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Sediment Magnetic Data from the Elba Cut, Fullerton Canal, Howard
County, Nebraska: Contributions to Quaternary Paleoclimatic
Studies of Midcontinent Loess Deposits

by

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INTRODUCTION

This paper presents sediment magnetic data from Holocene soil and parent loess material from the Elba Cut of central Nebraska. These data were collected as part of a broader study of the magnetic properties of midcontinent soils and loess. The ultimate objective of this study is to better understand the types, characteristics, and origins of magnetic minerals in midcontinent soils and loess and their possible relations to paleoclimate. The magnetic data presented here are part of a larger study by the U.S. Geological Survey of North American paleoclimates during the last interglacial period.

The Elba Cut, located about 5 km east of Elba, Nebraska, represents a dramatic exposure of Pliocene to Holocene sediments. These sediments were exposed in 1991 when the Fullerton Canal was cut through the divide between North Loup River and Cedar Creek. The exposure is about 305 m long and 19.8 m high. A detailed description of the stratigraphy and age relations of sediments in the Elba Cut is provided by May and others (1995).

METHODS

Sampling

Samples were collected in three separate traverses. The first traverse provided samples from a modern soil profile developed on the Peoria Loess. Samples were collected as representative "channel" samples from each of the major soil units (e.g., the A1 horizon, the BK2 horizon, etc.). Each sample was collected from material over the depth range of the exposed horizon. Similarly, a profile of "bulk" samples was collected from the thick exposure of Pliocene and Holocene sediments in the Elba Cut. In this traverse representative samples of all major units were collected (e.g., samples of Peoria Loess, Sangamon soils, Gilman Canyon soil, etc.). Finally, a detailed collection of samples every 0.05 m was obtained from this same thick section.

For the analysis of magnetic properties such as magnetic susceptibility and laboratory induced magnetizations, splits of the soil and loess samples were packed into plastic cubes that are capable of holding approximately 3.2 cm³ of material. Each sample and cube were weighed, and the average weight of an empty sample holder was subtracted from the gross weight in order to get the true weight of the sample.

Magnetic Susceptibility

A susceptibility meter, operating at a sensitivity better than 10⁻⁵ volume SI at about 600 Hz or 6000 Hz, was used to measure low-frequency (LFMS) and high-frequency (HFMS) magnetic susceptibility of soil and loess samples. In addition, useful magnetic parameters, the frequency dependence of magnetic

susceptibility (FDMS) and the percentage of FDMS (%FDMS), were calculated using the following formulas:

$$\text{FDMS} = (\text{LFMS} - \text{HFMS})$$

and

$$\% \text{FDMS} = [(\text{LFMS} - \text{HFMS}) / \text{LFMS}] * 100.$$

Magnetic susceptibility data are listed in Table 1.

Laboratory Induced Magnetizations

An anhysteretic remanent magnetization was imparted to each sample by placing it in a slowly decaying alternating field with a peak field of 100 mT while it was subjected to a DC bias of 0.1 mT. The ARM was then measured using a high-speed spinner magnetometer operating at 90 Hz. Following the ARM acquisition experiments, an impulse magnetizer was used to impart isothermal remanent magnetizations (IRMs) to each specimen. Each specimen was given an initial IRM in an induction of 1.2 T (i.e., $\text{IRM}_{1.2\text{T}}$), and the resultant magnetization was measured using the spinner magnetometer. Each sample was then given an oppositely directed IRM in an induction of 0.3 T ($\text{IRM}_{0.3\text{T}}$) and the remanence was again measured with the magnetometer. The “hard” isothermal remanent magnetization (HIRM) and the S parameter were then calculated as:

$$\text{HIRM} = (\text{IRM}_{1.2} + \text{IRM}_{0.3}) / 2,$$

$$\text{and } S = -\text{IRM}_{0.3} / \text{IRM}_{1.2},$$

as suggested by King and Channel (1991).

Raw and corrected induced magnetization data and the HIRM and S parameters are listed in Table 1.

Thermomagnetic Determinations

Curie temperatures were determined for magnetic minerals separated from several bulk sediment/soil samples. Separation of the magnetic phases was made by dispersing the soil or loess sample in distilled water, along with a small amount of a surfactant, in an ultrasonic cleaner. The resultant slurry was then pumped past a permanent magnet using a technique similar to that described by Petersen and others (1986). The resultant magnetic separates were rinsed with acetone to remove water and then allowed to dry in air.

Curie temperatures of the soil and loess samples were investigated using two different types of thermomagnetic devices. The first consisted of sensitive

electrobalance similar to that described by Larson and others (1975). In this device, saturation magnetization in an applied field of 0.2 to 0.45 T was measured as a function of temperature. The samples were heated in air up to a maximum temperature of about 660°C (approximately 15°C/min) and then allowed to cool to near room temperature. Each sample consisted of about 0.15 to 0.40 mg of magnetic material separated from the magnetic separate using a hand magnet. Thermomagnetic curves obtained using the Curie balance are given in Figure 1.

The second device used in the thermomagnetic experiments measured magnetic susceptibility as a function of temperature. In this device, the magnetic separate was placed in dry Al_2O_3 powder and placed in a quartz tube. A platinum temperature sensor was then inserted into the tube such that the end of the sensor was nearly in contact with the magnetic separate. The sample was then heated in a series of steps to a peak temperature of 630 to 660°C and then cooled. Magnetic susceptibility was measured approximately every 3°C by inserting the furnace assembly into a coil and switching off the furnace current. Thermomagnetic experiments were performed both in an atmospheric environment and by allowing a low flow (approximately 0.05 liters/min) of argon to pass over the sample. The magnetic susceptibility of all samples were corrected for the diamagnetic susceptibility of the SiO_2 tube and Al_2O_3 powder by subtracting the average susceptibility of a "blank" sample consisting of a tube containing an approximately equivalent amount of Al_2O_3 to that used in each experiment.

Experiments at the U.S. Geological Survey sediment magnetism laboratory (Denver) have shown that the Curie temperature of individual samples determined using this device, held in a constant position from experiment to experiment, are reproducible to about 1 to 2°C (assuming no significant phase changes during the experiments). The presence of temperature gradients in the furnace system and inherent uncertainties in the position of samples in individual heating experiments, however, indicates that the uncertainty in the determination of Curie temperatures for individual samples is probably on the order of 4 to 5°C (one standard deviation). Thermomagnetic curves of magnetic susceptibility vs. temperature are shown in Figure 2; analytical data obtained during these experiments are listed in Table 2.

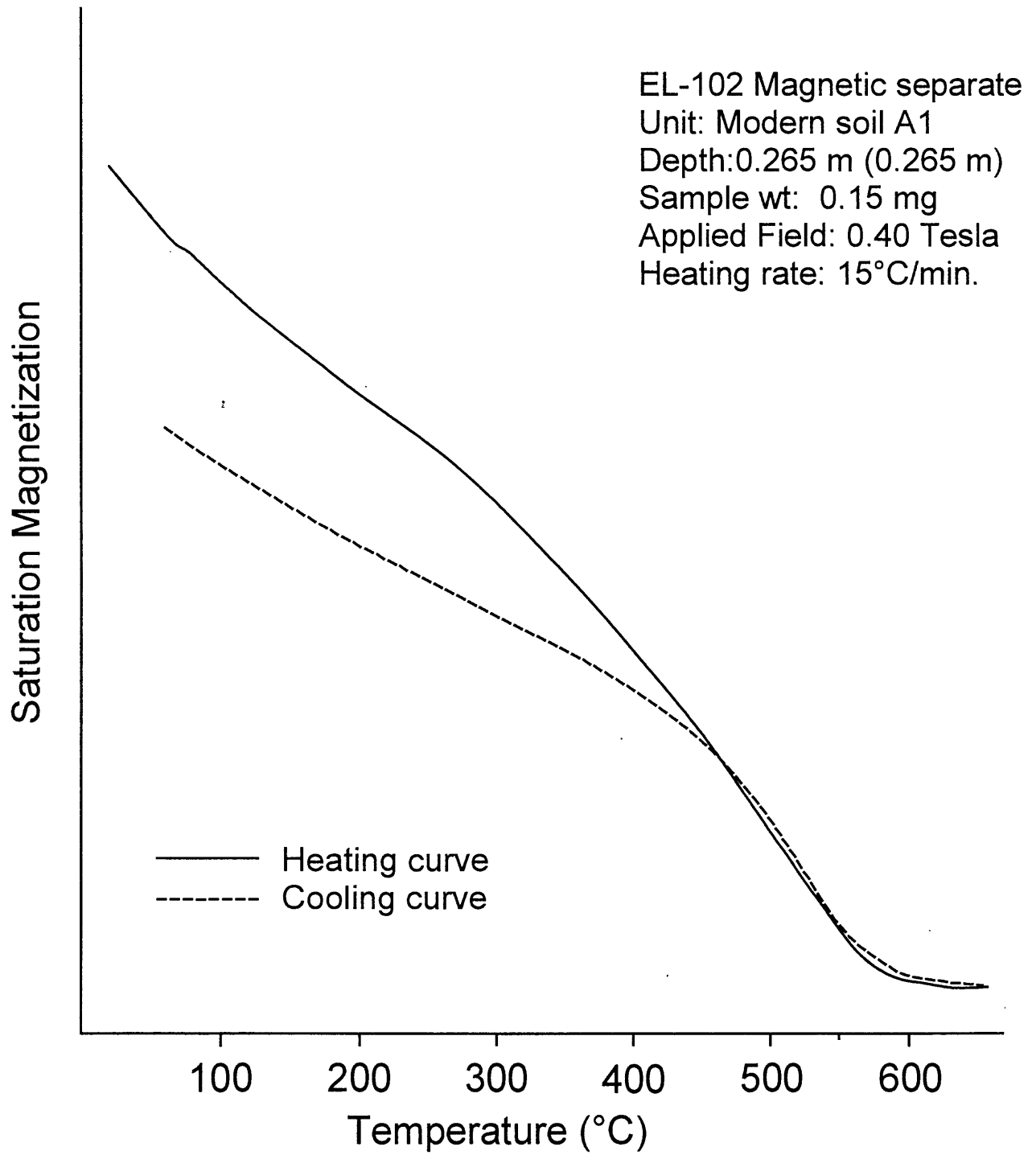
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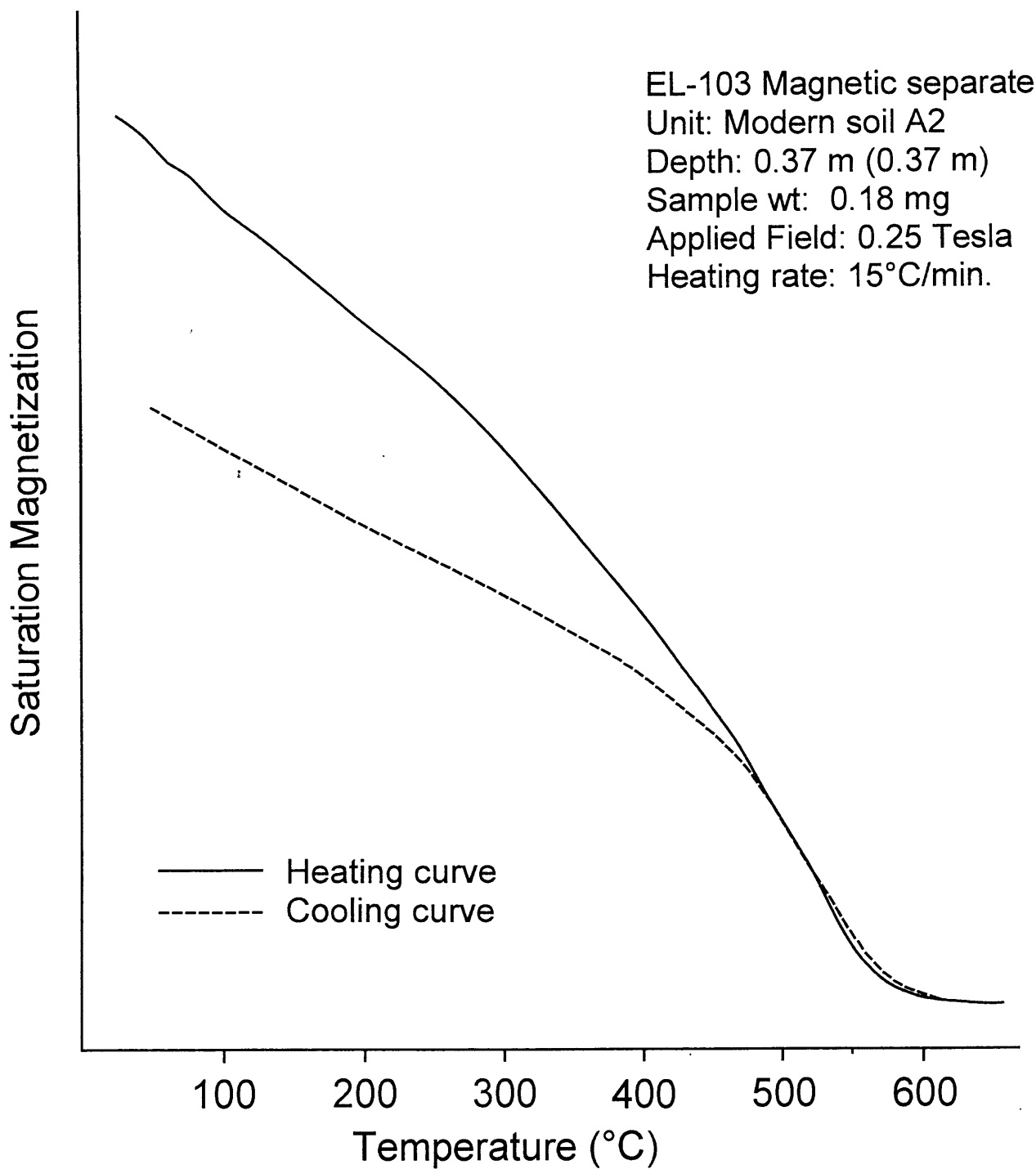
We thank Richard L. Reynolds for a careful review of this manuscript.

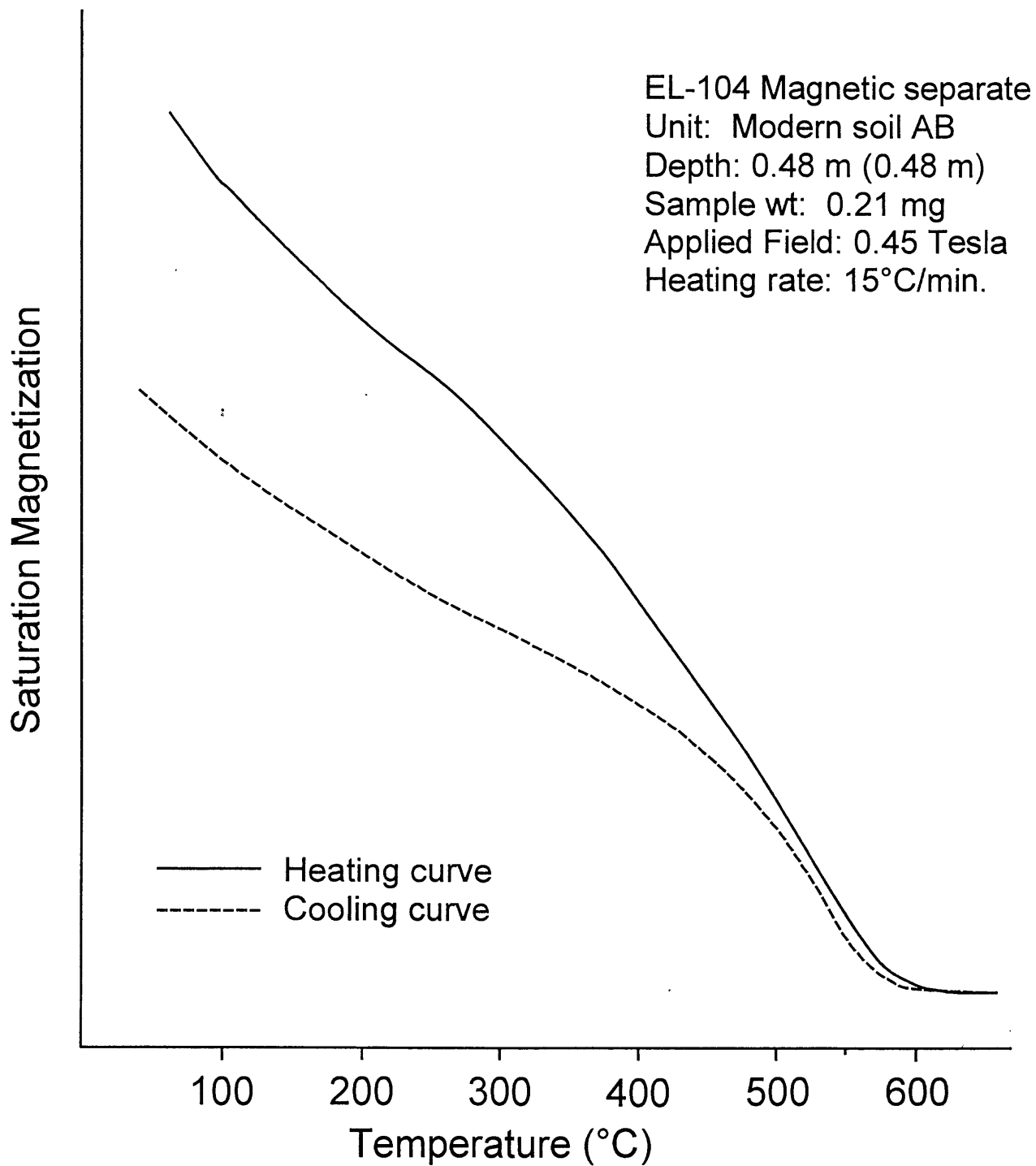
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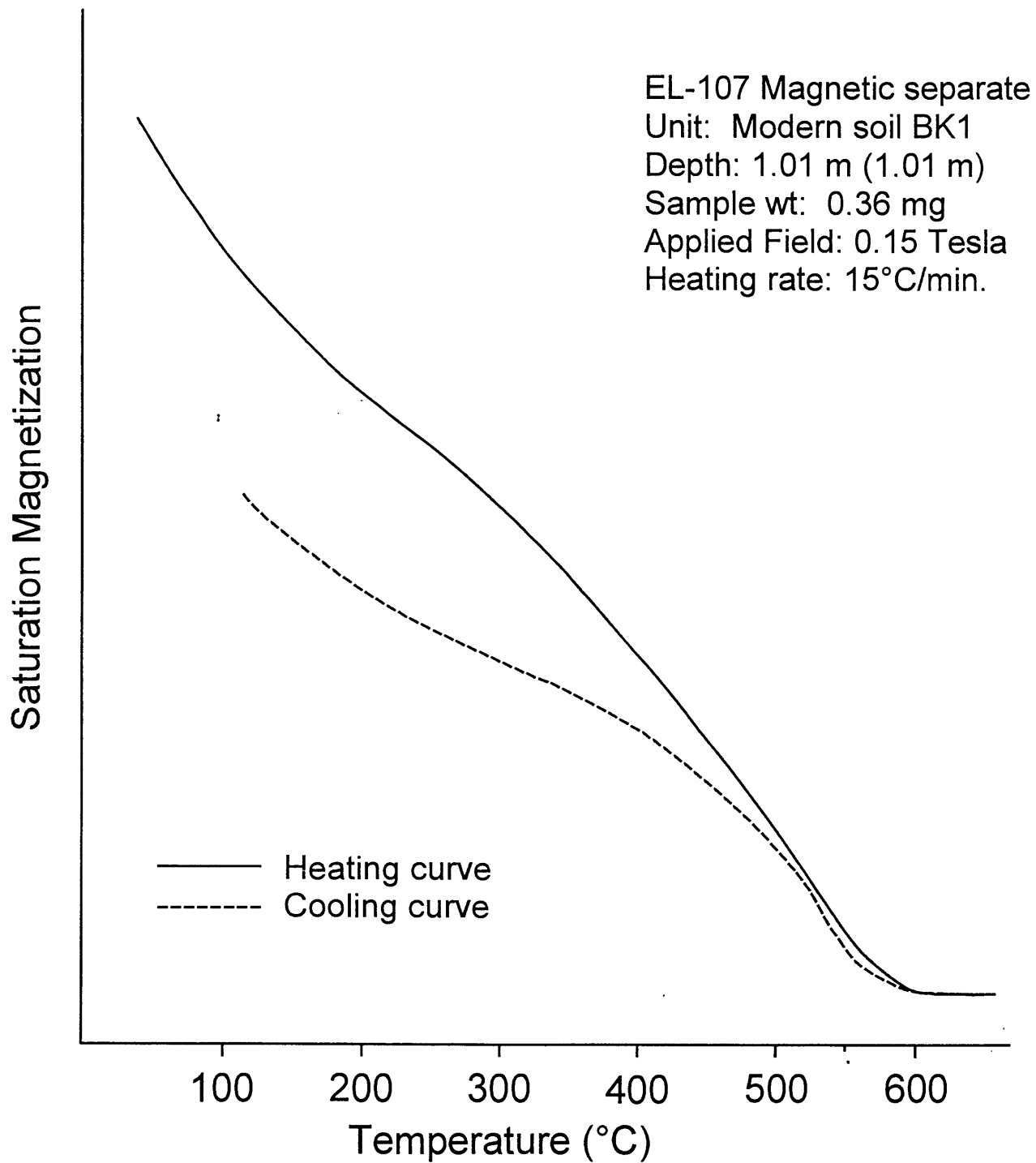
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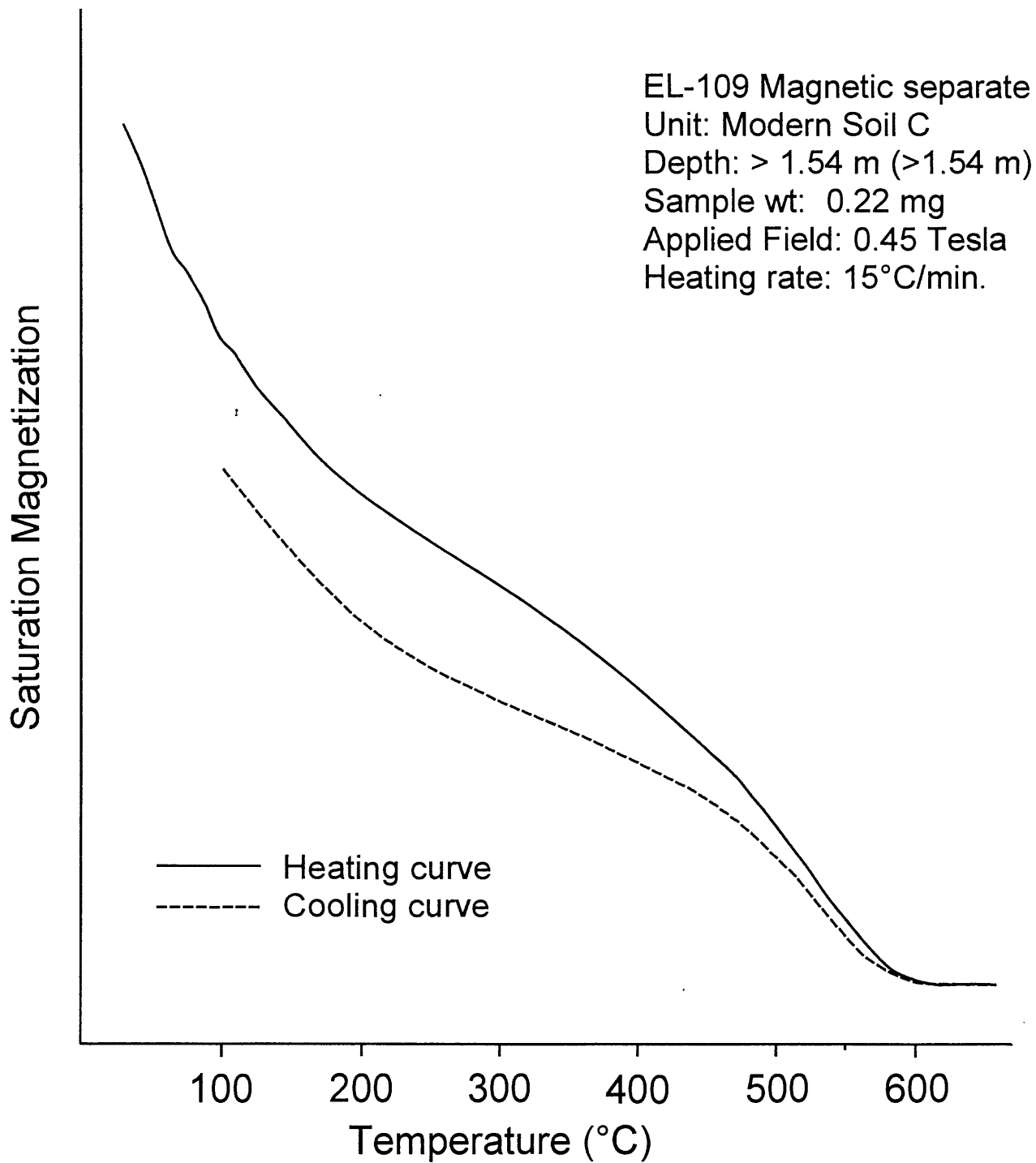
Figure 1. Thermomagnetic curves of saturation magnetization vs. temperature for magnetic separates of soil and loess samples from the Elba Cut. For each sample the sample depth given is the true depth of the sample midpoint in the original section, whereas that given in parentheses is the corrected depth of the sample midpoint in the entire composite section. All thermomagnetic determinations were made in air.

