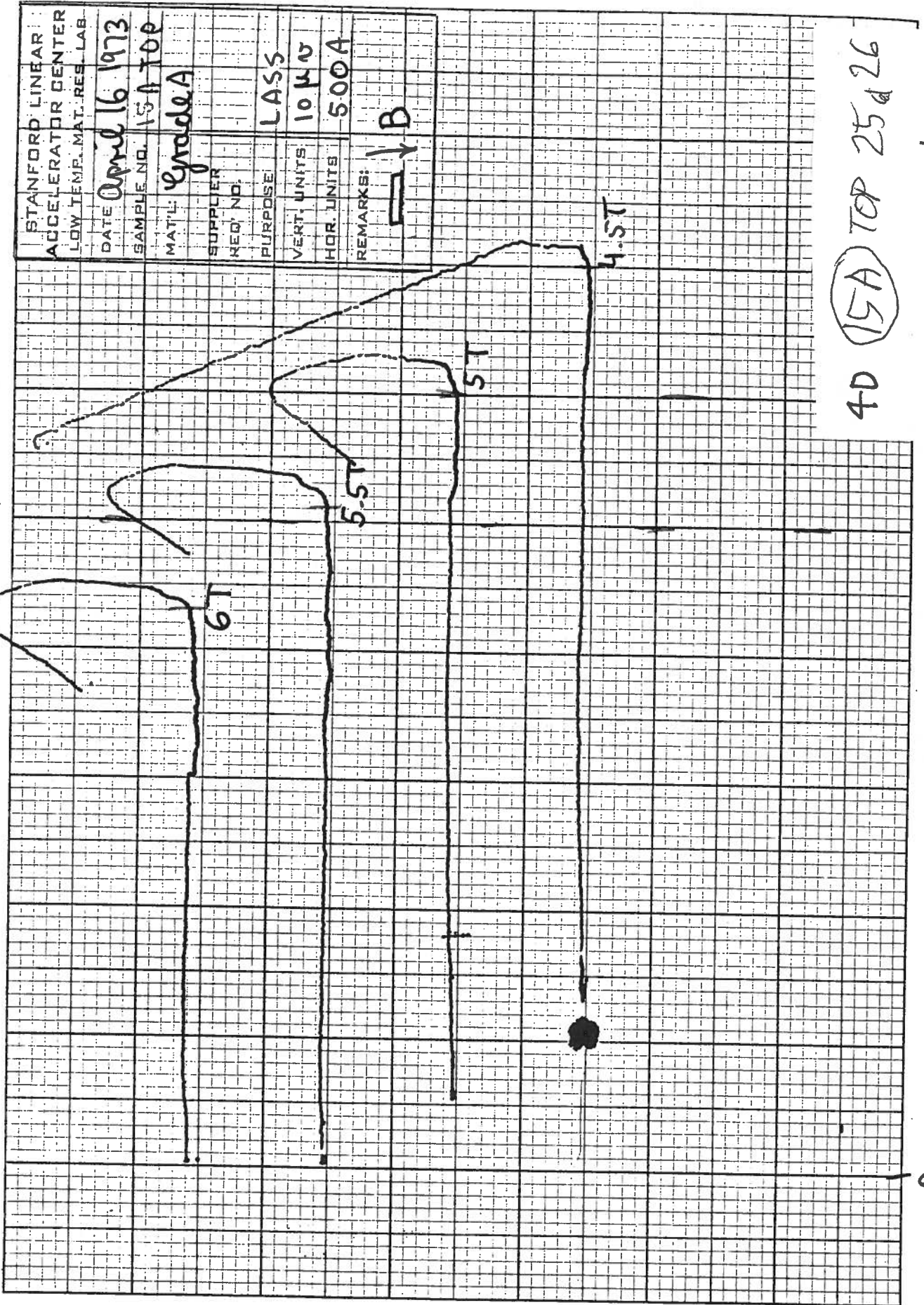


STANFORD LINEAR
 ACCELERATOR CENTER
 LOW TEMP. MAT. RES. LAB.
 DATE April 12 1973
 SAMPLE NO. 4A BOT
 MATTLE grade A
 SUPPLIER
 RED. NO.
 PURPOSE LASS
 VERT. UNITS 10mV
 HOR. UNITS 500A
 REMARKS:
 □ ↑ B

4D (4A) BOT 23929

1111111

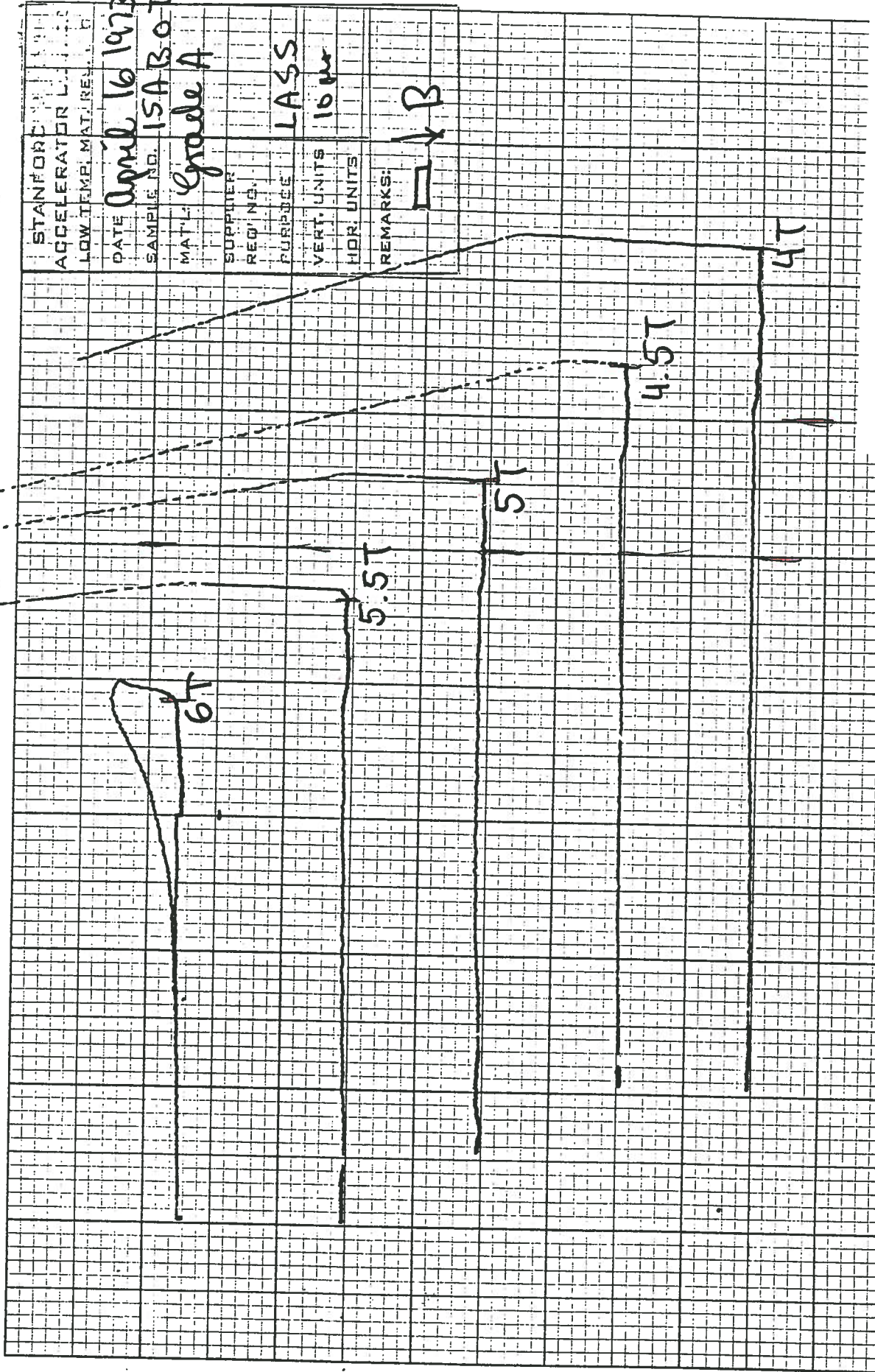
HEWLETT-PACKARD, MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION



40 (15A) TOP 25 d 26

11000A

0

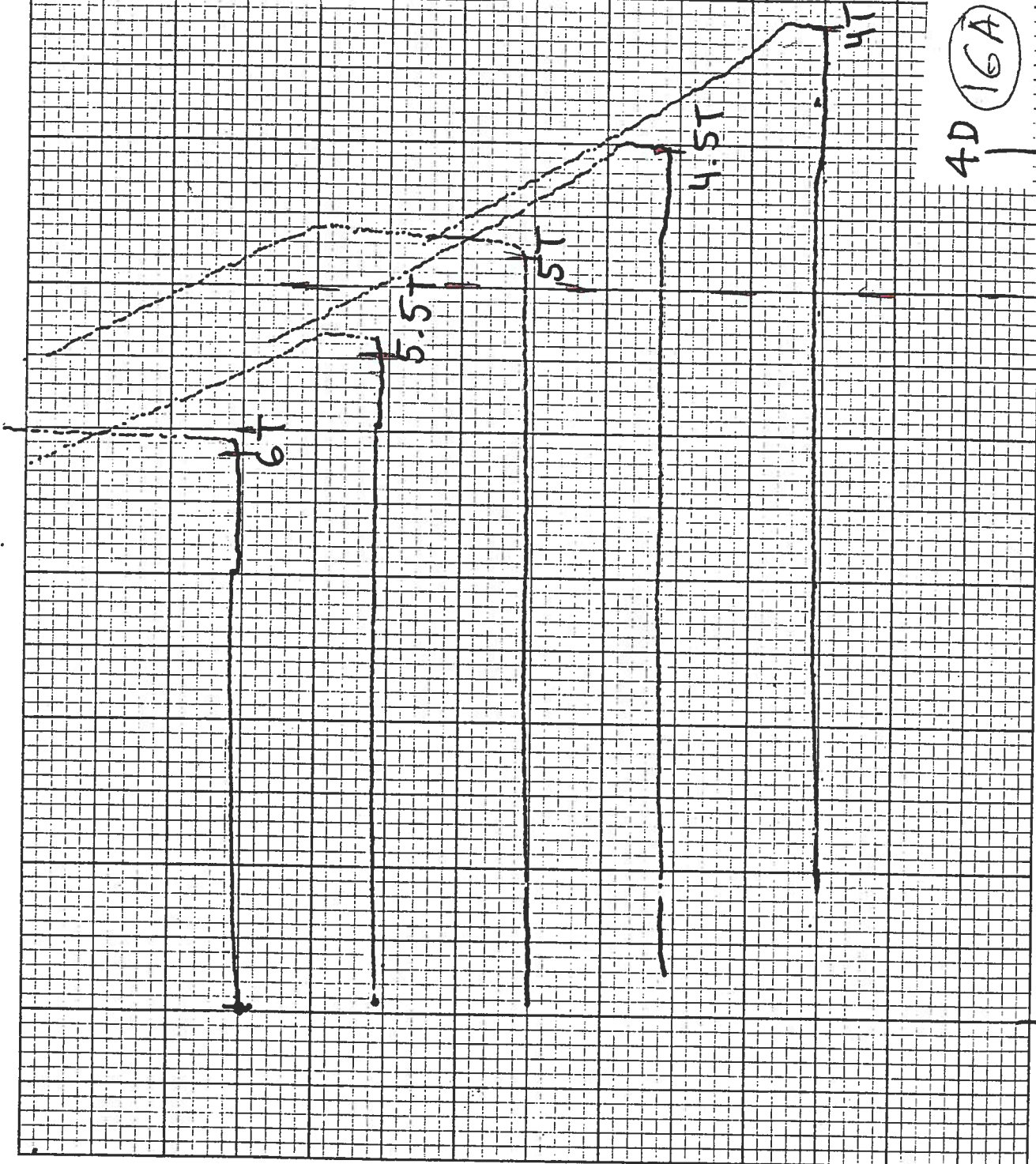


4D (15A) BOT 25/26

4000A

0

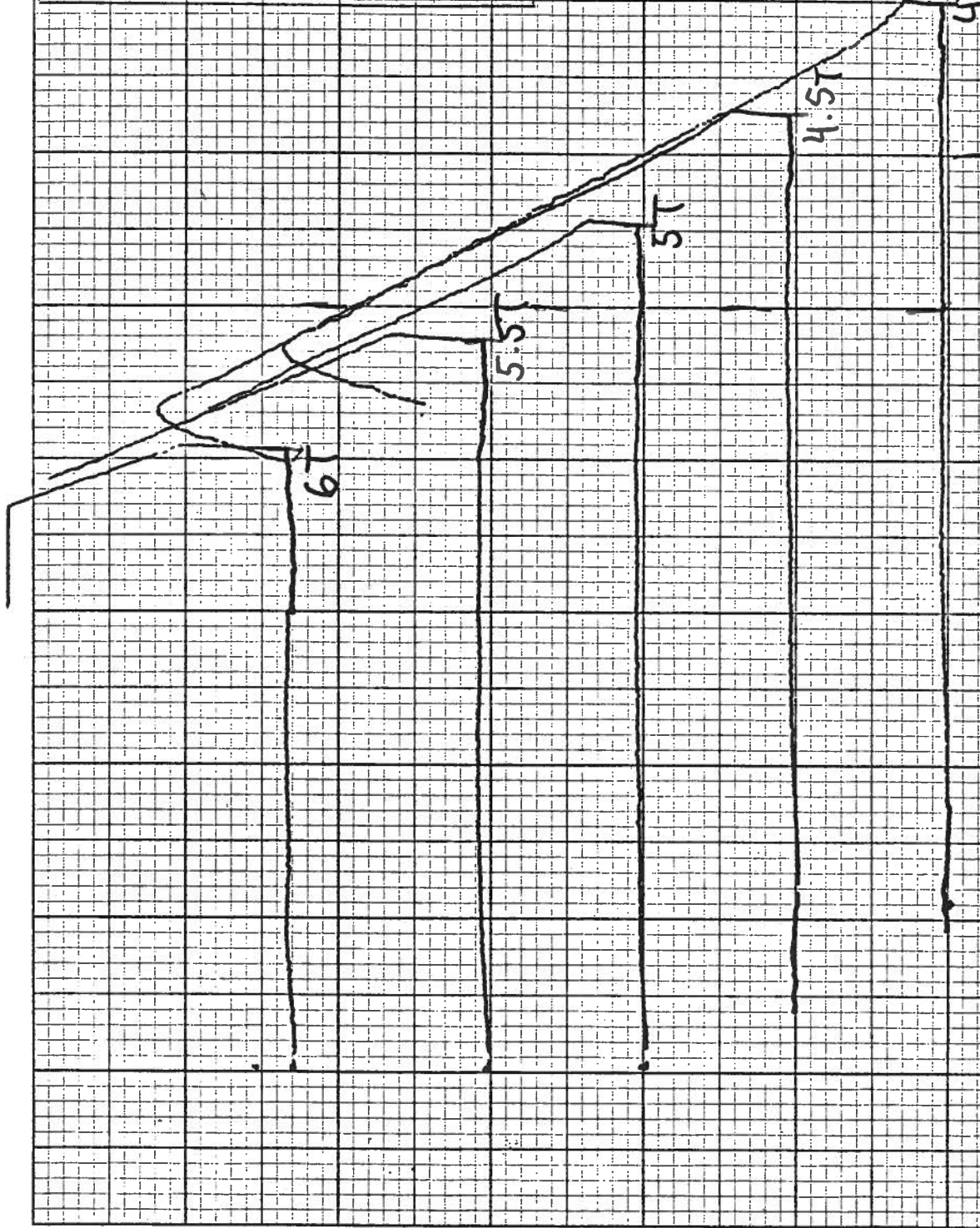
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	
DATE	April 16 1973
SAMPLE NO.	16A TOP
MAT'L	Grade A
SUPPLIER	
REC. NO.	
PURPOSE	LASS
VERT. UNITS	10mv
HOR. UNITS	500A
REMARKS:	□ ↓ B



4D 16A TOP 272/28


UNND

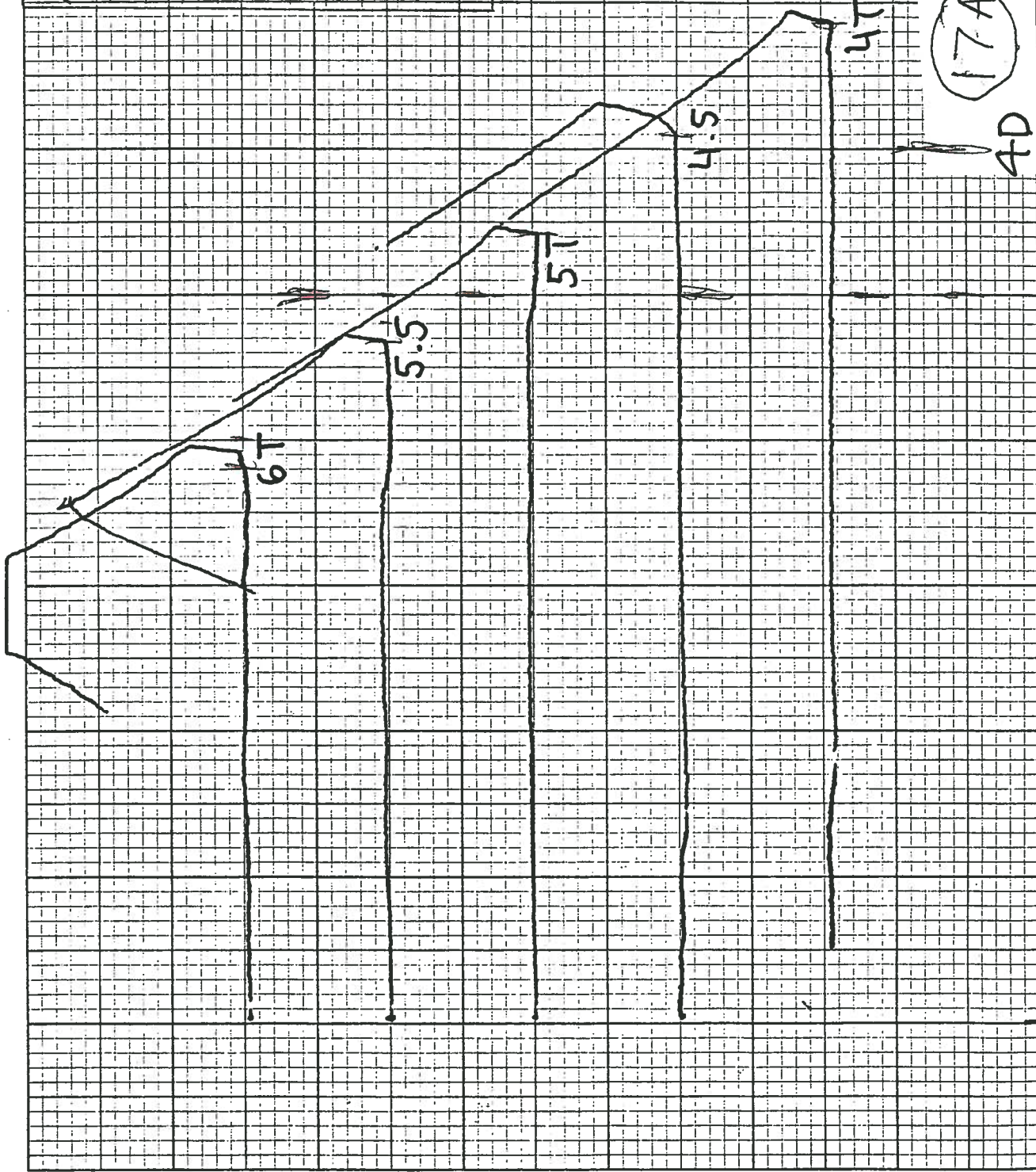
STATION	
ACCELERATION	
LOW TEMP. MA	
DATE	April 16 1973
SAMPLE NO.	16A BOT
MATL	Grade A
SUPPLIER	
REQ. NO.	
PURPOSE	LASS
VERT. UNITS	10 MW
HQR. UNITS	500 A
REMARKS:	



4D 16A BOT 27 28

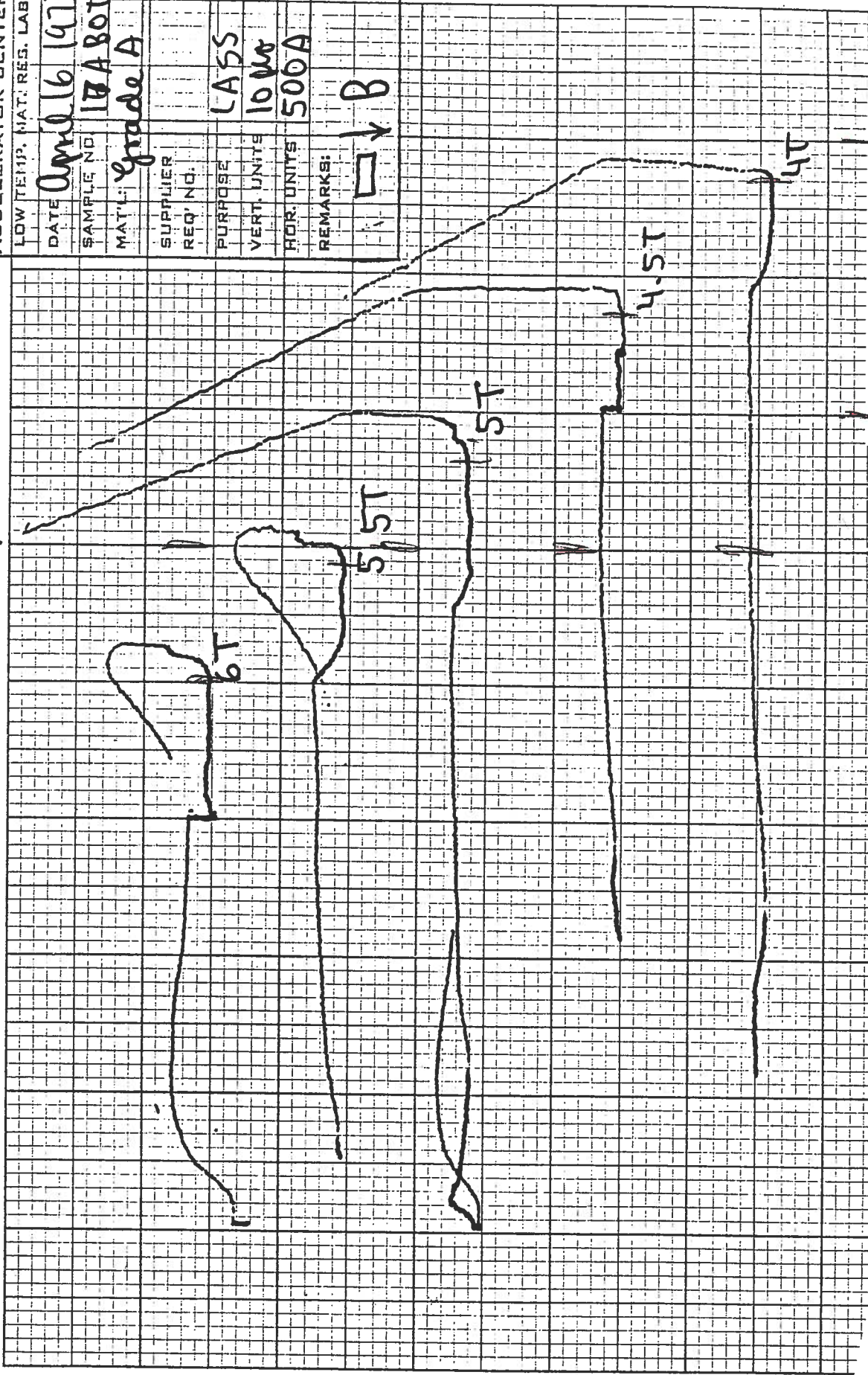
4000A

STANFORD LINEAR
ACCELERATOR CENTER
LOW TEMP. MAT. RES. LAB.
DATE: April 16 1973
SAMPLE NO. 17A TOP
MAT'L: Grade A
SUPPLIER:
RED NO.:
PURPOSE: LASS
VERT. UNITS: 10µm
HOR. UNITS: 500A
REMARKS:  \downarrow B



coil A
 17A TOP 29 a 30
 4D
 4000A

STANFORD LINEAR ACCELERATOR CENTER	
LOW TEMP. MAT. RES. LAB	
DATE	April 16 1973
SAMPLE NO	17A BOT
MAT.	Grade A
SUPPLIER	
REQ. NO.	
PURPOSE	LASS
VERT. UNITS	10 μ m
HOR. UNITS	500A
REMARKS:	$\square \rightarrow B$

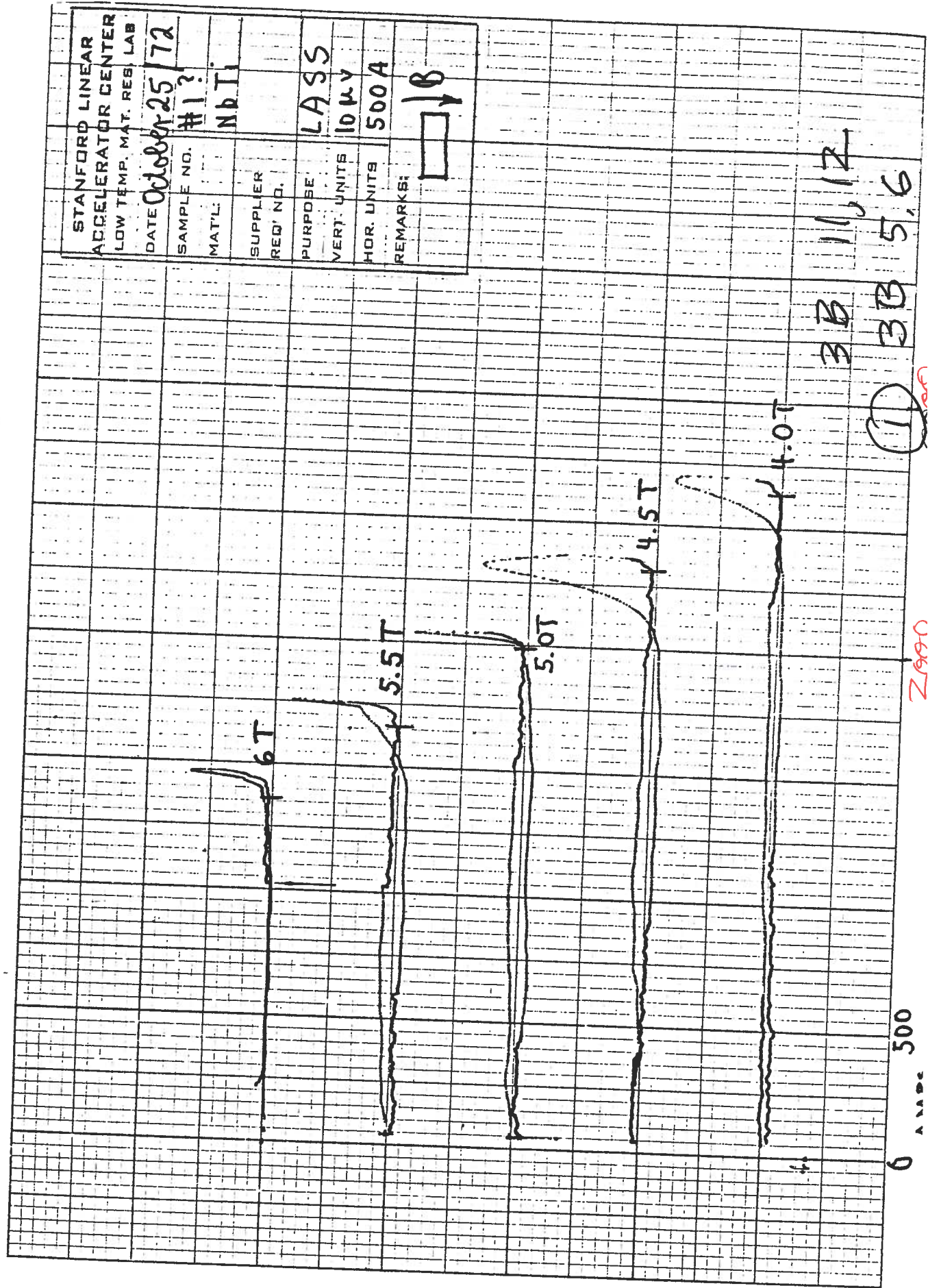


COL 4
 4D (17A) BOT 29130

4000A

0

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

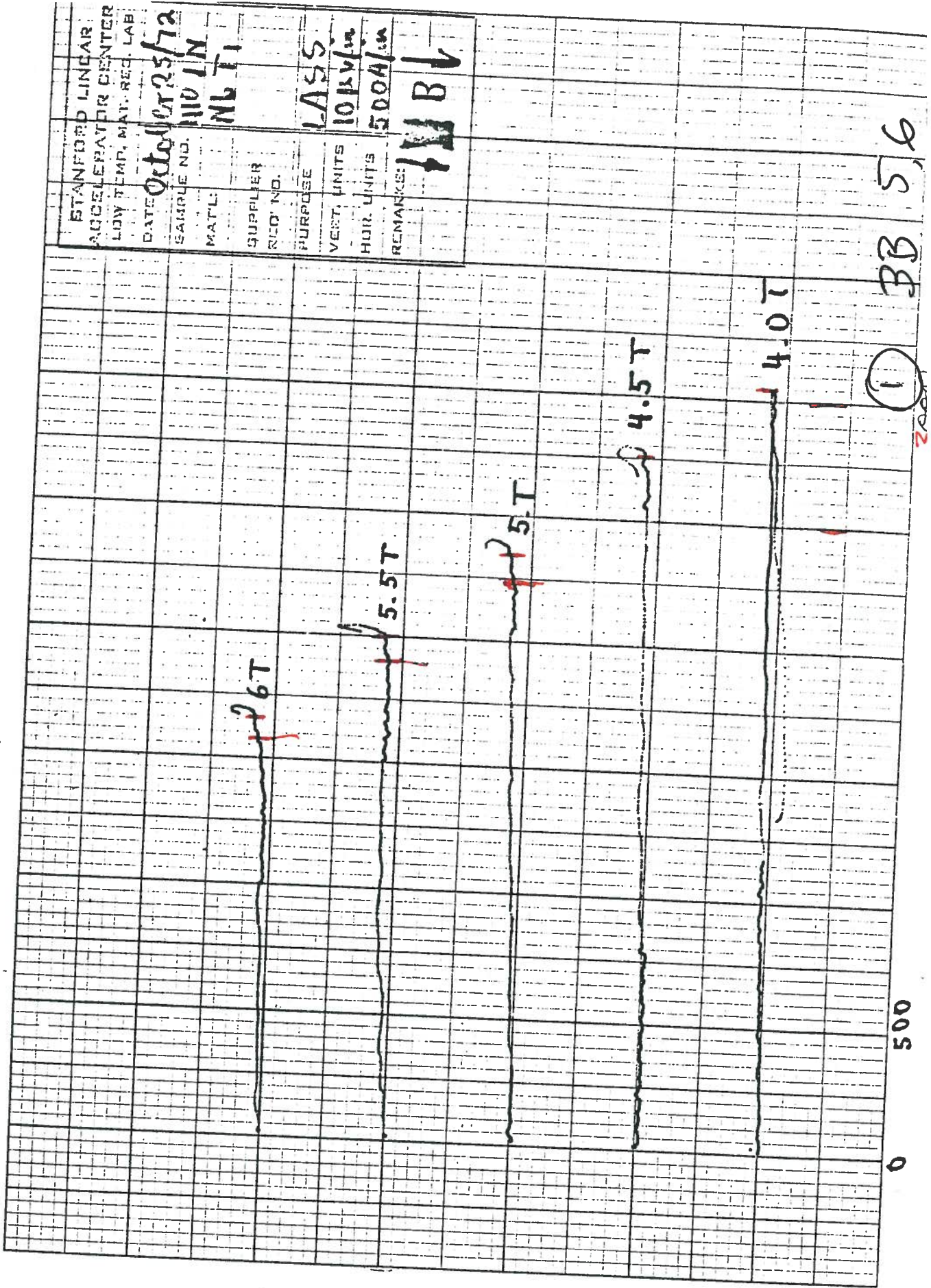


STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	
DATE	October 25 / 72
SAMPLE NO.	#1?
MAT'L	NbTi
SUPPLIER REQ' NO.	
PURPOSE	LASS
VERT. UNITS	10KV
HOR. UNITS	500A
REMARKS:	□ ↓ β

3B 11, 12
 3B 5.6
 ①

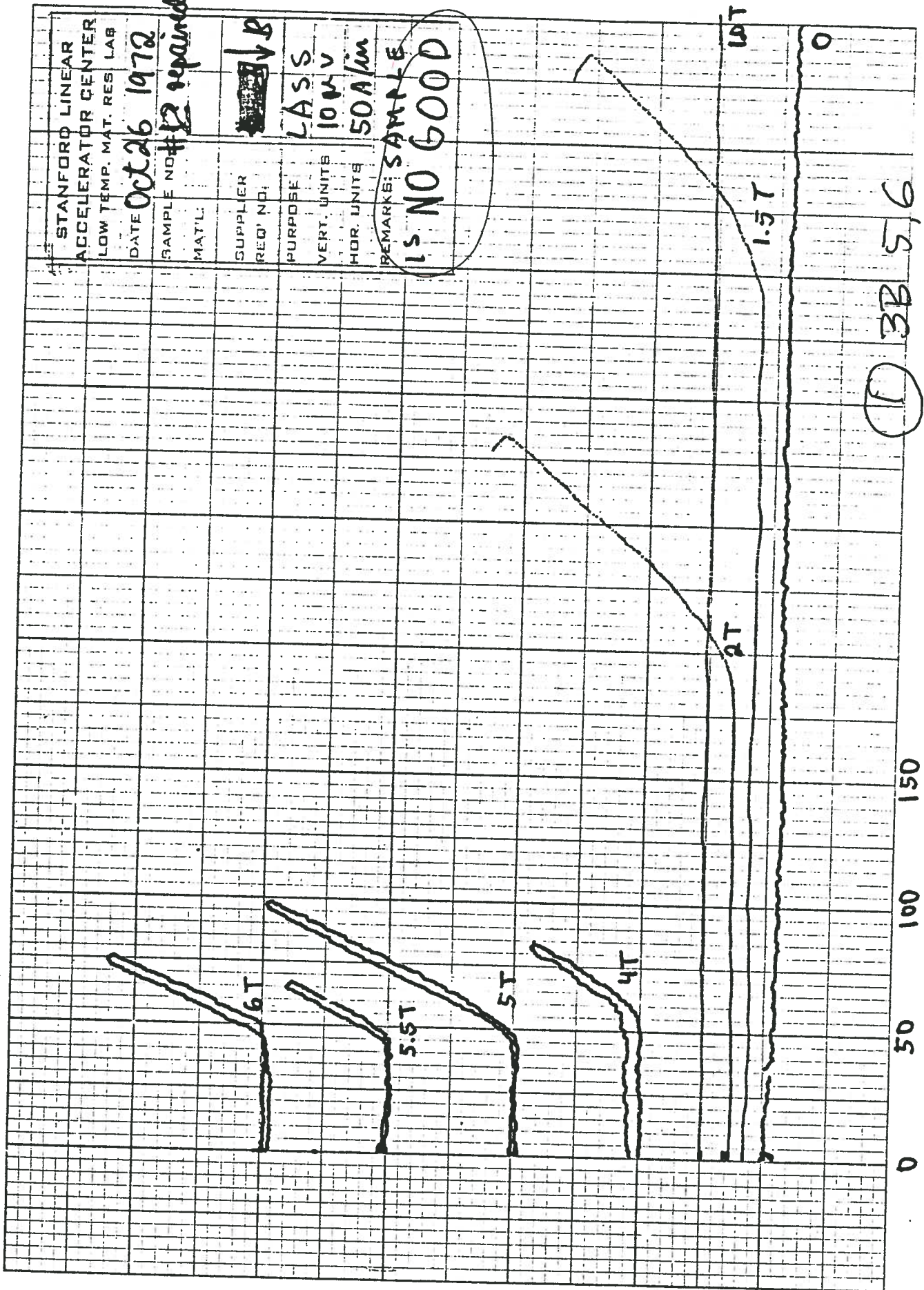
500
 A.M.S.C.
 Z1990

HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION



STANFORD LINDAR	DATE	October 25/72
ACCELERATOR CENTER	SAMPLE NO.	110 IN
LOW TEMP. MAT. REC. LAB.	MAT'L	NbTi
SUPPLIER	PURPOSE	LASS
REQ. NO.	VERT. UNITS	10kV/in
	HOR. UNITS	500H/in
	REMARKS	MBJ

