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# Sediment Magnetic and Paleomagnetic Data from Buck Lake, Oregon

by

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## INTRODUCTION

Sediment magnetic and paleomagnetic studies were conducted on a core from Buck Lake, Klamath County, Oregon, that was collected as part of an investigation into the Quaternary climate history of the western United States. This report documents the methods used to obtain paleomagnetic directions, magnetic properties, and ancillary data, and presents these data in tabular form. Adam (1993) and Adam and others (1994) describe the site, the drilling methods, and lithology of the lacustrine sediments. Rosenbaum and others (1994) present preliminary interpretations of the sediment magnetic data and show that variations in magnetic properties closely reflect changes in climate as interpreted from the pollen record.

## METHODS

**Sampling:** Paleomagnetic specimens, 3.2 $cm^3$ in volume, were taken in plastic boxes. Pedestals were cut in the core, boxes were placed over the pedestals, and the sediment in the boxes was then cut from the core and the boxes were sealed. Orientation was maintained with respect to the core axis but the specimens were not azimuthally oriented. Each paleomagnetic specimen was given a unique box number and the depth interval (with respect to the top of the core segment) covered by each box was recorded. Subsequently each specimen was assigned a second unique number, the sample number. These boxed samples were used for measurements of magnetic susceptibility, paleomagnetic directions and magnitudes, laboratory induced magnetizations, and hysteresis properties.

Core material removed from around each paleomagnetic specimen was placed in one or more numbered vials. The depth interval contained in each vial corresponds closely (but not exactly) to the interval sampled by a paleomagnetic specimen. These vials were later assigned sample numbers. Material in these vials was used to determine grain size, and elemental concentrations.

**Paleomagnetic Directions:** Directions and magnitudes of natural remanent magnetization and of magnetization after alternating-field demagnetization were determined with a cryogenic magnetometer (sensitivity better than $10^{-5}$ A/m), a low-speed (5 Hz) spinner magnetometer (sensitivity $\approx 10^{-3}$ A/m), or a high-speed (90 Hz) spinner magnetometer (sensitivity better than $10^{-5}$ A/m). Each specimen was subjected to progressive alternating-field demagnetization to at least 60 mT. Progressive demagnetization occurred in at least five steps (peak inductions of 10, 20, 30, 40 and 60 mT) and many specimens were demagnetized at additional levels. Characteristic directions of magnetization were calculated by fitting lines to demagnetization data (Kirschvink, 1980) which visually appeared to define coherent components when displayed on orthogonal vector diagrams.

**Magnetic Susceptibility:** A susceptometer (sensitivity better than $10^{-5}$ volume SI), operating at about 600 Hz or 6000 Hz, was used to measure low frequency ($MS_{LF}$) and high-frequency ($MS_{HF}$) magnetic susceptibilities. The frequency dependence of magnetic susceptibility (FD) was calculated as

$$FD = (MS_{LF}-MS_{HF})/MS_{LF}.$$

**Laboratory Induced Magnetizations:** A low speed-spinner magnetometer or a high-speed spinner magnetometer was used to measure anhysteretic remanent magnetization (ARM) and isothermal remanent magnetization (IRM). Following AF demagnetization, ARM was imparted to each specimen in a alternating induction of 100 mT and DC bias of 0.1 mT. Subsequently, an impulse magnetizer was used to impart IRMs. First specimens were given an IRM in an induction of 1.2 T ($IRM_{1.2}$), and then they were given an oppositely directed IRM in an induction of 0.3 T ($IRM_{-0.3}$). The "hard" isothermal remanent magnetization (HIRM) and the S parameter were calculated as

$$HIRM = (IRM_{1.2} + IRM_{-0.3})/2,$$

and $S = -IRM_{-0.3}/IRM_{1.2}$

as suggested by King and Channel (1991).

**Hysteresis Properties:** Hysteresis loops were generated for a subset of the paleomagnetic specimens using a vibrating sample magnetometer at the Institute for Rock Magnetism at the University of Minnesota. The maximum induction used was about 1.4 T. For each loop, high field (or paramagnetic) magnetic susceptibility was determined by fitting lines to a portion of the data for inductions above about 0.9 T. The induced magnetization due to this paramagnetic susceptibility was subtracted from the observed magnetizations prior to calculation of hysteresis properties.

**Curie Temperatures:** Curie temperatures were determined for magnetic minerals separated from bulk sediment that had been placed in bags during sampling. The separations were done by dispersing the sediment in water (with a small amount of surfactant) and pumping the resulting slurry past a magnet using a technique similar to that described by Petersen and others (1986). Magnetization, in an induction of 0.3 T or greater, was measured as a function of temperature using a sensitive balance similar to that described by Larson and others (1975).

**Grain Size Analyses:** Bulk sediment grain sizes (between 0.2 and 50 μm) were obtained for sediment in 21 vials using an automated particle-size analyzer. These results are summarized here as the percentage of sediment greater than 3.2 μm in size.

**Elemental Abundances:** Sediment from vials was prepared for energy-dispersive X-ray fluorescence analysis by thorough drying and subsequent pulverization in a shatter box. Analyses were made at the Department of Geological Sciences, University of Colorado. Analyses were made for Ba, Cr, Cu, Fe, La, Mn, Ni, Rb, Ti, V, Zn and Zr. In addition, concentrations of total carbon and carbonate carbon were determined by coulometry (Engleman and others, 1985).

Organic carbon content was determined by taking the difference between total carbon and carbonate carbon.

**Acknowledgments:**

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## TABLE 1. Sample Numbers and Depths

**Sample No:** A unique sample number assigned regardless of sample type.

**Sample Box No:** A unique number assigned to paleomagnetic samples that are placed in plastic boxes.

**Vial No:** A unique number assigned to samples removed from the core and placed in vials.

**Slug:** Core segment identification. Core runs were numbered consecutively. Subdivisions of a core run were labeled A (upper) and B (lower).

**Depth in hole:** Depth computed by adding midpoint of **depth interval** and **depth to top of slug.**

**Grain Size:** For the fraction of a sample less than 50 microns in size, the percentage of a sample larger than 3.2 microns.

**Table for ancillary data:** Column identifies existence of hysteresis data (Table 4), elemental data obtained by X-ray fluorescence (Table 5), and carbon analyses (Table 6).