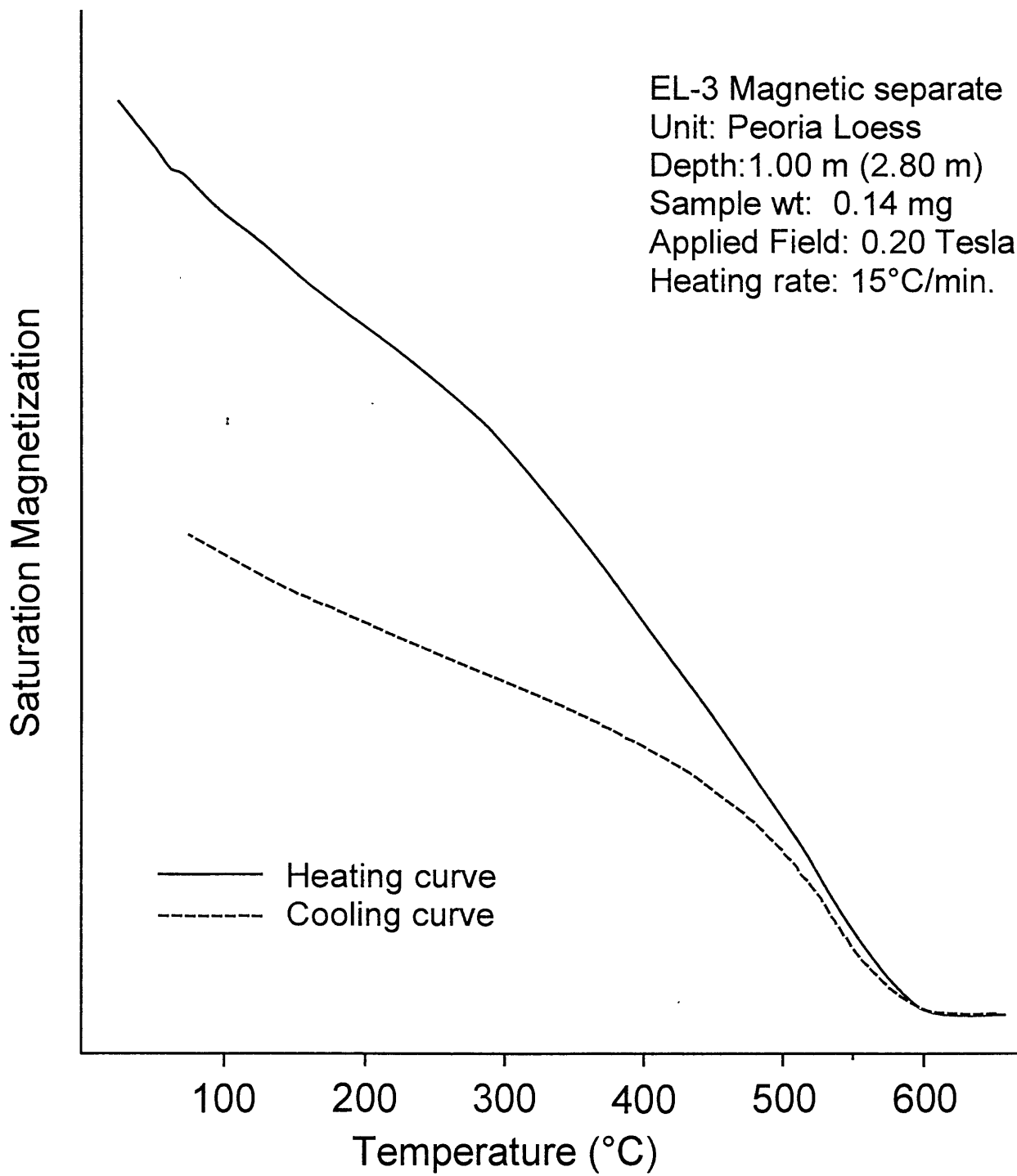


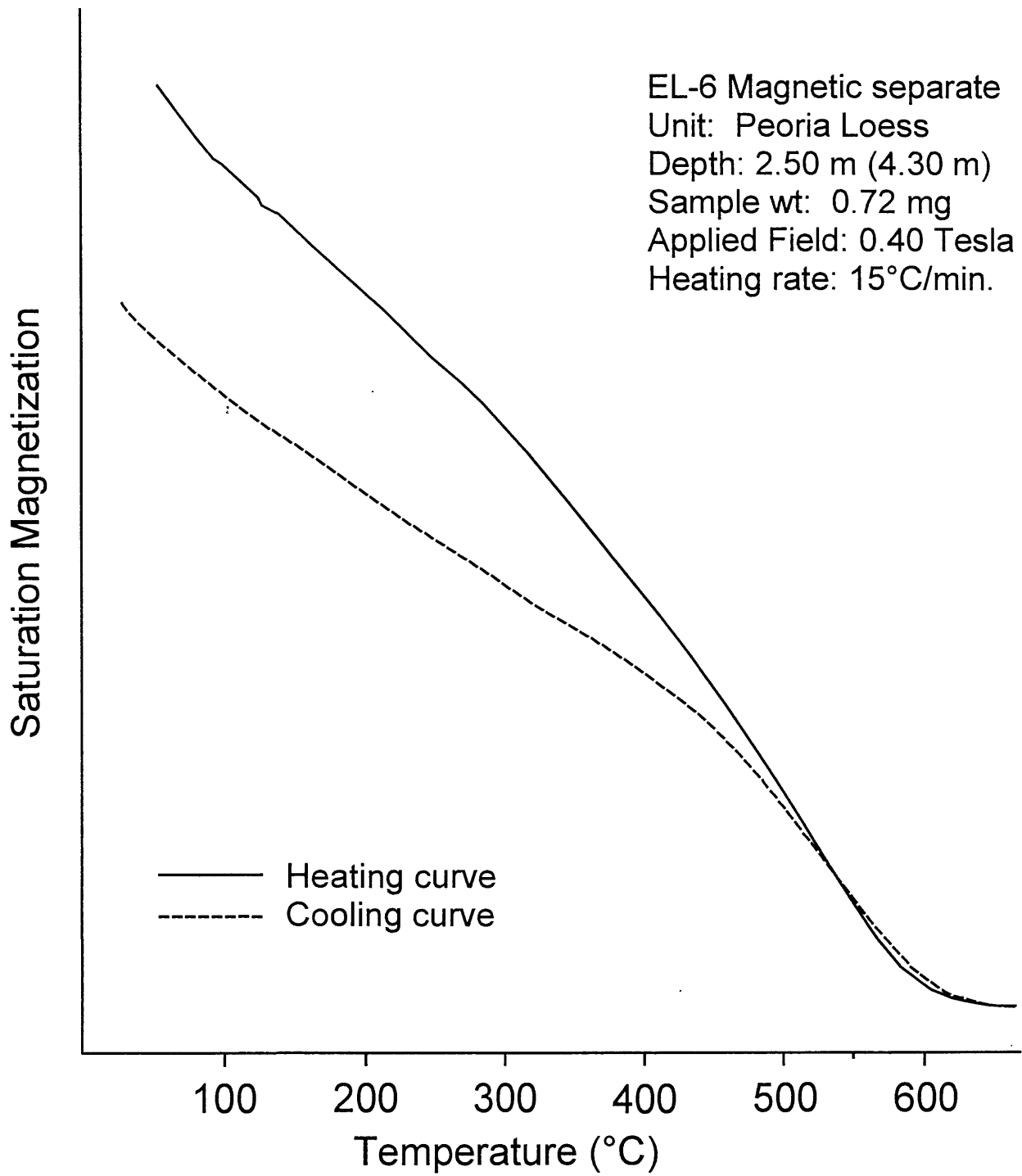


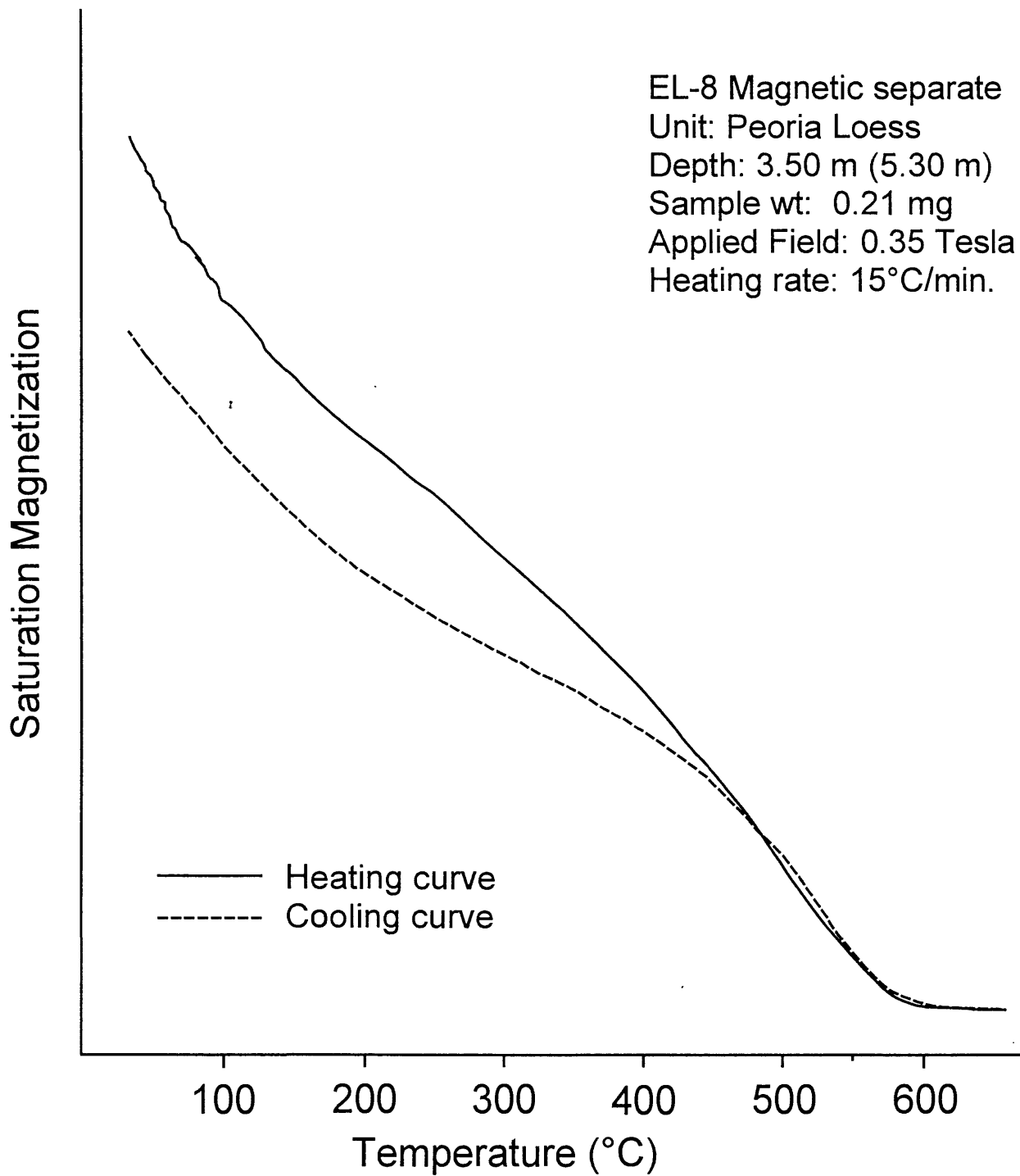


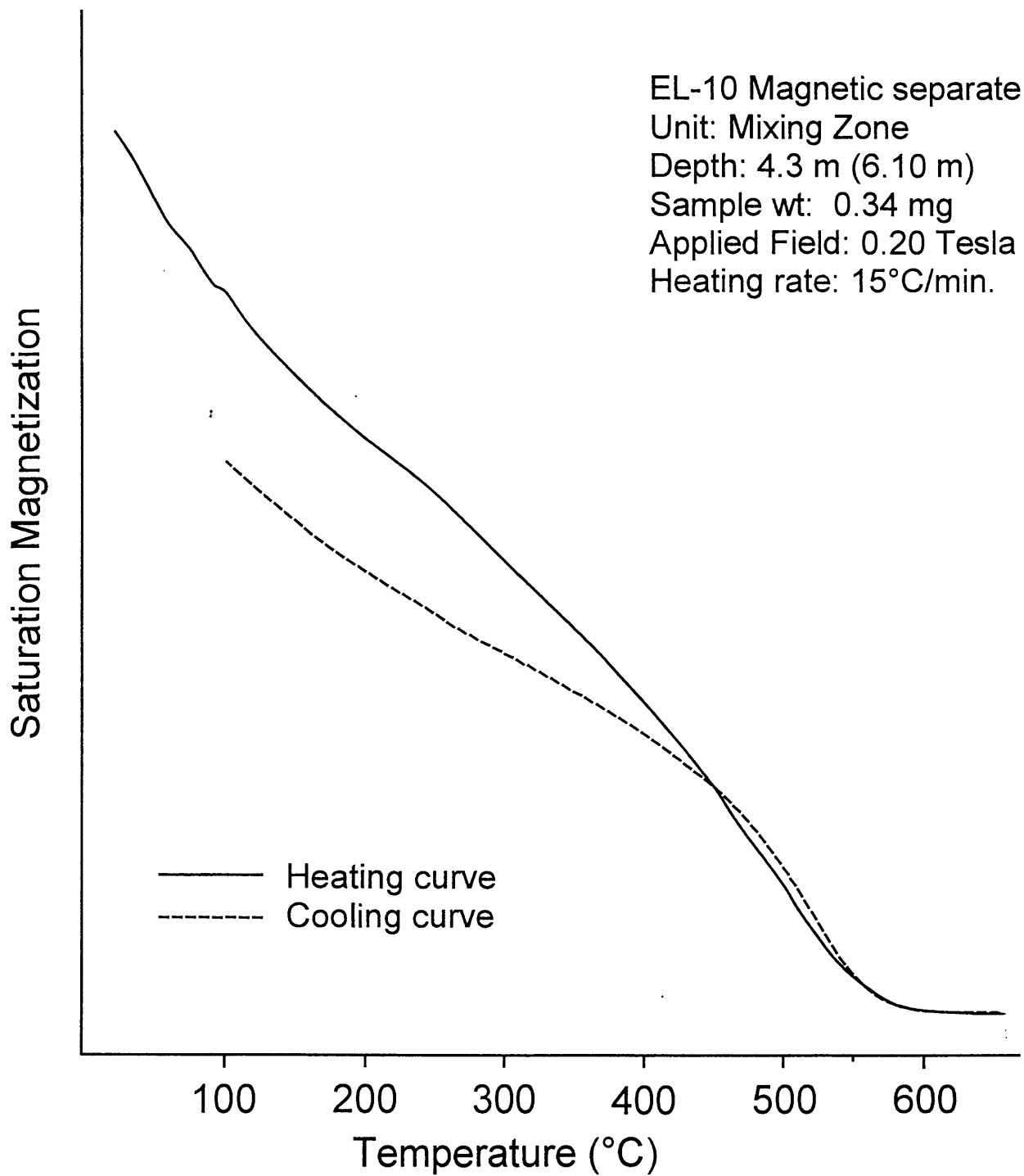


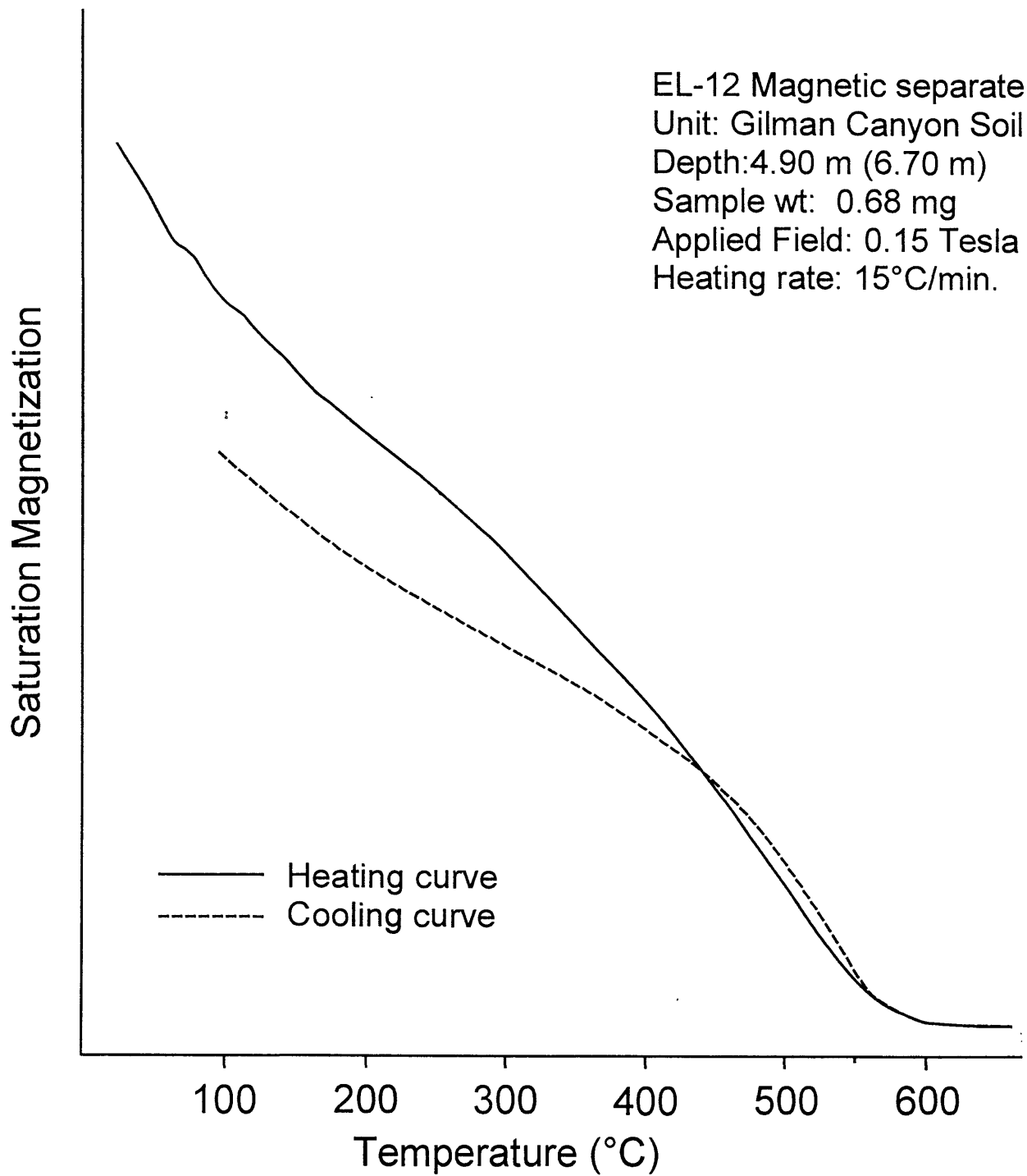


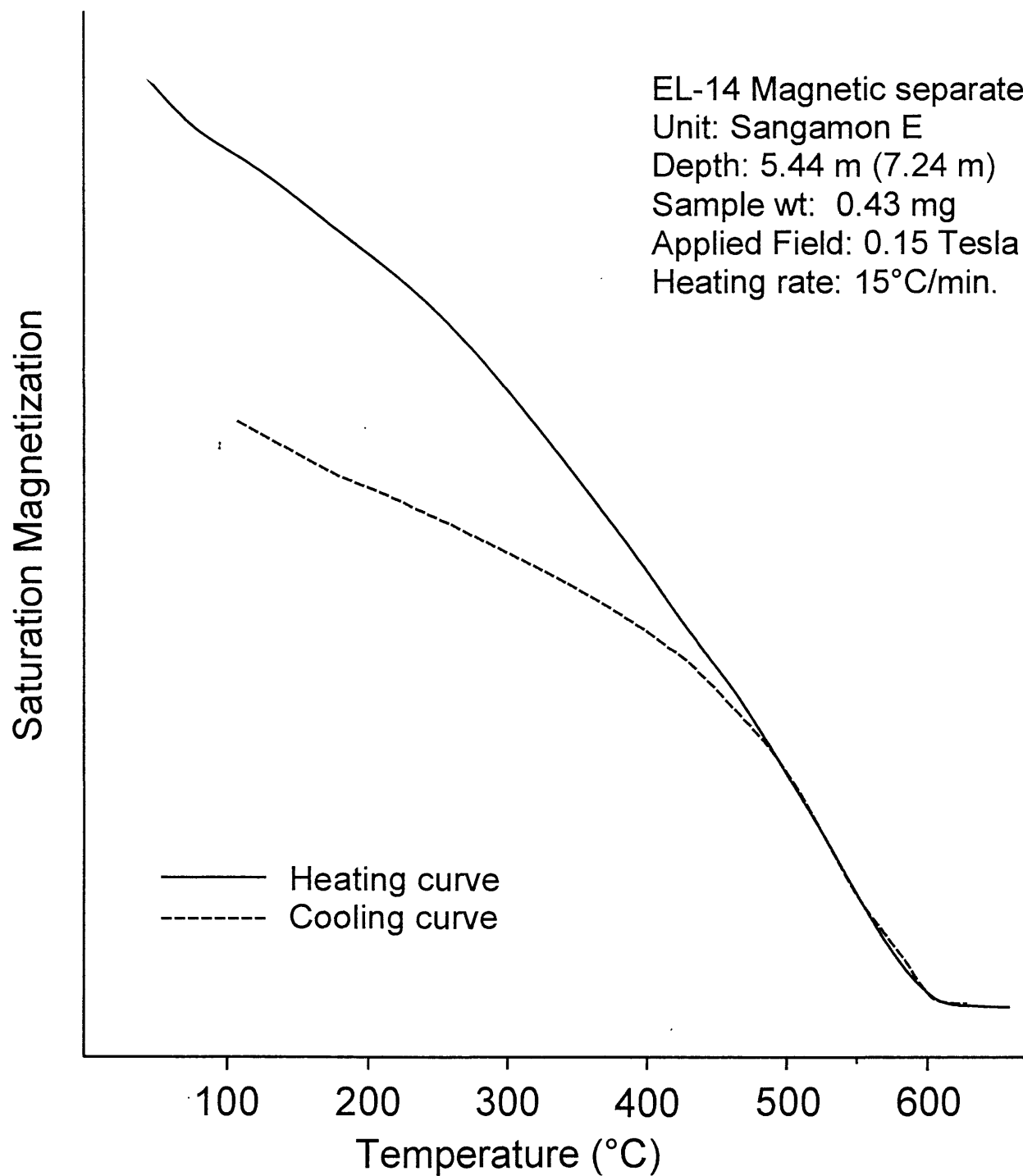


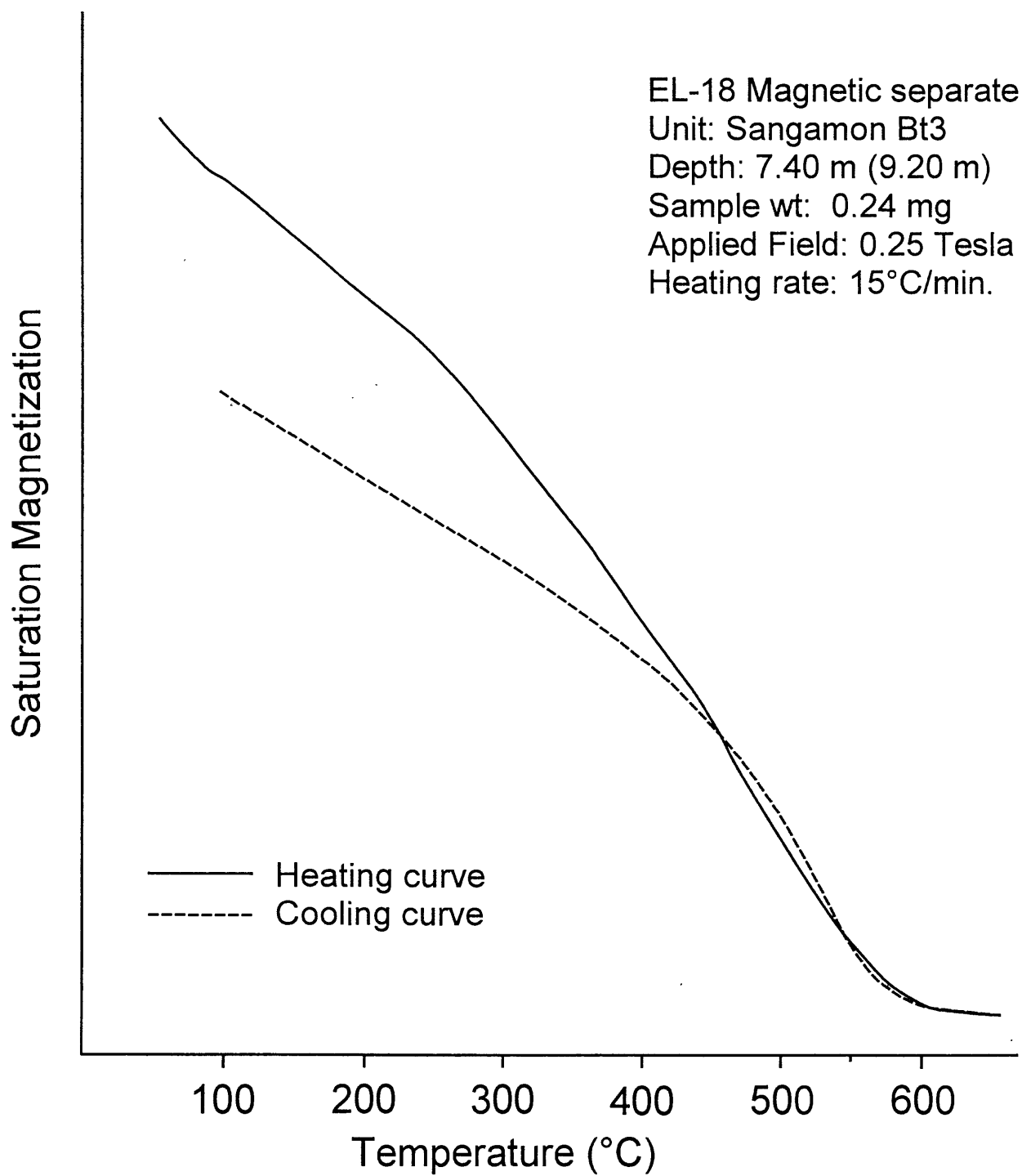












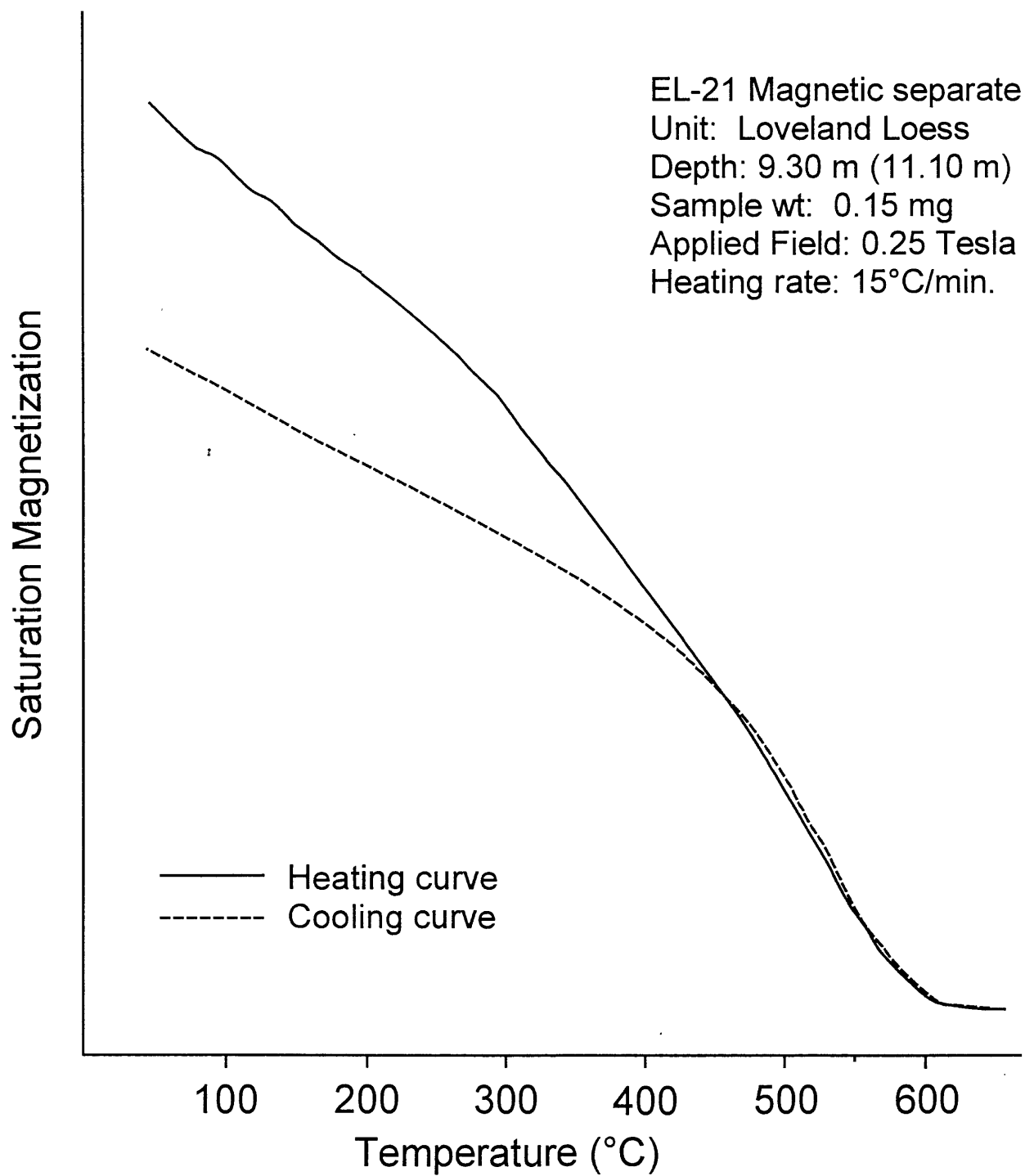
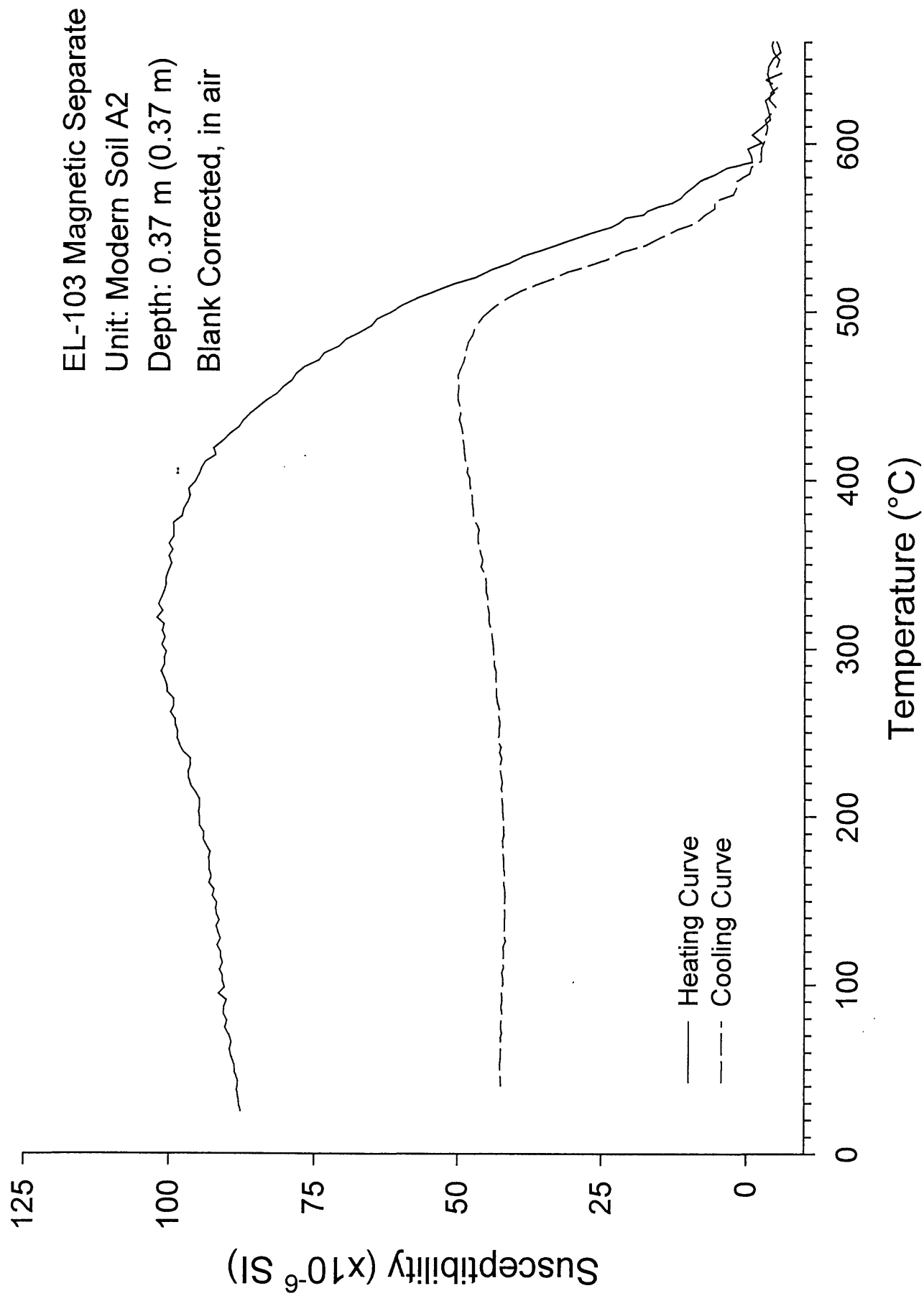
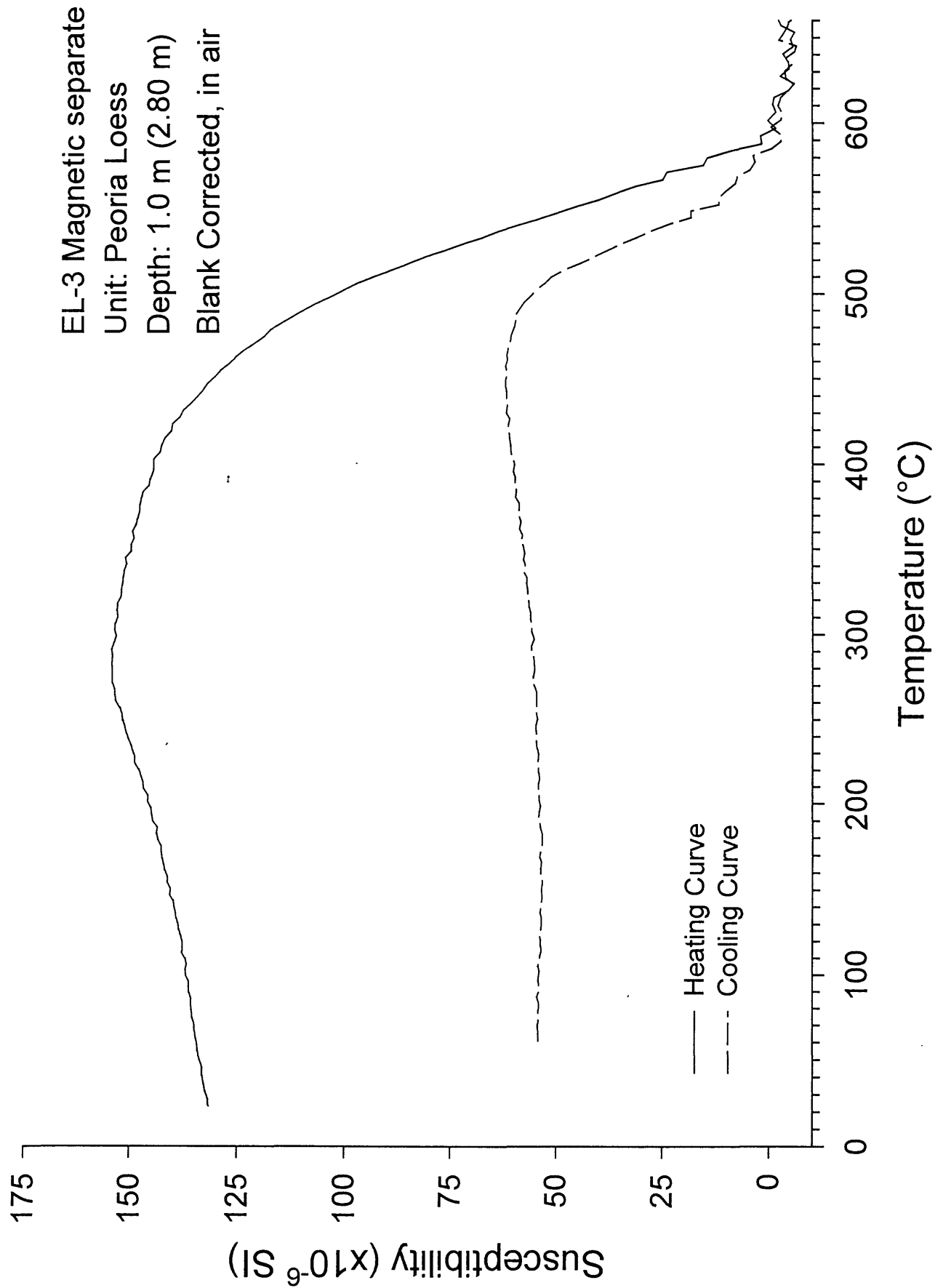
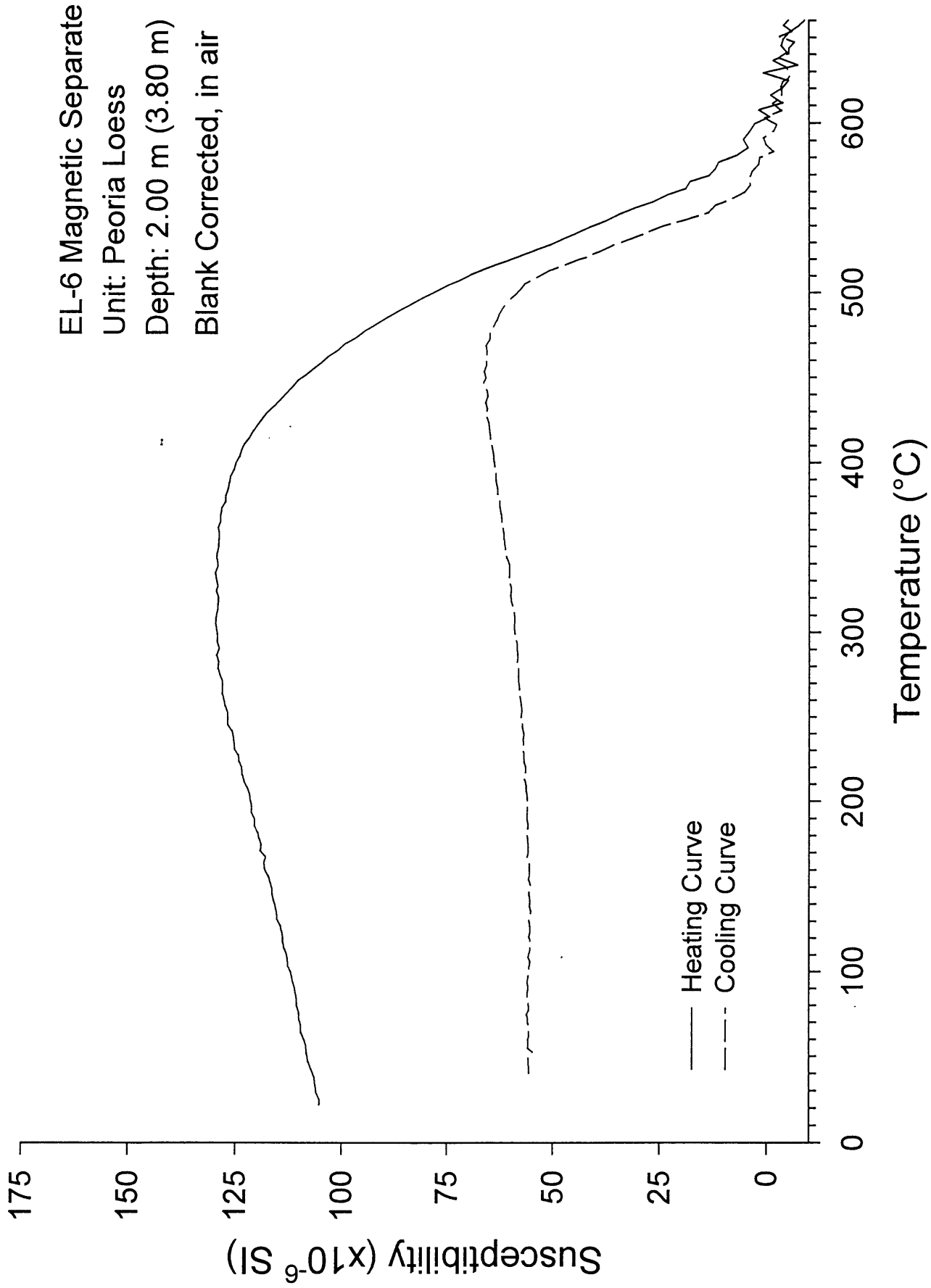
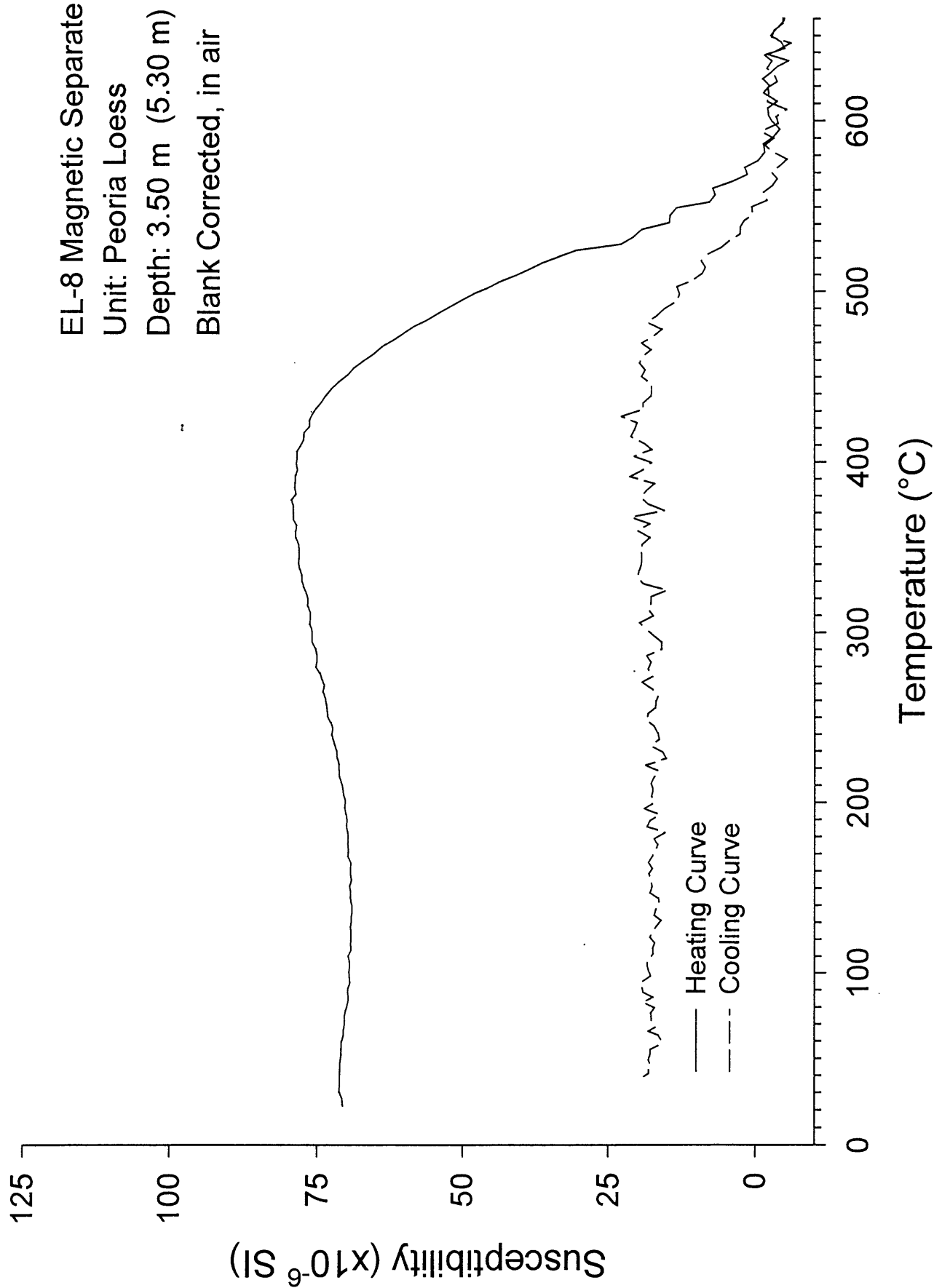


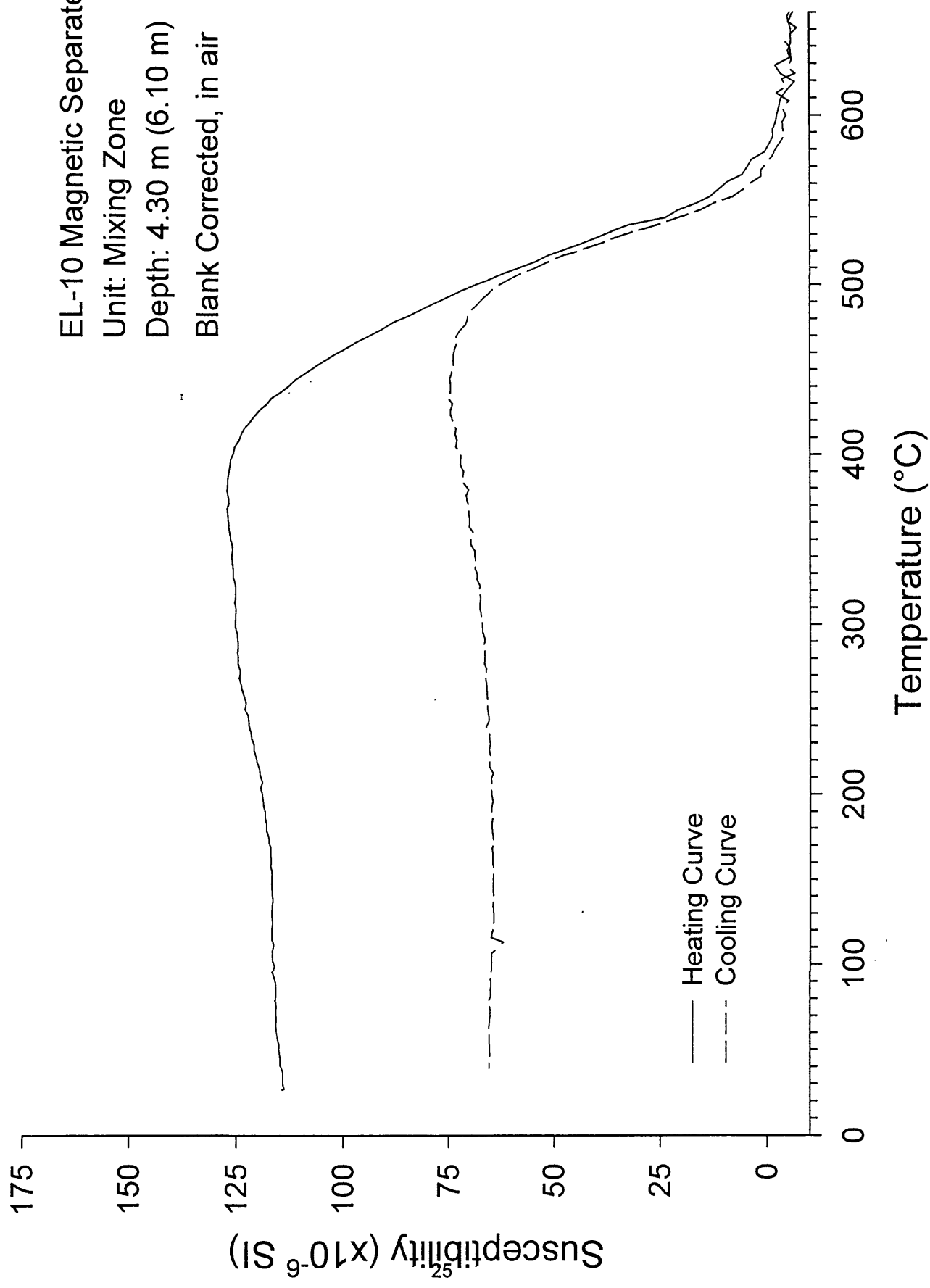
Figure 2. Thermomagnetic curves of magnetic susceptibility vs. temperature for magnetic separates of soil and loess samples from the Elba Cut. Thermomagnetic experiments were either conducted in air or in a flowing argon environment as specified on each plot. Depth measurements as in Fig. 1.