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION



BB 56

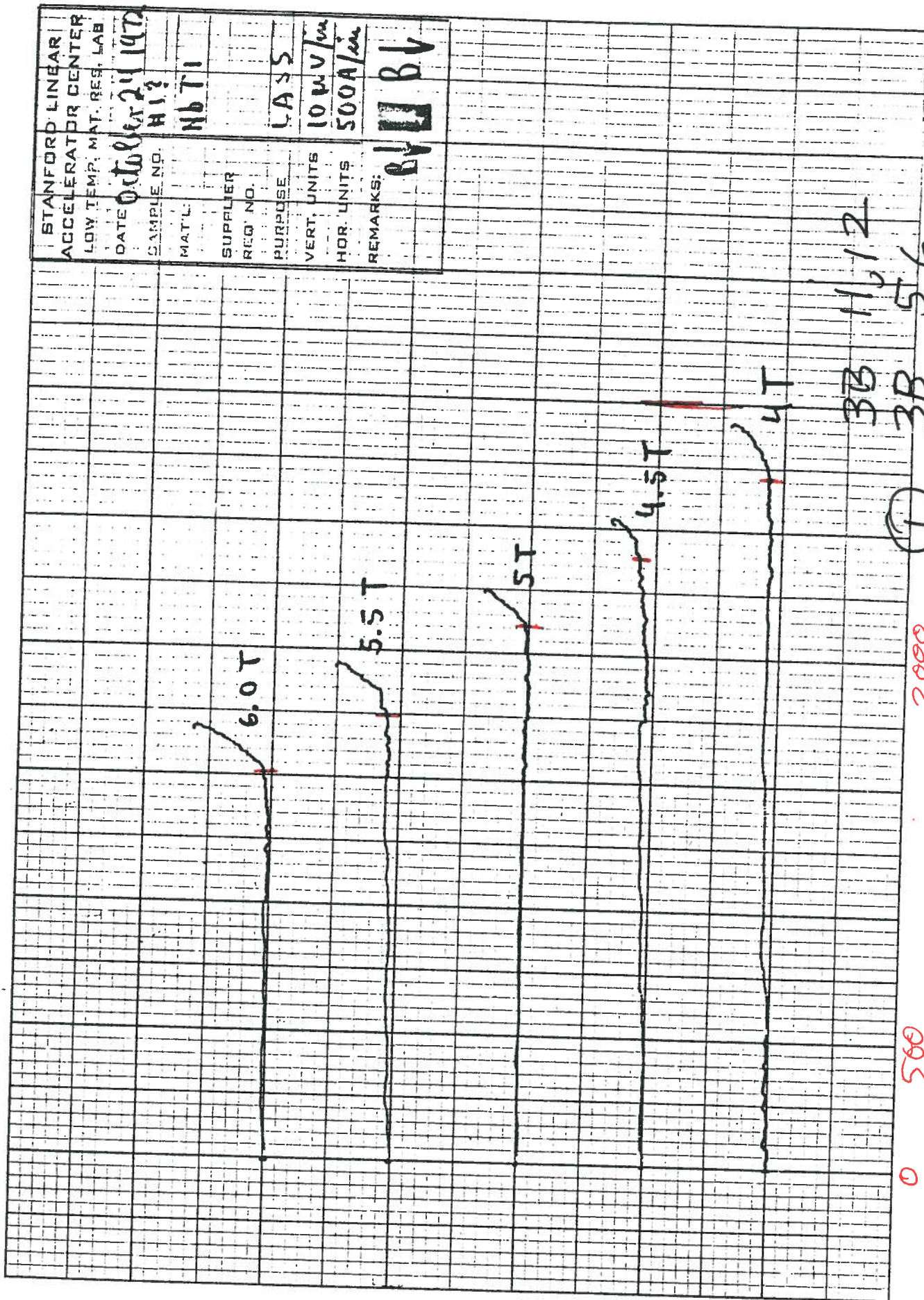
10T

1.5T

2T

0 50 100 150

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION



STANFORD LINEAR
 ACCELERATOR CENTER
 LOW TEMP. MAT. RES. LAB.
 DATE: October 24 1972
 SAMPLE NO. H13
 MAT'L: NbTi
 SUPPLIER: LASS
 REQ. NO.:
 PURPOSE: 10 mV/cm
 500 A/cm
 VERT. UNITS: 10 mV/cm
 HOR. UNITS: 500 A/cm
 REMARKS: BUBB

2000

500

0

3B 11/12
 3B 5-6

(T)

HEWLETT PACKARD/MOSELEY DIVISION
 9270.1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION



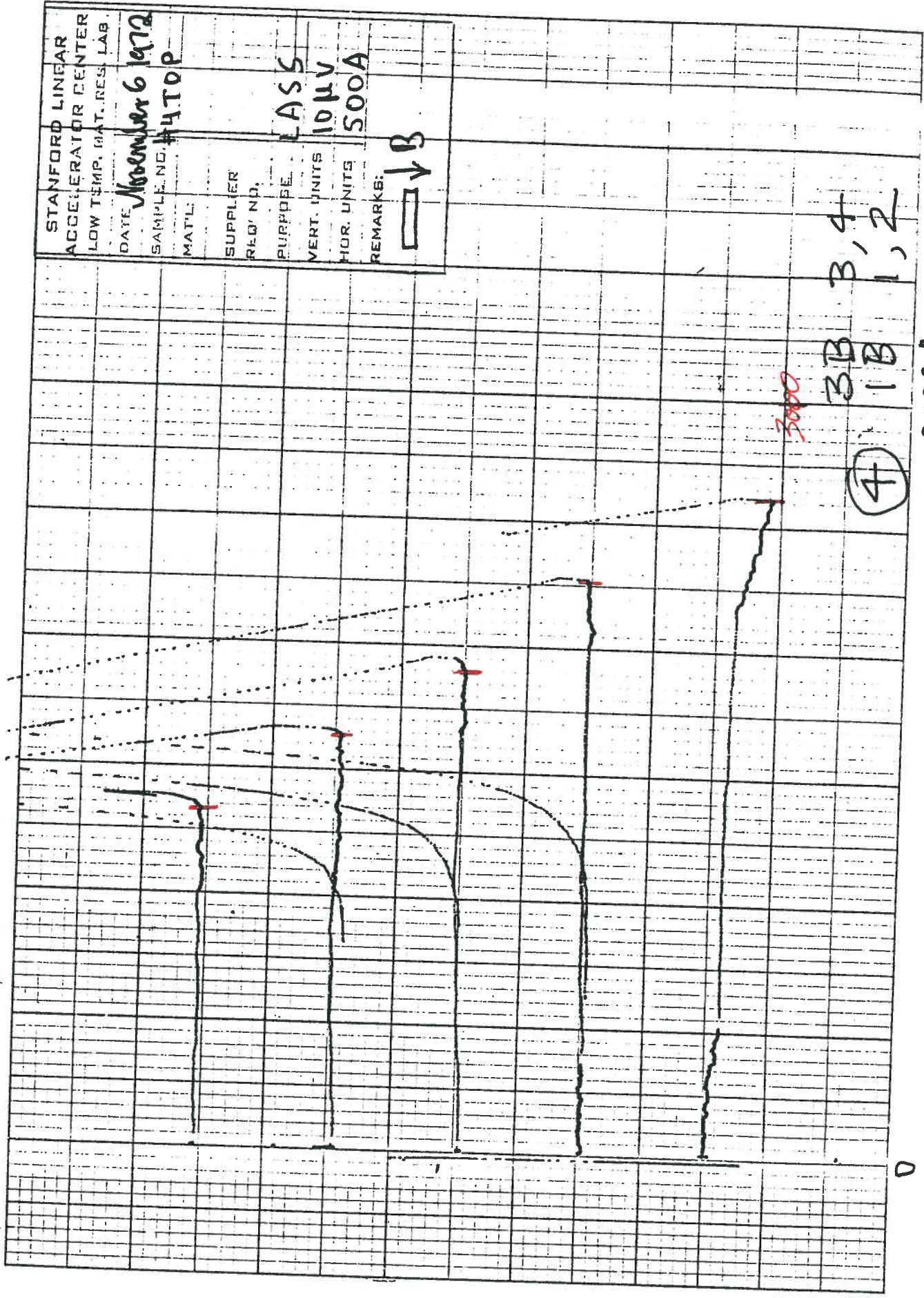
STANFORD LINEAR ACCELERATOR CENTER	DATE <u>October 26/72</u>
LOW TEMP. MAT. RES LAB	SAMPLE NO. <u>H 3LT</u>
MAT'L <u>NbTi</u>	SUPPLIER
PURPOSE <u>LASS</u>	RED' NO.
VERT. UNITS <u>10mV</u>	HOR. UNITS <u>500A/m</u>
REMARKS:	


□/B

③
 3B
 3D
 128
 218

0 ... 500 1000

HEWLETT PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

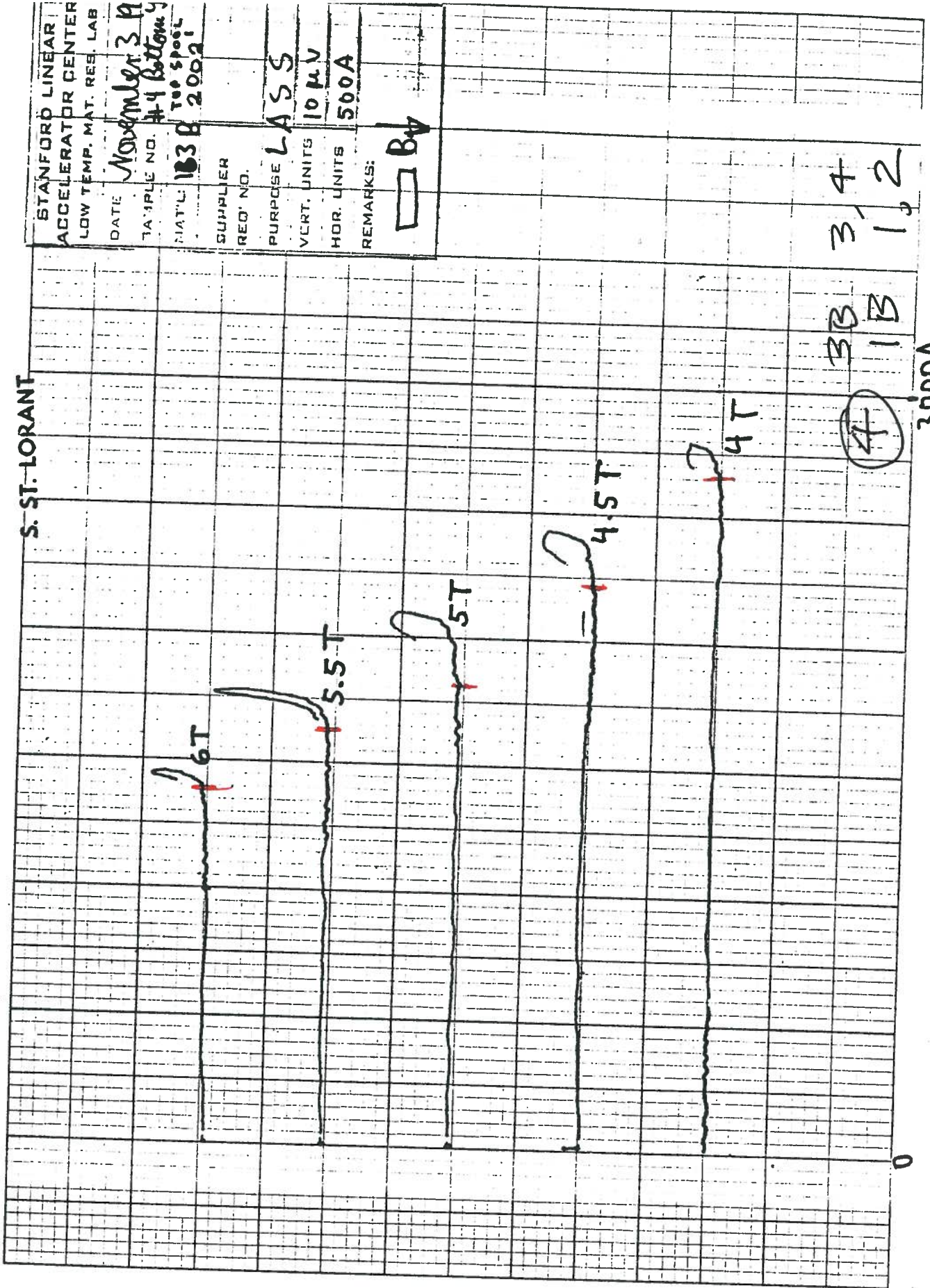


STANFORD LINEAR
ACCELERATOR CENTER
LOW TEMP. MAT. RES. LAB.
DATE: November 6 1972
SAMPLE NO. #4 TOP
MATL:
SUPPLIER
RED' NO.
PURPOSE: LASS
VERT. UNITS: 10mV
HOR. UNITS: 500A
REMARKS: 

3000
 3B 3, 4
 1B 1, 2
 (4)

HEWLETT PACKARD DIVISION
 RECEIVED 11/7/1972
 FOR USE ON AUTOGRAF RECORDERS
 NOV UNIT 6 1972

S. ST. LORANT

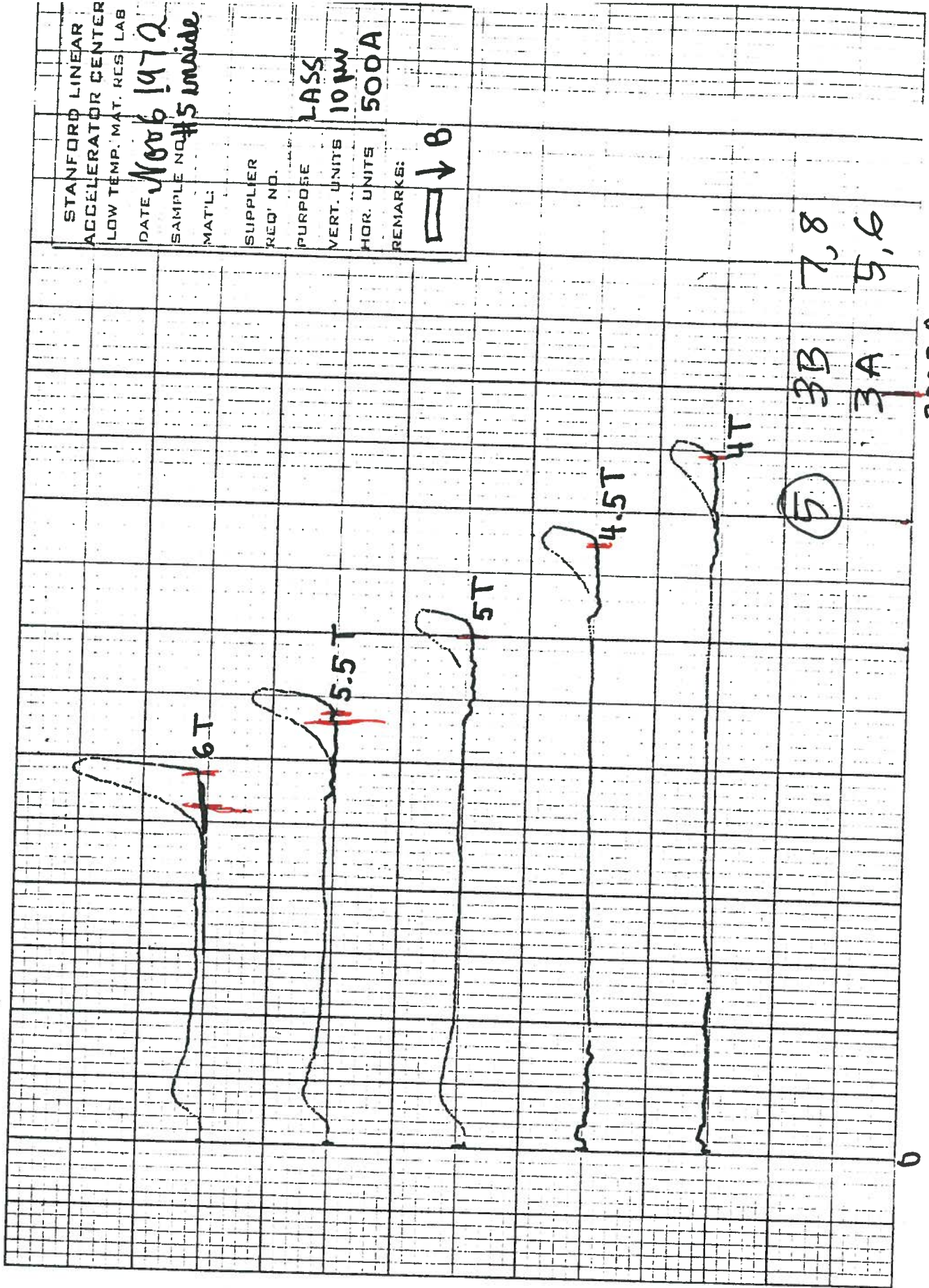


STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	DATE November 3 1972
TAPLE NO. #4 Bottom y	MATERIAL 1038 Top Spool
SUPPLIER	REQ. NO.
PURPOSE LASS	VERT. UNITS 10 μV
HOR. UNITS 500A	REMARKS: □ B →

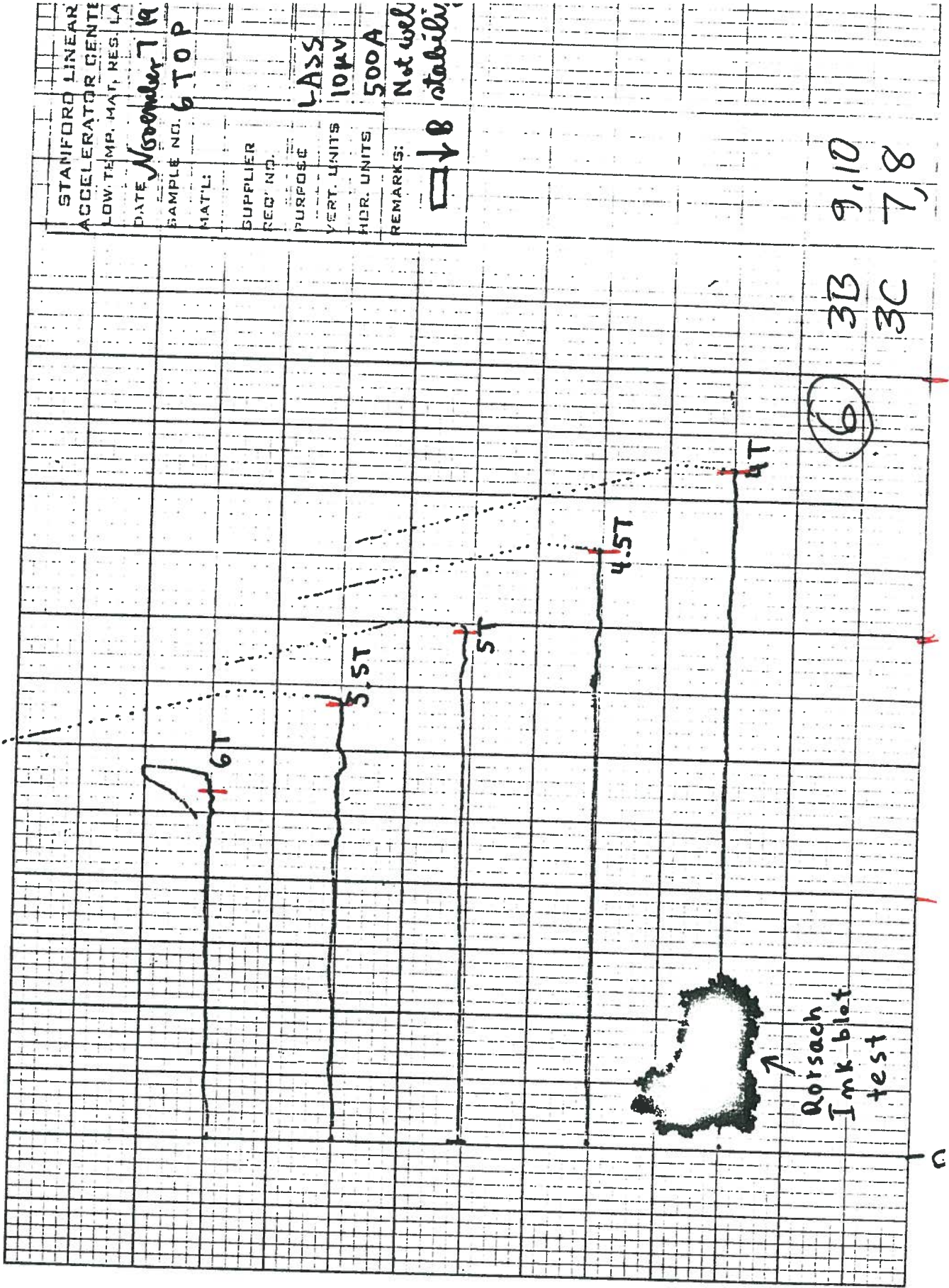
3B
 1B
 4
 3, 4
 1, 2

20000

HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION



HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

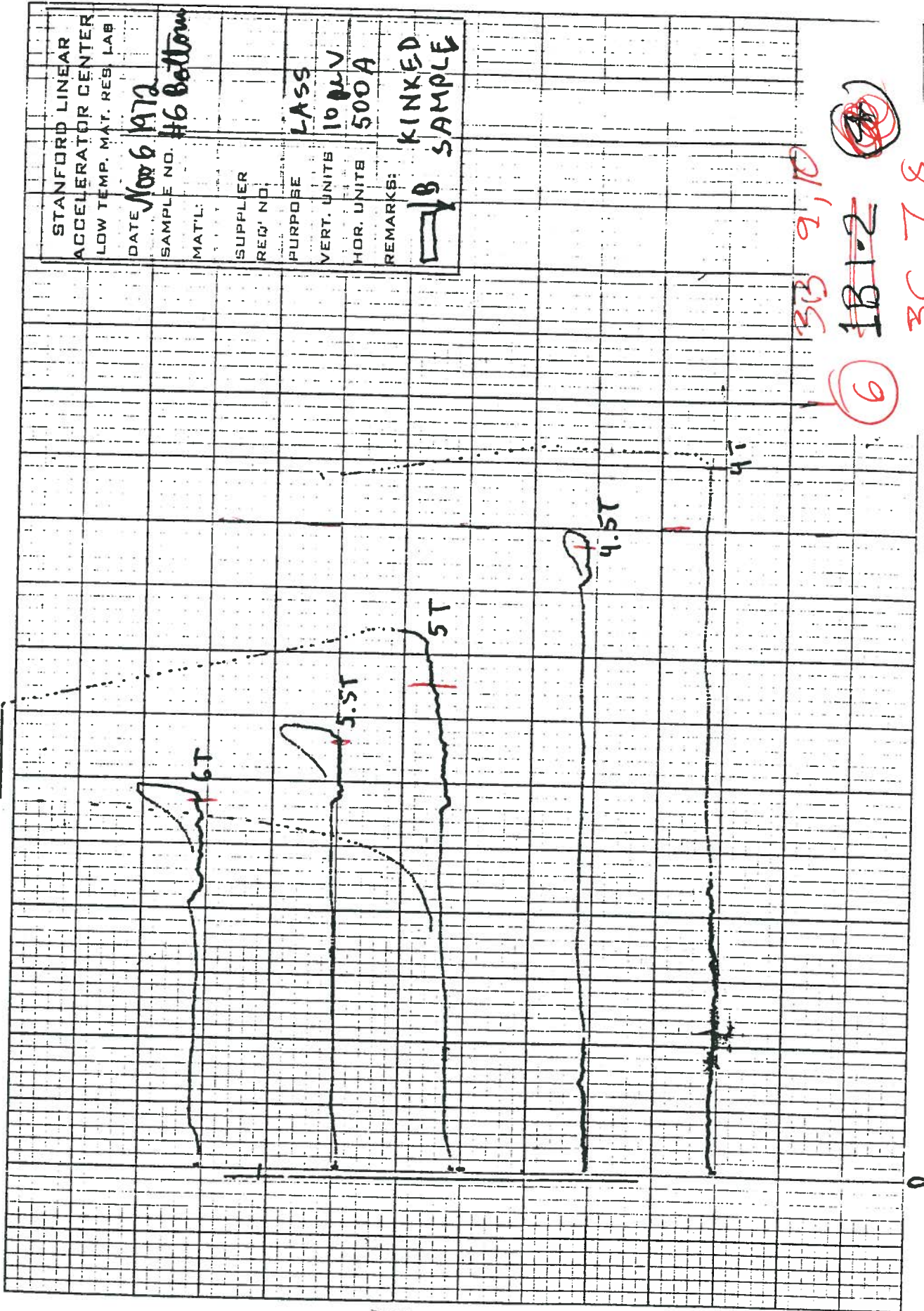


STANFORD LINEAR
 ACCELERATOR CENTE
 LOW TEMP. MAT, RES. LA
 DATE November 7 19
 SAMPLE NO. 6 TOP
 MAT'L:
 SUPPLIER
 REQ' NO.
 PURPOSE LASS
 VERT. UNITS 10KV
 HDR. UNITS 500A
 REMARKS: Not well stabilized
 □ ↓ 8

3B 9,10
 3C 7,8
 (6)

Rorsach
 Ink-blot
 test

HEWLETT-PACKARD/MOSELEY DIVISION
9270.1006
FOR USE ON AUTOGRAF RECORDERS
10 UNITS/DIVISION



3000 H

HEWLETT PACKARD/MOSELEY DIVISION
 9270-1005
 FOR USE ON AUTOGRAPH RECORDERS
 10 DIVISION

STANFORD LINEAR
 ACCELERATOR CENTER
 LOW TEMP. MAT. RES. LAB

DATE **November 20 1972**

SAMPLE NO. **#7 TOP**


MAT'L:

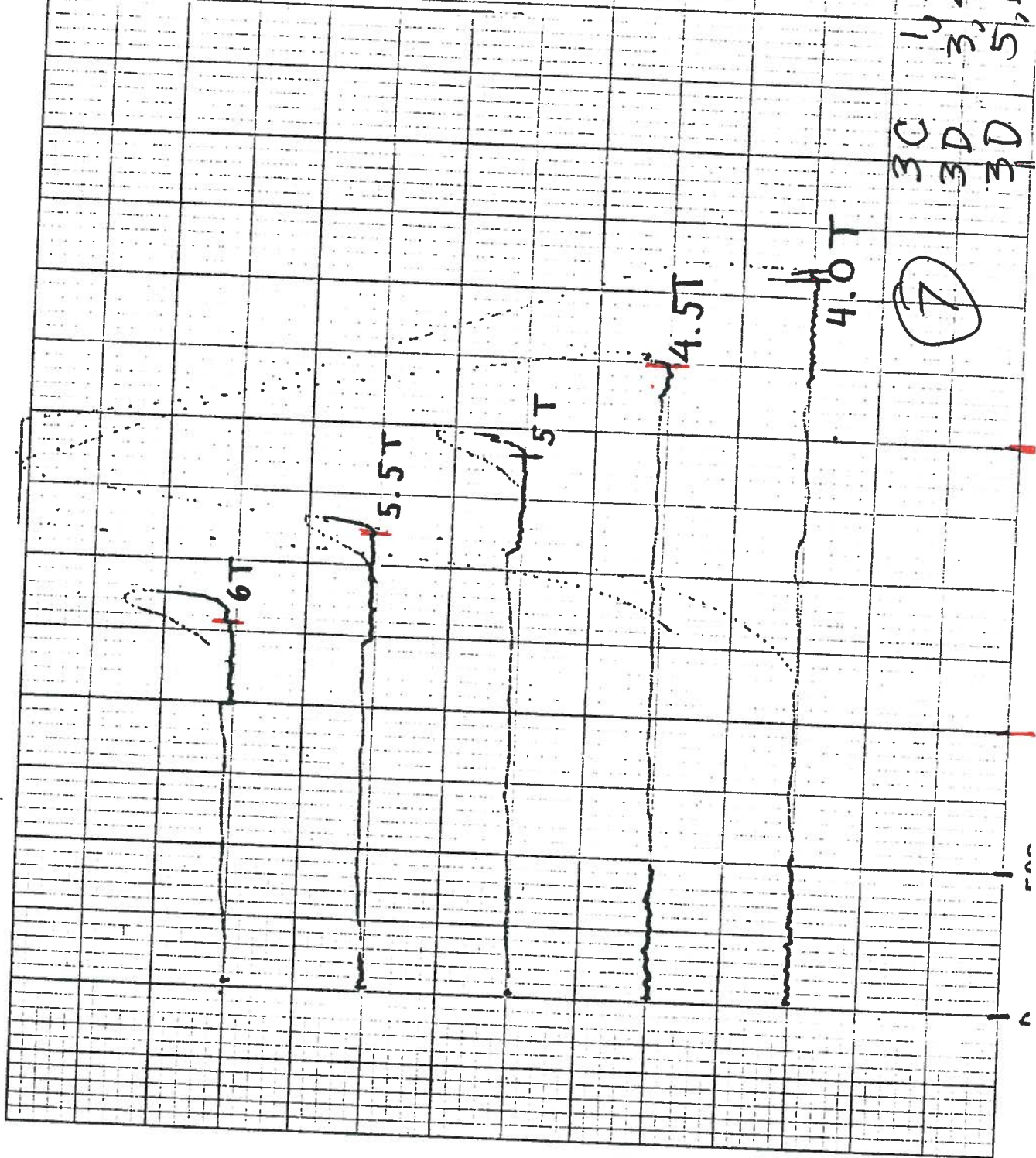
SUPPLIER **7801**
 RES. NO. **Mh**

PURPOSE **L.A.S.S.**

VERT. UNITS **10kV/cm**

HOR. UNITS **500 A/cm**

REMARKS: 

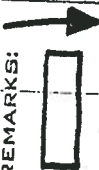


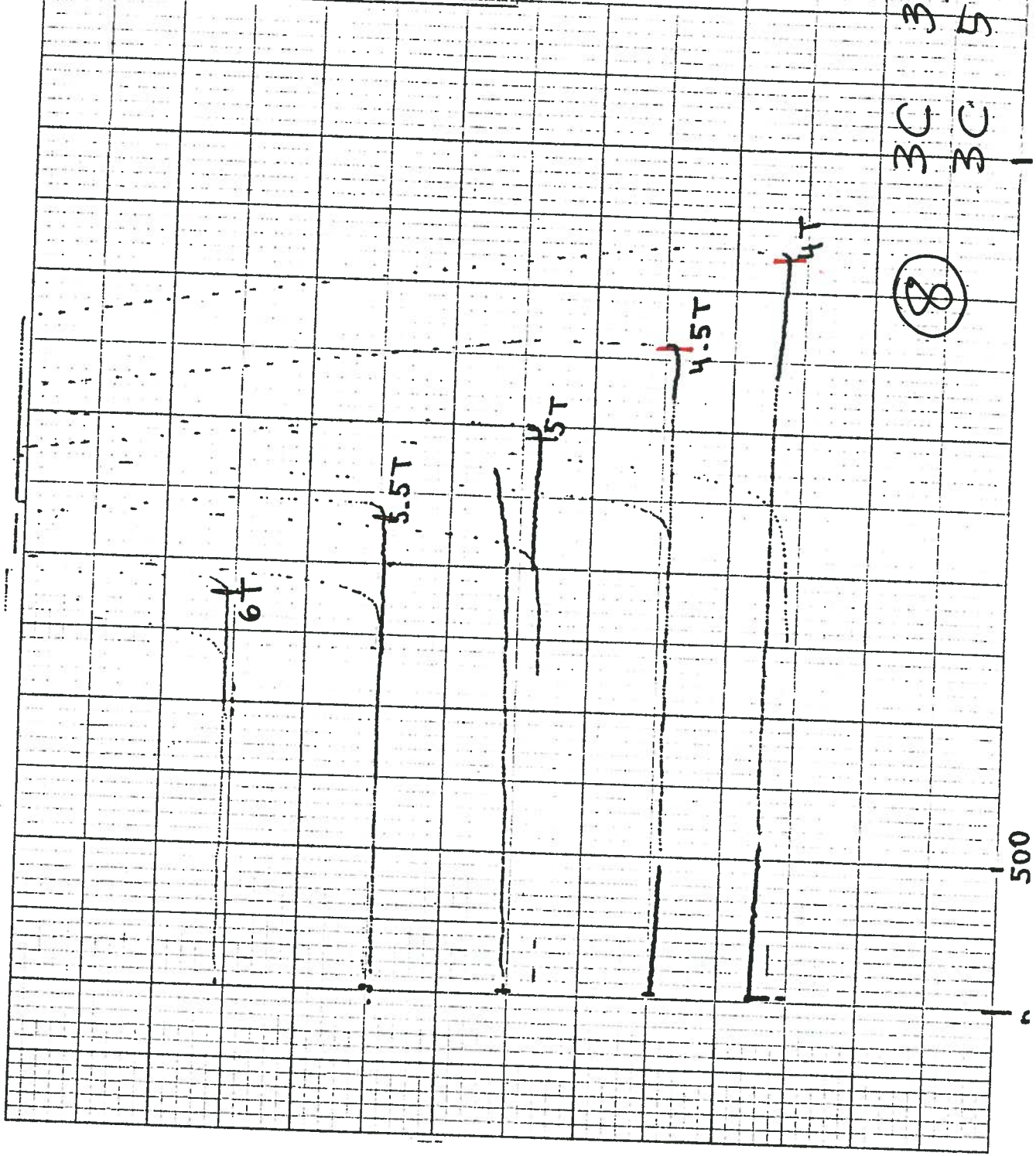
3C
 3D
 3D

⑦

1, 2
 3, 4
 5, 6

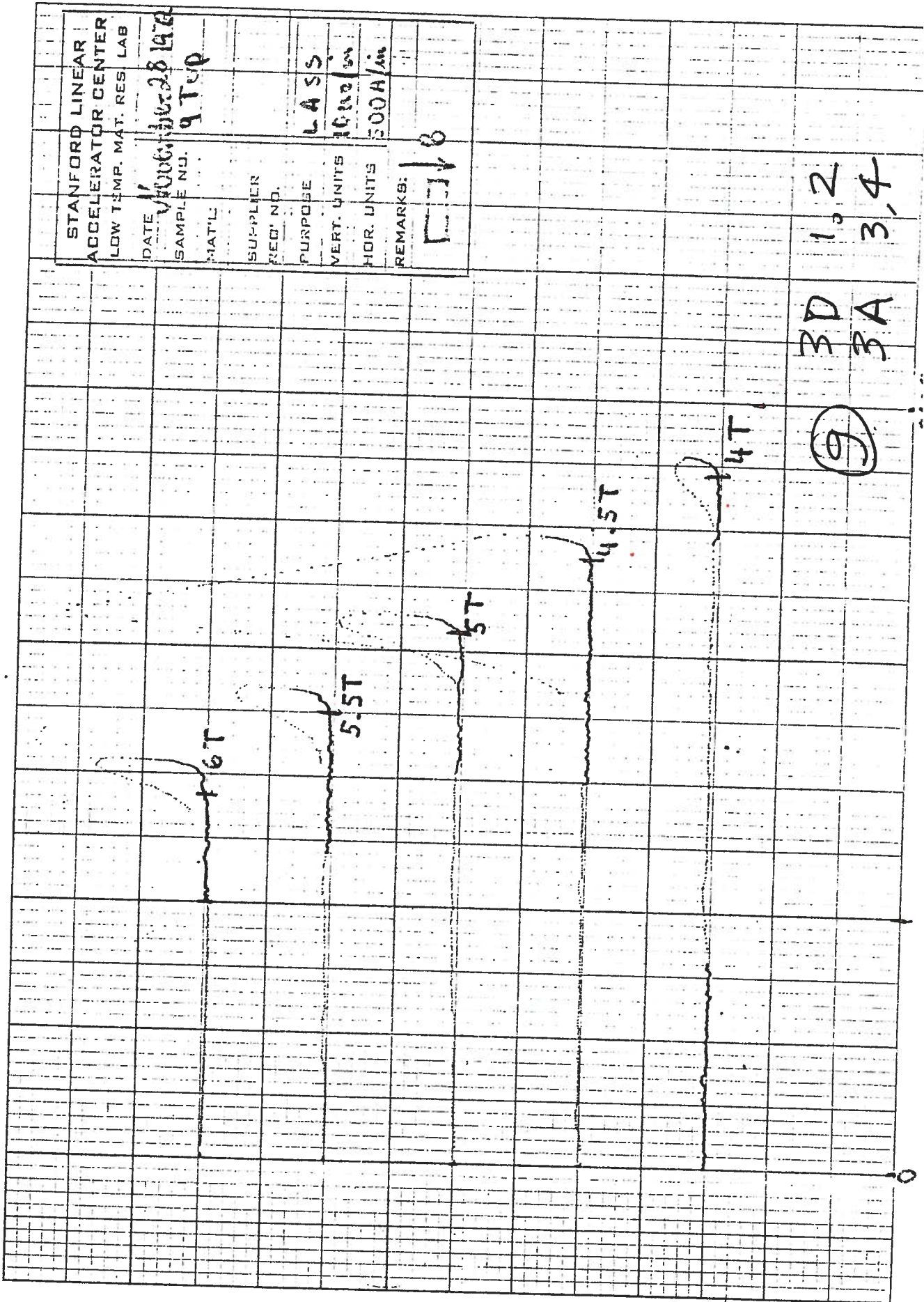
HEWLETT-PACKARD/MOSELEY DIVISION
 9270:1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	DATE November 20 11	SAMPLE NO. 8 To P
MAT'L	SUPPLIER REQ. NO.	PURPOSE L.A.S.S.
VERT. UNITS 10 μs/in	HOR. UNITS 500 A/in	REMARKS: 