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 3537 | 500 | | 9/A | 5.26 | 4.0 - 5.5 | 5.31 | | 4 | |
| 3141 | | 4112 | 9/A | 5.26 | 3.0 - 4.0 | 5.30 | | 5 | |
| 3540 | 501 | | 9/A | 5.26 | 14.0 - 15.5 | 5.41 | | | |
| 3139 | | 4114 | 9/A | 5.26 | 14.0 - 15.6 | 5.41 | | 5 | |
| 3145 | 502 | | 9/A | 5.26 | 19.0 - 21.0 | 5.46 | | | |
| 3148 | 503 | | 9/A | 5.26 | 24.0 - 26.0 | 5.51 | | | |
| 3547 | | 4118 | 9/A | 5.26 | 24.0 - 26.0 | 5.51 | | 5, 6 | |
| 3151 | 522 | | 9/A | 5.26 | 29.0 - 31.0 | 5.56 | | | |
| 3165 | 523 | | 9/A | 5.26 | 34.0 - 36.0 | 5.61 | | | |
| 3177 | 524 | | 9/A | 5.26 | 39.0 - 41.0 | 5.66 | | 4 | |
| 3176 | | 4137 | 9/A | 5.26 | 39.0 - 41.0 | 5.66 | | 5 | |
| 3185 | 512 | | 9/A | 5.26 | 44.0 - 46.0 | 5.71 | | | |
| 3588 | 511 | | 9/A | 5.26 | 48.5 - 50.5 | 5.76 | | | |
| 3594 | 510 | | 9/A | 5.26 | 54.0 - 56.0 | 5.81 | | | |
| 3193 | | 4152 | 9/A | 5.26 | 54.0 - 56.0 | 5.81 | | 5, 6 | |
| 3200 | 509 | | 9/A | 5.26 | 59.0 - 61.0 | 5.86 | | | |
| 3606 | 508 | | 9/A | 5.26 | 64.0 - 66.0 | 5.91 | | | |
| 3212 | 507 | | 9/A | 5.26 | 69.0 - 71.0 | 5.96 | | | |
| 3611 | | 4162 | 9/A | 5.26 | 69.0 - 71.0 | 5.96 | | 5 | |
| 3202 | 506 | | 9/A | 5.26 | 74.5 - 76.0 | 6.01 | | 4 | |
| 3196 | 505 | | 9/A | 5.26 | 79.5 - 81.0 | 6.06 | | | |
| 3598 | | 4151 | 9/A | 5.26 | 79.0 - 81.5 | 6.06 | 13 | | |
| 3175 | 504 | | 9/A | 5.26 | 84.0 - 86.0 | 6.11 | | | |
| 3574 | | 4141 | 9/A | 5.26 | 84.0 - 86.0 | 6.11 | | 6 | |
| 3556 | 513 | | 9/A | 5.26 | 89.0 - 91.0 | 6.16 | | | |
| 3563 | 514 | | 9/A | 5.26 | 94.0 - 96.0 | 6.21 | | | |
| 3573 | 515 | | 9/A | 5.26 | 99.0 - 100.0 | 6.26 | | | |
| 3171 | | 4135 | 9/A | 5.26 | 99.0 - 100.0 | 6.26 | | 5 | |
| 3208 | 516 | | 9/A | 5.26 | 104.5 - 106.0 | 6.31 | | | |
| 3215 | 517 | | 9/A | 5.26 | 109.5 - 111.0 | 6.36 | | | |
| 3190 | 518 | | 9/A | 5.26 | 114.5 - 116.0 | 6.41 | | 4 | |
| 3191 | | 4146 | 9/A | 5.26 | 114.5 - 116.0 | 6.41 | | 5, 6 | |
| 3180 | 519 | | 9/A | 5.26 | 120.0 - 121.5 | 6.47 | | | |
| 3568 | 520 | | 9/A | 5.26 | 124.5 - 126.0 | 6.51 | | | |
| 3557 | 521 | | 9/A | 5.26 | 130.0 - 131.5 | 6.57 | | | |
| 3558 | | 4123 | 9/A | 5.26 | 130.0 - 131.5 | 6.57 | | 5 | |
| 3218 | 525 | | 10/A | 6.66 | 4.0 - 5.5 | 6.71 | | | |
| 3617 | | 4166 | 10/A | 6.66 | 4.0 - 5.5 | 6.71 | | 5, 6 | |
| 3223 | 526 | | 10/A | 6.66 | 10.0 - 11.5 | 6.77 | | 4 | |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 3229 | 527 | | 10/A | 6.66 | 14.5 - 16.5 | 6.82 | | | |
| 3230 | | 4174 | 10/A | 6.66 | 14.5 - 16.5 | 6.82 | | 5 | |
| 3235 | 528 | | 10/A | 6.66 | 19.5 - 21.5 | 6.87 | | | |
| 3636 | | 4178 | 10/A | 6.66 | 19.5 - 21.5 | 6.87 | | 5, 6 | |
| 3241 | 529 | | 10/A | 6.66 | 24.5 - 26.5 | 6.92 | | | |
| 3242 | | 4182 | 10/A | 6.66 | 24.5 - 26.5 | 6.92 | | 5, 6 | |
| 3247 | 530 | | 10/A | 6.66 | 29.0 - 31.0 | 6.96 | | | |
| 3253 | 531 | | 10/A | 6.66 | 38.0 - 40.0 | 7.05 | | | |
| 3654 | | 4138 | 10/A | 6.66 | 38.0 - 40.0 | 7.05 | | 5, 6 | |
| 3656 | 532 | | 10/A | 6.66 | 44.0 - 46.0 | 7.11 | | | |
| 3258 | | 4192 | 10/A | 6.66 | 44.0 - 46.0 | 7.11 | | 5 | |
| 3662 | 533 | | 10/A | 6.66 | 53.0 - 55.0 | 7.20 | | | |
| 3668 | 534 | | 10/A | 6.66 | 58.5 - 60.5 | 7.26 | | | |
| 3669 | | 4200 | 10/A | 6.66 | 58.5 - 60.5 | 7.26 | | 5, 6 | |
| 3674 | 535 | | 10/A | 6.66 | 64.5 - 66.0 | 7.31 | | | |
| 3281 | 536 | | 10/A | 6.66 | 69.0 - 70.5 | 7.36 | | | |
| 3686 | 537 | | 10/A | 6.66 | 74.5 - 76.0 | 7.41 | | 4 | |
| 3288 | | 4212 | 10/A | 6.66 | 74.5 - 76.0 | 7.41 | | 5 | |
| 3620 | 538 | | 10/A | 6.66 | 79.5 - 81.0 | 7.46 | | | |
| 3226 | 539 | | 10/A | 6.66 | 85.0 - 86.5 | 7.52 | | | Tc=560 deg. C from |
| 3227 | | 4172 | 10/A | 6.66 | 85.0 - 86.5 | 7.52 | 15 | | 7.50-7.54 m |
| 3632 | 540 | | 10/A | 6.66 | 90.0 - 91.5 | 7.57 | | | |
| 3633 | | 4176 | 10/A | 6.66 | 90.0 - 91.5 | 7.57 | | 5 | |
| 3238 | 541 | | 10/A | 6.66 | 95.0 - 96.5 | 7.62 | | | |
| 3244 | 542 | | 10/A | 6.66 | 100.5 - 102.0 | 7.67 | | | |
| 3645 | | 4184 | 10/A | 6.66 | 100.5 - 102.0 | 7.67 | | 5, 6 | |
| 3250 | 543 | | 10/A | 6.66 | 104.5 - 106.0 | 7.71 | | | |
| 3659 | 544 | | 10/A | 6.66 | 111.0 - 112.5 | 7.78 | | | Disturbed |
| 3261 | | 4194 | 10/A | 6.66 | 111.0 - 112.5 | 7.78 | | 5 | |
| 3266 | 545 | | 10/A | 6.66 | 116.5 - 118.0 | 7.83 | | | Disturbed |
| 3671 | 546 | | 10/A | 6.66 | 121.0 - 122.5 | 7.88 | | | Disturbed |
| 3677 | 547 | | 10/A | 6.66 | 125.5 - 127.0 | 7.92 | | 4 | Disturbed |
| 3678 | | 4206 | 10/A | 6.66 | 125.5 - 127.0 | 7.92 | | 5 | |
| 3284 | 548 | | 10/A | 6.66 | 130.0 - 131.5 | 7.97 | | | Disturbed |
| 3290 | 549 | | 10/A | 6.66 | 134.5 - 136.0 | 8.01 | | | Disturbed |
| 3690 | | 4214 | 10/A | 6.66 | 134.5 - 136.0 | 8.01 | | 5, 6 | |
| 3293 | 550 | | 10/A | 6.66 | 140.0 - 141.5 | 8.07 | | | Disturbed |
| 3296 | 551 | | 10/A | 6.66 | 146.0 - 147.5 | 8.13 | | | Disturbed |
| 3697 | | 4219 | 10/A | 6.66 | 146.0 - 147.5 | 8.13 | | 5 | |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 3715 | 800 | | 10/B | 8.16 | 3.0 - 5.0 | 8.20 | | | |
| 3718 | 802 | | 10/B | 8.16 | 8.0 - 10.0 | 8.25 | | | |
| 3723 | 804 | | 10/B | 8.16 | 12.0 - 14.0 | 8.29 | | | |
| 3722 | | 4721 | 10/B | 8.16 | 11.5 - 15.0 | 8.29 | | 5 | |
| 3727 | 806 | | 10/B | 8.16 | 17.0 - 19.0 | 8.34 | | | |
| 3731 | 808 | | 10/B | 8.16 | 22.0 - 24.0 | 8.39 | | | |
| 3735 | 810 | | 10/B | 8.16 | 27.5 - 29.5 | 8.45 | | | |
| 3734 | | 4727 | 10/B | 8.16 | 26.0 - 30.0 | 8.44 | | 5, 6 | |
| 3739 | 812 | | 10/B | 8.16 | 32.0 - 34.0 | 8.49 | | 4 | |
| 3743 | 814 | | 10/B | 8.16 | 37.5 - 39.0 | 8.54 | | | |
| 3747 | 816 | | 10/B | 8.16 | 42.5 - 44.0 | 8.59 | | | |
| 3746 | | 4733 | 10/B | 8.16 | 41.0 - 44.5 | 8.59 | | 5 | |
| 3751 | 818 | | 10/B | 8.16 | 47.0 - 49.0 | 8.64 | | | |
| 3755 | 820 | | 10/B | 8.16 | 52.5 - 54.0 | 8.69 | | | |
| 3757 | 821 | | 10/B | 8.16 | 57.5 - 59.0 | 8.74 | | | |
| 3737 | 811 | | 10/B | 8.16 | 63.0 - 64.4 | 8.80 | | | |
| 3741 | 813 | | 10/B | 8.16 | 69.5 - 71.0 | 8.86 | | | |
| 3745 | 815 | | 10/B | 8.16 | 74.0 - 75.5 | 8.91 | | | |
| 3744 | | 4732 | 10/B | 8.16 | 73.0 - 76.0 | 8.91 | 3 | | |
| 3749 | 817 | | 10/B | 8.16 | 79.5 - 81.0 | 8.96 | | | |
| 3753 | 819 | | 10/B | 8.16 | 84.5 - 86.0 | 9.01 | | | Tc=558 deg. C from |
| 3733 | 809 | | 10/B | 8.16 | 92.5 - 94.0 | 9.09 | | | 8.99-9.03 m |
| 3728 | 807 | | 10/B | 8.16 | 99.0 - 101.5 | 9.16 | | | |
| 3725 | 805 | | 10/B | 8.16 | 104.0 - 105.5 | 9.21 | | 4 | |
| 3721 | 803 | | 10/B | 8.16 | 110.5 - 112.0 | 9.27 | | | |
| 3720 | | 4720 | 10/B | 8.16 | 109.5 - 113.5 | 9.28 | | 5, 6 | |
| 3717 | 801 | | 10/B | 8.16 | 120.0 - 121.5 | 9.37 | | | |
| 3759 | 822 | | 11/A | 9.41 | 5.0 - 7.0 | 9.47 | | | |
| 3763 | 824 | | 11/A | 9.41 | 10.0 - 11.5 | 9.52 | | | Tephra (Loleta) |
| 3737 | 826 | | 11/A | 9.41 | 15.0 - 17.0 | 9.57 | | | |
| 3766 | | 4746 | 11/A | 9.41 | 14.5 - 17.5 | 9.57 | | 5 | |
| 3769 | 827 | | 11/A | 9.41 | 24.5 - 26.0 | 9.66 | | | |
| 3773 | 829 | | 11/A | 9.41 | 29.0 - 31.0 | 9.71 | | 4 | Tc=580 deg. C at 971 m |
| 3775 | 830 | | 11/A | 9.41 | 34.0 - 36.0 | 9.76 | | | |
| 3774 | | 4747 | 11/A | 9.41 | 33.5 - 36.5 | 9.76 | | 5, 6 | |
| 3779 | 832 | | 11/A | 9.41 | 39.0 - 41.0 | 9.81 | | | |
| 3778 | | 4749 | 11/A | 9.41 | 38.5 - 41.5 | 9.81 | 19 | | |
| 3783 | 834 | | 11/A | 9.41 | 44.0 - 44.5 | 9.85 | | 4 | |
| 3787 | 836 | | 11/A | 9.41 | 49.5 - 51.0 | 9.91 | | | |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 3786 | | 4753 | 11/A | 9.41 | 48.5 - 52.0 | 9.91 | | 5 | |
| 3791 | 838 | | 11/A | 9.41 | 54.5 - 56.0 | 9.96 | | | |
| 3790 | | 4755 | 11/A | 9.41 | 53.0 - 57.0 | 9.96 | | 5 | |
| 3795 | 840 | | 11/A | 9.41 | 62.5 - 64.0 | 10.04 | | 4 | |
| 3794 | | 4757 | 11/A | 9.41 | 61.0 - 64.5 | 10.04 | | 5, 6 | |
| 3799 | 842 | | 11/A | 9.41 | 68.0 - 69.5 | 10.10 | | | |
| 3798 | | 4759 | 11/A | 9.41 | 67.0 - 71.0 | 10.10 | | 5 | |
| 3761 | 823 | | 11/A | 9.41 | 74.5 - 76.0 | 10.16 | | | |
| 3760 | | 4740 | 11/A | 9.41 | 73.5 - 76.5 | 10.16 | | 5, 6 | |
| 3765 | 825 | | 11/A | 9.41 | 79.5 - 81.0 | 10.21 | | 4 | |
| 3764 | | 4742 | 11/A | 9.41 | 79.0 - 82.0 | 10.22 | 26 | | |
| 3770 | 828 | | 11/A | 9.41 | 85.0 - 86.5 | 10.27 | | | Tc=555 deg. C from |
| 3771 | | 4745 | 11/A | 9.41 | 84.0 - 87.0 | 10.27 | | 5 | 1021-1031 m |
| 3777 | 831 | | 11/A | 9.41 | 90.0 - 91.5 | 10.32 | | | |
| 3776 | | 4748 | 11/A | 9.41 | 89.0 - 92.0 | 10.32 | | 5, 6 | |
| 3781 | 833 | | 11/A | 9.41 | 94.5 - 96.0 | 10.36 | | | |
| 3780 | | 4750 | 11/A | 9.41 | 94.0 - 96.5 | 10.36 | | 5, 6 | |
| 3785 | 835 | | 11/A | 9.41 | 99.5 - 101.0 | 10.41 | | | |
| 3789 | 837 | | 11/A | 9.41 | 104.0 - 105.5 | 10.46 | | 4 | |
| 3788 | | 4754 | 11/A | 9.41 | 103.5 - 106.0 | 10.46 | | 5 | |
| 3793 | 839 | | 11/A | 9.41 | 109.5 - 111.0 | 10.51 | | | |
| 3797 | 841 | | 11/A | 9.41 | 115.0 - 116.5 | 10.57 | | | |
| 3796 | | 4758 | 11/A | 9.41 | 114.0 - 117.0 | 10.57 | | 5, 6 | |
| 3801 | 843 | | 11/A | 9.41 | 119.5 - 121.0 | 10.61 | | 4 | |
| 3800 | | 4760 | 11/A | 9.41 | 118.5 - 121.5 | 10.61 | 43 | | |
| 3803 | 844 | | 11/A | 9.41 | 124.5 - 126.0 | 10.66 | | | |
| 3805 | 845 | | 11/A | 9.41 | 129.5 - 131.5 | 10.72 | | | |
| 3804 | | 4762 | 11/A | 9.41 | 128.0 - 132.0 | 10.71 | | 5, 6 | |
| 3807 | 846 | | 11/A | 9.41 | 134.5 - 136.0 | 10.76 | | 4 | |
| 3806 | | 4763 | 11/A | 9.41 | 133.5 - 137.0 | 10.76 | | 5, 6 | |
| 3809 | 847 | | 11/B | 10.76 | 2.5 - 4.0 | 10.79 | | | |
| 3808 | | 4764 | 11/B | 10.76 | 1.5 - 5.5 | 10.80 | | 5, 6 | |
| 3813 | 849 | | 11/B | 10.76 | 8.0 - 9.5 | 10.85 | | 4 | |
| 3812 | | 4766 | 11/B | 10.76 | 7.0 - 11.0 | 10.85 | | 5, 6 | |
| 3817 | 851 | | 11/B | 10.76 | 13.5 - 15.5 | 10.91 | | | |
| 3816 | | 4768 | 11/B | 10.76 | 12.5 - 16.5 | 10.91 | 40 | | |
| 3821 | 853 | | 11/B | 10.76 | 18.5 - 20.0 | 10.95 | | | Tc=570 deg. C at 10.96 m |
| 3825 | 855 | | 11/B | 10.76 | 22.5 - 24.5 | 11.00 | | | |
| 3829 | 857 | | 11/B | 10.76 | 28.0 - 30.0 | 11.05 | | | |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 3828 | | 4774 | 11/B | 10.76 | 28.0 - 30.0 | 11.05 | | 5, 6 | |
| 3833 | 859 | | 11/B | 10.76 | 33.0 - 35.0 | 11.10 | | | |
| 3837 | 861 | | 11/B | 10.76 | 36.5 - 38.5 | 11.14 | | 4 | |
| 3836 | | 4778 | 11/B | 10.76 | 36.0 - 39.0 | 11.14 | | 5, 6 | |
| 3811 | 848 | | 11/B | 10.76 | 44.5 - 46.0 | 11.21 | | | |
| 3815 | 850 | | 11/B | 10.76 | 49.5 - 51.0 | 11.26 | | | |
| 3814 | | 4767 | 11/B | 10.76 | 49.0 - 52.0 | 11.27 | | 5, 6 | |
| 3819 | 852 | | 11/B | 10.76 | 54.5 - 56.0 | 11.31 | | 4 | |
| 3818 | | 4769 | 11/B | 10.76 | 54.0 - 56.5 | 11.31 | 39 | | |
| 3823 | 854 | | 11/B | 10.76 | 59.5 - 61.0 | 11.36 | | | |
| 3822 | | 4771 | 11/B | 10.76 | 59.0 - 62.0 | 11.37 | | 5, 6 | |
| 3827 | 856 | | 11/B | 10.76 | 64.5 - 66.0 | 11.41 | | | |
| 3831 | 858 | | 11/B | 10.76 | 72.0 - 73.5 | 11.49 | | 4 | |
| 3830 | | 4775 | 11/B | 10.76 | 71.0 - 74.0 | 11.49 | 25 | | |
| 3835 | 860 | | 11/B | 10.76 | 77.0 - 78.5 | 11.54 | | 4 | |
| 3834 | | 4777 | 11/B | 10.76 | 76.5 - 79.0 | 11.54 | | 5, 6 | |
| 3839 | 862 | | 11/B | 10.76 | 82.0 - 83.5 | 11.59 | | | |
| 3841 | 863 | | 12/A | 11.57 | 1.5 - 3.0 | 11.59 | | 4 | |
| 3840 | | 4780 | 12/A | 11.57 | 0 - 3.5 | 11.59 | 35 | | |
| 3845 | 865 | | 12/A | 11.57 | 6.0 - 8.0 | 11.64 | | | |
| 3844 | | 4782 | 12/A | 11.57 | 5 - 8.5 | 11.64 | | 5, 6 | |
| 3849 | 867 | | 12/A | 11.57 | 11.5 - 13.0 | 11.69 | | | |
| 3853 | 869 | | 12/A | 11.57 | 16.5 - 18.0 | 11.74 | | 4 | |
| 3852 | | 4786 | 12/A | 11.57 | 15.5 - 18.5 | 11.74 | | 5 | |
| 3857 | 871 | | 12/A | 11.57 | 21.5 - 23.0 | 11.79 | | | |
| 3861 | 873 | | 12/A | 11.57 | 26.0 - 27.5 | 11.84 | | | Tc=573 deg. C from |
| 3860 | | 4790 | 12/A | 11.57 | 25.0 - 28.5 | 11.84 | | 5, 6 | 11.82-11.86 m |
| 3865 | 875 | | 12/A | 11.57 | 31.5 - 33.0 | 11.89 | | | |
| 3869 | 877 | | 12/A | 11.57 | 36.0 - 37.5 | 11.94 | | 4 | |
| 3868 | | 4794 | 12/A | 11.57 | 35.0 - 38.5 | 11.94 | | 5 | |
| 3873 | 879 | | 12/A | 11.57 | 41.5 - 43.0 | 11.99 | | | |
| 3877 | 881 | | 12/A | 11.57 | 45.5 - 47.5 | 12.04 | | 4 | |
| 3876 | | 4798 | 12/A | 11.57 | 45.0 - 48.5 | 12.04 | | 5, 6 | |
| 3881 | 883 | | 12/A | 11.57 | 50.0 - 51.5 | 12.08 | | | |
| 3885 | 885 | | 12/A | 11.57 | 55.5 - 57.0 | 12.13 | | | |
| 3889 | 887 | | 12/A | 11.57 | 61.0 - 62.5 | 12.19 | | 4 | |
| 3888 | | 4804 | 12/A | 11.57 | 60.0 - 63.0 | 12.19 | | 5, 6 | |
| 3843 | 864 | | 12/A | 11.57 | 65.5 - 67.0 | 12.23 | | | Black tephra, Tc=488 |
| 3847 | 866 | | 12/A | 11.57 | 72.0 - 73.5 | 12.30 | | | deg. C at 12.23 m |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 3851 | 868 | | 12/A | 11.57 | 77.5 - 79.0 | 12.35 | | 4 | |
| 3850 | | 4785 | 12/A | 11.57 | 77.0 - 79.5 | 12.35 | | 5 | |
| 3855 | 870 | | 12/A | 11.57 | 82.0 - 83.5 | 12.40 | | | |
| 3859 | 872 | | 12/A | 11.57 | 87.5 - 89.0 | 12.45 | | | Tc=570 deg. C from |
| 3858 | | 4789 | 12/A | 11.57 | 87.0 - 89.5 | 12.45 | | 5, 6 | 12.43-12.46 m |
| 3863 | 874 | | 12/A | 11.57 | 92.0 - 93.5 | 12.50 | | | Tephra |
| 3867 | 876 | | 12/A | 11.57 | 98.0 - 99.5 | 12.56 | | | |
| 3871 | 878 | | 12/A | 11.57 | 103.0 - 104.5 | 12.61 | | 4 | |
| 3875 | 880 | | 12/A | 11.57 | 108.5 - 110.0 | 12.66 | | | |
| 3874 | | 4797 | 12/A | 11.57 | 108.0 - 110.0 | 12.66 | | 5 | |
| 3879 | 882 | | 12/A | 11.57 | 115.0 - 116.5 | 12.73 | | 4 | |
| 3878 | | 4799 | 12/A | 11.57 | 114.5 - 117.0 | 12.73 | | 5, 6 | |
| 3883 | 884 | | 12/A | 11.57 | 120.5 - 122.0 | 12.78 | | 4 | |
| 3882 | | 4801 | 12/A | 11.57 | 120.0 - 122.5 | 12.78 | | 5 | |
| 3887 | 886 | | 12/A | 11.57 | 126.0 - 127.5 | 12.84 | | | |
| 3891 | 888 | | 12/A | 11.57 | 131.0 - 132.5 | 12.89 | | 4 | |
| 3890 | | 4805 | 12/A | 11.57 | 130.5 - 133.5 | 12.89 | | 5, 6 | |
| 3893 | 889 | | 12/A | 11.57 | 136.5 - 138.0 | 12.94 | | | |
| 3895 | 890 | | 12/B | 12.97 | 4.0 - 6.0 | 13.02 | | | |
| 3894 | | 4807 | 12/B | 12.97 | 3.5 - 6.5 | 13.02 | | 5 | |
| 3901 | 893 | | 12/B | 12.97 | 9.5 - 11.0 | 13.07 | | | |
| 3900 | | 4810 | 12/B | 12.97 | 8.5 - 11.5 | 13.07 | | 5, 6 | |
| 3905 | 895 | | 12/B | 12.97 | 14.0 - 15.5 | 13.12 | | | |
| 3909 | 897 | | 12/B | 12.97 | 19.5 - 21.5 | 13.18 | | | |
| 3913 | 899 | | 12/B | 12.97 | 25.0 - 26.5 | 13.23 | | | |
| 3912 | | 4816 | 12/B | 12.97 | 24.0 - 27.5 | 13.23 | | 5 | |
| 3917 | 901 | | 12/B | 12.97 | 29.5 - 31.0 | 13.27 | | | |
| 3921 | 903 | | 12/B | 12.97 | 34.5 - 36.0 | 13.32 | | 4 | Tc=566 deg. C from |
| 3925 | 905 | | 12/B | 12.97 | 39.5 - 41.0 | 13.37 | | | 13.31-13.33m |
| 3924 | | 4822 | 12/B | 12.97 | 39.0 - 42.0 | 13.38 | | 5, 6 | |
| 3929 | 907 | | 12/B | 12.97 | 44.5 - 46.0 | 13.42 | | | |
| 3933 | 909 | | 12/B | 12.97 | 57.0 - 60.0 | 13.56 | | | Disturbed, Tephra (?) |
| 3897 | 891 | | 12/B | 12.97 | 74.5 - 76.0 | 13.72 | | | |
| 3896 | | 4808 | 12/B | 12.97 | 73.0 - 76.0 | 13.72 | | 5 | |
| 3899 | 892 | | 12/B | 12.97 | 79.5 - 81.0 | 13.77 | | | |
| 3903 | 894 | | 12/B | 12.97 | 84.5 - 86.0 | 13.82 | | | |
| 3907 | 896 | | 12/B | 12.97 | 89.0 - 90.5 | 13.87 | | 4 | |
| 3906 | | 4813 | 12/B | 12.97 | 89.0 - 91.5 | 13.87 | | 5, 6 | |
| 3911 | 898 | | 12/B | 12.97 | 94.5 - 96.0 | 13.92 | | 4 | |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 3915 | 900 | | 12/B | 12.97 | 100.0 - 101.5 | 13.98 | | 4 | |
| 3914 | | 4817 | 12/B | 12.97 | 99.5 - 102.5 | 13.98 | | 5, 6 | |
| 3919 | 902 | | 12/B | 12.97 | 105.0 - 106.5 | 14.03 | | | |
| 3923 | 904 | | 12/B | 12.97 | 109.5 - 111.0 | 14.07 | | 4 | |
| 3922 | | 4821 | 12/B | 12.97 | 109.0 - 111.5 | 14.07 | | 5, 6 | |
| 3927 | 906 | | 12/B | 12.97 | 114.5 - 116.0 | 14.12 | | | |
| 3926 | | 4823 | 12/B | 12.97 | 114.0 - 116.5 | 14.12 | | 5 | |
| 3931 | 908 | | 12/B | 12.97 | 119.5 - 121.0 | 14.17 | | | |
| 3935 | 910 | | 12/B | 12.97 | 125.0 - 126.5 | 14.23 | | 4 | |
| 3934 | | 4827 | 12/B | 12.97 | 124.9 - 127.0 | 14.23 | | 5, 6 | |
| 3937 | 911 | | 12/B | 12.97 | 130.0 - 131.5 | 14.28 | | | |
| 3939 | 912 | | 12/B | 12.97 | 135.5 - 137.0 | 14.33 | | 4 | |
| 3938 | | 4829 | 12/B | 12.97 | 134.0 - 137.0 | 14.33 | | 5 | |
| 3941 | 913 | | 13/A | 14.37 | 4.5 - 6.0 | 14.42 | | | |
| 3940 | | 4830 | 13/A | 14.37 | 0.0 - 7.5 | 14.41 | | 5, 6 | |
| 3945 | 915 | | 13/A | 14.37 | 9.0 - 10.5 | 14.47 | | | |
| 3944 | | 4832 | 13/A | 14.37 | 7.5 - 11.5 | 14.47 | | 5 | |
| 3949 | 917 | | 13/A | 14.37 | 14.0 - 15.5 | 14.52 | | 4 | |
| 3953 | 919 | | 13/A | 14.37 | 19.0 - 20.5 | 14.57 | | | Tc=548 deg. C at 14.57 m |
| 3952 | | 4836 | 13/A | 14.37 | 16.5 - 21.5 | 14.56 | | 5, 6 | |
| 3957 | 921 | | 13/A | 14.37 | 23.0 - 24.5 | 14.61 | | 4 | |
| 3956 | | 4838 | 13/A | 14.37 | 21.5 - 25.5 | 14.61 | | 5, 6 | |
| 3961 | 923 | | 13/A | 14.37 | 31.0 - 32.5 | 14.69 | | | |
| 3965 | 925 | | 13/A | 14.37 | 35.0 - 36.5 | 14.73 | | | |
| 3964 | | 4842 | 13/A | 14.37 | 33.5 - 37.5 | 14.73 | | 5, 6 | |
| 3969 | 927 | | 13/A | 14.37 | 39.5 - 41.0 | 14.77 | | | |
| 3973 | 929 | | 13/A | 14.37 | 44.0 - 46.0 | 14.82 | | | |
| 3972 | | 4846 | 13/A | 14.37 | 42.0 - 47.0 | 14.82 | | 5, 6 | |
| 3977 | 931 | | 13/A | 14.37 | 51.5 - 53.0 | 14.89 | | | |
| 3943 | 914 | | 13/A | 14.37 | 56.5 - 58.0 | 14.94 | | | Disturbed, Tephra |
| 3947 | 916 | | 13/A | 14.37 | 62.0 - 63.5 | 15.00 | | | |
| 3951 | 918 | | 13/A | 14.37 | 67.0 - 68.5 | 15.05 | | | |
| 3950 | | 4835 | 13/A | 14.37 | 66.5 - 69.0 | 15.05 | | 5, 6 | |
| 3955 | 920 | | 13/A | 14.37 | 72.5 - 74.0 | 15.10 | | | |
| 3954 | | 4837 | 13/A | 14.37 | 72.0 - 75.0 | 15.11 | | 5 | |
| 3959 | 922 | | 13/A | 14.37 | 78.0 - 79.5 | 15.16 | | | |
| 3963 | 924 | | 13/A | 14.37 | 83.5 - 85.0 | 15.21 | | | |
| 3962 | | 4841 | 13/A | 14.37 | 83.5 - 85.0 | 15.21 | 15 | | |
| 3967 | 926 | | 13/A | 14.37 | 89.0 - 90.5 | 15.27 | | | |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 3966 | | 4843 | 13/A | 14.37 | 88.5 - 91.0 | 15.27 | | 5 | |
| 3971 | 928 | | 13/A | 14.37 | 94.0 - 95.5 | 15.32 | | | |
| 3975 | 930 | | 13/A | 14.37 | 99.5 - 101.0 | 15.37 | | | |
| 3974 | | 4847 | 13/A | 14.37 | 99.0 - 102.0 | 15.38 | | 5 | |
| 3980 | 932 | | 13/A | 14.37 | 105.5 - 107.0 | 15.43 | | | Tephra |
| 3984 | 933 | | 14/A | 15.5 | 11.0 - 13.0 | 15.62 | | | Tephra |
| 3990 | 935 | | 14/A | 15.5 | 19.5 - 21.0 | 15.70 | | | |
| 3989 | | 4858 | 14/A | 15.5 | 17.5 - 22.0 | 15.70 | | 5 | |
| 3992 | 936 | | 14/A | 15.5 | 23.5 - 25.5 | 15.75 | | | |
| 3994 | 937 | | 14/A | 15.5 | 28.5 - 30.0 | 15.79 | | | |
| 3993 | | 4860 | 14/A | 15.5 | 28.0 - 31.5 | 15.80 | | 5 | |
| 3996 | 938 | | 14/A | 15.5 | 33.5 - 35.0 | 15.84 | | | |
| 3998 | 939 | | 14/A | 15.5 | 39.0 - 41.0 | 15.90 | | | |
| 3997 | | 4862 | 14/A | 15.5 | 38.0 - 41.5 | 15.90 | | 5 | |
| 4000 | 940 | | 14/A | 15.5 | 44.0 - 46.0 | 15.95 | | | |
| 4004 | 942 | | 14/A | 15.5 | 49.5 - 51.0 | 16.00 | | | |
| 4003 | | 4864 | 14/A | 15.5 | 48.5 - 52.0 | 16.00 | | 5, 6 | |
| 4010 | 946 | | 14/A | 15.5 | 56.0 - 57.5 | 16.07 | | | |
| 4009 | | 4866 | 14/A | 15.5 | 55.0 - 59.0 | 16.07 | 18 | | |
| 3982 | 934 | | 14/A | 15.5 | 65.5 - 67.0 | 16.16 | | | |
| 4002 | 941 | | 14/A | 15.5 | 71.0 - 72.5 | 16.22 | | | |
| 4001 | | 4853 | 14/A | 15.5 | 70.5 - 73.5 | 16.22 | | 5 | |
| 4006 | 943 | | 14/A | 15.5 | 76.5 - 78.0 | 16.27 | | | |
| 4008 | 945 | | 14/A | 15.5 | 82.0 - 83.5 | 16.33 | | | Tc=373 deg. C from |
| 4007 | | 4867 | 14/A | 15.5 | 81.0 - 84.0 | 16.33 | | 5 | 16.31-16,34 m |
| 4012 | 947 | | 14/A | 15.5 | 88.5 - 90.0 | 16.39 | | | |
| 4014 | 948 | | 14/A | 15.5 | 99.0 - 100.5 | 16.50 | | | |
| 4016 | 949 | | 14/A | 15.5 | 108.5 - 110.0 | 16.59 | | | |
| 4018 | 950 | | 14/A | 15.5 | 126.5 - 128.0 | 16.77 | | | |
| 4017 | | 4871 | 14/A | 15.5 | 126.0 - 128.5 | 16.77 | 15 | | |
| 4020 | 951 | | 14/A | 15.5 | 136.0 - 137.5 | 16.87 | | | |
| 4019 | | 4872 | 14/A | 15.5 | 135.5 - 138.0 | 16.87 | | 5 | |
| 4022 | 952 | | 14/B | 17 | 3.0 - 5.0 | 17.04 | | | |
| 4021 | | 4873 | 14/B | 17 | 2.5 - 6.0 | 17.04 | | 5 | |
| 4026 | 954 | | 14/B | 17 | 8.0 - 8.5 | 17.08 | | | |
| 4030 | 956 | | 14/B | 17 | 13.0 - 14.5 | 17.14 | | | |
| 4029 | | 4877 | 14/B | 17 | 12.0 - 15.5 | 17.14 | | 5, 6 | |
| 4034 | 958 | | 14/B | 17 | 19.0 - 20.5 | 17.20 | | | |
| 4038 | 960 | | 14/B | 17 | 24.5 - 26.0 | 17.25 | | | Tc=543 deg. C from |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 4042 | 962 | | 14/B | 17 | 29.0 - 30.5 | 17.30 | | | 17.23-17.26 m |
| 4041 | | 4883 | 14/B | 17 | 28.0 - 31.5 | 17.30 | | 5 | |
| 4046 | 964 | | 14/B | 17 | 35.5 - 37.0 | 17.36 | | | |
| 4045 | | 4885 | 14/B | 17 | 34.5 - 38.0 | 17.36 | | 5 | |
| 4050 | 966 | | 14/B | 17 | 50.5 - 52.0 | 17.51 | | 4 | |
| 4054 | 968 | | 14/B | 17 | 57.0 - 58.5 | 17.58 | | | |
| 4053 | | 4889 | 14/B | 17 | 56.0 - 59.5 | 17.58 | | 5 | |
| 4036 | 959 | | 14/B | 17 | 70.0 - 71.5 | 17.71 | | | Disturbed, Tc=570 deg. C |
| 4035 | | 4880 | 14/B | 17 | 70.0 - 72.0 | 17.71 | | 5 | from 17.71-17.73 m |
| 4032 | 957 | | 14/B | 17 | 76.0 - 77.5 | 17.77 | | 4 | Disturbed |
| 4031 | | 4878 | 14/B | 17 | 75.0 - 78.5 | 17.77 | | 5, 6 | |
| 4024 | 953 | | 14/B | 17 | 82.0 - 83.5 | 17.83 | | | Disturbed |
| 4028 | 955 | | 14/B | 17 | 90.5 - 92.0 | 17.91 | | | Disturbed |
| 4027 | | 4876 | 14/B | 17 | 90.0 - 92.0 | 17.91 | | 5 | |
| 4040 | 961 | | 14/B | 17 | 100.5 - 102.0 | 18.01 | | | |
| 4039 | | 4882 | 14/B | 17 | 100.0 - 102.0 | 18.01 | 34 | | |
| 4044 | 963 | | 14/B | 17 | 105.0 - 106.5 | 18.06 | | | |
| 4043 | | 4884 | 14/B | 17 | 104.0 - 107.5 | 18.06 | | 5 | |
| 4048 | 965 | | 14/B | 17 | 110.0 - 111.5 | 18.11 | | | |
| 4047 | | 4886 | 14/B | 17 | 109.0 - 112.0 | 18.11 | | 5 | |
| 4052 | 967 | | 14/B | 17 | 115.5 - 117.0 | 18.16 | | | |
| 4056 | 969 | | 14/B | 17 | 120.0 - 120.5 | 18.20 | | | |
| 4055 | | 4890 | 14/B | 17 | 119.0 - 122.0 | 18.21 | | 5 | |
| 4058 | 970 | | 14/B | 17 | 125.0 - 126.5 | 18.26 | | 4 | |
| 4057 | | 4891 | 14/B | 17 | 124.5 - 127.5 | 18.26 | 35 | | |
| 4060 | 971 | | 14/B | 17 | 130.0 - 131.5 | 18.31 | | | |
| 4059 | | 4892 | 14/B | 17 | 129.5 - 132.0 | 18.31 | | 5 | |
| 4062 | 972 | | 14/B | 17 | 136.0 - 137.5 | 18.37 | | 4 | |
| 4061 | | 4893 | 14/B | 17 | 135.5 - 138.0 | 18.37 | | 5 | |
| 4064 | 973 | | 14/B | 17 | 144.0 - 145.5 | 18.45 | | | |
| 4063 | | 4894 | 14/B | 17 | 143.0 - 145.5 | 18.44 | 27 | | |
| 4068 | 975 | | 15/A | 18.55 | 3.0 - 4.5 | 18.59 | | 4 | |
| 4067 | | 4895 | 15/A | 18.55 | 2.0 - 5.5 | 18.59 | | 5 | |
| 4072 | 977 | | 15/A | 18.55 | 8.5 - 10.0 | 18.64 | | | |
| 4071 | | 4897 | 15/A | 18.55 | 7.0 - 11.5 | 18.64 | 36 | | |
| 4076 | 979 | | 15/A | 18.55 | 13.5 - 15.0 | 18.69 | | | |
| 4075 | | 4899 | 15/A | 18.55 | 12.0 - 16.0 | 18.69 | | 5 | |
| 4078 | 981 | | 15/A | 18.55 | 18.5 - 21.0 | 18.75 | | 4 | Tc=562 deg. C from |
| 4077 | | 4901 | 15/A | 18.55 | 17.5 - 21.5 | 18.75 | 50 | | 18.73-18.76 m |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 4080 | 983 | | 15/A | 18.55 | 23.5 - 25.0 | 18.79 | | | |
| 4079 | | 4902 | 15/A | 18.55 | 22.0 - 26.0 | 18.79 | | 5 | |
| 4082 | 985 | | 15/A | 18.55 | 28.5 - 30.0 | 18.84 | | | |
| 4081 | | 4904 | 15/A | 18.55 | 27.5 - 31.0 | 18.84 | 25 | | |
| 4084 | 986 | | 15/A | 18.55 | 33.0 - 34.5 | 18.89 | | | |
| 4083 | | 4906 | 15/A | 18.55 | 32.0 - 35.5 | 18.89 | | 5 | |
| 4086 | 988 | | 15/A | 18.55 | 39.0 - 40.5 | 18.95 | | 4 | |
| 4085 | | 4908 | 15/A | 18.55 | 37.5 - 42.0 | 18.95 | | 5, 6 | |
| 4066 | 974 | | 15/A | 18.55 | 45.0 - 46.5 | 19.01 | | | |
| 4065 | | 4896 | 15/A | 18.55 | 44.0 - 47.0 | 19.01 | | 5 | |
| 4070 | 976 | | 15/A | 18.55 | 50.0 - 51.5 | 19.06 | | | Tc=548 deg. C at 19.05 m |
| 4069 | | 4898 | 15/A | 18.55 | 49.5 - 52.0 | 19.06 | | 5 | |
| 4074 | 978 | | 15/A | 18.55 | 55.0 - 56.5 | 19.11 | | | |
| 4073 | | 4900 | 15/A | 18.55 | 54.5 - 57.5 | 19.11 | 27 | | |
| 4088 | 980 | | 15/A | 18.55 | 60.0 - 61.5 | 19.16 | | | |
| 4087 | | 4903 | 15/A | 18.55 | 59.5 - 62.0 | 19.16 | 27 | | |
| 4090 | 982 | | 15/A | 18.55 | 66.0 - 67.5 | 19.22 | | 4 | |
| 4089 | | 4905 | 15/A | 18.55 | 65.5 - 68.0 | 19.22 | | 5 | |
| 4092 | 987 | | 15/A | 18.55 | 72.0 - 73.5 | 19.28 | | | |
| 4094 | 989 | | 15/A | 18.55 | 76.5 - 78.0 | 19.32 | | | |
| 4096 | 990 | | 15/A | 18.55 | 82.5 - 84.0 | 19.38 | | | |
| 4095 | | 4910 | 15/A | 18.55 | 81.5 - 84.0 | 19.38 | | 5 | |
| 3299 | 552 | | 16/A | 19.49 | 2.0 - 4.5 | 19.52 | | | Cinders |
| 3703 | 553 | | 16/A | 19.49 | 6.0 - 8.5 | 19.56 | | | Cinders |
| 3309 | 555 | | 16/A | 19.49 | 28.0 - 31.0 | 19.79 | | | |
| 3710 | 556 | | 16/A | 19.49 | 34.5 - 36.0 | 19.84 | | | Tephra (Rockland) |
| 3301 | 563 | | 16/A | 19.49 | 39.0 - 40.5 | 19.89 | | | Tephra (Rockland) |
| 3705 | 554 | | 16/A | 19.49 | 44.0 - 45.5 | 19.94 | | | Tephra (Rockland) |
| 4105 | 557 | | 17/A | 20.12 | 5.0 - 7.0 | 20.18 | | | |
| 4109 | 558 | | 17/A | 20.12 | 10.0 - 12.0 | 20.23 | | | |
| 4113 | 559 | | 17/A | 20.12 | 15.0 - 17.0 | 20.28 | | | |
| 4117 | 560 | | 17/A | 20.12 | 20.0 - 22.0 | 20.33 | | | |
| 4121 | 561 | | 17/A | 20.12 | 25.0 - 27.0 | 20.38 | | | |
| 4125 | 562 | | 17/A | 20.12 | 30.0 - 32.0 | 20.43 | | | |
| 4129 | 625 | | 17/A | 20.12 | 37.0 - 39.0 | 20.50 | | | |
| 4133 | 564 | | 17/A | 20.12 | 42.0 - 44.0 | 20.55 | | | |
| 4137 | 565 | | 17/A | 20.12 | 47.0 - 49.0 | 20.60 | | | |
| 4141 | 566 | | 17/A | 20.12 | 52.0 - 54.0 | 20.65 | | | |
| 4145 | 567 | | 17/A | 20.12 | 57.0 - 59.0 | 20.70 | | | |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 4149 | 568 | | 17/A | 20.12 | 64.0 - 66.0 | 20.77 | | | Reworked tephra |
| 4153 | 569 | | 17/A | 20.12 | 75.0 - 77.0 | 20.88 | | | (Dibekulewe) |
| 4157 | 570 | | 17/A | 20.12 | 80.0 - 82.0 | 20.93 | | | |
| 4161 | 571 | | 17/A | 20.12 | 85.0 - 87.0 | 20.98 | | | |
| 4165 | 572 | | 18/A | 21.01 | 5.0 - 7.0 | 21.07 | | | |
| 4169 | 573 | | 18/A | 21.01 | 10.0 - 12.0 | 21.12 | | | |
| 4173 | 574 | | 18/A | 21.01 | 15.0 - 17.0 | 21.17 | | | |
| 4177 | 575 | | 18/A | 21.01 | 20.0 - 22.0 | 21.22 | | | |
| 4181 | 576 | | 18/A | 21.01 | 25.0 - 27.0 | 21.27 | | | |
| 4185 | 577 | | 18/A | 21.01 | 35.0 - 37.0 | 21.37 | | | |
| 4189 | 578 | | 18/A | 21.01 | 40.0 - 42.0 | 21.42 | | | |
| 4193 | 579 | | 18/A | 21.01 | 45.0 - 47.0 | 21.47 | | | |
| 4197 | 580 | | 18/A | 21.01 | 50.0 - 52.0 | 21.52 | | | |
| 4201 | 581 | | 18/A | 21.01 | 55.0 - 57.0 | 21.57 | | | |
| 4205 | 582 | | 18/A | 21.01 | 60.0 - 62.0 | 21.62 | | | |
| 4209 | 583 | | 18/A | 21.01 | 65.0 - 67.0 | 21.67 | | | Tc=550 deg. C from |
| 4213 | 584 | | 18/A | 21.01 | 71.0 - 73.0 | 21.73 | | | 21.66-21.68 m |
| 4217 | 585 | | 19/A | 21.87 | 5.0 - 7.0 | 21.93 | | | |
| 4221 | 586 | | 19/A | 21.87 | 10.0 - 12.0 | 21.98 | | | |
| 4225 | 587 | | 19/A | 21.87 | 15.0 - 17.0 | 22.03 | | | |
| 4229 | 588 | | 19/A | 21.87 | 20.0 - 22.0 | 22.08 | | | |
| 4233 | 589 | | 19/A | 21.87 | 25.0 - 27.0 | 22.13 | | | |
| 4237 | 590 | | 19/A | 21.87 | 30.0 - 32.0 | 22.18 | | | |
| 4241 | 591 | | 19/A | 21.87 | 35.0 - 37.0 | 22.23 | | | |
| 4245 | 592 | | 19/A | 21.87 | 40.0 - 42.0 | 22.28 | | | Above Lava Creek B |
| 4249 | 593 | | 19/A | 21.87 | 50.0 - 52.0 | 22.38 | | | Below Lava Creek B |
| 4253 | 594 | | 19/A | 21.87 | 55.0 - 57.0 | 22.42 | | | |
| 4257 | 595 | | 19/A | 21.87 | 60.0 - 62.0 | 22.48 | | | |
| 4261 | 596 | | 19/A | 21.87 | 75.0 - 77.0 | 22.63 | | | |
| 4265 | 597 | | 19/A | 21.87 | 80.0 - 82.0 | 22.68 | | | |
| 4269 | 598 | | 19/A | 21.87 | 85.0 - 87.0 | 22.73 | | | |
| 4273 | 599 | | 19/A | 21.87 | 90.0 - 92.0 | 22.78 | | | |
| 4277 | 600 | | 19/A | 21.87 | 95.0 - 97.0 | 22.83 | | | |
| 4281 | 601 | | 19/A | 21.87 | 100.0 - 102.0 | 22.88 | | | |
| 4285 | 602 | | 19/A | 21.87 | 105.0 - 107.0 | 22.93 | | | |
| 4289 | 603 | | 19/A | 21.87 | 110.0 - 112.0 | 22.98 | | | |
| 4293 | 604 | | 19/A | 21.87 | 115.0 - 117.0 | 23.03 | | | |
| 4297 | 605 | | 19/B | 23.07 | 5.0 - 7.0 | 23.13 | | | |
| 4301 | 606 | | 19/B | 23.07 | 10.0 - 12.0 | 23.18 | | | |