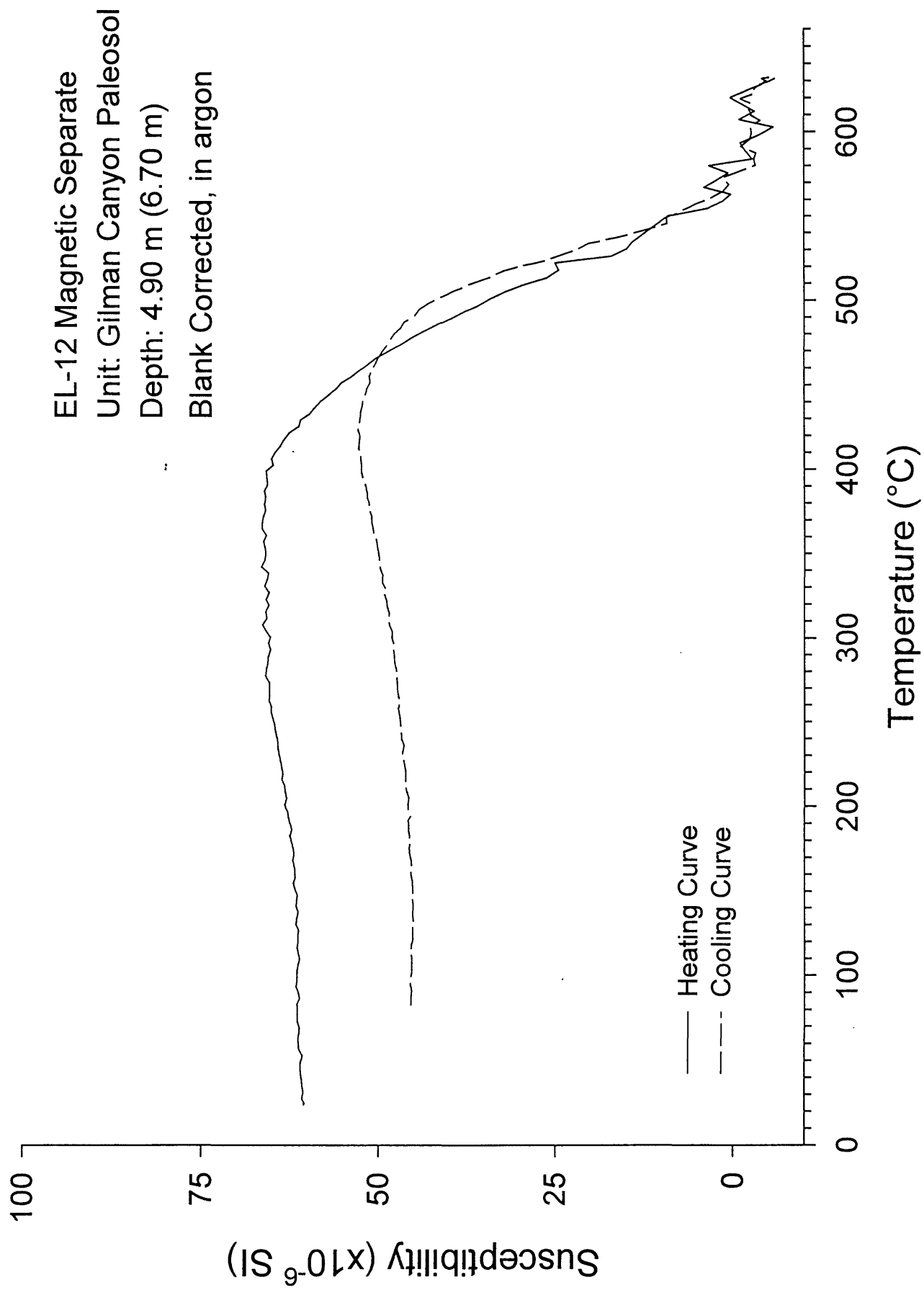


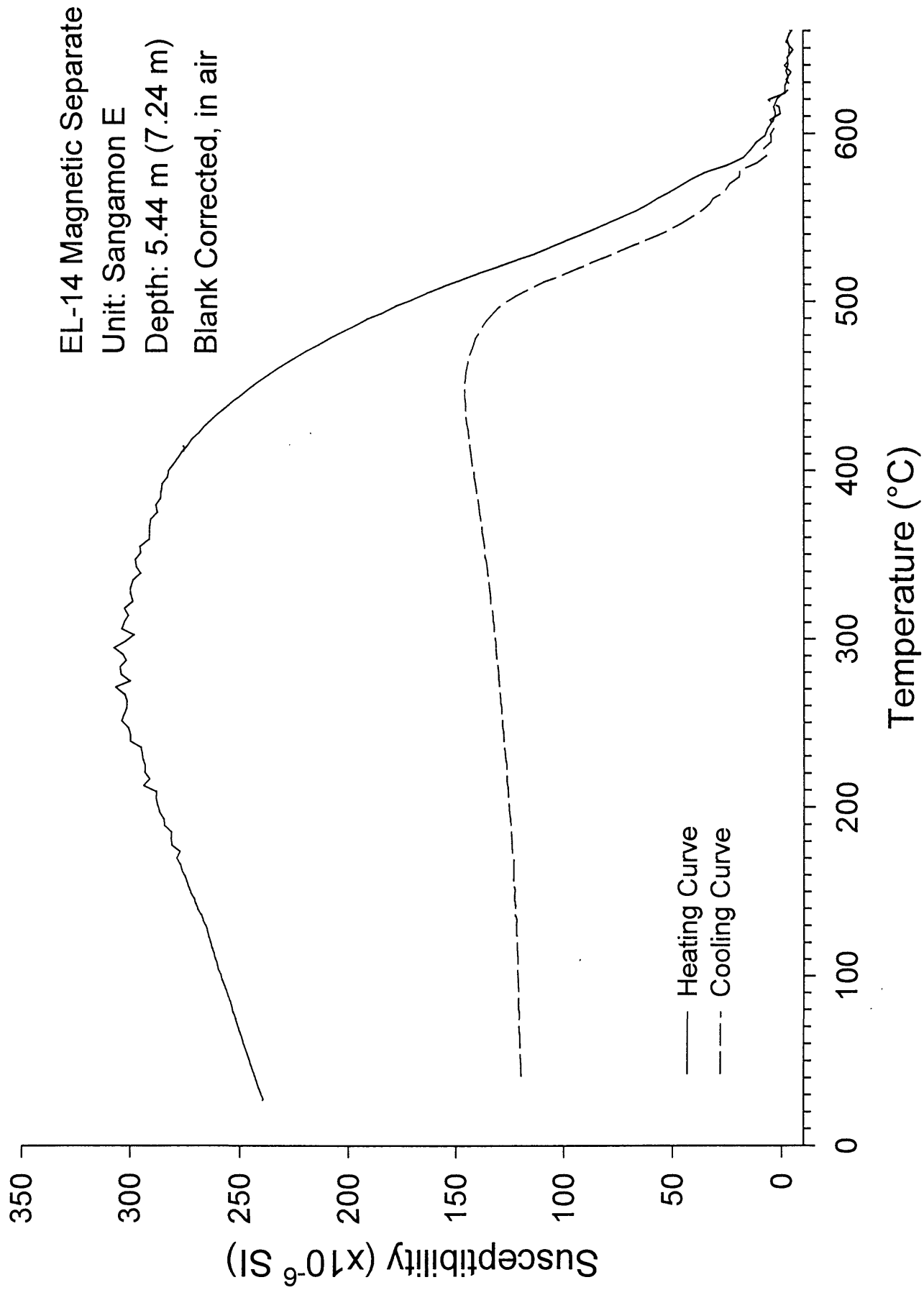


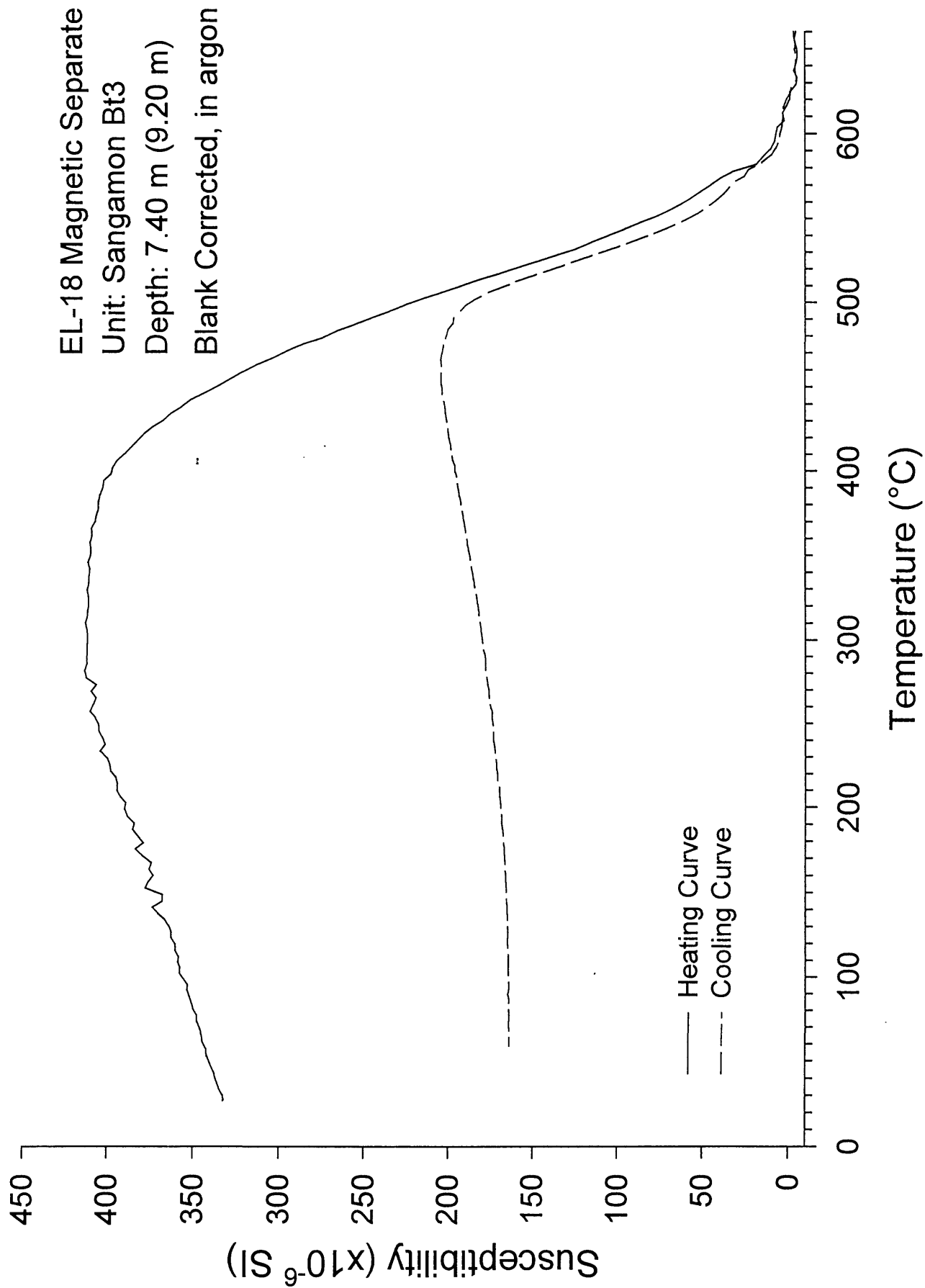












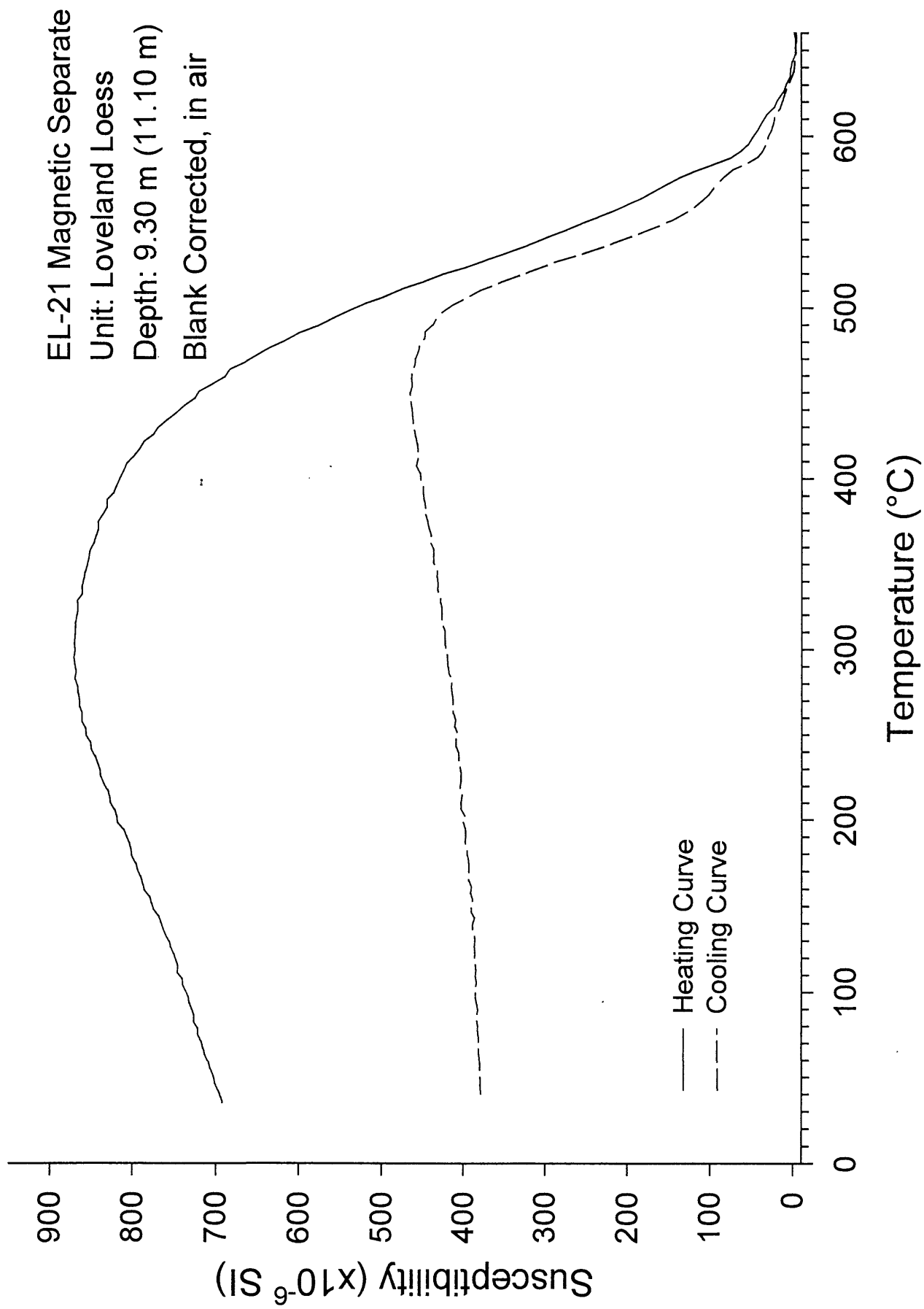


Table 1. Sediment Magnetic Data from the Elba Cut, Fullerton Canal, Howard County, Nebraska.

Sample No: A unique number assigned to loess and/or sediment samples that are placed in approximately 3.2 cm³ plastic boxes.

Unit: The lithologic unit from which the sample was derived.

Depth (m): The original depth in the section from which the sample was obtained. In general, this number represents the midpoint of the interval over which the sample was collected.

Com. Depth (m): The depth obtained after combining the Elba Modern soil with the other two sampling profiles. Because there is a break in section, the composite depth for the loess sections was calculated by arbitrarily adding 1.8 m to the true sampling depth for both the detailed section and the “bulk” section.

Mass (g): Sample mass after correction for weight of the empty sample box.

LFMS (m³/kg): the low frequency magnetic susceptibility obtained by multiplying the LFMS (emu/g) by $4\pi/1000$ to obtain units of m³/kg.

HFMS (m³/kg): the high frequency magnetic susceptibility (in m³/kg) obtained by multiplying the HFMS (emu/g) by $4\pi/1000$ to obtain units of m³/kg.

FDMS (m³/kg): Frequency dependent magnetic susceptibility = LFMS-HFMS in units of m³/kg.

%FDMS: The percent frequency dependent magnetic susceptibility = $[(\text{LFMS} - \text{HFMS})/\text{LFMS}] \times 100$.

ARM (Am²/kg): the raw moment of the anhysteretic remanent magnetization divided by the sample mass to obtain units of Am²/kg.

IRM 1.2T (Am²/kg): the raw moment of the isothermal remanent magnetization acquired in an induction of 1.2 T, divided by the sample mass to obtain units of Am²/kg.

IRM-0.3T (Am²/kg): the raw moment of the isothermal remanent magnetization acquired after first exposing the sample to an induction of 1.2 T, followed by the application of an oppositely directed induction of 0.3T. The moment of the IRM has been divided by the sample mass to obtain units of Am²/kg.

HIRM: the “hard” isothermal remanent magnetization obtained by the formula: $(\text{IRM}_{1.2\text{T}} + \text{IRM}_{-0.3\text{T}})/2$, in units of Am²/kg.

S: the S parameter defined as: $-IRM_{0.3T}/IRM_{1.2T}$ (dimensionless).

ARM/MS: The ratio of the anhysteretic remanent magnetization divided by the low frequency magnetic susceptibility, in A/m

SIRM/MS: the ratio of the isothermal remanent magnetization at 1.2T divided by the low frequency magnetic susceptibility, in A/m.

MS/SIRM: the inverse of the SIRM/MS, in m/A.

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	Unit	Depth (m)	Com. Depth (m)	Mass (g)	LFMS (m3/kg)
Elba Modern Soil					
EL-101	Ap Modern Soil	0.10	0.10	4.5110	8.3299E-07
EL-102	A1 Modern soil	0.27	0.27	4.4720	7.9172E-07
EL-103	A2 Modern soil	0.37	0.37	4.5843	6.1704E-07
EL-104	AB Modern soil	0.48	0.48	4.8060	4.3470E-07
EL-105	Bt1 Modern soil	0.65	0.65	4.6780	3.3664E-07
EL-106	Bt2 Modern soil	0.83	0.83	4.6890	3.3106E-07
EL-107	Bk1 Modern soil	1.01	1.01	4.7860	3.0631E-07
EL-108	Bk2 Modern soil	1.32	1.32	4.8230	3.2379E-07
EL-109	C Modern soil	1.60	1.60	4.7870	1.6038E-07
Break In Section					
Detailed Section					
ELM-0.15	C Modern soil	0.15	1.95	4.2970	4.3042E-07
ELM-0.20	Peoria Loess (?)	0.20	2.00	4.3780	4.2467E-07
ELM-0.25	Peoria Loess (?)	0.25	2.05	4.3510	3.9637E-07
ELM-0.30	Peoria Loess (?)	0.30	2.10	4.4320	4.0798E-07
ELM-0.35	Peoria Loess (?)	0.35	2.15	4.5560	3.4508E-07
ELM-0.40	Peoria Loess	0.40	2.20	4.3610	3.4674E-07
ELM-0.45	Peoria Loess	0.45	2.25	4.2900	3.4814E-07
ELM-0.50	Peoria Loess	0.50	2.30	4.2780	3.4809E-07
ELM-0.55	Peoria Loess	0.55	2.35	4.3910	3.6597E-07
ELM-0.60	Peoria Loess	0.60	2.40	4.3010	3.9522E-07
ELM-0.65	Peoria Loess	0.65	2.45	4.3980	3.7539E-07
ELM-0.70	Peoria Loess	0.70	2.50	4.2030	3.7780E-07
ELM-0.75	Peoria Loess	0.75	2.55	4.3400	3.6081E-07
ELM-0.80	Peoria Loess	0.80	2.60	4.3160	3.8171E-07
ELM-0.85	Peoria Loess	0.85	2.65	4.3550	4.3130E-07
ELM-0.90	Peoria Loess	0.90	2.70	4.4090	4.5745E-07
ELM-0.95	Peoria Loess	0.95	2.75	4.3640	4.5016E-07
ELM-1.00	Peoria Loess	1.00	2.80	4.3140	4.5756E-07
ELM-1.05	Peoria Loess	1.05	2.85	4.3980	3.6376E-07
ELM-1.10	Peoria Loess	1.10	2.90	4.3490	3.4896E-07
ELM-1.15	Peoria Loess	1.15	2.95	4.3210	3.4276E-07
ELM-1.20	Peoria Loess	1.20	3.00	4.5040	3.4365E-07
ELM-1.25	Peoria Loess	1.25	3.05	4.3700	3.5752E-07
ELM-1.30	Peoria Loess	1.30	3.10	4.2420	3.3691E-07
ELM-1.35	Peoria Loess	1.35	3.15	4.2420	3.2349E-07
ELM-1.40	Peoria Loess	1.40	3.20	4.1690	3.7726E-07
ELM-1.45	Peoria Loess	1.45	3.25	4.2390	4.1159E-07
ELM-1.50	Peoria Loess	1.50	3.30	4.3400	4.1038E-07
ELM-1.55	Peoria Loess	1.55	3.35	4.1860	4.2676E-07
ELM-1.60	Peoria Loess	1.60	3.40	4.1550	4.2184E-07
ELM-1.65	Peoria Loess	1.65	3.45	4.0050	4.3585E-07
ELM-1.70	Peoria Loess	1.70	3.50	4.2250	4.4831E-07
ELM-1.75	Peoria Loess	1.75	3.55	4.1820	4.5824E-07
ELM-1.80	Peoria Loess	1.80	3.60	4.3980	4.3831E-07
ELM-1.85	Peoria Loess	1.85	3.65	4.3110	4.3372E-07
ELM-1.90	Peoria Loess	1.90	3.70	4.2030	4.5404E-07
ELM-1.95	Peoria Loess	1.95	3.75	4.3030	4.7696E-07

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	Unit	Depth (m)	Com. Depth (m)	Mass (g)	LFMS (m3/kg)
ELM-2.00	Peoria Loess	2.00	3.80	4.2500	3.8107E-07
ELM-2.05	Peoria Loess	2.05	3.85	4.1590	4.8371E-07
ELM-2.10	Peoria Loess	2.10	3.90	4.2510	4.8379E-07
ELM-2.15	Peoria Loess	2.15	3.95	4.1080	4.9250E-07
ELM-2.20	Peoria Loess	2.20	4.00	4.1860	5.0524E-07
ELM-2.25	Peoria Loess	2.25	4.05	4.2160	4.9482E-07
ELM-2.30	Peoria Loess	2.30	4.10	4.3060	4.9186E-07
ELM-2.35	Peoria Loess	2.35	4.15	4.2080	4.7112E-07
ELM-2.40	Peoria Loess	2.40	4.20	4.1710	5.0802E-07
ELM-2.45	Peoria Loess	2.45	4.25	4.2120	5.0928E-07
ELM-2.50	Peoria Loess	2.50	4.30	4.1640	4.7314E-07
ELM-2.55	Peoria Loess	2.55	4.35	4.3190	4.5287E-07
ELM-2.60	Peoria Loess	2.60	4.40	4.2170	3.8730E-07
ELM-2.65	Peoria Loess	2.65	4.45	4.2660	4.2689E-07
ELM-2.70	Peoria Loess	2.70	4.50	4.1420	4.5596E-07
ELM-2.75	Peoria Loess	2.75	4.55	4.3260	4.9237E-07
ELM-2.80	Peoria Loess	2.80	4.60	4.2980	5.1113E-07
ELM-2.85	Peoria Loess	2.85	4.65	4.1770	4.8160E-07
ELM-2.90	Peoria Loess	2.90	4.70	4.4220	4.7847E-07
ELM-2.95	Peoria Loess	2.95	4.75	4.2730	4.0543E-07
ELM-3.00	Peoria Loess	3.00	4.80	4.3270	3.7809E-07
ELM-3.05	Peoria Loess	3.05	4.85	4.2660	4.3988E-07
ELM-3.10	Peoria Loess	3.10	4.90	4.2520	4.3740E-07
ELM-3.15	Peoria Loess	3.15	4.95	4.3230	4.0591E-07
ELM-3.20	Peoria Loess	3.20	5.00	4.3530	4.0892E-07
ELM-3.25	Peoria Loess	3.25	5.05	4.2350	4.4981E-07
ELM-3.30	Peoria Loess	3.30	5.10	4.3460	3.9648E-07
ELM-3.35	Peoria Loess	3.35	5.15	4.2570	3.6704E-07
ELM-3.40	Peoria Loess	3.40	5.20	4.2290	3.5806E-07
ELM-3.45	Peoria Loess	3.45	5.25	4.3880	2.9789E-07
ELM-3.50	Peoria Loess	3.50	5.30	4.1770	3.2001E-07
ELM-3.55	Peoria Loess	3.55	5.35	4.4100	2.8874E-07
ELM-3.60	Peoria Loess	3.60	5.40	4.3090	2.8402E-07
ELM-3.65	Peoria Loess	3.65	5.45	4.4550	2.9953E-07
ELM-3.70	Peoria Loess	3.70	5.50	4.3030	3.2536E-07
ELM-3.75	Peoria Loess	3.75	5.55	4.3520	2.8754E-07
ELM-3.80	Peoria Loess	3.80	5.60	4.3310	2.9851E-07
ELM-3.85	Peoria Loess	3.85	5.65	4.4560	2.9374E-07
ELM-3.90	Peoria Loess	3.90	5.70	4.3430	2.9134E-07
ELM-3.95	Peoria Loess	3.95	5.75	4.4370	3.0908E-07
ELM-4.00	Mixing zone	4.00	5.80	4.4700	3.2034E-07
ELM-4.05	Mixing zone	4.05	5.85	4.4710	3.0518E-07
ELM-4.10	Mixing zone	4.10	5.90	4.2050	3.1232E-07
ELM-4.15	Mixing zone	4.15	5.95	4.2280	3.0670E-07
ELM-4.20	Mixing zone	4.20	6.00	4.4520	3.2618E-07
ELM-4.25	Mixing zone	4.25	6.05	4.2070	3.1743E-07
ELM-4.30	Mixing zone	4.30	6.10	4.4180	3.1655E-07
ELM-4.35	Mixing zone	4.35	6.15	4.3700	3.2463E-07
ELM-4.40	Mixing zone	4.40	6.20	4.4150	3.1030E-07
ELM-4.45	Mixing zone	4.45	6.25	4.2380	3.1259E-07

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	Unit	Depth (m)	Com. Depth (m)	Mass (g)	LFMS (m3/kg)
ELM-4.50	Mixing zone	4.50	6.30	4.2410	3.1518E-07
ELM-4.55	Mixing zone	4.55	6.35	4.3100	2.9562E-07
ELM-4.60	Gilman Canyon	4.60	6.40	4.2620	3.1218E-07
ELM-4.65	Gilman Canyon	4.65	6.45	4.4300	3.0032E-07
ELM-4.70	Gilman Canyon	4.70	6.50	4.3380	2.6522E-07
ELM-4.75	Gilman Canyon	4.75	6.55	4.2100	2.9013E-07
ELM-4.80	Gilman Canyon	4.80	6.60	4.3490	3.1010E-07
ELM-4.85	Gilman Canyon	4.85	6.65	4.2880	3.2881E-07
ELM-4.90	Gilman Canyon	4.90	6.70	4.3190	3.8211E-07
ELM-4.95	Gilman Canyon	4.95	6.75	4.2460	4.4734E-07
ELM-5.00	Mixing zone	5.00	6.80	4.3510	4.8250E-07
ELM-5.05	Mixing zone	5.05	6.85	4.5360	5.4371E-07
ELM-5.10	Mixing zone	5.10	6.90	4.4240	4.5190E-07
ELM-5.15	Mixing zone	5.15	6.95	4.3840	4.4435E-07
ELM-5.20	Mixing zone	5.20	7.00	4.4220	4.8256E-07
ELM-5.25	Mixing zone	5.25	7.05	4.4070	4.7391E-07
ELM-5.30	Sangamon E	5.30	7.10	4.5690	6.2505E-07
ELM-5.35	Sangamon E	5.35	7.15	4.6980	8.4776E-07
ELM-5.40	Sangamon E	5.40	7.20	4.5070	8.6961E-07
ELM-5.45	Sangamon E	5.45	7.25	4.7590	8.6404E-07
ELM-5.50	Sangamon E	5.50	7.30	4.5890	6.9932E-07
ELM-5.55	Sangamon E	5.55	7.35	4.5620	8.2326E-07
ELM-5.60	Sangamon Bt1	5.60	7.40	4.5910	8.4833E-07
ELM-5.65	Sangamon Bt1	5.65	7.45	4.6750	8.3726E-07
ELM-5.70	Sangamon Bt1	5.70	7.50	4.5070	8.6738E-07
ELM-5.75	Sangamon Bt1	5.75	7.55	4.8220	8.6813E-07
ELM-5.80	Sangamon Bt1	5.80	7.60	4.8010	8.8148E-07
ELM-5.85	Sangamon Bt1	5.85	7.65	4.8710	8.6197E-07
ELM-5.90	Sangamon Bt2	5.90	7.70	4.7850	8.7684E-07
ELM-5.95	Sangamon Bt2	5.95	7.75	4.5400	8.7309E-07
ELM-6.00	Sangamon Bt2	6.00	7.80	4.6290	8.6618E-07
ELM-6.05	Sangamon Bt2	6.05	7.85	4.6980	8.7751E-07
ELM-6.10	Sangamon Bt2	6.10	7.90	4.6700	8.3490E-07
ELM-6.15	Sangamon Bt2	6.15	7.95	4.8350	8.5444E-07
ELM-6.20	Sangamon Bt2	6.20	8.00	4.7530	8.3711E-07
ELM-6.25	Sangamon Bt2	6.25	8.05	4.8800	8.4967E-07
ELM-6.30	Sangamon Bt2	6.30	8.10	4.6510	8.4044E-07
ELM-6.35	Sangamon Bt2	6.35	8.15	4.8490	8.6762E-07
ELM-6.40	Sangamon Bt2	6.40	8.20	4.7160	8.7280E-07
ELM-6.45	Sangamon Bt2	6.45	8.25	4.5950	8.6619E-07
ELM-6.50	Sangamon Bt2	6.50	8.30	4.4970	8.7012E-07
ELM-6.55	Sangamon Bt2	6.55	8.35	4.5240	8.7256E-07
ELM-6.60	Sangamon Bt2	6.60	8.40	4.4920	8.4622E-07
ELM-6.65	Sangamon Bt2	6.65	8.45	4.4850	8.6037E-07
ELM-6.70	Sangamon Bt2	6.70	8.50	4.8560	8.1107E-07
ELM-6.75	Sangamon Bt2	6.75	8.55	4.6820	8.4806E-07
ELM-6.80	Sangamon Bt3	6.80	8.60	4.7610	8.6357E-07
ELM-6.85	Sangamon Bt3	6.85	8.65	4.7790	8.5311E-07
ELM-6.90	Sangamon Bt3	6.90	8.70	4.6890	8.6217E-07
ELM-6.95	Sangamon Bt3	6.95	8.75	4.5750	8.5506E-07

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	Unit	Depth (m)	Com. Depth (m)	Mass (g)	LFMS (m3/kg)
ELM-7.00	Sangamon Bt3	7.00	8.80	4.6080	8.2854E-07
ELM-7.05	Sangamon Bt3	7.05	8.85	4.6490	8.2029E-07
ELM-7.10	Sangamon Bt3	7.10	8.90	4.6130	8.0560E-07
ELM-7.15	Sangamon Bt3	7.15	8.95	4.5890	8.0382E-07
ELM-7.20	Sangamon Bt3	7.20	9.00	4.7000	7.3888E-07
ELM-7.25	Sangamon Bt3	7.25	9.05	4.7210	7.9953E-07
ELM-7.30	Sangamon Bt3	7.30	9.10	4.5760	7.6445E-07
ELM-7.35	Sangamon Bt3	7.35	9.15	4.5830	7.4620E-07
ELM-7.40	Sangamon Bt3	7.40	9.20	4.6750	8.1978E-07
ELM-7.45	Sangamon Bt3	7.45	9.25	4.6350	7.3007E-07
ELM-7.50	Sangamon Bt3	7.50	9.30	4.6850	7.4207E-07
ELM-7.55	Sangamon Bt3	7.55	9.35	4.6730	7.5396E-07
ELM-7.60	Sangamon Bt3	7.60	9.40	4.6640	7.9337E-07
ELM-7.65	Sangamon Bt3	7.65	9.45	4.6130	8.1729E-07
ELM-7.70	Sangamon Bt3	7.70	9.50	4.9300	7.7435E-07
ELM-7.75	Sangamon Bt3	7.75	9.55	4.7310	7.7765E-07
ELM-7.80	Sangamon Bt4	7.80	9.60	4.4310	7.9780E-07
ELM-7.85	Sangamon Bt4	7.85	9.65	4.5450	9.0221E-07
ELM-7.90	Sangamon Bt4	7.90	9.70	4.7290	8.9981E-07
ELM-7.95	Sangamon Bt4	7.95	9.75	4.4970	8.7984E-07
ELM-8.00	Sangamon Bt4	8.00	9.80	4.5510	8.2707E-07
ELM-8.05	Sangamon Bt4	8.05	9.85	4.6280	8.7606E-07
ELM-8.10	Sangamon Bt4	8.10	9.90	4.5710	8.5653E-07
ELM-8.15	Sangamon Bt4	8.15	9.95	4.5410	8.9481E-07
ELM-8.20	Sangamon Bt4	8.20	10.00	4.5770	8.5938E-07
ELM-8.25	Sangamon Bt4	8.25	10.05	4.8050	8.1424E-07
ELM-8.30	Sangamon Bt4	8.30	10.10	4.6210	8.1688E-07
ELM-8.35	Sangamon Bt4	8.35	10.15	4.5040	7.9449E-07
ELM-8.40	Sangamon Bt4	8.40	10.20	4.6100	7.9501E-07
ELM-8.45	Sangamon Bt4	8.45	10.25	4.7740	8.3966E-07
ELM-8.50	Sangamon Bt4	8.50	10.30	4.5090	8.2681E-07
ELM-8.55	Sangamon Bt4	8.55	10.35	4.6540	8.3828E-07
ELM-8.60	Sangamon Bt4	8.60	10.40	4.6410	7.9346E-07
ELM-8.65	Sangamon Bt4	8.65	10.45	4.5290	7.9155E-07
ELM-8.70	Sangamon Bt4	8.70	10.50	4.7310	7.8155E-07
ELM-8.75	Sangamon Bt4	8.75	10.55	4.6330	7.8539E-07
ELM-8.80	Sangamon Bt4	8.80	10.60	4.5610	7.9008E-07
ELM-8.85	Sangamon Bt4	8.85	10.65	4.6320	7.8673E-07
ELM-8.90	Sangamon Bt4	8.90	10.70	4.6270	7.8902E-07
ELM-8.95	Sangamon Bt4	8.95	10.75	4.5260	7.9768E-07
ELM-9.00	Loveland Loess	9.00	10.80	4.6380	7.8465E-07
ELM-9.05	Loveland Loess	9.05	10.85	4.6160	7.7179E-07
ELM-9.10	Loveland Loess	9.10	10.90	4.6650	7.6266E-07
ELM-9.15	Loveland Loess	9.15	10.95	4.5600	7.9604E-07
ELM-9.20	Loveland Loess	9.20	11.00	4.5360	7.9978E-07
ELM-9.25	Loveland Loess	9.25	11.05	4.6770	8.0339E-07
ELM-9.30	Loveland Loess	9.30	11.10	4.5920	8.2762E-07
ELM-9.35	Loveland Loess	9.35	11.15	4.6210	8.3913E-07
ELM-9.40	Loveland Loess	9.40	11.20	4.5410	8.3158E-07
ELM-9.45	Loveland Loess	9.45	11.25	4.6190	8.3372E-07

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	Unit	Depth (m)	Com. Depth (m)	Mass (g)	LFMS (m3/kg)
ELM-9.50	Loveland Loess	9.50	11.30	4.7000	8.2804E-07
ELM-9.55	Loveland Loess	9.55	11.35	4.6680	7.9458E-07
ELM-9.60	Loveland Loess	9.60	11.40	4.8000	7.9896E-07
ELM-9.65	Loveland Loess	9.65	11.45	4.7860	8.0631E-07
ELM-9.70	Loveland Loess	9.70	11.50	4.7850	8.0819E-07
ELM-9.75	Loveland Loess	9.75	11.55	4.7240	8.1559E-07
ELM-9.80	Loveland Loess	9.80	11.60	4.7630	8.1746E-07
ELM-9.85	Loveland Loess	9.85	11.65	4.5590	7.9621E-07
ELM-9.90	Loveland Loess	9.90	11.70	4.6770	7.8233E-07
ELM-9.95	Loveland Loess	9.95	11.75	4.6530	8.3873E-07
ELM-10.00	Loveland Loess	10.00	11.80	4.7840	8.5456E-07
ELM-10.05	Loveland Loess	10.05	11.85	4.7060	9.0897E-07
ELM-10.10	Mixing zone	10.10	11.90	4.6730	9.2157E-07
ELM-10.15	Ab of Paleosol in Walnut Creek II Loess	10.15	11.95	4.6780	9.1218E-07
ELM-10.20	Btb of Paleosol in Walnut Creek II Loess	10.20	12.00	4.5640	8.9537E-07
Break In Section					
"Bulk" Section					
EL1	Modern soil (eroded)	0.10	1.90	3.5536	6.5962E-07
EL2	Peoria Loess	0.50	2.30	3.8803	3.9413E-07
EL3	Peoria Loess	1.00	2.80	3.6901	3.9326E-07
EL-4	Peoria Loess	1.50	3.30	3.6568	4.1818E-07
EL-5	Peoria Loess	2.00	3.80	3.5594	4.8823E-07
EL-6	Peoria Loess	2.50	4.30	3.5400	4.7990E-07
EL-7	Peoria Loess	3.00	4.80	3.9051	4.2966E-07
EL-8	Peoria Loess	3.50	5.30	4.0015	2.6595E-06
EL-9	Mixing zone	4.00	5.80	4.0052	3.1858E-07
EL-10	Mixing zone	4.30	6.10	3.6769	3.2240E-07
EL-11	Mixing zone	4.60	6.40	3.8665	3.3102E-07
EL-12	Gilman Canyon	4.90	6.70	3.3463	3.2533E-07
EL-13	Mixing zone	5.15	6.95	3.6341	6.0026E-07
EL-14	Sangamon E	5.44	7.24	3.9455	8.9489E-07
EL-15	Sangamon Bt1	5.72	7.52	4.1004	8.9991E-07
EL-16	Sangamon Bt2	5.94	7.74	3.9908	8.5570E-07
EL-17	Sangamon Bt3	7.10	8.90	3.8442	7.7735E-07
EL-18	Sangamon Bt3	7.40	9.20	3.8432	6.3456E-07
EL-19	Sangamon Bt4	8.20	10.00	3.8713	8.3546E-07
EL-20	Sangamon Bt4	8.60	10.40	3.9608	8.0681E-07
EL-21	Loveland Loess	9.30	11.10	3.8725	8.2203E-07