500

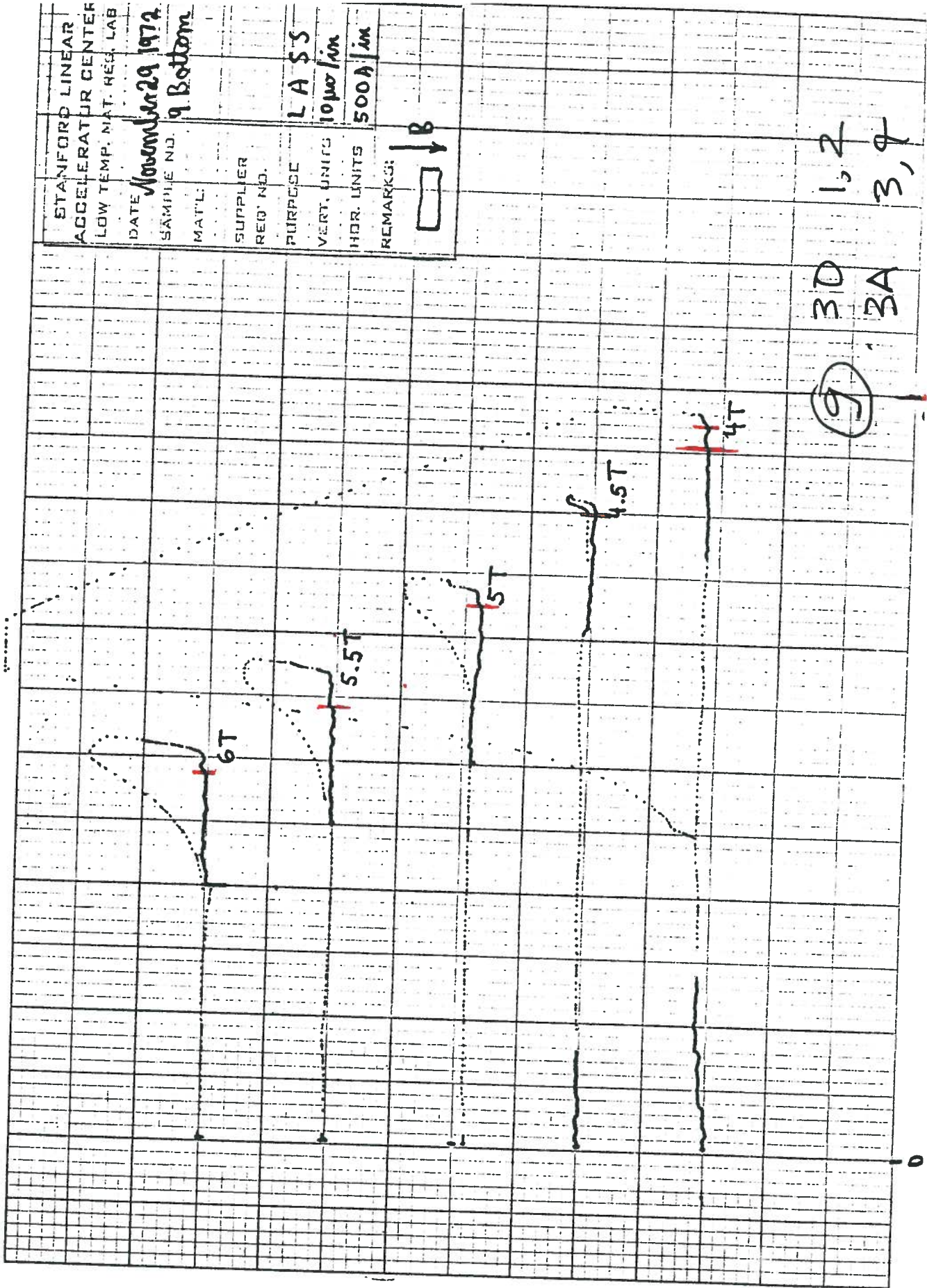
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION




STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: 11/10/66
SAMPLE NO. 28192
MAT'L: 9TOP
SUPPLIER
REG. NO.
PURPOSE: LASS
VERT. UNITS: 1000/m
HOR. UNITS: 500A/m
REMARKS: 1018

3D
 3A
 9
 1.2
 3.4

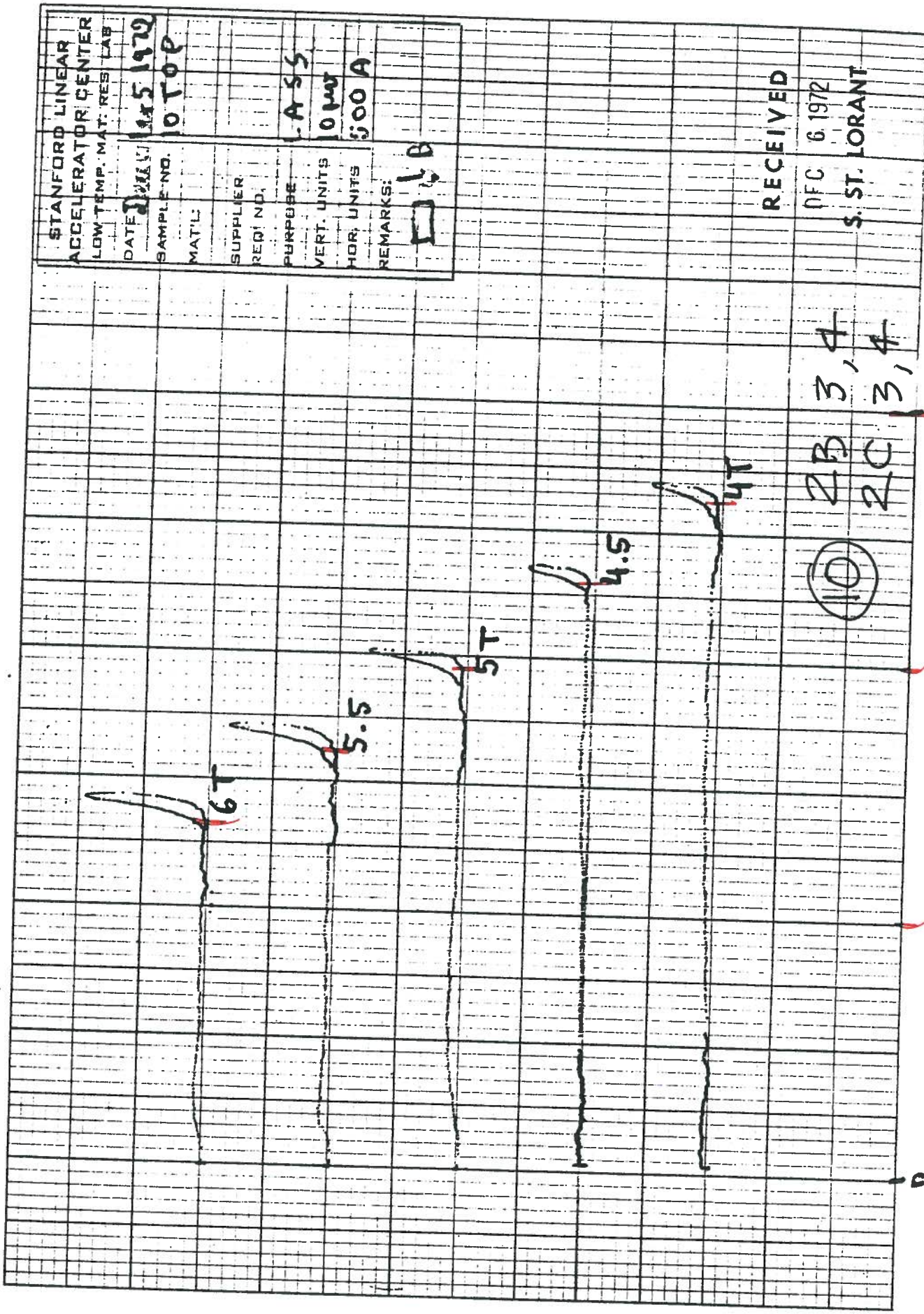
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION



STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. NAT. RES. LAB
DATE: <u>November 29 1972</u>
SAMPLE NO.: <u>9 Bottom</u>
MAT'L:
SUPPLIER REQ. NO.:
PURPOSE: <u>LA SS</u>
VERT. UNITS: <u>10 μo/1m</u>
HDR. UNITS: <u>500A/1m</u>
REMARKS: 

3D
 3A
 9
 1,2
 3,4

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

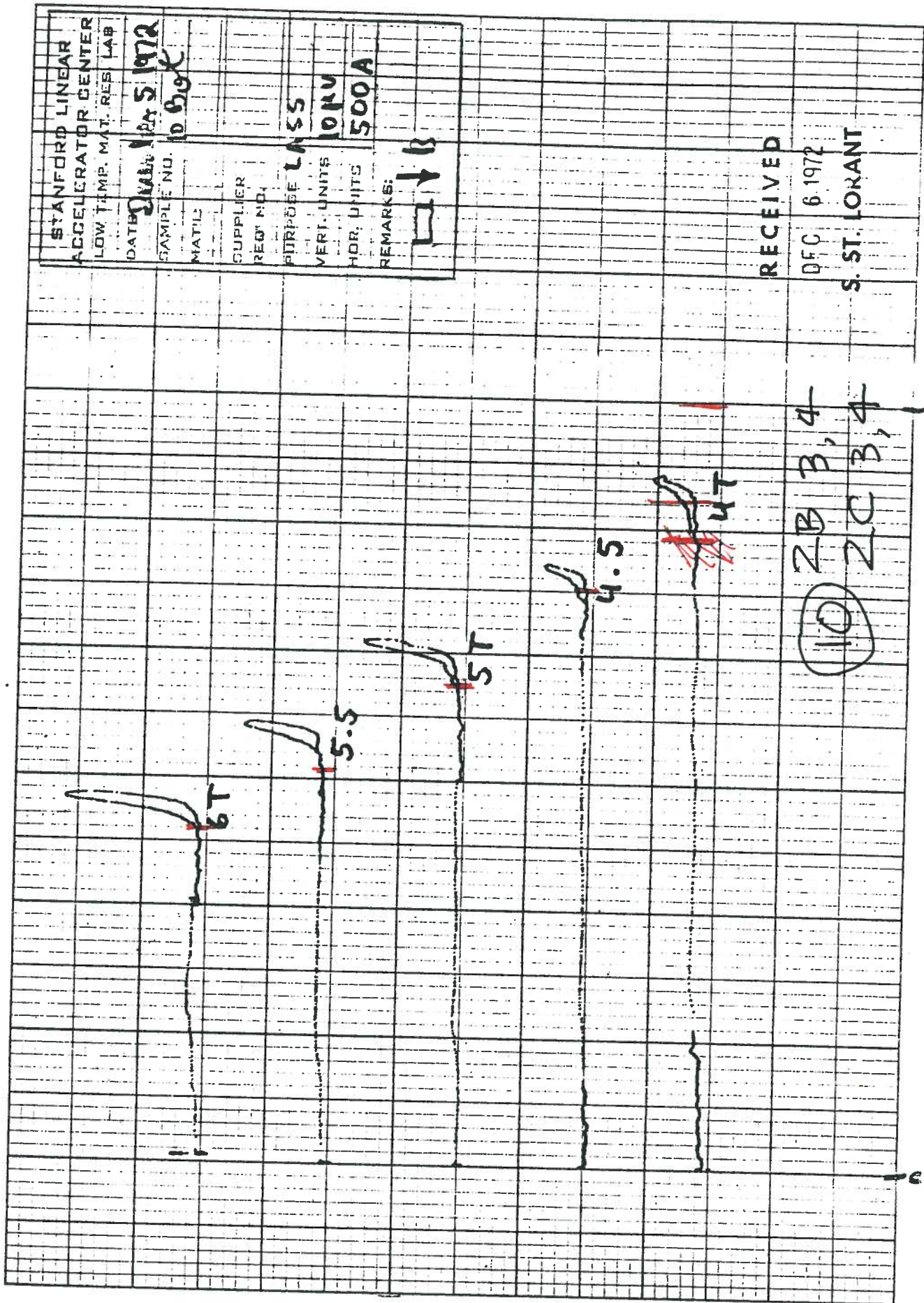


STANFORD LINEAR ACCELERATOR CENTER LOW-TEMP. MAT. RES. LAB.
DATE: 11/15/72
SAMPLE NO.: 10 TOP
MAT'L:
SUPPLIER:
REQ. NO.:
PURPOSE: LASS
VERT. UNITS: 10 μV
HOR. UNITS: 500 Å
REMARKS: 10TB

RECEIVED
 OFC 6.1972
 S. ST. LORANT

2B 3,4
 2C 3,4

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION

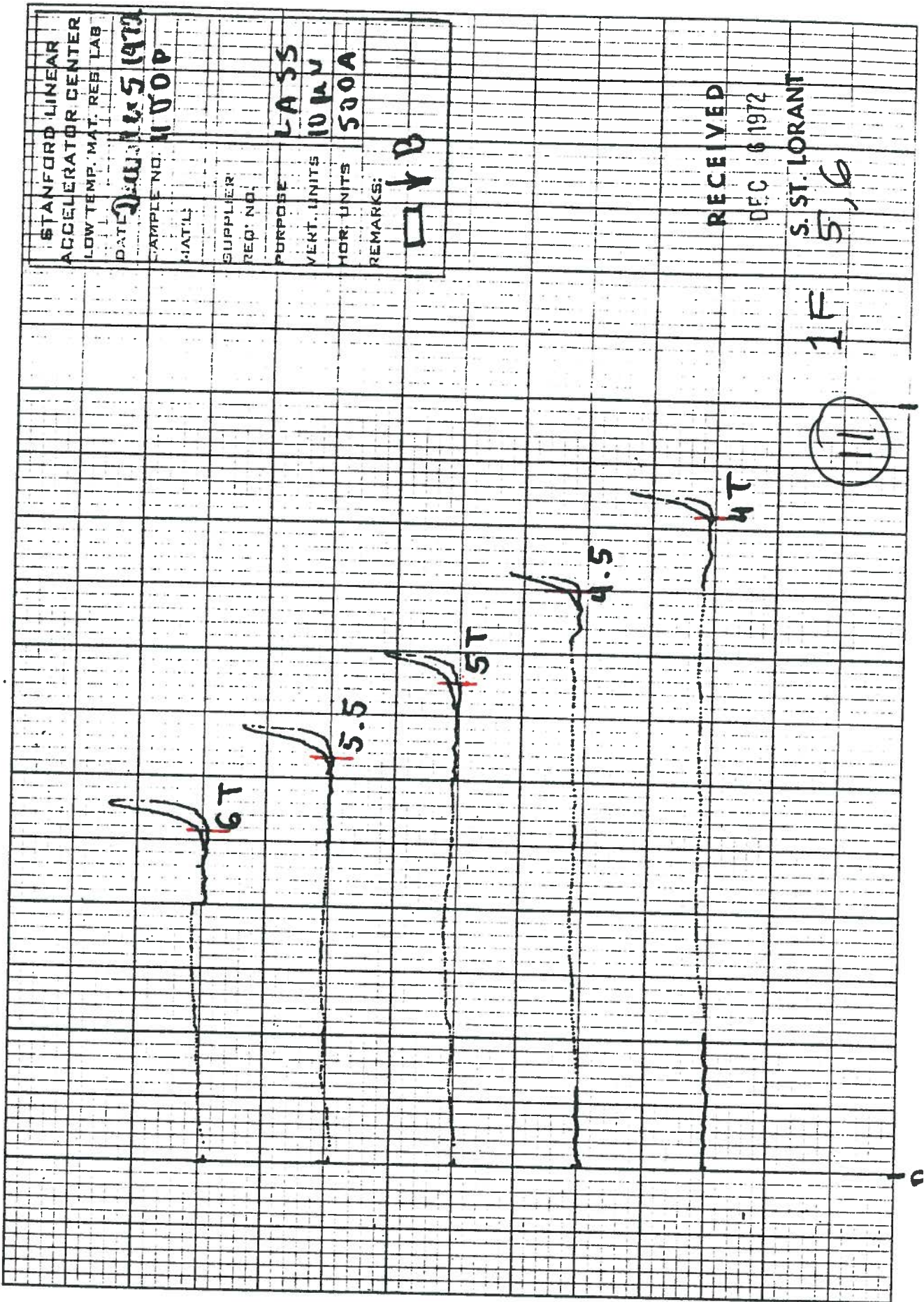


STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB	
DATE: JUN 5 1972	
SAMPLE NO. 10 60K	
MATERIAL:	
SUPPLIER:	
REQ. NO.:	
PURPOSE: LA 55	
VERT. UNITS: 10KV	
HOR. UNITS: 500A	
REMARKS:	LTB

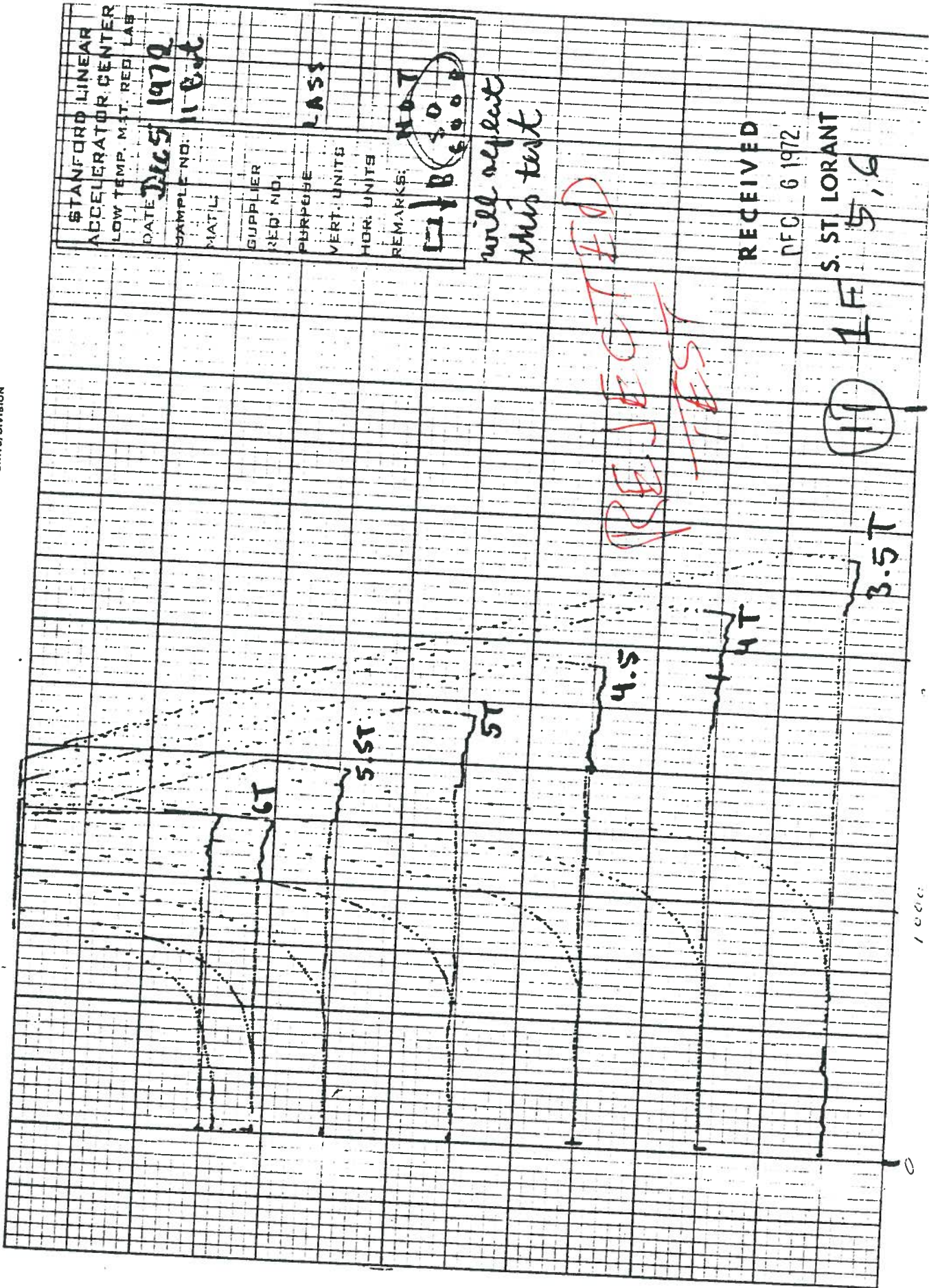
RECEIVED
 DFC 6.1972
 S. ST. LORANT

110
 ZB 3, 4
 ZC 3, 4

HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION



HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION



STANFORD LINEAR
 ACCELERATOR CENTER
 LOW TEMP. M.T. REP LAB
 DATE JUN 5 1970
 SAMPLE NO. 1182
 MATERIAL
 SUPPLIER
 REP. NO.
 PURPOSE
 VERT. UNITS
 HOR. UNITS
 REMARKS: NOT
 21/B 3000

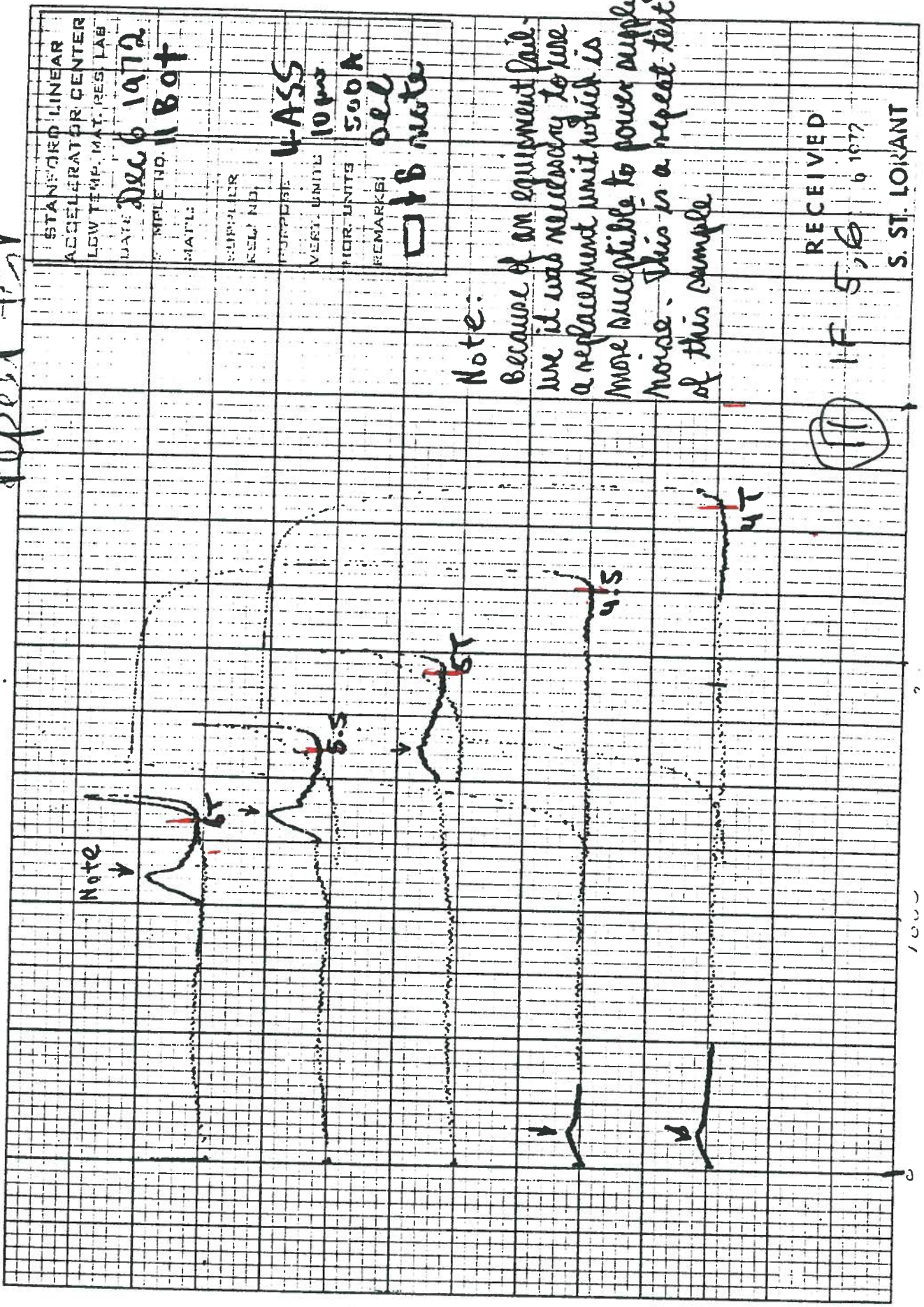
will repeat
 this test

REJECTED
 REJECTS

RECEIVED
 JUN 6 1972
 S. ST LORANT
 5.6
 11
 1 F
 3.5T
 1000

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS DIVISION

Repeat test



STANDARD LINEAR
 ACCELERATOR CENTER
 LOW TEMP. MAT. RES. LAB.
 DATE Dec 6 1972
 SAMPLE NO. 11804
 MATL.
 SUPPLIER
 RES. NO.
 PURPOSE VASS
 VERT. UNITS 10ms
 HOR. UNITS 500A
 REMARKS o1b note

Note:

Because of an equipment fail-
 ure it was necessary to use
 a replacement unit which is
 more susceptible to power supply
 noise. This is a repeat test
 of this sample

RECEIVED

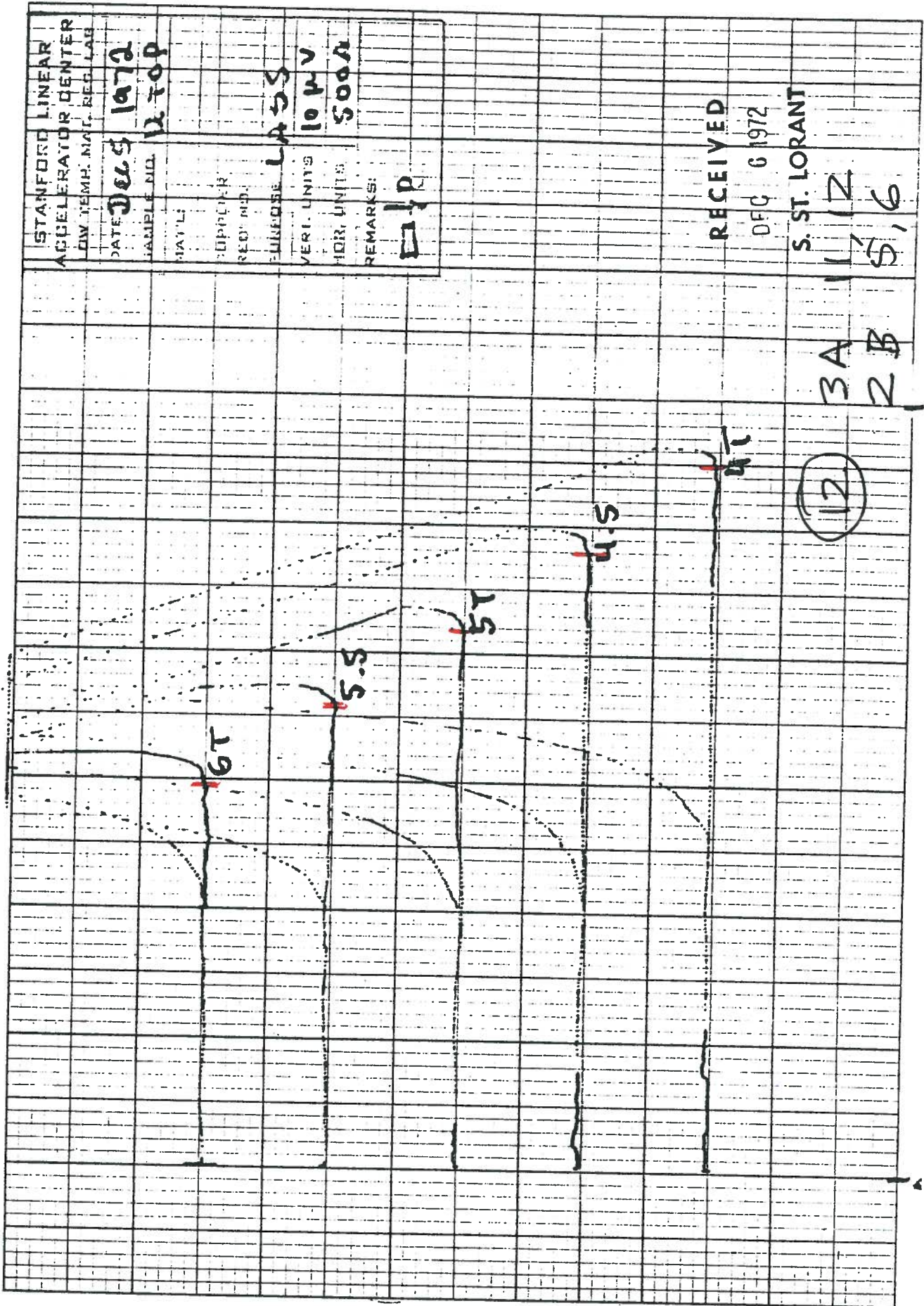
IF 5,6
 6 1972

①

S. ST. LORANT

1000

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAP RECORDING
 10 UNITS/DIVISION



STANFORD LINEAR
 ACCELERATOR CENTER
 DIV. TEMP. NAT. RES. LAB.
 DATE Dec 5 1972
 SAMPLE NO. 1270P
 NAME:
 OPERATOR:
 REC. NO.:
 PURPOSE LASS
 VERT. UNITS 10 μV
 HOR. UNITS 5000 Å
 REMARKS: 127P

RECEIVED

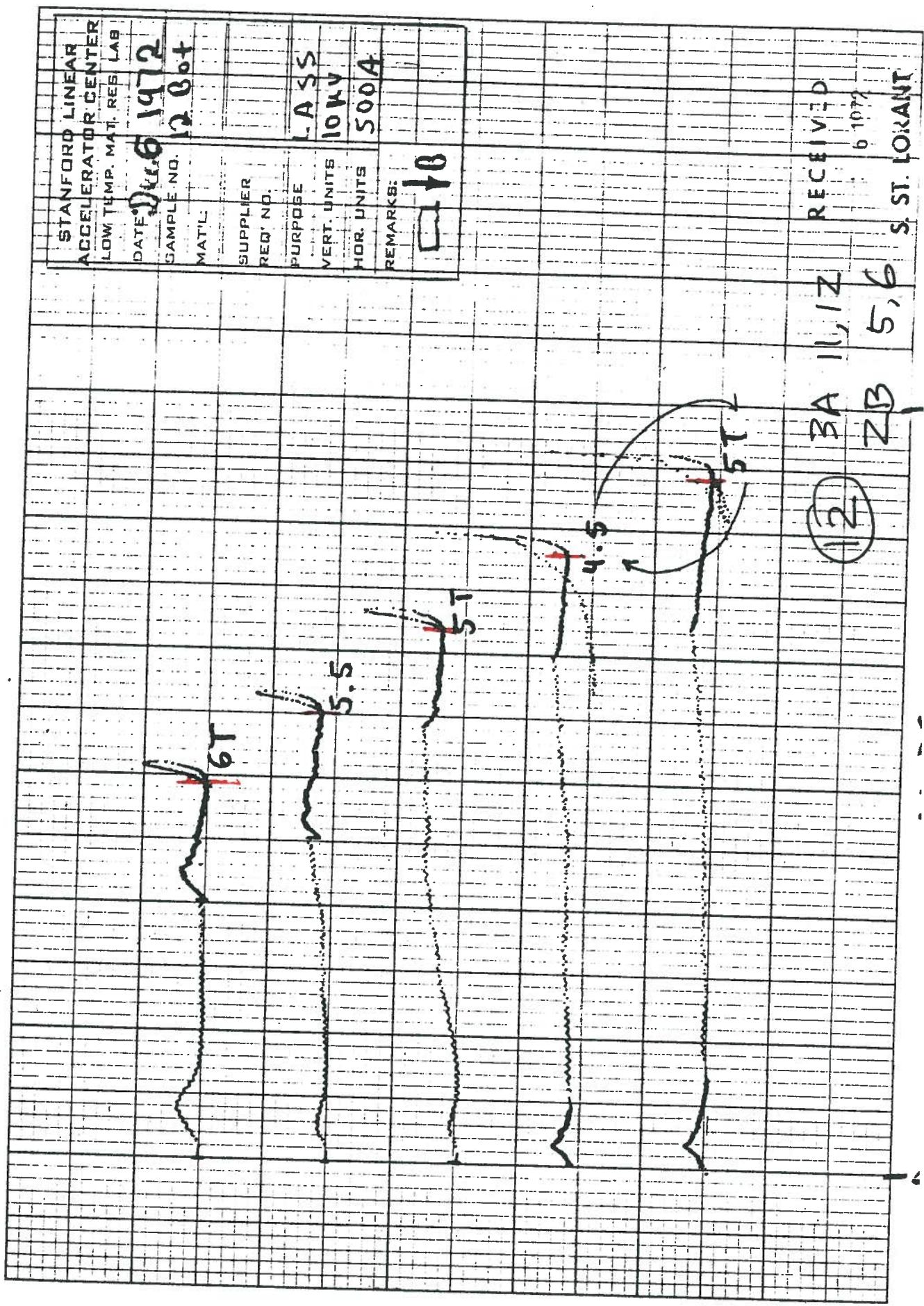
DFC 6 1972

S. ST. LORANT

3A 11, 12
 2B 5, 6

(12)

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAP RECORDING
 10 UNITS/DIVISION



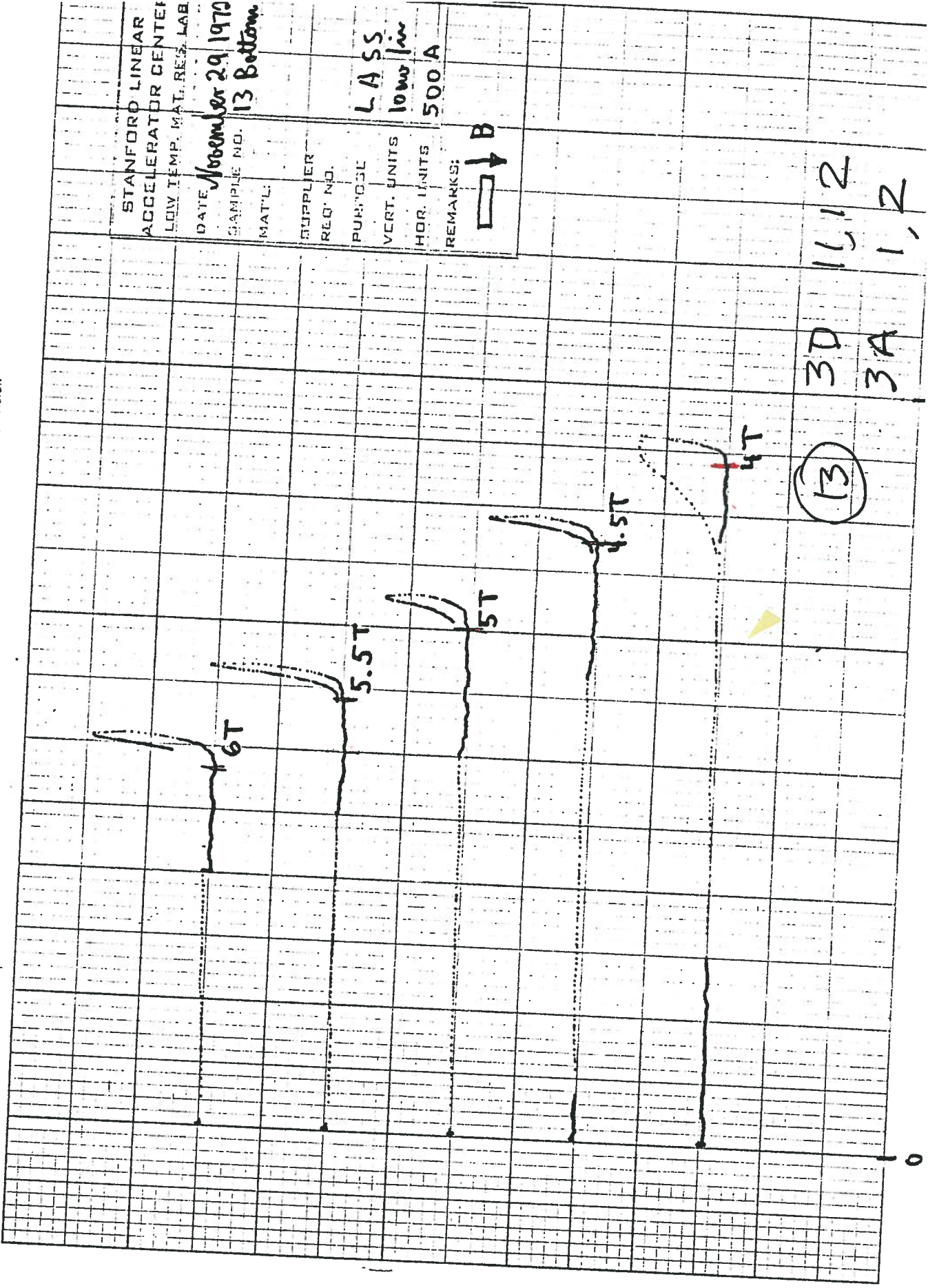
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT'L RES LAB	DATE: Dec 6 1972
MAT'L	SAMPLE NO. 12 Bot
SUPPLIER	
REQ' NO.	
PURPOSE	LASS
VERT. UNITS	10KV
HOR. UNITS	500A
REMARKS:	12

RECEIVED
 6 1972
 S. ST. LOURANT

BA 11, 12
 ZB 5, 6

12

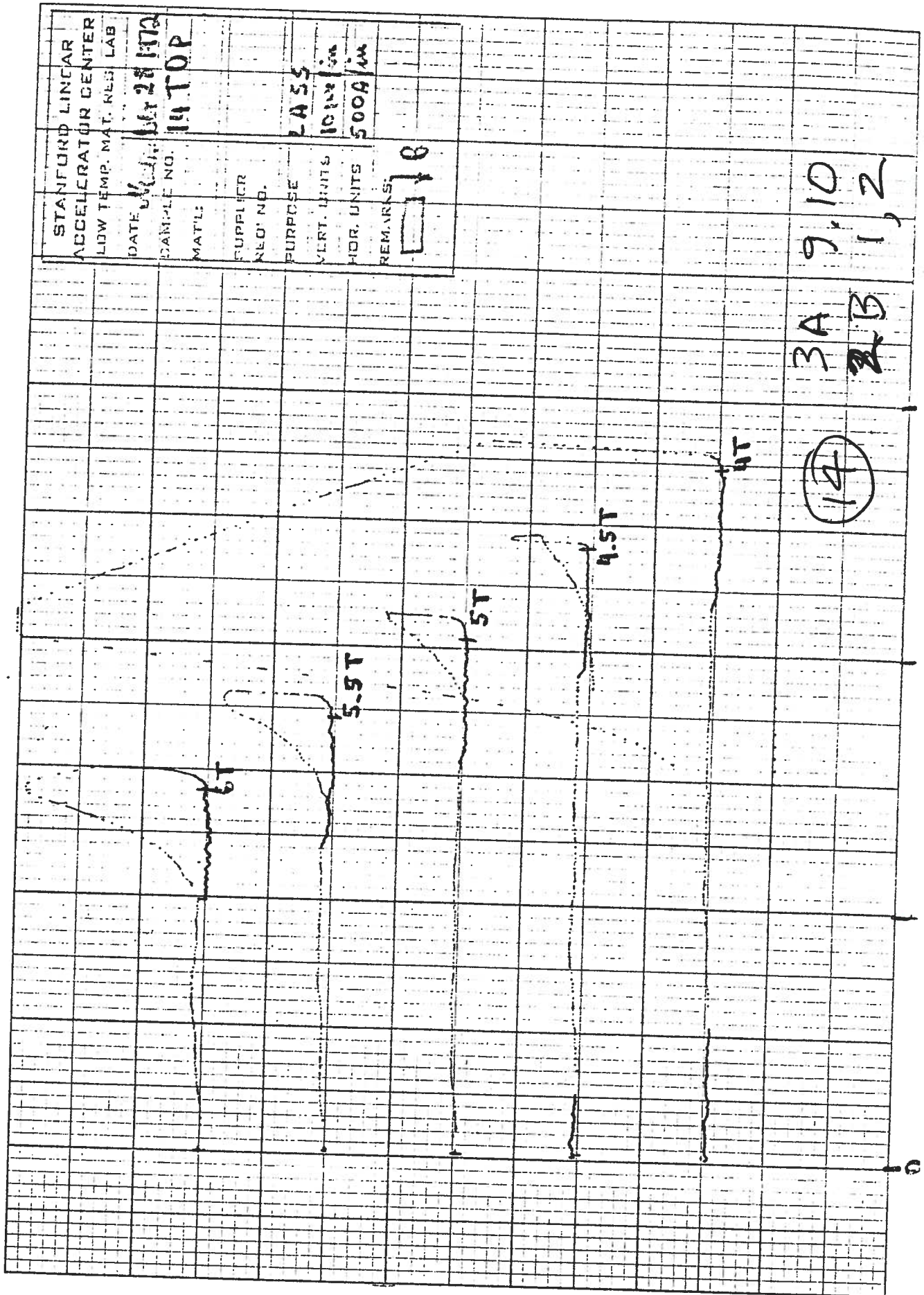
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION



STANFORD LINEAR
 ACCELERATOR CENTER
 LOW TEMP. MAT. RES. LAB.
 DATE November 29 1979
 SAMPLE NO. 13 Bottom
 MAT'L:
 SUPPLIER:
 REQ. NO.:
 PURPOSE: LASS
 VERT. UNITS: 10 mV/div
 HOR. UNITS: 500 A
 REMARKS:
 ↑ B

1612
 3D
 3A
 1,2

HEWLETT-PACKARD/NOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

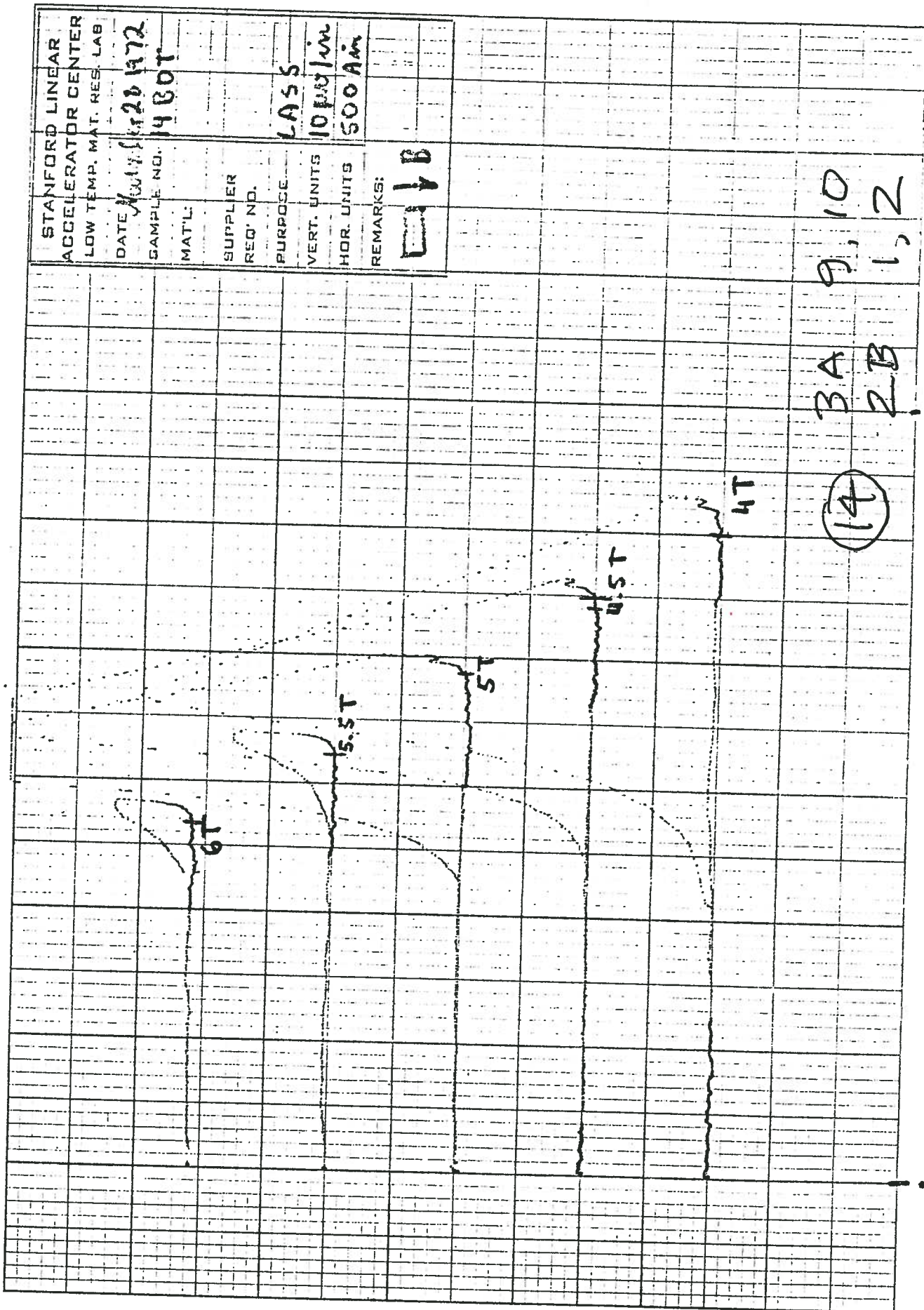


STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: <u>Mar 28 1973</u>
SAMPLE NO.: <u>14 TOP</u>
MAT'L:
SUPPLIER:
REQ. NO.:
PURPOSE: <u>PASS</u>
VERT. UNITS: <u>1000/g</u>
HOR. UNITS: <u>500A/m</u>
REMARKS: <u>□ 16</u>

3A 9.10
~~3B~~ 1, 2

(17)

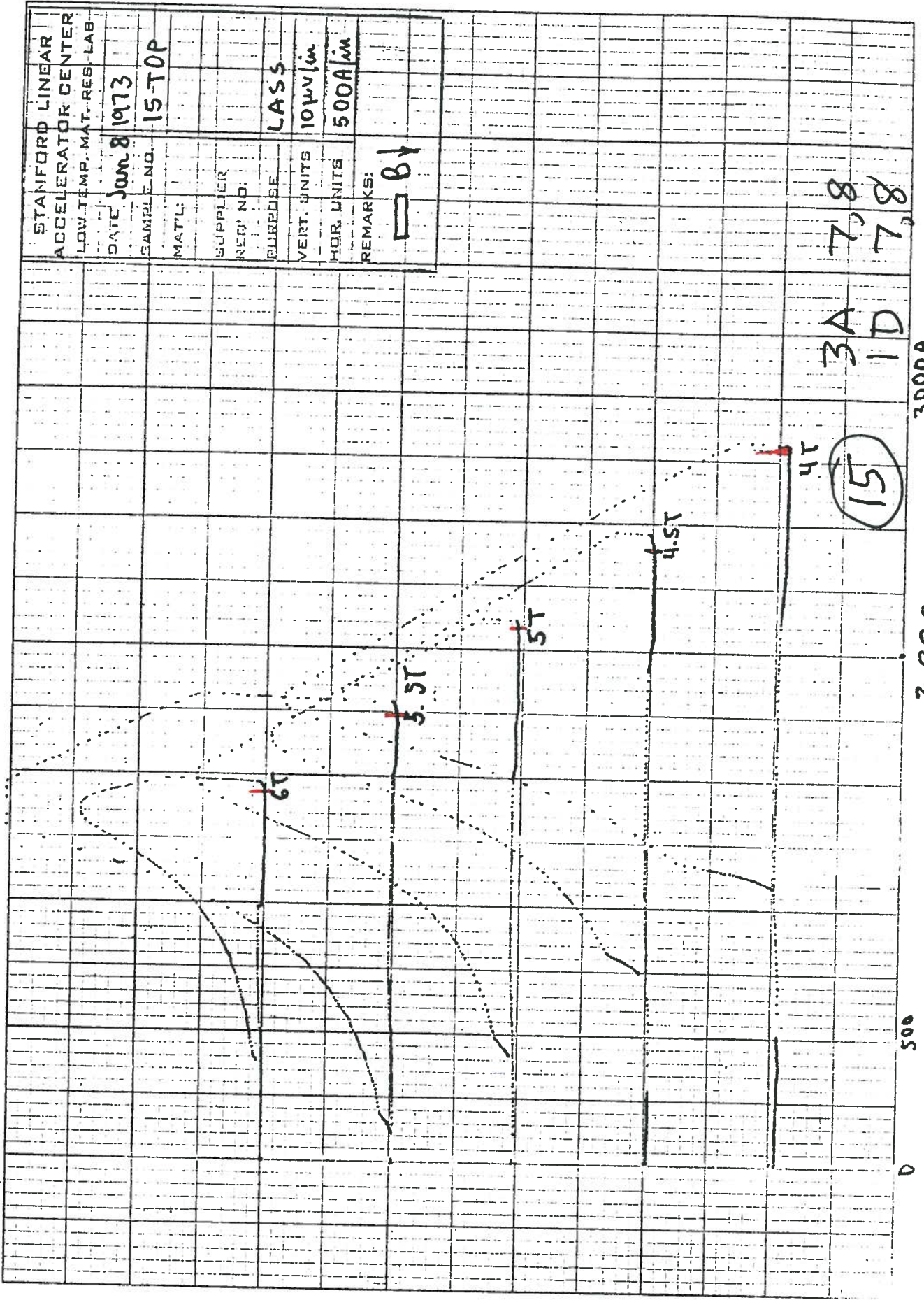
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 TO UNITS/DIVISION



STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB	DATE <i>Nov 18 1972</i>	SAMPLE NO. <i>14 BOT</i>
MAT'L	SUPPLIER	REQ. NO.
PURPOSE <i>LASS</i>	VERT. UNITS <i>10 μV/in</i>	HOR. UNITS <i>500 Åm</i>
REMARKS: <i>14 B</i>		

3A 9, 10
2B 1, 2

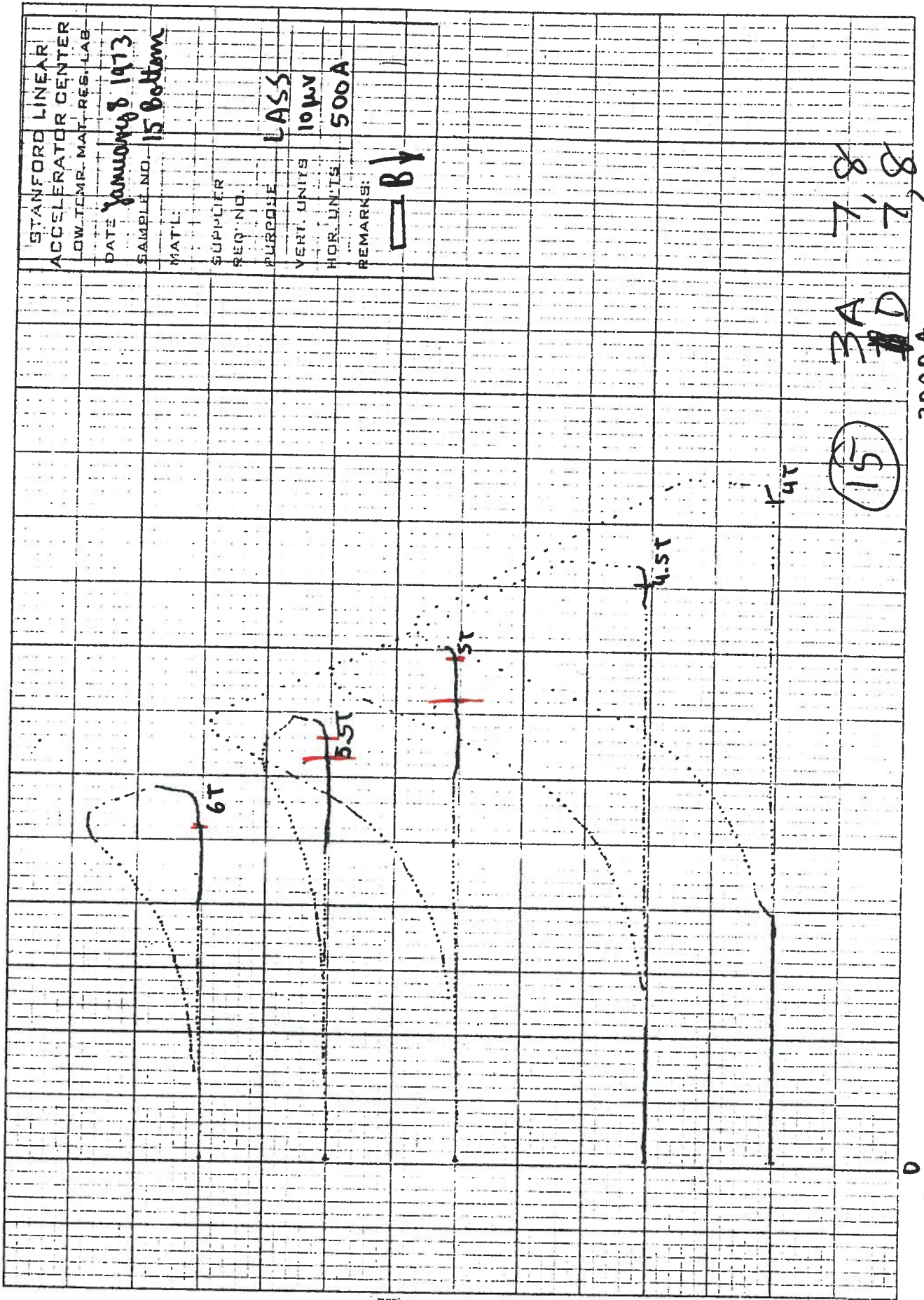
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

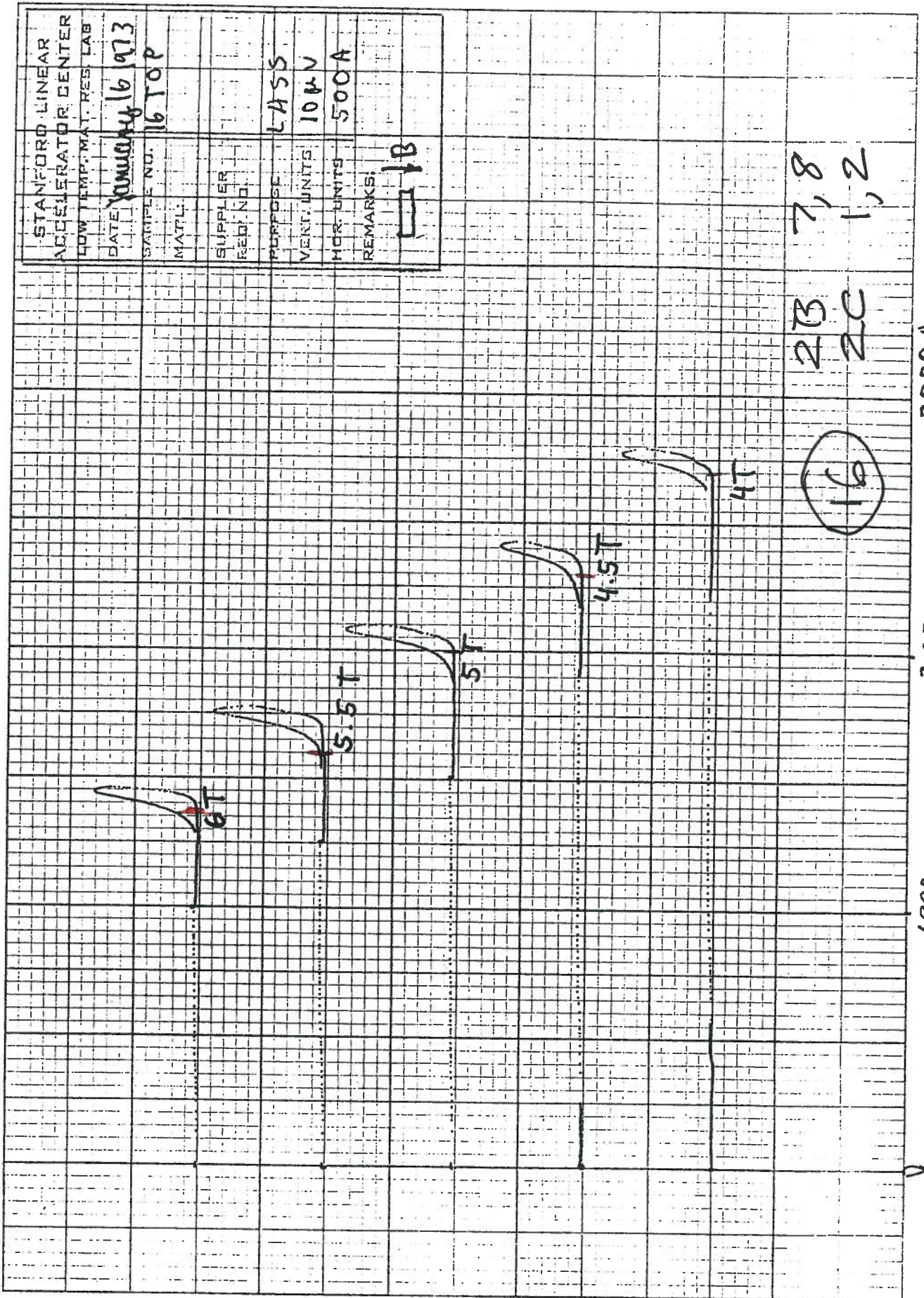


STANFORD LINEAR ACCELERATOR CENTER	
LOW TEMP. MAT. RES. LAB.	
DATE	June 8 1973
SAMPLE NO.	15-TOP
MAT'L	
SUPPLIER	
REQ' NO.	
PURPOSE	LASS
VERT. UNITS	10 μ V/cm
HOR. UNITS	500A/cm
REMARKS:	\square 81

3A 7,8
 1D 7,8
 (15) 3000

HEWLETT-PACKARD/MOSELEY DIVISION
D270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION



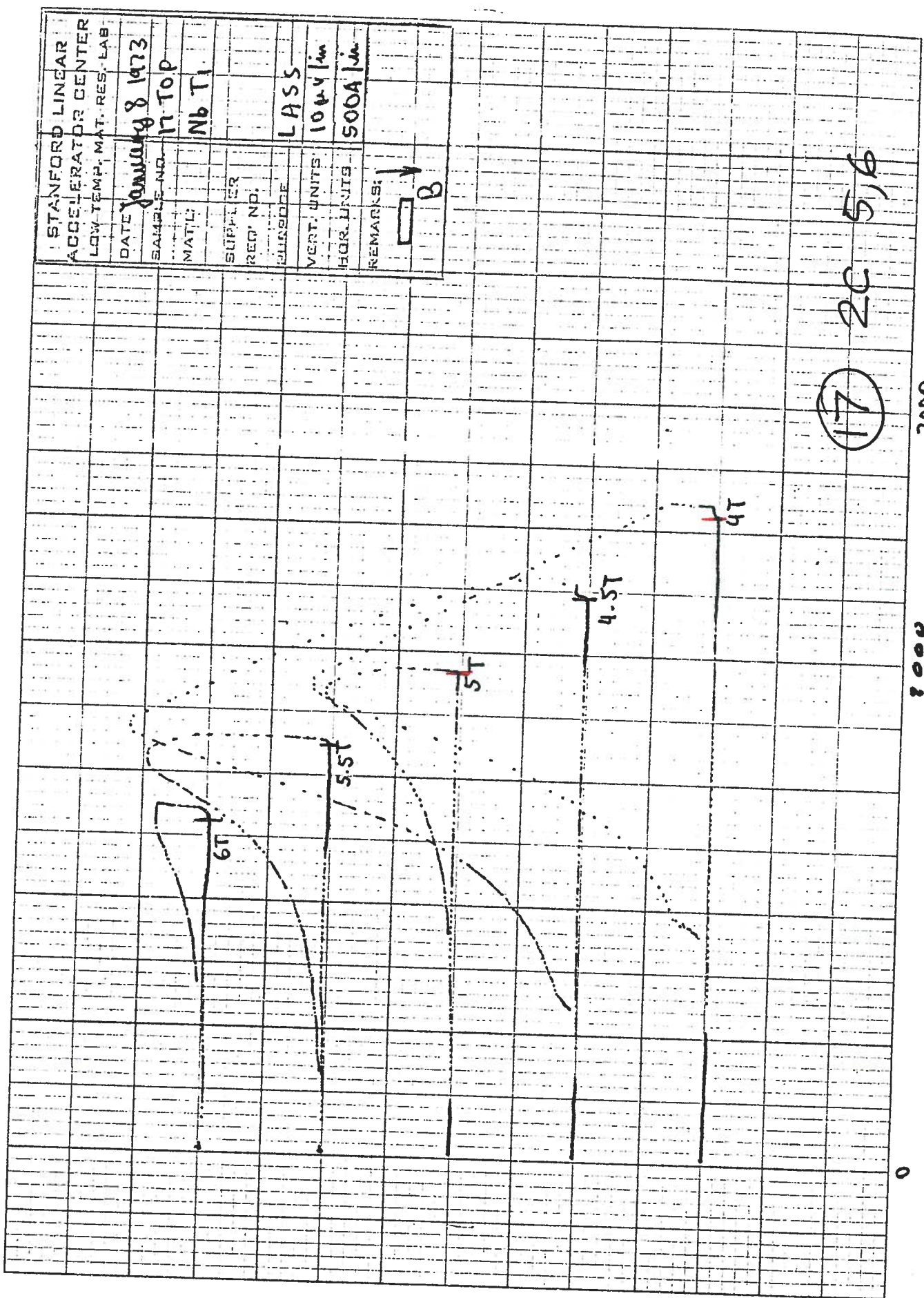


3000A

1000 2000

0

HEWLETT-PACKARD MODEL 1000
 9870 101
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/CM. (10)

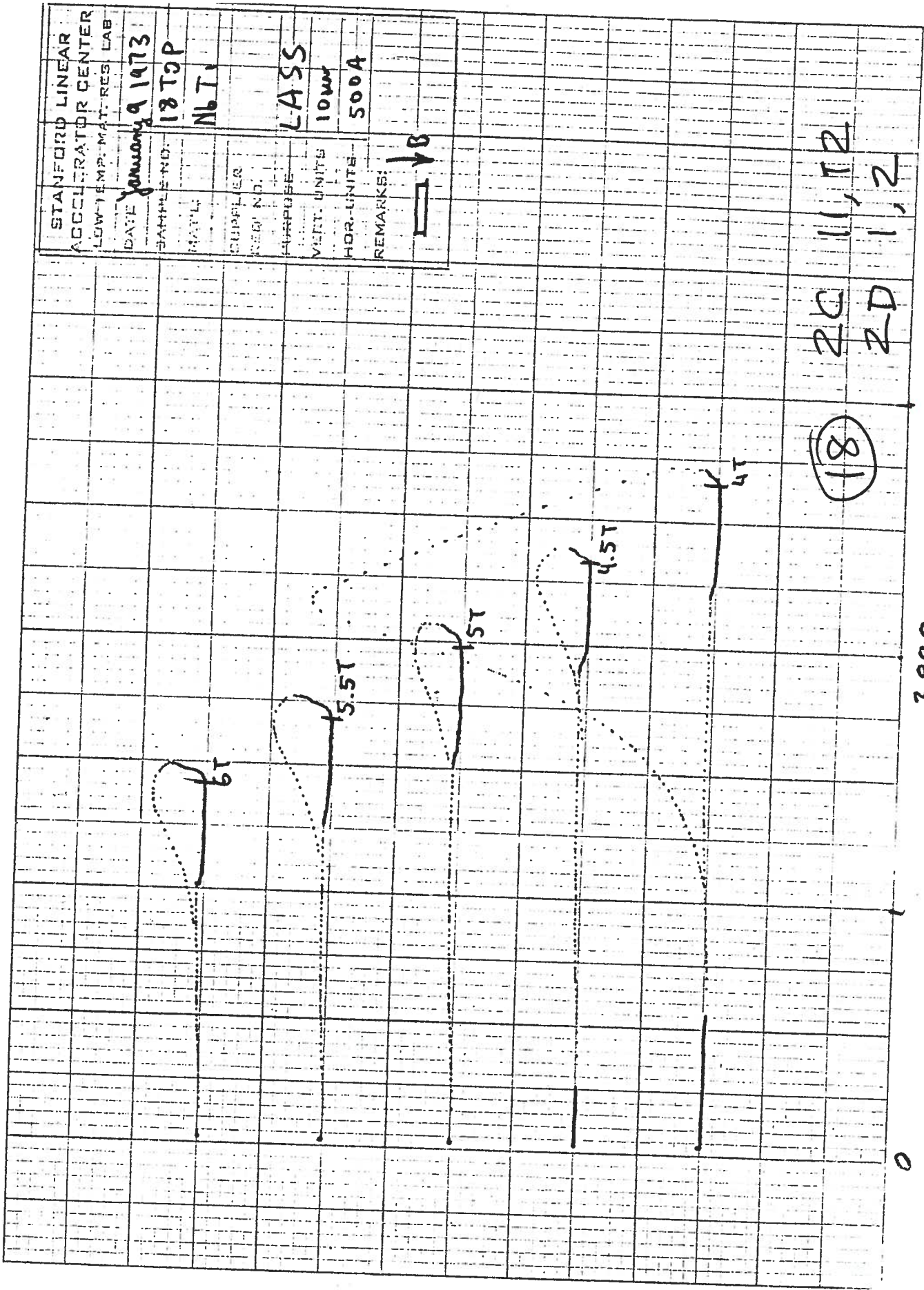


(17) 2C 5,6

AMDEDC 1000 3000

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION

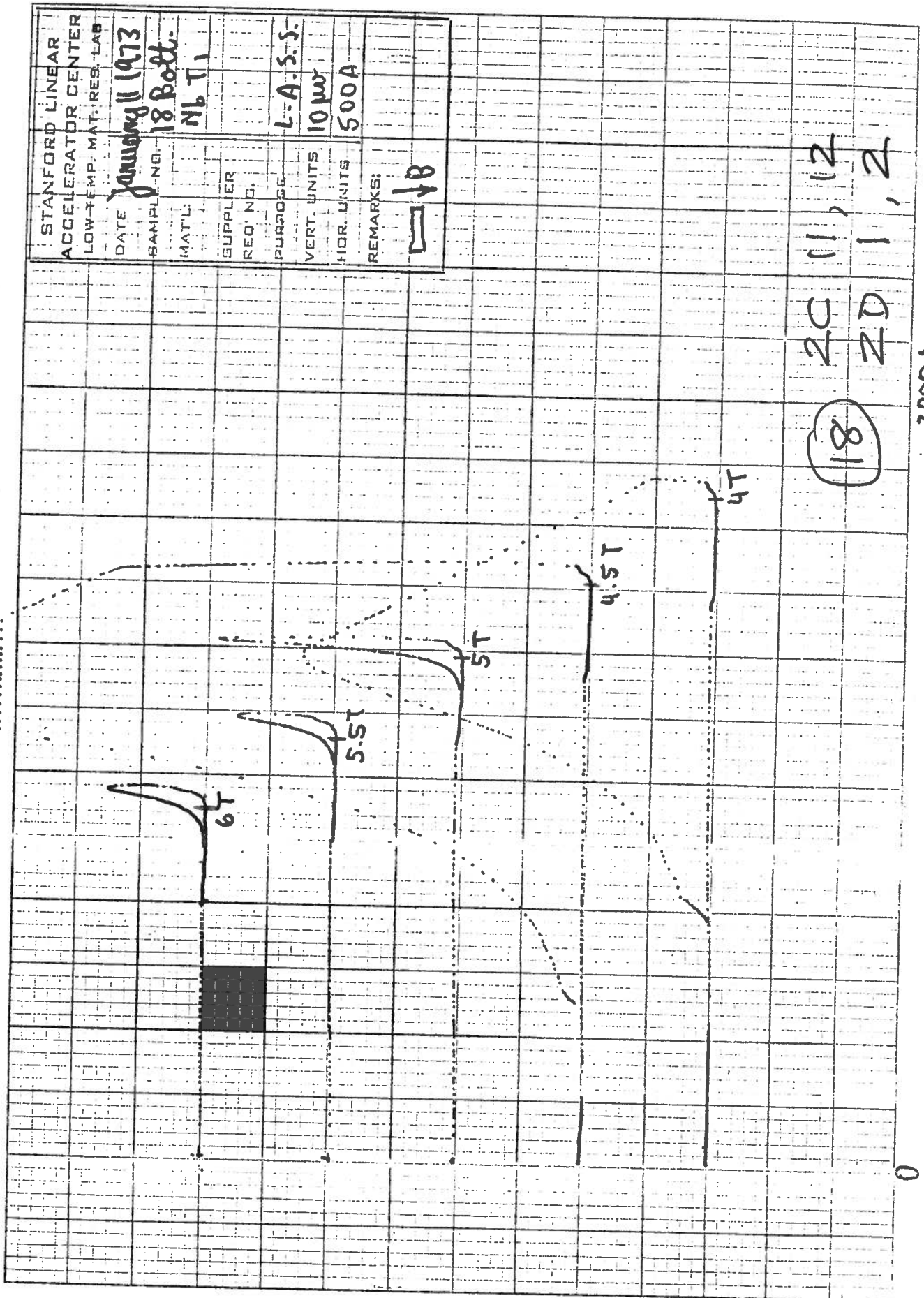
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB	DATE: <u>January 9 1973</u>
SAMPLE NO. <u>18TOP</u>	
MATL. <u>NbTi</u>	
SUPPLIER	
SER. NO.	
PURPOSE <u>LASS</u>	
VERT. UNITS <u>10mm</u>	
HOR. UNITS <u>500A</u>	
REMARKS:	



20 11, 12
 2D 1, 2

18

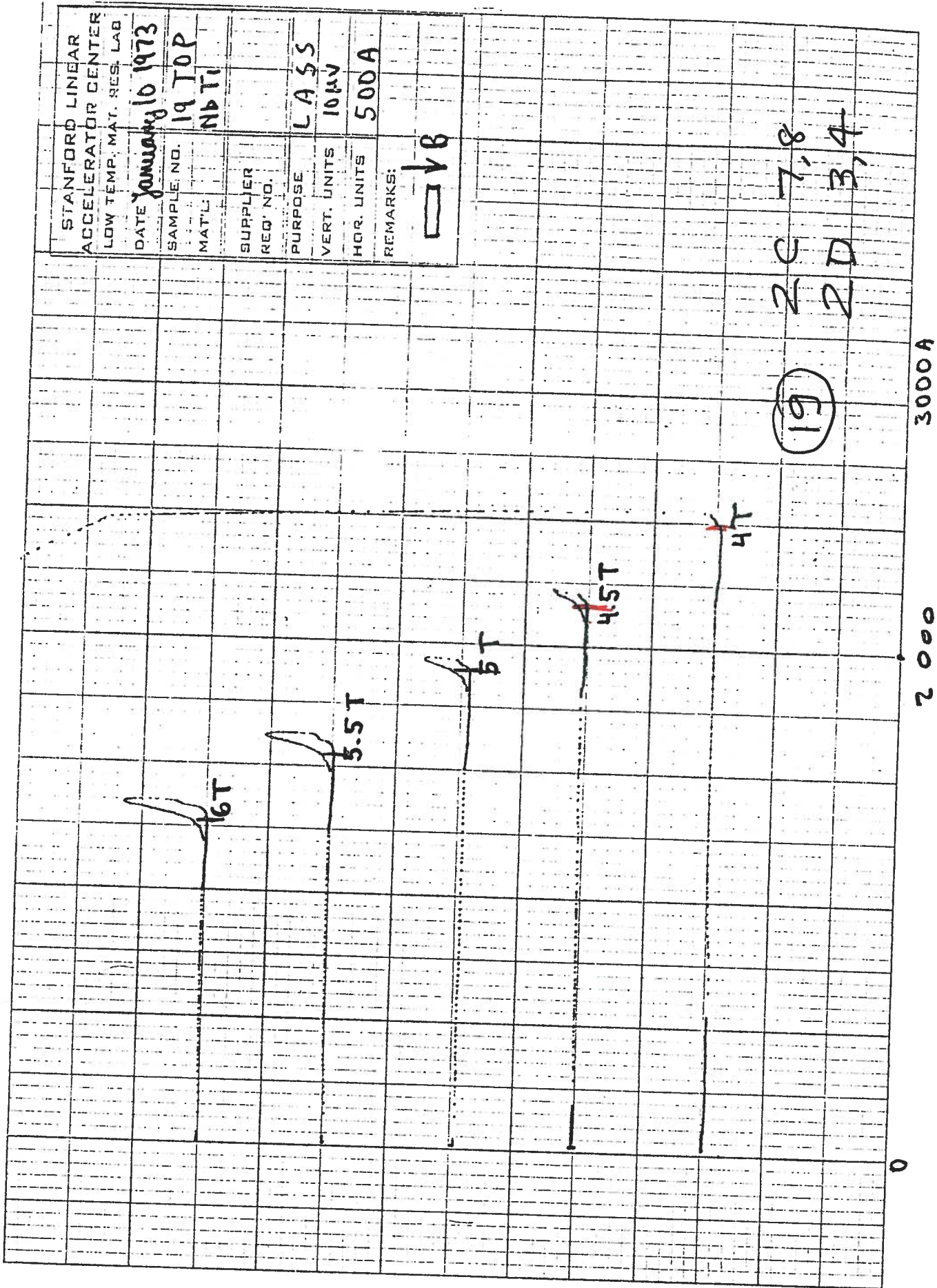
2000



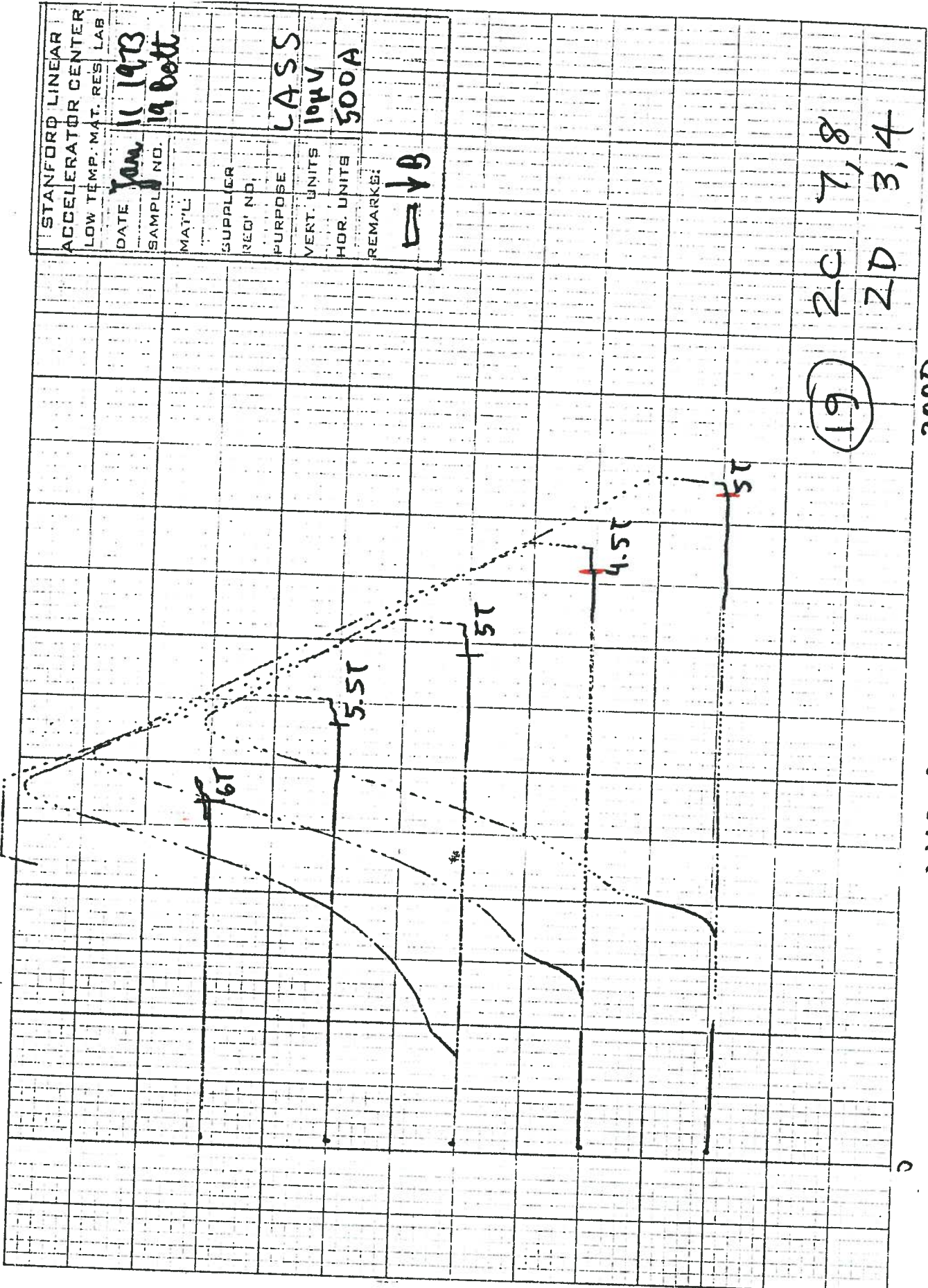
STANFORD LINEAR ACCELERATOR CENTER LOW-TEMP. MAT. RES. LAB
DATE: January 11 1973
SAMPLE NO: 18 Bott.
MATL: Nb T1
SUPPLIER
REQ. NO.
PURPOSE: L-A-S-S.
VERT. UNITS: 10μV
HOR. UNITS: 500A
REMARKS: ↓ B