| Sample No. | Sample Box No. (sample volume is 3.2 cc) | Vial No. | Slug | Depth to top of slug (meter) | Depth interval relative to top of slug (cm) | Depth in hole. (meter) | Grain Size Per-cent >3.2 um | Table No. for ancillary data | Comments |
|---|---|---|---|---|---|---|---|---|---|
| 4305 | 607 | | 19/B | 23.07 | 15.0 - 17.0 | 23.23 | | | |
| 4309 | 608 | | 19/B | 23.07 | 20.0 - 22.0 | 23.28 | | | Tc=560 deg. C from |
| 4313 | 609 | | 19/B | 23.07 | 25.0 - 27.0 | 23.33 | | | 23.27-23.29 m |
| 4317 | 610 | | 19/B | 23.07 | 30.0 - 32.0 | 23.38 | | | |
| 4321 | 611 | | 19/B | 23.07 | 35.0 - 37.0 | 23.43 | | | |
| 4325 | 612 | | 19/B | 23.07 | 40.0 - 42.0 | 23.48 | | | |
| 4329 | 613 | | 19/B | 23.07 | 45.0 - 47.0 | 23.53 | | | |
| 4333 | 614 | | 19/B | 23.07 | 50.0 - 52.0 | 23.58 | | | |
| 4337 | 615 | | 19/B | 23.07 | 55.0 - 57.0 | 23.63 | | | |
| 4341 | 616 | | 19/B | 23.07 | 60.0 - 62.0 | 23.68 | | | |
| 4345 | 617 | | 19/B | 23.07 | 65.0 - 67.0 | 23.73 | | | |
| 4349 | 618 | | 19/B | 23.07 | 70.0 - 72.0 | 23.78 | | | |
| 4353 | 619 | | 19/B | 23.07 | 75.0 - 77.0 | 23.83 | | | |
| 4357 | 620 | | 19/B | 23.07 | 80.0 - 82.0 | 23.88 | | | |
| 4361 | 621 | | 19/B | 23.07 | 85.0 - 87.0 | 23.93 | | | |
| 4365 | 622 | | 19/B | 23.07 | 90.0 - 92.0 | 23.98 | | | |
| 4369 | 623 | | 19/B | 23.07 | 95.0 - 97.0 | 24.03 | | | |
| 4373 | 624 | | 19/B | 23.07 | 100.0 - 102.0 | 24.08 | | | |

## TABLE 2. Paleomagnetic Data

**Sample Box No:** A unique number assigned to paleomagnetic samples that are placed in plastic boxes.

**Depth:** Depth in hole as in Table 1.

**Magnetometer:** Magnetometer used to measure remanent magnetization in the USGS Denver rock magnetism laboratory -- S is a 5 hertz spinner magnetometer, C is a cryogenic magnetometer, and J is a 90 hertz spinner magnetometer.

**Declination:** Declination of the characteristic magnetization. Characteristic directions of magnetization were determined by fitting lines to demagnetization data.

**Inclination:** Inclination of the characteristic magnetization.

**NRM:** The magnitude of natural remanent magnetization in Amperes/meter (A/m).

**Magnetization removed in demagnetization interval:** The difference in magnitude between the magnetizations for the lowest and highest demagnetization steps included in calculating the characteristic magnetization.

**Demagnetization interval used for linear fit**: The highest and lowest demagnetization steps in milliTesla (mT) used in calculating the characteristic direction.

**No. of points used in linear fit:** The number of demagnetization steps used in calculating the characteristic direction.

**Error angle:** The maximum angular deviation for the demagnetization steps used in calculating the characteristic direction.

**Subjective quality of demagnetization path:** A consensus ranking (A, B, or C) of the linearity of the demagnetization path, after visual inspection of a vector endpoint diagram.

| SAMPLE Box No. (sample volume is 3.2cc) | Depth (meter) | Magneto met | Declination (deg.) Linear fit | Inclination (deg.) Linear fit | NRM A/m | Magnetization removed in demagnetization interval A/m | Demagnetization interval used for linear fit (mT) | No. Pts. used in linear fit | Error Angle | Subjective quality of demagnetization path (A=best C=worst) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Slug 9/A | | | | | | | | | | | |
| 500 | 5.31 | S | 225.6 | 54 | 6.38E-03 | 3.75E-03 | 5 - 60 | 7 | 6.2 | A | |
| 501 | 5.41 | C | 24.3 | 53.1 | 3.06E-03 | 1.90E-03 | 5 - 80 | 8 | 6 | A | |
| 502 | 5.46 | C | 229.5 | 30.7 | 2.69E-03 | 8.53E-04 | 20 - 60 | 4 | 5.3 | A | |
| 503 | 5.51 | C | 207.9 | 21 | 2.85E-03 | 8.50E-04 | 20 - 60 | 4 | 7.5 | B | |
| 522 | 5.56 | C | 261.3 | 58.2 | 2.74E-03 | 1.14E-03 | 10 - 60 | 5 | 16.1 | B | |
| 523 | 5.61 | C | 270.7 | 37.1 | 1.77E-03 | 7.22E-04 | 20 - 60 | 4 | 17.3 | B | |
| 524 | 5.66 | C | 50.1 | 42.7 | 2.28E-03 | 8.97E-04 | 10 - 60 | 5 | 3.8 | A | |
| 512 | 5.71 | C | 134.4 | 37.3 | 2.96E-03 | 1.34E-03 | 10 - 60 | 5 | 7.5 | A | |
| 511 | 5.75 | C | 3.5 | 63.7 | 1.14E-03 | 5.88E-04 | 10 - 80 | 7 | 12.2 | B | |
| 510 | 5.81 | S | 181.7 | 63.9 | 1.60E-03 | 6.94E-04 | 3 - 20 | 5 | 7.2 | C | |
| 509 | 5.86 | C | 128.9 | 58.1 | 2.75E-03 | 1.24E-03 | 10 - 60 | 5 | 9.4 | A | |
| 508 | 5.91 | C | 84.1 | 53 | 3.00E-03 | 1.15E-03 | 10 - 40 | 4 | 9.3 | B | |
| 507 | 5.96 | C | 344.5 | 39.6 | 2.63E-03 | 5.66E-04 | 30 - 60 | 3 | 7.9 | B | |
| 506 | 6.01 | C | 83.3 | 44.2 | 2.59E-03 | 1.59E-03 | 5 - 60 | 7 | 7.3 | A | |
| 505 | 6.06 | S | 22.8 | 61.4 | 1.83E-03 | 1.03E-03 | 10 - 80 | 7 | 14.8 | B | |
| 504 | 6.11 | C | 243.4 | 43.5 | 2.26E-03 | 1.00E-03 | 10 - 60 | 5 | 10.2 | A | |
| 513 | 6.16 | C | 134.8 | 59 | 2.54E-03 | 1.04E-03 | 10 - 60 | 5 | 17.8 | B | |
| 514 | 6.21 | C | 118.2 | 60.4 | 3.44E-03 | 1.42E-03 | 10 - 60 | 5 | 18.9 | B | |
| 515 | 6.25 | S | 164 | 55.9 | 3.41E-03 | 1.91E-03 | 5 - 80 | 8 | 8.6 | A | |
| 516 | 6.31 | C | 177.5 | 42.8 | 3.13E-03 | 1.93E-03 | 3 - 80 | 9 | 10 | A | |
| 517 | 6.36 | C | 89.5 | 57 | 2.56E-03 | 1.33E-03 | 10 - 60 | 5 | 9.7 | B | |
| 518 | 6.41 | C | 129.8 | 40.1 | 2.34E-03 | 9.06E-04 | 10 - 40 | 4 | 6.5 | A | |
| 519 | 6.47 | C | 147.5 | 79.8 | 2.10E-03 | 8.56E-04 | 10 - 60 | 5 | 17.1 | B | |
| 520 | 6.51 | S | 306.1 | 71.8 | 2.06E-03 | 1.37E-03 | 5 - 80 | 8 | 11.3 | B | |
| 521 | 6.57 | C | 213.5 | 53.1 | 2.67E-03 | 1.30E-03 | 10 - 80 | 7 | 18.7 | B | |
| Slug 10/A | | | | | | | | | | | |
| 525 | 6.71 | S | 215.8 | 40 | 2.47E-03 | 9.81E-04 | 10 - 60 | 7 | 16.8 | B | |
| 526 | 6.77 | C | 179.8 | 39.5 | 5.53E-03 | 1.25E-03 | 15 - 80 | 6 | 19.6 | C | |
| 527 | 6.81 | C | 222.9 | 34.6 | 3.75E-03 | 1.22E-03 | 10 - 40 | 4 | 11.8 | B | |
| 528 | 6.86 | C | 183.8 | 32.1 | 3.19E-03 | 1.04E-03 | 10 - 40 | 4 | 10.3 | A | |
| 529 | 6.91 | C | 184.8 | 46.3 | 3.02E-03 | 1.31E-03 | 10 - 60 | 5 | 16.5 | C | |
| 530 | 6.96 | S | 125.5 | 49.1 | 3.78E-03 | 1.35E-03 | 5 - 40 | 6 | 12.6 | B | |
| 531 | 7.05 | C | 137.8 | 65 | 4.16E-03 | 1.67E-03 | 10 - 80 | 7 | 13.8 | B | |
| 532 | 7.11 | C | 52.9 | 72 | 4.66E-03 | 1.94E-03 | 10 - 60 | 5 | 11 | A | |
| 533 | 7.20 | C | 193.3 | 51.6 | 3.50E-03 | 1.41E-03 | 10 - 40 | 4 | 8.6 | A | |
| 534 | 7.25 | C | 202 | 47.1 | 3.02E-03 | 1.48E-03 | 10 - 60 | 5 | 12.7 | B | |
| 535 | 7.31 | S | 198.7 | 58.5 | 2.87E-03 | 1.65E-03 | 5 - 40 | 6 | 8.5 | B | |
| 536 | 7.36 | C | 220 | 53.4 | 3.69E-03 | 1.18E-03 | 15 - 80 | 6 | 10.6 | B | |
| 537 | 7.41 | C | 193.6 | 26.7 | 5.47E-03 | 1.68E-03 | 10 - 60 | 5 | 15.9 | B | |
| 538 | 7.46 | C | 212 | 43.3 | 4.63E-03 | 1.38E-03 | 10 - 40 | 4 | 6.6 | A | |
| 539 | 7.52 | C | 162.5 | 42.9 | 6.69E-03 | 1.00E-03 | 20 - 60 | 4 | 8.2 | B | |
| 540 | 7.57 | S | 198.6 | 51 | 5.50E-03 | 2.24E-03 | 5 - 80 | 8 | 11.2 | A | |
| 541 | 7.62 | C | 192 | 41.1 | 2.45E-03 | 1.40E-03 | 20 - 80 | 5 | 19.2 | C | |
| 542 | 7.67 | C | 171.4 | 32.2 | 3.00E-03 | 1.50E-03 | 10 - 60 | 5 | 13.7 | B | |
| 543 | 7.71 | C | 155 | 50 | 9.44E-03 | 1.50E-03 | 10 - 40 | 4 | 9.1 | B | |
| 544 | 7.78 | C | 34.8 | 72.9 | 3.91E-03 | 1.45E-03 | 10 - 40 | 4 | 9.3 | B | Disturbed |
| 545 | 7.83 | S | 140.8 | 66.8 | 2.65E-03 | 1.54E-03 | 205 - 30 | 6 | 12 | C | Disturbed |
| 546 | 7.88 | C | 116.7 | 79.8 | 2.62E-03 | 2.22E-03 | 5 - 40 | 6 | 11.5 | B | Disturbed |
| 547 | 7.92 | C | 53.8 | 48.7 | 1.99E-03 | 8.62E-04 | 10 - 40 | 4 | 15.4 | B | Disturbed |
| 548 | 7.97 | C | 107.3 | 68.7 | 3.03E-03 | 1.53E-03 | 10 - 60 | 5 | 17.4 | B | Disturbed |
| 549 | 8.01 | C | 289.2 | 76 | 1.69E-03 | 3.66E-04 | 10 - 40 | 4 | 12.3 | A | Disturbed |
| 550 | 8.07 | S | 33.2 | 80.6 | 2.45E-03 | 1.38E-03 | 5 - 80 | 8 | 12.4 | B | Disturbed |