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	HFMS (m3/kg)	FDMS (m3/kg)	FDMS%	ARM (Am2/kg)	IRM 1.2T (Am2/kg)	IRM-0.3T (Am2/kg)	HIRM (Am2/kg)	S
Elba Modern Soil								
EL-101	7.9521E-07	3.7774E-08	4.53	2.6136E-04	7.22E-03	-6.7457E-03	2.3609E-04	0.93
EL-102	7.4634E-07	4.5382E-08	5.73	2.5425E-04	6.74E-03	-6.2612E-03	2.3815E-04	0.93
EL-103	5.7976E-07	3.7280E-08	6.04	1.7593E-04	4.92E-03	-4.5416E-03	1.8869E-04	0.92
EL-104	4.1313E-07	2.1571E-08	4.96	1.0156E-04	3.30E-03	-3.0108E-03	1.4357E-04	0.91
EL-105	3.2969E-07	6.9574E-09	2.07	6.3959E-05	2.51E-03	-2.2317E-03	1.4109E-04	0.89
EL-106	3.3092E-07	1.3400E-10	0.04	6.0781E-05	2.57E-03	-2.2777E-03	1.4715E-04	0.89
EL-107	2.9990E-07	6.4066E-09	2.09	5.6415E-05	2.49E-03	-2.2127E-03	1.4104E-04	0.89
EL-108	3.1790E-07	5.8885E-09	1.82	5.7640E-05	2.71E-03	-2.4093E-03	1.5032E-04	0.89
EL-109	1.8770E-07	-2.7325E-08	-17.04	4.2135E-05	1.54E-03	-1.2958E-03	1.2168E-04	0.84
Detailed Section								
ELM-0.15	4.2802E-07	2.3981E-09	0.56	7.1702E-05	4.00E-03	-3.6947E-03	1.5406E-04	0.92
ELM-0.20	4.1781E-07	6.8601E-09	1.62	6.9017E-05	3.93E-03	-3.6318E-03	1.4847E-04	0.92
ELM-0.25	3.9195E-07	4.4189E-09	1.11	6.3673E-05	3.59E-03	-3.3096E-03	1.3790E-04	0.92
ELM-0.30	4.0401E-07	3.9695E-09	0.97	6.6807E-05	3.72E-03	-3.4522E-03	1.3538E-04	0.93
ELM-0.35	3.3940E-07	5.6819E-09	1.65	5.5845E-05	3.07E-03	-2.8095E-03	1.3169E-04	0.91
ELM-0.40	3.4014E-07	6.5987E-09	1.90	5.6237E-05	3.07E-03	-2.8205E-03	1.2612E-04	0.92
ELM-0.45	3.4348E-07	4.6575E-09	1.34	5.4794E-05	3.03E-03	-2.7739E-03	1.2821E-04	0.92
ELM-0.50	3.4456E-07	3.5249E-09	1.01	5.5141E-05	3.09E-03	-2.8518E-03	1.1688E-04	0.92
ELM-0.55	3.6234E-07	3.6345E-09	0.99	6.0158E-05	3.35E-03	-3.0517E-03	1.4803E-04	0.91
ELM-0.60	3.9110E-07	4.1196E-09	1.04	6.0434E-05	3.56E-03	-3.3016E-03	1.2788E-04	0.93
ELM-0.65	3.6942E-07	5.9717E-09	1.59	6.0859E-05	3.39E-03	-3.1605E-03	1.1369E-04	0.93
ELM-0.70	3.7092E-07	6.8767E-09	1.82	5.9841E-05	3.40E-03	-3.1406E-03	1.3086E-04	0.92
ELM-0.75	3.5542E-07	5.3856E-09	1.49	5.7744E-05	3.27E-03	-2.9954E-03	1.3825E-04	0.92
ELM-0.80	3.7635E-07	5.3573E-09	1.40	6.3691E-05	3.64E-03	-3.3596E-03	1.3902E-04	0.92
ELM-0.85	4.2446E-07	6.8386E-09	1.59	7.2373E-05	4.04E-03	-3.7199E-03	1.6073E-04	0.92
ELM-0.90	4.5033E-07	7.1254E-09	1.56	7.9539E-05	4.31E-03	-3.9918E-03	1.5877E-04	0.93
ELM-0.95	4.4452E-07	5.6439E-09	1.25	8.1899E-05	4.33E-03	-4.0330E-03	1.4895E-04	0.93
ELM-1.00	4.5162E-07	5.9424E-09	1.30	8.4057E-05	4.43E-03	-4.0797E-03	1.7385E-04	0.92
ELM-1.05	3.5876E-07	5.0003E-09	1.37	5.8947E-05	3.25E-03	-2.9804E-03	1.3552E-04	0.92
ELM-1.10	3.4480E-07	4.1609E-09	1.19	5.6243E-05	3.13E-03	-2.8742E-03	1.2647E-04	0.92
ELM-1.15	3.3631E-07	6.4562E-09	1.88	5.6869E-05	3.12E-03	-2.8697E-03	1.2729E-04	0.92
ELM-1.20	3.3760E-07	6.0544E-09	1.76	5.7605E-05	3.09E-03	-2.8197E-03	1.3321E-04	0.91
ELM-1.25	3.5252E-07	5.0035E-09	1.40	5.7840E-05	3.20E-03	-2.9291E-03	1.3730E-04	0.91
ELM-1.30	3.3232E-07	4.5917E-09	1.36	5.6522E-05	3.04E-03	-2.7817E-03	1.2966E-04	0.91
ELM-1.35	3.1914E-07	4.3547E-09	1.35	5.2895E-05	2.85E-03	-2.6167E-03	1.1787E-04	0.92
ELM-1.40	3.7072E-07	6.5409E-09	1.73	6.1400E-05	3.50E-03	-3.2142E-03	1.4392E-04	0.92
ELM-1.45	4.0661E-07	4.9803E-09	1.21	6.5695E-05	3.75E-03	-3.4678E-03	1.4154E-04	0.92
ELM-1.50	4.0430E-07	6.0805E-09	1.48	6.7377E-05	3.80E-03	-3.5253E-03	1.3825E-04	0.93
ELM-1.55	4.2178E-07	4.9833E-09	1.17	7.0592E-05	3.94E-03	-3.6312E-03	1.5528E-04	0.92
ELM-1.60	4.1712E-07	4.7181E-09	1.12	7.0073E-05	3.92E-03	-3.6342E-03	1.4440E-04	0.93
ELM-1.65	4.2914E-07	6.7146E-09	1.54	7.1576E-05	4.07E-03	-3.7703E-03	1.4981E-04	0.93
ELM-1.70	4.4266E-07	5.6511E-09	1.26	7.6358E-05	4.24E-03	-3.8817E-03	1.7751E-04	0.92
ELM-1.75	4.4959E-07	8.6540E-09	1.89	7.8049E-05	4.30E-03	-3.9694E-03	1.6738E-04	0.92
ELM-1.80	4.3211E-07	6.2003E-09	1.41	7.4890E-05	4.16E-03	-3.8199E-03	1.7053E-04	0.92
ELM-1.85	4.2733E-07	6.3838E-09	1.47	7.3668E-05	3.99E-03	-3.7346E-03	1.2758E-04	0.94
ELM-1.90	4.4627E-07	7.7736E-09	1.71	7.8257E-05	4.24E-03	-3.9258E-03	1.5465E-04	0.93
ELM-1.95	4.6965E-07	7.3009E-09	1.53	8.2597E-05	4.49E-03	-4.1366E-03	1.7430E-04	0.92

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	HFMS (m3/kg)	FDMS (m3/kg)	FDMS%	ARM (Am2/kg)	IRM 1.2T (Am2/kg)	IRM-0.3T (Am2/kg)	HIRM (Am2/kg)	S
ELM-2.00	3.7569E-07	5.3814E-09	1.41	6.4088E-05	3.22E-03	-2.8706E-03	1.7647E-04	0.89
ELM-2.05	4.7607E-07	7.6444E-09	1.58	8.5691E-05	4.57E-03	-4.2077E-03	1.8033E-04	0.92
ELM-2.10	4.7564E-07	8.1588E-09	1.69	8.7263E-05	4.63E-03	-4.2578E-03	1.8819E-04	0.92
ELM-2.15	4.8791E-07	4.5885E-09	0.93	8.6475E-05	4.67E-03	-4.2843E-03	1.9474E-04	0.92
ELM-2.20	4.9917E-07	6.0640E-09	1.20	9.4505E-05	4.92E-03	-4.5389E-03	1.9111E-04	0.92
ELM-2.25	4.9037E-07	4.4412E-09	0.90	9.1419E-05	4.72E-03	-4.4118E-03	1.5417E-04	0.93
ELM-2.30	4.8555E-07	6.3036E-09	1.28	9.8769E-05	4.88E-03	-4.4821E-03	1.9740E-04	0.92
ELM-2.35	4.6515E-07	5.9726E-09	1.27	8.8272E-05	4.49E-03	-4.1350E-03	1.7823E-04	0.92
ELM-2.40	5.0127E-07	6.7487E-09	1.33	1.1099E-04	5.06E-03	-4.6751E-03	1.9180E-04	0.92
ELM-2.45	5.0424E-07	5.0421E-09	0.99	1.1332E-04	4.94E-03	-4.5584E-03	1.8993E-04	0.92
ELM-2.50	4.7042E-07	2.7161E-09	0.57	1.0880E-04	4.44E-03	-4.0346E-03	2.0413E-04	0.91
ELM-2.55	4.4670E-07	6.1683E-09	1.36	9.9147E-05	4.01E-03	-3.6583E-03	1.7365E-04	0.91
ELM-2.60	3.8197E-07	5.3341E-09	1.38	7.3293E-05	3.39E-03	-2.9642E-03	2.1342E-04	0.87
ELM-2.65	4.2230E-07	4.5953E-09	1.08	8.5420E-05	3.77E-03	-3.3521E-03	2.1097E-04	0.89
ELM-2.70	4.4886E-07	7.0993E-09	1.56	9.0266E-05	3.98E-03	-3.6214E-03	1.8107E-04	0.91
ELM-2.75	4.8604E-07	6.3326E-09	1.29	1.1414E-04	4.46E-03	-4.0222E-03	2.1960E-04	0.90
ELM-2.80	5.0344E-07	7.6895E-09	1.50	1.1327E-04	4.68E-03	-4.2578E-03	2.0940E-04	0.91
ELM-2.85	4.7341E-07	8.1830E-09	1.70	1.0358E-04	4.43E-03	-4.0220E-03	2.0350E-04	0.91
ELM-2.90	4.7046E-07	8.0138E-09	1.67	1.0525E-04	4.32E-03	-3.8896E-03	2.1483E-04	0.90
ELM-2.95	3.9925E-07	6.1758E-09	1.52	8.2726E-05	3.49E-03	-3.1126E-03	1.8722E-04	0.89
ELM-3.00	3.7095E-07	7.1443E-09	1.89	7.5079E-05	2.98E-03	-2.5653E-03	2.0800E-04	0.86
ELM-3.05	4.3128E-07	8.6015E-09	1.96	8.3118E-05	3.82E-03	-3.4224E-03	1.9925E-04	0.90
ELM-3.10	4.3040E-07	7.0043E-09	1.60	7.9266E-05	3.76E-03	-3.4102E-03	1.7639E-04	0.91
ELM-3.15	3.9937E-07	6.5404E-09	1.61	7.5296E-05	3.42E-03	-3.0072E-03	2.0819E-04	0.88
ELM-3.20	4.0332E-07	5.6005E-09	1.37	7.9084E-05	3.45E-03	-3.0324E-03	2.0675E-04	0.88
ELM-3.25	4.4512E-07	4.6883E-09	1.04	8.4608E-05	3.85E-03	-3.4711E-03	1.8890E-04	0.90
ELM-3.30	3.9145E-07	5.0312E-09	1.27	7.2356E-05	3.41E-03	-2.9913E-03	2.0709E-04	0.88
ELM-3.35	3.6084E-07	6.1991E-09	1.69	6.2539E-05	3.10E-03	-2.6779E-03	2.1142E-04	0.86
ELM-3.40	3.5361E-07	4.4572E-09	1.24	5.9319E-05	2.98E-03	-2.5774E-03	2.0099E-04	0.87
ELM-3.45	2.9540E-07	2.4915E-09	0.84	5.3464E-05	2.39E-03	-1.9690E-03	2.1194E-04	0.82
ELM-3.50	3.1724E-07	2.7678E-09	0.86	5.2835E-05	2.54E-03	-2.1475E-03	1.9512E-04	0.85
ELM-3.55	2.8535E-07	3.3909E-09	1.17	5.2143E-05	2.34E-03	-1.9320E-03	2.0181E-04	0.83
ELM-3.60	2.7883E-07	5.1823E-09	1.82	5.2026E-05	2.17E-03	-1.7545E-03	2.1003E-04	0.81
ELM-3.65	2.9539E-07	4.1465E-09	1.38	5.7565E-05	2.22E-03	-1.8227E-03	1.9641E-04	0.82
ELM-3.70	3.1958E-07	5.7823E-09	1.78	6.2382E-05	2.39E-03	-1.9893E-03	2.0218E-04	0.83
ELM-3.75	2.8354E-07	4.0021E-09	1.39	5.7843E-05	2.19E-03	-1.7762E-03	2.0680E-04	0.81
ELM-3.80	2.9404E-07	4.4683E-09	1.50	6.0660E-05	2.25E-03	-1.8194E-03	2.1358E-04	0.81
ELM-3.85	2.8734E-07	6.4016E-09	2.18	5.9795E-05	2.20E-03	-1.7841E-03	2.0983E-04	0.81
ELM-3.90	2.8660E-07	4.7424E-09	1.63	5.6953E-05	2.11E-03	-1.7131E-03	1.9687E-04	0.81
ELM-3.95	3.0310E-07	5.9759E-09	1.93	6.3103E-05	2.32E-03	-1.8954E-03	2.1298E-04	0.82
ELM-4.00	3.1512E-07	5.2290E-09	1.63	6.2318E-05	2.44E-03	-2.0291E-03	2.0470E-04	0.83
ELM-4.05	2.9998E-07	5.1997E-09	1.70	5.8201E-05	2.23E-03	-1.8027E-03	2.1136E-04	0.81
ELM-4.10	3.0787E-07	4.4528E-09	1.43	5.7762E-05	2.24E-03	-1.8383E-03	2.0095E-04	0.82
ELM-4.15	3.0126E-07	5.4391E-09	1.77	6.1072E-05	2.27E-03	-1.8567E-03	2.0814E-04	0.82
ELM-4.20	3.2206E-07	4.1210E-09	1.26	6.7311E-05	2.45E-03	-2.0238E-03	2.1226E-04	0.83
ELM-4.25	3.1301E-07	4.4208E-09	1.39	5.8555E-05	2.29E-03	-1.8992E-03	1.9729E-04	0.83
ELM-4.30	3.1043E-07	6.1154E-09	1.93	6.3811E-05	2.35E-03	-1.9285E-03	2.1277E-04	0.82
ELM-4.35	3.1827E-07	6.3551E-09	1.96	6.4586E-05	2.33E-03	-1.9268E-03	2.0366E-04	0.83
ELM-4.40	3.0623E-07	4.0702E-09	1.31	6.1906E-05	2.31E-03	-1.8890E-03	2.1065E-04	0.82
ELM-4.45	3.0752E-07	5.0704E-09	1.62	5.8116E-05	2.31E-03	-1.8877E-03	2.1118E-04	0.82

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	HFMS (m3/kg)	FDMS (m3/kg)	FDMS%	ARM (Am2/kg)	IRM 1.2T (Am2/kg)	IRM-0.3T (Am2/kg)	HIRM (Am2/kg)	S
ELM-4.50	3.0994E-07	5.2446E-09	1.66	5.7941E-05	2.33E-03	-1.9005E-03	2.1457E-04	0.82
ELM-4.55	2.9124E-07	4.3734E-09	1.48	5.6623E-05	2.21E-03	-1.7703E-03	2.1810E-04	0.80
ELM-4.60	3.0791E-07	4.2753E-09	1.37	5.9863E-05	2.46E-03	-2.0413E-03	2.1117E-04	0.83
ELM-4.65	2.9450E-07	5.8151E-09	1.94	6.1631E-05	2.19E-03	-1.7223E-03	2.3138E-04	0.79
ELM-4.70	2.6235E-07	2.8707E-09	1.08	6.2788E-05	2.07E-03	-1.6160E-03	2.2591E-04	0.78
ELM-4.75	2.8406E-07	6.0742E-09	2.09	8.8613E-05	2.38E-03	-1.8860E-03	2.4466E-04	0.79
ELM-4.80	3.0175E-07	8.3506E-09	2.69	1.0454E-04	2.64E-03	-2.1131E-03	2.6558E-04	0.80
ELM-4.85	3.2254E-07	6.2715E-09	1.91	1.1146E-04	2.87E-03	-2.3321E-03	2.6819E-04	0.81
ELM-4.90	3.7242E-07	9.6888E-09	2.54	1.1541E-04	3.20E-03	-2.6858E-03	2.5469E-04	0.84
ELM-4.95	4.2831E-07	1.9030E-08	4.25	2.1441E-04	4.05E-03	-3.5092E-03	2.7084E-04	0.87
ELM-5.00	4.6199E-07	2.0506E-08	4.25	2.4012E-04	4.46E-03	-3.9071E-03	2.7580E-04	0.88
ELM-5.05	5.2280E-07	2.0916E-08	3.85	2.5573E-04	5.27E-03	-4.6737E-03	2.9762E-04	0.89
ELM-5.10	4.3284E-07	1.9060E-08	4.22	2.2675E-04	4.20E-03	-3.6618E-03	2.7125E-04	0.87
ELM-5.15	4.2718E-07	1.7170E-08	3.86	2.0302E-04	4.06E-03	-3.5128E-03	2.7372E-04	0.87
ELM-5.20	4.6185E-07	2.0717E-08	4.29	2.4034E-04	4.36E-03	-3.7992E-03	2.8268E-04	0.87
ELM-5.25	4.5409E-07	1.9818E-08	4.18	2.2164E-04	4.38E-03	-3.7894E-03	2.9499E-04	0.87
ELM-5.30	5.9936E-07	2.5688E-08	4.11	2.6389E-04	6.19E-03	-5.6030E-03	2.9547E-04	0.90
ELM-5.35	8.1154E-07	3.6217E-08	4.27	3.4285E-04	9.05E-03	-8.3653E-03	3.4057E-04	0.92
ELM-5.40	8.3122E-07	3.8393E-08	4.42	3.2937E-04	9.05E-03	-8.4091E-03	3.2172E-04	0.93
ELM-5.45	8.2784E-07	3.6202E-08	4.19	3.2697E-04	9.16E-03	-8.5102E-03	3.2570E-04	0.93
ELM-5.50	6.6660E-07	3.2723E-08	4.68	3.0997E-04	6.93E-03	-6.2977E-03	3.1597E-04	0.91
ELM-5.55	7.9098E-07	3.2284E-08	3.92	2.7967E-04	8.26E-03	-7.6940E-03	2.8496E-04	0.93
ELM-5.60	8.1461E-07	3.3722E-08	3.98	2.7874E-04	8.45E-03	-7.9068E-03	2.7227E-04	0.94
ELM-5.65	8.0350E-07	3.3761E-08	4.03	2.7253E-04	8.32E-03	-7.7219E-03	2.9947E-04	0.93
ELM-5.70	8.3545E-07	3.1925E-08	3.68	2.7073E-04	8.74E-03	-8.1651E-03	2.8844E-04	0.93
ELM-5.75	8.3448E-07	3.3644E-08	3.88	2.8899E-04	8.98E-03	-8.3575E-03	3.1107E-04	0.93
ELM-5.80	8.5235E-07	2.9132E-08	3.30	2.8944E-04	9.06E-03	-8.4774E-03	2.9161E-04	0.94
ELM-5.85	8.3473E-07	2.7243E-08	3.16	2.8246E-04	8.91E-03	-8.3350E-03	2.8742E-04	0.94
ELM-5.90	8.4719E-07	2.9650E-08	3.38	2.9744E-04	9.07E-03	-8.4848E-03	2.9258E-04	0.94
ELM-5.95	8.4228E-07	3.0807E-08	3.53	2.9145E-04	8.88E-03	-8.2819E-03	2.9736E-04	0.93
ELM-6.00	8.3417E-07	3.2006E-08	3.70	3.1323E-04	9.12E-03	-8.4467E-03	3.3485E-04	0.93
ELM-6.05	8.4228E-07	3.5228E-08	4.01	3.2292E-04	9.13E-03	-8.4717E-03	3.2993E-04	0.93
ELM-6.10	8.0199E-07	3.2909E-08	3.94	3.1693E-04	8.72E-03	-8.0942E-03	3.1049E-04	0.93
ELM-6.15	8.1927E-07	3.5165E-08	4.12	3.2033E-04	8.96E-03	-8.2937E-03	3.3092E-04	0.93
ELM-6.20	8.0025E-07	3.6856E-08	4.40	3.1159E-04	8.50E-03	-7.8266E-03	3.3663E-04	0.92
ELM-6.25	8.1414E-07	3.5536E-08	4.18	3.1195E-04	8.69E-03	-8.0328E-03	3.2787E-04	0.92
ELM-6.30	8.0262E-07	3.7826E-08	4.50	3.1680E-04	8.62E-03	-7.9553E-03	3.3326E-04	0.92
ELM-6.35	8.3139E-07	3.6230E-08	4.18	3.1616E-04	8.91E-03	-8.2697E-03	3.1965E-04	0.93
ELM-6.40	8.3608E-07	3.6719E-08	4.21	3.1995E-04	8.97E-03	-8.3121E-03	3.2867E-04	0.93
ELM-6.45	8.3225E-07	3.3939E-08	3.92	3.1414E-04	8.86E-03	-8.1610E-03	3.4820E-04	0.92
ELM-6.50	8.3429E-07	3.5824E-08	4.12	3.1147E-04	8.83E-03	-8.1832E-03	3.2244E-04	0.93
ELM-6.55	8.3692E-07	3.5638E-08	4.08	3.1076E-04	8.82E-03	-8.2228E-03	2.9841E-04	0.93
ELM-6.60	8.1164E-07	3.4577E-08	4.09	3.0604E-04	8.57E-03	-7.9920E-03	2.8940E-04	0.93
ELM-6.65	8.2369E-07	3.6676E-08	4.26	3.1040E-04	8.67E-03	-8.0713E-03	3.0100E-04	0.93
ELM-6.70	7.7719E-07	3.3874E-08	4.18	2.9260E-04	8.34E-03	-7.6812E-03	3.2949E-04	0.92
ELM-6.75	8.1153E-07	3.6529E-08	4.31	3.1482E-04	8.52E-03	-7.9240E-03	2.9902E-04	0.93
ELM-6.80	8.2467E-07	3.8905E-08	4.51	3.2181E-04	8.82E-03	-8.1706E-03	3.2556E-04	0.93
ELM-6.85	8.1467E-07	3.8443E-08	4.51	3.2366E-04	8.70E-03	-8.0561E-03	3.2434E-04	0.93
ELM-6.90	8.2425E-07	3.7922E-08	4.40	3.1912E-04	8.57E-03	-7.9335E-03	3.1990E-04	0.93
ELM-6.95	8.1878E-07	3.6285E-08	4.24	3.1967E-04	8.44E-03	-7.8251E-03	3.0601E-04	0.93

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	HFMS (m3/kg)	FDMS (m3/kg)	FDMS%	ARM (Am2/kg)	IRM 1.2T (Am2/kg)	IRM-0.3T (Am2/kg)	HIRM (Am2/kg)	S
ELM-7.00	7.9778E-07	3.0761E-08	3.71	3.2513E-04	8.38E-03	-7.7040E-03	3.3637E-04	0.92
ELM-7.05	7.9142E-07	2.8868E-08	3.52	3.1919E-04	8.24E-03	-7.5715E-03	3.3341E-04	0.92
ELM-7.10	7.7684E-07	2.8767E-08	3.57	3.0841E-04	8.04E-03	-7.3922E-03	3.2517E-04	0.92
ELM-7.15	7.7414E-07	2.9684E-08	3.69	2.9892E-04	7.87E-03	-7.2129E-03	3.2687E-04	0.92
ELM-7.20	7.1003E-07	2.8849E-08	3.90	2.9181E-04	7.26E-03	-6.6596E-03	2.9787E-04	0.92
ELM-7.25	7.6881E-07	3.0717E-08	3.84	3.0758E-04	7.79E-03	-7.2019E-03	2.9655E-04	0.92
ELM-7.30	7.3847E-07	2.5979E-08	3.40	2.9509E-04	7.54E-03	-6.9056E-03	3.1687E-04	0.92
ELM-7.35	7.1809E-07	2.8105E-08	3.77	2.9154E-04	7.11E-03	-6.5896E-03	2.6184E-04	0.93
ELM-7.40	7.8925E-07	3.0536E-08	3.72	3.0509E-04	8.30E-03	-7.6364E-03	3.3155E-04	0.92
ELM-7.45	7.0182E-07	2.8251E-08	3.87	2.9502E-04	7.16E-03	-6.5372E-03	3.1284E-04	0.91
ELM-7.50	7.1431E-07	2.7761E-08	3.74	2.9056E-04	7.21E-03	-6.6169E-03	2.9883E-04	0.92
ELM-7.55	7.2373E-07	3.0226E-08	4.01	3.1227E-04	7.55E-03	-6.9120E-03	3.2099E-04	0.92
ELM-7.60	7.6088E-07	3.2494E-08	4.10	3.2497E-04	8.00E-03	-7.3328E-03	3.3233E-04	0.92
ELM-7.65	7.8103E-07	3.6258E-08	4.44	3.1167E-04	7.96E-03	-7.3922E-03	2.8181E-04	0.93
ELM-7.70	7.4093E-07	3.3417E-08	4.32	3.1392E-04	7.83E-03	-7.2211E-03	3.0426E-04	0.92
ELM-7.75	7.4139E-07	3.6257E-08	4.66	3.2729E-04	7.67E-03	-7.1021E-03	2.8535E-04	0.93
ELM-7.80	7.5985E-07	3.7946E-08	4.76	3.3340E-04	7.90E-03	-7.2896E-03	3.0467E-04	0.92
ELM-7.85	8.5374E-07	4.8468E-08	5.37	3.8054E-04	9.11E-03	-8.4708E-03	3.1903E-04	0.93
ELM-7.90	8.5655E-07	4.3261E-08	4.81	3.7601E-04	9.28E-03	-8.6488E-03	3.1719E-04	0.93
ELM-7.95	8.3868E-07	4.1161E-08	4.68	3.6076E-04	9.21E-03	-8.6057E-03	3.0020E-04	0.93
ELM-8.00	7.9314E-07	3.3936E-08	4.10	3.2102E-04	8.33E-03	-7.7346E-03	2.9664E-04	0.93
ELM-8.05	8.4280E-07	3.3262E-08	3.80	3.2815E-04	9.20E-03	-8.5566E-03	3.2411E-04	0.93
ELM-8.10	8.1999E-07	3.6536E-08	4.27	3.3018E-04	8.51E-03	-7.8539E-03	3.2816E-04	0.92
ELM-8.15	8.6158E-07	3.3235E-08	3.71	3.3424E-04	9.87E-03	-9.2270E-03	3.1931E-04	0.94
ELM-8.20	8.3336E-07	2.6028E-08	3.03	2.9566E-04	9.42E-03	-8.7830E-03	3.1680E-04	0.93
ELM-8.25	7.8976E-07	2.4479E-08	3.01	2.8580E-04	9.12E-03	-8.4912E-03	3.1217E-04	0.93
ELM-8.30	7.9276E-07	2.4121E-08	2.95	2.8572E-04	9.00E-03	-8.4397E-03	2.8132E-04	0.94
ELM-8.35	7.7187E-07	2.2627E-08	2.85	2.6908E-04	8.64E-03	-8.0595E-03	2.8863E-04	0.93
ELM-8.40	7.7205E-07	2.2952E-08	2.89	2.7258E-04	8.66E-03	-8.0694E-03	2.9284E-04	0.93
ELM-8.45	8.1087E-07	2.8797E-08	3.43	3.0552E-04	9.26E-03	-8.6301E-03	3.1420E-04	0.93
ELM-8.50	7.9626E-07	3.0545E-08	3.69	3.0804E-04	9.12E-03	-8.4941E-03	3.1049E-04	0.93
ELM-8.55	8.0952E-07	2.8756E-08	3.43	2.9673E-04	9.09E-03	-8.5088E-03	2.9007E-04	0.94
ELM-8.60	7.7023E-07	2.3232E-08	2.93	2.7073E-04	8.64E-03	-8.0586E-03	2.9089E-04	0.93
ELM-8.65	7.6627E-07	2.5277E-08	3.19	2.7688E-04	8.63E-03	-8.0592E-03	2.8704E-04	0.93
ELM-8.70	7.5836E-07	2.3188E-08	2.97	2.7163E-04	8.56E-03	-7.9687E-03	2.9592E-04	0.93
ELM-8.75	7.6250E-07	2.2892E-08	2.91	2.6927E-04	8.48E-03	-7.9214E-03	2.8060E-04	0.93
ELM-8.80	7.6754E-07	2.2537E-08	2.85	2.6288E-04	8.48E-03	-7.8930E-03	2.9599E-04	0.93
ELM-8.85	7.6410E-07	2.2626E-08	2.88	2.5980E-04	8.44E-03	-7.8584E-03	2.9145E-04	0.93
ELM-8.90	7.6748E-07	2.1537E-08	2.73	2.5727E-04	8.52E-03	-7.9317E-03	2.9177E-04	0.93
ELM-8.95	7.7650E-07	2.1185E-08	2.66	2.4484E-04	8.57E-03	-7.9540E-03	3.0932E-04	0.93
ELM-9.00	7.6287E-07	2.1784E-08	2.78	2.5271E-04	8.52E-03	-7.9345E-03	2.9107E-04	0.93
ELM-9.05	7.5126E-07	2.0527E-08	2.66	2.5022E-04	8.30E-03	-7.7340E-03	2.8163E-04	0.93
ELM-9.10	7.4208E-07	2.0580E-08	2.70	2.4527E-04	8.27E-03	-7.6956E-03	2.8939E-04	0.93
ELM-9.15	7.7564E-07	2.0393E-08	2.56	2.4272E-04	8.64E-03	-8.0702E-03	2.8509E-04	0.93
ELM-9.20	7.7911E-07	2.0667E-08	2.58	2.4070E-04	8.75E-03	-8.1790E-03	2.8660E-04	0.93
ELM-9.25	7.8327E-07	2.0124E-08	2.50	2.3970E-04	8.79E-03	-8.2104E-03	2.8865E-04	0.93
ELM-9.30	8.0655E-07	2.1072E-08	2.55	2.5175E-04	9.10E-03	-8.4713E-03	3.1577E-04	0.93
ELM-9.35	8.1990E-07	1.9226E-08	2.29	2.4604E-04	9.44E-03	-8.8076E-03	3.1378E-04	0.93
ELM-9.40	8.1143E-07	2.0146E-08	2.42	2.4754E-04	9.32E-03	-8.6765E-03	3.1931E-04	0.93
ELM-9.45	8.1514E-07	1.8582E-08	2.23	2.3557E-04	9.24E-03	-8.6166E-03	3.1392E-04	0.93

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	HFMS (m3/kg)	FDMS (m3/kg)	FDMS%	ARM (Am2/kg)	IRM 1.2T (Am2/kg)	IRM-0.3T (Am2/kg)	HIRM (Am2/kg)	S
ELM-9.50	8.0871E-07	1.9331E-08	2.33	2.3661E-04	9.13E-03	-8.5532E-03	2.8723E-04	0.94
ELM-9.55	7.7560E-07	1.8979E-08	2.39	2.3613E-04	8.89E-03	-8.2905E-03	2.9991E-04	0.93
ELM-9.60	7.7925E-07	1.9713E-08	2.47	2.4634E-04	8.98E-03	-8.4167E-03	2.8125E-04	0.94
ELM-9.65	7.8539E-07	2.0926E-08	2.60	2.4180E-04	9.19E-03	-8.5875E-03	3.0297E-04	0.93
ELM-9.70	7.8888E-07	1.9303E-08	2.39	2.3900E-04	9.28E-03	-8.6938E-03	2.9258E-04	0.94
ELM-9.75	7.9596E-07	1.9632E-08	2.41	2.4270E-04	9.38E-03	-8.7426E-03	3.1753E-04	0.93
ELM-9.80	7.9670E-07	2.0764E-08	2.54	2.5022E-04	9.51E-03	-8.8810E-03	3.1493E-04	0.93
ELM-9.85	7.7738E-07	1.8826E-08	2.36	2.4807E-04	9.32E-03	-8.7081E-03	3.0708E-04	0.93
ELM-9.90	7.6306E-07	1.9265E-08	2.46	2.4781E-04	9.19E-03	-8.5739E-03	3.1003E-04	0.93
ELM-9.95	8.1505E-07	2.3685E-08	2.82	2.6183E-04	9.52E-03	-8.8975E-03	3.1163E-04	0.93
ELM-10.00	8.2743E-07	2.7134E-08	3.18	2.7933E-04	9.68E-03	-8.9883E-03	3.4490E-04	0.93
ELM-10.05	8.7991E-07	2.9053E-08	3.20	2.9039E-04	1.01E-02	-9.4348E-03	3.5062E-04	0.93
ELM-10.10	8.9056E-07	3.1006E-08	3.36	3.1716E-04	1.02E-02	-9.5014E-03	3.6379E-04	0.93
ELM-10.15	8.8032E-07	3.1859E-08	3.49	3.3351E-04	1.00E-02	-9.2561E-03	3.7409E-04	0.93
ELM-10.20	8.6313E-07	3.2242E-08	3.60	3.3072E-04	9.90E-03	-9.1805E-03	3.6152E-04	0.93
"Bulk" Section								
EL1	6.4809E-07	1.1528E-08	1.75	8.2283E-05	4.15E-03	-3.8328E-03	1.6040E-04	0.92
EL2	3.9267E-07	1.4573E-09	0.37	4.0925E-05	2.50E-03	-2.2802E-03	1.0991E-04	0.91
EL3	3.8876E-07	4.4952E-09	1.14	4.1652E-05	2.46E-03	-2.2308E-03	1.1273E-04	0.91
EL-4	4.1433E-07	3.8488E-09	0.92	4.5395E-05	2.68E-03	-2.4264E-03	1.2566E-04	0.91
EL-5	4.8138E-07	6.8491E-09	1.40	5.7425E-05	3.16E-03	-2.8769E-03	1.3907E-04	0.91
EL-6	4.7472E-07	5.1827E-09	1.08	6.9972E-05	3.03E-03	-2.7076E-03	1.5890E-04	0.89
EL-7	4.2271E-07	6.9507E-09	1.62	5.4237E-05	2.46E-03	-2.1395E-03	1.6184E-04	0.87
EL-8	2.6401E-07	2.3955E-06	90.07	3.3288E-05	1.43E-03	-1.1291E-03	1.5119E-04	0.79
EL-9	3.1391E-07	4.6749E-09	1.47	4.0073E-05	1.60E-03	-1.2908E-03	1.5293E-04	0.81
EL-10	3.2023E-07	2.1736E-09	0.67	4.2101E-05	1.64E-03	-1.3264E-03	1.5584E-04	0.81
EL-11	3.2375E-07	7.2671E-09	2.20	4.5235E-05	1.80E-03	-1.4708E-03	1.6371E-04	0.82
EL-12	3.2482E-07	5.0697E-10	0.16	6.6969E-05	1.89E-03	-1.5127E-03	1.8887E-04	0.80
EL-13	5.7692E-07	2.3341E-08	3.89	1.8629E-04	4.13E-03	-3.6900E-03	2.2014E-04	0.89
EL-14	8.5893E-07	3.5959E-08	4.02	2.4210E-04	6.68E-03	-6.1893E-03	2.4585E-04	0.93
EL-15	8.6807E-07	3.1842E-08	3.54	2.0676E-04	6.49E-03	-6.0043E-03	2.4266E-04	0.93
EL-16	8.2673E-07	2.8969E-08	3.39	2.4070E-04	6.19E-03	-5.6831E-03	2.5308E-04	0.92
EL-17	7.4698E-07	3.0368E-08	3.91	2.1778E-04	5.33E-03	-4.8463E-03	2.4192E-04	0.91
EL-18	6.0890E-07	2.5668E-08	4.04	1.7199E-04	4.08E-03	-3.6558E-03	2.1206E-04	0.90
EL-19	8.1177E-07	2.3696E-08	2.84	1.6431E-04	6.64E-03	-6.1194E-03	2.5831E-04	0.92
EL-20	7.8524E-07	2.1574E-08	2.67	1.7971E-04	6.02E-03	-5.5671E-03	2.2723E-04	0.92
EL-21	8.0181E-07	2.0217E-08	2.46	1.6648E-04	6.32E-03	-5.8386E-03	2.4145E-04	0.92

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	ARM/MS (A/m)	SIRM/MS (A/m)	MS/SIRM (m/A)
Elba Modern Soil			
EL-101	313.8	8665	1.15E-04
EL-102	321.1	8510	1.18E-04
EL-103	285.1	7972	1.25E-04
EL-104	233.6	7587	1.32E-04
EL-105	190.0	7468	1.34E-04
EL-106	183.6	7769	1.29E-04
EL-107	184.2	8145	1.23E-04
EL-108	178.0	8369	1.19E-04
EL-109	262.7	9597	1.04E-04
Detailed Section			
ELM-0.15	166.6	9300	1.08E-04
ELM-0.20	162.5	9251	1.08E-04
ELM-0.25	160.6	9046	1.11E-04
ELM-0.30	163.7	9125	1.10E-04
ELM-0.35	161.8	8905	1.12E-04
ELM-0.40	162.2	8862	1.13E-04
ELM-0.45	157.4	8704	1.15E-04
ELM-0.50	158.4	8864	1.13E-04
ELM-0.55	164.4	9148	1.09E-04
ELM-0.60	152.9	9001	1.11E-04
ELM-0.65	162.1	9025	1.11E-04
ELM-0.70	158.4	9006	1.11E-04
ELM-0.75	160.0	9068	1.10E-04
ELM-0.80	166.9	9530	1.05E-04
ELM-0.85	167.8	9370	1.07E-04
ELM-0.90	173.9	9420	1.06E-04
ELM-0.95	181.9	9621	1.04E-04
ELM-1.00	183.7	9676	1.03E-04
ELM-1.05	162.0	8938	1.12E-04
ELM-1.10	161.2	8961	1.12E-04
ELM-1.15	165.9	9115	1.10E-04
ELM-1.20	167.6	8980	1.11E-04
ELM-1.25	161.8	8961	1.12E-04
ELM-1.30	167.8	9026	1.11E-04
ELM-1.35	163.5	8818	1.13E-04
ELM-1.40	162.8	9283	1.08E-04
ELM-1.45	159.6	9113	1.10E-04
ELM-1.50	164.2	9264	1.08E-04
ELM-1.55	165.4	9236	1.08E-04
ELM-1.60	166.1	9300	1.08E-04
ELM-1.65	164.2	9338	1.07E-04
ELM-1.70	170.3	9450	1.06E-04
ELM-1.75	170.3	9393	1.06E-04
ELM-1.80	170.9	9493	1.05E-04
ELM-1.85	169.9	9199	1.09E-04
ELM-1.90	172.4	9328	1.07E-04
ELM-1.95	173.2	9404	1.06E-04

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	ARM/MS (A/m)	SIRM/MS (A/m)	MS/SIRM (m/A)
ELM-2.00	168.2	8459	1.18E-04
ELM-2.05	177.2	9445	1.06E-04
ELM-2.10	180.4	9579	1.04E-04
ELM-2.15	175.6	9490	1.05E-04
ELM-2.20	187.1	9740	1.03E-04
ELM-2.25	184.8	9539	1.05E-04
ELM-2.30	200.8	9915	1.01E-04
ELM-2.35	187.4	9534	1.05E-04
ELM-2.40	218.5	9958	1.00E-04
ELM-2.45	222.5	9697	1.03E-04
ELM-2.50	229.9	9390	1.06E-04
ELM-2.55	218.9	8845	1.13E-04
ELM-2.60	189.2	8756	1.14E-04
ELM-2.65	200.1	8841	1.13E-04
ELM-2.70	198.0	8737	1.14E-04
ELM-2.75	231.8	9061	1.10E-04
ELM-2.80	221.6	9149	1.09E-04
ELM-2.85	215.1	9197	1.09E-04
ELM-2.90	220.0	9027	1.11E-04
ELM-2.95	204.0	8601	1.16E-04
ELM-3.00	198.6	7885	1.27E-04
ELM-3.05	189.0	8686	1.15E-04
ELM-3.10	181.2	8603	1.16E-04
ELM-3.15	185.5	8434	1.19E-04
ELM-3.20	193.4	8427	1.19E-04
ELM-3.25	188.1	8557	1.17E-04
ELM-3.30	182.5	8589	1.16E-04
ELM-3.35	170.4	8448	1.18E-04
ELM-3.40	165.7	8321	1.20E-04
ELM-3.45	179.5	8033	1.24E-04
ELM-3.50	165.1	7930	1.26E-04
ELM-3.55	180.6	8089	1.24E-04
ELM-3.60	183.2	7656	1.31E-04
ELM-3.65	192.2	7396	1.35E-04
ELM-3.70	191.7	7357	1.36E-04
ELM-3.75	201.2	7616	1.31E-04
ELM-3.80	203.2	7526	1.33E-04
ELM-3.85	203.6	7502	1.33E-04
ELM-3.90	195.5	7231	1.38E-04
ELM-3.95	204.2	7511	1.33E-04
ELM-4.00	194.5	7612	1.31E-04
ELM-4.05	190.7	7292	1.37E-04
ELM-4.10	184.9	7173	1.39E-04
ELM-4.15	199.1	7411	1.35E-04
ELM-4.20	206.4	7506	1.33E-04
ELM-4.25	184.5	7226	1.38E-04
ELM-4.30	201.6	7436	1.34E-04
ELM-4.35	199.0	7190	1.39E-04
ELM-4.40	199.5	7445	1.34E-04
ELM-4.45	185.9	7390	1.35E-04