18
 2C 11, 12
 2D 1, 2

NEW PAPER FOR X-RAY DIVISION
 ST. JOHN'S
 USE FOR AUTOGRAPH RECORDING
 10 UNITS/DIVISION



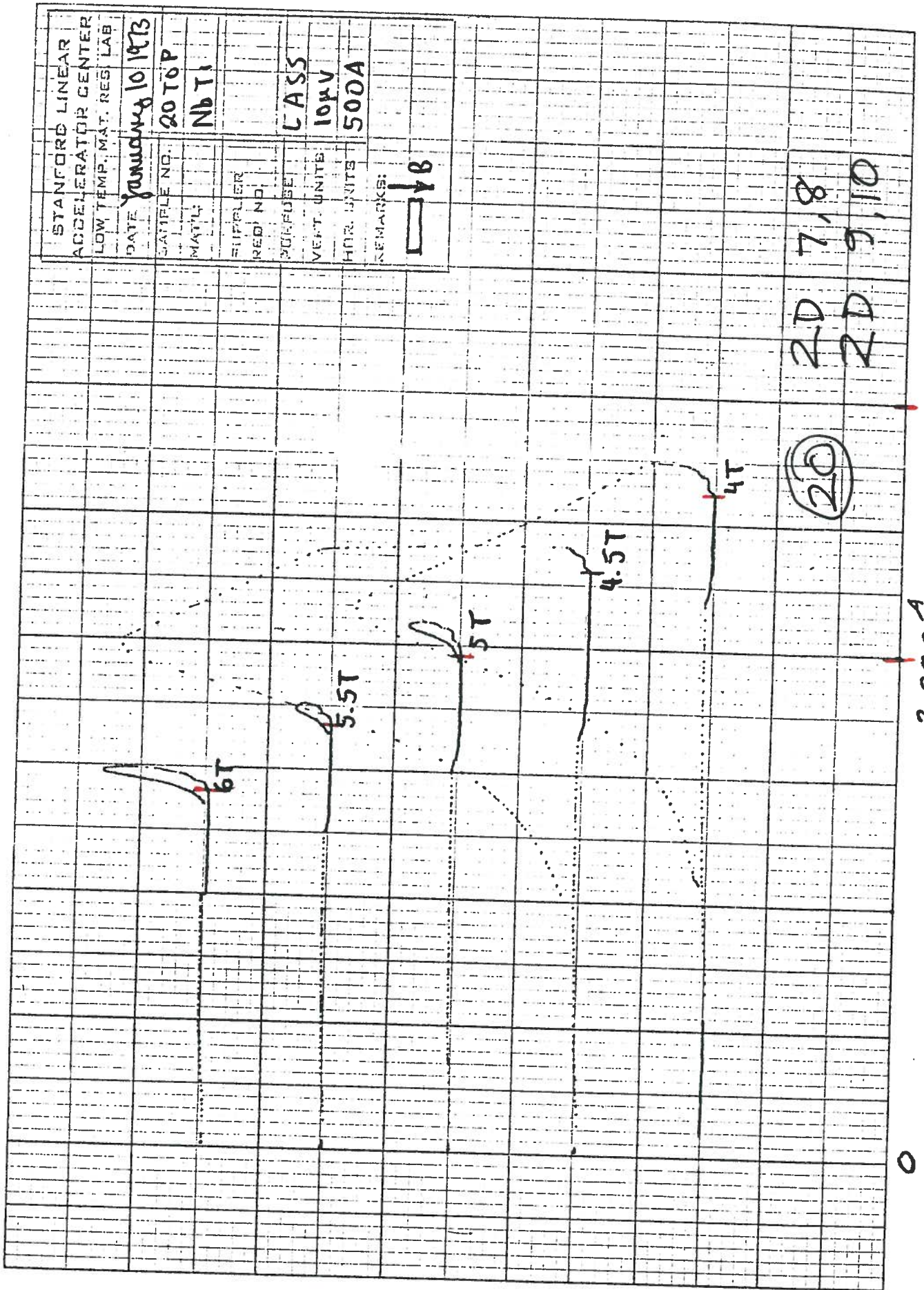
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10" UNITS/DIVISION



STANFORD LINEAR ACCELERATOR CENTER	
DATE	LOW TEMP. MAT. RES. LAB
JAN 11 1973	
SAMPL. NO.	
MAT'L	
SUPPLIER	
REQ. NO.	
PURPOSE	LASS
VERT. UNITS	104V
HOR. UNITS	500A
REMARKS:	⊞ ↓ B

(19) 20 7, 8
 2D 3, 4

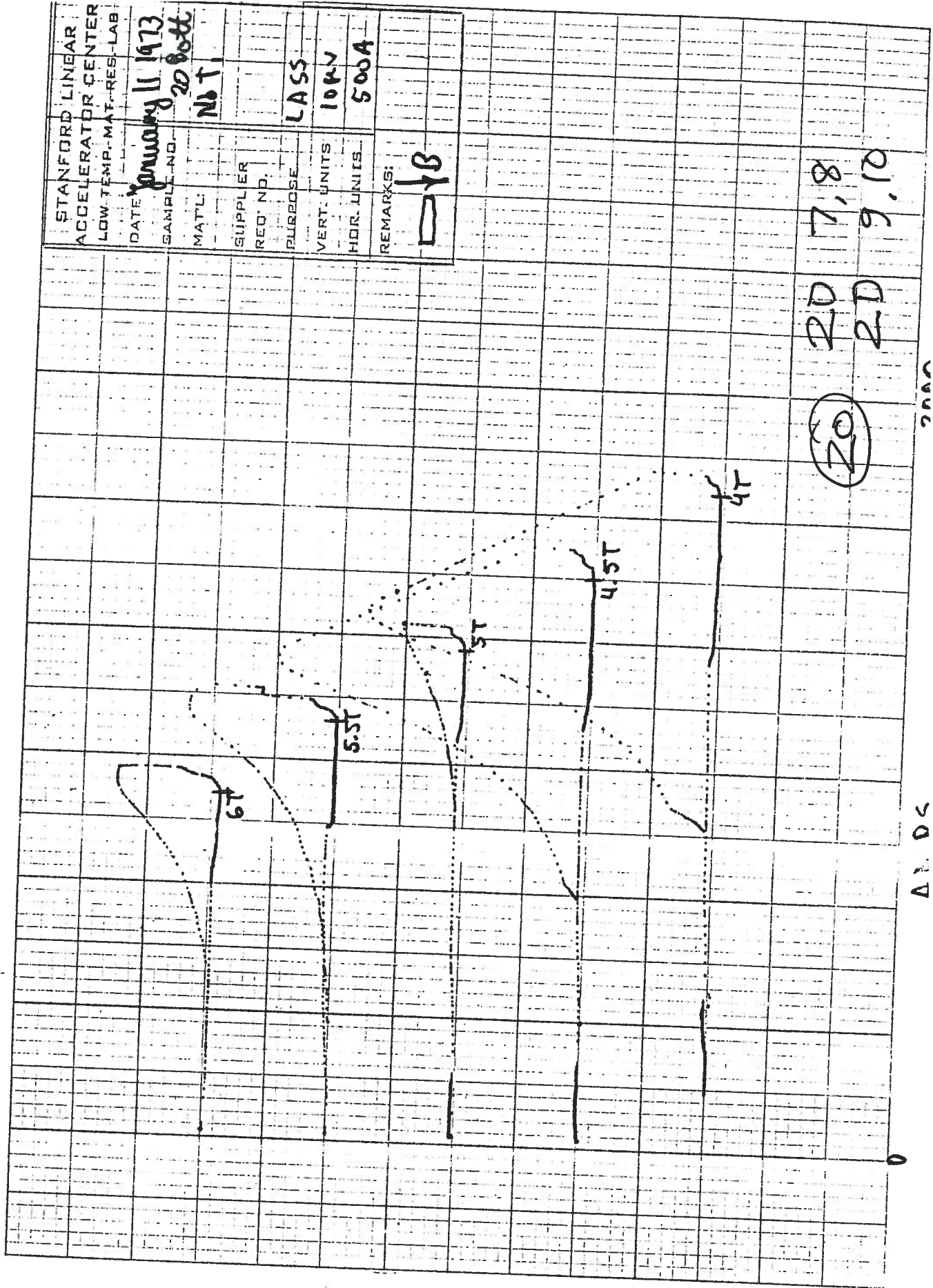
2007



STANFORD LINEAR	SAMPLE NO.	20 TOP
ACCELERATOR CENTER	MAT'L	NbTi
LOW TEMP. MAT. RES. LAB	SUPPLIER	
DATE January 10 1973	REF. NO.	
	PURPOSE	CASS
	VEPT. UNITS	10KV
	HOR. UNITS	500A
REMARKS:		

18

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-100V6
 FOR USE ON AUTOCRAF RECORDERS
 10 UNITS/DIVISION



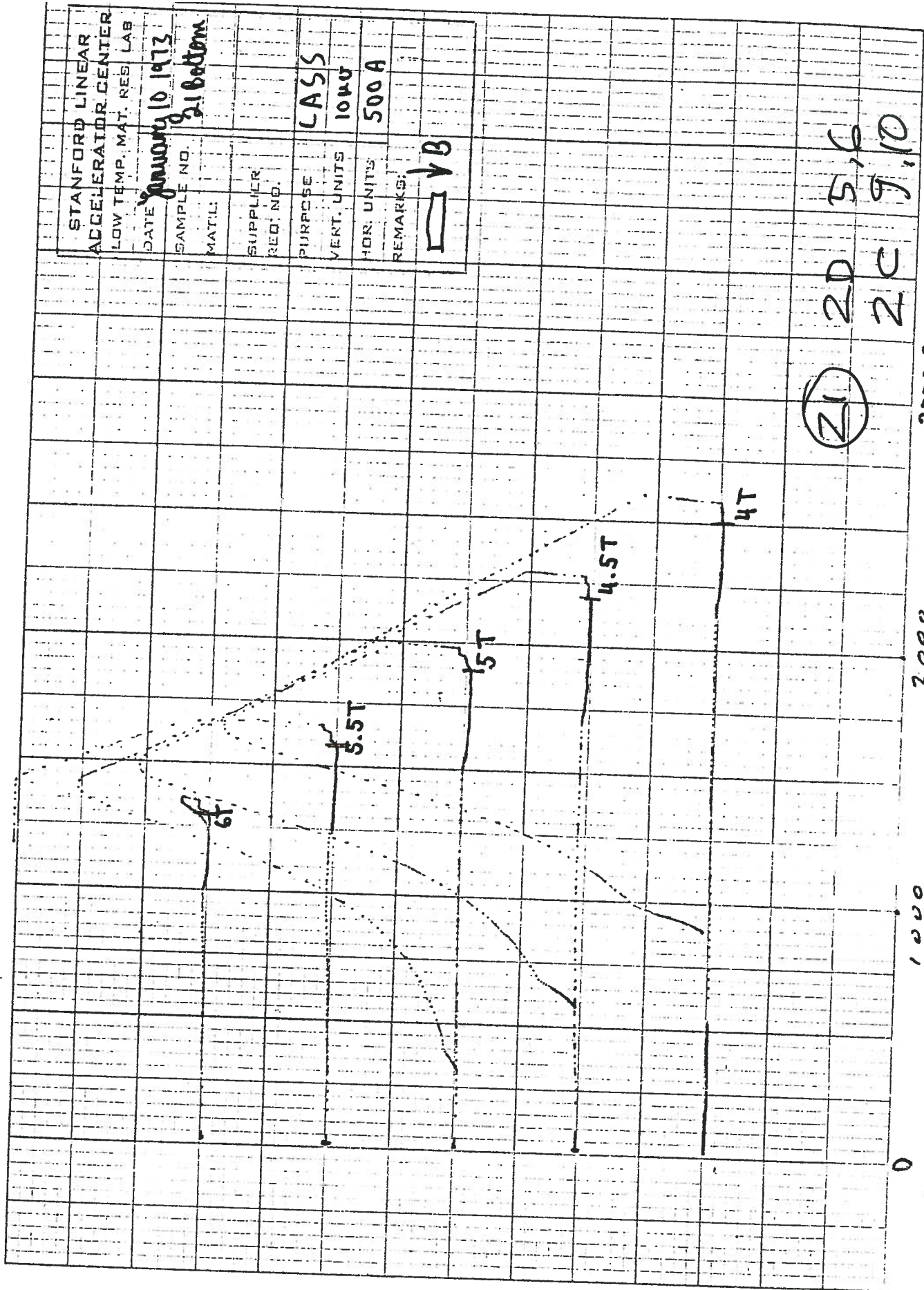
STANFORD LINEAR	DATE	January 11 1973
ACCELERATOR CENTER	SAMPLE NO.	20 Bott
LOW TEMP. MAT. RES. LAB.	MATL.	Ni T.
	SUPPLIER	
	REQ. NO.	
	PURPOSE	LASS
	VERT. UNITS	10KV
	HOR. UNITS	500A
	REMARKS:	□↑B

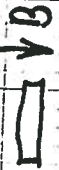
20
 2D 7.8
 2D 9.10

Δ 1.05

2000

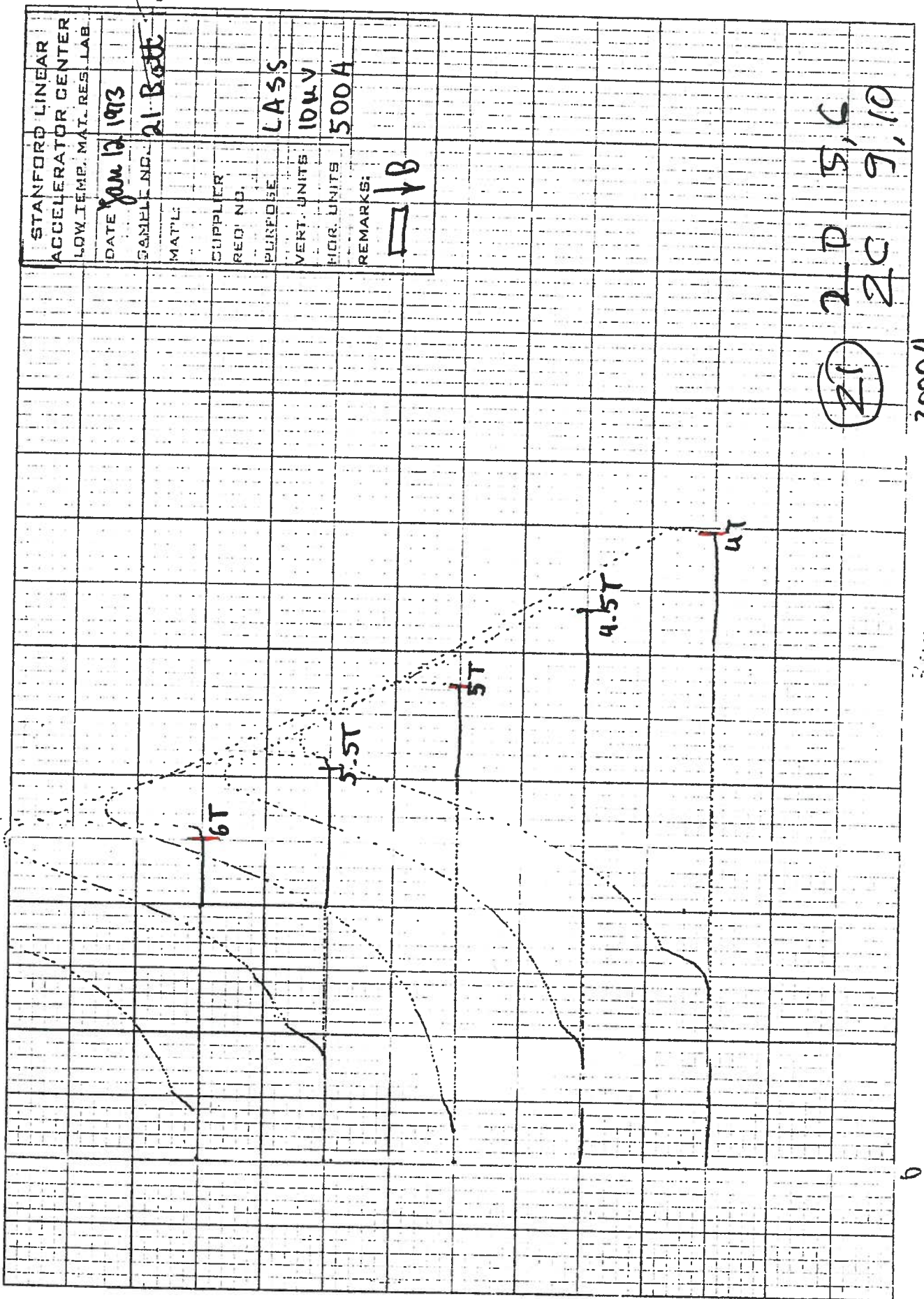
HEWLETT PACKARD/MOSELEY DIVISION
 3270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION



STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: January 10 1973
SAMPLE NO. 21 Bottom
MATL:
SUPPLIER REQ. NO.:
PURPOSE: CASS
VERT. UNITS: 1000
HOR. UNITS: 500 A
REMARKS: 

(21) 2D 5,6
 2C 9,10

3000 A




STANFORD LINEAR ACCELERATOR CENTER	
DATE	Jan 12 1973
SAMPLE NO.	21-B-100
MAT'L	
SUPPLIER	
RED. NO.	
PURPOSE	LASS
VERT. UNITS	10uV
HOR. UNITS	500A
REMARKS:	⊞ ↓ B

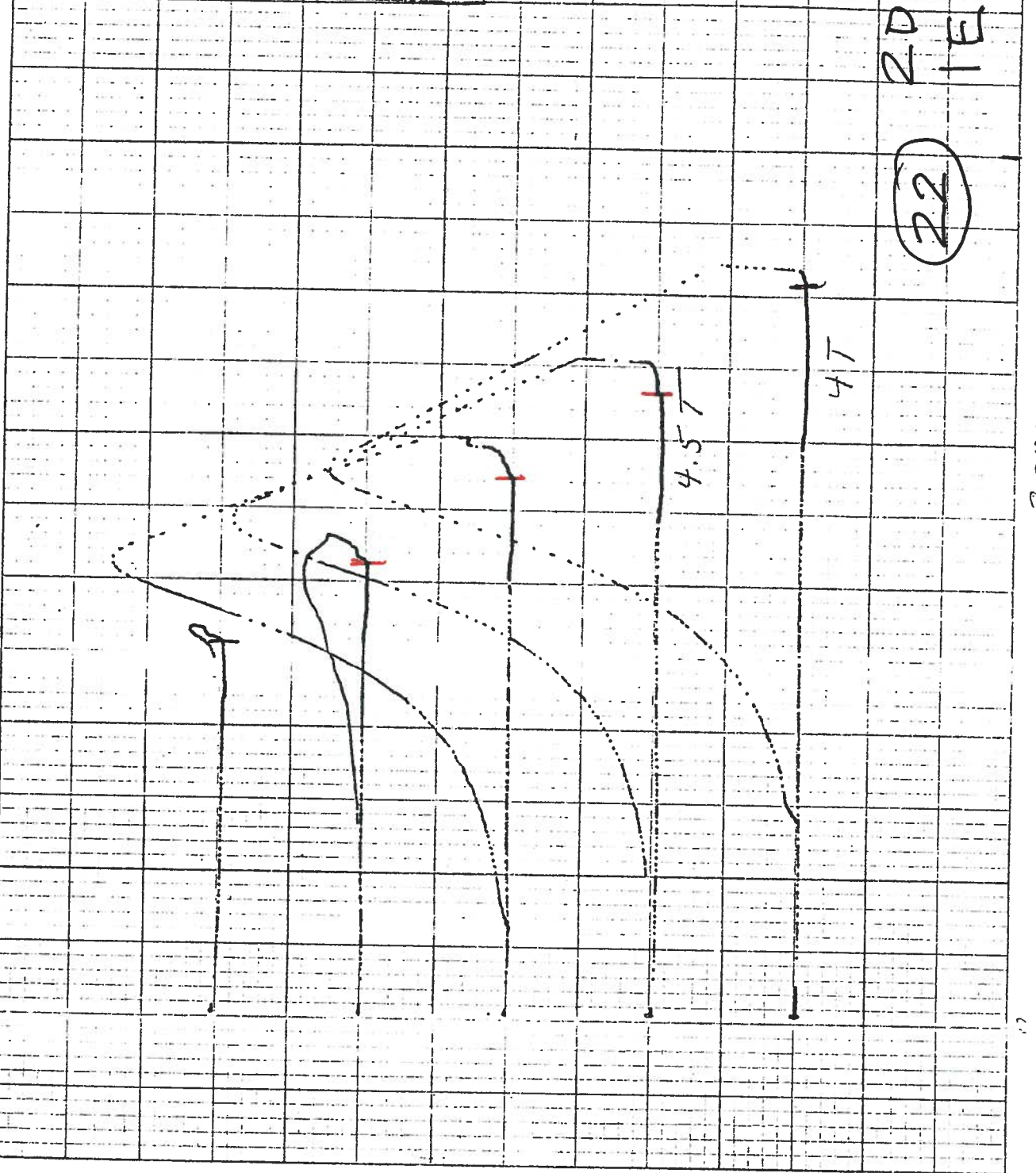
(21) 2D 5,6
 2C 9,10

3000A

6

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-100H
 FOR USE ON AUTOGRAF RECORDERS
 IN UNITS, DIVISION

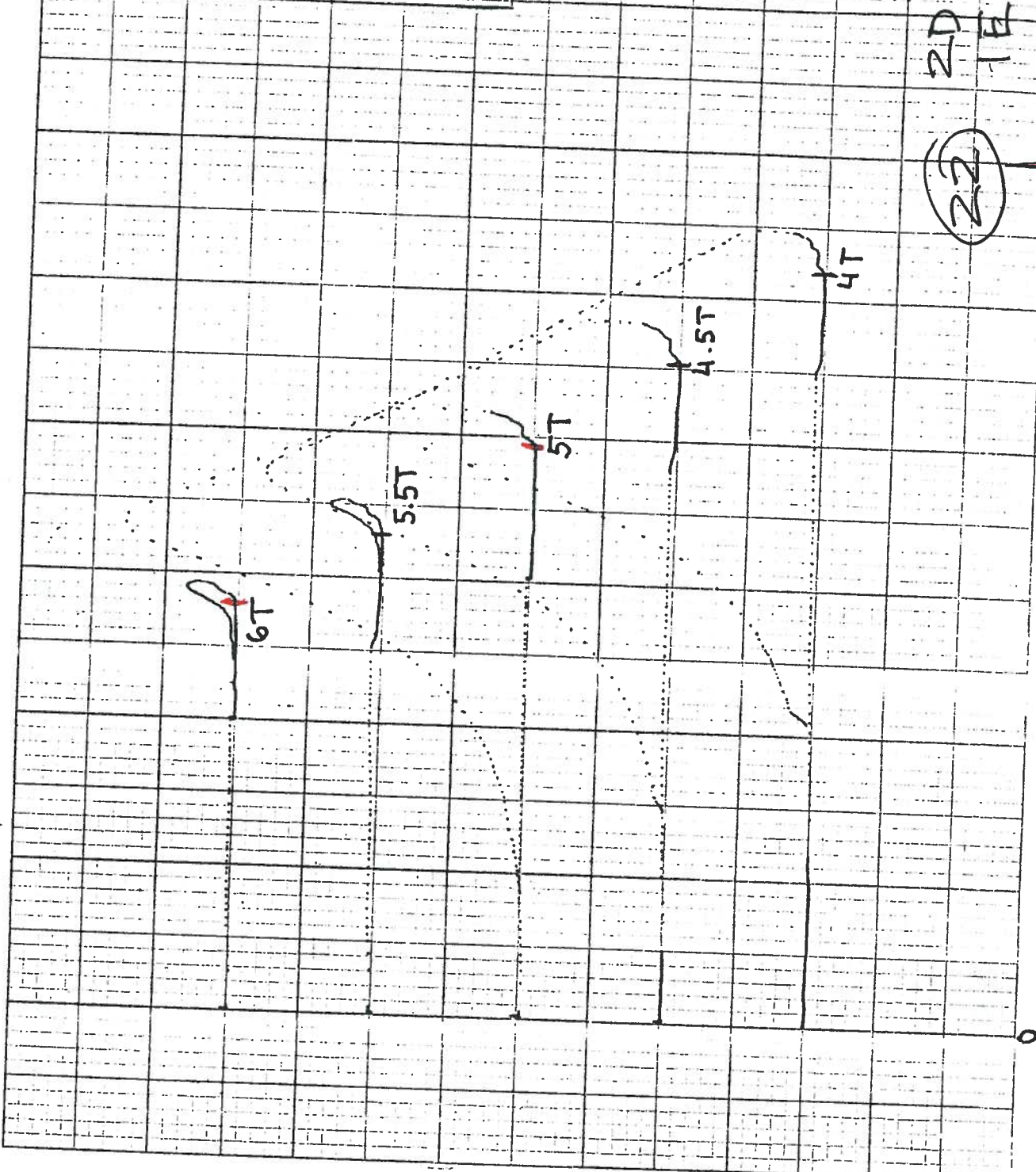
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	DATE	SAMPLE NO.	MAT'L	SUPPLIER REQ. NO.	PURPOSE	VERT. UNITS	HOR. UNITS	REMARKS:
	January 11 1973	22. Bette	NbTi		LASS	10 μ s	500A	



7000

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION

STANFORD LINEAR ACCELERATOR CENTER	
LOW TEMP. MAT. RES. LAB	
DATE	January 12 1973
SAMPLE NO.	22 Bott
MAT'L.	
SUPPLIER	
REQ. NO.	
PURPOSE	LASS
VERT. UNITS	10 μV
HOR. UNITS	500 Å
REMARKS:	

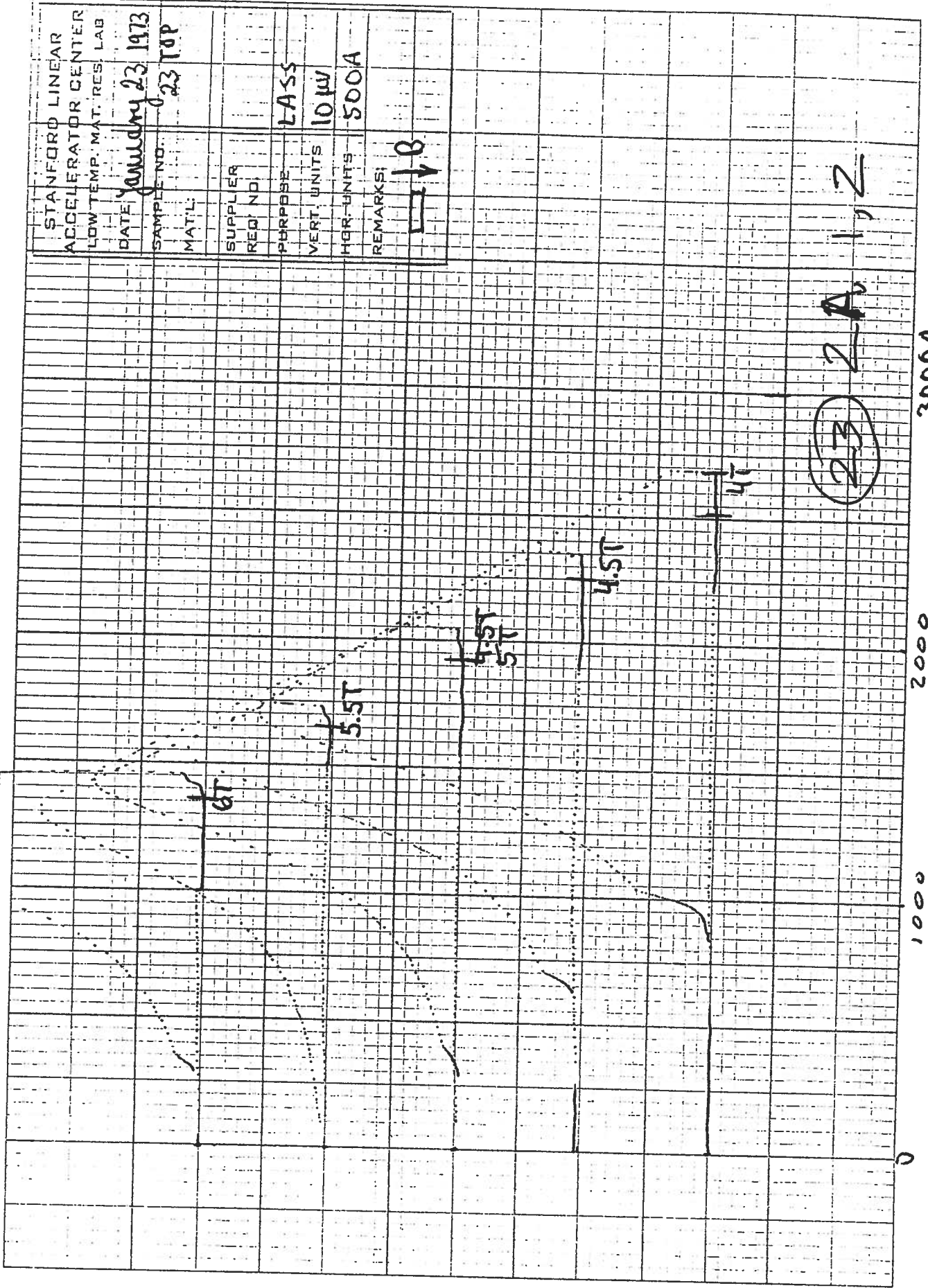


22
 2D 11, 12
 1E 3, 4

3000 Å

2000

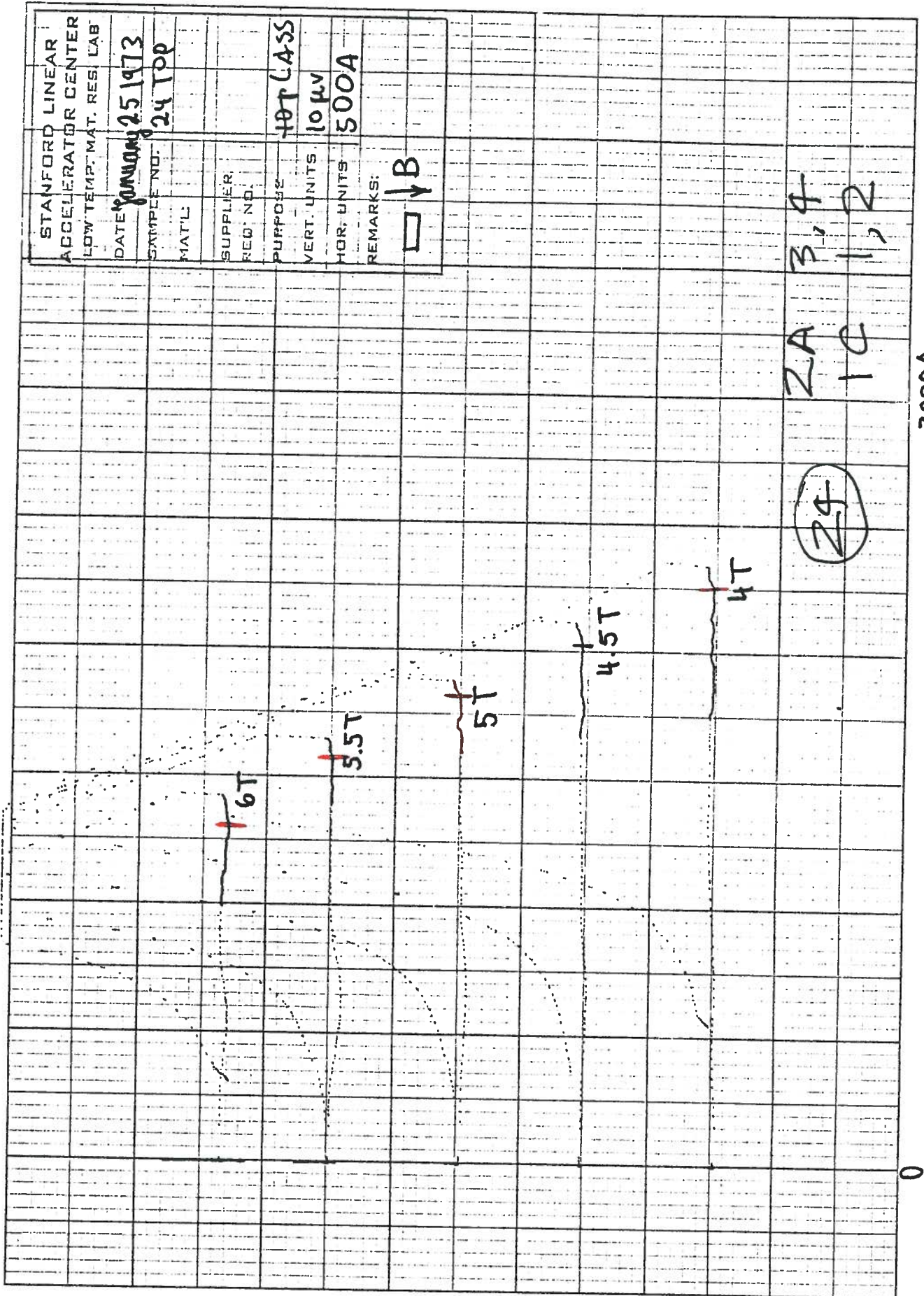
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-100G
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION

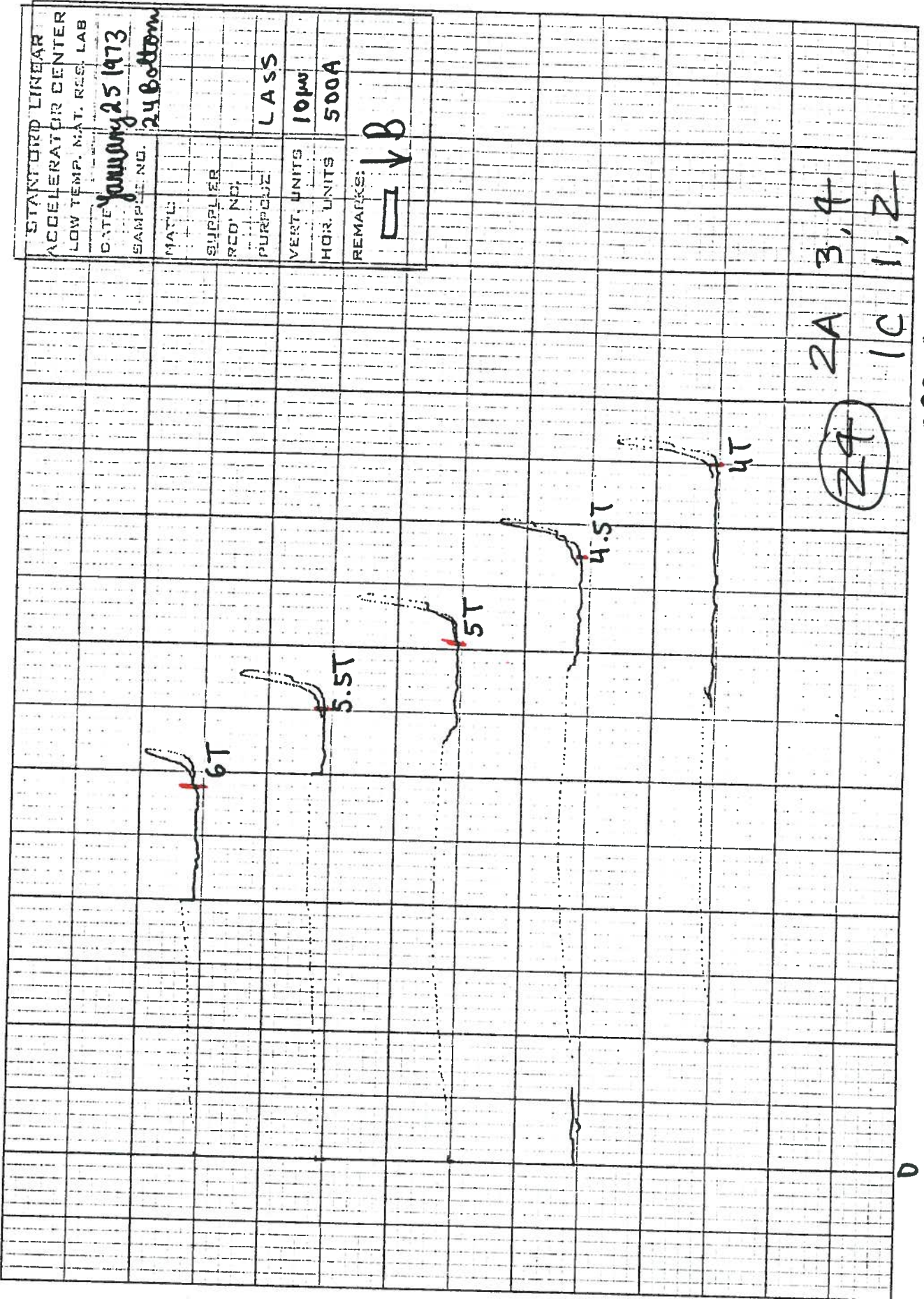


STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: January 23 1973
SAMPLE NO.: 23 TOP
MAT'L:
SUPPLIER REQ. NO.:
PURPOSE: LASS
VERT. UNITS: 10 μV
HOR. UNITS: 500A
REMARKS: ↑ ↓