| SAMPLE Box No. (sample volume is 3.2cc) | Depth (meter) | Magneto met | Declination (deg.) Linear fit | Inclination (deg.) Linear fit | NRM A/m | Magnetization removed in demagnetization interval A/m | Demagnetization interval used for linear fit (mT) | No. Pts. used in linear fit | Error Angle | Subjective quality of demagnetization path (A=best C=worst) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 551 | 8.13 | C | 221.8 | 42.7 | 5.03E-03 | 9.22E-04 | 10 - 60 | 6 | 13.2 | B | Disturbed |
| Slug 10/B | | | | | | | | | | | |
| 800 | 8.20 | C | 100.9 | 8.7 | 4.69E-03 | 3.47E-03 | 5 - 80 | 8 | 4.1 | A | |
| 802 | 8.25 | C | 302.6 | 53 | 1.17E-03 | 6.00E-04 | 10 - 40 | 4 | 18.4 | B | |
| 804 | 8.29 | C | 92.1 | 59.4 | 1.58E-03 | 9.63E-04 | 10 - 60 | 5 | 9.3 | A | |
| 806 | 8.34 | C | 240.7 | 60.7 | 1.61E-03 | 7.88E-04 | 10 - 60 | 5 | 14.4 | B | |
| 808 | 8.39 | C | 199.5 | 71.4 | 1.41E-03 | 5.19E-04 | 10 - 60 | 5 | 22.9 | B | |
| 810 | 8.45 | C | 9.2 | 36.8 | 2.66E-03 | 1.17E-03 | 5 - 80 | 8 | 21.2 | B | |
| 812 | 8.49 | C | 58.2 | 74.6 | 2.24E-03 | 5.69E-04 | 10 - 40 | 4 | 10.9 | B | |
| 814 | 8.54 | C | 7.9 | 61.1 | 2.51E-03 | 8.28E-04 | 10 - 40 | 4 | 15.4 | B | |
| 816 | 8.59 | C | 57 | 49.5 | 2.25E-03 | 9.75E-04 | 10 - 60 | 5 | 13.6 | A | |
| 818 | 8.64 | C | 178.2 | 80.6 | 1.63E-03 | 8.78E-04 | 10 - 60 | 5 | 22.1 | B | |
| 820 | 8.69 | C | 64.5 | 62.6 | 2.40E-03 | 1.23E-03 | 5 - 60 | 7 | 12.9 | B | |
| 821 | 8.74 | C | 346.1 | 43.4 | 2.01E-03 | 1.38E-03 | 10 - 60 | 5 | 14.1 | B | |
| 811 | 8.80 | C | 198.9 | 57.4 | 2.53E-03 | 1.01E-03 | 10 - 60 | 5 | 15.7 | B | |
| 813 | 8.86 | C | 139.8 | 62.5 | 1.78E-03 | 8.38E-04 | 10 - 60 | 5 | 11.4 | B | |
| 815 | 8.91 | C | 120.8 | 59.7 | 2.13E-03 | 1.25E-03 | 5 - 60 | 7 | 12.7 | B | |
| 817 | 8.96 | C | 122.6 | 46.5 | 1.45E-03 | 6.16E-04 | 10 - 40 | 4 | 9.9 | B | |
| 819 | 9.01 | C | 197.7 | 48.4 | 1.58E-03 | 9.44E-04 | 10 - 60 | 5 | 12.1 | B | |
| 809 | 9.09 | C | 228.2 | 67.2 | 1.84E-03 | 8.34E-04 | 10 - 60 | 5 | 11.3 | B | |
| 807 | 9.16 | C | 90.8 | 40.6 | 1.88E-03 | 9.72E-04 | 10 - 60 | 5 | 13.7 | B | |
| 805 | 9.21 | C | 28.7 | 55.4 | 2.61E-03 | 1.19E-03 | 10 - 60 | 6 | 10.2 | A | |
| 803 | 9.27 | C | 247.5 | 72.3 | 1.00E-03 | 8.94E-04 | 10 - 60 | 5 | 25.3 | C | |
| 801 | 9.37 | C | 124.5 | 47.7 | 2.41E-03 | 1.19E-03 | 10 - 60 | 5 | 14.3 | A | |
| Slug 11/A | | | | | | | | | | | |
| 822 | 9.47 | C | 150 | 38.4 | 2.88E-03 | 1.37E-03 | 10 - 60 | 5 | 11.6 | B | |
| 824 | 9.52 | | | | | | | | | | Tephra (Loleta) |
| 826 | 9.57 | C | 139.3 | 40.6 | 2.48E-03 | 1.03E-03 | 10 - 60 | 5 | 11.1 | B | |
| 827 | 9.66 | C | 193.9 | 51.6 | 2.34E-03 | 1.20E-03 | 10 - 60 | 5 | 10.7 | B | |
| 829 | 9.71 | C | 142.3 | 53 | 1.99E-03 | 1.24E-03 | 10 - 60 | 5 | 10.2 | A | |
| 830 | 9.76 | C | 202.6 | 42.1 | 1.08E-03 | 6.47E-04 | 5 - 40 | 6 | 18.7 | C | |
| 832 | 9.81 | C | 200.9 | 47.8 | 1.33E-03 | 7.37E-04 | 10 - 40 | 4 | 10.1 | B | |
| 834 | 9.86 | C | 193.6 | 47.9 | 1.77E-03 | 7.78E-04 | 10 - 60 | 5 | 11.6 | B | |
| 836 | 9.91 | C | 205.1 | 36.4 | 2.27E-03 | 9.78E-04 | 10 - 60 | 5 | 17.1 | B | |
| 838 | 9.96 | C | 195.6 | 51 | 3.94E-03 | 1.76E-03 | 10 - 60 | 5 | 12.8 | A | |
| 840 | 10.04 | C | 206 | 51.9 | 5.09E-03 | 2.70E-03 | 5 - 60 | 7 | 6.4 | A | |
| 842 | 10.10 | C | 215.5 | 60.4 | 6.03E-03 | 2.36E-03 | 10 - 60 | 5 | 9.9 | A | |
| 823 | 10.16 | C | 234.2 | 54.1 | 7.59E-03 | 2.56E-03 | 10 - 60 | 5 | 6.5 | A | |
| 825 | 10.21 | C | 216.8 | 58.6 | 8.09E-03 | 4.16E-03 | 5 - 60 | 7 | 5.4 | A | |
| 828 | 10.27 | C | 229.4 | 62.1 | 9.97E-03 | 4.31E-03 | 10 - 60 | 5 | 6.5 | A | |
| 831 | 10.32 | C | 207.5 | 55 | 1.63E-02 | 7.88E-03 | 10 - 60 | 5 | 4.7 | A | |
| 833 | 10.36 | C | 171.9 | 58.3 | 6.38E-03 | 2.44E-03 | 10 - 60 | 5 | 10.8 | B | |
| 835 | 10.41 | C | 207.9 | 61.1 | 8.94E-03 | 4.56E-03 | 5 - 60 | 7 | 5.3 | A | |
| 837 | 10.46 | C | 206.4 | 59.6 | 1.01E-02 | 3.78E-03 | 10 - 40 | 4 | 2.4 | A | |
| 839 | 10.51 | C | 226 | 49.2 | 7.84E-03 | 3.16E-03 | 10 - 60 | 5 | 5.5 | A | |
| 841 | 10.57 | C | 210.3 | 58.7 | 6.84E-03 | 3.91E-03 | 10 - 40 | 4 | 6.9 | A | |
| 843 | 10.61 | C | 124.3 | 72.7 | 2.37E-02 | 1.13E-02 | 10 - 40 | 4 | 2.6 | A | |
| 844 | 10.66 | C | 71 | 69.2 | 1.11E-02 | 5.91E-03 | 10 - 60 | 5 | 8.8 | B | |
| 845 | 10.71 | C | 21.9 | 56.9 | 3.91E-02 | 3.05E-02 | 5 - 80 | 8 | 6.1 | A | |
| 846 | 10.76 | C | 52.1 | 66.7 | 1.13E-01 | 5.88E-02 | 10 - 40 | 4 | 5.4 | A | |
| Slug 11/B | | | | | | | | | | | |
| 847 | 10.79 | C | 244.2 | 62.3 | 5.28E-02 | 2.66E-02 | 10 - 60 | 5 | 3.5 | A | |
| 849 | 10.84 | C | 232.4 | 64 | 1.59E-02 | 6.63E-03 | 10 - 60 | 5 | 5.3 | B | |

| SAMPLE Box No. (sample volume is 3.2cc) | Depth (meter) | Mag neto met | Dec-lina-tion (deg.) Linear fit | Inc-lina-tion (deg.) Linear fit | NRM A/m | Magnet-ization removed in demag-netization interval A/m | Demagnet-ization inter-val used for linear fit (mT) | No. Pts. used in linear fit | Error Angle | Subjec-tive quality of demag-netization path (A=best C=worst) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 851 | 10.90 | C | 202.3 | 39.2 | 1.16E-01 | 6.03E-02 | 10 - 60 | 5 | 3.6 | A | |
| 853 | 10.95 | C | 181.3 | 55.7 | 1.06E-01 | 6.84E-02 | 10 - 60 | 5 | 2.4 | A | |
| 855 | 10.99 | C | 185.9 | 48.6 | 6.63E-02 | 3.84E-02 | 10 - 60 | 6 | 3.4 | A | |
| 857 | 11.04 | C | 142.2 | 46.7 | 8.00E-02 | 3.75E-02 | 10 - 40 | 4 | 4.8 | A | |
| 859 | 11.09 | C | 148.6 | 54 | 5.25E-02 | 2.40E-02 | 10 - 60 | 5 | 6.8 | A | |
| 861 | 11.13 | C | 115 | 67.4 | 7.75E-02 | 3.59E-02 | 10 - 60 | 5 | 5.7 | A | |
| 848 | 11.21 | C | 11.3 | 67.9 | 1.69E-02 | 8.56E-03 | 10 - 60 | 5 | 7.9 | A | |
| 850 | 11.26 | C | 225.3 | 80.6 | 1.89E-02 | 1.24E-02 | 10 - 80 | 7 | 3.8 | A | |
| 852 | 11.31 | C | 225.4 | 55.4 | 1.66E-02 | 8.25E-03 | 10 - 60 | 5 | 3.9 | A | |
| 854 | 11.36 | C | 196.5 | 51.1 | 1.14E-02 | 5.25E-03 | 10 - 60 | 5 | 3.7 | A | |
| 856 | 11.41 | C | 189.6 | 64.3 | 1.22E-02 | 4.53E-03 | 10 - 40 | 4 | 6.1 | A | |
| 858 | 11.48 | C | 240.4 | 50.8 | 2.67E-03 | 1.12E-03 | 10 - 60 | 5 | 11.5 | B | |
| 860 | 11.53 | C | 179.1 | 55 | 6.88E-03 | 4.22E-03 | 5 - 60 | 7 | 5.7 | A | |
| 862 | 11.58 | C | 155.9 | 66.9 | 2.07E-02 | 8.59E-03 | 10 - 60 | 5 | 11.5 | B | |
| Slug 12/A | | | | | | | | | | | |
| 863 | 11.59 | C | 55.3 | 84.3 | 2.32E-02 | 1.19E-02 | 10 - 60 | 5 | 8 | A | |
| 865 | 11.64 | C | 75.7 | 81 | 3.31E-02 | 2.44E-02 | 5 - 60 | 7 | 4.4 | A | |
| 867 | 11.69 | C | 52.7 | 61.1 | 2.11E-02 | 1.11E-02 | 10 - 60 | 5 | 4.6 | A | |
| 869 | 11.74 | C | 11 | 81 | 3.75E-02 | 2.06E-02 | 10 - 60 | 5 | 7.9 | B | |
| 871 | 11.79 | C | 11.5 | 59.8 | 1.48E-02 | 8.19E-03 | 10 - 60 | 5 | 4.4 | A | |
| 873 | 11.84 | C | 30.4 | 71.9 | 1.90E-02 | 1.17E-02 | 10 - 60 | 5 | 7.3 | A | |
| 875 | 11.89 | C | 242.7 | 57.8 | 1.20E-02 | 8.16E-03 | 10 - 60 | 6 | 4.4 | A | |
| 877 | 11.94 | C | 98.1 | 65.1 | 1.42E-02 | 6.75E-03 | 10 - 60 | 5 | 5.5 | A | |
| 879 | 11.99 | C | 68.1 | 60.4 | 4.63E-03 | 2.20E-03 | 10 - 40 | 4 | 5.9 | A | |
| 881 | 12.04 | C | 52.2 | 68.3 | 4.66E-03 | 2.39E-03 | 10 - 60 | 5 | 7.5 | A | |
| 883 | 12.08 | C | 186.1 | 73.1 | 1.38E-02 | 8.13E-03 | 10 - 60 | 5 | 4.9 | A | |
| 885 | 12.13 | C | 181.6 | 32 | 8.53E-03 | 5.66E-03 | 5 - 40 | 6 | 5.5 | A | |
| 887 | 12.19 | C | 265.2 | 72.2 | 3.09E-03 | 1.79E-03 | 10 - 60 | 5 | 12.3 | B | |
| 864 | 12.23 | C | 209.9 | 47 | 1.58E-01 | 5.25E-02 | 10 - 40 | 4 | 1.8 | A | Black tephra |
| 866 | 12.30 | C | 125.3 | 57.7 | 1.19E-02 | 5.66E-03 | 10 - 60 | 5 | 5.4 | A | |
| 868 | 12.35 | C | 128.4 | 67.1 | 1.95E-02 | 9.38E-03 | 10 - 60 | 5 | 3.8 | A | |
| 870 | 12.40 | C | 88.2 | 76 | 1.14E-02 | 6.06E-03 | 10 - 80 | 7 | 8.9 | A | |
| 872 | 12.45 | C | 307.6 | 63.3 | 1.08E-02 | 5.66E-03 | 10 - 60 | 5 | 4.1 | A | |
| 874 | 12.50 | C | 273.2 | 70.4 | 2.05E-02 | 8.25E-03 | 10 - 60 | 5 | 5.3 | A | Tephra |
| 876 | 12.56 | C | 184.4 | 62.8 | 7.78E-03 | 3.75E-03 | 10 - 60 | 5 | 5.6 | A | |
| 878 | 12.61 | C | 181.6 | 64.1 | 1.45E-02 | 7.19E-03 | 10 - 60 | 5 | 4.2 | A | |
| 880 | 12.66 | C | 171.7 | 51.9 | 9.34E-03 | 6.63E-03 | 5 - 80 | 8 | 4.3 | A | |
| 882 | 12.73 | C | 169.1 | 82.6 | 3.97E-03 | 1.89E-03 | 10 - 60 | 5 | 11.3 | B | |
| 884 | 12.78 | C | 107 | 63.9 | 2.61E-02 | 1.46E-02 | 10 - 60 | 5 | 2.9 | A | |
| 886 | 12.84 | C | 297.4 | 77.9 | 2.08E-02 | 1.40E-02 | 10 - 60 | 5 | 2.8 | A | |
| 888 | 12.89 | C | 159.8 | 58.9 | 5.78E-02 | 2.87E-02 | 10 - 60 | 5 | 1.2 | A | |
| 889 | 12.94 | C | 211 | 63.3 | 5.25E-02 | 2.69E-02 | 10 - 60 | 5 | 3.5 | A | |
| Slug 12/B | | | | | | | | | | | |
| 890 | 13.02 | C | 135.2 | 55.8 | 2.85E-02 | 1.18E-02 | 10 - 60 | 6 | 3.7 | A | |
| 893 | 13.07 | C | 58.3 | 81.3 | 5.44E-02 | 2.66E-02 | 10 - 60 | 5 | 4.4 | B | |
| 895 | 13.12 | C | 181.1 | 61.7 | 5.19E-02 | 1.14E-02 | 20 - 80 | 5 | 6.3 | A | |
| 897 | 13.18 | C | 155 | 62.6 | 5.22E-02 | 5.69E-02 | 10 - 60 | 5 | 1.6 | A | |
| 899 | 13.23 | C | 146.1 | 64.5 | 3.91E-02 | 2.00E-02 | 10 - 60 | 5 | 5.2 | A | |
| 901 | 13.27 | C | 111.7 | 71.5 | 3.69E-02 | 1.85E-02 | 10 - 60 | 5 | 3 | A | |
| 903 | 13.32 | C | 166.6 | 54 | 5.59E-02 | 2.76E-02 | 10 - 60 | 5 | 3.9 | A | |
| 905 | 13.37 | C | 101.3 | 62.2 | 4.62E-02 | 2.67E-02 | 10 - 80 | 7 | 4.4 | A | |
| 907 | 13.42 | C | 176.5 | 43.8 | 5.16E-02 | 2.78E-02 | 10 - 60 | 5 | 2.7 | A | |
| 909 | 13.56 | C | 211 | 48.8 | 3.03E-02 | 1.55E-02 | 10 - 60 | 5 | 10.2 | A | Disturbed, Tephra (?) |