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	ARM/MS (A/m)	SIRM/MS (A/m)	MS/SIRM (m/A)
ELM-4.50	183.8	7391	1.35E-04
ELM-4.55	191.5	7464	1.34E-04
ELM-4.60	191.8	7892	1.27E-04
ELM-4.65	205.2	7276	1.37E-04
ELM-4.70	236.7	7796	1.28E-04
ELM-4.75	305.4	8187	1.22E-04
ELM-4.80	337.1	8527	1.17E-04
ELM-4.85	339.0	8724	1.15E-04
ELM-4.90	302.0	8362	1.20E-04
ELM-4.95	479.3	9055	1.10E-04
ELM-5.00	497.7	9241	1.08E-04
ELM-5.05	470.3	9691	1.03E-04
ELM-5.10	501.8	9304	1.07E-04
ELM-5.15	456.9	9137	1.09E-04
ELM-5.20	498.0	9044	1.11E-04
ELM-5.25	467.7	9241	1.08E-04
ELM-5.30	422.2	9910	1.01E-04
ELM-5.35	404.4	10671	9.37E-05
ELM-5.40	378.8	10410	9.61E-05
ELM-5.45	378.4	10603	9.43E-05
ELM-5.50	443.2	9909	1.01E-04
ELM-5.55	339.7	10038	9.96E-05
ELM-5.60	328.6	9962	1.00E-04
ELM-5.65	325.5	9938	1.01E-04
ELM-5.70	312.1	10079	9.92E-05
ELM-5.75	332.9	10344	9.67E-05
ELM-5.80	328.4	10279	9.73E-05
ELM-5.85	327.7	10337	9.67E-05
ELM-5.90	339.2	10344	9.67E-05
ELM-5.95	333.8	10167	9.84E-05
ELM-6.00	361.6	10525	9.50E-05
ELM-6.05	368.0	10406	9.61E-05
ELM-6.10	379.6	10439	9.58E-05
ELM-6.15	374.9	10481	9.54E-05
ELM-6.20	372.2	10154	9.85E-05
ELM-6.25	367.1	10226	9.78E-05
ELM-6.30	377.0	10259	9.75E-05
ELM-6.35	364.4	10268	9.74E-05
ELM-6.40	366.6	10277	9.73E-05
ELM-6.45	362.7	10226	9.78E-05
ELM-6.50	358.0	10146	9.86E-05
ELM-6.55	356.1	10108	9.89E-05
ELM-6.60	361.7	10128	9.87E-05
ELM-6.65	360.8	10081	9.92E-05
ELM-6.70	360.8	10283	9.72E-05
ELM-6.75	371.2	10049	9.95E-05
ELM-6.80	372.7	10215	9.79E-05
ELM-6.85	379.4	10203	9.80E-05
ELM-6.90	370.1	9944	1.01E-04
ELM-6.95	373.9	9867	1.01E-04

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	ARM/MS (A/m)	SIRM/MS (A/m)	MS/SIRM (m/A)
ELM-7.00	392.4	10110	9.89E-05
ELM-7.05	389.1	10043	9.96E-05
ELM-7.10	382.8	9983	1.00E-04
ELM-7.15	371.9	9787	1.02E-04
ELM-7.20	394.9	9819	1.02E-04
ELM-7.25	384.7	9749	1.03E-04
ELM-7.30	386.0	9862	1.01E-04
ELM-7.35	390.7	9533	1.05E-04
ELM-7.40	372.2	10124	9.88E-05
ELM-7.45	404.1	9811	1.02E-04
ELM-7.50	391.6	9722	1.03E-04
ELM-7.55	414.2	10019	9.98E-05
ELM-7.60	409.6	10080	9.92E-05
ELM-7.65	381.3	9734	1.03E-04
ELM-7.70	405.4	10111	9.89E-05
ELM-7.75	420.9	9867	1.01E-04
ELM-7.80	417.9	9901	1.01E-04
ELM-7.85	421.8	10096	9.90E-05
ELM-7.90	417.9	10317	9.69E-05
ELM-7.95	410.0	10463	9.56E-05
ELM-8.00	388.1	10069	9.93E-05
ELM-8.05	374.6	10507	9.52E-05
ELM-8.10	385.5	9936	1.01E-04
ELM-8.15	373.5	11025	9.07E-05
ELM-8.20	344.0	10957	9.13E-05
ELM-8.25	351.0	11195	8.93E-05
ELM-8.30	349.8	11020	9.07E-05
ELM-8.35	338.7	10871	9.20E-05
ELM-8.40	342.9	10887	9.19E-05
ELM-8.45	363.9	11026	9.07E-05
ELM-8.50	372.6	11024	9.07E-05
ELM-8.55	354.0	10842	9.22E-05
ELM-8.60	341.2	10889	9.18E-05
ELM-8.65	349.8	10907	9.17E-05
ELM-8.70	347.6	10953	9.13E-05
ELM-8.75	342.8	10801	9.26E-05
ELM-8.80	332.7	10739	9.31E-05
ELM-8.85	330.2	10730	9.32E-05
ELM-8.90	326.1	10792	9.27E-05
ELM-8.95	306.9	10747	9.30E-05
ELM-9.00	322.1	10854	9.21E-05
ELM-9.05	324.2	10751	9.30E-05
ELM-9.10	321.6	10849	9.22E-05
ELM-9.15	304.9	10854	9.21E-05
ELM-9.20	301.0	10943	9.14E-05
ELM-9.25	298.4	10938	9.14E-05
ELM-9.30	304.2	10999	9.09E-05
ELM-9.35	293.2	11244	8.89E-05
ELM-9.40	297.7	11202	8.93E-05
ELM-9.45	282.5	11088	9.02E-05

Table 1. Sediment Magnetic Data from the Elba Cut, Howard County, Nebraska

Sample No.	ARM/MS (A/m)	SIRM/MS (A/m)	MS/SIRM (m/A)
ELM-9.50	285.7	11023	9.07E-05
ELM-9.55	297.2	11189	8.94E-05
ELM-9.60	308.3	11239	8.90E-05
ELM-9.65	299.9	11402	8.77E-05
ELM-9.70	295.7	11481	8.71E-05
ELM-9.75	297.6	11498	8.70E-05
ELM-9.80	306.1	11635	8.60E-05
ELM-9.85	311.6	11708	8.54E-05
ELM-9.90	316.8	11752	8.51E-05
ELM-9.95	312.2	11351	8.81E-05
ELM-10.00	326.9	11325	8.83E-05
ELM-10.05	319.5	11151	8.97E-05
ELM-10.10	344.2	11100	9.01E-05
ELM-10.15	365.6	10967	9.12E-05
ELM-10.20	369.4	11061	9.04E-05
"Bulk" Section			
EL1	124.7	6297	1.59E-04
EL2	103.8	6343	1.58E-04
EL3	105.9	6246	1.60E-04
EL-4	108.6	6403	1.56E-04
EL-5	117.6	6462	1.55E-04
EL-6	145.8	6304	1.59E-04
EL-7	126.2	5733	1.74E-04
EL-8	12.5	538	1.86E-03
EL-9	125.8	5012	2.00E-04
EL-10	130.6	5081	1.97E-04
EL-11	136.7	5433	1.84E-04
EL-12	205.9	5811	1.72E-04
EL-13	310.4	6881	1.45E-04
EL-14	270.5	7466	1.34E-04
EL-15	229.8	7211	1.39E-04
EL-16	281.3	7233	1.38E-04
EL-17	280.2	6857	1.46E-04
EL-18	271.0	6430	1.56E-04
EL-19	196.7	7943	1.26E-04
EL-20	222.7	7463	1.34E-04
EL-21	202.5	7690	1.30E-04

Table 2. Magnetic Susceptibility vs. Temperature Data from the Elba Cut, Fullerton Canal, Howard County, Nebraska.

Sample No: A unique number assigned to loess and/or sediment samples.

Heating Time (sec): The time in seconds during the progressive heating experiment.

Heating Susceptibility (raw): The raw susceptibility value ($\times 10^{-6}$ SI) for the sample during the progressive heating experiment.

Heating Susceptibility (corrected): The corrected susceptibility value ($\times 10^{-6}$ SI) during progressive heating after subtracting out the diamagnetic effects of the quartz tube and Al_2O_3 powder.

Cooling Time (sec): The time in seconds during the progressive cooling of the sample following the attainment of peak heating temperatures.

Cooling Susceptibility (raw): The raw susceptibility value ($\times 10^{-6}$ SI) for the sample during progressive cooling.

Cooling Susceptibility (corrected): The corrected susceptibility value ($\times 10^{-6}$ SI) during cooling after subtracting out the diamagnetic effects of the quartz tube and Al_2O_3 powder.

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples FROM the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-103	18	24.9	-53.28	87.7773	2620	673.0	-151.10	-4.8069
EL-103	33	28.2	-53.00	88.0839	2637	671.6	-150.30	-4.0182
EL-103	49	32.7	-52.93	88.1903	2655	669.8	-152.00	-5.7328
EL-103	64	37.5	-52.69	88.4690	2672	667.2	-151.10	-4.8538
EL-103	80	42.5	-52.93	88.2695	2689	664.3	-151.60	-5.3772
EL-103	95	47.6	-52.42	88.8207	2706	661.1	-150.80	-4.6030
EL-103	110	52.1	-52.36	88.9170	2723	657.9	-150.40	-4.2289
EL-103	126	57.0	-51.88	89.4366	2740	653.9	-150.70	-4.5612
EL-103	141	61.5	-51.59	89.7629	2757	649.6	-151.70	-5.5959
EL-103	157	65.6	-51.94	89.4461	2774	645.7	-151.20	-5.1275
EL-103	172	70.0	-51.55	89.8716	2791	641.8	-152.00	-5.9590
EL-103	188	74.3	-50.96	90.4964	2808	637.9	-149.30	-3.2905
EL-103	203	78.4	-51.29	90.1995	2825	633.6	-151.30	-5.3252
EL-103	218	82.6	-50.74	90.7834	2842	630.1	-150.00	-4.0535
EL-103	234	86.7	-50.87	90.6865	2859	625.9	-149.70	-3.7874
EL-103	249	90.3	-51.32	90.2656	2876	621.6	-150.80	-4.9222
EL-103	265	94.2	-49.99	91.6271	2894	617.4	-149.90	-4.0561
EL-103	280	97.8	-51.00	90.6462	2910	613.6	-148.90	-3.0868
EL-103	296	101.4	-50.66	91.0153	2928	609.4	-149.30	-3.5207
EL-103	311	104.8	-50.76	90.9428	2945	605.6	-149.00	-3.2514
EL-103	326	108.5	-50.26	91.4726	2962	601.8	-148.80	-3.0821
EL-103	342	112.1	-50.75	91.0117	2979	597.6	-148.20	-2.5160
EL-103	357	115.5	-50.52	91.2692	2996	593.8	-148.00	-2.3467
EL-103	373	119.2	-50.55	91.2691	3013	589.7	-148.10	-2.4799
EL-103	388	122.9	-49.97	91.8790	3030	585.9	-146.30	-0.7106
EL-103	403	126.8	-50.54	91.3405	3047	581.8	-145.90	-0.3437
EL-103	419	130.5	-50.13	91.7804	3064	577.7	-143.70	1.8232
EL-103	434	134.2	-49.89	92.0503	3081	573.7	-143.60	1.8909
EL-103	449	137.9	-50.44	91.5302	3098	569.6	-143.00	2.4577
EL-103	465	141.4	-49.99	92.0084	3116	565.5	-139.80	5.6246
EL-103	480	144.8	-49.83	92.1959	3133	561.1	-139.70	5.6891
EL-103	495	148.5	-50.07	91.9858	3150	557.1	-137.90	7.4568
EL-103	511	152.3	-49.36	92.7265	3167	552.7	-136.40	8.9212
EL-103	526	156.0	-49.64	92.4764	3184	548.4	-133.00	12.2865
EL-103	541	159.8	-48.82	93.3271	3200	543.7	-130.00	15.2485
EL-103	557	163.5	-49.20	92.9770	3218	539.4	-127.60	17.6138
EL-103	572	167.3	-48.91	93.2977	3235	535.1	-123.30	21.8790
EL-103	587	171.0	-49.00	93.2376	3252	530.8	-120.80	24.3443
EL-103	602	174.5	-48.88	93.3858	3267	526.8	-117.30	27.8120
EL-103	618	178.3	-49.19	93.1065	3283	523.2	-113.80	31.2829
EL-103	633	182.1	-48.59	93.7372	3298	519.2	-111.30	33.7506
EL-103	648	185.9	-48.03	94.3279	3314	515.3	-108.20	36.8191
EL-103	664	189.7	-48.19	94.1986	3329	511.7	-105.50	39.4900
EL-103	679	193.8	-47.45	94.9718	3345	507.8	-103.40	41.5585
EL-103	694	197.6	-47.50	94.9525	3360	503.9	-101.60	43.3270
EL-103	710	201.7	-47.38	95.1056	3376	500.3	-100.30	44.5979
EL-103	725	205.5	-47.56	94.9563	3391	496.4	-98.94	45.9264
EL-103	741	209.4	-47.56	94.9878	3407	492.6	-98.04	46.7957
EL-103	756	213.2	-46.98	95.5985	3422	488.7	-97.37	47.4342

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-103	771	217.4	-46.13	96.4824	3438	485.2	-97.00	47.7759
EL-103	786	221.5	-45.82	96.8255	3453	481.3	-96.27	48.4744
EL-103	802	225.4	-45.77	96.9070	3468	477.5	-95.94	48.7737
EL-103	817	229.5	-46.18	96.5302	3484	473.6	-95.74	48.9422
EL-103	833	233.4	-46.21	96.5317	3499	469.8	-95.39	49.2615
EL-103	848	237.6	-45.02	97.7556	3515	466.0	-94.84	49.7808
EL-103	864	241.8	-44.47	98.3395	3530	462.2	-94.37	50.2201
EL-103	879	245.7	-44.04	98.8011	3546	458.4	-94.51	50.0494
EL-103	894	249.4	-44.18	98.6909	3561	454.6	-94.47	50.0587
EL-103	910	253.3	-43.83	99.0725	3577	450.8	-94.27	50.2280
EL-103	925	257.2	-43.85	99.0840	3592	447.0	-94.34	50.1273
EL-103	941	261.2	-43.10	99.8663	3608	443.3	-94.54	49.8974
EL-103	956	264.9	-43.67	99.3262	3623	439.5	-94.71	49.6967
EL-103	971	269.1	-43.68	99.3501	3639	435.8	-94.39	49.9868
EL-103	987	273.1	-42.61	100.4524	3654	431.7	-94.76	49.5837
EL-103	1002	277.1	-42.53	100.5647	3670	428.0	-94.94	49.3738
EL-103	1018	281.4	-42.11	101.0195	3685	424.0	-94.95	49.3315
EL-103	1033	285.4	-41.63	101.5318	3701	420.0	-95.10	49.1492
EL-103	1048	289.7	-42.24	100.9565	3716	415.9	-95.15	49.0661
EL-103	1063	293.7	-42.21	101.0188	3732	411.9	-95.31	48.8737
EL-103	1079	297.7	-42.59	100.6711	3747	408.3	-95.70	48.4547
EL-103	1094	301.7	-41.86	101.4335	3762	404.3	-95.52	48.6023
EL-103	1109	305.8	-42.42	100.9066	3778	400.6	-96.06	48.0324
EL-103	1125	309.8	-41.96	101.3989	3793	396.9	-95.93	48.1326
EL-103	1140	313.9	-42.33	101.0620	3809	393.0	-96.11	47.9211
EL-103	1155	317.7	-41.13	102.2927	3824	389.3	-96.35	47.6512
EL-103	1171	321.8	-42.18	101.2758	3839	385.4	-96.30	47.6697
EL-103	1186	325.9	-41.50	101.9890	3855	381.5	-96.42	47.5181
EL-103	1201	329.7	-42.00	101.5197	3870	377.5	-96.46	47.4458
EL-103	1216	333.8	-42.53	101.0228	3885	373.9	-96.84	47.0367
EL-103	1232	337.6	-42.88	100.7035	3901	370.0	-97.28	46.5652
EL-103	1247	341.7	-42.92	100.6966	3916	366.7	-97.05	46.7686
EL-103	1262	345.6	-43.36	100.2881	3932	362.8	-97.09	46.6971
EL-103	1277	349.7	-43.90	99.7812	3947	359.3	-97.29	46.4688
EL-103	1293	353.9	-43.49	100.2252	3963	355.7	-97.48	46.2497
EL-103	1308	357.8	-44.20	99.5467	3978	351.8	-97.78	45.9182
EL-103	1323	361.6	-43.59	100.1874	3993	348.3	-97.48	46.1899
EL-103	1338	365.8	-44.43	99.3813	4009	344.4	-98.06	45.5784
EL-103	1353	370.0	-44.47	99.3752	4024	340.6	-98.27	45.3377
EL-103	1369	373.9	-44.50	99.3767	4039	337.0	-98.31	45.2686
EL-103	1384	377.8	-45.92	97.9883	4055	333.2	-98.21	45.3379
EL-103	1399	382.1	-46.26	97.6830	4070	329.4	-98.54	44.9772
EL-103	1414	386.0	-46.91	97.0645	4086	325.9	-98.44	45.0490
EL-103	1429	390.2	-47.44	96.5684	4101	322.1	-98.66	44.7983
EL-103	1444	394.2	-47.16	96.8807	4116	318.6	-98.69	44.7400
EL-103	1459	398.5	-48.37	95.7055	4132	314.8	-98.65	44.7493
EL-103	1474	402.4	-48.97	95.1370	4147	311.0	-98.97	44.3986
EL-103	1490	406.4	-49.45	94.6893	4163	307.2	-99.14	44.1979
EL-103	1505	410.4	-50.18	93.9916	4178	303.5	-99.23	44.0780

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-103	1520	414.4	-51.96	92.2439	4193	299.4	-99.33	43.9449
EL-103	1535	418.4	-51.63	92.6063	4208	296.0	-99.31	43.9374
EL-103	1550	422.7	-53.23	91.0410	4224	292.2	-99.44	43.7767
EL-103	1565	427.1	-54.42	89.8865	4239	288.8	-99.36	43.8292
EL-103	1580	431.1	-56.03	88.3089	4254	285.1	-99.71	43.4494
EL-103	1595	435.2	-56.84	87.5320	4270	281.4	-99.58	43.5495
EL-103	1610	439.2	-58.00	86.4043	4285	277.6	-99.71	43.3888
EL-103	1625	443.3	-59.54	84.8974	4300	274.2	-99.68	43.3913
EL-103	1640	447.4	-61.00	83.4705	4315	270.5	-99.67	43.3714
EL-103	1655	451.1	-62.77	81.7304	4331	266.9	-99.79	43.2223
EL-103	1671	455.2	-63.91	80.6235	4346	263.2	-100.10	42.8824
EL-103	1686	459.0	-65.41	79.1542	4361	259.2	-99.92	43.0301
EL-103	1701	463.1	-66.23	78.3674	4376	255.3	-100.10	42.8186
EL-103	1716	467.3	-67.75	76.8813	4392	251.9	-99.96	42.9311
EL-103	1731	471.1	-70.18	74.4820	4407	248.2	-99.93	42.9312
EL-103	1747	475.2	-71.11	73.5851	4422	244.6	-99.68	43.1522
EL-103	1762	479.4	-73.79	70.9391	4437	240.7	-100.20	42.6007
EL-103	1777	483.5	-75.02	69.7422	4453	237.3	-99.90	42.8732
EL-103	1792	487.4	-77.33	67.4637	4468	233.7	-100.30	42.4441
EL-103	1808	491.3	-79.40	65.4252	4483	229.8	-99.97	42.7426
EL-103	1823	495.5	-80.43	64.4291	4499	226.2	-99.97	42.7135
EL-103	1838	499.4	-82.99	61.9006	4514	222.6	-100.10	42.5544
EL-103	1854	503.6	-85.02	59.9046	4529	219.3	-100.30	42.3278
EL-103	1869	507.5	-87.51	57.4461	4544	215.7	-100.00	42.5987
EL-103	1884	511.7	-90.60	54.3900	4559	212.1	-100.30	42.2696
EL-103	1899	516.0	-93.93	51.0947	4574	208.8	-100.10	42.4429
EL-103	1914	519.9	-97.75	47.3062	4590	205.5	-100.20	42.3163
EL-103	1930	524.2	-100.50	44.5910	4605	202.0	-100.20	42.2880
EL-103	1945	528.5	-103.90	41.2257	4620	198.4	-100.30	42.1589
EL-103	1960	532.4	-106.20	38.9572	4635	194.9	-100.30	42.1307
EL-103	1976	536.4	-109.80	35.3895	4650	191.6	-100.30	42.1040
EL-103	1991	540.7	-113.30	31.9243	4665	188.3	-100.30	42.0773
EL-103	2008	545.7	-117.60	27.6647	4680	184.8	-100.00	42.3490
EL-103	2025	550.1	-121.70	23.6002	4695	181.6	-100.10	42.2232
EL-103	2042	552.7	-123.10	22.2212	4710	178.3	-99.97	42.3265
EL-103	2059	555.4	-124.20	21.1430	4725	174.8	-100.20	42.0683
EL-103	2076	557.4	-127.40	17.9592	4740	171.3	-100.20	42.0400
EL-103	2093	559.5	-128.00	17.3762	4755	168.1	-100.10	42.1141
EL-103	2110	561.8	-129.60	15.7947	4770	164.6	-100.20	41.9859
EL-103	2127	564.5	-132.40	13.0166	4785	161.4	-100.10	42.0600
EL-103	2144	567.2	-133.80	11.6384	4800	158.1	-100.10	42.0334
EL-103	2161	570.6	-134.80	10.6658	4816	154.7	-100.20	41.9059
EL-103	2178	574.3	-136.20	9.2957	4831	151.5	-100.20	41.8800
EL-103	2194	577.7	-137.40	8.1232	4846	148.3	-100.10	41.9542
EL-103	2212	581.2	-139.90	5.6515	4861	145.1	-100.00	42.0283
EL-103	2228	585.3	-142.00	3.5846	4876	141.6	-100.10	41.9001
EL-103	2246	589.0	-146.50	-0.8855	4891	138.4	-99.99	41.9842
EL-103	2262	592.8	-146.30	-0.6548	4906	135.3	-100.00	41.9492
EL-103	2279	596.6	-145.80	-0.1241	4921	132.1	-99.91	42.0133

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-103	2296	600.4	-148.20	-2.4934	4937	128.9	-99.80	42.0974
EL-103	2313	604.9	-146.60	-0.8571	4952	125.5	-100.10	41.7700
EL-103	2330	608.7	-148.10	-2.3264	4967	122.4	-99.65	42.1949
EL-103	2347	613.9	-149.80	-3.9844	4982	119.5	-99.68	42.1415
EL-103	2364	619.5	-149.50	-3.6391	4997	116.3	-99.70	42.0957
EL-103	2381	625.2	-149.00	-3.0931	5013	113.2	-99.42	42.3506
EL-103	2398	630.1	-150.60	-4.6535	5028	109.8	-99.64	42.1032
EL-103	2415	635.4	-149.90	-3.9107	5043	106.7	-99.29	42.4281
EL-103	2432	641.1	-149.50	-3.4646	5059	103.3	-99.51	42.1806
EL-103	2449	645.7	-149.80	-3.7275	5074	100.1	-99.45	42.2148
EL-103	2467	650.0	-150.60	-4.4927	5089	97.0	-99.17	42.4697
EL-103	2483	653.9	-151.90	-5.7612	5104	93.9	-99.20	42.4147
EL-103	2501	658.6	-151.50	-5.3232	5120	90.8	-99.24	42.3497
EL-103	2518	662.9	-150.90	-4.6885	5135	87.7	-99.07	42.4946
EL-103	2535	666.5	-151.10	-4.8594	5150	84.9	-99.07	42.4720
EL-103	2552	669.4	-151.20	-4.9360	5166	82.0	-99.22	42.2986
EL-103	2569	671.6	-150.70	-4.4182	5181	79.2	-99.04	42.4559
EL-103	2586	672.7	-151.30	-5.0093	5196	76.4	-98.93	42.5433
EL-103	2603	673.4	-151.30	-5.0037	5212	73.6	-98.90	42.5507
EL-103					5227	71.0	-99.04	42.3897
EL-103					5242	68.4	-98.77	42.6387
EL-103					5258	65.9	-98.83	42.5585
EL-103					5273	63.6	-98.81	42.5599
EL-103					5288	61.3	-98.80	42.5513
EL-103					5303	59.0	-98.76	42.5728
EL-103					5319	56.4	-98.69	42.6217
EL-103					5335	53.7	-98.63	42.6599
EL-103					5350	50.9	-98.60	42.6673
EL-103					5366	48.3	-98.62	42.6263
EL-103					5381	45.8	-98.59	42.6361
EL-103					5396	43.8	-98.64	42.5700
EL-103					5412	41.7	-98.68	42.5130
EL-103					5427	40.0	-98.68	42.4992
EL-3	0	23.1	-9.51	131.5367	2674	670.5	-150.60	-4.3271
EL-3	17	24.1	-9.33	131.7208	2691	669.0	-152.10	-5.8392
EL-3	32	27.2	-9.24	131.8328	2709	667.2	-152.50	-6.2538
EL-3	47	31.2	-8.72	132.3852	2726	664.7	-153.30	-7.0740
EL-3	62	35.7	-8.42	132.7295	2743	662.2	-152.50	-6.2942
EL-3	77	40.5	-8.08	133.1043	2760	658.9	-150.60	-4.4208
EL-3	92	45.0	-8.06	133.1576	2777	655.7	-150.20	-4.0467
EL-3	107	49.6	-7.49	133.7648	2795	652.5	-149.40	-3.2725
EL-3	122	54.2	-7.15	134.1460	2812	648.5	-148.30	-2.2048
EL-3	137	58.5	-7.05	134.2757	2829	645.0	-152.30	-6.2331
EL-3	152	62.3	-6.77	134.5924	2847	641.4	-151.80	-5.7622
EL-3	167	66.4	-6.49	134.9005	2864	637.9	-149.80	-3.7905
EL-3	182	70.0	-6.45	134.9706	2881	634.0	-151.20	-5.2220
EL-3	197	73.8	-6.05	135.4053	2898	630.1	-149.50	-3.5535
EL-3	212	77.7	-5.96	135.5228	2915	626.2	-149.70	-3.7850

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples FROM the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-3	227	81.3	-5.74	135.7779	2932	622.3	-151.70	-5.8165
EL-3	242	85.1	-5.81	135.7296	2949	618.1	-149.90	-4.0504
EL-3	257	88.7	-5.40	136.1717	2967	614.3	-148.40	-2.5811
EL-3	272	92.1	-5.32	136.2851	2984	610.1	-147.80	-2.0151
EL-3	287	95.5	-5.43	136.1966	3001	605.6	-148.80	-3.0514
EL-3	302	98.8	-4.82	136.8373	3018	601.4	-148.40	-2.6853
EL-3	317	102.2	-4.62	137.0627	3035	597.3	-146.00	-0.3185
EL-3	332	105.6	-4.94	136.7722	3053	593.2	-148.20	-2.5516
EL-3	347	109.0	-4.65	137.0917	3070	589.0	-148.30	-2.6855
EL-3	362	112.4	-3.94	137.8221	3087	584.9	-146.10	-0.5186
EL-3	377	115.8	-4.09	137.7056	3104	580.8	-141.60	3.9482
EL-3	392	118.9	-4.04	137.7727	3122	577.1	-142.10	3.4183
EL-3	407	122.6	-3.69	138.1555	3139	572.6	-140.90	4.5820
EL-3	422	126.0	-3.26	138.6180	3156	568.6	-137.80	7.6497
EL-3	437	129.2	-3.14	138.7569	3173	564.5	-137.30	8.1165
EL-3	452	132.6	-2.68	139.2443	3190	560.5	-135.30	10.0842
EL-3	467	136.1	-2.56	139.3976	3207	556.4	-133.40	11.9511
EL-3	482	139.5	-2.25	139.7351	3224	552.4	-133.50	11.8188
EL-3	497	143.0	-2.12	139.8884	3242	548.7	-126.90	18.3889
EL-3	512	146.4	-1.32	140.7228	3259	544.7	-126.90	18.3566
EL-3	527	149.9	-1.57	140.4991	3276	540.7	-121.40	23.8243
EL-3	542	153.3	-0.87	141.2218	3292	536.7	-117.30	27.8920
EL-3	557	156.8	-0.88	141.2417	3307	533.1	-114.10	31.0629
EL-3	573	160.6	-0.26	141.8914	3323	529.1	-110.20	34.9306
EL-3	588	164.0	-0.05	142.1319	3339	524.8	-106.50	38.5958
EL-3	603	167.3	0.20	142.4111	3354	520.9	-103.20	41.8643
EL-3	618	171.0	0.46	142.6957	3370	517.0	-99.87	45.1628
EL-3	633	174.5	0.37	142.6389	3386	513.3	-96.35	48.6529
EL-3	648	178.0	1.14	143.4351	3401	509.4	-93.69	51.2814
EL-3	663	181.6	1.50	143.8272	3417	505.8	-92.12	52.8223
EL-3	678	185.4	1.27	143.6229	3433	502.3	-90.13	54.7841
EL-3	694	189.2	2.25	144.6356	3449	498.4	-88.74	56.1426
EL-3	709	193.0	2.44	144.8503	3464	494.5	-87.16	57.6910
EL-3	724	196.8	2.60	145.0450	3480	490.9	-86.10	58.7220
EL-3	739	200.3	3.32	145.7923	3496	487.1	-85.11	59.6813
EL-3	754	203.9	3.17	145.6764	3512	483.5	-85.13	59.6322
EL-3	770	208.0	4.16	146.6935	3527	479.7	-84.64	60.0915
EL-3	785	211.9	4.36	146.9280	3543	475.9	-84.00	60.7008
EL-3	800	215.4	4.76	147.3562	3559	471.7	-83.65	61.0168
EL-3	815	219.3	5.25	147.8778	3574	468.2	-83.23	61.4086
EL-3	831	223.2	6.08	148.7403	3590	464.4	-82.85	61.7579
EL-3	846	226.8	6.12	148.8044	3606	460.6	-82.80	61.7772
EL-3	861	230.4	6.63	149.3484	3622	456.8	-82.31	62.2365
EL-3	876	234.0	6.96	149.7085	3637	453.0	-82.72	61.7958
EL-3	892	237.6	7.58	150.3516	3653	448.9	-82.35	62.1327
EL-3	907	241.2	7.99	150.7977	3669	445.2	-82.30	62.1528
EL-3	923	245.2	8.39	151.2250	3684	441.4	-82.59	61.8321
EL-3	938	248.5	8.78	151.6397	3700	438.0	-82.44	61.9546
EL-3	953	252.2	9.00	151.8925	3715	434.2	-82.68	61.6839

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-3	968	256.1	9.47	152.3971	3731	430.2	-82.34	61.9916
EL-3	984	260.1	10.35	153.3074	3747	426.4	-83.15	61.1509
EL-3	999	263.5	10.51	153.4948	3762	422.7	-82.80	61.4710
EL-3	1014	267.1	10.62	153.6339	3778	418.7	-82.88	61.3587
EL-3	1030	270.5	11.10	154.1414	3794	415.0	-82.98	61.2288
EL-3	1045	274.5	11.06	154.1337	3809	411.0	-83.26	60.9165
EL-3	1060	278.5	11.05	154.1560	3825	407.3	-83.21	60.9366
EL-3	1076	282.2	11.12	154.2559	3840	403.3	-83.63	60.4843
EL-3	1091	286.5	10.91	154.0807	3856	399.4	-84.12	59.9628
EL-3	1107	290.2	11.17	154.3705	3872	395.4	-83.71	60.3404
EL-3	1122	294.3	10.52	153.7537	3887	391.8	-84.17	59.8514
EL-3	1138	298.0	9.99	153.2546	3903	388.1	-84.07	59.9215
EL-3	1153	301.7	10.32	153.6135	3919	384.5	-84.38	59.5824
EL-3	1168	305.5	10.16	153.4842	3934	380.6	-84.16	59.7709
EL-3	1184	309.3	9.48	152.8339	3950	376.9	-85.05	58.8510
EL-3	1199	313.0	9.71	153.0907	3965	373.3	-84.91	58.9619
EL-3	1214	317.1	9.50	152.9189	3981	369.7	-84.86	58.9828
EL-3	1230	320.9	8.69	152.1366	3996	365.8	-85.34	58.4713
EL-3	1245	324.7	8.52	151.9943	4012	361.9	-84.95	58.8298
EL-3	1261	328.5	8.20	151.7100	4028	358.1	-85.66	58.0891
EL-3	1276	332.6	7.96	151.5051	4043	354.5	-85.35	58.3700
EL-3	1292	336.4	7.75	151.3268	4059	350.6	-85.83	57.8585
EL-3	1307	340.3	7.12	150.7243	4074	347.1	-86.11	57.5502
EL-3	1322	344.1	7.38	151.0200	4090	343.5	-85.76	57.8712
EL-3	1338	348.0	5.96	149.6225	4105	340.0	-86.17	57.4329
EL-3	1353	351.8	6.00	149.7002	4121	336.4	-85.85	57.7238
EL-3	1369	355.7	5.25	148.9837	4136	332.9	-86.58	56.9655
EL-3	1384	359.6	5.59	149.3462	4152	329.4	-86.42	57.0972
EL-3	1400	363.4	4.82	148.6119	4167	325.9	-86.65	56.8390
EL-3	1415	367.3	4.36	148.1814	4183	322.7	-86.59	56.8731
EL-3	1431	371.2	3.95	147.7999	4198	318.9	-86.78	56.6524
EL-3	1446	375.4	3.76	147.6469	4214	315.4	-86.76	56.6441
EL-3	1462	379.4	3.41	147.3322	4229	311.9	-87.16	56.2159
EL-3	1477	383.0	2.98	146.9263	4245	308.1	-87.13	56.2152
EL-3	1492	386.6	1.64	145.6173	4260	304.3	-87.41	55.9045
EL-3	1508	390.5	1.29	145.2959	4276	300.6	-87.30	55.9846
EL-3	1523	394.5	0.58	144.6256	4291	296.6	-87.87	55.3823
EL-3	1539	398.5	0.31	144.3869	4307	292.8	-87.14	56.0816
EL-3	1554	402.4	0.28	144.3828	4322	289.1	-87.38	55.8117
EL-3	1570	406.4	-1.16	142.9803	4337	285.4	-87.70	55.4618
EL-3	1585	410.4	-1.54	142.6366	4353	281.9	-87.81	55.3235
EL-3	1601	414.4	-2.31	141.8969	4368	278.5	-87.91	55.1960
EL-3	1616	418.7	-3.81	140.4337	4384	275.1	-87.53	55.5486
EL-3	1632	422.7	-4.19	140.0810	4399	271.7	-87.25	55.8011
EL-3	1647	426.8	-5.94	138.3691	4415	268.0	-87.90	55.1212
EL-3	1663	430.8	-6.78	137.5614	4430	264.6	-88.29	54.7037
EL-3	1678	434.5	-8.39	135.9803	4446	260.9	-88.18	54.7838
EL-3	1694	438.6	-9.89	134.5064	4461	257.5	-88.09	54.8464
EL-3	1710	442.3	-11.24	133.1893	4476	253.9	-87.99	54.9173

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-3	1725	446.1	-12.40	132.0600	4492	249.9	-88.30	54.5750
EL-3	1741	450.2	-14.15	130.3432	4507	246.3	-87.84	55.0059
EL-3	1756	454.0	-15.51	129.0139	4523	242.9	-87.92	54.8984
EL-3	1772	457.8	-17.48	127.0746	4538	239.3	-88.07	54.7193
EL-3	1788	461.9	-19.25	125.3377	4554	235.9	-87.89	54.8719
EL-3	1803	465.7	-21.03	123.5884	4569	232.3	-88.08	54.6528
EL-3	1819	470.1	-23.73	120.9239	4584	228.7	-88.42	54.2837
EL-3	1834	473.9	-25.78	118.9046	4600	225.4	-88.25	54.4271
EL-3	1850	477.8	-27.23	117.4861	4615	221.8	-88.39	54.2580
EL-3	1865	481.6	-29.83	114.9168	4631	218.2	-88.26	54.3589
EL-3	1881	485.5	-32.42	112.3583	4646	214.6	-88.57	54.0198
EL-3	1896	489.3	-35.04	109.7690	4661	211.3	-88.20	54.3631
EL-3	1912	493.2	-37.77	107.0705	4677	207.7	-88.31	54.2241
EL-3	1927	497.4	-41.46	103.4145	4692	204.4	-88.30	54.2074
EL-3	1943	501.3	-44.51	100.3960	4707	201.2	-88.36	54.1215
EL-3	1959	505.2	-47.44	97.4975	4723	197.9	-88.66	53.7949
EL-3	1974	508.8	-51.05	93.9166	4738	194.9	-88.30	54.1307
EL-3	1990	512.7	-55.19	89.8081	4753	191.3	-88.16	54.2416
EL-3	2005	517.0	-59.57	85.4628	4769	188.1	-88.31	54.0657
EL-3	2021	521.2	-63.74	81.3267	4784	184.5	-88.53	53.8166
EL-3	2037	525.2	-68.66	76.4391	4799	181.3	-88.88	53.4408
EL-3	2052	529.1	-73.03	72.1006	4815	178.3	-88.83	53.4665
EL-3	2068	532.8	-77.72	67.4405	4830	175.1	-88.85	53.4207
EL-3	2083	536.4	-81.36	63.8295	4845	171.8	-88.50	53.7440
EL-3	2099	539.7	-85.59	59.6262	4860	168.6	-88.15	54.0682
EL-3	2114	543.4	-90.70	54.5461	4876	165.4	-88.60	53.5923
EL-3	2130	547.4	-95.53	49.7484	4891	161.9	-88.32	53.8441
EL-3	2146	551.1	-100.10	45.2083	4906	158.7	-88.38	53.7582
EL-3	2161	555.1	-105.60	39.7406	4922	155.5	-88.74	53.3723
EL-3	2177	559.1	-109.70	35.6729	4937	152.0	-88.58	53.5041
EL-3	2193	562.8	-113.80	31.6028	4952	148.8	-88.44	53.6182
EL-3	2210	566.9	-120.40	25.0359	4968	145.3	-88.62	53.4099
EL-3	2227	571.3	-121.40	24.0715	4983	142.2	-88.39	53.6149
EL-3	2244	575.4	-130.00	15.5046	4998	139.2	-88.34	53.6407
EL-3	2262	579.5	-130.90	14.6377	5013	136.1	-88.00	53.9556
EL-3	2279	583.6	-136.50	9.0709	5029	132.9	-88.35	53.5798
EL-3	2296	587.7	-143.70	1.9040	5044	129.5	-88.29	53.6123
EL-3	2313	592.1	-143.50	2.1395	5060	126.3	-88.10	53.7764
EL-3	2330	596.6	-147.10	-1.4241	5075	123.1	-87.70	54.1506
EL-3	2348	601.1	-145.30	0.4122	5090	120.0	-87.99	53.8356
EL-3	2365	605.9	-147.20	-1.4490	5105	116.8	-87.97	53.8297
EL-3	2382	610.5	-146.50	-0.7118	5121	114.0	-88.11	53.6671
EL-3	2399	614.6	-146.90	-1.0787	5136	110.8	-87.74	54.0112
EL-3	2416	618.8	-150.30	-4.4448	5151	108.0	-87.78	53.9486
EL-3	2433	623.0	-151.70	-5.8108	5166	104.6	-87.21	54.4911
EL-3	2451	627.3	-148.50	-2.5761	5181	101.4	-87.60	54.0753
EL-3	2468	631.5	-150.50	-4.5422	5197	98.3	-87.30	54.3502
EL-3	2485	635.7	-150.40	-4.4082	5212	95.2	-87.35	54.2752
EL-3	2502	640.3	-149.20	-3.1711	5227	92.4	-87.45	54.1526