23 2A 1, 2

1000 2000 3000A



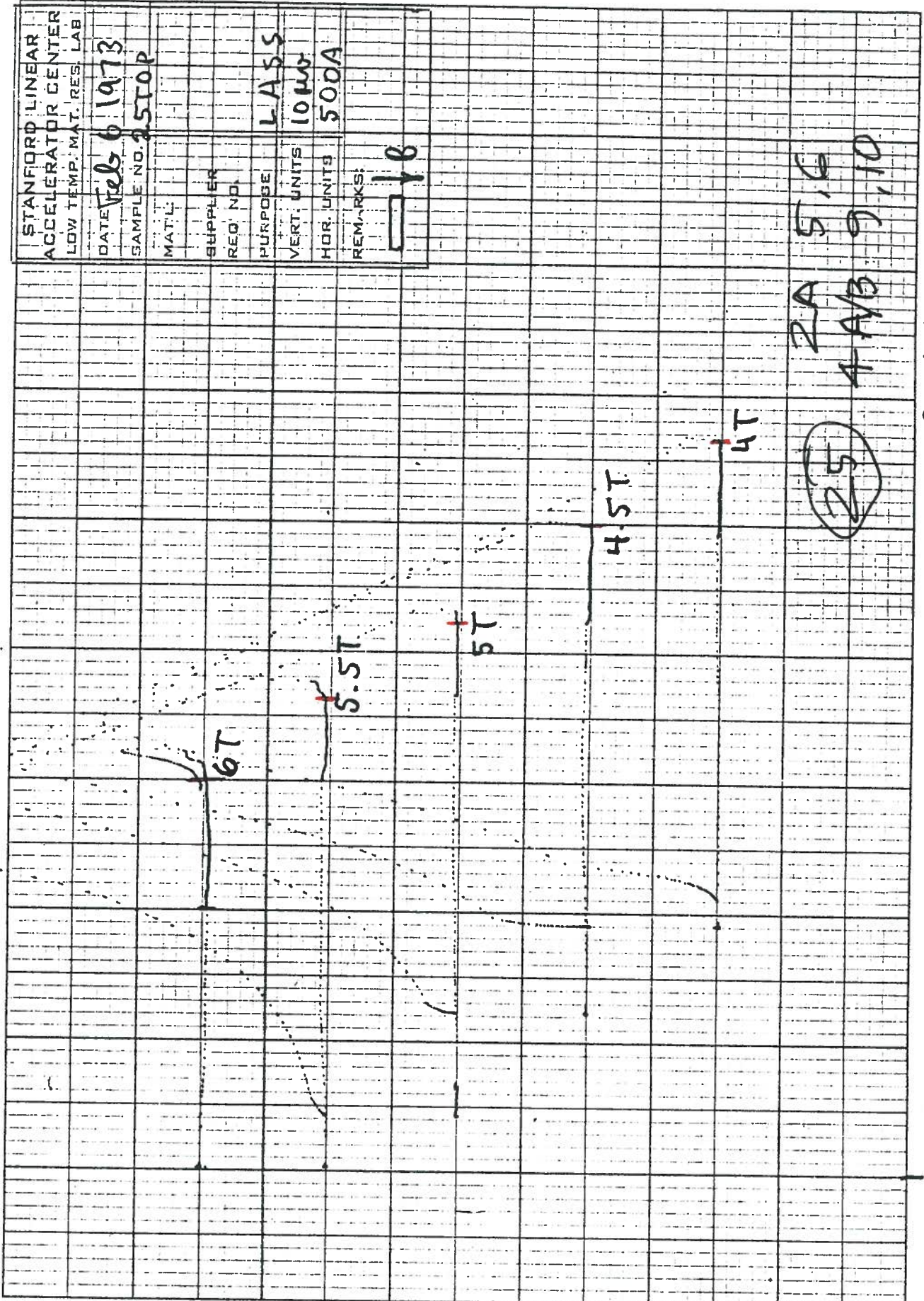


STANFORD LINEAR	
ACCELERATOR CENTER	
LOW TEMP. NAT. RES. LAB	
DATE	January 25 1973
SAMPLE NO.	24 Bottom
MAT'L	
SUPPLIER	
RCD NO.	
PURPOSE	LASS
VERT. UNITS	10µV
HOR. UNITS	500A
REMARKS:	□ ↓ B

29
 2A 3, 4
 1C 1, 2

3000A

D




STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB	
DATE	Feb 6 1973
SAMPLE NO.	25TOP
MAT'L	
SUPPLIER	
REQ. NO.	
PURPOSE	LASS
VERT. UNITS	10 MV
HOR. UNITS	500A
REMARKS:	□ 18

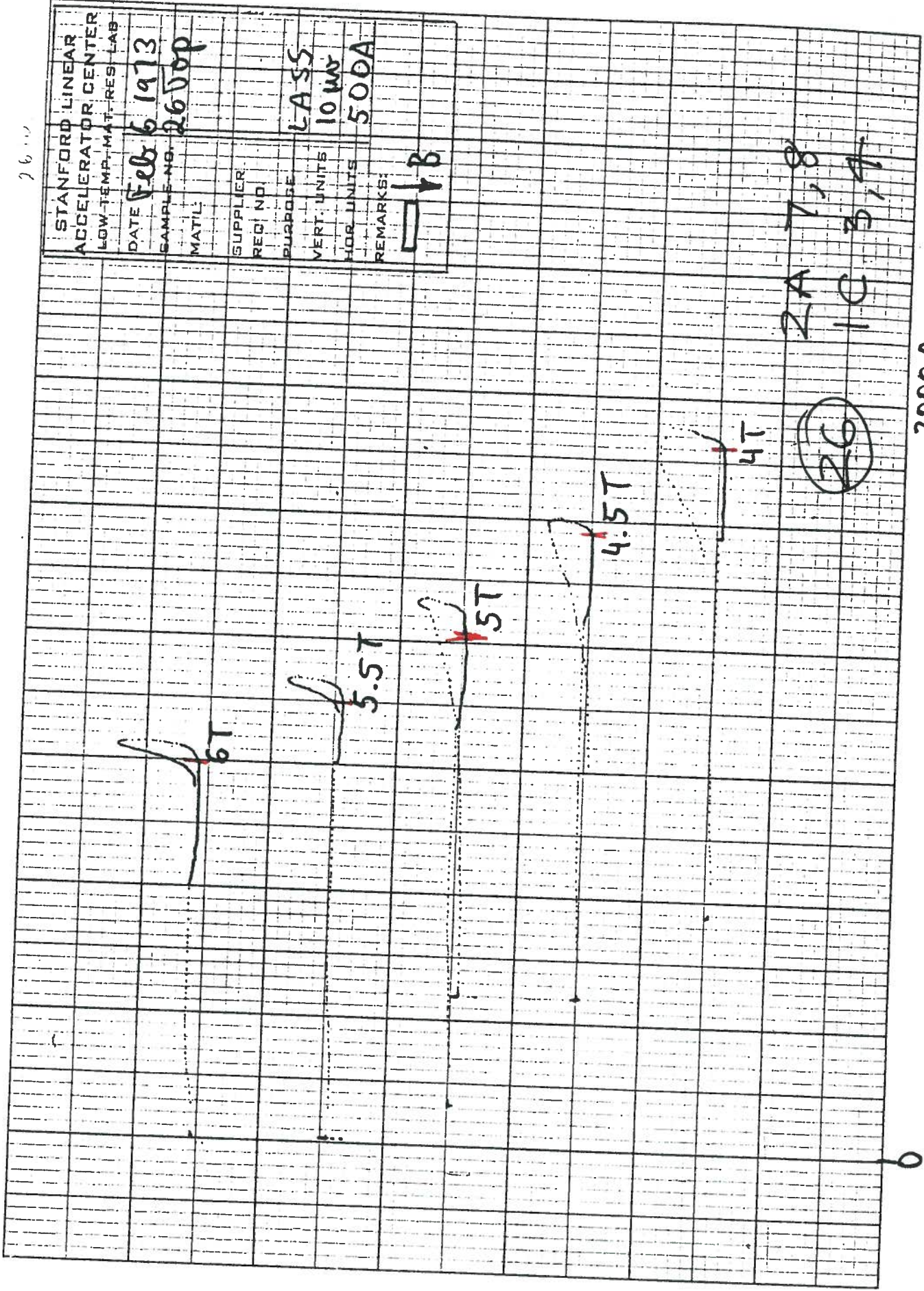
25
 2A 5.6
 4A/B 9.10

3000 A

0

26.0

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE Feb 6 1973
SAMPLE NO. 2650p
MAT'L
SUPPLIER
REG. NO.
PURPOSE LASS
VERT. UNITS 10 MW
HOR. UNITS 500A
REMARKS: 

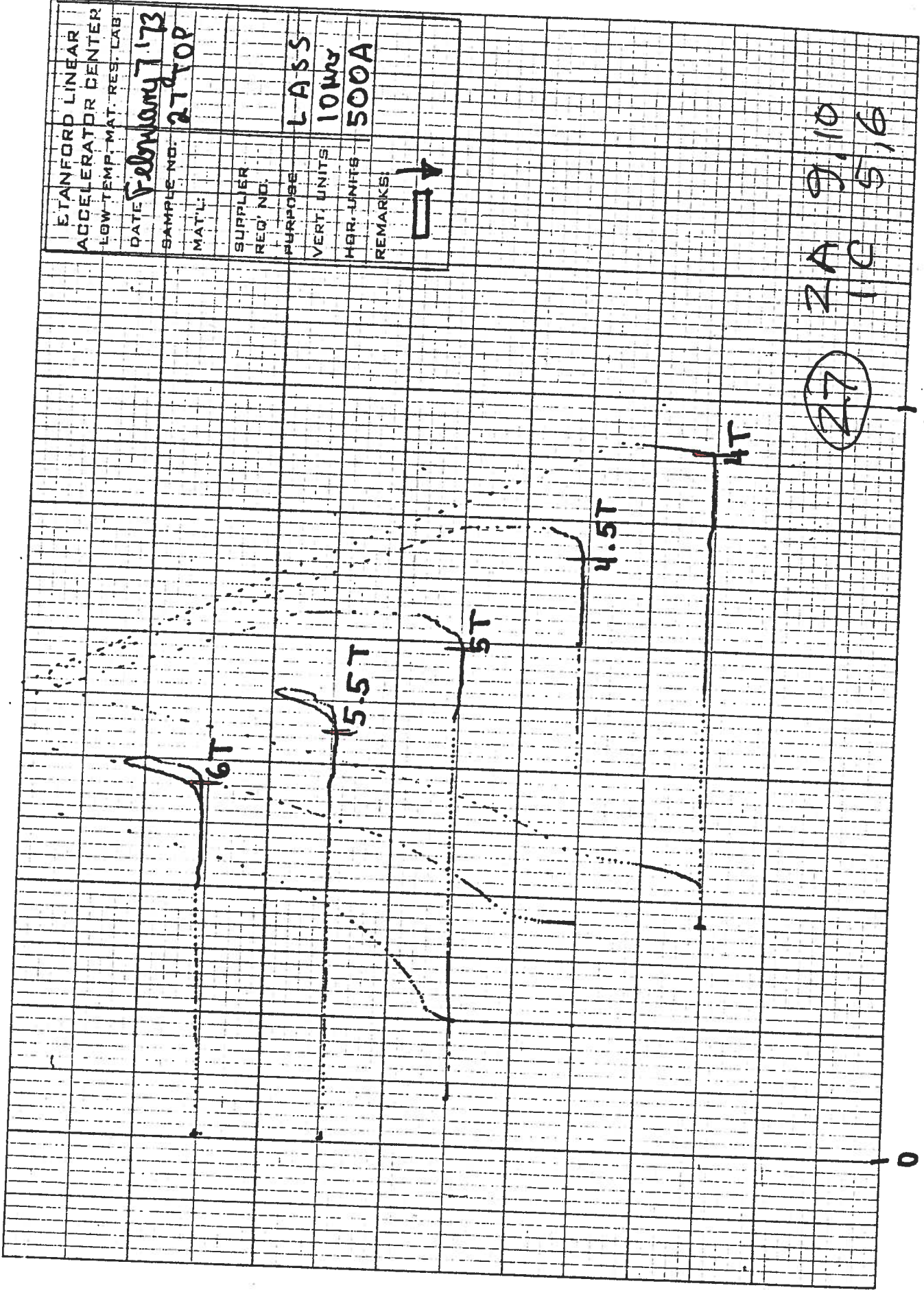


2A 7,8
 1C 3,4

3000A

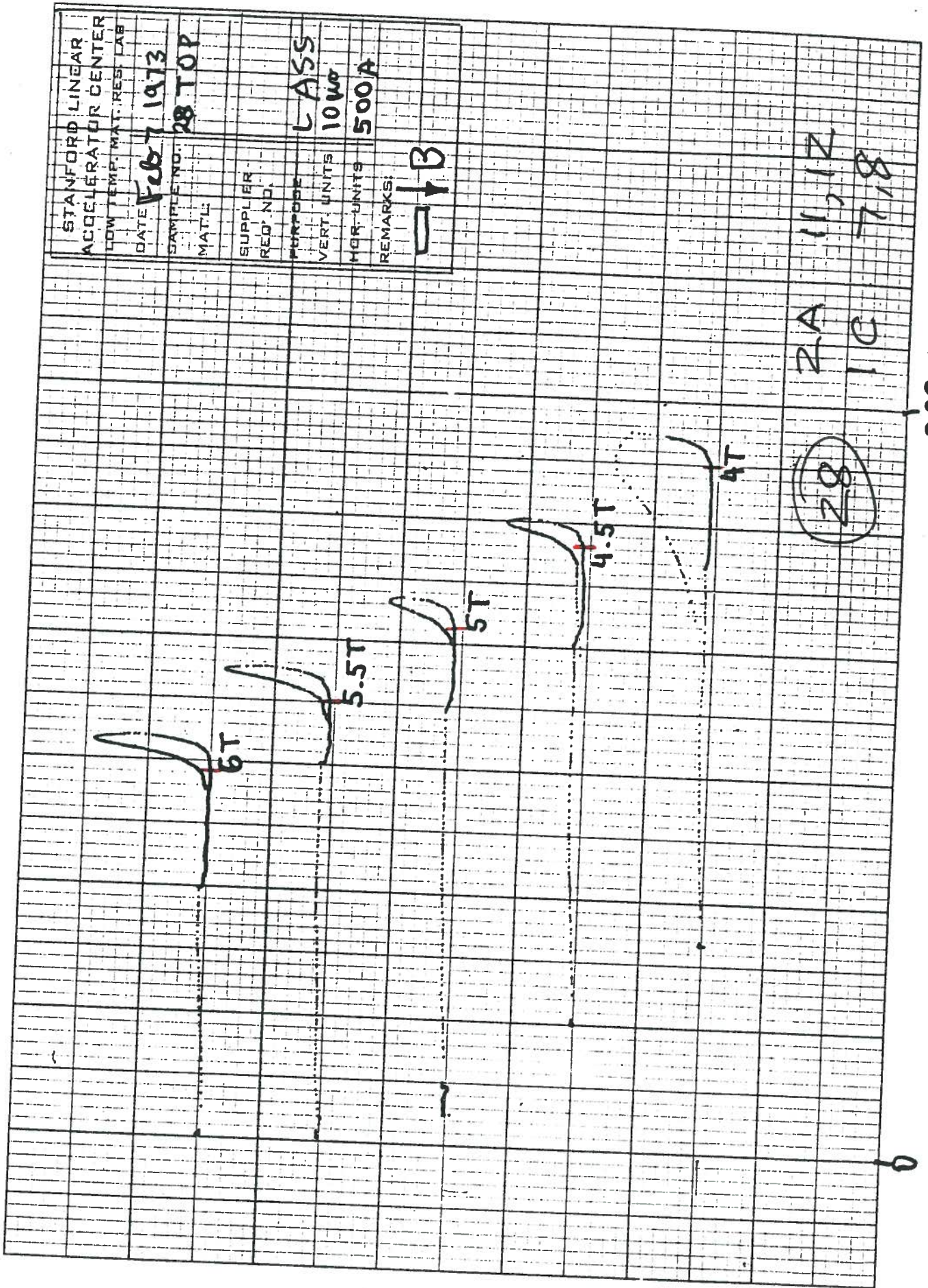
HEWLETT-PACKARD/NOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION


STANFORD LINEAR ACCELERATOR CENTER LOW-TEMP. MAT. RES. LAB.	
DATE	February 7, '73
SAMPLE NO.	2T TOP
MAT'L	
SUPPLIER REQ. NO.	
PURPOSE	LASS
VERT. UNITS	10mV
HOR. UNITS	500A
REMARKS	



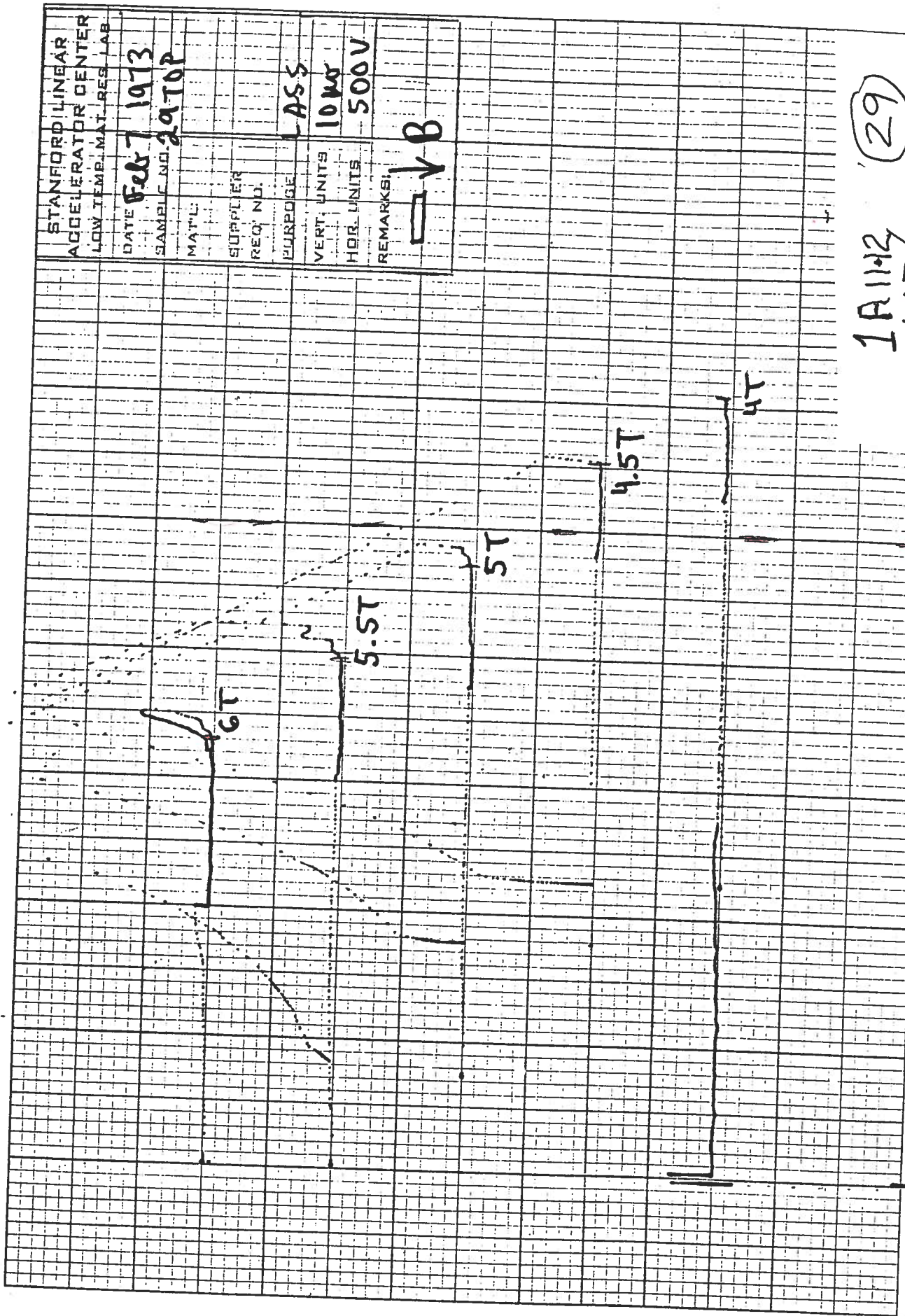
7A 9.10
 7C 5.6


3.000



STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE Feb 7 1973
SAMPLE NO. 28 TOP
MAT'L
SUPPLIER
REQ. NO.
PURPOSE LASS
VERT. UNITS 10 μ o
HOR. UNITS 500A
REMARKS 

HEWLETT-PACKARD/MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAF RECORDERS
10 UNITS/DIVISION

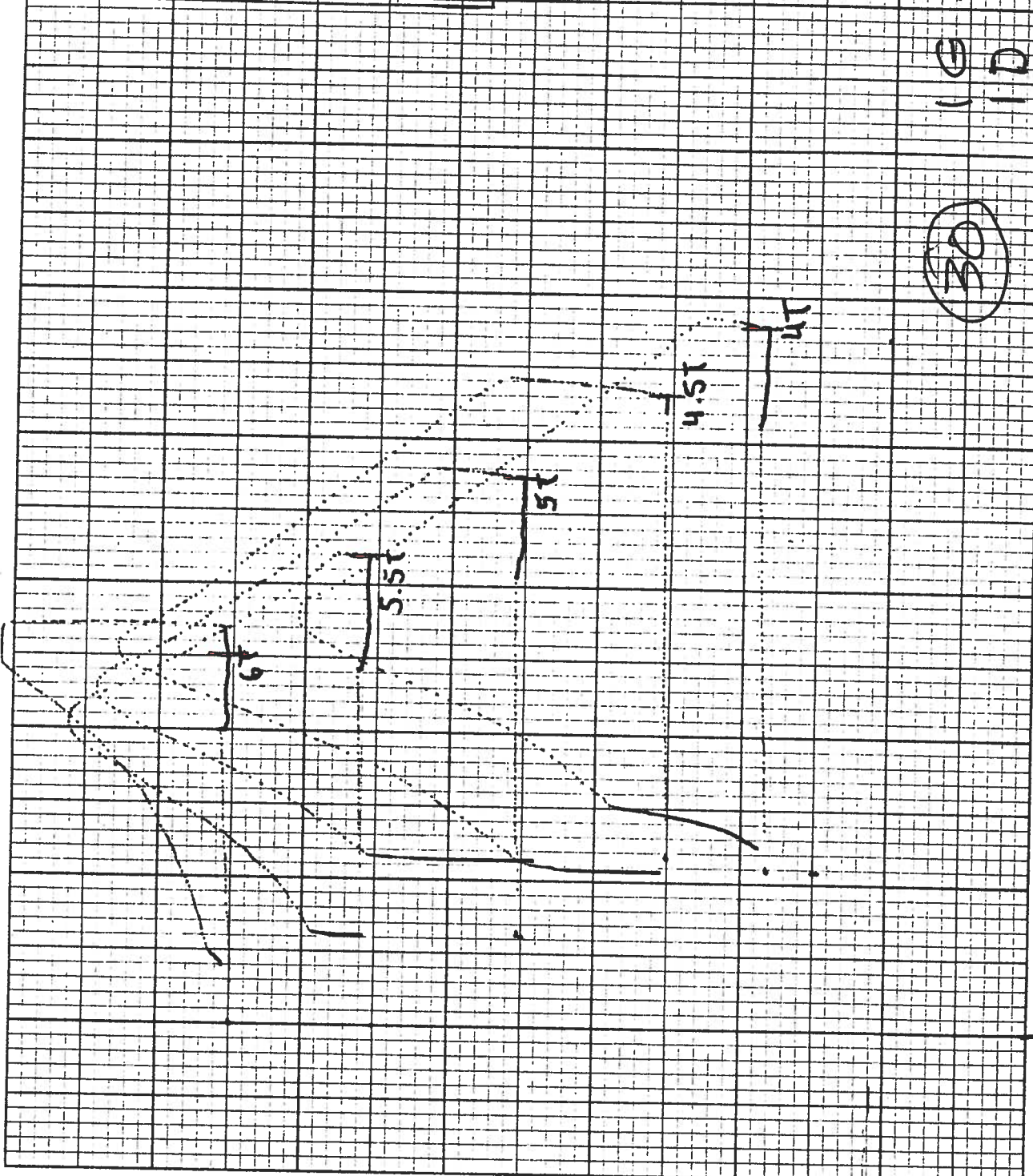


STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE Feb 7 1973
SAMPLE NO. 29TOP
MAT'L:
SUPPLIER:
REQ. NO.:
PURPOSE: LASS
VERT. UNITS: 10mV
HOR. UNITS: 500V
REMARKS: 

1A1112 (29)
4AB/34

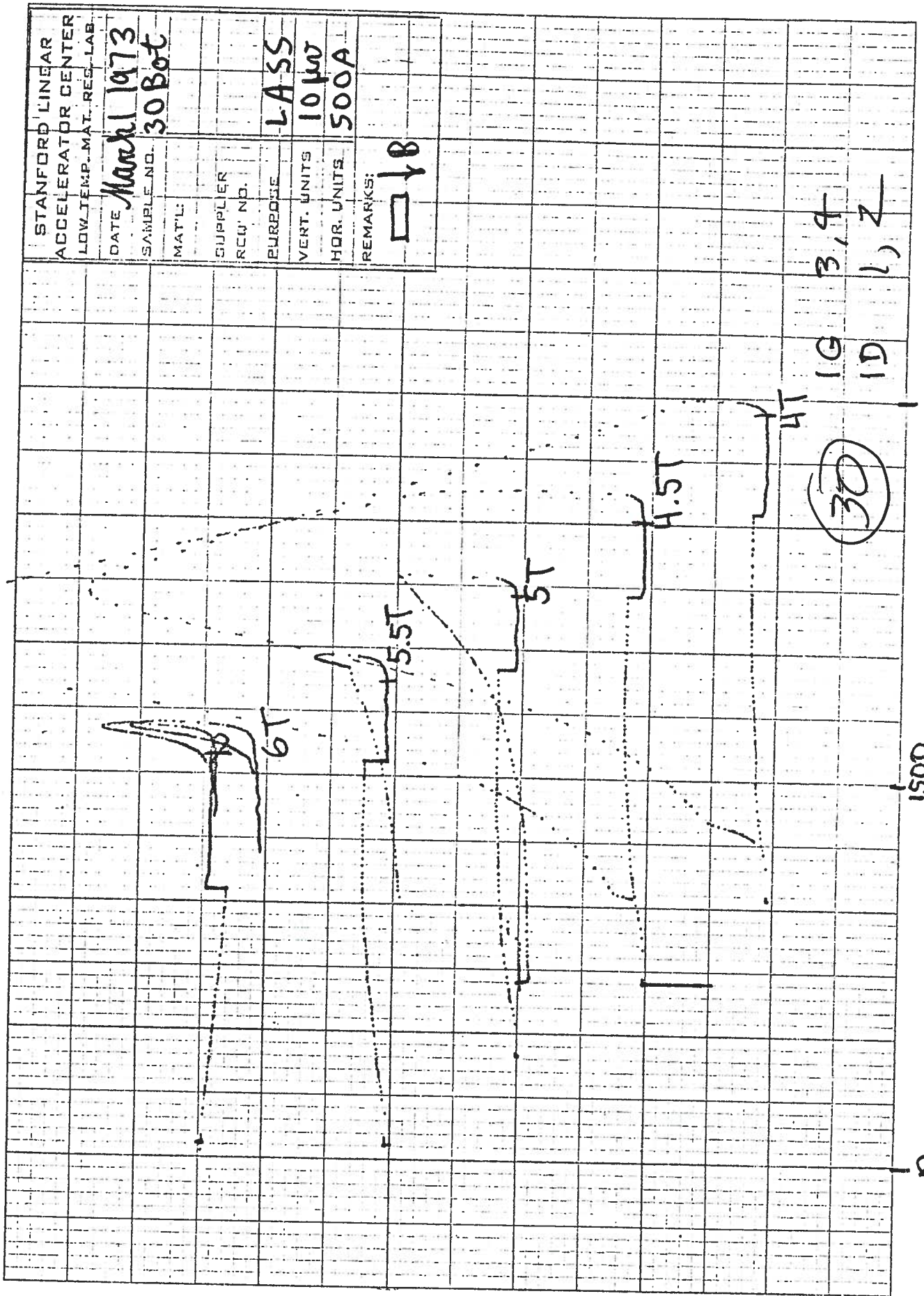
2000

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	
DATE	March 27 1973
SAMPLE NO.	30 TOP
MAT'L	
SUPPLIER	
REQ. NO.	
PURPOSE	CLASS
VERT. UNITS	10μv
HOR. UNITS	500A
REMARKS	30

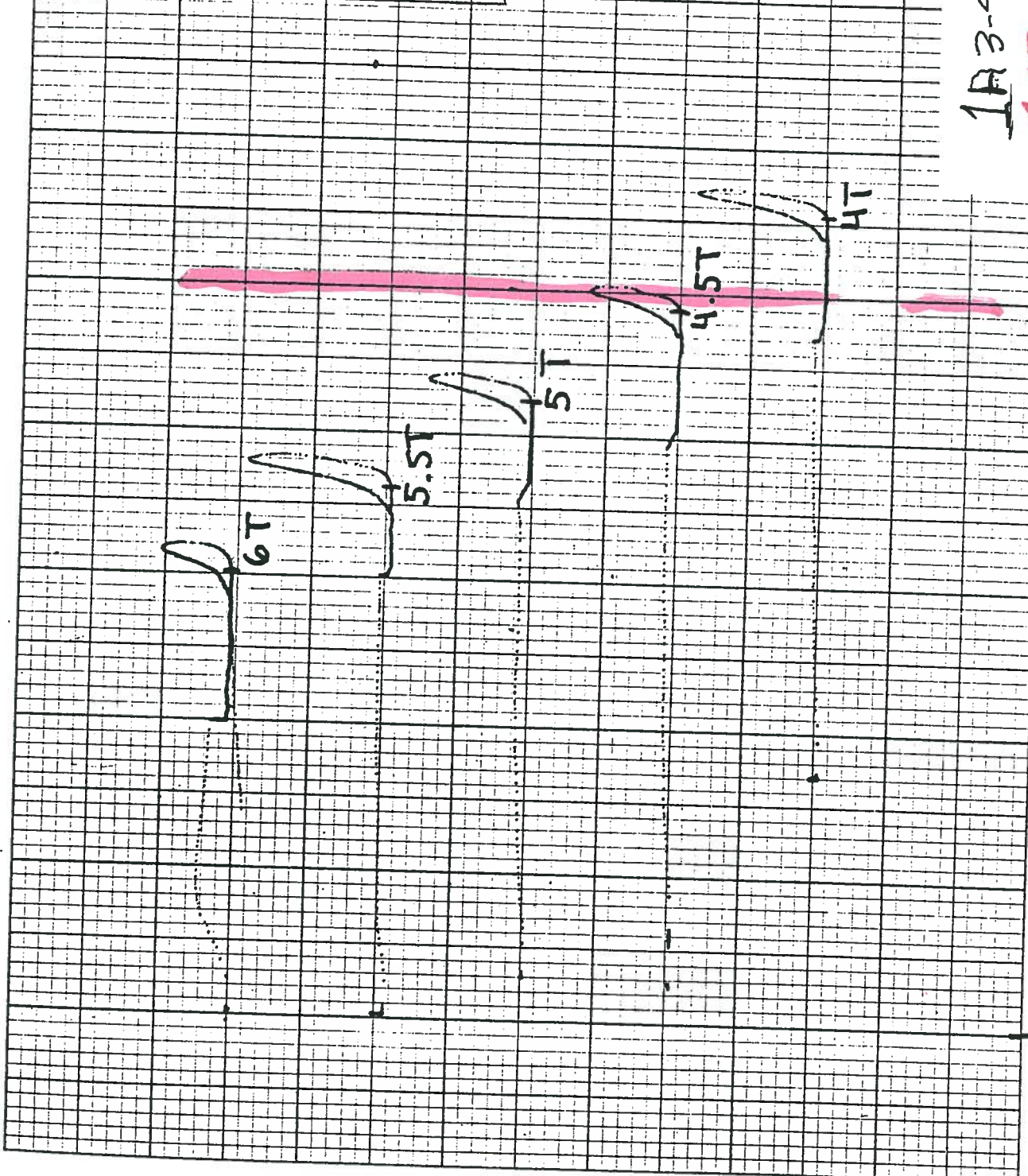


30
 10 3,4
 10 1,2

HEWLETT-PACKARD/MOSELEY DIVISION
 5270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION



STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE Feb 7 1973
SAMPLE NO. 31TOP
MATL:
SUPPLIER
REQ. NO.
PURPOSE L-ASS
VERT. UNITS 10W
HOR. UNITS 500A
REMARKS: → B




31

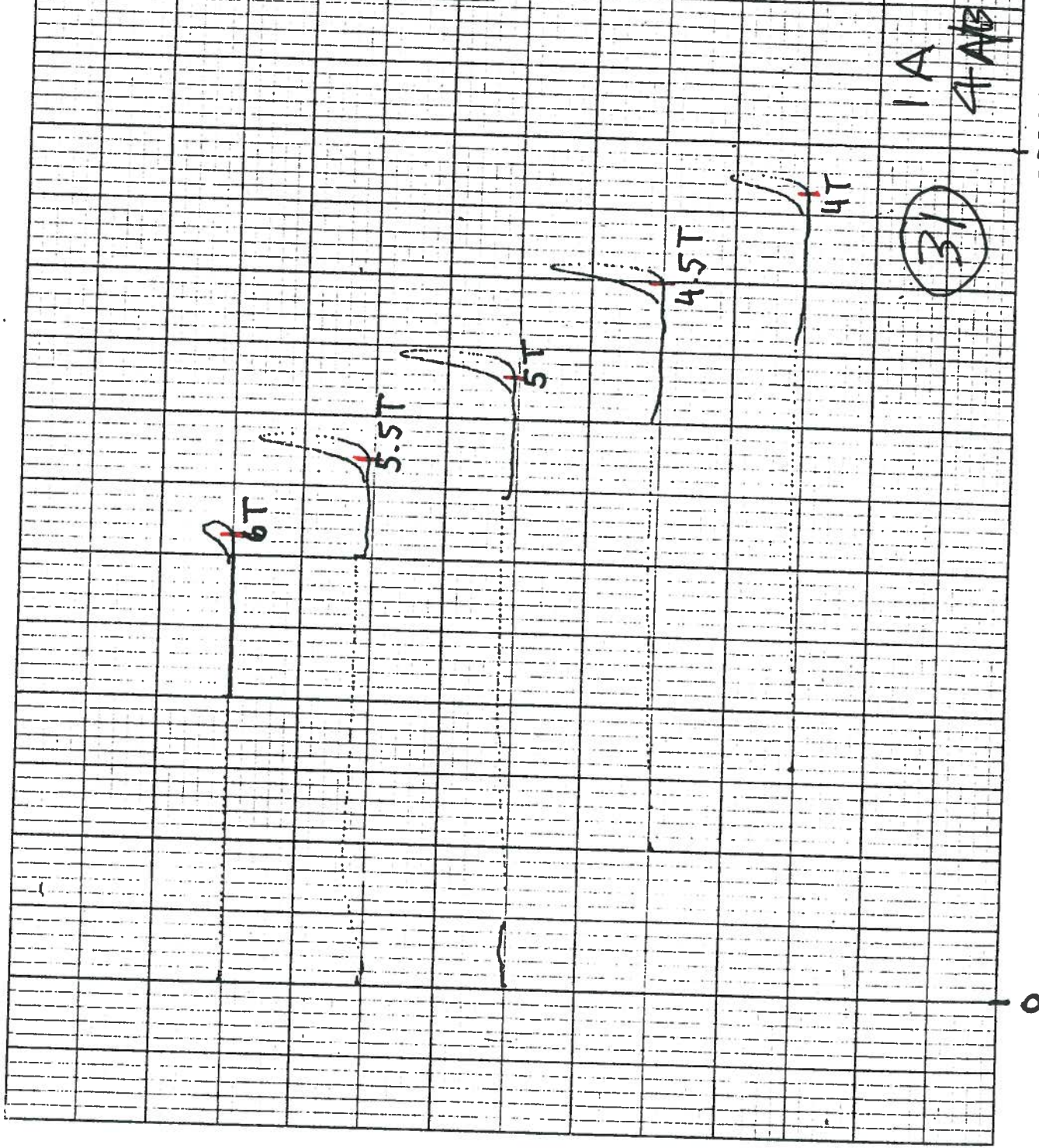
1A3-4

FAB 516

AMPS

3000

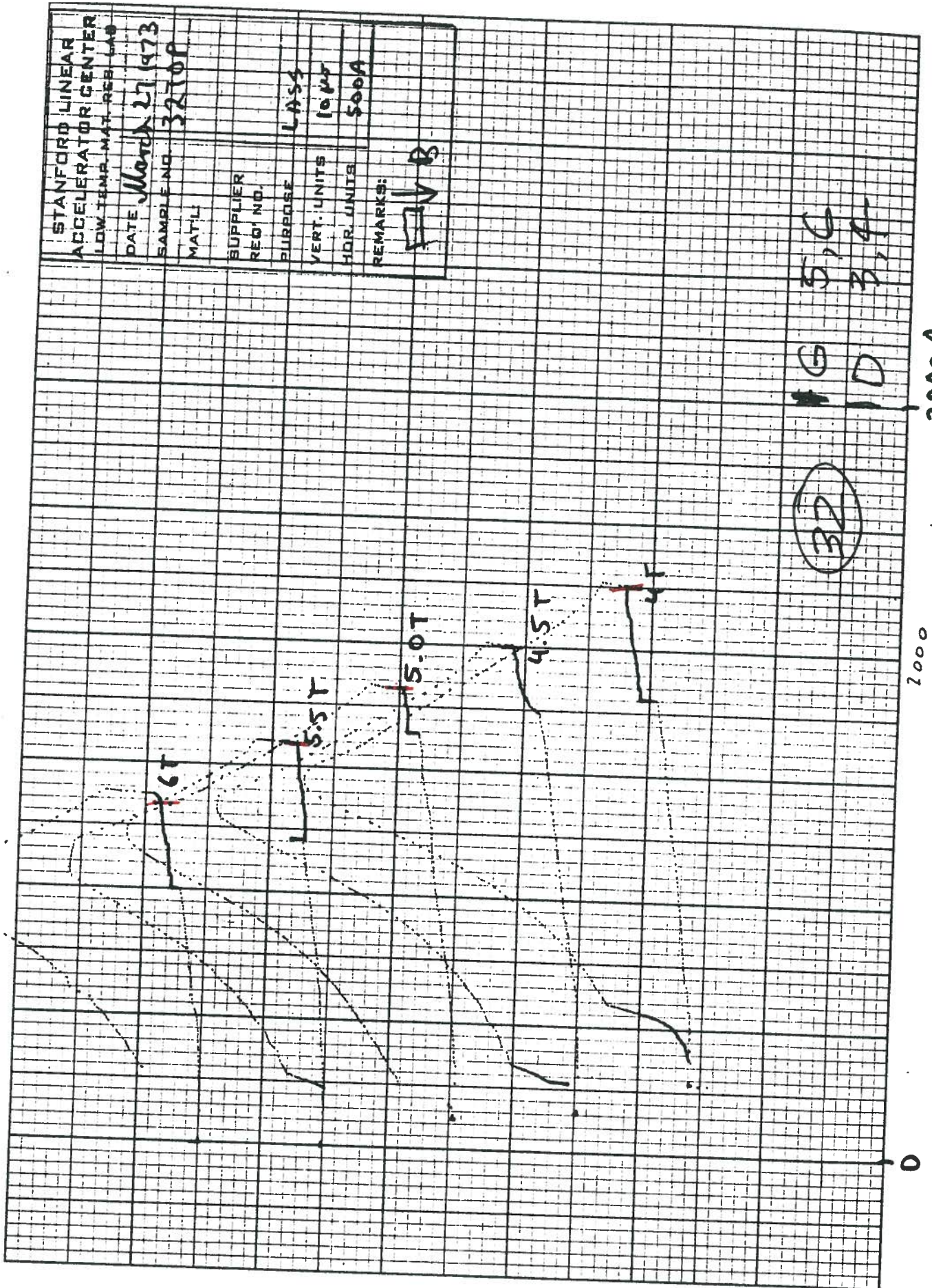
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE February 6 1973
SAMPLE NO. 31 Bott
MAT'L:
SUPPLIER
REQ. NO.
PURPOSE LASS
VERT. UNITS 10 mV
HOR. UNITS 500 A
REMARKS: 