| SAMPLE Box No. (sample volume is 3.2cc) | Depth (meter) | Magneto met | Declination (deg.) Linear fit | Inclination (deg.) Linear fit | NRM A/m | Magnetization removed in demagnetization interval A/m | Demagnetization interval used for linear fit (mT) | No. Pts. used in linear fit | Error Angle | Subjective quality of demagnetization path (A=best C=worst) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 891 | 13.72 | C | 183.7 | 65.4 | 4.37E-02 | 1.86E-02 | 10 - 60 | 5 | 3.6 | A | |
| 892 | 13.77 | C | 307.5 | 74.8 | 1.86E-02 | 1.05E-02 | 10 - 60 | 5 | 4 | A | |
| 894 | 13.82 | C | 209.7 | 48.8 | 3.06E-02 | 1.57E-02 | 10 - 60 | 5 | 3.4 | A | |
| 896 | 13.87 | C | 276.2 | 71.5 | 3.22E-02 | 1.77E-02 | 10 - 60 | 5 | 5.3 | A | |
| 898 | 13.92 | C | 146.3 | 56.7 | 1.79E-02 | 8.06E-03 | 10 - 60 | 5 | 7.7 | A | |
| 900 | 13.98 | C | 353.4 | 77.1 | 1.90E-03 | 9.97E-04 | 10 - 60 | 6 | 15.2 | B | |
| 902 | 14.03 | C | 172.8 | 48.8 | 1.50E-02 | 5.88E-03 | 10 - 60 | 5 | 5.1 | A | |
| 904 | 14.07 | C | 99.9 | 75.3 | 4.59E-02 | 2.19E-02 | 10 - 60 | 5 | 2.6 | A | |
| 906 | 14.12 | C | 201.1 | 66.7 | 8.00E-02 | 4.56E-02 | 10 - 60 | 5 | 7.1 | A | |
| 908 | 14.17 | C | 229.2 | 66.6 | 1.12E-01 | 6.28E-02 | 10 - 60 | 5 | 3.2 | A | |
| 910 | 14.23 | C | 221 | 76.5 | 1.40E-01 | 1.12E-01 | 5 - 80 | 8 | 3.4 | A | |
| 911 | 14.28 | C | 194.9 | 44.8 | 1.08E-01 | 5.28E-02 | 10 - 60 | 5 | 2.1 | A | |
| 912 | 14.33 | C | 331.7 | 87.7 | 3.53E-03 | 1.38E-03 | 10 - 60 | 5 | 15.2 | A | |
| Slug 13/A | | | | | | | | | | | |
| 913 | 14.42 | C | 208.1 | 58.7 | 1.16E-02 | 5.53E-03 | 10 - 60 | 5 | 7.6 | B | |
| 915 | 14.47 | C | 76.9 | 74 | 1.75E-02 | 8.44E-03 | 10 - 80 | 7 | 6.6 | A | |
| 917 | 14.52 | C | 258 | 74.4 | 3.34E-02 | 1.55E-02 | 10 - 60 | 5 | 2.9 | A | |
| 919 | 14.57 | C | 130.8 | 71.4 | 5.63E-03 | 2.13E-03 | 10 - 60 | 5 | 5.7 | A | |
| 921 | 14.61 | C | 187.5 | 46.4 | 2.67E-03 | 9.53E-04 | 10 - 40 | 4 | 13.8 | A | |
| 923 | 14.69 | J | 115.3 | 61.5 | 3.75E-03 | 1.91E-03 | 5 - 40 | 5 | 21.3 | B | |
| 925 | 14.73 | C | 5.4 | 73 | 2.51E-03 | 1.26E-03 | 5 - 60 | 7 | 11.1 | B | |
| 927 | 14.77 | J | 242.4 | 64.5 | 4.70E-03 | 2.52E-03 | 5 - 40 | 5 | 2.2 | A | |
| 929 | 14.82 | J | 182.4 | 54.6 | 1.87E-03 | 1.13E-03 | 5 - 40 | 5 | 10.7 | A | |
| 931 | 14.89 | J | 336.5 | 84.1 | 1.17E-03 | 7.47E-04 | 5 - 80 | 7 | 18.6 | B | |
| 914 | 14.94 | C | 56 | 72.4 | 2.26E-02 | 1.14E-02 | 10 - 60 | 5 | 9.2 | A | Disturbed, Tephra |
| 916 | 15.00 | C | 18.7 | 69.3 | 1.24E-03 | 3.25E-04 | 10 - 30 | 3 | 4.8 | B | |
| 918 | 15.05 | C | 125.4 | 63.1 | 1.14E-03 | 4.34E-04 | 10 - 60 | 5 | 28.4 | B | |
| 920 | 15.10 | C | 251.8 | 37.7 | 1.33E-03 | 5.81E-04 | 5 - 30 | 5 | 16.3 | B | |
| 922 | 15.16 | J | 234.4 | 57.5 | 1.27E-03 | 9.16E-04 | 5 - 60 | 5 | 5.2 | B | |
| 924 | 15.21 | J | 185.9 | 44.8 | 1.35E-03 | 8.66E-04 | 5 - 40 | 5 | 10.5 | B | |
| 926 | 15.27 | J | 99.4 | 67.7 | 1.70E-03 | 9.53E-04 | 5 - 60 | 6 | 16.7 | B | |
| 928 | 15.32 | J | 191.5 | 57.6 | 1.50E-03 | 1.22E-03 | 5 - 60 | 6 | 11.5 | B | |
| 930 | 15.37 | C | 213 | 35.2 | 1.13E-03 | 5.81E-04 | 5 - 60 | 7 | 19.3 | B | |
| 932 | 15.43 | J | 179.5 | 38.9 | 1.27E-03 | 6.75E-04 | 10 - 60 | 5 | 9.7 | B | Tephra |
| Slug 14/A | | | | | | | | | | | |
| 933 | 15.62 | J | 111.3 | 25.4 | 2.98E-03 | 1.07E-03 | 5 - 60 | 6 | 48.6 | C | Tephra |
| 935 | 15.70 | C | 83.8 | 60.9 | 2.41E-03 | 1.32E-03 | 5 - 60 | 7 | 9 | A | |
| 936 | 15.75 | J | 129.3 | 67.1 | 1.07E-03 | 8.09E-04 | 5 - 60 | 7 | 17.4 | B | |
| 937 | 15.79 | J | 107 | 66.5 | 8.10E-04 | 4.31E-04 | 5 - 40 | 5 | 8.1 | B | |
| 938 | 15.84 | J | 54.4 | 68.5 | 8.10E-04 | 4.19E-04 | 5 - 30 | 4 | 9.1 | B | |
| 939 | 15.90 | J | 58.8 | 46.9 | 1.54E-03 | 1.16E-03 | 5 - 40 | 5 | 16.4 | B | |
| 940 | 15.95 | C | 31.2 | 74 | 1.25E-03 | 7.37E-04 | 5 - 80 | 8 | 18.8 | B | |
| 942 | 16.00 | J | 63.6 | 59.4 | 1.27E-03 | 8.34E-04 | 5 - 60 | 6 | 11.5 | B | |
| 946 | 16.07 | J | 59.2 | 57.4 | 1.40E-03 | 8.03E-04 | 5 - 40 | 6 | 7.4 | A | |
| 934 | 16.16 | J | 133.7 | 50.2 | 9.65E-04 | 5.66E-04 | 5 - 40 | 5 | 15.8 | B | |
| 941 | 16.22 | J | 79.6 | 47.6 | 8.80E-04 | 6.16E-04 | 5 - 60 | 7 | 18.9 | B | |
| 943 | 16.27 | J | 68.4 | 48.9 | 8.73E-04 | 7.81E-04 | 5 - 60 | 6 | 12.6 | B | |
| 945 | 16.33 | C | 99.2 | 29.7 | 2.32E-03 | 4.78E-04 | 10 - 80 | 7 | 18.1 | B | |
| 947 | 16.39 | J | 89.3 | 49 | 1.63E-03 | 1.13E-03 | 5 - 60 | 6 | 16.9 | B | |
| 948 | 16.50 | J | 97.7 | -31.1 | 1.51E-03 | 1.01E-03 | 5 - 60 | 6 | 9.6 | A | |
| 949 | 16.59 | J | 123 | 43.7 | 1.06E-03 | 8.47E-04 | 5 - 60 | 6 | 10.8 | A | |
| 950 | 16.77 | C | 114.2 | 29 | 8.53E-04 | 3.59E-04 | 5 - 30 | 5 | 18.7 | B | |
| 951 | 16.87 | | | | 6.05E-01 | | | | | | |

| SAMPLE Box No. (sample volume is 3.2cc) | Depth (meter) | Mag neto met | Dec-lina-tion (deg.) Linear fit | Inc-lina-tion (deg.) Linear fit | NRM A/m | Magnet-ization removed in demag-netization interval A/m | Demagnet-ization inter-val used for linear fit (mT) | No. Pts. used in linear fit | Error Angle | Subjec-tive quality of demag-netization path (A=best C=worst) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Slug 14/B | | | | | | | | | | | |
| 952 | 17.04 | J | 173.9 | 53.8 | 1.81E-03 | 1.01E-03 | 5 - 60 | 6 | 15.5 | B | |
| 954 | 17.09 | J | 239.3 | 65 | 2.25E-03 | 1.70E-03 | 5 - 60 | 6 | 12.7 | A | |
| 956 | 17.14 | J | 214.2 | 72.5 | 4.45E-03 | 3.66E-03 | 5 - 60 | 7 | 7.3 | B | |
| 958 | 17.20 | J | 129.2 | 66.6 | 7.95E-04 | 6.41E-04 | 5 - 60 | 6 | 19.2 | B | |
| 960 | 17.25 | C | 189.6 | 52.8 | 7.69E-04 | 4.63E-04 | 5 - 40 | 6 | 10.6 | B | |
| 962 | 17.30 | J | 177.5 | 53.5 | 8.10E-04 | 7.34E-04 | 5 - 60 | 6 | 8.1 | A | |
| 964 | 17.36 | J | 204.5 | 61.4 | 1.41E-03 | 1.03E-03 | 5 - 60 | 6 | 7.9 | A | |
| 966 | 17.51 | J | 225.1 | 75.8 | 2.90E-02 | 1.62E-02 | 10 - 80 | 7 | 5.8 | B | |
| 968 | 17.58 | J | 237.3 | 73.7 | 8.48E-03 | 6.56E-03 | 10 - 60 | 5 | 7.8 | B | |
| 959 | | | | | | | | | | | Disturbed |
| 957 | | | | | | | | | | | Disturbed |
| 953 | | | | | | | | | | | Disturbed |
| 955 | 17.91 | C | 91.5 | 64.6 | 1.08E-02 | 5.16E-03 | 10 - 60 | 6 | 7.8 | B | Disturbed |
| 961 | 18.01 | J | 177.3 | 28.5 | 5.18E-03 | 4.41E-03 | 5 - 60 | 7 | 12.7 | B | |
| 963 | 18.06 | J | 190.6 | 45.1 | 1.29E-02 | 7.53E-03 | 5 - 60 | 6 | 6.4 | A | |
| 965 | 18.11 | C | 192.8 | 45.1 | 2.13E-02 | 1.02E-02 | 10 - 80 | 7 | 4.4 | A | |
| 967 | 18.16 | J | 190.5 | 61 | 1.02E-02 | 8.00E-03 | 5 - 60 | 6 | 5.6 | A | |
| 969 | 18.20 | J | 203.7 | 41.4 | 2.70E-02 | 2.24E-02 | 5 - 60 | 6 | 5.3 | A | |
| 970 | 18.26 | C | 165.5 | 61.5 | 5.78E-02 | 4.09E-02 | 5 - 60 | 7 | 3.4 | A | |
| 971 | 18.31 | J | 213.8 | 39.6 | 1.15E-02 | 9.84E-03 | 5 - 80 | 8 | 5.7 | A | |
| 972 | 18.37 | J | 189.2 | 40.7 | 3.10E-03 | 2.83E-03 | 5 - 60 | 6 | 7.9 | A | |
| 973 | 18.45 | J | 303.2 | -12.7 | 4.43E-03 | 2.81E-03 | 5 - 60 | 6 | 14.9 | A | |
| Slug 15/A | | | | | | | | | | | |
| 975 | 18.59 | C | 283.1 | 82.6 | 2.36E-02 | 1.18E-02 | 10 - 80 | 7 | 9 | A | |
| 977 | 18.64 | J | 26 | 69.3 | 4.62E-02 | 4.09E-02 | 5 - 60 | 6 | 4.3 | A | |
| 979 | 18.69 | J | 323.2 | 83.5 | 6.93E-02 | 5.81E-02 | 5 - 60 | 6 | 4.4 | A | |
| 981 | 18.75 | J | 347.8 | 73.9 | 1.38E-01 | 1.30E-01 | 5 - 60 | 7 | 3.6 | A | |
| 983 | 18.79 | J | 351.1 | 68.8 | 1.17E-01 | 1.13E-01 | 5 - 60 | 6 | 3 | A | |
| 985 | 18.84 | C | 0.8 | 59.8 | 4.53E-02 | 2.73E-02 | 10 - 80 | 7 | 6.8 | A | |
| 986 | 18.89 | J | 347.1 | 76.2 | 6.63E-02 | 6.03E-02 | 5 - 60 | 7 | 2 | A | |
| 988 | 18.95 | J | 298.9 | 83.6 | 8.00E-02 | 6.94E-02 | 5 - 60 | 6 | 3.2 | A | |
| 974 | 19.01 | J | 28.8 | 70.1 | 5.63E-02 | 5.41E-02 | 5 - 60 | 6 | 4.6 | A | |
| 976 | 19.06 | J | 14.7 | 70.1 | 5.45E-02 | 4.94E-02 | 5 - 80 | 8 | 4.1 | A | |
| 978 | 19.11 | J | 1.9 | 72.3 | 4.78E-02 | 4.13E-02 | 5 - 60 | 6 | 3.9 | A | |
| 980 | 19.16 | C | 322.4 | 65.1 | 6.84E-03 | 4.84E-03 | 10 - 80 | 7 | 8 | A | |
| 982 | 19.22 | J | 348.7 | 63.9 | 1.20E-02 | 1.05E-02 | 5 - 60 | 6 | 5.3 | A | |
| 987 | 19.28 | J | 341.4 | 55.6 | 6.83E-02 | 4.94E-02 | 5 - 60 | 6 | 5.7 | A | |
| 989 | 19.32 | J | 313.4 | 79.5 | 4.68E-03 | 4.78E-03 | 5 - 60 | 6 | 6 | A | |
| 990 | 19.38 | C | 142.1 | 47.2 | 2.76E-03 | 1.65E-03 | 5 - 80 | 8 | 8.4 | A | |
| Slug 16/A | | | | | | | | | | | |
| 552 | 19.52 | C | 229.2 | 65 | 1.21E-01 | 5.31E-02 | 10 - 40 | 4 | 3.2 | A | Cinders |
| 553 | 19.56 | C | 223.1 | 55.2 | 7.97E-02 | 4.94E-02 | 10 - 60 | 5 | 6.3 | A | Cinders |
| 555 | 19.78 | S | 96.7 | 44.4 | 2.81E-03 | 1.20E-03 | 5 - 80 | 8 | 27.1 | C | |
| 556 | 19.84 | C | 131.2 | 65.6 | 3.31E-02 | 1.93E-02 | 3 - 80 | 9 | 6.4 | A | Tephra (Rockland) |
| 563 | 19.88 | C | 51.7 | 68 | 6.19E-02 | 2.56E-02 | 10 - 60 | 5 | 5.9 | A | Tephra (Rockland) |
| 554 | 19.93 | C | 44.8 | 75 | 4.25E-02 | 7.66E-03 | 10 - 60 | 5 | 18.9 | B | Tephra (Rockland) |
| Slug 17/A | | | | | | | | | | | |
| 557 | 20.18 | J | 11.4 | 44.9 | 4.95E-03 | 2.60E-03 | 5 - 60 | 6 | 10.1 | A | |
| 558 | 20.23 | J | 11 | 73 | 7.95E-03 | 4.28E-03 | 5 - 60 | 6 | 5.8 | A | |
| 559 | 20.28 | J | 331.7 | 71.4 | 7.23E-03 | 4.81E-03 | 5 - 60 | 6 | 8.7 | A | |
| 560 | 20.33 | J | 35.5 | 76.7 | 6.73E-03 | 5.59E-03 | 5 - 60 | 6 | 6.6 | A | |
| 561 | 20.38 | J | 308.5 | 55.6 | 5.85E-03 | 5.63E-03 | 5 - 60 | 6 | 5 | A | |

| SAMPLE Box No. (sample volume is 3.2cc) | Depth (meter) | Magneto met | Declination (deg.) Linear fit | Inclination (deg.) Linear fit | NRM A/m | Magnetization removed in demagnetization interval A/m | Demagnetization interval used for linear fit (mT) | No. Pts. used in linear fit | Error Angle | Subjective quality of demagnetization path (A=best C=worst) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 562 | 20.43 | J | 341.7 | 58.5 | 1.10E-02 | 7.81E-03 | 5 - 60 | 6 | 6.8 | A | |
| 625 | 20.50 | J | 80.3 | 87.4 | 4.48E-02 | 3.28E-02 | 5 - 60 | 6 | 6.5 | A | |
| 564 | 20.55 | J | 304 | 63.5 | 5.60E-03 | 4.88E-03 | 5 - 60 | 6 | 5.2 | A | |
| 565 | 20.60 | J | 276.6 | 73.2 | 7.03E-03 | 5.75E-03 | 5 - 60 | 6 | 26.7 | B | |
| 566 | 20.65 | J | 314.7 | 71.3 | 6.15E-03 | 6.25E-03 | 5 - 60 | 6 | 8.3 | A | |
| 567 | 20.70 | J | 298.6 | 63.1 | 5.78E-03 | 4.41E-03 | 5 - 40 | 5 | 9.7 | A | |
| 568 | 20.77 | J | 47.8 | 62.5 | 1.73E-03 | 1.28E-03 | 5 - 40 | 5 | 14.9 | B | Reworked tephra (Dibekulewe) |
| 569 | 20.88 | J | 283.5 | 68.8 | | 3.25E-02 | 10 - 60 | 5 | 5.6 | A | |
| 570 | 20.93 | J | 273.8 | 63 | 7.25E-02 | 5.31E-02 | 10 - 60 | 5 | 7.1 | A | |
| 571 | 20.98 | J | 290.4 | 67 | 9.00E-02 | 8.34E-02 | 5 - 60 | 6 | 4 | A | |
| Slug 18/A | | | | | | | | | | | |
| 572 | 21.07 | J | 177.1 | 46.6 | 9.70E-02 | 8.22E-02 | 5 - 60 | 6 | 5.8 | A | |
| 573 | 21.12 | J | 194.2 | 10.1 | 4.33E-03 | 2.48E-03 | 5 - 60 | 6 | 8.1 | A | |
| 574 | 21.17 | J | 177 | 47.3 | 4.00E-03 | 1.39E-03 | 10 - 60 | 5 | 14.6 | B | |
| 575 | 21.22 | J | 132.6 | 79.4 | 2.00E-03 | 1.33E-03 | 5 - 60 | 6 | 9.9 | A | |
| 576 | 21.27 | J | 178.3 | 74.3 | 4.55E-03 | 3.25E-03 | 5 - 40 | 5 | 19.7 | B | |
| 577 | 21.37 | J | 313.3 | 72.7 | 1.17E-03 | 9.34E-04 | 5 - 60 | 6 | 18.6 | B | |
| 578 | 21.42 | J | 144.2 | 55.2 | 2.50E-03 | 2.18E-03 | 5 - 60 | 6 | 7.7 | A | |
| 579 | 21.47 | J | 155.5 | 56.4 | 1.65E-03 | 1.40E-03 | 5 - 60 | 6 | 12.8 | A | |
| 580 | 21.52 | J | 149.1 | 62.7 | 1.87E-03 | 1.01E-03 | 10 - 60 | 5 | 22.7 | B | |
| 581 | 21.57 | J | 151.1 | 79.1 | 4.98E-03 | 4.66E-03 | 5 - 60 | 6 | 7.3 | B | |
| 582 | 21.62 | J | 231.1 | 51.9 | 3.70E-03 | 2.13E-03 | 5 - 60 | 6 | 14 | B | |
| 583 | 21.67 | J | 248.3 | 11.8 | 8.03E-03 | 5.78E-03 | 5 - 60 | 6 | 3.7 | A | |
| 584 | 21.73 | J | 198.8 | 30 | 2.53E-03 | 1.05E-03 | 5 - 60 | 5 | 11.3 | B | |
| Slug 19/A | | | | | | | | | | | |
| 585 | 21.93 | J | 94.9 | -59.1 | 3.60E-02 | 3.66E-02 | 5 - 60 | 6 | 3 | A | |
| 586 | 21.98 | J | 184.5 | 59.6 | 2.08E-03 | 1.35E-03 | 5 - 60 | 6 | 6.5 | A | |
| 587 | 22.03 | J | 159.7 | 72.3 | 1.22E-03 | 7.19E-04 | 5 - 40 | 5 | 18.3 | B | |
| 588 | 22.08 | J | 161.1 | 40 | 9.30E-04 | 4.09E-04 | 10 - 60 | 5 | 32.5 | B | |
| 589 | 22.13 | J | 194 | 64.6 | 1.13E-03 | 7.59E-04 | 5 - 40 | 5 | 11 | A | |
| 590 | 22.18 | J | 146.3 | 68.7 | 1.27E-03 | 9.44E-04 | 5 - 60 | 6 | 14.7 | B | |
| 591 | 22.23 | J | 142.1 | 71.7 | 3.90E-03 | 2.70E-03 | 5 - 60 | 6 | 6.8 | A | |
| 592 | 22.28 | J | 121.5 | 52.2 | 3.83E-03 | 3.22E-03 | 5 - 60 | 6 | 6.4 | A | Above Lava Creek B |
| 593 | 22.38 | J | 152 | 64.3 | 1.78E-02 | 1.42E-02 | 5 - 60 | 6 | 5.8 | A | Below Lava Creek B |
| 594 | 22.43 | J | 164.8 | 57.6 | 3.08E-02 | 2.32E-02 | 5 - 60 | 6 | 4.3 | A | |
| 595 | 22.48 | J | 165.5 | 54.3 | 9.30E-03 | 5.09E-03 | 5 - 60 | 6 | 8.7 | B | |
| 596 | 22.63 | J | 140.7 | 50.6 | 5.65E-03 | 4.19E-03 | 5 - 60 | 6 | 6.9 | A | |
| 597 | 22.68 | J | 93.5 | 62.1 | 1.15E-02 | 8.72E-03 | 5 - 60 | 6 | 12.7 | B | |
| 598 | 22.73 | J | 84.1 | 72.6 | 3.20E-02 | 2.59E-02 | 5 - 60 | 6 | 9.6 | B | |
| 599 | 22.78 | J | 82.6 | 70.3 | 6.60E-03 | 5.25E-03 | 5 - 60 | 6 | 7.4 | B | |
| 600 | 22.83 | J | 85.8 | 55.8 | 7.90E-03 | 5.88E-03 | 10 - 60 | 5 | 9.2 | B | |
| 601 | 22.88 | J | 62.6 | 55.3 | 4.78E-03 | 2.97E-03 | 10 - 60 | 5 | 12.8 | B | |
| 602 | 22.93 | J | 83.9 | 67.5 | 2.46E-02 | 2.07E-02 | 5 - 60 | 6 | 3.1 | A | |
| 603 | 22.98 | J | 66.8 | 66.7 | 2.06E-02 | 1.87E-02 | 5 - 60 | 6 | 3.5 | A | |
| 604 | 23.03 | J | 53.5 | 65.8 | 1.42E-02 | 1.12E-02 | 5 - 60 | 6 | 5.4 | A | |
| Slug 19/B | | | | | | | | | | | |
| 605 | 23.13 | J | 261.3 | 59.7 | 2.09E-02 | 1.55E-02 | 5 - 60 | 6 | 4.9 | A | |
| 606 | 23.18 | J | 258.1 | 64 | 1.37E-02 | 8.91E-03 | 10 - 60 | 5 | 4.9 | A | |
| 607 | 23.23 | J | 237.1 | 65.4 | 9.10E-03 | 7.44E-03 | 5 - 60 | 6 | 11.4 | B | |
| 608 | 23.28 | J | 280 | 63.8 | 2.03E-02 | 1.58E-02 | 5 - 60 | 6 | 7.9 | A | |
| 609 | 23.33 | J | 263.9 | 54.1 | 9.05E-03 | 4.28E-03 | 10 - 60 | 5 | 9.3 | A | |
| 610 | 23.38 | J | 251.8 | 54 | 1.53E-02 | 9.66E-03 | 10 - 60 | 5 | 7.6 | A | |
| 611 | 23.43 | J | 258.7 | 55.7 | 3.63E-02 | 2.97E-02 | 5 - 60 | 6 | 3.8 | A | |