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-3	2519	644.6	-151.50	-5.4363	5242	89.5	-87.36	54.2192
EL-3	2537	648.9	-151.00	-4.9016	5257	86.4	-86.83	54.7241
EL-3	2554	653.2	-152.00	-5.8669	5273	83.6	-87.22	54.3115
EL-3	2571	657.1	-148.90	-2.7354	5288	80.8	-87.37	54.1389
EL-3	2588	661.5	-148.00	-1.7998	5303	77.9	-87.09	54.3954
EL-3	2605	665.1	-149.30	-3.0707	5318	75.4	-87.23	54.2352
EL-3	2623	668.0	-148.80	-2.5473	5333	72.5	-87.22	54.2218
EL-3	2640	669.4	-150.00	-3.7360	5348	70.2	-86.99	54.4332
EL-3	2657	670.1	-151.50	-5.2303	5364	67.7	-86.95	54.4530
EL-3					5379	65.4	-87.09	54.2945
EL-3					5394	62.8	-87.02	54.3434
EL-3					5409	60.5	-87.11	54.2349
EL-6	0	21.9	-35.66	105.3730	2756	670.9	-150.30	-4.0239
EL-6	16	22.4	-35.77	105.2671	2773	669.8	-153.80	-7.5328
EL-6	32	25.1	-35.74	105.3189	2790	668.0	-147.70	-1.4473
EL-6	47	28.9	-35.05	106.0396	2807	666.1	-149.50	-3.2627
EL-6	63	33.2	-34.86	106.2643	2824	663.6	-152.10	-5.8828
EL-6	78	37.7	-34.61	106.5507	2842	660.4	-151.40	-5.2087
EL-6	94	42.3	-33.93	107.2678	2859	657.1	-150.10	-3.9354
EL-6	109	46.6	-33.30	107.9326	2876	653.5	-152.00	-5.8644
EL-6	124	51.1	-33.01	108.2589	2893	650.3	-149.10	-2.9903
EL-6	140	55.4	-32.88	108.4236	2911	647.1	-152.50	-6.4161
EL-6	155	59.2	-32.47	108.8643	2928	643.5	-151.20	-5.1452
EL-6	171	63.3	-31.80	109.5675	2945	640.3	-151.20	-5.1711
EL-6	186	67.4	-31.72	109.6806	2962	636.4	-147.50	-1.5026
EL-6	202	71.3	-31.38	110.0521	2979	632.6	-150.30	-4.3333
EL-6	217	75.1	-31.30	110.1628	2997	628.7	-151.60	-5.6648
EL-6	233	78.7	-30.91	110.5819	3014	625.9	-151.00	-5.0874
EL-6	248	82.3	-30.93	110.5910	3031	623.7	-149.60	-3.7052
EL-6	263	85.6	-30.70	110.8476	3048	620.9	-149.10	-3.2278
EL-6	279	89.3	-30.45	111.1275	3065	617.8	-149.40	-3.5528
EL-6	294	92.6	-30.09	111.5142	3082	614.6	-149.20	-3.3787
EL-6	310	96.0	-29.87	111.7617	3099	611.2	-147.20	-1.4062
EL-6	325	99.4	-29.55	112.1091	3116	607.0	-149.20	-3.4401
EL-6	341	102.7	-29.00	112.6858	3134	602.8	-145.20	0.5260
EL-6	356	106.1	-28.88	112.8333	3151	599.0	-148.00	-2.3047
EL-6	371	109.5	-28.74	113.0007	3168	595.2	-147.30	-1.6354
EL-6	387	112.7	-28.22	113.5466	3185	591.1	-144.80	0.8315
EL-6	402	116.3	-27.96	113.8357	3202	587.3	-145.40	0.2008
EL-6	418	119.7	-27.99	113.8331	3220	583.2	-147.10	-1.5324
EL-6	433	123.4	-27.64	114.2130	3237	579.8	-143.80	1.7402
EL-6	448	126.8	-27.35	114.5305	3254	575.7	-143.50	2.0070
EL-6	464	130.5	-26.68	115.2304	3271	571.6	-142.00	3.4739
EL-6	479	133.9	-26.60	115.3378	3288	567.6	-141.30	4.1416
EL-6	495	137.7	-26.31	115.6585	3305	563.5	-141.50	3.9085
EL-6	510	141.1	-25.92	116.0760	3323	559.5	-140.20	5.1762
EL-6	526	144.8	-25.63	116.3959	3340	555.4	-137.00	8.3430
EL-6	541	148.3	-25.55	116.5042	3357	551.4	-133.20	12.1107

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-6	556	152.0	-25.15	116.9341	3374	547.1	-131.50	13.7760
EL-6	572	155.7	-24.83	117.2840	3392	543.1	-126.60	18.6437
EL-6	587	159.5	-24.02	118.1246	3409	539.1	-120.90	24.3114
EL-6	602	163.0	-23.81	118.3629	3424	535.4	-117.10	28.0815
EL-6	618	166.7	-24.21	117.9928	3440	531.8	-113.60	31.5524
EL-6	633	170.2	-23.04	119.1911	3455	528.1	-109.40	35.7225
EL-6	649	173.7	-23.26	118.9994	3471	524.2	-106.10	38.9910
EL-6	664	177.2	-22.86	119.4276	3486	520.2	-102.20	42.8587
EL-6	679	181.0	-22.49	119.8283	3502	516.0	-97.67	47.3547
EL-6	695	184.8	-21.77	120.5790	3518	512.0	-93.57	51.4224
EL-6	710	188.6	-21.82	120.5597	3533	508.1	-90.67	54.2909
EL-6	725	192.2	-21.14	121.2688	3549	504.5	-88.07	56.8618
EL-6	740	195.7	-21.15	121.2871	3564	501.3	-87.13	57.7760
EL-6	756	199.5	-20.86	121.6078	3580	497.4	-85.61	59.2645
EL-6	771	203.6	-20.62	121.8809	3595	493.9	-84.06	60.7862
EL-6	786	207.2	-20.14	122.3900	3611	490.3	-82.95	61.8671
EL-6	801	211.0	-19.40	123.1607	3626	486.1	-81.92	62.8632
EL-6	817	214.6	-19.03	123.5598	3642	482.6	-81.32	63.4349
EL-6	832	218.5	-18.95	123.6713	3657	479.1	-80.60	64.1266
EL-6	848	222.3	-18.39	124.2620	3673	475.2	-79.79	64.9051
EL-6	863	226.2	-18.25	124.4335	3689	471.4	-79.59	65.0744
EL-6	878	229.8	-17.40	125.3126	3704	467.9	-78.70	65.9361
EL-6	894	233.4	-17.33	125.4117	3720	464.1	-78.98	65.6254
EL-6	909	237.1	-17.20	125.5716	3736	460.3	-78.66	65.9148
EL-6	924	240.7	-16.85	125.9506	3751	456.5	-78.77	65.7741
EL-6	939	244.3	-16.01	126.8197	3767	452.7	-78.11	66.4034
EL-6	955	248.0	-15.99	126.8696	3783	448.9	-78.53	65.9527
EL-6	970	251.9	-15.90	126.9911	3798	445.5	-77.84	66.6152
EL-6	985	255.6	-15.36	127.5610	3814	441.7	-78.78	65.6445
EL-6	1000	259.2	-15.14	127.8101	3829	438.3	-78.88	65.5170
EL-6	1016	262.9	-14.75	128.2300	3845	434.5	-78.28	66.0863
EL-6	1031	266.3	-14.88	128.1275	3860	431.1	-78.74	65.5989
EL-6	1046	270.3	-14.93	128.1098	3876	427.4	-78.27	66.0390
EL-6	1061	273.9	-14.31	128.7589	3891	423.4	-78.93	65.3466
EL-6	1076	277.6	-13.87	129.2288	3907	419.6	-79.14	65.1059
EL-6	1092	281.4	-14.05	129.0795	3923	415.9	-79.27	64.9461
EL-6	1106	285.4	-13.62	129.5418	3938	412.2	-79.37	64.8162
EL-6	1122	289.4	-14.24	128.9541	3954	408.3	-79.68	64.4747
EL-6	1137	293.1	-13.84	129.3840	3969	404.3	-80.01	64.1123
EL-6	1152	296.6	-13.91	129.3423	3985	400.3	-80.05	64.0400
EL-6	1167	300.3	-13.82	129.4622	4000	396.3	-80.31	63.7477
EL-6	1182	304.1	-13.55	129.7628	4016	392.4	-80.46	63.5662
EL-6	1197	307.8	-13.68	129.6628	4031	388.4	-80.43	63.5639
EL-6	1212	311.6	-14.08	129.2934	4047	384.5	-80.73	63.2324
EL-6	1227	315.4	-14.28	129.1241	4063	380.9	-80.82	63.1133
EL-6	1242	319.2	-14.39	129.0448	4078	376.9	-81.30	62.6010
EL-6	1257	322.9	-13.86	129.6047	4094	373.0	-81.20	62.6695
EL-6	1272	326.2	-14.24	129.2514	4109	369.1	-81.51	62.3280
EL-6	1287	330.0	-13.97	129.5521	4125	365.2	-81.67	62.1365

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-6	1302	333.8	-13.76	129.7928	4140	361.6	-81.70	62.0774
EL-6	1317	337.6	-14.43	129.1535	4156	357.5	-82.07	61.6743
EL-6	1332	341.5	-14.22	129.3950	4171	353.6	-82.11	61.6027
EL-6	1348	345.3	-14.29	129.3557	4186	349.7	-82.26	61.4212
EL-6	1363	349.1	-14.70	128.9764	4202	346.2	-82.45	61.2030
EL-6	1378	353.0	-14.70	129.0079	4217	342.6	-82.62	61.0039
EL-6	1393	356.6	-14.85	128.8870	4233	338.8	-83.23	60.3632
EL-6	1408	360.4	-14.61	129.1577	4248	335.6	-83.27	60.2973
EL-6	1424	364.3	-15.23	128.5692	4264	332.0	-83.13	60.4082
EL-6	1439	368.2	-15.29	128.5407	4279	328.2	-83.17	60.3375
EL-6	1454	372.1	-15.55	128.3122	4295	324.7	-83.53	59.9493
EL-6	1469	375.7	-16.42	127.4713	4310	320.9	-83.33	60.1186
EL-6	1484	379.7	-16.54	127.3836	4325	317.1	-83.51	59.9079
EL-6	1500	383.6	-17.13	126.8251	4341	313.3	-83.92	59.4672
EL-6	1515	387.2	-17.40	126.5842	4356	309.6	-84.14	59.2173
EL-6	1530	390.9	-17.71	126.3041	4372	306.1	-84.26	59.0690
EL-6	1546	394.8	-18.54	125.5056	4387	302.6	-84.03	59.2707
EL-6	1561	398.8	-19.04	125.0379	4403	298.9	-84.15	59.1208
EL-6	1576	402.7	-19.92	124.1894	4418	295.7	-84.33	58.9150
EL-6	1591	406.4	-20.38	123.7593	4434	292.0	-84.70	58.5151
EL-6	1607	410.1	-21.07	123.0992	4449	288.2	-84.70	58.4844
EL-6	1622	413.8	-22.33	121.8691	4465	284.5	-84.80	58.3545
EL-6	1638	417.5	-23.19	121.0390	4480	281.1	-84.54	58.5870
EL-6	1653	420.9	-24.21	120.0464	4496	277.4	-84.86	58.2371
EL-6	1668	424.6	-25.34	118.9463	4511	273.7	-84.74	58.3273
EL-6	1683	428.3	-26.54	117.7762	4526	270.3	-84.83	58.2098
EL-6	1699	432.4	-28.26	116.0893	4542	266.9	-85.00	58.0123
EL-6	1714	435.8	-29.62	114.7568	4557	263.5	-84.97	58.0149
EL-6	1730	439.5	-31.03	113.3767	4573	260.1	-85.17	57.7874
EL-6	1745	443.3	-32.56	111.8774	4588	256.4	-85.32	57.6075
EL-6	1761	447.4	-34.02	110.4505	4603	253.0	-85.50	57.4000
EL-6	1776	450.8	-35.98	108.5180	4619	249.6	-85.22	57.6526
EL-6	1791	454.3	-37.78	106.7463	4634	246.3	-85.52	57.3259
EL-6	1807	457.8	-39.56	104.9946	4650	242.6	-85.53	57.2860
EL-6	1822	461.5	-41.29	103.2944	4665	239.0	-85.80	56.9869
EL-6	1838	465.4	-43.72	100.8960	4680	235.7	-85.60	57.1603
EL-6	1853	468.8	-45.16	99.4834	4696	232.3	-85.73	57.0028
EL-6	1869	472.7	-48.11	96.5649	4711	229.0	-85.63	57.0761
EL-6	1884	476.8	-50.24	94.4680	4726	225.4	-85.77	56.9071
EL-6	1900	480.3	-52.74	91.9963	4742	222.1	-85.74	56.9104
EL-6	1915	484.5	-55.54	89.2303	4757	218.7	-86.09	56.5329
EL-6	1931	488.4	-58.32	86.4818	4772	215.4	-86.01	56.5863
EL-6	1946	492.6	-61.37	83.4657	4788	211.9	-85.71	56.8580
EL-6	1961	496.1	-63.94	80.9240	4803	208.3	-86.15	56.3889
EL-6	1977	499.4	-66.68	78.2106	4819	205.0	-86.15	56.3622
EL-6	1992	503.2	-69.65	75.2713	4834	201.4	-86.36	56.1232
EL-6	2008	506.5	-72.75	72.1980	4849	198.2	-86.37	56.0873
EL-6	2023	509.8	-75.36	69.6146	4865	194.9	-86.35	56.0807
EL-6	2039	512.7	-78.16	66.8381	4880	191.6	-86.23	56.1740

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-6	2054	515.6	-81.07	63.9515	4896	188.3	-86.26	56.1173
EL-6	2070	518.6	-84.52	60.5257	4911	185.4	-86.47	55.8839
EL-6	2085	521.2	-87.23	57.8367	4926	181.8	-86.21	56.1148
EL-6	2100	524.8	-90.92	54.1758	4942	178.6	-86.23	56.0690
EL-6	2116	528.1	-94.38	50.7425	4957	175.3	-86.32	55.9523
EL-6	2131	531.4	-97.29	47.8591	4972	172.4	-86.38	55.8689
EL-6	2147	534.7	-100.30	44.8758	4988	169.1	-86.30	55.9222
EL-6	2162	538.4	-103.60	41.6057	5003	165.9	-85.96	56.2364
EL-6	2178	542.1	-107.30	37.9356	5019	163.0	-86.57	55.6029
EL-6	2193	545.7	-110.40	34.8647	5034	159.8	-86.54	55.6071
EL-6	2209	549.4	-114.00	31.2946	5049	156.5	-86.54	55.5804
EL-6	2226	553.4	-118.60	26.7269	5064	153.6	-86.27	55.8270
EL-6	2243	557.4	-122.10	23.2592	5080	150.4	-86.72	55.3511
EL-6	2260	561.1	-126.40	18.9891	5095	147.2	-86.39	55.6553
EL-6	2277	565.2	-127.40	18.0222	5110	144.3	-86.34	55.6819
EL-6	2294	568.9	-131.90	13.5521	5126	141.1	-86.52	55.4760
EL-6	2311	573.0	-133.40	12.0852	5141	137.9	-86.33	55.6402
EL-6	2328	576.7	-134.20	11.3151	5156	135.0	-86.72	55.2267
EL-6	2345	581.2	-138.60	6.9515	5171	132.1	-86.44	55.4833
EL-6	2363	585.6	-141.20	4.3870	5187	129.2	-86.19	55.7099
EL-6	2380	590.4	-140.10	5.5258	5202	126.0	-86.41	55.4640
EL-6	2397	594.9	-141.60	4.0621	5217	123.1	-86.41	55.4406
EL-6	2414	599.4	-142.90	2.7985	5232	120.0	-86.11	55.7156
EL-6	2431	603.5	-146.40	-0.6684	5248	117.1	-86.47	55.3321
EL-6	2448	607.3	-143.90	1.8623	5263	114.0	-86.44	55.3371
EL-6	2465	611.5	-149.50	-3.7038	5278	110.8	-86.15	55.6012
EL-6	2482	616.0	-146.80	-0.9674	5293	108.0	-85.80	55.9286
EL-6	2499	620.2	-149.50	-3.6335	5308	105.1	-86.27	55.4352
EL-6	2516	624.5	-151.00	-5.0987	5323	102.2	-86.01	55.6718
EL-6	2533	629.0	-145.10	0.8376	5339	99.1	-85.97	55.6867
EL-6	2550	633.6	-153.20	-7.2252	5354	96.3	-85.74	55.8941
EL-6	2567	637.9	-148.80	-2.7905	5369	93.1	-85.49	56.1182
EL-6	2585	641.1	-150.80	-4.7646	5384	90.3	-85.71	55.8756
EL-6	2602	645.0	-149.40	-3.3331	5399	87.7	-85.57	55.9946
EL-6	2619	648.9	-149.90	-3.8016	5414	84.9	-85.53	56.0120
EL-6	2636	652.8	-151.30	-5.1701	5430	82.0	-85.58	55.9386
EL-6	2653	656.8	-153.80	-7.6378	5445	79.5	-85.75	55.7484
EL-6	2670	660.7	-155.40	-9.2063	5460	76.6	-85.77	55.7049
EL-6	2687	664.7	-147.60	-1.3740	5475	74.1	-85.18	56.2747
EL-6	2704	668.3	-152.90	-6.6449	5490	71.5	-85.55	55.8837
EL-6	2721	670.5	-151.60	-5.3271	5505	69.2	-85.50	55.9152
EL-6	2739	671.2	-150.20	-3.9214	5520	66.6	-85.73	55.6641
EL-6					5535	64.3	-85.64	55.7356
EL-6					5550	62.0	-85.70	55.6570
EL-6					5565	59.8	-85.42	55.9192
EL-6					5581	57.5	-85.49	55.8306
EL-6					5596	54.7	-85.36	55.9380
EL-6					5611	51.6	-86.80	54.4730
EL-6					5626	48.8	-85.48	55.7703

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-6					5641	46.3	-85.48	55.7501
EL-6					5656	44.0	-85.51	55.7016
EL-6					5671	42.0	-85.61	55.5854
EL-6					5686	40.0	-85.62	55.5592
EL-8	0	22.1	-70.41	70.6246	2961	712.1	-149.40	-2.7910
EL-8	16	22.9	-70.31	70.7311	2978	710.9	-153.30	-6.7007
EL-8	32	26.2	-70.33	70.7378	2996	708.7	-151.30	-4.7185
EL-8	47	30.2	-69.82	71.2801	3013	706.5	-148.80	-2.2363
EL-8	62	34.4	-69.96	71.1740	3030	703.9	-150.40	-3.8573
EL-8	78	38.7	-70.02	71.1488	3047	700.9	-150.00	-3.4815
EL-8	93	43.3	-70.06	71.1459	3065	697.6	-151.00	-4.5082
EL-8	109	47.3	-70.12	71.1182	3082	694.6	-150.10	-3.6324
EL-8	124	51.6	-70.33	70.9430	3099	690.9	-149.50	-3.0623
EL-8	140	55.7	-70.40	70.9061	3116	687.3	-148.90	-2.4914
EL-8	155	59.5	-70.45	70.8868	3133	683.6	-150.40	-4.0213
EL-8	171	63.1	-70.80	70.5659	3151	679.9	-150.90	-4.5511
EL-8	186	66.9	-70.86	70.5366	3168	676.3	-150.10	-3.7802
EL-8	201	70.5	-71.10	70.3257	3185	673.0	-147.50	-1.2069
EL-8	217	74.1	-71.04	70.4147	3202	669.0	-150.80	-4.5392
EL-8	232	77.4	-71.29	70.1914	3219	664.7	-148.30	-2.0740
EL-8	248	80.8	-71.58	69.9289	3236	660.7	-150.90	-4.7063
EL-8	263	84.1	-71.81	69.7255	3253	657.1	-151.00	-4.8354
EL-8	279	87.2	-71.78	69.7806	3271	652.8	-149.40	-3.2701
EL-8	294	90.6	-71.77	69.8180	3288	648.9	-148.90	-2.8016
EL-8	310	93.7	-72.18	69.4331	3305	645.3	-152.20	-6.1307
EL-8	325	97.0	-72.07	69.5697	3322	641.8	-150.20	-4.1590
EL-8	341	100.1	-72.01	69.6548	3339	638.2	-147.70	-1.6880
EL-8	356	103.3	-72.18	69.5106	3357	634.7	-148.90	-2.9163
EL-8	371	106.4	-72.14	69.5757	3374	630.4	-148.00	-2.0511
EL-8	387	109.5	-72.00	69.7407	3391	626.6	-149.20	-3.2818
EL-8	402	112.9	-72.52	69.2482	3408	622.7	-149.70	-3.8133
EL-8	418	116.6	-72.45	69.3481	3425	618.8	-148.00	-2.1448
EL-8	433	120.0	-72.55	69.2755	3442	615.0	-148.20	-2.3755
EL-8	448	123.4	-72.57	69.2830	3459	610.8	-147.90	-2.1094
EL-8	464	126.8	-72.51	69.3705	3477	606.3	-151.10	-5.3458
EL-8	479	130.0	-72.70	69.2063	3494	602.1	-149.30	-3.5797
EL-8	495	133.4	-72.71	69.2238	3511	598.3	-149.60	-3.9104
EL-8	510	136.9	-72.87	69.0921	3528	593.8	-146.80	-1.1467
EL-8	525	140.3	-72.78	69.2096	3545	589.7	-148.80	-3.1799
EL-8	541	143.5	-72.62	69.3954	3562	585.6	-147.30	-1.7130
EL-8	556	147.2	-72.70	69.3453	3579	581.8	-148.60	-3.0437
EL-8	571	150.7	-72.58	69.4936	3597	577.7	-151.00	-5.4768
EL-8	587	154.1	-72.91	69.1910	3614	573.7	-149.70	-4.2091
EL-8	602	157.3	-72.72	69.4069	3631	569.9	-148.20	-2.7398
EL-8	618	160.8	-72.79	69.3652	3648	566.2	-149.20	-3.7697
EL-8	633	164.3	-72.87	69.3134	3665	562.2	-148.30	-2.9020
EL-8	648	167.8	-72.42	69.7917	3682	558.1	-146.70	-1.3351
EL-8	664	171.0	-72.52	69.7176	3699	553.7	-147.40	-2.0707

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-8	679	174.5	-72.43	69.8358	3716	549.7	-144.70	0.5970
EL-8	694	178.3	-72.52	69.7765	3733	545.7	-144.90	0.3647
EL-8	710	181.8	-72.45	69.8748	3751	541.7	-143.40	1.8324
EL-8	725	185.6	-72.27	70.0855	3768	538.1	-142.70	2.5033
EL-8	740	188.9	-72.42	69.9622	3785	533.8	-142.60	2.5685
EL-8	756	192.4	-72.27	70.1405	3802	529.8	-140.80	4.3362
EL-8	771	196.2	-72.06	70.3812	3819	525.8	-139.40	5.7039
EL-8	787	200.1	-72.17	70.3027	3836	521.9	-137.00	8.0724
EL-8	802	203.6	-71.89	70.6109	3853	517.9	-135.90	9.1401
EL-8	817	207.2	-71.82	70.7100	3870	514.0	-136.60	8.4086
EL-8	833	210.8	-71.54	71.0191	3887	510.4	-136.00	8.9795
EL-8	848	214.3	-71.27	71.3174	3904	506.2	-134.30	10.6456
EL-8	864	218.2	-71.27	71.3489	3921	502.3	-131.60	13.3140
EL-8	879	221.5	-71.30	71.3455	3939	498.1	-132.00	12.8801
EL-8	894	224.8	-71.01	71.6622	3956	493.9	-131.50	13.3462
EL-8	910	228.2	-70.96	71.7397	3973	489.7	-129.50	15.3123
EL-8	925	231.8	-70.70	72.0288	3990	485.5	-128.10	16.6783
EL-8	941	235.1	-70.45	72.3054	4007	481.6	-126.40	18.3468
EL-8	956	238.7	-70.15	72.6345	4024	477.5	-128.90	15.8137
EL-8	971	242.4	-70.37	72.4444	4041	473.3	-127.30	17.3798
EL-8	987	246.0	-70.07	72.7735	4058	469.5	-125.30	19.3491
EL-8	1002	249.6	-69.60	73.2726	4075	465.7	-126.90	17.7184
EL-8	1018	253.3	-69.48	73.4225	4092	461.9	-125.50	19.0877
EL-8	1033	257.0	-69.40	73.5323	4110	457.8	-124.80	19.7546
EL-8	1048	260.9	-69.18	73.7838	4127	453.6	-125.80	18.7206
EL-8	1063	264.3	-68.87	74.1213	4144	449.9	-125.10	19.3907
EL-8	1079	268.0	-69.15	73.8712	4161	445.8	-126.70	17.7576
EL-8	1094	271.7	-68.75	74.3011	4178	442.0	-126.80	17.6269
EL-8	1109	275.4	-68.44	74.6410	4195	438.3	-126.60	17.7970
EL-8	1124	279.1	-67.79	75.3209	4213	434.2	-125.20	19.1639
EL-8	1140	282.8	-68.03	75.1108	4230	430.5	-125.20	19.1340
EL-8	1155	286.5	-68.00	75.1707	4247	426.4	-121.40	22.9009
EL-8	1170	290.2	-67.82	75.3806	4264	422.7	-124.10	20.1710
EL-8	1185	293.7	-67.33	75.8988	4281	418.7	-123.60	20.6387
EL-8	1201	297.4	-67.34	75.9187	4298	414.7	-123.00	21.2064
EL-8	1216	300.9	-67.31	75.9770	4315	410.7	-125.30	18.8740
EL-8	1231	304.3	-66.91	76.4045	4332	407.0	-126.50	17.6442
EL-8	1246	307.8	-67.10	76.2427	4349	403.0	-123.40	20.7118
EL-8	1261	311.3	-67.10	76.2710	4366	399.1	-126.40	17.6803
EL-8	1276	315.1	-66.69	76.7117	4383	394.8	-124.80	19.2456
EL-8	1291	318.6	-66.77	76.6600	4400	390.9	-122.60	21.4141
EL-8	1307	322.4	-66.52	76.9407	4417	386.9	-126.80	17.1818
EL-8	1322	325.9	-66.09	77.3990	4434	382.7	-125.40	18.5478
EL-8	1337	329.4	-65.85	77.6672	4451	378.7	-124.30	19.6155
EL-8	1352	332.9	-65.83	77.7155	4468	374.8	-125.60	18.2840
EL-8	1367	336.4	-65.55	78.0238	4485	370.9	-128.30	15.5525
EL-8	1382	340.0	-65.31	78.2929	4502	367.0	-122.70	21.1210
EL-8	1397	343.8	-65.47	78.1636	4519	363.1	-125.80	17.9895
EL-8	1412	347.4	-65.50	78.1627	4536	359.3	-123.70	20.0588

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-8	1427	350.9	-65.44	78.2509	4553	355.1	-125.80	17.9249
EL-8	1442	354.5	-65.00	78.7200	4570	350.9	-124.40	19.2909
EL-8	1457	358.4	-65.01	78.7415	4587	346.8	-124.20	19.4578
EL-8	1472	361.9	-65.22	78.5598	4604	342.9	-124.30	19.3263
EL-8	1487	365.5	-64.72	79.0889	4621	339.1	-124.10	19.4956
EL-8	1502	369.4	-64.75	79.0904	4638	335.6	-123.70	19.8673
EL-8	1517	373.3	-64.73	79.1419	4655	331.7	-123.50	20.0358
EL-8	1532	376.9	-64.44	79.4610	4672	328.2	-124.40	19.1075
EL-8	1547	380.3	-65.23	78.6985	4689	324.4	-128.40	15.0768
EL-8	1562	384.2	-65.02	78.9400	4706	320.6	-125.70	17.7461
EL-8	1577	387.8	-65.17	78.8190	4723	316.8	-125.60	17.8155
EL-8	1592	391.5	-65.29	78.7289	4740	312.7	-125.30	18.0823
EL-8	1607	394.8	-65.61	78.4356	4757	309.3	-126.00	17.3549
EL-8	1622	398.5	-65.43	78.6455	4774	305.2	-123.60	19.7217
EL-8	1637	402.1	-65.64	78.4646	4791	301.5	-124.80	18.4918
EL-8	1652	405.5	-65.62	78.5120	4808	297.7	-126.00	17.2611
EL-8	1668	408.9	-66.24	77.9195	4825	294.0	-127.30	15.9312
EL-8	1683	412.6	-66.79	77.3994	4842	289.9	-127.30	15.8981
EL-8	1698	416.9	-66.89	77.3341	4859	285.9	-124.70	18.4658
EL-8	1713	420.3	-67.90	76.3516	4875	282.2	-125.40	17.7359
EL-8	1728	424.0	-67.88	76.4015	4892	278.2	-124.80	18.3036
EL-8	1743	427.4	-68.40	75.9090	4909	274.2	-125.80	17.2713
EL-8	1759	431.1	-69.10	75.2389	4926	270.5	-123.80	19.2414
EL-8	1774	434.5	-69.97	74.3963	4943	266.9	-125.30	17.7123
EL-8	1789	438.3	-70.76	73.6370	4960	262.9	-126.50	16.4800
EL-8	1804	442.0	-71.69	72.7369	4977	259.2	-126.00	16.9501
EL-8	1819	446.4	-73.05	71.4125	4994	255.3	-125.90	17.0186
EL-8	1835	450.8	-74.67	69.8280	5011	251.6	-124.60	18.2887
EL-8	1850	454.6	-75.70	68.8287	5028	248.0	-124.30	18.5596
EL-8	1865	459.0	-77.43	67.1342	5045	244.3	-125.60	17.2297
EL-8	1881	463.1	-79.26	65.3374	5062	240.4	-126.20	16.5982
EL-8	1896	467.3	-80.73	63.9013	5079	236.5	-126.40	16.3667
EL-8	1911	471.1	-82.70	61.9620	5095	232.6	-125.00	17.7352
EL-8	1927	474.9	-84.45	60.2427	5112	229.0	-127.00	15.7061
EL-8	1942	479.1	-86.33	58.3966	5129	225.1	-127.50	15.1746
EL-8	1958	482.6	-88.49	56.2649	5146	221.2	-123.90	18.7431
EL-8	1973	486.1	-90.29	54.4932	5163	217.6	-126.30	16.3140
EL-8	1988	490.3	-92.52	52.2971	5180	214.1	-125.30	17.2858
EL-8	2004	494.2	-94.54	50.3086	5197	210.5	-124.80	17.7567
EL-8	2019	498.1	-96.74	48.1401	5214	206.9	-125.10	17.4276
EL-8	2034	501.6	-99.11	45.7984	5231	203.1	-124.80	17.6969
EL-8	2050	504.9	-101.10	43.8351	5248	199.5	-125.30	17.1678
EL-8	2065	508.8	-103.90	41.0666	5264	196.0	-123.50	18.9395
EL-8	2080	512.4	-106.20	38.7957	5281	192.4	-126.10	16.3105
EL-8	2096	516.0	-108.50	36.5247	5298	188.9	-124.50	17.8822
EL-8	2111	519.9	-111.40	33.6562	5315	185.4	-123.90	18.4539
EL-8	2126	523.8	-114.50	30.5878	5332	181.8	-127.00	15.3248
EL-8	2144	527.8	-122.30	22.8201	5349	178.3	-125.10	17.1965
EL-8	2161	532.1	-124.50	20.6548	5365	175.1	-125.70	16.5707

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-8	2178	536.4	-125.90	19.2895	5382	171.6	-125.20	17.0424
EL-8	2195	540.4	-130.60	14.6218	5399	168.1	-124.70	17.5141
EL-8	2211	544.7	-130.80	14.4566	5416	164.6	-124.00	18.1859
EL-8	2228	549.1	-131.90	13.3922	5433	161.1	-124.70	17.4576
EL-8	2245	552.7	-137.60	7.7212	5449	157.9	-124.00	18.1317
EL-8	2262	556.8	-138.60	6.7543	5466	154.1	-124.30	17.8010
EL-8	2279	560.5	-138.20	7.1842	5483	150.7	-124.50	17.5736
EL-8	2296	564.5	-141.50	3.9166	5500	147.2	-124.10	17.9453
EL-8	2313	568.6	-144.10	1.3497	5516	143.8	-125.50	16.5178
EL-8	2330	572.6	-143.70	1.7820	5533	140.3	-125.70	16.2896
EL-8	2347	576.7	-146.00	-0.4849	5550	137.1	-125.00	16.9637
EL-8	2364	581.5	-147.20	-1.6461	5567	133.9	-124.70	17.2378
EL-8	2381	586.3	-147.00	-1.4073	5583	130.8	-125.90	16.0128
EL-8	2398	590.4	-148.70	-3.0742	5600	127.6	-125.10	16.7870
EL-8	2415	594.9	-149.90	-4.2379	5617	124.5	-124.50	17.3619
EL-8	2432	599.4	-148.60	-2.9015	5633	121.0	-123.90	17.9336
EL-8	2449	603.2	-148.00	-2.2708	5650	117.6	-124.70	17.1062
EL-8	2466	607.0	-147.90	-2.1401	5667	114.5	-124.30	17.4811
EL-8	2483	611.2	-149.60	-3.8062	5683	111.1	-124.40	17.3537
EL-8	2500	616.0	-147.30	-1.4674	5700	107.7	-123.50	18.2262
EL-8	2517	620.2	-148.30	-2.4335	5716	104.6	-123.30	18.4011
EL-8	2534	624.1	-147.20	-1.3020	5733	101.2	-123.50	18.1737
EL-8	2551	628.0	-148.70	-2.7704	5750	98.1	-123.90	17.7486
EL-8	2568	631.5	-149.80	-3.8422	5766	94.7	-122.40	19.2212
EL-8	2585	635.0	-151.70	-5.7139	5783	91.6	-122.30	19.2961
EL-8	2602	638.6	-148.10	-2.0848	5799	88.5	-122.50	19.0711
EL-8	2619	642.1	-151.10	-5.0565	5816	85.6	-124.20	17.3476
EL-8	2636	646.0	-150.60	-4.5250	5833	82.6	-122.40	19.1234
EL-8	2653	650.0	-148.80	-2.6927	5850	79.5	-124.40	17.0984
EL-8	2670	654.3	-149.90	-3.7580	5866	76.4	-123.70	17.7733
EL-8	2687	658.6	-151.10	-4.9232	5883	73.8	-123.80	17.6523
EL-8	2704	662.5	-151.50	-5.2917	5900	71.0	-123.80	17.6297
EL-8	2721	666.5	-151.40	-5.1594	5916	68.2	-124.50	16.9071
EL-8	2738	670.5	-151.20	-4.9271	5933	65.6	-123.20	18.1861
EL-8	2755	673.8	-150.10	-3.8004	5950	63.1	-124.90	16.4659
EL-8	2773	677.4	-149.50	-3.1714	5966	60.5	-125.40	15.9449
EL-8	2790	681.0	-151.30	-4.9423	5983	58.0	-125.20	16.1247
EL-8	2807	685.1	-148.90	-2.5091	6000	55.2	-123.50	17.8021
EL-8	2824	689.5	-152.50	-6.0736	6017	52.1	-123.40	17.8770
EL-8	2841	693.9	-150.70	-4.2381	6034	49.1	-123.10	18.1528
EL-8	2858	697.9	-152.30	-5.8057	6050	46.3	-123.40	17.8302
EL-8	2876	702.0	-149.80	-3.2726	6067	43.8	-123.10	18.1100
EL-8	2893	705.7	-152.00	-5.4427	6084	41.2	-123.10	18.0889
EL-8	2910	708.7	-152.20	-5.6185	6101	39.2	-122.30	18.8728
EL-8	2927	711.3	-151.00	-4.3975				
EL-8	2944	712.1	-151.80	-5.1910				
EL-10	0	22.1	-70.41	70.6246	2961	712.1	-149.40	-2.7910
EL-10	16	22.9	-70.31	70.7311	2978	710.9	-153.30	-6.7007