1A 3, 4
 4AB 5, 6

90000


STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	
DATE	March 27 1973
SAMPLE NO.	3270F
MAT'L	
SUPPLIER REQ. NO.	
PURPOSE	LASS
VERT. UNITS	10 μv
HOR. UNITS	500A
REMARKS:	FVB

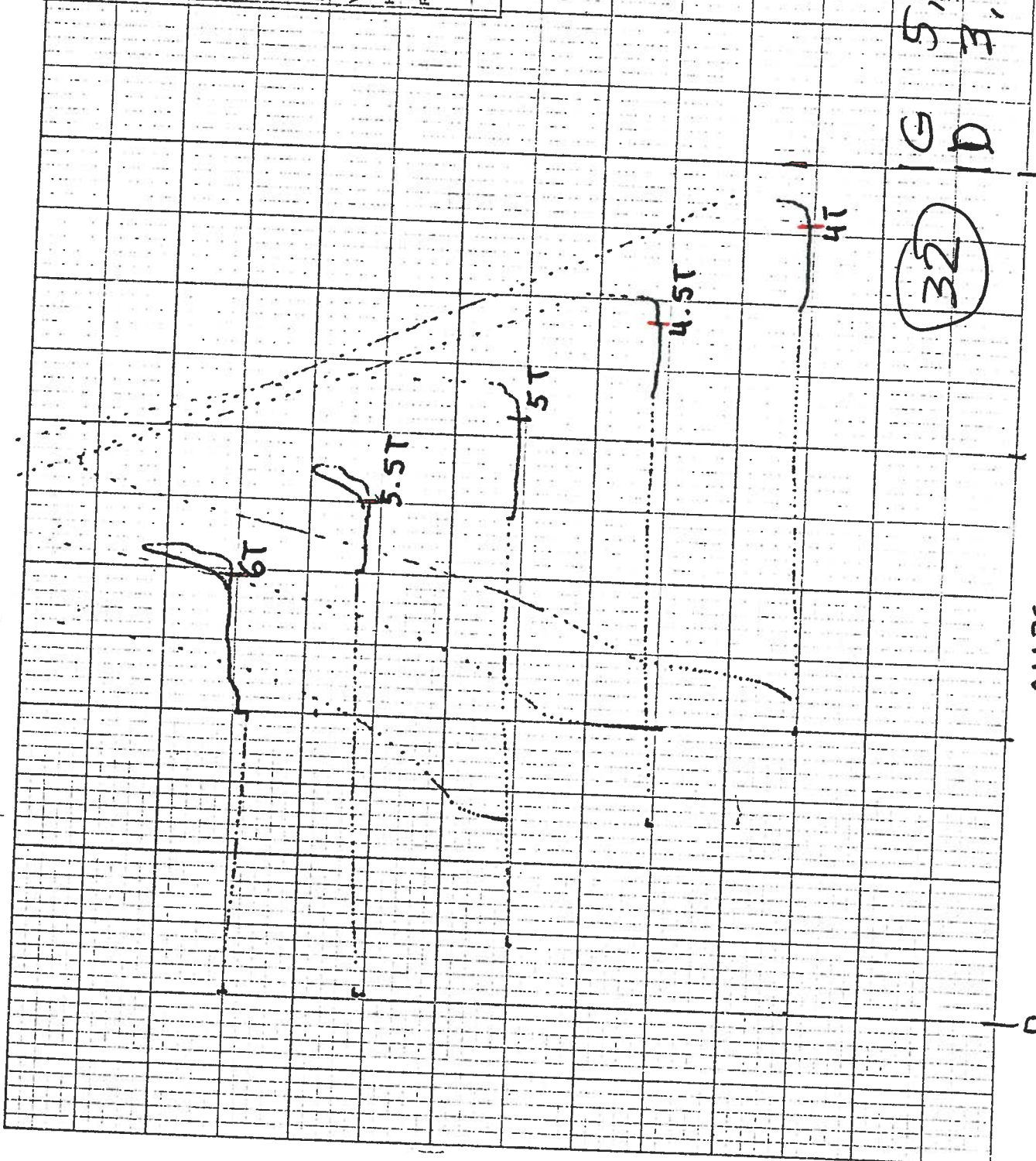


32
 G 5.5
 D 3.4

2000

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

STANFORD LINEAR ACCELERATOR CENTE LOW TEMP. MAT. RES. LAB
DATE: March 1 1973
SAMPLE NO. 32 Bot
MAT'L:
SUPPLIER:
REQ. NO.:
PURPOSE: LASS
VERT. UNITS: 10 MW
HOR. UNITS: 500 A
REMARKS: 



32
 G ID
 5.6
 3.4

ALDC

STANFORD LINEAR
 ACCELERATOR CENTER
 LOW TEMP. MAT. RES. LAB

DATE March 27 1973

SAMPLE NO. 53TOP

MATL:

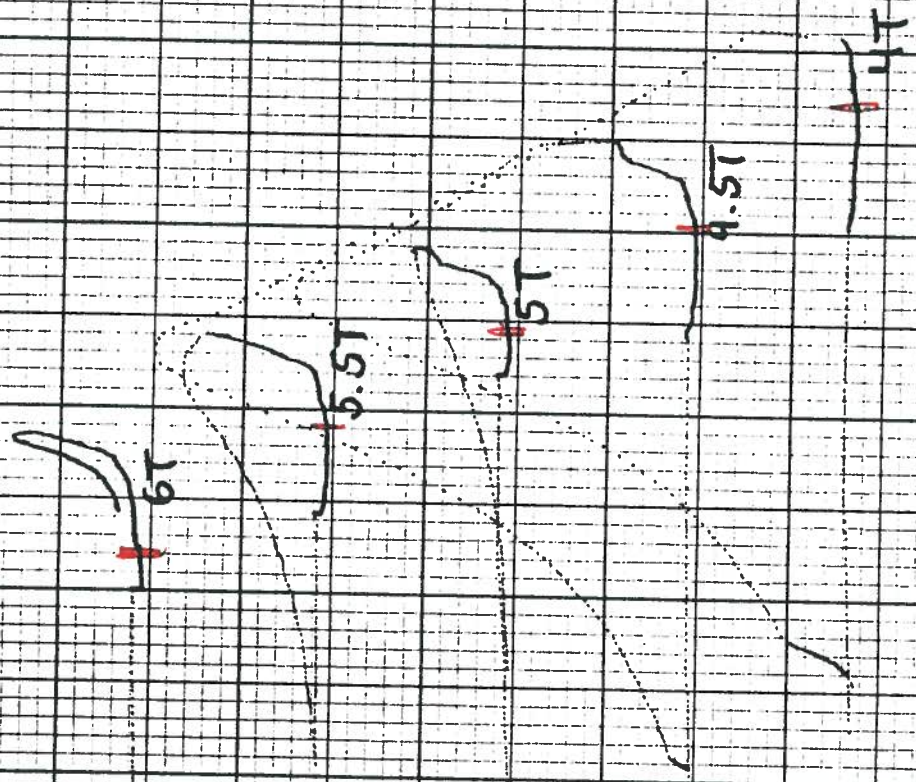
SUPPLIER
 RES. NO.

PURPOSE CASS

VERT. UNITS 10 MV

HORIZ. UNITS 500A

REMARKS
 5VB



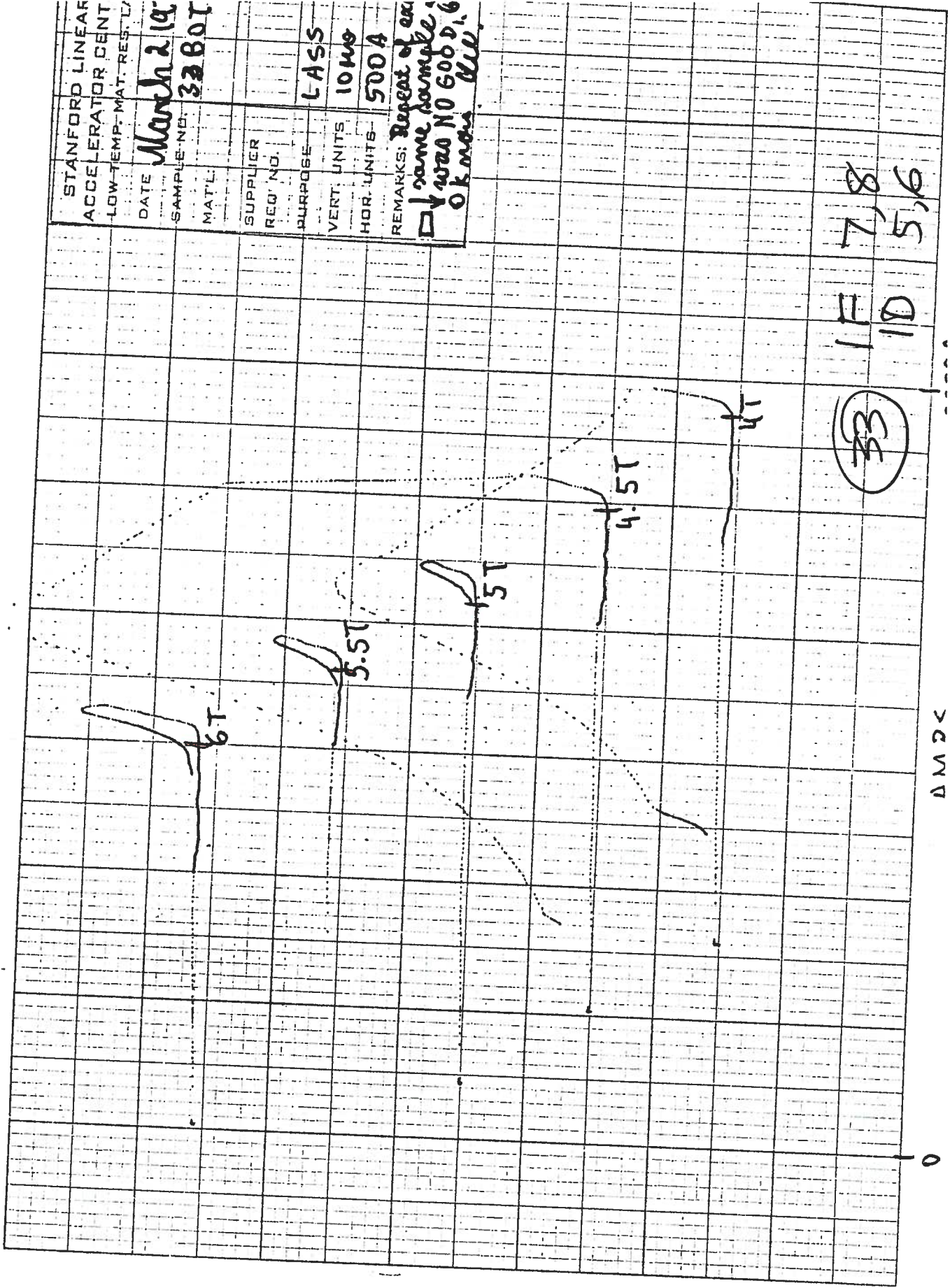
(33)

IF 7,8

ID 5,6

3000A

HEWLETT-PACKARD/MOSELEY DIVISION
 9270.1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

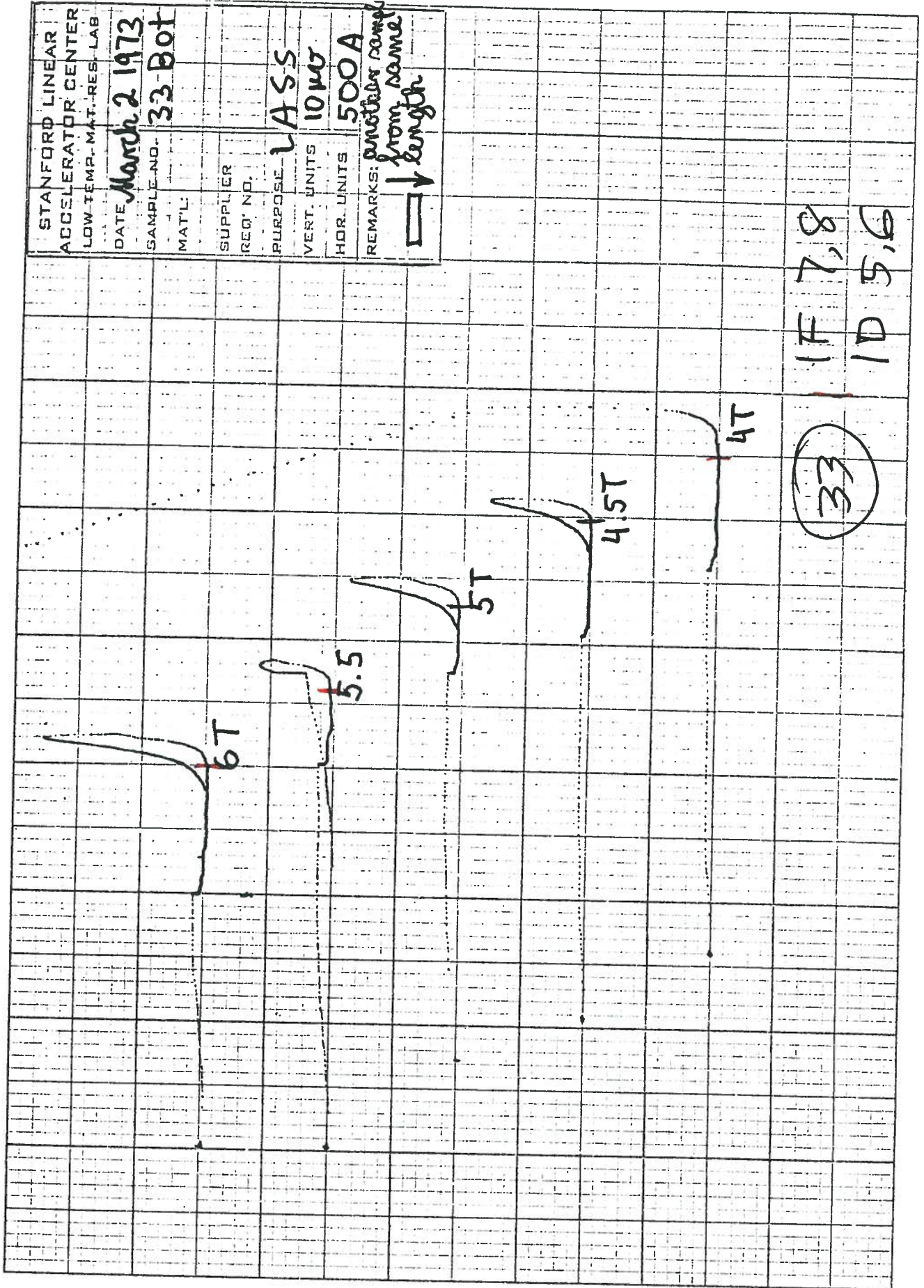


STANFORD LINEAR	DATE	March 2, 19
ACCELERATOR CENT	SAMPLE NO.	3380T
LOW TEMP. MAT. RES.	MATL.	
SUPPLIER	REQ. NO.	
PURPOSE	VERT. UNITS	LASS
	HOR. UNITS	10Mg
		500A
REMARKS: Repeat of ex <input checked="" type="checkbox"/> same sample. Y was NO 600 D, 6 OK mos. Div.		

IF 7,8
 ID 5,6
 (33)

AMDC

HEWLETT-PACKARD, MOSELEY DIVISION
9270-1006
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION

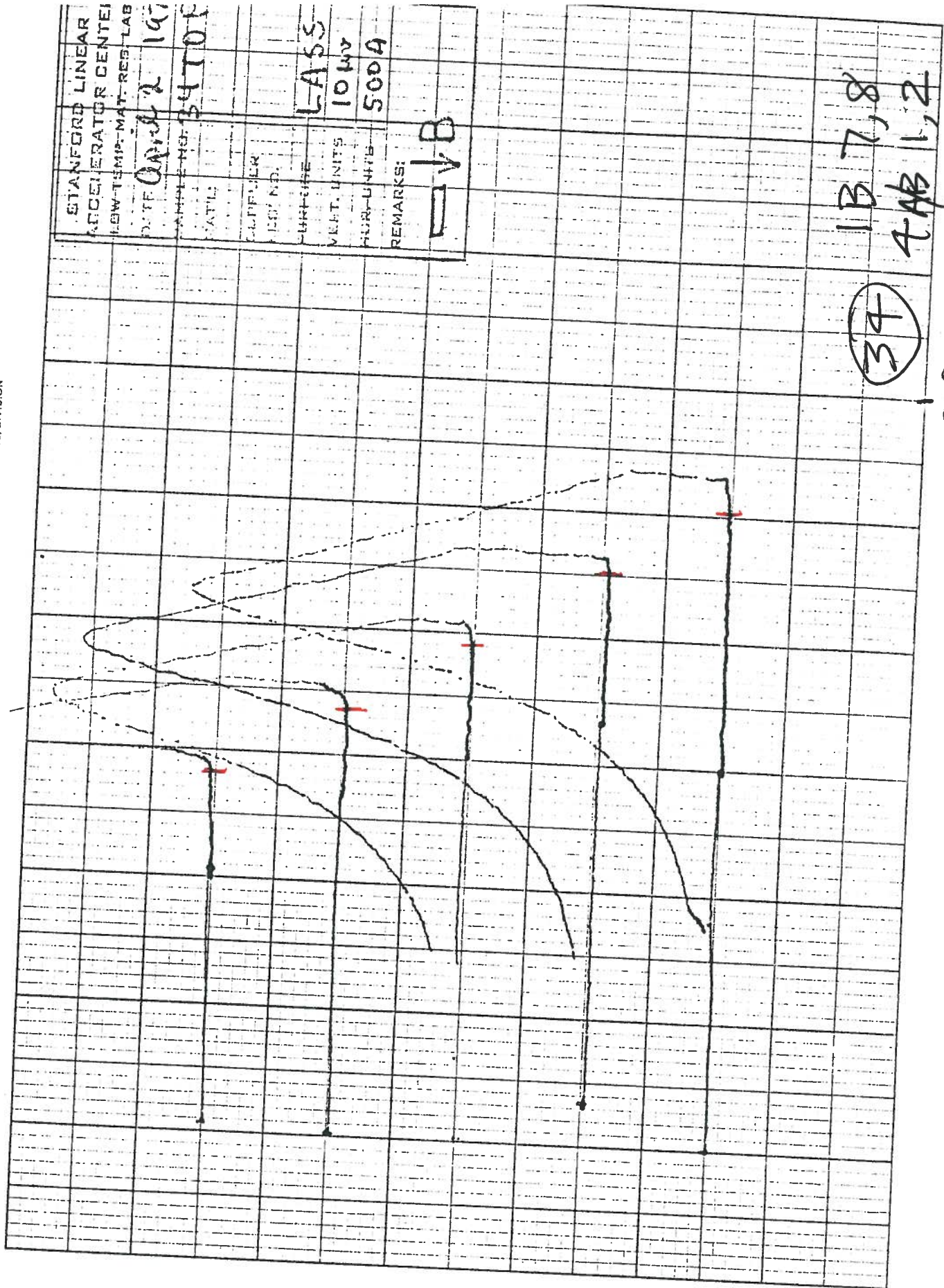


STANFORD LINEAR ACCELERATOR CENTER LOW-TEMP. MAT. RES. LAB
DATE: March 2 1973
SAMPLE NO.: 33 Bot
MAT'L:
SUPPLIER
REQ. NO.
PURPOSE: LASS
VERT. UNITS: 10M
HOR. UNITS: 500A
REMARKS: another sample from same length

IF 7.8
ID 5.6

33

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION



STANFORD LINEAR ACCELERATOR CENTER LOW-TEMP-MAT-RES LAB
DATE April 2 1957
SAMPLE NO. 34TOP
COPY NO.
UNIT NO.
UNIT NO.
VERT. UNITS 10 MV
HORIZ. UNITS 500A
REMARKS: vB

IB 7,8
 4 AB 1,2

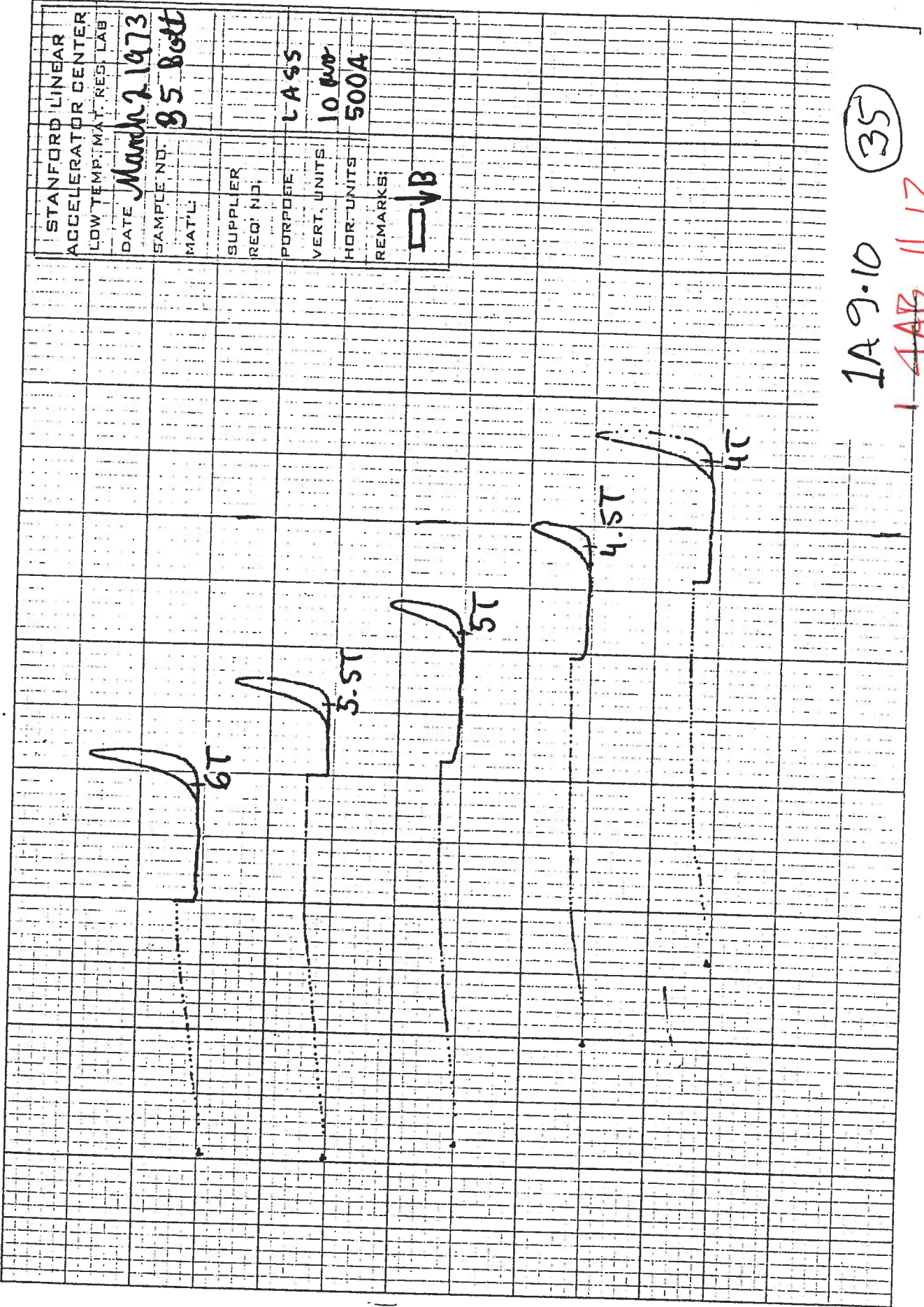
34

HEWLETT-PACKARD/MOSELEY DIVISION
 9270.1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION

STANFORD LINEAR	DATE	APR 2 1973
ACCELERATOR CENTE	SAMPLE NO.	34 BOT
LOW TEMP. MAT. RES. LAE	MATL.	
	SUPPLIER	
	REQ. NO.	
	PURPOSE	CLASS
	VERT. UNITS	10 μV
	HOR. UNITS	500 Å
	REMARKS:	↓ B



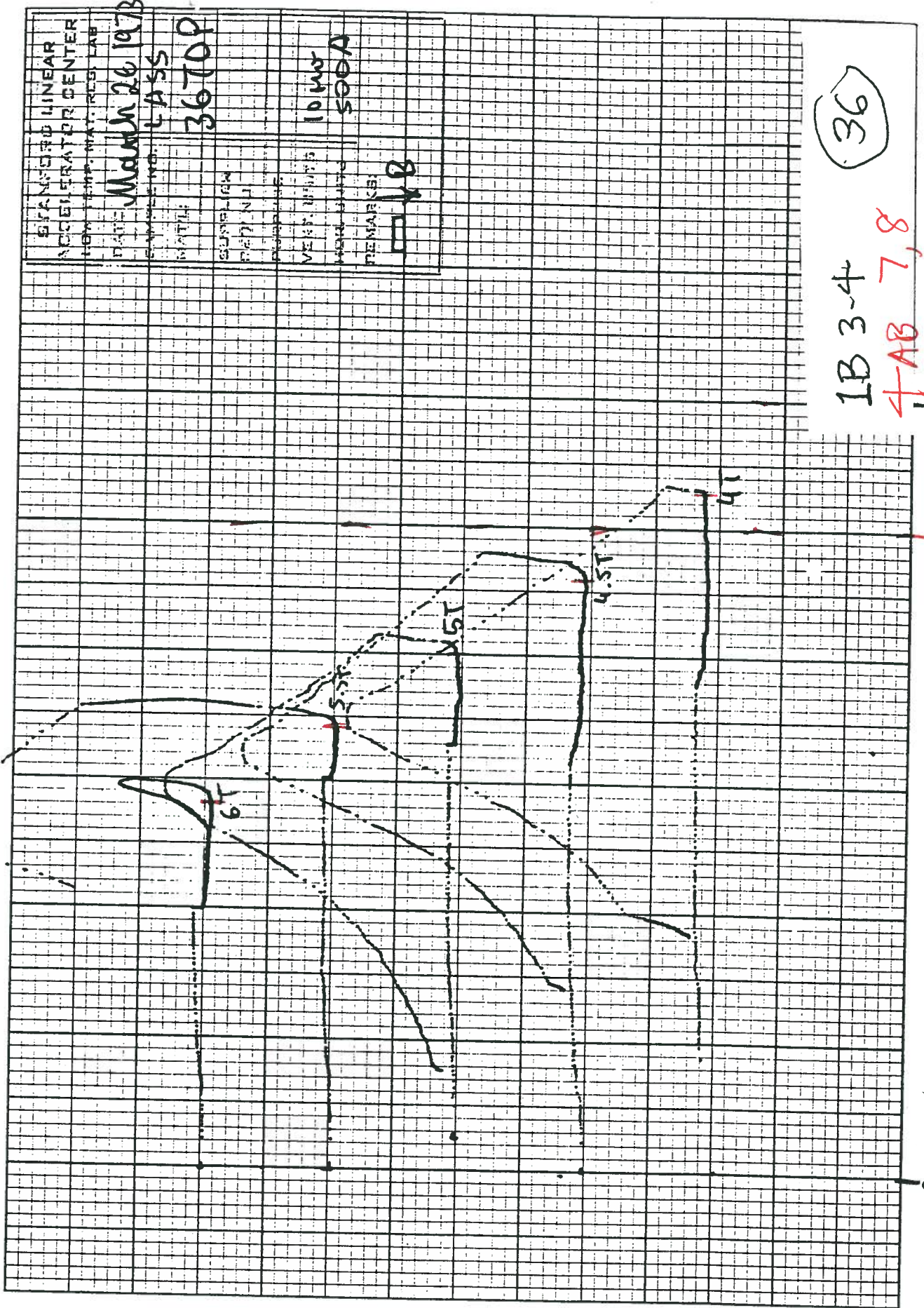
IB 7-8
 4-AB 1, 2
 39



STANFORD LINEAR
ACCELERATOR CENTER
LOW TEMP. MAT. RES. LAB
DATE March 2 1973
SAMPLE NO. 95 Bott
MAT'L
SUPPLIER
REQ. NO.
PURPOSE LASS
VERT. UNITS 10 100
HOR. UNITS 500A
REMARKS:
P ↓
B →

1A 9-10 (35)
 1 TAB 11, 12

HEWLETT-PACKARD/MOSELEY DIVISION
9270.1006
FOR USE ON AUTOGRAF RECORDERS
10 UNITS/DIVISION



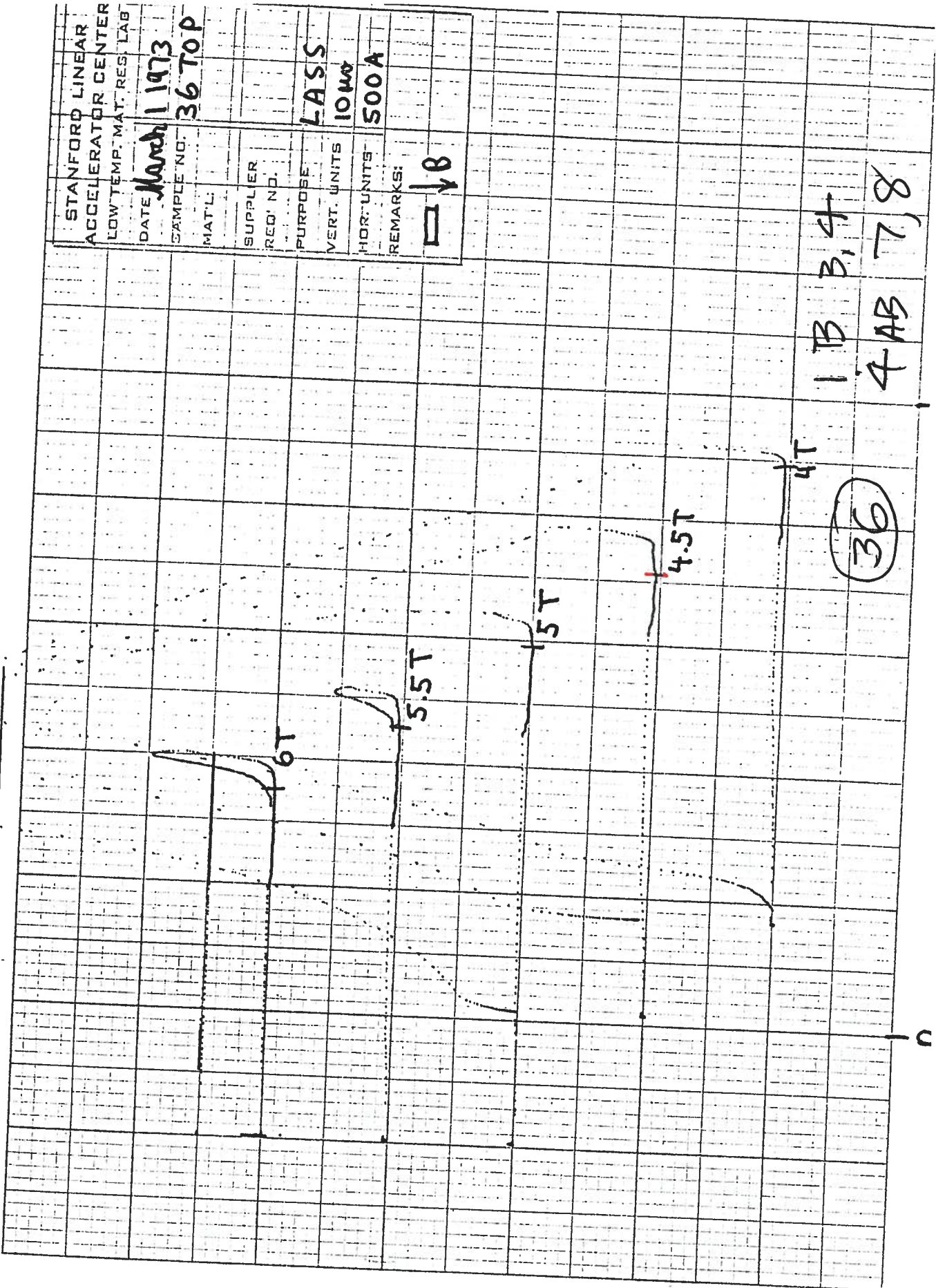
SIX INCHES DIAMETER ACCELERATOR CENTER	
LOW TEMP. MAT. RES. LAB.	
DATE	March 26 1973
SAMPLE NO.	CLASS
MATH	3670P
SIGNAL	
REF. NO.	
AMPLITUDE	
VERT. DIVS	10 W
HORIZ. DIVS	500A
REMARKS:	18

36

IB 3-4
4 AB 7, 8

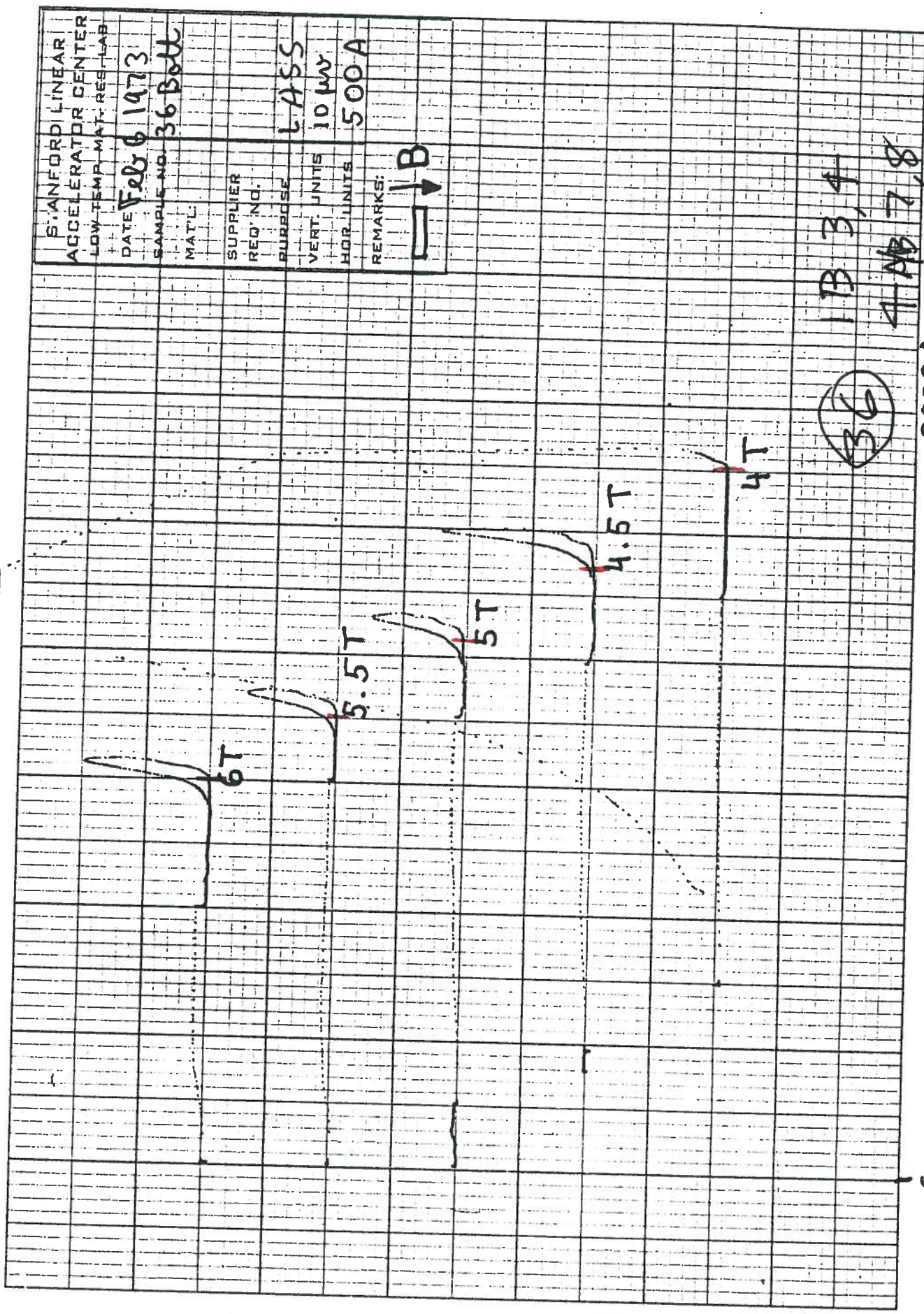
00000

HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION



STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB	
DATE	March 1 1973
SAMPLE NO.	36 TOP
MATL.	
SUPPLIER	
REQ. NO.	
PURPOSE	LASS
VERT. UNITS	10mV
HOR. UNITS	500A
REMARKS:	□ ↓ B