| SAMPLE Box No. (sample volume is 3.2cc) | Depth (meter) | Magneto met | Declination (deg.) Linear fit | Inclination (deg.) Linear fit | NRM A/m | Magnetization removed in demagnetization interval A/m | Demagnetization interval used for linear fit (mT) | No. Pts. used in linear fit | Error Angle | Subjective quality of demagnetization path (A=best C=worst) | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 612 | 23.48 | J | 268.3 | 71.9 | 3.23E-02 | 2.48E-02 | 5 - 60 | 6 | 3 | A | |
| 613 | 23.53 | J | 272.5 | 66.5 | 1.27E-02 | 9.78E-03 | 5 - 60 | 6 | 2.7 | A | |
| 614 | 23.58 | J | 253.5 | 69 | 4.80E-03 | 3.66E-03 | 5 - 60 | 6 | 8.6 | A | |
| 615 | 23.63 | J | 246.8 | 69.1 | 2.93E-02 | 2.78E-02 | 5 - 60 | 6 | 2.1 | A | |
| 616 | 23.68 | J | 254.1 | 12.7 | 3.48E-02 | 1.06E-02 | 20 - 60 | 4 | 6.8 | B | |
| 617 | 23.73 | J | 250 | 51.1 | 1.67E-02 | 5.13E-03 | 10 - 60 | 5 | 4.2 | A | |
| 618 | 23.78 | J | 275.1 | 58.9 | 1.46E-02 | 9.47E-03 | 5 - 60 | 6 | 5.2 | A | |
| 619 | 23.83 | J | 253.9 | 65.4 | 2.40E-02 | 1.38E-02 | 10 - 60 | 5 | 3.2 | A | |
| 620 | 23.88 | J | 255.1 | 58.2 | 1.16E-02 | 5.53E-03 | 10 - 60 | 5 | 8.3 | A | |
| 621 | 23.93 | J | 264.2 | 71.6 | 1.05E-02 | 5.78E-03 | 10 - 60 | 5 | 9.4 | A | |
| 622 | 23.98 | J | 267.8 | 75.8 | 3.43E-02 | 1.70E-02 | 10 - 60 | 5 | 2.6 | A | |
| 623 | 24.03 | J | 284.9 | 27.3 | 8.28E-02 | 1.46E-02 | 20 - 60 | 4 | 12 | B | |
| 624 | 24.08 | J | 61.2 | 70.1 | 7.08E-02 | 3.97E-02 | 10 - 60 | 5 | 7.9 | A | |

## TABLE 3. Sediment Magnetic Data

**Sample Box No:** A unique number assigned to paleomagnetic samples that are placed in plastic boxes.

**Depth:** Depth in hole as in Table 1.

**MS:** Magnetic susceptibility (SI volume) measured at about 600 hertz.

**FD of MS:** Frequency dependence of magnetic susceptibility.

**NRM:** Magnitude of natural remanent magnetization.

**ARM:** Magnitude of anhysteretic remanent magnetization.

**IRM 1.2T:** Isothermal remanent magnetization acquired in an induction of 1.2 T.

**IRM -0.3T:** Isothermal remanent magnetization after exposure to an induction of 1.2 T followed by exposure to an oppositely directed induction of 0.3 T.

**HIRM:** "Hard" isothermal remanent magnetization = $(IRM_{1.2T} - IRM_{-0.3T})/2$.

**S:** The "S-parameter" = $-IRM_{1.2T}/IRM_{-0.3T}$.

| Sample Box No. | Depth (meter) | MS vol-SI (low freq.) | FD of MS % | NRM A/m | ARM A/m | IRM 1.2T A/m | IRM -0.3T A/m | HIRM A/m | S | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| Slug 9/A | | | | | | | | | | |
| 500 | 5.31 | 2.33E-04 | 7.4 | 6.38E-03 | 1.64E-01 | 5.50E+00 | -3.42E+00 | 1.04E+00 | 0.62 | |
| 501 | 5.41 | 1.12E-04 | 9.4 | 3.06E-03 | 7.56E-02 | 1.99E+00 | -1.24E+00 | 3.78E-01 | 0.62 | |
| 502 | 5.46 | 9.58E-05 | 6.0 | 2.69E-03 | 8.84E-02 | 2.02E+00 | -1.20E+00 | 4.10E-01 | 0.59 | |
| 503 | 5.51 | 8.19E-05 | 7.3 | 2.85E-03 | 7.88E-02 | 1.78E+00 | -1.05E+00 | 3.61E-01 | 0.59 | |
| 522 | 5.56 | 7.69E-05 | 3.4 | 2.74E-03 | 7.50E-02 | 1.76E+00 | -1.04E+00 | 3.63E-01 | 0.59 | |
| 523 | 5.61 | 7.43E-05 | 3.3 | 1.77E-03 | 6.78E-02 | 1.68E+00 | -9.88E-01 | 3.46E-01 | 0.59 | |
| 524 | 5.66 | 7.40E-05 | 3.7 | 2.28E-03 | 6.97E-02 | 1.71E+00 | -1.01E+00 | 3.51E-01 | 0.59 | |
| 512 | 5.71 | 7.32E-05 | 4.8 | 2.96E-03 | 6.91E-02 | 1.67E+00 | -9.78E-01 | 3.47E-01 | 0.58 | |
| 511 | 5.76 | 6.90E-05 | 5.0 | 1.14E-03 | 6.88E-02 | 1.59E+00 | -9.15E-01 | 3.40E-01 | 0.57 | |
| 510 | 5.81 | 7.61E-05 | 5.0 | 1.60E-03 | 7.09E-02 | 1.75E+00 | -9.70E-01 | 3.90E-01 | 0.55 | |
| 509 | 5.86 | 8.43E-05 | 4.7 | 2.75E-03 | 7.59E-02 | 1.93E+00 | -1.15E+00 | 3.89E-01 | 0.60 | |
| 508 | 5.91 | 7.77E-05 | 6.0 | 3.00E-03 | 7.31E-02 | 1.80E+00 | -1.07E+00 | 3.64E-01 | 0.60 | |
| 507 | 5.96 | 8.40E-05 | 6.7 | 2.63E-03 | 7.53E-02 | 1.82E+00 | -1.08E+00 | 3.72E-01 | 0.59 | |
| 506 | 6.01 | 8.46E-05 | 7.1 | 2.59E-03 | 7.63E-02 | 1.87E+00 | -1.12E+00 | 3.78E-01 | 0.60 | |
| 505 | 6.06 | 7.89E-05 | 5.0 | 1.83E-03 | 7.13E-02 | 1.80E+00 | -1.03E+00 | 3.83E-01 | 0.57 | |
| 504 | 6.11 | 8.29E-05 | 7.7 | 2.26E-03 | 7.63E-02 | 1.86E+00 | -1.11E+00 | 3.73E-01 | 0.60 | |
| 513 | 6.16 | 9.15E-05 | 3.8 | 2.54E-03 | 8.22E-02 | 2.07E+00 | -1.21E+00 | 4.30E-01 | 0.58 | |
| 514 | 6.21 | 9.68E-05 | 5.0 | 3.44E-03 | 8.75E-02 | 2.13E+00 | -1.25E+00 | 4.37E-01 | 0.59 | |
| 515 | 6.26 | 8.94E-05 | 5.8 | 3.41E-03 | 8.34E-02 | 1.98E+00 | -1.15E+00 | 4.19E-01 | 0.58 | |
| 516 | 6.31 | 9.96E-05 | 5.2 | 3.13E-03 | 9.00E-02 | 2.23E+00 | -1.31E+00 | 4.60E-01 | 0.59 | |
| 517 | 6.36 | 1.03E-04 | 5.4 | 2.56E-03 | 9.34E-02 | 2.29E+00 | -1.36E+00 | 4.64E-01 | 0.59 | |
| 518 | 6.41 | 9.82E-05 | 5.0 | 2.34E-03 | 9.06E-02 | 2.19E+00 | -1.29E+00 | 4.52E-01 | 0.59 | |
| 519 | 6.47 | 9.57E-05 | 3.5 | 2.10E-03 | 8.56E-02 | 2.11E+00 | -1.24E+00 | 4.33E-01 | 0.59 | |
| 520 | 6.51 | 1.05E-04 | 4.1 | 2.06E-03 | 9.22E-02 | 2.33E+00 | -1.37E+00 | 4.81E-01 | 0.59 | |
| 521 | 6.57 | 1.04E-04 | 4.5 | 2.67E-03 | 9.00E-02 | 2.30E+00 | -1.36E+00 | 4.74E-01 | 0.59 | |
| Slug 10/A | | | | | | | | | | |
| 525 | 6.71 | 2.08E-04 | 6.6 | 2.47E-03 | 9.63E-02 | 2.54E+00 | -1.49E+00 | 5.25E-01 | 0.59 | |
| 526 | 6.77 | 2.17E-04 | 5.5 | 5.53E-03 | 1.03E-01 | 2.66E+00 | -1.56E+00 | 5.51E-01 | 0.59 | |
| 527 | 6.82 | 2.21E-04 | 5.4 | 3.75E-03 | 9.81E-02 | 2.66E+00 | -1.56E+00 | 5.49E-01 | 0.59 | |
| 528 | 6.87 | 1.64E-04 | 6.4 | 3.19E-03 | 1.13E-01 | 3.02E+00 | -1.80E+00 | 6.11E-01 | 0.59 | |
| 529 | 6.92 | 1.45E-04 | 7.2 | 3.02E-03 | 1.08E-01 | 2.83E+00 | -1.68E+00 | 5.75E-01 | 0.59 | |
| 530 | 6.96 | 1.56E-04 | 6.5 | 3.78E-03 | 1.16E-01 | 3.04E+00 | -1.77E+00 | 6.35E-01 | 0.58 | |
| 531 | 7.05 | 1.68E-04 | 6.0 | 4.16E-03 | 1.20E-01 | 3.12E+00 | -1.84E+00 | 6.44E-01 | 0.59 | |
| 532 | 7.11 | 1.97E-04 | 6.9 | 4.66E-03 | 1.16E-01 | 3.06E+00 | -1.81E+00 | 6.26E-01 | 0.59 | |
| 533 | 7.20 | 1.92E-04 | 6.2 | 3.50E-03 | 1.17E-01 | 2.94E+00 | -1.65E+00 | 6.43E-01 | 0.56 | |
| 534 | 7.26 | 2.02E-04 | 6.1 | 3.02E-03 | 1.10E-01 | 2.94E+00 | -1.71E+00 | 6.14E-01 | 0.58 | |
| 535 | 7.31 | 1.96E-04 | 6.0 | 2.87E-03 | 1.08E-01 | 2.90E+00 | -1.70E+00 | 5.99E-01 | 0.59 | |
| 536 | 7.36 | 1.84E-04 | 5.8 | 3.69E-03 | 1.08E-01 | 2.89E+00 | -1.67E+00 | 6.12E-01 | 0.58 | |
| 537 | 7.41 | 1.82E-04 | 5.5 | 5.47E-03 | 1.14E-01 | 2.98E+00 | -1.71E+00 | 6.36E-01 | 0.57 | |
| 538 | 7.46 | 1.67E-04 | 6.3 | 4.63E-03 | 1.11E-01 | 2.96E+00 | -1.77E+00 | 5.91E-01 | 0.60 | |
| 539 | 7.52 | 1.86E-04 | 6.3 | 6.69E-03 | 1.11E-01 | 3.05E+00 | -1.80E+00 | 6.20E-01 | 0.59 | |
| 540 | 7.57 | 1.73E-04 | 7.0 | 5.50E-03 | 1.13E-01 | 2.98E+00 | -1.78E+00 | 6.04E-01 | 0.60 | |
| 541 | 7.62 | 1.84E-04 | 5.8 | 2.45E-03 | 1.15E-01 | 3.09E+00 | -1.85E+00 | 6.19E-01 | 0.60 | |
| 542 | 7.67 | 1.73E-04 | 5.4 | 3.00E-03 | 1.09E-01 | 2.97E+00 | -1.78E+00 | 5.94E-01 | 0.60 | |
| 543 | 7.71 | 1.94E-04 | 6.1 | 9.44E-03 | 1.22E-01 | 3.23E+00 | -1.93E+00 | 6.50E-01 | 0.60 | |
| 544 | 7.78 | 2.91E-04 | 6.2 | 3.91E-03 | 1.53E-01 | 3.57E+00 | -2.32E+00 | 6.28E-01 | 0.65 | Disturbed |
| 545 | 7.83 | 2.27E-04 | 5.6 | 2.65E-03 | 1.22E-01 | 3.20E+00 | -1.87E+00 | 6.66E-01 | 0.58 | Disturbed |
| 546 | 7.88 | 1.94E-04 | 4.6 | 2.62E-03 | 9.66E-02 | 2.67E+00 | -1.77E+00 | 4.50E-01 | 0.66 | Disturbed |
| 547 | 7.92 | 1.83E-04 | 5.1 | 1.99E-03 | 1.16E-01 | 2.98E+00 | -1.80E+00 | 5.85E-01 | 0.61 | Disturbed |
| 548 | 7.97 | 1.88E-04 | 4.6 | 3.03E-03 | 1.03E-01 | 2.72E+00 | -1.62E+00 | 5.47E-01 | 0.60 | Disturbed |
| 549 | 8.01 | 1.89E-04 | 3.7 | 1.69E-03 | 9.63E-02 | 2.34E+00 | -1.36E+00 | 4.90E-01 | 0.58 | Disturbed |
| 550 | 8.07 | 1.79E-04 | 3.7 | 2.45E-03 | 9.50E-02 | 2.32E+00 | -1.34E+00 | 4.87E-01 | 0.58 | Disturbed |
| 551 | 8.13 | 1.41E-04 | 3.3 | 5.03E-03 | 9.03E-02 | 2.19E+00 | -1.28E+00 | 4.56E-01 | 0.58 | Disturbed |

| Sample Box No. | Depth (meter) | MS vol-SI (low freq.) | FD of MS % | NRM A/m | ARM A/m | IRM 1.2T A/m | IRM -0.3T A/m | HIRM A/m | S | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| Slug 10/B | | | | | | | | | | |
| 800 | 8.20 | 9.76E-05 | 4.0 | 4.69E-03 | 9.03E-02 | 2.15E+00 | -1.28E+00 | 4.34E-01 | 0.60 | |
| 802 | 8.25 | 1.01E-04 | 5.1 | 1.17E-03 | 5.37E-02 | 2.19E+00 | -1.21E+00 | 4.93E-01 | 0.55 | |
| 804 | 8.29 | 1.04E-04 | 5.8 | 1.58E-03 | 5.48E-02 | 2.30E+00 | -1.28E+00 | 5.06E-01 | 0.56 | |
| 806 | 8.34 | 9.39E-05 | 3.4 | 1.61E-03 | 5.08E-02 | 2.09E+00 | -1.16E+00 | 4.67E-01 | 0.55 | |
| 806 | 8.39 | 9.76E-05 | 4.8 | 1.41E-03 | 5.32E-02 | 2.20E+00 | -1.23E+00 | 4.85E-01 | 0.56 | |
| 810 | 8.45 | 1.01E-04 | 4.7 | 2.66E-03 | 9.31E-02 | 2.25E+00 | -1.32E+00 | 4.65E-01 | 0.59 | |
| 812 | 8.49 | 1.03E-04 | 4.4 | 2.24E-03 | 5.70E-02 | 2.35E+00 | -1.29E+00 | 5.29E-01 | 0.55 | |
| 814 | 8.54 | 1.04E-04 | 4.5 | 2.51E-03 | 5.88E-02 | 2.45E+00 | -1.36E+00 | 5.46E-01 | 0.55 | |
| 816 | 8.59 | 1.01E-04 | 4.8 | 2.25E-03 | 5.55E-02 | 2.32E+00 | -1.28E+00 | 5.19E-01 | 0.55 | |
| 818 | 8.64 | 1.03E-04 | 4.3 | 1.63E-03 | 5.70E-02 | 2.39E+00 | -1.34E+00 | 5.25E-01 | 0.56 | |
| 820 | 8.69 | 1.11E-04 | 3.5 | 2.40E-03 | 5.88E-02 | 2.55E+00 | -1.45E+00 | 5.51E-01 | 0.57 | |
| 821 | 8.74 | 1.05E-04 | 4.2 | 2.01E-03 | 5.50E-02 | 2.37E+00 | -1.37E+00 | 4.99E-01 | 0.58 | |
| 811 | 8.80 | 1.01E-04 | 3.5 | 2.53E-03 | 5.85E-02 | 2.32E+00 | -1.29E+00 | 5.15E-01 | 0.56 | |
| 813 | 8.86 | 1.01E-04 | 5.5 | 1.78E-03 | 5.58E-02 | 2.29E+00 | -1.30E+00 | 4.94E-01 | 0.57 | |
| 815 | 8.91 | 1.06E-04 | 2.4 | 2.13E-03 | 9.91E-02 | 2.36E+00 | -1.44E+00 | 4.62E-01 | 0.61 | |
| 817 | 8.96 | 9.53E-05 | 4.8 | 1.45E-03 | 5.37E-02 | 2.11E+00 | -1.20E+00 | 4.56E-01 | 0.57 | |
| 819 | 9.01 | 1.06E-04 | 5.4 | 1.58E-03 | 5.50E-02 | 2.25E+00 | -1.37E+00 | 4.41E-01 | 0.61 | |
| 809 | 9.09 | 9.89E-05 | 6.2 | 1.84E-03 | 4.96E-02 | 2.05E+00 | -1.23E+00 | 4.09E-01 | 0.60 | |
| 807 | 9.16 | 1.11E-04 | 4.9 | 1.88E-03 | 5.58E-02 | 2.34E+00 | -1.40E+00 | 4.73E-01 | 0.60 | |
| 805 | 9.21 | 1.02E-04 | 4.2 | 2.61E-03 | 5.23E-02 | 2.21E+00 | -1.31E+00 | 4.51E-01 | 0.59 | |
| 803 | 9.27 | 9.52E-05 | 7.8 | 1.00E-03 | 4.95E-02 | 2.12E+00 | -1.23E+00 | 4.43E-01 | 0.58 | |
| 801 | 9.37 | 9.67E-05 | 4.1 | 2.41E-03 | 5.03E-02 | 2.07E+00 | -1.23E+00 | 4.22E-01 | 0.59 | |
| Slug 11/A | | | | | | | | | | |
| 822 | 9.47 | 6.23E-05 | -4.7 | 2.88E-03 | 2.75E-02 | 1.27E+00 | -7.97E-01 | 2.34E-01 | 0.63 | |
| 824 | 9.52 | 8.23E-05 | -2.2 | | | | | | | Tephra (Loleta) |
| 826 | 9.57 | 8.01E-05 | 1.4 | 2.48E-03 | 4.12E-02 | 1.75E+00 | -1.06E+00 | 3.46E-01 | 0.60 | |
| 827 | 9.66 | 8.67E-05 | -1.0 | 2.34E-03 | 4.04E-02 | 1.90E+00 | -1.20E+00 | 3.50E-01 | 0.63 | |
| 829 | 9.71 | 6.68E-05 | 1.4 | 1.99E-03 | 3.09E-02 | 1.50E+00 | -9.50E-01 | 2.72E-01 | 0.64 | |
| 830 | 9.76 | 5.22E-05 | -2.2 | 1.08E-03 | 4.50E-02 | 1.21E+00 | -7.80E-01 | 2.15E-01 | 0.64 | |
| 832 | 9.81 | 4.06E-05 | -3.2 | 1.33E-03 | 2.19E-02 | 1.00E+00 | -6.38E-01 | 1.81E-01 | 0.64 | |
| 834 | 9.85 | 5.45E-05 | -1.6 | 1.77E-03 | 2.92E-02 | 1.31E+00 | -8.23E-01 | 2.43E-01 | 0.63 | |
| 836 | 9.91 | 6.08E-05 | -1.4 | 2.27E-03 | 3.07E-02 | 1.33E+00 | -8.13E-01 | 2.60E-01 | 0.61 | |
| 838 | 9.96 | 9.13E-05 | 1.2 | 3.94E-03 | 4.23E-02 | 1.93E+00 | -1.22E+00 | 3.54E-01 | 0.63 | |
| 840 | 10.04 | 1.31E-04 | 2.6 | 5.09E-03 | 6.45E-02 | 2.75E+00 | -1.62E+00 | 5.69E-01 | 0.59 | |
| 842 | 10.10 | 1.49E-04 | 1.7 | 6.03E-03 | 7.75E-02 | 3.30E+00 | -1.87E+00 | 7.13E-01 | 0.57 | |
| 823 | 10.16 | 1.67E-04 | 0.9 | 7.59E-03 | 8.33E-02 | 3.58E+00 | -2.04E+00 | 7.69E-01 | 0.57 | |
| 825 | 10.21 | 1.80E-04 | 1.3 | 8.09E-03 | 1.46E-01 | 3.74E+00 | -2.31E+00 | 7.15E-01 | 0.62 | |
| 828 | 10.27 | 3.29E-04 | 3.2 | 9.97E-03 | 1.11E-01 | 5.95E+00 | -3.85E+00 | 1.05E+00 | 0.65 | |
| 631 | 10.32 | 4.58E-04 | 5.5 | 1.63E-02 | 1.58E-01 | 6.80E+00 | -4.49E+00 | 1.16E+00 | 0.66 | |
| 833 | 10.36 | 2.27E-04 | 1.9 | 6.38E-03 | 9.88E-02 | 4.36E+00 | -2.51E+00 | 9.25E-01 | 0.58 | |
| 835 | 10.41 | 2.78E-04 | 4.7 | 8.94E-03 | 9.98E-02 | 4.17E+00 | -2.45E+00 | 8.60E-01 | 0.59 | |
| 837 | 10.46 | 5.23E-04 | 7.6 | 1.01E-02 | 1.52E-01 | 5.48E+00 | -3.52E+00 | 9.76E-01 | 0.64 | |
| 839 | 10.51 | 3.34E-04 | 5.3 | 7.84E-03 | 1.14E-01 | 4.49E+00 | -2.63E+00 | 9.34E-01 | 0.58 | |
| 841 | 10.57 | 6.08E-04 | 8.5 | 6.84E-03 | 1.95E-01 | 5.90E+00 | -3.90E+00 | 9.99E-01 | 0.66 | |
| 843 | 10.61 | 1.15E-03 | 9.0 | 2.37E-02 | 5.23E-01 | 1.03E+01 | -7.95E+00 | 1.16E+00 | 0.77 | |
| 844 | 10.66 | 6.75E-04 | 8.1 | 1.11E-02 | 2.15E-01 | 6.47E+00 | -4.31E+00 | 1.08E+00 | 0.67 | |
| 845 | 10.72 | 1.70E-03 | 8.6 | 3.91E-02 | 1.00E+00 | 1.55E+01 | -1.32E+01 | 1.16E+00 | 0.85 | |
| 846 | 10.76 | 4.55E-03 | 6.9 | 1.13E-01 | 3.07E+00 | 5.10E+01 | -4.63E+01 | 1.37E+00 | 0.95 | |
| Slug 11/B | | | | | | | | | | |
| 847 | 10.79 | 1.60E-03 | 7.0 | 5.28E-02 | 1.08E+00 | 1.88E+01 | -1.59E+01 | 1.41E+00 | 0.85 | |
| 849 | 10.85 | 6.60E-04 | 8.6 | 1.59E-02 | 2.32E-01 | 7.58E+00 | -5.15E+00 | 1.21E+00 | 0.68 | |
| 851 | 10.91 | 3.34E-03 | 6.4 | 1.16E-01 | 2.41E+00 | 3.77E+01 | -3.46E+01 | 1.52E+00 | 0.92 | |
| 853 | 10.95 | 3.15E-03 | 7.3 | 1.06E-01 | 2.27E+00 | 3.58E+01 | -3.30E+01 | 1.41E+00 | 0.92 | |