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Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-10	32	26.2	-70.33	70.7378	2996	708.7	-151.30	-4.7185
EL-10	47	30.2	-69.82	71.2801	3013	706.5	-148.80	-2.2363
EL-10	62	34.4	-69.96	71.1740	3030	703.9	-150.40	-3.8573
EL-10	78	38.7	-70.02	71.1488	3047	700.9	-150.00	-3.4815
EL-10	93	43.3	-70.06	71.1459	3065	697.6	-151.00	-4.5082
EL-10	109	47.3	-70.12	71.1182	3082	694.6	-150.10	-3.6324
EL-10	124	51.6	-70.33	70.9430	3099	690.9	-149.50	-3.0623
EL-10	140	55.7	-70.40	70.9061	3116	687.3	-148.90	-2.4914
EL-10	155	59.5	-70.45	70.8868	3133	683.6	-150.40	-4.0213
EL-10	171	63.1	-70.80	70.5659	3151	679.9	-150.90	-4.5511
EL-10	186	66.9	-70.86	70.5366	3168	676.3	-150.10	-3.7802
EL-10	201	70.5	-71.10	70.3257	3185	673.0	-147.50	-1.2069
EL-10	217	74.1	-71.04	70.4147	3202	669.0	-150.80	-4.5392
EL-10	232	77.4	-71.29	70.1914	3219	664.7	-148.30	-2.0740
EL-10	248	80.8	-71.58	69.9289	3236	660.7	-150.90	-4.7063
EL-10	263	84.1	-71.81	69.7255	3253	657.1	-151.00	-4.8354
EL-10	279	87.2	-71.78	69.7806	3271	652.8	-149.40	-3.2701
EL-10	294	90.6	-71.77	69.8180	3288	648.9	-148.90	-2.8016
EL-10	310	93.7	-72.18	69.4331	3305	645.3	-152.20	-6.1307
EL-10	325	97.0	-72.07	69.5697	3322	641.8	-150.20	-4.1590
EL-10	341	100.1	-72.01	69.6548	3339	638.2	-147.70	-1.6880
EL-10	356	103.3	-72.18	69.5106	3357	634.7	-148.90	-2.9163
EL-10	371	106.4	-72.14	69.5757	3374	630.4	-148.00	-2.0511
EL-10	387	109.5	-72.00	69.7407	3391	626.6	-149.20	-3.2818
EL-10	402	112.9	-72.52	69.2482	3408	622.7	-149.70	-3.8133
EL-10	418	116.6	-72.45	69.3481	3425	618.8	-148.00	-2.1448
EL-10	433	120.0	-72.55	69.2755	3442	615.0	-148.20	-2.3755
EL-10	448	123.4	-72.57	69.2830	3459	610.8	-147.90	-2.1094
EL-10	464	126.8	-72.51	69.3705	3477	606.3	-151.10	-5.3458
EL-10	479	130.0	-72.70	69.2063	3494	602.1	-149.30	-3.5797
EL-10	495	133.4	-72.71	69.2238	3511	598.3	-149.60	-3.9104
EL-10	510	136.9	-72.87	69.0921	3528	593.8	-146.80	-1.1467
EL-10	525	140.3	-72.78	69.2096	3545	589.7	-148.80	-3.1799
EL-10	541	143.5	-72.62	69.3954	3562	585.6	-147.30	-1.7130
EL-10	556	147.2	-72.70	69.3453	3579	581.8	-148.60	-3.0437
EL-10	571	150.7	-72.58	69.4936	3597	577.7	-151.00	-5.4768
EL-10	587	154.1	-72.91	69.1910	3614	573.7	-149.70	-4.2091
EL-10	602	157.3	-72.72	69.4069	3631	569.9	-148.20	-2.7398
EL-10	618	160.8	-72.79	69.3652	3648	566.2	-149.20	-3.7697
EL-10	633	164.3	-72.87	69.3134	3665	562.2	-148.30	-2.9020
EL-10	648	167.8	-72.42	69.7917	3682	558.1	-146.70	-1.3351
EL-10	664	171.0	-72.52	69.7176	3699	553.7	-147.40	-2.0707
EL-10	679	174.5	-72.43	69.8358	3716	549.7	-144.70	0.5970
EL-10	694	178.3	-72.52	69.7765	3733	545.7	-144.90	0.3647
EL-10	710	181.8	-72.45	69.8748	3751	541.7	-143.40	1.8324
EL-10	725	185.6	-72.27	70.0855	3768	538.1	-142.70	2.5033
EL-10	740	188.9	-72.42	69.9622	3785	533.8	-142.60	2.5685
EL-10	756	192.4	-72.27	70.1405	3802	529.8	-140.80	4.3362
EL-10	771	196.2	-72.06	70.3812	3819	525.8	-139.40	5.7039

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-10	787	200.1	-72.17	70.3027	3836	521.9	-137.00	8.0724
EL-10	802	203.6	-71.89	70.6109	3853	517.9	-135.90	9.1401
EL-10	817	207.2	-71.82	70.7100	3870	514.0	-136.60	8.4086
EL-10	833	210.8	-71.54	71.0191	3887	510.4	-136.00	8.9795
EL-10	848	214.3	-71.27	71.3174	3904	506.2	-134.30	10.6456
EL-10	864	218.2	-71.27	71.3489	3921	502.3	-131.60	13.3140
EL-10	879	221.5	-71.30	71.3455	3939	498.1	-132.00	12.8801
EL-10	894	224.8	-71.01	71.6622	3956	493.9	-131.50	13.3462
EL-10	910	228.2	-70.96	71.7397	3973	489.7	-129.50	15.3123
EL-10	925	231.8	-70.70	72.0288	3990	485.5	-128.10	16.6783
EL-10	941	235.1	-70.45	72.3054	4007	481.6	-126.40	18.3468
EL-10	956	238.7	-70.15	72.6345	4024	477.5	-128.90	15.8137
EL-10	971	242.4	-70.37	72.4444	4041	473.3	-127.30	17.3798
EL-10	987	246.0	-70.07	72.7735	4058	469.5	-125.30	19.3491
EL-10	1002	249.6	-69.60	73.2726	4075	465.7	-126.90	17.7184
EL-10	1018	253.3	-69.48	73.4225	4092	461.9	-125.50	19.0877
EL-10	1033	257.0	-69.40	73.5323	4110	457.8	-124.80	19.7546
EL-10	1048	260.9	-69.18	73.7838	4127	453.6	-125.80	18.7206
EL-10	1063	264.3	-68.87	74.1213	4144	449.9	-125.10	19.3907
EL-10	1079	268.0	-69.15	73.8712	4161	445.8	-126.70	17.7576
EL-10	1094	271.7	-68.75	74.3011	4178	442.0	-126.80	17.6269
EL-10	1109	275.4	-68.44	74.6410	4195	438.3	-126.60	17.7970
EL-10	1124	279.1	-67.79	75.3209	4213	434.2	-125.20	19.1639
EL-10	1140	282.8	-68.03	75.1108	4230	430.5	-125.20	19.1340
EL-10	1155	286.5	-68.00	75.1707	4247	426.4	-121.40	22.9009
EL-10	1170	290.2	-67.82	75.3806	4264	422.7	-124.10	20.1710
EL-10	1185	293.7	-67.33	75.8988	4281	418.7	-123.60	20.6387
EL-10	1201	297.4	-67.34	75.9187	4298	414.7	-123.00	21.2064
EL-10	1216	300.9	-67.31	75.9770	4315	410.7	-125.30	18.8740
EL-10	1231	304.3	-66.91	76.4045	4332	407.0	-126.50	17.6442
EL-10	1246	307.8	-67.10	76.2427	4349	403.0	-123.40	20.7118
EL-10	1261	311.3	-67.10	76.2710	4366	399.1	-126.40	17.6803
EL-10	1276	315.1	-66.69	76.7117	4383	394.8	-124.80	19.2456
EL-10	1291	318.6	-66.77	76.6600	4400	390.9	-122.60	21.4141
EL-10	1307	322.4	-66.52	76.9407	4417	386.9	-126.80	17.1818
EL-10	1322	325.9	-66.09	77.3990	4434	382.7	-125.40	18.5478
EL-10	1337	329.4	-65.85	77.6672	4451	378.7	-124.30	19.6155
EL-10	1352	332.9	-65.83	77.7155	4468	374.8	-125.60	18.2840
EL-10	1367	336.4	-65.55	78.0238	4485	370.9	-128.30	15.5525
EL-10	1382	340.0	-65.31	78.2929	4502	367.0	-122.70	21.1210
EL-10	1397	343.8	-65.47	78.1636	4519	363.1	-125.80	17.9895
EL-10	1412	347.4	-65.50	78.1627	4536	359.3	-123.70	20.0588
EL-10	1427	350.9	-65.44	78.2509	4553	355.1	-125.80	17.9249
EL-10	1442	354.5	-65.00	78.7200	4570	350.9	-124.40	19.2909
EL-10	1457	358.4	-65.01	78.7415	4587	346.8	-124.20	19.4578
EL-10	1472	361.9	-65.22	78.5598	4604	342.9	-124.30	19.3263
EL-10	1487	365.5	-64.72	79.0889	4621	339.1	-124.10	19.4956
EL-10	1502	369.4	-64.75	79.0904	4638	335.6	-123.70	19.8673
EL-10	1517	373.3	-64.73	79.1419	4655	331.7	-123.50	20.0358

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-10	1532	376.9	-64.44	79.4610	4672	328.2	-124.40	19.1075
EL-10	1547	380.3	-65.23	78.6985	4689	324.4	-128.40	15.0768
EL-10	1562	384.2	-65.02	78.9400	4706	320.6	-125.70	17.7461
EL-10	1577	387.8	-65.17	78.8190	4723	316.8	-125.60	17.8155
EL-10	1592	391.5	-65.29	78.7289	4740	312.7	-125.30	18.0823
EL-10	1607	394.8	-65.61	78.4356	4757	309.3	-126.00	17.3549
EL-10	1622	398.5	-65.43	78.6455	4774	305.2	-123.60	19.7217
EL-10	1637	402.1	-65.64	78.4646	4791	301.5	-124.80	18.4918
EL-10	1652	405.5	-65.62	78.5120	4808	297.7	-126.00	17.2611
EL-10	1668	408.9	-66.24	77.9195	4825	294.0	-127.30	15.9312
EL-10	1683	412.6	-66.79	77.3994	4842	289.9	-127.30	15.8981
EL-10	1698	416.9	-66.89	77.3341	4859	285.9	-124.70	18.4658
EL-10	1713	420.3	-67.90	76.3516	4875	282.2	-125.40	17.7359
EL-10	1728	424.0	-67.88	76.4015	4892	278.2	-124.80	18.3036
EL-10	1743	427.4	-68.40	75.9090	4909	274.2	-125.80	17.2713
EL-10	1759	431.1	-69.10	75.2389	4926	270.5	-123.80	19.2414
EL-10	1774	434.5	-69.97	74.3963	4943	266.9	-125.30	17.7123
EL-10	1789	438.3	-70.76	73.6370	4960	262.9	-126.50	16.4800
EL-10	1804	442.0	-71.69	72.7369	4977	259.2	-126.00	16.9501
EL-10	1819	446.4	-73.05	71.4125	4994	255.3	-125.90	17.0186
EL-10	1835	450.8	-74.67	69.8280	5011	251.6	-124.60	18.2887
EL-10	1850	454.6	-75.70	68.8287	5028	248.0	-124.30	18.5596
EL-10	1865	459.0	-77.43	67.1342	5045	244.3	-125.60	17.2297
EL-10	1881	463.1	-79.26	65.3374	5062	240.4	-126.20	16.5982
EL-10	1896	467.3	-80.73	63.9013	5079	236.5	-126.40	16.3667
EL-10	1911	471.1	-82.70	61.9620	5095	232.6	-125.00	17.7352
EL-10	1927	474.9	-84.45	60.2427	5112	229.0	-127.00	15.7061
EL-10	1942	479.1	-86.33	58.3966	5129	225.1	-127.50	15.1746
EL-10	1958	482.6	-88.49	56.2649	5146	221.2	-123.90	18.7431
EL-10	1973	486.1	-90.29	54.4932	5163	217.6	-126.30	16.3140
EL-10	1988	490.3	-92.52	52.2971	5180	214.1	-125.30	17.2858
EL-10	2004	494.2	-94.54	50.3086	5197	210.5	-124.80	17.7567
EL-10	2019	498.1	-96.74	48.1401	5214	206.9	-125.10	17.4276
EL-10	2034	501.6	-99.11	45.7984	5231	203.1	-124.80	17.6969
EL-10	2050	504.9	-101.10	43.8351	5248	199.5	-125.30	17.1678
EL-10	2065	508.8	-103.90	41.0666	5264	196.0	-123.50	18.9395
EL-10	2080	512.4	-106.20	38.7957	5281	192.4	-126.10	16.3105
EL-10	2096	516.0	-108.50	36.5247	5298	188.9	-124.50	17.8822
EL-10	2111	519.9	-111.40	33.6562	5315	185.4	-123.90	18.4539
EL-10	2126	523.8	-114.50	30.5878	5332	181.8	-127.00	15.3248
EL-10	2144	527.8	-122.30	22.8201	5349	178.3	-125.10	17.1965
EL-10	2161	532.1	-124.50	20.6548	5365	175.1	-125.70	16.5707
EL-10	2178	536.4	-125.90	19.2895	5382	171.6	-125.20	17.0424
EL-10	2195	540.4	-130.60	14.6218	5399	168.1	-124.70	17.5141
EL-10	2211	544.7	-130.80	14.4566	5416	164.6	-124.00	18.1859
EL-10	2228	549.1	-131.90	13.3922	5433	161.1	-124.70	17.4576
EL-10	2245	552.7	-137.60	7.7212	5449	157.9	-124.00	18.1317
EL-10	2262	556.8	-138.60	6.7543	5466	154.1	-124.30	17.8010
EL-10	2279	560.5	-138.20	7.1842	5483	150.7	-124.50	17.5736

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

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EL-10	2296	564.5	-141.50	3.9166	5500	147.2	-124.10	17.9453
EL-10	2313	568.6	-144.10	1.3497	5516	143.8	-125.50	16.5178
EL-10	2330	572.6	-143.70	1.7820	5533	140.3	-125.70	16.2896
EL-10	2347	576.7	-146.00	-0.4849	5550	137.1	-125.00	16.9637
EL-10	2364	581.5	-147.20	-1.6461	5567	133.9	-124.70	17.2378
EL-10	2381	586.3	-147.00	-1.4073	5583	130.8	-125.90	16.0128
EL-10	2398	590.4	-148.70	-3.0742	5600	127.6	-125.10	16.7870
EL-10	2415	594.9	-149.90	-4.2379	5617	124.5	-124.50	17.3619
EL-10	2432	599.4	-148.60	-2.9015	5633	121.0	-123.90	17.9336
EL-10	2449	603.2	-148.00	-2.2708	5650	117.6	-124.70	17.1062
EL-10	2466	607.0	-147.90	-2.1401	5667	114.5	-124.30	17.4811
EL-10	2483	611.2	-149.60	-3.8062	5683	111.1	-124.40	17.3537
EL-10	2500	616.0	-147.30	-1.4674	5700	107.7	-123.50	18.2262
EL-10	2517	620.2	-148.30	-2.4335	5716	104.6	-123.30	18.4011
EL-10	2534	624.1	-147.20	-1.3020	5733	101.2	-123.50	18.1737
EL-10	2551	628.0	-148.70	-2.7704	5750	98.1	-123.90	17.7486
EL-10	2568	631.5	-149.80	-3.8422	5766	94.7	-122.40	19.2212
EL-10	2585	635.0	-151.70	-5.7139	5783	91.6	-122.30	19.2961
EL-10	2602	638.6	-148.10	-2.0848	5799	88.5	-122.50	19.0711
EL-10	2619	642.1	-151.10	-5.0565	5816	85.6	-124.20	17.3476
EL-10	2636	646.0	-150.60	-4.5250	5833	82.6	-122.40	19.1234
EL-10	2653	650.0	-148.80	-2.6927	5850	79.5	-124.40	17.0984
EL-10	2670	654.3	-149.90	-3.7580	5866	76.4	-123.70	17.7733
EL-10	2687	658.6	-151.10	-4.9232	5883	73.8	-123.80	17.6523
EL-10	2704	662.5	-151.50	-5.2917	5900	71.0	-123.80	17.6297
EL-10	2721	666.5	-151.40	-5.1594	5916	68.2	-124.50	16.9071
EL-10	2738	670.5	-151.20	-4.9271	5933	65.6	-123.20	18.1861
EL-10	2755	673.8	-150.10	-3.8004	5950	63.1	-124.90	16.4659
EL-10	2773	677.4	-149.50	-3.1714	5966	60.5	-125.40	15.9449
EL-10	2790	681.0	-151.30	-4.9423	5983	58.0	-125.20	16.1247
EL-10	2807	685.1	-148.90	-2.5091	6000	55.2	-123.50	17.8021
EL-10	2824	689.5	-152.50	-6.0736	6017	52.1	-123.40	17.8770
EL-10	2841	693.9	-150.70	-4.2381	6034	49.1	-123.10	18.1528
EL-10	2858	697.9	-152.30	-5.8057	6050	46.3	-123.40	17.8302
EL-10	2876	702.0	-149.80	-3.2726	6067	43.8	-123.10	18.1100
EL-10	2893	705.7	-152.00	-5.4427	6084	41.2	-123.10	18.0889
EL-10	2910	708.7	-152.20	-5.6185	6101	39.2	-122.30	18.8728
EL-10	2927	711.3	-151.00	-4.3975				
EL-10	2944	712.1	-151.80	-5.1910				
EL-12	0	23.9	-80.44	60.6092	2563	631.1	-151.80	-5.8454
EL-12	16	24.6	-80.54	60.5148	2580	629.4	-150.90	-4.9591
EL-12	32	27.4	-80.23	60.8475	2597	627.6	-149.70	-3.7737
EL-12	47	31.2	-80.41	60.6982	2614	625.2	-148.90	-2.9931
EL-12	63	35.2	-80.28	60.8605	2631	622.3	-148.90	-3.0165
EL-12	78	39.5	-80.24	60.9352	2649	619.2	-146.90	-1.0415
EL-12	94	44.0	-80.10	61.1116	2665	616.0	-148.60	-2.7674
EL-12	109	48.3	-80.15	61.0963	2683	612.9	-148.00	-2.1924
EL-12	124	52.6	-80.49	60.7910	2700	609.8	-148.30	-2.5175

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Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-12	140	56.7	-80.01	61.3042	2717	606.6	-149.60	-3.8433
EL-12	155	60.5	-79.95	61.3949	2734	602.8	-148.20	-2.4740
EL-12	171	64.3	-79.98	61.3956	2751	599.0	-148.30	-2.6047
EL-12	186	68.2	-80.11	61.2971	2768	595.2	-148.00	-2.3354
EL-12	202	72.0	-79.92	61.5178	2785	591.1	-146.80	-1.1685
EL-12	217	75.6	-79.88	61.5869	2802	587.3	-148.80	-3.1992
EL-12	232	79.2	-79.95	61.5459	2819	583.9	-148.50	-2.9267
EL-12	248	82.6	-79.92	61.6034	2836	580.1	-148.70	-3.1574
EL-12	263	85.9	-80.32	61.2301	2853	576.4	-146.40	-0.8873
EL-12	279	89.3	-80.13	61.4475	2870	572.6	-144.00	1.4820
EL-12	294	92.6	-79.83	61.7742	2887	568.6	-144.90	0.5497
EL-12	309	95.7	-80.02	61.6092	2904	564.5	-144.00	1.4166
EL-12	325	99.1	-80.07	61.5867	2921	560.5	-142.20	3.1842
EL-12	340	102.5	-80.11	61.5742	2938	556.8	-140.10	5.2543
EL-12	355	105.6	-80.24	61.4692	2955	552.7	-138.00	7.3212
EL-12	371	109.0	-80.49	61.2467	2972	548.7	-136.00	9.2889
EL-12	386	115.5	-80.19	61.5992	2989	545.1	-136.00	9.2598
EL-12	402	119.2	-80.35	61.4691	3006	541.4	-133.00	12.2299
EL-12	417	122.6	-80.35	61.4965	3023	537.4	-129.30	15.8976
EL-12	432	126.0	-80.50	61.3740	3040	533.4	-124.80	20.3653
EL-12	448	129.5	-80.15	61.7523	3057	529.5	-123.00	22.1338
EL-12	463	133.2	-80.31	61.6222	3074	524.8	-119.80	25.2958
EL-12	479	136.6	-80.48	61.4797	3090	520.9	-116.00	29.0643
EL-12	494	140.0	-80.22	61.7671	3105	517.0	-112.60	32.4328
EL-12	509	143.5	-80.34	61.6754	3121	513.0	-110.40	34.6005
EL-12	525	146.9	-80.45	61.5929	3136	509.1	-107.60	37.3690
EL-12	540	150.4	-80.15	61.9211	3152	505.5	-105.40	39.5399
EL-12	555	153.9	-79.94	62.1594	3167	501.6	-103.60	41.3084
EL-12	571	157.1	-80.22	61.9053	3182	497.7	-101.80	43.0769
EL-12	586	160.6	-80.25	61.9036	3198	494.2	-100.50	44.3486
EL-12	602	164.0	-80.14	62.0410	3213	490.3	-99.76	45.0571
EL-12	617	167.5	-79.98	62.2293	3229	486.8	-98.31	46.4788
EL-12	632	171.0	-80.19	62.0476	3244	483.2	-97.73	47.0298
EL-12	648	174.5	-80.08	62.1858	3259	479.7	-96.85	47.8815
EL-12	663	178.3	-79.90	62.3965	3275	476.2	-96.22	48.4832
EL-12	678	181.8	-79.68	62.6448	3290	472.4	-95.70	48.9725
EL-12	694	185.4	-79.98	62.3739	3305	468.8	-94.97	49.6734
EL-12	709	189.2	-79.74	62.6446	3321	465.0	-94.40	50.2127
EL-12	724	192.7	-79.58	62.8329	3336	461.5	-93.98	50.6044
EL-12	740	196.2	-79.47	62.9712	3352	458.1	-93.49	51.0670
EL-12	755	200.1	-79.08	63.3927	3367	454.6	-93.12	51.4087
EL-12	770	203.9	-79.38	63.1234	3383	450.8	-93.25	51.2480
EL-12	786	207.5	-79.19	63.3424	3398	447.4	-92.71	51.7605
EL-12	801	211.3	-79.13	63.4331	3413	443.9	-92.42	52.0223
EL-12	816	214.6	-78.82	63.7698	3429	440.5	-92.13	52.2848
EL-12	832	218.5	-78.96	63.6613	3444	437.0	-91.94	52.4465
EL-12	847	222.1	-78.82	63.8304	3460	433.6	-91.70	52.6590
EL-12	863	225.7	-78.71	63.9695	3475	429.6	-91.57	52.7567
EL-12	878	229.0	-78.57	64.1361	3491	425.8	-91.46	52.8360

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples FROM the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-12	893	232.6	-78.41	64.3252	3506	422.4	-91.26	53.0086
EL-12	909	236.2	-78.45	64.3143	3522	419.0	-91.49	52.7511
EL-12	924	239.6	-78.34	64.4518	3537	415.6	-91.37	52.8436
EL-12	940	243.2	-78.14	64.6809	3553	411.9	-91.23	52.9537
EL-12	955	246.8	-78.05	64.7999	3568	408.3	-91.47	52.6847
EL-12	971	250.8	-77.84	65.0423	3583	404.9	-91.52	52.6072
EL-12	986	254.4	-77.64	65.2713	3599	400.9	-91.59	52.5049
EL-12	1001	257.8	-77.68	65.2588	3614	397.2	-91.55	52.5150
EL-12	1017	261.5	-77.38	65.5887	3630	393.6	-91.76	52.2759
EL-12	1032	265.4	-77.52	65.4802	3645	389.9	-92.05	51.9560
EL-12	1048	269.1	-77.55	65.4801	3660	386.3	-92.23	51.7469
EL-12	1063	272.8	-77.53	65.5300	3676	382.4	-92.24	51.7054
EL-12	1078	276.8	-77.04	66.0523	3691	378.7	-92.53	51.3855
EL-12	1094	280.8	-77.19	65.9346	3707	375.4	-92.42	51.4689
EL-12	1109	284.5	-77.42	65.7345	3722	371.8	-92.74	51.1198
EL-12	1124	288.2	-77.51	65.6744	3737	368.2	-92.75	51.0807
EL-12	1140	292.2	-77.84	65.3767	3753	364.3	-92.89	50.9092
EL-12	1155	296.0	-77.58	65.6674	3768	360.7	-93.05	50.7201
EL-12	1171	299.7	-77.88	65.3973	3783	357.2	-93.30	50.4418
EL-12	1186	303.5	-77.32	65.9880	3799	353.6	-93.44	50.2727
EL-12	1201	307.2	-76.87	66.4679	3814	349.7	-93.56	50.1212
EL-12	1217	310.7	-77.49	65.8762	3829	346.2	-93.65	50.0030
EL-12	1232	314.8	-77.36	66.0393	3845	342.6	-93.59	50.0339
EL-12	1247	318.6	-77.85	65.5800	3860	339.1	-93.80	49.7956
EL-12	1262	322.1	-77.48	65.9783	3875	335.8	-94.05	49.5189
EL-12	1278	326.2	-77.93	65.5614	3891	332.0	-94.00	49.5382
EL-12	1293	330.0	-77.34	66.1821	3906	328.2	-94.48	49.0275
EL-12	1308	333.8	-77.74	65.8128	3921	324.7	-94.21	49.2693
EL-12	1324	337.6	-77.92	65.6635	3936	321.2	-94.50	48.9510
EL-12	1339	341.2	-76.94	66.6726	3952	317.4	-94.57	48.8503
EL-12	1354	345.0	-77.43	66.2133	3967	313.6	-94.80	48.5896
EL-12	1369	348.8	-77.66	66.0140	3982	310.4	-94.63	48.7337
EL-12	1384	352.7	-77.54	66.1655	3998	306.9	-94.75	48.5855
EL-12	1400	356.3	-77.38	66.3546	4013	303.2	-95.14	48.1656
EL-12	1415	360.1	-77.85	65.9153	4028	299.4	-95.03	48.2449
EL-12	1430	364.0	-77.28	66.5168	4044	296.0	-95.24	48.0074
EL-12	1445	367.6	-77.25	66.5759	4059	292.2	-95.22	47.9967
EL-12	1460	371.5	-77.49	66.3674	4074	288.5	-95.31	47.8768
EL-12	1475	375.1	-77.80	66.0864	4089	284.8	-95.30	47.8569
EL-12	1491	378.7	-77.70	66.2155	4105	281.4	-95.47	47.6595
EL-12	1506	382.7	-77.91	66.0378	4120	277.9	-95.64	47.4612
EL-12	1521	386.3	-77.76	66.2169	4135	274.5	-95.54	47.5337
EL-12	1536	390.2	-78.23	65.7784	4150	271.1	-95.61	47.4363
EL-12	1551	394.2	-78.18	65.8607	4166	267.7	-95.59	47.4288
EL-12	1566	398.2	-78.11	65.9631	4181	264.0	-95.69	47.2989
EL-12	1581	401.8	-79.09	65.0122	4196	260.6	-95.89	47.0714
EL-12	1596	405.5	-78.91	65.2220	4211	257.2	-95.56	47.3740
EL-12	1611	409.5	-79.47	64.6944	4227	253.6	-95.76	47.1449
EL-12	1626	413.2	-80.23	63.9642	4242	249.9	-95.80	47.0750

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-12	1642	416.9	-80.73	63.4941	4257	246.0	-95.89	46.9535
EL-12	1657	420.9	-81.51	62.7464	4272	242.4	-95.89	46.9244
EL-12	1672	424.9	-82.88	61.4088	4287	238.7	-95.90	46.8845
EL-12	1687	428.6	-83.16	61.1587	4303	235.1	-96.24	46.5154
EL-12	1702	432.4	-84.51	59.8394	4318	231.5	-95.99	46.7363
EL-12	1717	435.8	-85.16	59.2168	4333	227.9	-96.03	46.6673
EL-12	1732	439.8	-86.11	58.2991	4348	224.3	-96.18	46.4882
EL-12	1747	443.6	-87.26	57.1798	4363	220.7	-96.30	46.3391
EL-12	1762	447.4	-88.36	56.1105	4378	217.4	-96.34	46.2724
EL-12	1777	450.8	-89.14	55.3580	4393	213.8	-96.28	46.3033
EL-12	1792	454.3	-90.57	53.9563	4409	210.5	-96.24	46.3167
EL-12	1808	458.1	-91.76	52.7970	4424	207.2	-96.42	46.1100
EL-12	1823	461.5	-92.96	51.6244	4439	203.9	-96.65	45.8534
EL-12	1838	465.4	-94.25	50.3660	4454	200.3	-96.47	46.0043
EL-12	1853	469.2	-95.90	48.7467	4469	197.1	-96.57	45.8784
EL-12	1868	473.3	-97.66	47.0198	4484	193.8	-96.96	45.4618
EL-12	1883	477.1	-99.18	45.5305	4499	190.8	-96.43	45.9675
EL-12	1899	481.0	-100.90	43.8420	4514	187.5	-96.56	45.8109
EL-12	1914	485.2	-102.90	41.8759	4529	184.3	-96.52	45.8250
EL-12	1929	489.3	-105.10	39.7090	4545	181.3	-96.61	45.7108
EL-12	1944	492.9	-106.80	38.0381	4560	178.0	-96.67	45.6241
EL-12	1959	496.4	-108.80	36.0664	4575	174.8	-96.49	45.7783
EL-12	1975	500.3	-110.50	34.3979	4590	171.6	-96.56	45.6824
EL-12	1990	504.5	-112.60	32.3318	4605	168.6	-96.69	45.5282
EL-12	2005	508.5	-115.10	29.8641	4620	165.4	-96.78	45.4123
EL-12	2020	513.0	-118.70	26.3005	4635	162.2	-96.70	45.4665
EL-12	2038	517.6	-120.50	24.5377	4650	158.9	-96.64	45.4998
EL-12	2054	521.9	-120.00	25.0724	4665	155.5	-96.79	45.3223
EL-12	2071	525.8	-128.00	17.1039	4680	152.3	-96.81	45.2765
EL-12	2088	530.1	-130.20	14.9386	4696	149.1	-96.87	45.1906
EL-12	2105	534.1	-131.00	14.1710	4711	145.9	-96.78	45.2548
EL-12	2173	549.7	-136.20	9.0970	4726	142.7	-96.73	45.2789
EL-12	2190	554.4	-141.80	3.5350	4741	139.5	-96.80	45.1831
EL-12	2207	558.8	-144.00	1.3705	4756	136.6	-96.66	45.2997
EL-12	2224	562.8	-145.10	0.3028	4772	133.4	-96.75	45.1838
EL-12	2241	566.9	-141.40	4.0360	4787	130.3	-96.64	45.2688
EL-12	2257	571.0	-143.10	2.3691	4802	127.4	-96.66	45.2253
EL-12	2274	575.4	-144.80	0.7046	4817	124.2	-96.56	45.2995
EL-12	2291	579.8	-142.20	3.3402	4833	121.0	-96.63	45.2036
EL-12	2308	583.9	-145.60	-2.6718	4848	117.9	-96.37	45.4386
EL-12	2325	588.3	-147.40	-1.7912	4863	114.7	-96.29	45.4927
EL-12	2342	593.2	-146.70	-1.0516	4878	111.6	-96.30	45.4577
EL-12	2359	597.6	-149.20	-3.5160	4894	108.5	-96.39	45.3426
EL-12	2376	602.5	-151.40	-5.6765	4909	105.3	-96.28	45.4268
EL-12	2393	607.0	-146.70	-0.9401	4924	102.2	-96.33	45.3518
EL-12	2410	611.9	-148.80	-3.0005	4939	99.4	-96.17	45.4891
EL-12	2427	615.7	-147.30	-1.4698	4955	96.3	-96.06	45.5741
EL-12	2444	619.9	-145.50	0.3641	4970	93.1	-96.09	45.5182
EL-12	2461	624.1	-147.80	-1.9020	4985	90.3	-96.21	45.3756

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-12	2478	627.6	-149.90	-3.9737	5001	87.5	-96.07	45.4930
EL-12	2495	629.7	-150.60	-4.6567	5016	84.4	-96.07	45.4680
EL-12	2512	631.1	-150.00	-4.0454	5031	81.5	-96.01	45.5045
EL-12	2529	631.8	-151.00	-5.0397	5047	79.0	-96.03	45.4643
EL-12	2546							
EL-14	0	23.9	-80.44	60.6092	2563	631.1	-151.80	-5.8454
EL-14	16	24.6	-80.54	60.5148	2580	629.4	-150.90	-4.9591
EL-14	32	27.4	-80.23	60.8475	2597	627.6	-149.70	-3.7737
EL-14	47	31.2	-80.41	60.6982	2614	625.2	-148.90	-2.9931
EL-14	63	35.2	-80.28	60.8605	2631	622.3	-148.90	-3.0165
EL-14	78	39.5	-80.24	60.9352	2649	619.2	-146.90	-1.0415
EL-14	94	44.0	-80.10	61.1116	2665	616.0	-148.60	-2.7674
EL-14	109	48.3	-80.15	61.0963	2683	612.9	-148.00	-2.1924
EL-14	124	52.6	-80.49	60.7910	2700	609.8	-148.30	-2.5175
EL-14	140	56.7	-80.01	61.3042	2717	606.6	-149.60	-3.8433
EL-14	155	60.5	-79.95	61.3949	2734	602.8	-148.20	-2.4740
EL-14	171	64.3	-79.98	61.3956	2751	599.0	-148.30	-2.6047
EL-14	186	68.2	-80.11	61.2971	2768	595.2	-148.00	-2.3354
EL-14	202	72.0	-79.92	61.5178	2785	591.1	-146.80	-1.1685
EL-14	217	75.6	-79.88	61.5869	2802	587.3	-148.80	-3.1992
EL-14	232	79.2	-79.95	61.5459	2819	583.9	-148.50	-2.9267
EL-14	248	82.6	-79.92	61.6034	2836	580.1	-148.70	-3.1574
EL-14	263	85.9	-80.32	61.2301	2853	576.4	-146.40	-0.8873
EL-14	279	89.3	-80.13	61.4475	2870	572.6	-144.00	1.4820
EL-14	294	92.6	-79.83	61.7742	2887	568.6	-144.90	0.5497
EL-14	309	95.7	-80.02	61.6092	2904	564.5	-144.00	1.4166
EL-14	325	99.1	-80.07	61.5867	2921	560.5	-142.20	3.1842
EL-14	340	102.5	-80.11	61.5742	2938	556.8	-140.10	5.2543
EL-14	355	105.6	-80.24	61.4692	2955	552.7	-138.00	7.3212
EL-14	371	109.0	-80.49	61.2467	2972	548.7	-136.00	9.2889
EL-14	386	115.5	-80.19	61.5992	2989	545.1	-136.00	9.2598
EL-14	402	119.2	-80.35	61.4691	3006	541.4	-133.00	12.2299
EL-14	417	122.6	-80.35	61.4965	3023	537.4	-129.30	15.8976
EL-14	432	126.0	-80.50	61.3740	3040	533.4	-124.80	20.3653
EL-14	448	129.5	-80.15	61.7523	3057	529.5	-123.00	22.1338
EL-14	463	133.2	-80.31	61.6222	3074	524.8	-119.80	25.2958
EL-14	479	136.6	-80.48	61.4797	3090	520.9	-116.00	29.0643
EL-14	494	140.0	-80.22	61.7671	3105	517.0	-112.60	32.4328
EL-14	509	143.5	-80.34	61.6754	3121	513.0	-110.40	34.6005
EL-14	525	146.9	-80.45	61.5929	3136	509.1	-107.60	37.3690
EL-14	540	150.4	-80.15	61.9211	3152	505.5	-105.40	39.5399
EL-14	555	153.9	-79.94	62.1594	3167	501.6	-103.60	41.3084
EL-14	571	157.1	-80.22	61.9053	3182	497.7	-101.80	43.0769
EL-14	586	160.6	-80.25	61.9036	3198	494.2	-100.50	44.3486
EL-14	602	164.0	-80.14	62.0410	3213	490.3	-99.76	45.0571
EL-14	617	167.5	-79.98	62.2293	3229	486.8	-98.31	46.4788
EL-14	632	171.0	-80.19	62.0476	3244	483.2	-97.73	47.0298
EL-14	648	174.5	-80.08	62.1858	3259	479.7	-96.85	47.8815

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-14	663	178.3	-79.90	62.3965	3275	476.2	-96.22	48.4832
EL-14	678	181.8	-79.68	62.6448	3290	472.4	-95.70	48.9725
EL-14	694	185.4	-79.98	62.3739	3305	468.8	-94.97	49.6734
EL-14	709	189.2	-79.74	62.6446	3321	465.0	-94.40	50.2127
EL-14	724	192.7	-79.58	62.8329	3336	461.5	-93.98	50.6044
EL-14	740	196.2	-79.47	62.9712	3352	458.1	-93.49	51.0670
EL-14	755	200.1	-79.08	63.3927	3367	454.6	-93.12	51.4087
EL-14	770	203.9	-79.38	63.1234	3383	450.8	-93.25	51.2480
EL-14	786	207.5	-79.19	63.3424	3398	447.4	-92.71	51.7605
EL-14	801	211.3	-79.13	63.4331	3413	443.9	-92.42	52.0223
EL-14	816	214.6	-78.82	63.7698	3429	440.5	-92.13	52.2848
EL-14	832	218.5	-78.96	63.6613	3444	437.0	-91.94	52.4465
EL-14	847	222.1	-78.82	63.8304	3460	433.6	-91.70	52.6590
EL-14	863	225.7	-78.71	63.9695	3475	429.6	-91.57	52.7567
EL-14	878	229.0	-78.57	64.1361	3491	425.8	-91.46	52.8360
EL-14	893	232.6	-78.41	64.3252	3506	422.4	-91.26	53.0086
EL-14	909	236.2	-78.45	64.3143	3522	419.0	-91.49	52.7511
EL-14	924	239.6	-78.34	64.4518	3537	415.6	-91.37	52.8436
EL-14	940	243.2	-78.14	64.6809	3553	411.9	-91.23	52.9537
EL-14	955	246.8	-78.05	64.7999	3568	408.3	-91.47	52.6847
EL-14	971	250.8	-77.84	65.0423	3583	404.9	-91.52	52.6072
EL-14	986	254.4	-77.64	65.2713	3599	400.9	-91.59	52.5049
EL-14	1001	257.8	-77.68	65.2588	3614	397.2	-91.55	52.5150
EL-14	1017	261.5	-77.38	65.5887	3630	393.6	-91.76	52.2759
EL-14	1032	265.4	-77.52	65.4802	3645	389.9	-92.05	51.9560
EL-14	1048	269.1	-77.55	65.4801	3660	386.3	-92.23	51.7469
EL-14	1063	272.8	-77.53	65.5300	3676	382.4	-92.24	51.7054
EL-14	1078	276.8	-77.04	66.0523	3691	378.7	-92.53	51.3855
EL-14	1094	280.8	-77.19	65.9346	3707	375.4	-92.42	51.4689
EL-14	1109	284.5	-77.42	65.7345	3722	371.8	-92.74	51.1198
EL-14	1124	288.2	-77.51	65.6744	3737	368.2	-92.75	51.0807
EL-14	1140	292.2	-77.84	65.3767	3753	364.3	-92.89	50.9092
EL-14	1155	296.0	-77.58	65.6674	3768	360.7	-93.05	50.7201
EL-14	1171	299.7	-77.88	65.3973	3783	357.2	-93.30	50.4418
EL-14	1186	303.5	-77.32	65.9880	3799	353.6	-93.44	50.2727
EL-14	1201	307.2	-76.87	66.4679	3814	349.7	-93.56	50.1212
EL-14	1217	310.7	-77.49	65.8762	3829	346.2	-93.65	50.0030
EL-14	1232	314.8	-77.36	66.0393	3845	342.6	-93.59	50.0339
EL-14	1247	318.6	-77.85	65.5800	3860	339.1	-93.80	49.7956
EL-14	1262	322.1	-77.48	65.9783	3875	335.8	-94.05	49.5189
EL-14	1278	326.2	-77.93	65.5614	3891	332.0	-94.00	49.5382
EL-14	1293	330.0	-77.34	66.1821	3906	328.2	-94.48	49.0275
EL-14	1308	333.8	-77.74	65.8128	3921	324.7	-94.21	49.2693
EL-14	1324	337.6	-77.92	65.6635	3936	321.2	-94.50	48.9510
EL-14	1339	341.2	-76.94	66.6726	3952	317.4	-94.57	48.8503
EL-14	1354	345.0	-77.43	66.2133	3967	313.6	-94.80	48.5896
EL-14	1369	348.8	-77.66	66.0140	3982	310.4	-94.63	48.7337
EL-14	1384	352.7	-77.54	66.1655	3998	306.9	-94.75	48.5855
EL-14	1400	356.3	-77.38	66.3546	4013	303.2	-95.14	48.1656