1 B 3, 4
 4 AB 7, 8



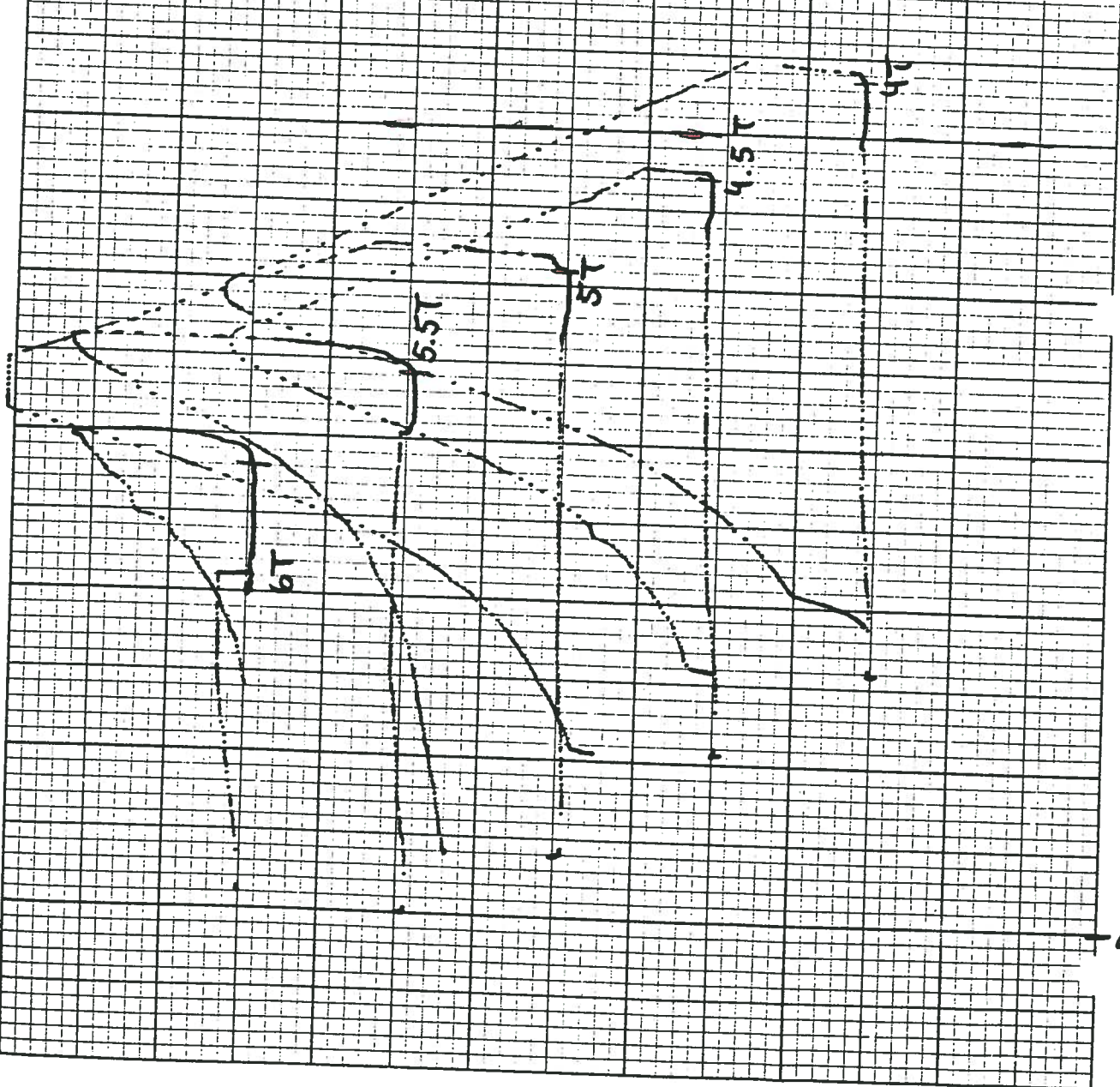
STANFORD LINEAR
ACCELERATOR CENTER
LOW TEMP. MAT. RES. LAB.
DATE Feb 6 1973
SAMPLE NO. 36 BOLL
MATEL.
SUPPLIER
REQ. NO.
PURPOSE LASS
VERT. UNITS 10 μ v
HOR. UNITS 500 A
REMARKS:
B

36
1B 3, 4
4A 7, 8

3000A

6

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB	
DATE	March 28 1973
SAMPLE NO.	37TOP
MATL.	
SUPPLIER	
REQ NO.	
PURPOSE	UASS
VERT. UNITS	1000
HOR. UNITS	500A
REMARKS:	37B



37

1B 1102

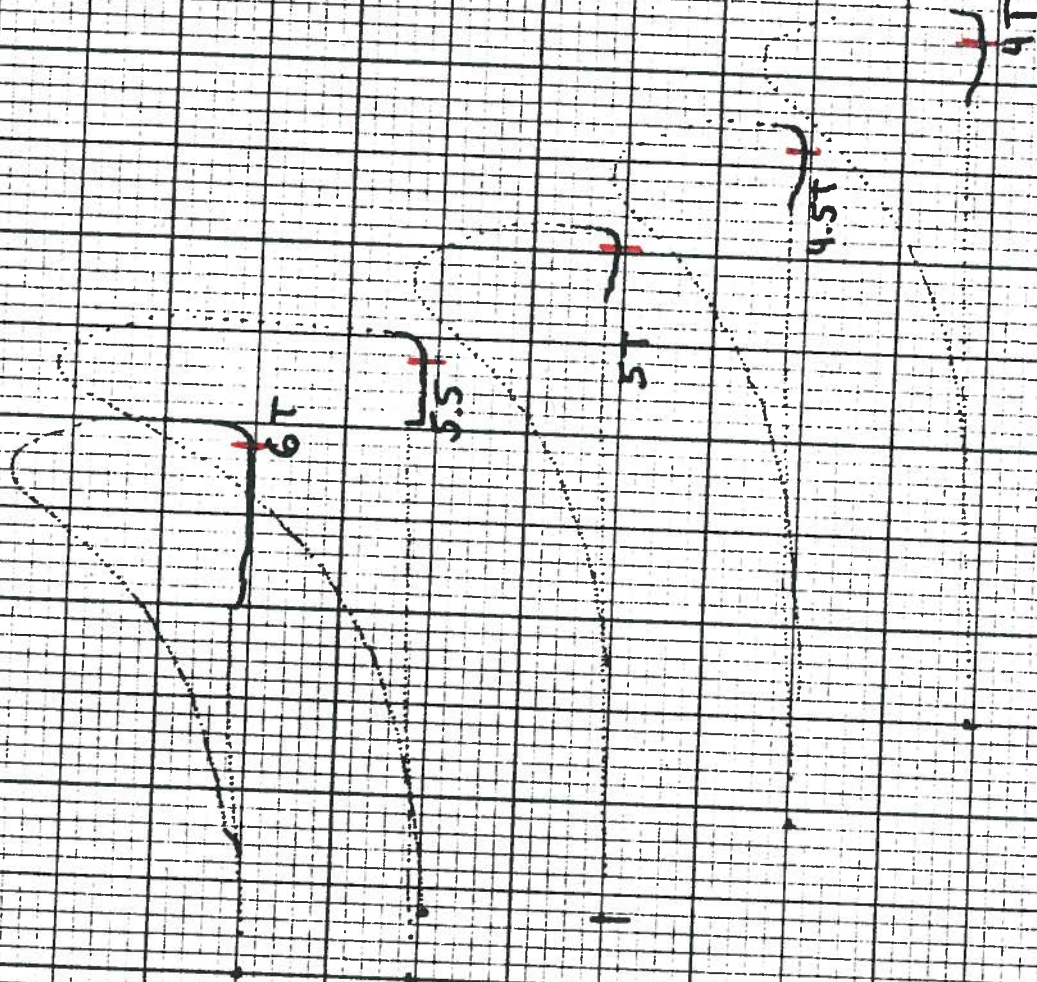
7.8

3000A

0

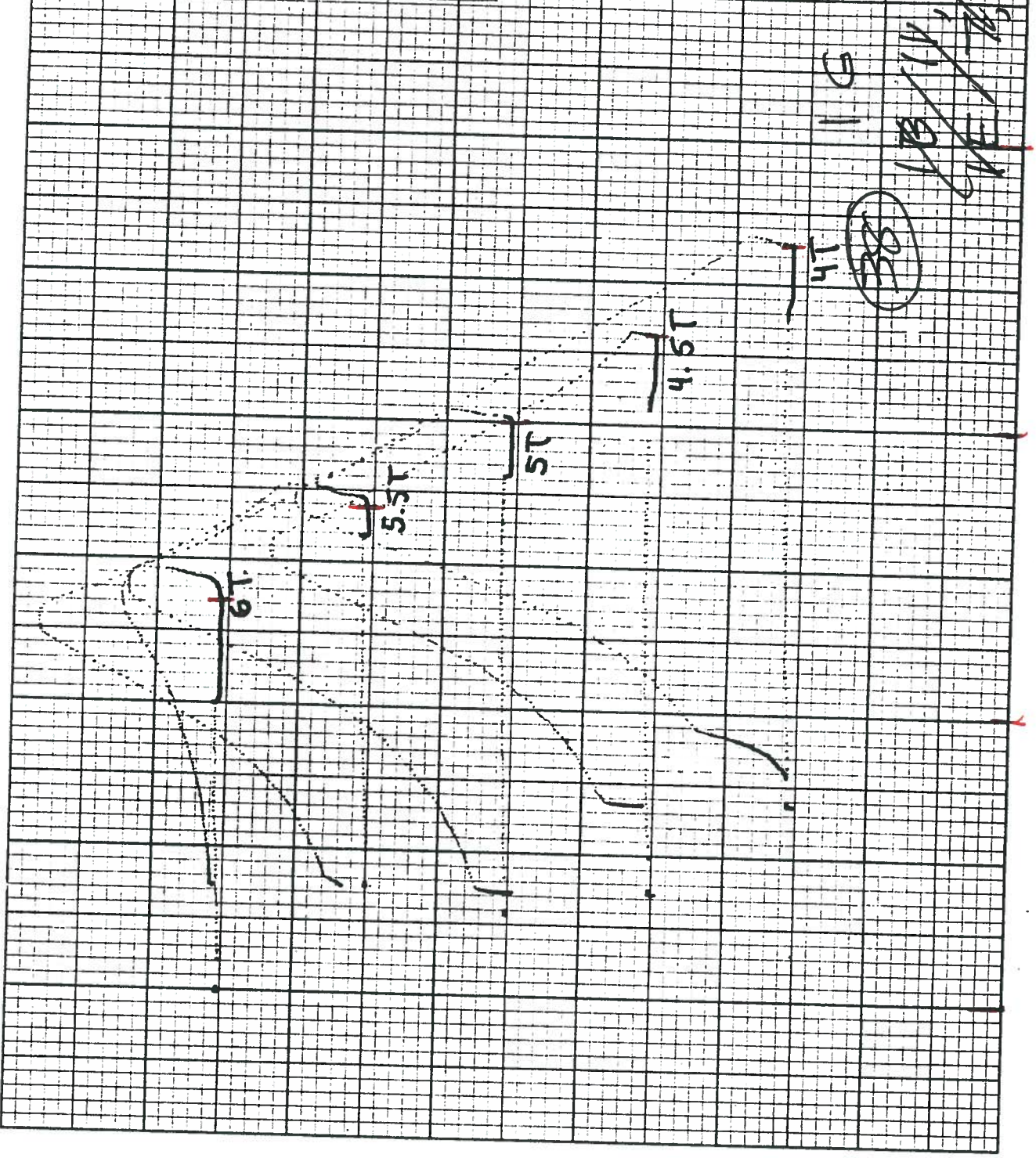
HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAPH RECORDERS
 10 UNITS/DIVISION

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	
DATE	March 20 1973
SAMPLE NO.	38 TOP
MATL.	
SUPPLIER	
REF. NO.	
PURPOSE	LASS
VERT. UNITS	10 MG
HOR. UNITS	500A
REMARKS:	↑ B

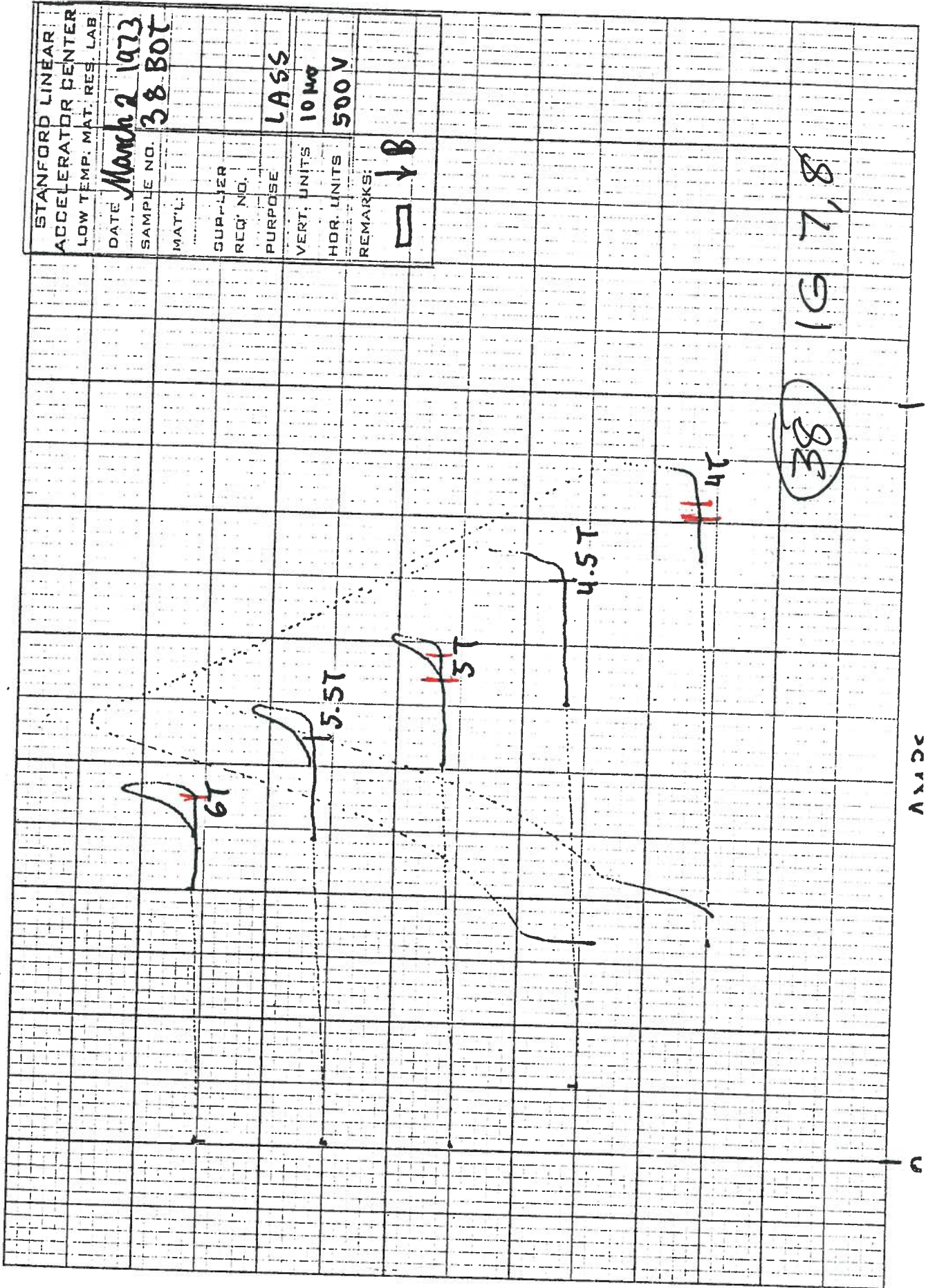


1E 7,8
 1B 11,12
 1E 1,18
 (38)

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MATTER LAB	
DATE	March 23 1973
SAMPLE NO.	TOP 38
MATL:	
SUPPLIER	
REQ. NO.	
PURPOSE	CLASS
VERT. UNITS	10 MV
HOR. UNITS	500A
REMARKS:	VB



HEWLETT-PACKARD/MOSELEY DIVISION
 9270-1006
 FOR USE ON AUTOGRAF RECORDERS
 10 UNITS/DIVISION



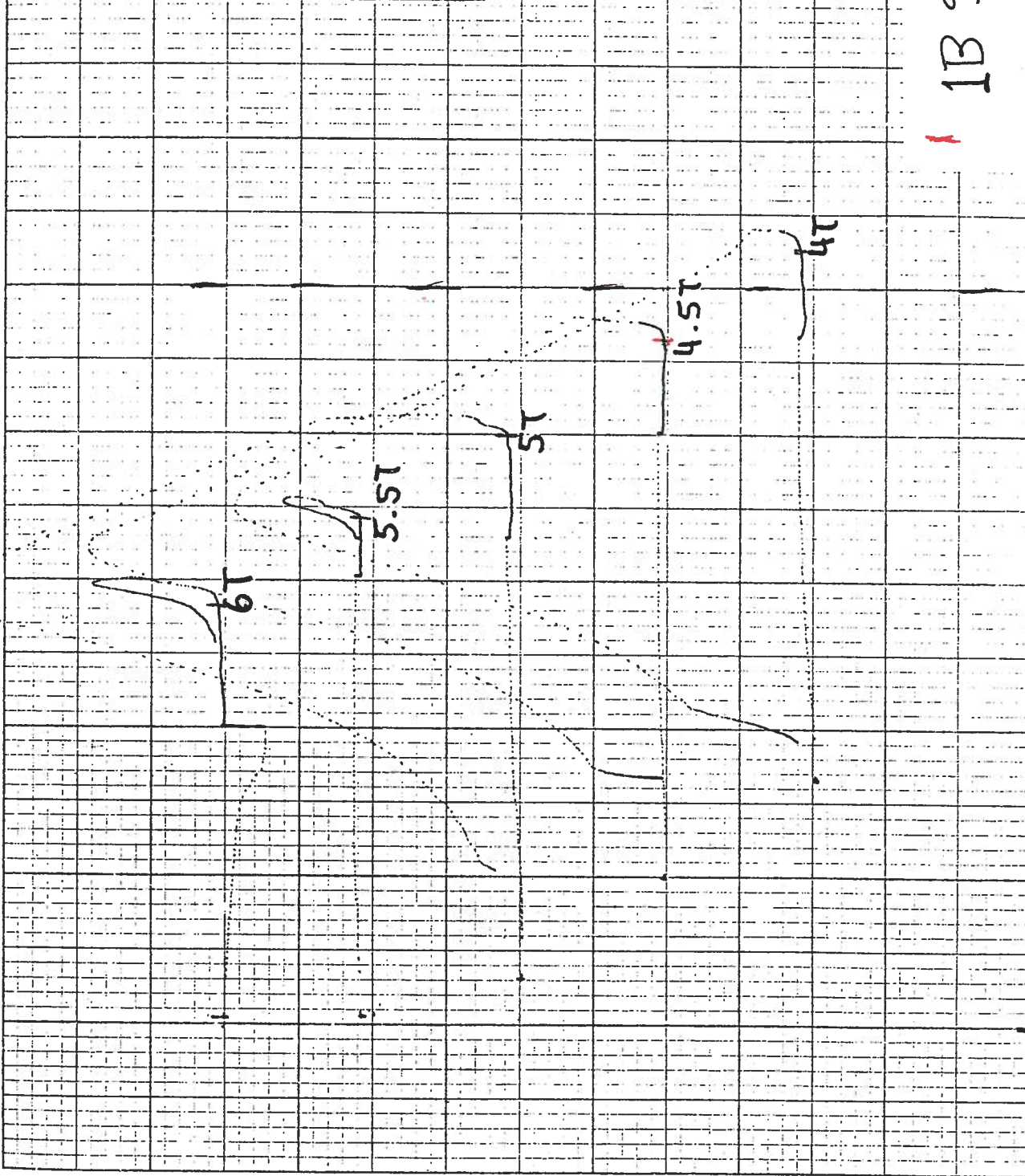
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE March 2 1973
SAMPLE NO. 38 BOT
MAT'L.
SUPPLIER
REQ. NO.
PURPOSE LASS
VERT. UNITS 10 μV
HOR. UNITS 500 V
REMARKS: □ ↓ B

38 V

16 7, 8

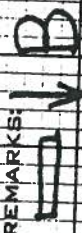
HEWLETT-PACKARD/MOSELEY DIVISION
9270-1008
FOR USE ON AUTOGRAPH RECORDERS
10 UNITS/DIVISION

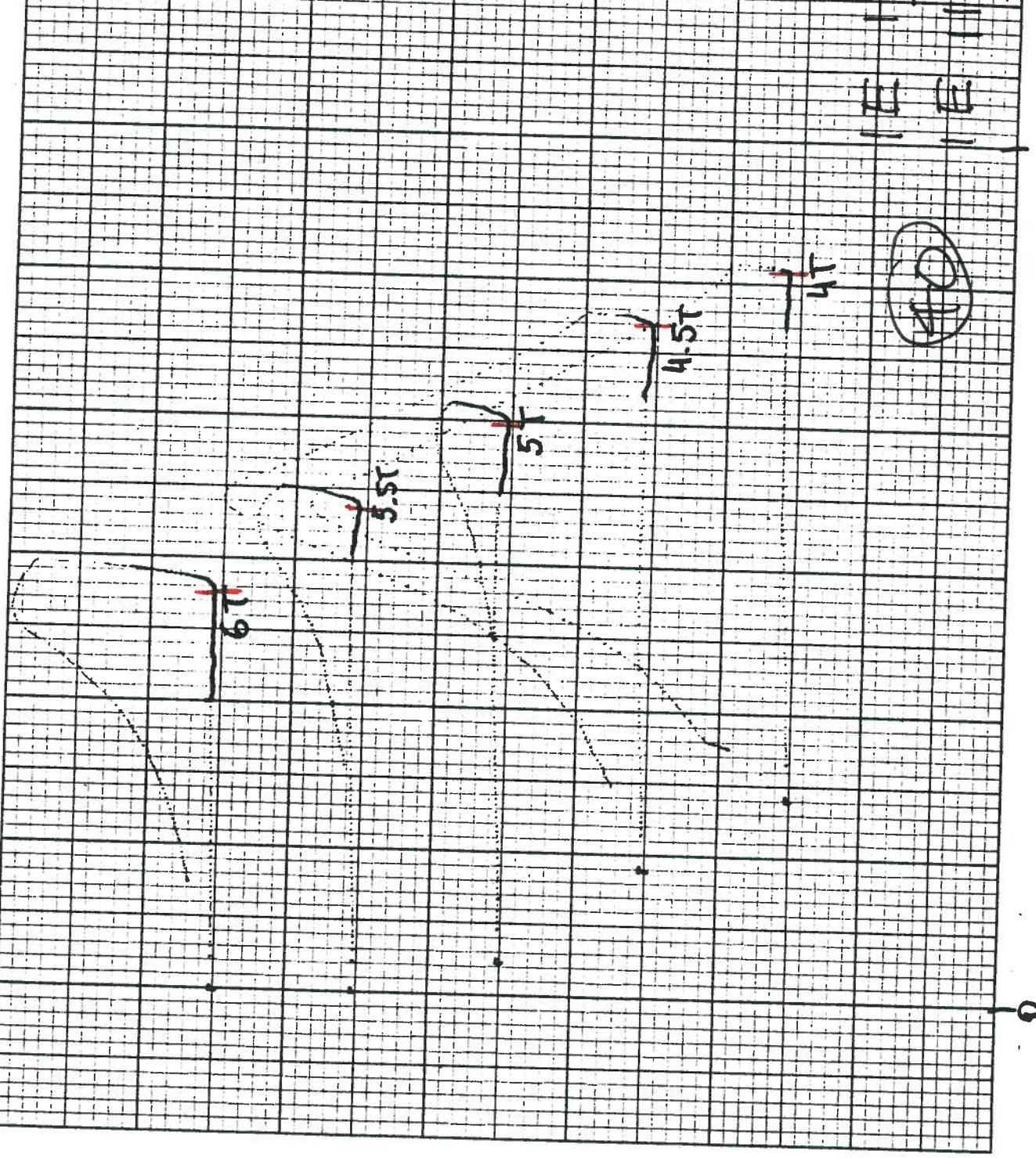
STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.
DATE: March 2 1973
SAMPLE NO. 39 Bot
MATL:
SUPPLIER:
REC. NO.:
TURSCOPE LASS
VERT. UNITS 10mV
HOR. UNITS 500A
REMARKS: □ → B



IB 9-10 (39)

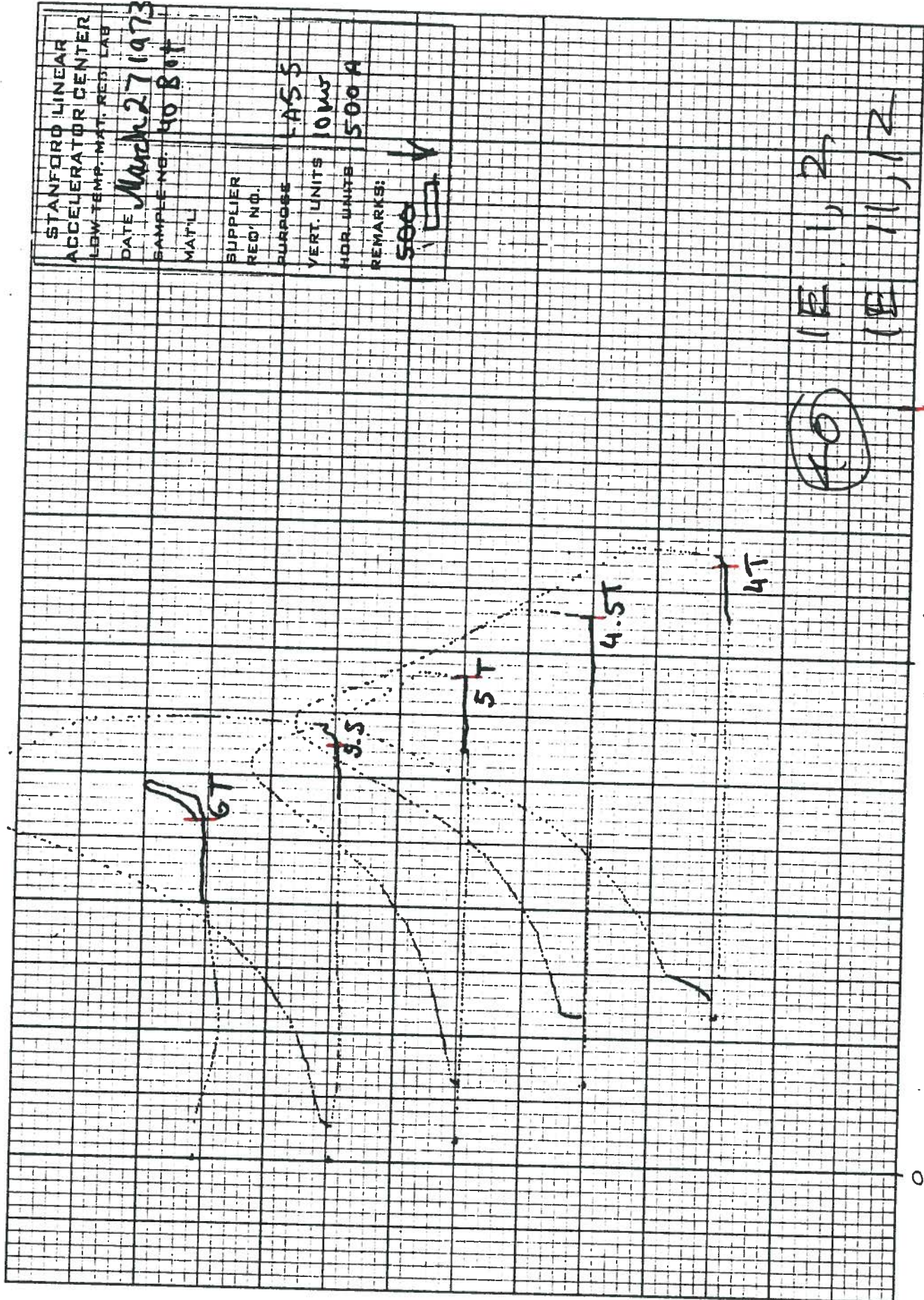
3000

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB
DATE: March 26 1973
SAMPLE NO.: HD TOP
MAT'L:
SUPPLIER:
REQ. NO.:
PURPOSE: LASS
VERT. UNITS: 10 MO
HOR. UNITS: 500A
REMARKS: 



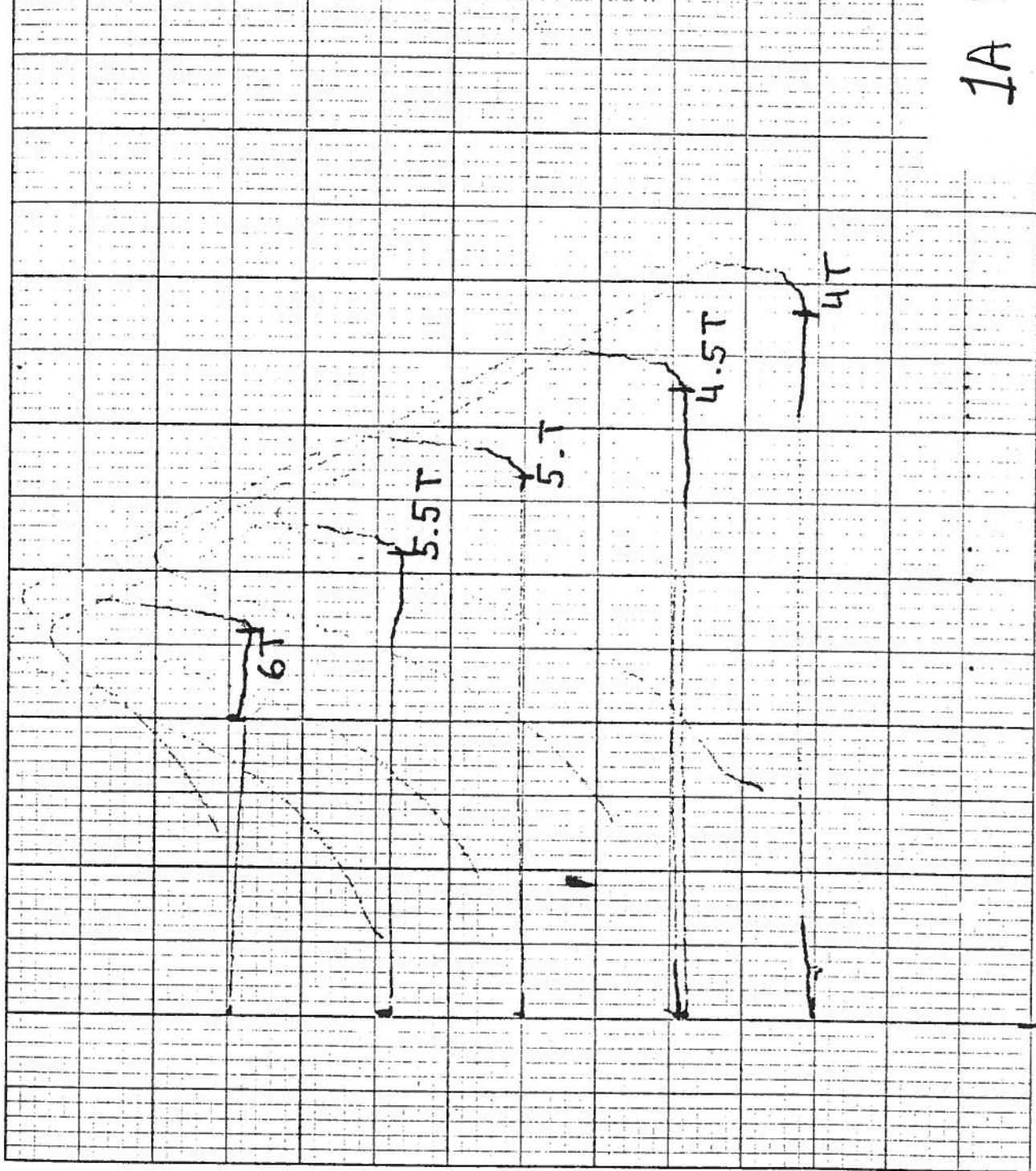
2000A

STANFORD LINEAR ACCELERATOR CENTER LAW TEMP. MAT. RES. LAB	
DATE	March 27 1973
SAMPLE NO.	40 Bot
MAT'L	
SUPPLIER REQ. NO.	
PURPOSE	FASS
VERT. UNITS	10mV
HOR. UNITS	500 A
REMARKS:	see V



(E) 1, 2
 (E) 11, 12

STANFORD LINEAR ACCELERATOR CENTER LOW-TEMP. MAT. RES. LAB
DATE: <i>Apr 2 1963</i>
SAMPLE NO.: <i>4170P</i>
MAT'L:
SUPPLIER:
REQ. NO.:
PURPOSE: <i>LASS</i>
VERT. UNITS: <i>10 μV</i>
HOR. UNITS: <i>SODA</i>
REMARKS: <i>□ ↓ B</i>

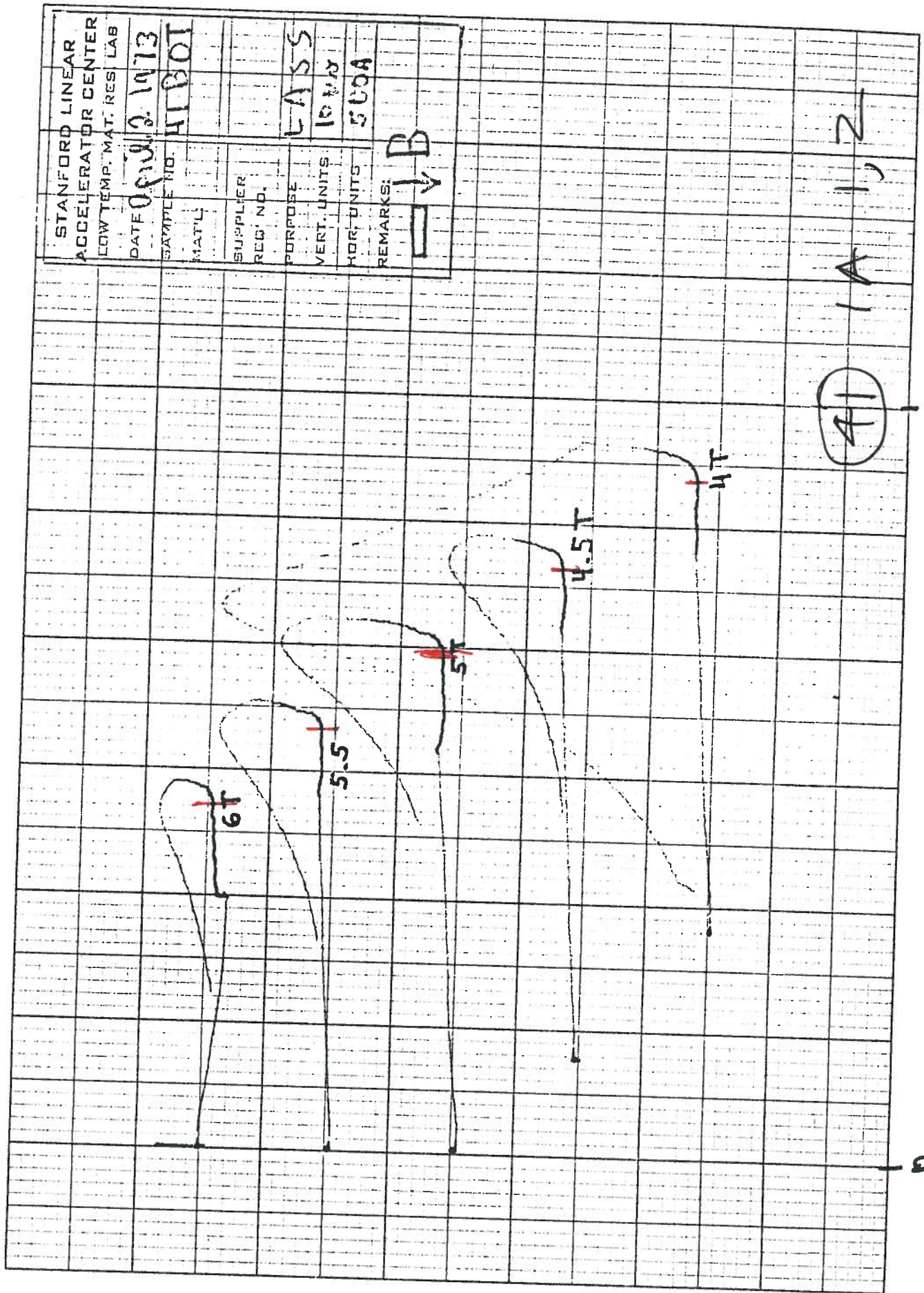


41

1A 1.2

3000A

HEWLETT PACKARD/FISHELEY DIVISION
9:70 1006
FOR USE ON AUTOGRAF RECORDERS
10 UNITS/DIVISION



STANFORD LINEAR ACCELERATOR CENTER
LOW TEMP. MAT. RES. LAB
DATE: 09/02/73
SAMPLE NO. HI BOT
MAT'L
SUPPLIER
REQ. NO.
PURPOSE: LASS
VERT. UNITS: 1000
HOR. UNITS: 500A
REMARKS: $\Rightarrow \uparrow B$

STANFORD LINEAR ACCELERATOR CENTER LOW TEMP. MAT. RES. LAB.	
DATE	MARCH 28 1973
SAMPLE NO.	RE-43 vector
MATL.	
SUPPLIER	
RED. NO.	
PURPOSE	LASS
VERT. UNITS	10 μ m
HOR. UNITS	500A
REMARKS:	