| Sample Box No. | Depth (meter) | MS vol-SI (low freq.) | FD of MS % | NRM A/m | ARM A/m | IRM 1.2T A/m | IRM -0.3T A/m | HIRM A/m | S | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 855 | 11.00 | 2.14E-03 | 7.9 | 6.63E-02 | 1.53E+00 | 2.17E+01 | -1.94E+01 | 1.13E+00 | 0.90 | |
| 857 | 11.05 | 2.43E-03 | 7.2 | 8.00E-02 | 1.63E+00 | 2.59E+01 | -2.32E+01 | 1.35E+00 | 0.90 | |
| 859 | 11.10 | 1.53E-03 | 7.6 | 5.25E-02 | 8.88E-01 | 1.69E+01 | -1.41E+01 | 1.42E+00 | 0.83 | |
| 861 | 11.14 | 2.53E-03 | 8.3 | 7.75E-02 | 1.50E+00 | 2.33E+01 | -2.06E+01 | 1.34E+00 | 0.89 | |
| 848 | 11.21 | 7.52E-04 | 9.6 | 1.69E-02 | 2.80E-01 | 7.88E+00 | -5.35E+00 | 1.26E+00 | 0.68 | |
| 850 | 11.26 | 1.14E-03 | 9.1 | 1.89E-02 | 5.00E-01 | 1.03E+01 | -8.33E+00 | 1.00E+00 | 0.81 | |
| 852 | 11.31 | 9.54E-04 | 9.3 | 1.66E-02 | 3.61E-01 | 8.73E+00 | -6.58E+00 | 1.08E+00 | 0.75 | |
| 854 | 11.36 | 4.85E-04 | 8.5 | 1.14E-02 | 1.62E-01 | 5.42E+00 | -3.79E+00 | 8.19E-01 | 0.70 | |
| 856 | 11.41 | 5.03E-04 | 9.0 | 1.22E-02 | 1.78E-01 | 5.33E+00 | -3.85E+00 | 7.40E-01 | 0.72 | |
| 858 | 11.49 | 1.15E-04 | 6.8 | 2.67E-03 | 4.90E-02 | 1.90E+00 | -1.19E+00 | 3.56E-01 | 0.63 | |
| 860 | 11.54 | 2.89E-04 | 7.8 | 6.88E-03 | 1.02E-01 | 3.37E+00 | -2.28E+00 | 5.47E-01 | 0.68 | |
| 862 | 11.59 | 1.08E-03 | 8.0 | 2.07E-02 | 4.93E-01 | 1.05E+01 | -8.63E+00 | 9.50E-01 | 0.82 | |
| Slug 12/A | | | | | | | | | | |
| 863 | 11.59 | 1.12E-03 | 8.1 | 2.32E-02 | 4.80E-01 | 1.08E+01 | -8.83E+00 | 1.01E+00 | 0.81 | |
| 865 | 11.64 | 1.39E-03 | 7.2 | 3.31E-02 | 6.40E-01 | 1.38E+01 | -1.18E+01 | 1.02E+00 | 0.85 | |
| 867 | 11.69 | 9.55E-04 | 7.2 | 2.11E-02 | 4.51E-01 | 1.02E+01 | -8.43E+00 | 8.75E-01 | 0.83 | |
| 869 | 11.74 | 1.76E-03 | 6.9 | 3.75E-02 | 1.03E+00 | 1.90E+01 | -1.65E+01 | 1.25E+00 | 0.87 | |
| 871 | 11.79 | 1.05E-03 | 9.1 | 1.48E-02 | 4.15E-01 | 9.60E+00 | -7.55E+00 | 1.03E+00 | 0.79 | |
| 873 | 11.84 | 1.18E-03 | 6.9 | 1.90E-02 | 6.30E-01 | 1.27E+01 | -1.04E+01 | 1.17E+00 | 0.82 | |
| 875 | 11.89 | 8.22E-04 | 7.4 | 1.20E-02 | 3.40E-01 | 9.78E+00 | -7.13E+00 | 1.32E+00 | 0.73 | |
| 877 | 11.94 | 7.36E-04 | 7.9 | 1.42E-02 | 2.58E-01 | 9.60E+00 | -7.03E+00 | 1.29E+00 | 0.73 | |
| 879 | 11.99 | 3.05E-04 | 7.0 | 4.63E-03 | 1.11E-01 | 4.15E+00 | -2.80E+00 | 6.76E-01 | 0.67 | |
| 881 | 12.04 | 2.64E-04 | 6.0 | 4.66E-03 | 9.70E-02 | 3.60E+00 | -2.50E+00 | 5.51E-01 | 0.69 | |
| 883 | 12.08 | 1.08E-03 | 7.8 | 1.38E-02 | 4.94E-01 | 1.12E+01 | -9.00E+00 | 1.10E+00 | 0.80 | |
| 885 | 12.13 | 3.61E-04 | 7.1 | 8.53E-03 | 1.82E-01 | 4.71E+00 | -3.67E+00 | 5.19E-01 | 0.78 | |
| 887 | 12.19 | 1.45E-04 | 6.0 | 3.09E-03 | 6.88E-02 | 2.24E+00 | -1.54E+00 | 3.50E-01 | 0.69 | |
| 864 | 12.23 | 4.94E-03 | 6.1 | 1.58E-01 | 1.62E+00 | 2.67E+02 | -2.24E+02 | 2.14E+01 | 0.84 | Black tephra |
| 866 | 12.30 | 4.84E-04 | 8.6 | 1.19E-02 | 1.68E-01 | 6.28E+00 | -4.16E+00 | 1.08E+00 | 0.66 | |
| 868 | 12.35 | 9.01E-04 | 8.4 | 1.95E-02 | 3.07E-01 | 8.00E+00 | -6.18E+00 | 9.13E-01 | 0.77 | |
| 870 | 12.40 | 5.81E-04 | 8.3 | 1.14E-02 | 1.82E-01 | 5.95E+00 | -4.10E+00 | 9.26E-01 | 0.69 | |
| 872 | 12.45 | 6.56E-04 | 8.4 | 1.08E-02 | 2.97E-01 | 6.68E+00 | -5.20E+00 | 7.37E-01 | 0.78 | |
| 874 | 12.50 | 5.99E-04 | 7.2 | 2.05E-02 | 2.16E-01 | 8.83E+00 | -6.75E+00 | 1.04E+00 | 0.76 | Tephra |
| 876 | 12.56 | 3.53E-04 | 7.3 | 7.78E-03 | 1.35E-01 | 4.38E+00 | -2.98E+00 | 6.99E-01 | 0.68 | |
| 878 | 12.61 | 4.68E-04 | 7.6 | 1.45E-02 | 2.03E-01 | 5.30E+00 | -4.01E+00 | 6.45E-01 | 0.76 | |
| 880 | 12.66 | 3.23E-04 | 7.0 | 9.34E-03 | 1.90E-01 | 4.24E+00 | -3.18E+00 | 5.34E-01 | 0.75 | |
| 882 | 12.73 | 2.83E-04 | 6.6 | 3.97E-03 | 1.19E-01 | 3.38E+00 | -2.43E+00 | 4.74E-01 | 0.72 | |
| 884 | 12.78 | 1.13E-03 | 7.0 | 2.61E-02 | 6.25E-01 | 1.18E+01 | -9.98E+00 | 9.12E-01 | 0.85 | |
| 886 | 12.84 | 1.58E-03 | 6.3 | 2.08E-02 | 9.30E-01 | 1.69E+01 | -1.47E+01 | 1.09E+00 | 0.87 | |
| 888 | 12.89 | 2.25E-03 | 5.8 | 5.78E-02 | 1.52E+00 | 2.55E+01 | -2.37E+01 | 9.00E-01 | 0.93 | |
| 889 | 12.94 | 1.94E-03 | 5.9 | 5.25E-02 | 1.26E+00 | 2.12E+01 | -1.92E+01 | 1.04E+00 | 0.90 | |
| Slug 12/B | | | | | | | | | | |
| 890 | 13.02 | 1.12E-03 | 6.7 | 2.85E-02 | 6.38E-01 | 1.17E+01 | -9.98E+00 | 8.62E-01 | 0.85 | |
| 893 | 13.07 | 2.51E-03 | 5.8 | 5.44E-02 | 1.66E+00 | 3.11E+01 | -2.83E+01 | 1.37E+00 | 0.91 | |
| 895 | 13.12 | 1.71E-03 | 5.8 | 5.19E-02 | 1.29E+00 | 2.09E+01 | -1.90E+01 | 9.37E-01 | 0.91 | |
| 897 | 13.18 | 1.52E-03 | 6.4 | 5.22E-02 | 9.98E-01 | 1.86E+01 | -1.64E+01 | 1.10E+00 | 0.88 | |
| 899 | 13.23 | 1.29E-03 | 6.2 | 3.91E-02 | 8.73E-01 | 1.62E+01 | -1.40E+01 | 1.07E+00 | 0.87 | |
| 901 | 13.27 | 1.69E-03 | 6.5 | 3.69E-02 | 8.88E-01 | 1.82E+01 | -1.55E+01 | 1.35E+00 | 0.85 | |
| 903 | 13.32 | 1.64E-03 | 6.2 | 5.59E-02 | 1.04E+00 | 1.94E+01 | -1.68E+01 | 1.29E+00 | 0.87 | |
| 905 | 13.37 | 1.34E-03 | 7.2 | 4.62E-02 | 7.78E-01 | 1.79E+01 | -1.47E+01 | 1.63E+00 | 0.82 | |
| 907 | 13.42 | 1.32E-03 | 7.3 | 5.16E-02 | 7.43E-01 | 1.82E+01 | -1.43E+01 | 1.94E+00 | 0.79 | |
| 909 | 13.56 | 1.66E-03 | 7.6 | 3.03E-02 | 9.53E-01 | 2.61E+01 | -2.04E+01 | 2.85E+00 | 0.78 | Disturbed, Tephra (?) |
| 891 | 13.72 | 1.36E-03 | 6.9 | 4.37E-02 | 6.35E-01 | 1.45E+01 | -1.21E+01 | 1.22E+00 | 0.83 | |
| 892 | 13.77 | 7.52E-04 | 6.7 | 1.86E-02 | 4.38E-01 | 9.38E+00 | -7.77E+00 | 8.00E-01 | 0.83 | |
| 894 | 13.82 | 9.67E-04 | 7.0 | 3.08E-02 | 4.36E-01 | 1.11E+01 | -9.05E+00 | 1.01E+00 | 0.82 | |

| Sample Box No. | Depth (meter) | MS vol-SI (low freq.) | FD of MS % | NRM A/m | ARM A/m | IRM 1.2T A/m | IRM -0.3T A/m | HIRM A/m | S | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 896 | 13.87 | 1.60E-03 | 7.0 | 3.22E-02 | 8.43E-01 | 1.74E+01 | -1.49E+01 | 1.26E+00 | 0.85 | |
| 896 | 13.92 | 7.04E-04 | 7.6 | 1.79E-02 | 2.66E-01 | 8.83E+00 | -6.47E+00 | 1.18E+00 | 0.73 | |
| 900 | 13.98 | 1.36E-04 | 6.2 | 1.90E-03 | 9.41E-02 | 2.02E+00 | -1.44E+00 | 2.94E-01 | 0.71 | |
| 902 | 14.03 | 7.18E-04 | 6.0 | 1.50E-02 | 3.45E-01 | 8.45E+00 | -6.90E+00 | 7.75E-01 | 0.82 | |
| 904 | 14.07 | 1.75E-03 | 7.0 | 4.59E-02 | 9.73E-01 | 1.91E+01 | -1.65E+01 | 1.30E+00 | 0.86 | |
| 906 | 14.12 | 4.82E-03 | 5.2 | 8.00E-02 | 2.84E+00 | 6.10E+01 | -5.78E+01 | 1.82E+00 | 0.95 | |
| 908 | 14.17 | 3.69E-03 | 6.4 | 1.12E-01 | 2.35E+00 | 4.94E+01 | -4.63E+01 | 1.54E+00 | 0.94 | |
| 910 | 14.23 | 4.34E-03 | 6.1 | 1.40E-01 | 2.89E+00 | 5.30E+01 | -4.98E+01 | 1.61E+00 | 0.94 | |
| 911 | 14.28 | 3.05E-03 | 6.9 | 1.08E-01 | 1.87E+00 | 3.78E+01 | -3.45E+01 | 1.67E+00 | 0.91 | |
| 912 | 14.33 | 2.65E-04 | 6.2 | 3.53E-03 | 1.03E-01 | 4.60E+00 | -3.21E+00 | 6.98E-01 | 0.70 | |
| Slug 13/A | | | | | | | | | | |
| 913 | 14.42 | 5.56E-04 | 8.2 | 1.16E-02 | 2.04E-01 | 6.42E+00 | -4.43E+00 | 1.00E+00 | 0.69 | |
| 915 | 14.47 | 9.60E-04 | 9.4 | 1.75E-02 | 4.18E-01 | 9.38E+00 | -6.80E+00 | 1.29E+00 | 0.73 | |
| 917 | 14.52 | 1.17E-03 | 8.0 | 3.34E-02 | 6.75E-01 | 1.24E+01 | -1.01E+01 | 1.19E+00 | 0.81 | |
| 919 | 14.57 | 1.55E-04 | 4.7 | 5.63E-03 | 7.45E-02 | 3.08E+00 | -1.74E+00 | 6.72E-01 | 0.56 | |
| 921 | 14.61 | 9.06E-05 | 2.7 | 2.67E-03 | 4.75E-02 | 1.96E+00 | -1.14E+00 | 4.11E-01 | 0.58 | |
| 923 | 14.69 | 1.53E-04 | 4.1 | 3.75E-03 | 5.30E-02 | 2.38E+00 | -1.53E+00 | 4.29E-01 | 0.64 | |
| 925 | 14.73 | 9.39E-05 | 3.4 | 2.51E-03 | 5.05E-02 | 2.15E+00 | -1.31E+00 | 4.20E-01 | 0.61 | |
| 927 | 14.77 | 9.48E-05 | 3.9 | 4.70E-03 | 5.65E-02 | 2.30E+00 | -1.30E+00 | 5.01E-01 | 0.56 | |
| 929 | 14.82 | 4.75E-05 | -0.5 | 1.87E-03 | 2.87E-02 | 1.23E+00 | -7.15E-01 | 2.59E-01 | 0.58 | |
| 931 | 14.89 | 5.08E-05 | -2.2 | 1.17E-03 | 2.87E-02 | 1.31E+00 | -7.40E-01 | 2.85E-01 | 0.56 | |
| 914 | 14.94 | 8.51E-04 | 5.9 | 2.26E-02 | 2.99E-01 | 1.91E+01 | -1.64E+01 | 1.35E+00 | 0.86 | Disturbed, Tephra |
| 916 | 15.00 | 5.23E-05 | 1.6 | 1.24E-03 | 3.23E-02 | 1.31E+00 | -7.55E-01 | 2.79E-01 | 0.58 | |
| 918 | 15.05 | 4.28E-05 | 1.5 | 1.14E-03 | 2.49E-02 | 1.13E+00 | -6.75E-01 | 2.25E-01 | 0.60 | |
| 920 | 15.10 | 4.25E-05 | 1.1 | 1.33E-03 | 4.13E-02 | 1.10E+00 | -6.90E-01 | 2.06E-01 | 0.63 | |
| 922 | 15.16 | 3.81E-05 | -2.0 | 1.27E-03 | 2.36E-02 | 1.13E+00 | -6.85E-01 | 2.22E-01 | 0.61 | |
| 924 | 15.21 | 3.92E-05 | -2.9 | 1.35E-03 | 2.56E-02 | 1.09E+00 | -6.38E-01 | 2.24E-01 | 0.59 | |
| 926 | 15.27 | 4.71E-05 | 0.8 | 1.70E-03 | 2.62E-02 | 1.32E+00 | -8.13E-01 | 2.55E-01 | 0.61 | |
| 928 | 15.32 | 4.49E-05 | -0.3 | 1.50E-03 | 2.82E-02 | 1.20E+00 | -6.85E-01 | 2.55E-01 | 0.57 | |
| 930 | 15.37 | 4.82E-05 | -0.6 | 1.13E-03 | 3.00E-02 | 1.22E+00 | -6.68E-01 | 2.75E-01 | 0.55 | |
| 932 | 15.43 | 5.54E-05 | -0.4 | 1.27E-03 | 2.67E-02 | 1.14E+00 | -6.35E-01 | 2.51E-01 | 0.56 | Tephra |
| Slug 14/A | | | | | | | | | | |
| 933 | 15.62 | 8.25E-05 | 1.5 | 2.98E-03 | 3.53E-02 | 1.47E+00 | -1.00E+00 | 2.37E-01 | 0.68 | Tephra |
| 935 | 15.70 | 7.26E-05 | 2.8 | 2.41E-03 | 4.30E-02 | 2.01E+00 | -1.09E+00 | 4.59E-01 | 0.54 | |
| 936 | 15.75 | 3.63E-05 | -1.7 | 1.07E-03 | 1.99E-02 | 9.95E-01 | -5.78E-01 | 2.09E-01 | 0.58 | |
| 937 | 15.79 | 2.85E-05 | -2.7 | 8.10E-04 | 1.70E-02 | 8.28E-01 | -4.86E-01 | 1.71E-01 | 0.59 | |
| 938 | 15.84 | 3.45E-05 | -0.9 | 8.10E-04 | 2.13E-02 | 1.01E+00 | -5.90E-01 | 2.09E-01 | 0.59 | |
| 939 | 15.90 | 5.28E-05 | 0.7 | 1.54E-03 | 3.04E-02 | 1.41E+00 | -8.08E-01 | 3.00E-01 | 0.57 | |
| 940 | 15.95 | 3.18E-05 | -4.2 | 1.25E-03 | 1.92E-02 | 9.40E-01 | -5.63E-01 | 1.89E-01 | 0.60 | |
| 942 | 16.00 | 2.92E-05 | -3.0 | 1.27E-03 | 1.88E-02 | 8.68E-01 | -5.05E-01 | 1.81E-01 | 0.58 | |
| 946 | 16.07 | 4.10E-05 | -1.2 | 1.40E-03 | 2.63E-02 | 1.12E+00 | -6.48E-01 | 2.38E-01 | 0.58 | |
| 934 | 16.16 | 3.24E-05 | -3.6 | 9.65E-04 | 2.08E-02 | 9.58E-01 | -5.70E-01 | 1.94E-01 | 0.60 | |
| 941 | 16.22 | 3.04E-05 | 0.1 | 8.80E-04 | 1.99E-02 | 9.05E-01 | -5.47E-01 | 1.79E-01 | 0.60 | |
| 943 | 16.27 | 4.01E-05 | -2.1 | 8.73E-04 | 2.50E-02 | 1.09E+00 | -6.58E-01 | 2.19E-01 | 0.60 | |
| 945 | 16.33 | 3.73E-05 | -2.7 | 2.32E-03 | 2.28E-02 | 1.04E+00 | -6.28E-01 | 2.05E-01 | 0.60 | |
| 947 | 16.39 | 5.31E-05 | 0.8 | 1.63E-03 | 3.02E-02 | 1.30E+00 | -7.60E-01 | 2.70E-01 | 0.58 | |
| 948 | 16.50 | 4.68E-05 | 1.7 | 1.51E-03 | 2.38E-02 | 1.37E+00 | -9.50E-01 | 2.08E-01 | 0.70 | |
| 949 | 16.59 | 4.72E-05 | 2.5 | 1.06E-03 | 2.63E-02 | 1.12E+00 | -6.53E-01 | 2.33E-01 | 0.58 | |
| 950 | 16.77 | 3.31E-05 | 1.0 | 8.53E-04 | 2.84E-02 | 7.48E-01 | -4.85E-01 | 1.31E-01 | 0.65 | |
| 951 | 16.87 | 3.55E-05 | -11.3 | 6.05E-04 | 1.82E-02 | 7.63E-01 | -4.63E-01 | 1.50E-01 | 0.61 | |
| Slug 14/B | | | | | | | | | | |
| 952 | 17.04 | 7.47E-05 | 7.9 | 1.81E-03 | 3.50E-02 | 1.54E+00 | -9.30E-01 | 3.05E-01 | 0.60 | |
| 954 | 17.08 | 9.63E-05 | 6.8 | 2.25E-03 | 4.25E-02 | 1.90E+00 | -1.15E+00 | 3.74E-01 | 0.61 | |
| 956 | 17.14 | 1.66E-04 | 7.5 | 4.45E-03 | 7.70E-02 | 3.77E+00 | -2.39E+00 | 6.90E-01 | 0.63 | |