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-14	1415	360.1	-77.85	65.9153	4028	299.4	-95.03	48.2449
EL-14	1430	364.0	-77.28	66.5168	4044	296.0	-95.24	48.0074
EL-14	1445	367.6	-77.25	66.5759	4059	292.2	-95.22	47.9967
EL-14	1460	371.5	-77.49	66.3674	4074	288.5	-95.31	47.8768
EL-14	1475	375.1	-77.80	66.0864	4089	284.8	-95.30	47.8569
EL-14	1491	378.7	-77.70	66.2155	4105	281.4	-95.47	47.6595
EL-14	1506	382.7	-77.91	66.0378	4120	277.9	-95.64	47.4612
EL-14	1521	386.3	-77.76	66.2169	4135	274.5	-95.54	47.5337
EL-14	1536	390.2	-78.23	65.7784	4150	271.1	-95.61	47.4363
EL-14	1551	394.2	-78.18	65.8607	4166	267.7	-95.59	47.4288
EL-14	1566	398.2	-78.11	65.9631	4181	264.0	-95.69	47.2989
EL-14	1581	401.8	-79.09	65.0122	4196	260.6	-95.89	47.0714
EL-14	1596	405.5	-78.91	65.2220	4211	257.2	-95.56	47.3740
EL-14	1611	409.5	-79.47	64.6944	4227	253.6	-95.76	47.1449
EL-14	1626	413.2	-80.23	63.9642	4242	249.9	-95.80	47.0750
EL-14	1642	416.9	-80.73	63.4941	4257	246.0	-95.89	46.9535
EL-14	1657	420.9	-81.51	62.7464	4272	242.4	-95.89	46.9244
EL-14	1672	424.9	-82.88	61.4088	4287	238.7	-95.90	46.8845
EL-14	1687	428.6	-83.16	61.1587	4303	235.1	-96.24	46.5154
EL-14	1702	432.4	-84.51	59.8394	4318	231.5	-95.99	46.7363
EL-14	1717	435.8	-85.16	59.2168	4333	227.9	-96.03	46.6673
EL-14	1732	439.8	-86.11	58.2991	4348	224.3	-96.18	46.4882
EL-14	1747	443.6	-87.26	57.1798	4363	220.7	-96.30	46.3391
EL-14	1762	447.4	-88.36	56.1105	4378	217.4	-96.34	46.2724
EL-14	1777	450.8	-89.14	55.3580	4393	213.8	-96.28	46.3033
EL-14	1792	454.3	-90.57	53.9563	4409	210.5	-96.24	46.3167
EL-14	1808	458.1	-91.76	52.7970	4424	207.2	-96.42	46.1100
EL-14	1823	461.5	-92.96	51.6244	4439	203.9	-96.65	45.8534
EL-14	1838	465.4	-94.25	50.3660	4454	200.3	-96.47	46.0043
EL-14	1853	469.2	-95.90	48.7467	4469	197.1	-96.57	45.8784
EL-14	1868	473.3	-97.66	47.0198	4484	193.8	-96.96	45.4618
EL-14	1883	477.1	-99.18	45.5305	4499	190.8	-96.43	45.9675
EL-14	1899	481.0	-100.90	43.8420	4514	187.5	-96.56	45.8109
EL-14	1914	485.2	-102.90	41.8759	4529	184.3	-96.52	45.8250
EL-14	1929	489.3	-105.10	39.7090	4545	181.3	-96.61	45.7108
EL-14	1944	492.9	-106.80	38.0381	4560	178.0	-96.67	45.6241
EL-14	1959	496.4	-108.80	36.0664	4575	174.8	-96.49	45.7783
EL-14	1975	500.3	-110.50	34.3979	4590	171.6	-96.56	45.6824
EL-14	1990	504.5	-112.60	32.3318	4605	168.6	-96.69	45.5282
EL-14	2005	508.5	-115.10	29.8641	4620	165.4	-96.78	45.4123
EL-14	2020	513.0	-118.70	26.3005	4635	162.2	-96.70	45.4665
EL-14	2038	517.6	-120.50	24.5377	4650	158.9	-96.64	45.4998
EL-14	2054	521.9	-120.00	25.0724	4665	155.5	-96.79	45.3223
EL-14	2071	525.8	-128.00	17.1039	4680	152.3	-96.81	45.2765
EL-14	2088	530.1	-130.20	14.9386	4696	149.1	-96.87	45.1906
EL-14	2105	534.1	-131.00	14.1710	4711	145.9	-96.78	45.2548
EL-14	2173	549.7	-136.20	9.0970	4726	142.7	-96.73	45.2789
EL-14	2190	554.4	-141.80	3.5350	4741	139.5	-96.80	45.1831
EL-14	2207	558.8	-144.00	1.3705	4756	136.6	-96.66	45.2997

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-14	2224	562.8	-145.10	0.3028	4772	133.4	-96.75	45.1838
EL-14	2241	566.9	-141.40	4.0360	4787	130.3	-96.64	45.2688
EL-14	2257	571.0	-143.10	2.3691	4802	127.4	-96.66	45.2253
EL-14	2274	575.4	-144.80	0.7046	4817	124.2	-96.56	45.2995
EL-14	2291	579.8	-142.20	3.3402	4833	121.0	-96.63	45.2036
EL-14	2308	583.9	-145.60	-2.6718	4848	117.9	-96.37	45.4386
EL-14	2325	588.3	-147.40	-1.7912	4863	114.7	-96.29	45.4927
EL-14	2342	593.2	-146.70	-1.0516	4878	111.6	-96.30	45.4577
EL-14	2359	597.6	-149.20	-3.5160	4894	108.5	-96.39	45.3426
EL-14	2376	602.5	-151.40	-5.6765	4909	105.3	-96.28	45.4268
EL-14	2393	607.0	-146.70	-0.9401	4924	102.2	-96.33	45.3518
EL-14	2410	611.9	-148.80	-3.0005	4939	99.4	-96.17	45.4891
EL-14	2427	615.7	-147.30	-1.4698	4955	96.3	-96.06	45.5741
EL-14	2444	619.9	-145.50	0.3641	4970	93.1	-96.09	45.5182
EL-14	2461	624.1	-147.80	-1.9020	4985	90.3	-96.21	45.3756
EL-14	2478	627.6	-149.90	-3.9737	5001	87.5	-96.07	45.4930
EL-14	2495	629.7	-150.60	-4.6567	5016	84.4	-96.07	45.4680
EL-14	2512	631.1	-150.00	-4.0454	5031	81.5	-96.01	45.5045
EL-14	2529	631.8	-151.00	-5.0397	5047	79.0	-96.03	45.4643
EL-14	2546							
EL-18	0	23.9	-80.44	60.6092	2563	631.1	-151.80	-5.8454
EL-18	16	24.6	-80.54	60.5148	2580	629.4	-150.90	-4.9591
EL-18	32	27.4	-80.23	60.8475	2597	627.6	-149.70	-3.7737
EL-18	47	31.2	-80.41	60.6982	2614	625.2	-148.90	-2.9931
EL-18	63	35.2	-80.28	60.8605	2631	622.3	-148.90	-3.0165
EL-18	78	39.5	-80.24	60.9352	2649	619.2	-146.90	-1.0415
EL-18	94	44.0	-80.10	61.1116	2665	616.0	-148.60	-2.7674
EL-18	109	48.3	-80.15	61.0963	2683	612.9	-148.00	-2.1924
EL-18	124	52.6	-80.49	60.7910	2700	609.8	-148.30	-2.5175
EL-18	140	56.7	-80.01	61.3042	2717	606.6	-149.60	-3.8433
EL-18	155	60.5	-79.95	61.3949	2734	602.8	-148.20	-2.4740
EL-18	171	64.3	-79.98	61.3956	2751	599.0	-148.30	-2.6047
EL-18	186	68.2	-80.11	61.2971	2768	595.2	-148.00	-2.3354
EL-18	202	72.0	-79.92	61.5178	2785	591.1	-146.80	-1.1685
EL-18	217	75.6	-79.88	61.5869	2802	587.3	-148.80	-3.1992
EL-18	232	79.2	-79.95	61.5459	2819	583.9	-148.50	-2.9267
EL-18	248	82.6	-79.92	61.6034	2836	580.1	-148.70	-3.1574
EL-18	263	85.9	-80.32	61.2301	2853	576.4	-146.40	-0.8873
EL-18	279	89.3	-80.13	61.4475	2870	572.6	-144.00	1.4820
EL-18	294	92.6	-79.83	61.7742	2887	568.6	-144.90	0.5497
EL-18	309	95.7	-80.02	61.6092	2904	564.5	-144.00	1.4166
EL-18	325	99.1	-80.07	61.5867	2921	560.5	-142.20	3.1842
EL-18	340	102.5	-80.11	61.5742	2938	556.8	-140.10	5.2543
EL-18	355	105.6	-80.24	61.4692	2955	552.7	-138.00	7.3212
EL-18	371	109.0	-80.49	61.2467	2972	548.7	-136.00	9.2889
EL-18	386	115.5	-80.19	61.5992	2989	545.1	-136.00	9.2598
EL-18	402	119.2	-80.35	61.4691	3006	541.4	-133.00	12.2299
EL-18	417	122.6	-80.35	61.4965	3023	537.4	-129.30	15.8976

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-18	432	126.0	-80.50	61.3740	3040	533.4	-124.80	20.3653
EL-18	448	129.5	-80.15	61.7523	3057	529.5	-123.00	22.1338
EL-18	463	133.2	-80.31	61.6222	3074	524.8	-119.80	25.2958
EL-18	479	136.6	-80.48	61.4797	3090	520.9	-116.00	29.0643
EL-18	494	140.0	-80.22	61.7671	3105	517.0	-112.60	32.4328
EL-18	509	143.5	-80.34	61.6754	3121	513.0	-110.40	34.6005
EL-18	525	146.9	-80.45	61.5929	3136	509.1	-107.60	37.3690
EL-18	540	150.4	-80.15	61.9211	3152	505.5	-105.40	39.5399
EL-18	555	153.9	-79.94	62.1594	3167	501.6	-103.60	41.3084
EL-18	571	157.1	-80.22	61.9053	3182	497.7	-101.80	43.0769
EL-18	586	160.6	-80.25	61.9036	3198	494.2	-100.50	44.3486
EL-18	602	164.0	-80.14	62.0410	3213	490.3	-99.76	45.0571
EL-18	617	167.5	-79.98	62.2293	3229	486.8	-98.31	46.4788
EL-18	632	171.0	-80.19	62.0476	3244	483.2	-97.73	47.0298
EL-18	648	174.5	-80.08	62.1858	3259	479.7	-96.85	47.8815
EL-18	663	178.3	-79.90	62.3965	3275	476.2	-96.22	48.4832
EL-18	678	181.8	-79.68	62.6448	3290	472.4	-95.70	48.9725
EL-18	694	185.4	-79.98	62.3739	3305	468.8	-94.97	49.6734
EL-18	709	189.2	-79.74	62.6446	3321	465.0	-94.40	50.2127
EL-18	724	192.7	-79.58	62.8329	3336	461.5	-93.98	50.6044
EL-18	740	196.2	-79.47	62.9712	3352	458.1	-93.49	51.0670
EL-18	755	200.1	-79.08	63.3927	3367	454.6	-93.12	51.4087
EL-18	770	203.9	-79.38	63.1234	3383	450.8	-93.25	51.2480
EL-18	786	207.5	-79.19	63.3424	3398	447.4	-92.71	51.7605
EL-18	801	211.3	-79.13	63.4331	3413	443.9	-92.42	52.0223
EL-18	816	214.6	-78.82	63.7698	3429	440.5	-92.13	52.2848
EL-18	832	218.5	-78.96	63.6613	3444	437.0	-91.94	52.4465
EL-18	847	222.1	-78.82	63.8304	3460	433.6	-91.70	52.6590
EL-18	863	225.7	-78.71	63.9695	3475	429.6	-91.57	52.7567
EL-18	878	229.0	-78.57	64.1361	3491	425.8	-91.46	52.8360
EL-18	893	232.6	-78.41	64.3252	3506	422.4	-91.26	53.0086
EL-18	909	236.2	-78.45	64.3143	3522	419.0	-91.49	52.7511
EL-18	924	239.6	-78.34	64.4518	3537	415.6	-91.37	52.8436
EL-18	940	243.2	-78.14	64.6809	3553	411.9	-91.23	52.9537
EL-18	955	246.8	-78.05	64.7999	3568	408.3	-91.47	52.6847
EL-18	971	250.8	-77.84	65.0423	3583	404.9	-91.52	52.6072
EL-18	986	254.4	-77.64	65.2713	3599	400.9	-91.59	52.5049
EL-18	1001	257.8	-77.68	65.2588	3614	397.2	-91.55	52.5150
EL-18	1017	261.5	-77.38	65.5887	3630	393.6	-91.76	52.2759
EL-18	1032	265.4	-77.52	65.4802	3645	389.9	-92.05	51.9560
EL-18	1048	269.1	-77.55	65.4801	3660	386.3	-92.23	51.7469
EL-18	1063	272.8	-77.53	65.5300	3676	382.4	-92.24	51.7054
EL-18	1078	276.8	-77.04	66.0523	3691	378.7	-92.53	51.3855
EL-18	1094	280.8	-77.19	65.9346	3707	375.4	-92.42	51.4689
EL-18	1109	284.5	-77.42	65.7345	3722	371.8	-92.74	51.1198
EL-18	1124	288.2	-77.51	65.6744	3737	368.2	-92.75	51.0807
EL-18	1140	292.2	-77.84	65.3767	3753	364.3	-92.89	50.9092
EL-18	1155	296.0	-77.58	65.6674	3768	360.7	-93.05	50.7201
EL-18	1171	299.7	-77.88	65.3973	3783	357.2	-93.30	50.4418

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-18	1186	303.5	-77.32	65.9880	3799	353.6	-93.44	50.2727
EL-18	1201	307.2	-76.87	66.4679	3814	349.7	-93.56	50.1212
EL-18	1217	310.7	-77.49	65.8762	3829	346.2	-93.65	50.0030
EL-18	1232	314.8	-77.36	66.0393	3845	342.6	-93.59	50.0339
EL-18	1247	318.6	-77.85	65.5800	3860	339.1	-93.80	49.7956
EL-18	1262	322.1	-77.48	65.9783	3875	335.8	-94.05	49.5189
EL-18	1278	326.2	-77.93	65.5614	3891	332.0	-94.00	49.5382
EL-18	1293	330.0	-77.34	66.1821	3906	328.2	-94.48	49.0275
EL-18	1308	333.8	-77.74	65.8128	3921	324.7	-94.21	49.2693
EL-18	1324	337.6	-77.92	65.6635	3936	321.2	-94.50	48.9510
EL-18	1339	341.2	-76.94	66.6726	3952	317.4	-94.57	48.8503
EL-18	1354	345.0	-77.43	66.2133	3967	313.6	-94.80	48.5896
EL-18	1369	348.8	-77.66	66.0140	3982	310.4	-94.63	48.7337
EL-18	1384	352.7	-77.54	66.1655	3998	306.9	-94.75	48.5855
EL-18	1400	356.3	-77.38	66.3546	4013	303.2	-95.14	48.1656
EL-18	1415	360.1	-77.85	65.9153	4028	299.4	-95.03	48.2449
EL-18	1430	364.0	-77.28	66.5168	4044	296.0	-95.24	48.0074
EL-18	1445	367.6	-77.25	66.5759	4059	292.2	-95.22	47.9967
EL-18	1460	371.5	-77.49	66.3674	4074	288.5	-95.31	47.8768
EL-18	1475	375.1	-77.80	66.0864	4089	284.8	-95.30	47.8569
EL-18	1491	378.7	-77.70	66.2155	4105	281.4	-95.47	47.6595
EL-18	1506	382.7	-77.91	66.0378	4120	277.9	-95.64	47.4612
EL-18	1521	386.3	-77.76	66.2169	4135	274.5	-95.54	47.5337
EL-18	1536	390.2	-78.23	65.7784	4150	271.1	-95.61	47.4363
EL-18	1551	394.2	-78.18	65.8607	4166	267.7	-95.59	47.4288
EL-18	1566	398.2	-78.11	65.9631	4181	264.0	-95.69	47.2989
EL-18	1581	401.8	-79.09	65.0122	4196	260.6	-95.89	47.0714
EL-18	1596	405.5	-78.91	65.2220	4211	257.2	-95.56	47.3740
EL-18	1611	409.5	-79.47	64.6944	4227	253.6	-95.76	47.1449
EL-18	1626	413.2	-80.23	63.9642	4242	249.9	-95.80	47.0750
EL-18	1642	416.9	-80.73	63.4941	4257	246.0	-95.89	46.9535
EL-18	1657	420.9	-81.51	62.7464	4272	242.4	-95.89	46.9244
EL-18	1672	424.9	-82.88	61.4088	4287	238.7	-95.90	46.8845
EL-18	1687	428.6	-83.16	61.1587	4303	235.1	-96.24	46.5154
EL-18	1702	432.4	-84.51	59.8394	4318	231.5	-95.99	46.7363
EL-18	1717	435.8	-85.16	59.2168	4333	227.9	-96.03	46.6673
EL-18	1732	439.8	-86.11	58.2991	4348	224.3	-96.18	46.4882
EL-18	1747	443.6	-87.26	57.1798	4363	220.7	-96.30	46.3391
EL-18	1762	447.4	-88.36	56.1105	4378	217.4	-96.34	46.2724
EL-18	1777	450.8	-89.14	55.3580	4393	213.8	-96.28	46.3033
EL-18	1792	454.3	-90.57	53.9563	4409	210.5	-96.24	46.3167
EL-18	1808	458.1	-91.76	52.7970	4424	207.2	-96.42	46.1100
EL-18	1823	461.5	-92.96	51.6244	4439	203.9	-96.65	45.8534
EL-18	1838	465.4	-94.25	50.3660	4454	200.3	-96.47	46.0043
EL-18	1853	469.2	-95.90	48.7467	4469	197.1	-96.57	45.8784
EL-18	1868	473.3	-97.66	47.0198	4484	193.8	-96.96	45.4618
EL-18	1883	477.1	-99.18	45.5305	4499	190.8	-96.43	45.9675
EL-18	1899	481.0	-100.90	43.8420	4514	187.5	-96.56	45.8109
EL-18	1914	485.2	-102.90	41.8759	4529	184.3	-96.52	45.8250

Table 2. Magnetic Susceptibility vs. Temperature Data For Selected Samples From the, Elba Cut, Howard County, Nebraska.

Sample	Heating Time (sec)	Heating Temperature (°C)	Heating Susceptibility (raw)	Heating Susceptibility (corrected)	Cooling Time (sec)	Cooling Temperature (°C)	Cooling Susceptibility (raw)	Cooling Susceptibility (corrected)
EL-18	1929	489.3	-105.10	39.7090	4545	181.3	-96.61	45.7108
EL-18	1944	492.9	-106.80	38.0381	4560	178.0	-96.67	45.6241
EL-18	1959	496.4	-108.80	36.0664	4575	174.8	-96.49	45.7783
EL-18	1975	500.3	-110.50	34.3979	4590	171.6	-96.56	45.6824
EL-18	1990	504.5	-112.60	32.3318	4605	168.6	-96.69	45.5282
EL-18	2005	508.5	-115.10	29.8641	4620	165.4	-96.78	45.4123
EL-18	2020	513.0	-118.70	26.3005	4635	162.2	-96.70	45.4665
EL-18	2038	517.6	-120.50	24.5377	4650	158.9	-96.64	45.4998
EL-18	2054	521.9	-120.00	25.0724	4665	155.5	-96.79	45.3223
EL-18	2071	525.8	-128.00	17.1039	4680	152.3	-96.81	45.2765
EL-18	2088	530.1	-130.20	14.9386	4696	149.1	-96.87	45.1906
EL-18	2105	534.1	-131.00	14.1710	4711	145.9	-96.78	45.2548
EL-18	2173	549.7	-136.20	9.0970	4726	142.7	-96.73	45.2789
EL-18	2190	554.4	-141.80	3.5350	4741	139.5	-96.80	45.1831
EL-18	2207	558.8	-144.00	1.3705	4756	136.6	-96.66	45.2997
EL-18	2224	562.8	-145.10	0.3028	4772	133.4	-96.75	45.1838
EL-18	2241	566.9	-141.40	4.0360	4787	130.3	-96.64	45.2688
EL-18	2257	571.0	-143.10	2.3691	4802	127.4	-96.66	45.2253
EL-18	2274	575.4	-144.80	0.7046	4817	124.2	-96.56	45.2995
EL-18	2291	579.8	-142.20	3.3402	4833	121.0	-96.63	45.2036
EL-18	2308	583.9	-145.60	-2.6718	4848	117.9	-96.37	45.4386
EL-18	2325	588.3	-147.40	-1.7912	4863	114.7	-96.29	45.4927
EL-18	2342	593.2	-146.70	-1.0516	4878	111.6	-96.30	45.4577
EL-18	2359	597.6	-149.20	-3.5160	4894	108.5	-96.39	45.3426
EL-18	2376	602.5	-151.40	-5.6765	4909	105.3	-96.28	45.4268
EL-18	2393	607.0	-146.70	-0.9401	4924	102.2	-96.33	45.3518
EL-18	2410	611.9	-148.80	-3.0005	4939	99.4	-96.17	45.4891
EL-18	2427	615.7	-147.30	-1.4698	4955	96.3	-96.06	45.5741
EL-18	2444	619.9	-145.50	0.3641	4970	93.1	-96.09	45.5182
EL-18	2461	624.1	-147.80	-1.9020	4985	90.3	-96.21	45.3756
EL-18	2478	627.6	-149.90	-3.9737	5001	87.5	-96.07	45.4930
EL-18	2495	629.7	-150.60	-4.6567	5016	84.4	-96.07	45.4680
EL-18	2512	631.1	-150.00	-4.0454	5031	81.5	-96.01	45.5045
EL-18	2529	631.8	-151.00	-5.0397	5047	79.0	-96.03	45.4643
EL-18	2546							
EL-18								
EL-21	0	34.7	551.90	693.0364	2682	672.7	-151.00	-4.7093
EL-21	18	35.2	551.80	692.9404	2699	671.6	-149.40	-3.1182
EL-21	35	38.0	553.90	695.0631	2716	670.1	-147.30	-1.0303
EL-21	51	41.5	556.80	697.9913	2733	668.3	-148.50	-2.2449
EL-21	68	45.5	560.40	701.6237	2750	665.8	-151.30	-5.0651
EL-21	84	49.8	562.50	703.7584	2767	662.9	-149.40	-3.1885
EL-21	101	54.4	566.20	707.4956	2785	660.0	-147.50	-1.3119
EL-21	118	58.5	568.50	709.8287	2802	656.4	-149.10	-2.9410
EL-21	134	62.6	572.30	713.6618	2819	652.5	-149.00	-2.8725
EL-21	151	66.4	574.50	715.8925	2836	648.9	-150.10	-4.0016
EL-21	168	70.2	576.30	717.7232	2854	645.3	-148.70	-2.6307
EL-21	184	74.3	580.50	721.9564	2871	641.4	-148.00	-1.9622
EL-21	201	78.2	580.70	722.1879	2888	637.2	-146.60	-0.5961

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EL-21	218	81.8	585.20	726.7169	2905	633.3	-143.10	2.8724
EL-21	234	85.6	585.20	726.7477	2923	629.0	-139.50	6.4376
EL-21	251	89.3	588.00	729.5775	2940	624.5	-135.70	10.2013
EL-21	267	92.9	590.70	732.3066	2957	619.9	-132.60	13.2641
EL-21	284	96.5	591.80	733.4357	2974	615.7	-129.50	16.3302
EL-21	300	99.9	595.10	736.7631	2991	611.5	-123.90	21.8963
EL-21	317	103.5	598.50	740.1923	3008	607.3	-122.10	23.6623
EL-21	334	107.2	599.30	741.0221	3026	602.8	-118.70	27.0260
EL-21	350	110.6	604.90	746.6497	3042	599.4	-115.40	30.2985
EL-21	367	114.5	604.20	745.9811	3058	595.2	-113.40	32.2646
EL-21	384	117.9	606.80	748.6086	3073	591.4	-109.20	36.4339
EL-21	400	121.6	609.40	751.2385	3089	587.7	-103.20	42.4040
EL-21	417	125.2	612.60	754.4675	3104	583.9	-89.96	55.6133
EL-21	433	128.7	614.30	756.1958	3120	580.1	-72.92	72.6226
EL-21	450	132.4	618.70	760.6257	3136	576.0	-62.21	83.2995
EL-21	466	136.1	622.10	764.0556	3151	572.6	-54.97	90.5120
EL-21	483	139.8	624.50	766.4855	3167	569.3	-49.13	96.3253
EL-21	500	143.5	627.30	769.3154	3182	565.5	-43.28	102.1446
EL-21	516	147.2	633.40	775.4453	3198	562.2	-35.43	109.9680
EL-21	533	150.7	635.80	777.8735	3214	558.1	-25.52	119.8448
EL-21	549	154.4	637.90	780.0035	3229	554.4	-12.97	132.3650
EL-21	566	158.1	643.90	786.0334	3245	550.7	1.18	146.4821
EL-21	583	162.2	646.60	788.7665	3261	547.1	18.16	163.4360
EL-21	599	165.9	648.70	790.8964	3276	543.1	38.97	184.2137
EL-21	616	170.0	652.60	794.8295	3292	539.4	60.48	205.6938
EL-21	632	173.7	654.70	796.9594	3307	535.4	82.67	227.8515
EL-21	649	177.8	659.20	801.4925	3323	531.1	109.40	254.5467
EL-21	666	181.3	660.40	802.7208	3340	526.2	142.80	287.9071
EL-21	682	185.4	662.50	804.8539	3357	521.5	168.20	313.2692
EL-21	699	189.2	666.00	808.3846	3374	517.6	192.40	337.4377
EL-21	715	193.0	669.10	811.5153	3391	513.3	215.20	360.2029
EL-21	731	197.1	676.40	818.8484	3409	509.4	236.20	381.1714
EL-21	748	200.9	677.60	820.0791	3426	505.2	252.60	397.5375
EL-21	765	205.0	680.00	822.5122	3443	501.3	268.60	413.5060
EL-21	781	209.1	684.80	827.3453	3460	497.4	280.40	425.2745
EL-21	798	213.0	686.40	828.9769	3477	493.5	289.10	433.9430
EL-21	814	216.5	688.20	830.8052	3494	489.7	293.10	437.9123
EL-21	831	220.4	692.80	835.4366	3511	485.5	303.10	447.8784
EL-21	847	224.6	696.70	839.3706	3528	481.6	303.80	448.5468
EL-21	864	228.4	697.70	840.4013	3545	477.5	309.80	454.5137
EL-21	881	232.3	700.30	843.0328	3562	473.6	311.70	456.3822
EL-21	897	236.5	703.50	846.2667	3580	469.8	315.20	459.8515
EL-21	914	240.7	707.90	850.7007	3596	465.7	316.70	461.3184
EL-21	931	244.9	708.90	851.7346	3613	461.5	319.60	464.1844
EL-21	947	248.8	714.20	857.0661	3631	457.8	320.40	464.9545
EL-21	964	253.3	714.90	857.8025	3647	453.6	319.50	464.0206
EL-21	981	257.2	719.30	862.2339	3664	449.6	322.10	466.5883
EL-21	997	261.5	718.80	861.7687	3681	445.2	321.50	465.9528
EL-21	1014	265.2	721.80	864.7986	3698	440.8	320.10	464.5172

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EL-21	1031	269.4	721.90	864.9326	3715	436.4	319.20	463.5817
EL-21	1047	273.7	723.70	866.7673	3732	432.4	318.30	462.6494
EL-21	1064	277.6	724.30	867.3987	3750	428.3	317.30	461.6162
EL-21	1081	281.9	727.80	870.9335	3766	424.3	315.70	459.9839
EL-21	1098	286.2	726.20	869.3682	3783	420.0	313.80	458.0492
EL-21	1114	290.5	727.80	871.0029	3801	415.9	312.70	456.9161
EL-21	1131	294.5	728.80	872.0353	3817	411.6	312.70	456.8813
EL-21	1148	298.6	727.30	870.5684	3834	407.3	314.70	458.8466
EL-21	1165	302.6	728.10	871.4007	3851	403.0	310.10	454.2119
EL-21	1182	306.9	727.40	870.7355	3868	399.1	309.40	453.4803
EL-21	1199	311.3	726.80	870.1710	3885	394.8	306.20	450.2456
EL-21	1215	315.4	726.50	869.9041	3902	390.9	306.70	450.7141
EL-21	1232	319.4	724.80	868.2365	3919	386.6	305.20	449.1794
EL-21	1249	323.5	723.50	866.9696	3936	382.7	303.30	447.2478
EL-21	1266	327.6	724.30	867.8027	3953	378.7	304.30	448.2155
EL-21	1282	331.7	718.20	861.7358	3970	374.8	301.20	445.0840
EL-21	1299	336.1	718.70	862.2714	3987	370.6	299.50	443.3501
EL-21	1316	340.6	716.30	859.9077	4004	366.4	296.60	440.4161
EL-21	1333	344.4	714.80	858.4384	4021	362.2	297.40	441.1822
EL-21	1350	348.5	712.20	855.8716	4037	358.4	293.90	437.6515
EL-21	1367	353.0	710.20	853.9079	4054	354.2	293.70	437.4176
EL-21	1384	357.2	708.80	852.5418	4071	350.3	293.90	437.5861
EL-21	1400	361.6	704.10	847.8773	4088	346.5	289.70	433.3554
EL-21	1417	365.8	701.60	845.4113	4105	342.3	290.20	433.8215
EL-21	1434	370.0	698.40	842.2452	4122	338.2	288.60	432.1884
EL-21	1451	374.2	698.50	842.3792	4139	334.4	289.50	433.0576
EL-21	1468	378.4	693.10	837.0131	4156	330.6	285.60	429.1270
EL-21	1485	382.7	687.70	831.6478	4173	326.5	285.60	429.0938
EL-21	1502	387.2	687.60	831.5842	4190	322.4	283.90	427.3607
EL-21	1519	391.2	680.20	824.2166	4207	318.3	284.10	427.5276
EL-21	1536	395.1	676.60	820.6479	4223	313.9	283.60	426.9920
EL-21	1553	399.4	672.50	816.5828	4240	309.8	280.30	423.6589
EL-21	1570	403.7	668.20	812.3175	4257	305.8	280.30	423.6266
EL-21	1586	408.3	663.90	808.0547	4274	301.7	279.90	423.1935
EL-21	1603	412.6	655.30	799.4894	4291	297.7	278.10	421.3611
EL-21	1620	416.9	648.30	792.5241	4308	294.0	277.40	420.6312
EL-21	1637	421.2	642.90	787.1589	4325	289.7	276.90	420.0965
EL-21	1654	425.2	631.70	775.9912	4342	285.6	275.70	418.8634
EL-21	1671	429.2	626.30	770.6235	4358	281.9	271.10	414.2335
EL-21	1688	433.3	616.20	760.5566	4375	277.9	273.30	416.4012
EL-21	1705	437.7	604.70	749.0922	4392	273.7	271.90	414.9672
EL-21	1721	442.0	594.30	738.7269	4409	269.7	270.80	413.8349
EL-21	1738	446.4	582.10	726.5624	4426	265.7	271.00	414.0026
EL-21	1755	450.5	576.50	720.9956	4443	262.0	270.70	413.6727
EL-21	1772	454.9	560.20	704.7311	4460	258.1	267.70	410.6412
EL-21	1789	459.0	546.00	690.5642	4477	254.1	269.10	412.0089
EL-21	1806	463.4	539.90	684.4998	4493	250.2	265.40	408.2774
EL-21	1823	467.9	520.40	665.0361	4510	246.3	267.30	410.1459
EL-21	1840	472.0	506.00	650.6693	4527	242.4	267.60	410.4144

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EL-21	1857	475.9	492.50	637.2008	4544	238.5	263.90	406.6829
EL-21	1874	480.0	474.20	618.9339	4561	234.6	263.60	406.3514
EL-21	1891	484.5	456.80	601.5703	4578	230.7	262.70	405.4199
EL-21	1908	489.0	432.70	577.5066	4594	226.8	261.10	403.7884
EL-21	1925	493.5	414.60	559.4430	4611	222.6	261.50	404.1544
EL-21	1942	498.1	394.80	539.6801	4628	218.5	262.90	405.5213
EL-21	1959	501.9	376.70	521.6108	4645	214.1	259.80	402.3857
EL-21	1975	505.8	353.90	498.8423	4662	209.7	261.70	404.2502
EL-21	1992	510.4	331.60	476.5795	4678	205.8	261.20	403.7187
EL-21	2009	514.7	304.00	449.0142	4695	201.7	256.20	398.6856
EL-21	2026	518.9	282.50	427.5482	4712	197.9	258.90	401.3549
EL-21	2043	522.9	252.90	397.9805	4729	193.8	256.00	398.4218
EL-21	2060	527.1	229.00	374.1144	4745	190.0	255.50	397.8911
EL-21	2077	531.4	203.40	348.5491	4762	186.2	256.60	398.9604
EL-21	2094	535.7	177.60	322.7839	4779	182.4	253.80	396.1297
EL-21	2111	540.4	154.20	299.4218	4795	178.6	253.60	395.8990
EL-21	2128	544.7	129.80	275.0566	4812	174.8	251.90	394.1683
EL-21	2143	548.4	112.20	257.4865	4829	171.3	251.50	393.7400
EL-21	2159	552.4	91.11	236.4288	4845	167.8	251.30	393.5117
EL-21	2174	556.1	72.03	217.3787	4862	164.0	251.90	394.0810
EL-21	2190	559.5	56.04	201.4162	4879	160.3	248.50	390.6511
EL-21	2205	563.2	38.89	184.2961	4895	156.8	250.10	392.2228
EL-21	2220	567.2	23.28	168.7184	4912	153.1	247.20	389.2930
EL-21	2236	571.3	7.98	153.4525	4929	149.6	249.00	391.0647
EL-21	2251	575.0	-6.97	138.5314	4945	146.1	248.90	390.9364
EL-21	2267	578.4	-23.46	122.0689	4962	142.7	244.90	386.9089
EL-21	2282	582.9	-48.47	97.0952	4978	139.5	247.10	389.0831
EL-21	2298	587.0	-70.64	74.9583	4995	136.1	247.30	389.2556
EL-21	2313	591.4	-83.52	62.1139	5011	132.9	245.50	387.4297
EL-21	2329	594.9	-91.39	54.2721	5028	129.5	244.30	386.2023
EL-21	2344	599.0	-96.53	49.1653	5045	126.0	245.30	387.1740
EL-21	2360	603.5	-103.20	42.5316	5061	122.6	244.30	386.1465
EL-21	2375	608.0	-108.40	37.3680	5078	119.2	245.10	386.9191
EL-21	2391	612.2	-113.80	32.0019	5094	115.5	244.10	385.8892
EL-21	2408	616.7	-123.00	22.8383	5111	112.1	243.10	384.8617
EL-21	2425	620.9	-126.90	18.9722	5128	108.7	244.30	386.0342
EL-21	2442	625.5	-133.80	12.1094	5144	105.3	242.40	384.1068
EL-21	2459	629.7	-137.50	8.4433	5161	102.0	243.80	385.4801
EL-21	2476	634.7	-142.20	3.7837	5178	98.6	243.80	385.4527
EL-21	2493	639.3	-143.10	2.9208	5194	95.5	243.70	385.3276
EL-21	2510	643.5	-145.30	0.7548	5211	92.1	242.30	383.9001
EL-21	2527	647.5	-148.90	-2.8129	5228	89.0	240.90	382.4751
EL-21	2544	651.4	-148.70	-2.5814	5245	85.9	242.60	384.1501
EL-21	2562	655.3	-150.60	-4.4499	5261	82.8	242.50	384.0250
EL-21	2579	659.7	-149.90	-3.7143	5278	79.7	241.20	382.7000
EL-21	2596	664.0	-146.60	-0.3796	5295	76.9	241.50	382.9774
EL-21	2613	667.2	-149.80	-3.5538	5311	74.1	240.60	382.0547
EL-21	2630	669.8	-149.70	-3.4328	5328	71.3	240.00	381.4321
EL-21	2647	671.6	-151.60	-5.3182	5345	68.4	240.20	381.6087

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EL-21	2664	672.7	-150.40	-4.1093	5362	65.9	240.30	381.6885
EL-21					5379	63.1	240.00	381.3658
EL-21					5395	60.5	239.40	380.7449
EL-21					5412	58.0	239.20	380.5247
EL-21					5430	55.4	239.10	380.4037
EL-21					5446	52.4	239.30	380.5794
EL-21					5463	49.3	238.60	379.8544
EL-21					5480	46.8	238.40	379.6342
EL-21					5497	44.3	238.80	380.0140
EL-21					5514	42.0	238.10	379.2954
EL-21					5530	40.0	237.60	378.7792