| Sample Box No. | Depth (meter) | MS vol-SI (low freq.) | FD of MS % | NRM A/m | ARM A/m | IRM 1.2T A/m | IRM -0.3T A/m | HIRM A/m | S | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 958 | 17.20 | 5.48E-05 | 5.0 | 7.95E-04 | 2.75E-02 | 1.18E+00 | -7.18E-01 | 2.30E-01 | 0.61 | |
| 960 | 17.25 | 4.84E-05 | 5.6 | 7.69E-04 | 2.61E-02 | 1.13E+00 | -6.83E-01 | 2.24E-01 | 0.60 | |
| 962 | 17.30 | 4.07E-05 | 3.6 | 8.10E-04 | 1.99E-02 | 9.00E-01 | -5.63E-01 | 1.69E-01 | 0.63 | |
| 964 | 17.36 | 7.60E-05 | 4.5 | 1.41E-03 | 3.42E-02 | 1.52E+00 | -9.80E-01 | 2.71E-01 | 0.64 | |
| 966 | 17.51 | 1.20E-03 | 9.9 | 2.90E-02 | 6.10E-01 | 1.06E+01 | -8.43E+00 | 1.09E+00 | 0.79 | |
| 968 | 17.58 | 6.94E-04 | 9.3 | 8.48E-03 | 3.33E-01 | 6.42E+00 | -5.00E+00 | 7.12E-01 | 0.78 | |
| 959 | 17.71 | 9.99E-04 | 8.6 | | | | | | | Disturbed |
| 957 | 17.77 | 2.11E-04 | 7.3 | | | | | | | Disturbed |
| 953 | 17.83 | 3.58E-04 | 8.8 | | | | | | | Disturbed |
| 955 | 17.91 | 6.31E-04 | 6.5 | 1.08E-02 | 2.65E-01 | | | | | Disturbed |
| 961 | 18.01 | 3.22E-04 | 6.7 | 5.18E-03 | 1.10E-01 | 3.80E+00 | -2.60E+00 | 6.01E-01 | 0.68 | |
| 963 | 18.06 | 7.30E-04 | 8.4 | 1.29E-02 | 2.54E-01 | 7.45E+00 | -5.12E+00 | 1.16E+00 | 0.69 | |
| 965 | 18.11 | 8.19E-04 | 6.7 | 2.13E-02 | 3.85E-01 | 8.78E+00 | -7.25E+00 | 7.63E-01 | 0.83 | |
| 967 | 18.16 | 5.17E-04 | 6.2 | 1.02E-02 | 2.37E-01 | 5.40E+00 | -4.56E+00 | 4.23E-01 | 0.84 | |
| 969 | 18.20 | 1.29E-03 | 6.2 | 2.70E-02 | 6.95E-01 | 1.32E+01 | -1.15E+01 | 8.50E-01 | 0.87 | |
| 970 | 18.26 | 2.12E-03 | 5.6 | 5.78E-02 | 1.52E+00 | 2.39E+01 | -2.26E+01 | 6.75E-01 | 0.94 | |
| 971 | 18.31 | 4.74E-04 | 6.7 | 1.15E-02 | 1.89E-01 | 5.15E+00 | -4.47E+00 | 3.39E-01 | 0.87 | |
| 972 | 18.37 | 1.75E-04 | 5.2 | 3.10E-03 | 6.38E-02 | 2.08E+00 | -1.58E+00 | 2.51E-01 | 0.76 | |
| 973 | 18.45 | 1.57E-04 | 5.7 | 4.43E-03 | 4.98E-02 | 1.65E+00 | -1.28E+00 | 1.86E-01 | 0.77 | |
| Slug 15/A | | | | | | | | | | |
| 975 | 18.59 | 1.16E-03 | 6.0 | 2.36E-02 | 5.93E-01 | 1.31E+01 | -1.17E+01 | 7.13E-01 | 0.89 | |
| 977 | 18.64 | 1.54E-03 | 5.9 | 4.62E-02 | 7.75E-01 | 1.72E+01 | -1.57E+01 | 7.50E-01 | 0.91 | |
| 979 | 18.69 | 2.36E-03 | 5.7 | 6.93E-02 | 1.31E+00 | 2.67E+01 | -2.49E+01 | 8.75E-01 | 0.93 | |
| 981 | 18.75 | 3.95E-03 | 5.4 | 1.38E-01 | 2.09E+00 | 4.83E+01 | -4.62E+01 | 1.06E+00 | 0.96 | |
| 983 | 18.79 | 3.48E-03 | 5.4 | 1.17E-01 | 1.89E+00 | 4.52E+01 | -4.28E+01 | 1.20E+00 | 0.95 | |
| 985 | 18.84 | 1.54E-03 | 5.6 | 4.53E-02 | 1.38E+00 | 2.11E+01 | -2.02E+01 | 4.25E-01 | 0.96 | |
| 966 | 18.89 | 1.77E-03 | 5.6 | 6.63E-02 | 1.36E+00 | 2.12E+01 | -2.01E+01 | 5.62E-01 | 0.95 | |
| 988 | 18.95 | 2.47E-03 | 6.0 | 8.00E-02 | 1.54E+00 | 3.14E+01 | -2.94E+01 | 1.00E+00 | 0.94 | |
| 974 | 19.01 | 1.71E-03 | 5.2 | 5.63E-02 | 9.73E-01 | 2.24E+01 | -2.10E+01 | 7.12E-01 | 0.94 | |
| 976 | 19.06 | 1.48E-03 | 5.2 | 5.45E-02 | 7.50E-01 | 1.85E+01 | -1.72E+01 | 6.25E-01 | 0.93 | |
| 978 | 19.11 | 1.31E-03 | 5.7 | 4.78E-02 | 6.80E-01 | 1.61E+01 | -1.49E+01 | 6.38E-01 | 0.92 | |
| 980 | 19.16 | 2.96E-04 | 6.4 | 6.84E-03 | 1.27E-01 | 4.46E+00 | -3.46E+00 | 4.99E-01 | 0.78 | |
| 982 | 19.22 | 4.29E-04 | 6.9 | 1.20E-02 | 1.64E-01 | 7.23E+00 | -5.50E+00 | 8.62E-01 | 0.76 | |
| 987 | 19.28 | 2.14E-03 | 0.0 | 6.83E-02 | 6.28E-01 | 7.53E+01 | -5.53E+01 | 1.00E+01 | 0.73 | |
| 989 | 19.32 | 1.93E-04 | 6.7 | 4.68E-03 | 8.13E-02 | 3.08E+00 | -2.37E+00 | 3.55E-01 | 0.77 | |
| 990 | 19.38 | 6.93E-05 | 2.2 | 2.76E-03 | 4.53E-02 | 1.31E+00 | -9.63E-01 | 1.75E-01 | 0.73 | |
| Slug 16/A | | | | | | | | | | |
| 552 | 19.52 | 2.36E-03 | 4.1 | 1.21E-01 | 1.58E+00 | 1.73E+02 | -1.45E+02 | 1.41E+01 | 0.84 | Cinders |
| 553 | 19.56 | 1.99E-03 | 5.9 | 7.97E-02 | 1.07E+00 | 1.09E+02 | -9.50E+01 | 7.12E+00 | 0.87 | Cinders |
| 555 | 19.79 | 1.93E-04 | 5.0 | 2.81E-03 | 3.97E-02 | 1.40E+00 | -1.15E+00 | 1.26E-01 | 0.82 | |
| 556 | 19.84 | 3.31E-04 | 16.7 | 3.31E-02 | 5.47E-02 | 1.98E+00 | -1.66E+00 | 1.61E-01 | 0.84 | Tephra (Rockland) |
| 563 | 19.89 | 2.73E-04 | 15.3 | 6.19E-02 | 4.59E-02 | 1.92E+00 | -1.62E+00 | 1.50E-01 | 0.84 | Tephra (Rockland) |
| 554 | 19.94 | 1.54E-03 | 21.2 | 4.25E-02 | 9.31E-02 | 2.92E+00 | -2.64E+00 | 1.40E-01 | 0.90 | Tephra (Rockland) |
| Slug 17/A | | | | | | | | | | |
| 557 | 20.18 | 1.52E-04 | 4.8 | 4.95E-03 | 7.40E-02 | 2.78E+00 | -1.69E+00 | 5.47E-01 | 0.61 | |
| 558 | 20.23 | 2.29E-04 | 5.8 | 7.95E-03 | 1.03E-01 | 4.11E+00 | -2.61E+00 | 7.54E-01 | 0.63 | |
| 559 | 20.28 | 2.27E-04 | 5.9 | 7.23E-03 | 9.90E-02 | 3.58E+00 | -2.28E+00 | 6.52E-01 | 0.64 | |
| 560 | 20.33 | 2.73E-04 | 5.6 | 6.73E-03 | 1.36E-01 | 4.26E+00 | -3.17E+00 | 5.43E-01 | 0.75 | |
| 561 | 20.38 | 3.56E-04 | 5.7 | 5.85E-03 | 2.02E-01 | 5.00E+00 | -3.89E+00 | 5.56E-01 | 0.78 | |
| 562 | 20.43 | 3.99E-04 | 5.4 | 1.10E-02 | 1.75E-01 | 5.68E+00 | -4.30E+00 | 6.86E-01 | 0.76 | |
| 625 | 20.50 | 2.31E-03 | 4.8 | 4.48E-02 | 7.37E-01 | 3.51E+01 | -3.12E+01 | 1.91E+00 | 0.89 | |
| 564 | 20.55 | 2.50E-04 | 5.6 | 5.60E-03 | 1.26E-01 | 4.85E+00 | -3.09E+00 | 8.79E-01 | 0.64 | |
| 565 | 20.60 | 5.52E-04 | 6.1 | 7.03E-03 | 1.91E-01 | 1.15E+01 | -8.63E+00 | 1.41E+00 | 0.75 | |
| 566 | 20.65 | 4.25E-04 | 5.8 | 6.15E-03 | 1.41E-01 | 9.30E+00 | -6.90E+00 | 1.20E+00 | 0.74 | |

| Sample Box No. | Depth (meter) | MS vol-SI (low freq.) | FD of MS % | NRM A/m | ARM A/m | IRM 1.2T A/m | IRM -0.3T A/m | HIRM A/m | S | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 567 | 20.70 | 3.36E-04 | 5.3 | 5.78E-03 | 1.22E-01 | 7.25E+00 | -5.33E+00 | 9.63E-01 | 0.73 | |
| 568 | 20.77 | 1.27E-04 | 2.7 | 1.73E-03 | 3.48E-02 | 1.94E+00 | -1.51E+00 | 2.16E-01 | 0.78 | Reworked tephra (Dibekulewe) |
| 569 | 20.88 | 3.29E-03 | 5.0 | 0.00E+00 | 1.28E+00 | 4.21E+01 | -3.81E+01 | 2.05E+00 | 0.90 | |
| 570 | 20.93 | 3.00E-03 | 5.5 | 7.25E-02 | 1.56E+00 | 3.87E+01 | -3.49E+01 | 1.94E+00 | 0.90 | |
| 571 | 20.98 | 3.15E-03 | 5.4 | 9.00E-02 | 1.57E+00 | 4.10E+01 | -3.71E+01 | 1.95E+00 | 0.90 | |
| Slug 18/A | | | | | | | | | | |
| 572 | 21.07 | 3.56E-03 | 5.3 | 9.70E-02 | 1.51E+00 | 5.60E+01 | -4.90E+01 | 3.50E+00 | 0.88 | |
| 573 | 21.12 | 1.09E-04 | 2.7 | 4.33E-03 | 5.43E-02 | 2.06E+00 | -1.25E+00 | 4.04E-01 | 0.61 | |
| 574 | 21.17 | 1.42E-04 | 3.0 | 4.00E-03 | 5.37E-02 | 2.04E+00 | -1.30E+00 | 3.70E-01 | 0.64 | |
| 575 | 21.22 | 1.36E-04 | 3.8 | 2.00E-03 | 5.80E-02 | 2.25E+00 | -1.47E+00 | 3.86E-01 | 0.66 | |
| 576 | 21.27 | 2.00E-04 | 4.8 | 4.55E-03 | 7.93E-02 | 3.06E+00 | -1.92E+00 | 5.69E-01 | 0.63 | |
| 577 | 21.37 | 1.16E-04 | 2.6 | 1.17E-03 | 4.93E-02 | 1.93E+00 | -1.30E+00 | 3.18E-01 | 0.67 | |
| 578 | 21.42 | 2.21E-04 | 2.4 | 2.50E-03 | 4.24E-02 | 1.91E+00 | -1.37E+00 | 2.71E-01 | 0.72 | |
| 579 | 21.47 | 9.05E-05 | 2.0 | 1.65E-03 | 4.35E-02 | 1.77E+00 | -1.13E+00 | 3.16E-01 | 0.64 | |
| 580 | 21.52 | 8.63E-05 | 2.2 | 1.87E-03 | 4.61E-02 | 1.97E+00 | -1.30E+00 | 3.39E-01 | 0.66 | |
| 581 | 21.57 | 2.87E-04 | 7.6 | 4.98E-03 | 1.16E-01 | 5.25E+00 | -3.90E+00 | 6.78E-01 | 0.74 | |
| 582 | 21.62 | 1.99E-04 | 3.4 | 3.70E-03 | 8.20E-02 | 4.15E+00 | -3.00E+00 | 5.74E-01 | 0.72 | |
| 583 | 21.67 | 1.23E-04 | 4.2 | 8.03E-03 | 3.65E-02 | 1.45E+00 | -1.18E+00 | 1.35E-01 | 0.81 | |
| 584 | 21.73 | 1.07E-04 | 2.2 | 2.53E-03 | 3.24E-02 | 1.19E+00 | -9.80E-01 | 1.12E-01 | 0.81 | |
| Slug 19/A | | | | | | | | | | |
| 585 | 21.93 | 1.23E-04 | 5.2 | 3.60E-02 | 3.79E-02 | 1.52E+00 | -1.22E+00 | 1.53E-01 | 0.80 | |
| 586 | 21.98 | 9.32E-05 | 2.5 | 2.08E-03 | 3.58E-02 | 1.34E+00 | -1.04E+00 | 1.53E-01 | 0.77 | |
| 587 | 22.03 | 6.47E-05 | 0.0 | 1.22E-03 | 2.98E-02 | 1.12E+00 | -8.68E-01 | 1.26E-01 | 0.77 | |
| 588 | 22.08 | 8.01E-05 | 3.3 | 9.30E-04 | 3.09E-02 | 1.13E+00 | -8.78E-01 | 1.26E-01 | 0.78 | |
| 589 | 22.13 | 8.44E-05 | 4.7 | 1.13E-03 | 3.34E-02 | 1.21E+00 | -9.30E-01 | 1.40E-01 | 0.77 | |
| 590 | 22.18 | 7.60E-05 | 2.5 | 1.27E-03 | 2.82E-02 | 1.08E+00 | -8.53E-01 | 1.15E-01 | 0.79 | |
| 591 | 22.23 | 1.04E-04 | 3.4 | 3.90E-03 | 3.81E-02 | 1.70E+00 | -1.31E+00 | 1.94E-01 | 0.77 | |
| 592 | 22.28 | 9.72E-05 | 3.2 | 3.63E-03 | 3.04E-02 | 1.14E+00 | -9.33E-01 | 1.04E-01 | 0.82 | Above Lava Creek B |
| 593 | 22.38 | 5.06E-04 | 7.1 | 1.78E-02 | 1.78E-01 | 1.28E+01 | -9.20E+00 | 1.79E+00 | 0.72 | Below Lava Creek B |
| 594 | 22.43 | 1.31E-03 | 7.4 | 3.08E-02 | 4.12E-01 | 2.98E+01 | -2.25E+01 | 3.56E+00 | 0.76 | |
| 595 | 22.48 | 1.38E-04 | 2.3 | 9.30E-03 | 3.41E-02 | 2.40E+00 | -1.76E+00 | 3.23E-01 | 0.73 | |
| 596 | 22.63 | 2.32E-04 | 4.2 | 5.65E-03 | 1.04E-01 | 4.95E+00 | -3.73E+00 | 6.11E-01 | 0.75 | |
| 597 | 22.68 | 5.92E-04 | 5.6 | 1.15E-02 | 2.51E-01 | 1.55E+01 | -1.23E+01 | 1.65E+00 | 0.79 | |
| 598 | 22.73 | 1.18E-03 | 6.7 | 3.20E-02 | 4.60E-01 | 3.17E+01 | -2.53E+01 | 3.21E+00 | 0.80 | |
| 599 | 22.78 | 3.53E-04 | 4.8 | 6.60E-03 | 1.42E-01 | 8.08E+00 | -6.10E+00 | 9.87E-01 | 0.76 | |
| 600 | 22.83 | 3.36E-04 | 4.6 | 7.90E-03 | 1.35E-01 | 7.23E+00 | -5.30E+00 | 9.62E-01 | 0.73 | |
| 601 | 22.88 | 2.71E-04 | 4.4 | 4.78E-03 | 1.16E-01 | 5.70E+00 | -4.08E+00 | 8.21E-01 | 0.71 | |
| 602 | 22.93 | 8.15E-04 | 7.2 | 2.46E-02 | 2.93E-01 | 1.55E+01 | -1.21E+01 | 1.72E+00 | 0.78 | |
| 603 | 22.98 | 7.40E-04 | 8.3 | 2.06E-02 | 2.73E-01 | 1.08E+01 | -8.05E+00 | 1.38E+00 | 0.75 | |
| 604 | 23.03 | 4.71E-04 | 6.8 | 1.42E-02 | 1.74E-01 | 7.40E+00 | -5.30E+00 | 1.05E+00 | 0.72 | |
| 605 | 23.13 | 5.48E-04 | 7.3 | 2.09E-02 | 1.76E-01 | 7.05E+00 | -4.91E+00 | 1.07E+00 | 0.70 | |
| 606 | 23.18 | 5.47E-04 | 6.4 | 1.37E-02 | 1.80E-01 | 9.40E+00 | -7.00E+00 | 1.20E+00 | 0.74 | |
| Slug 19/B | | | | | | | | | | |
| 607 | 23.23 | 3.82E-04 | 7.2 | 9.10E-03 | 1.47E-01 | 6.58E+00 | -4.62E+00 | 9.79E-01 | 0.70 | |
| 608 | 23.28 | 7.40E-04 | 7.7 | 2.03E-02 | 2.56E-01 | 1.23E+01 | -9.30E+00 | 1.51E+00 | 0.75 | |
| 609 | 23.33 | 3.32E-04 | 6.5 | 9.05E-03 | 1.31E-01 | 5.68E+00 | -3.70E+00 | 9.88E-01 | 0.65 | |
| 610 | 23.38 | 5.58E-04 | 7.4 | 1.53E-02 | 1.92E-01 | 9.48E+00 | -6.93E+00 | 1.27E+00 | 0.73 | |
| 611 | 23.43 | 9.42E-04 | 8.4 | 3.63E-02 | 4.14E-01 | 1.15E+01 | -9.05E+00 | 1.22E+00 | 0.79 | |
| 612 | 23.48 | 7.18E-04 | 7.2 | 3.23E-02 | 2.61E-01 | 1.15E+01 | -9.30E+00 | 1.10E+00 | 0.81 | |
| 613 | 23.53 | 3.57E-04 | 7.4 | 1.27E-02 | 1.10E-01 | 5.80E+00 | -4.60E+00 | 6.01E-01 | 0.79 | |
| 614 | 23.58 | 1.89E-04 | 5.5 | 4.80E-03 | 9.15E-02 | 3.82E+00 | -2.44E+00 | 6.90E-01 | 0.64 | |
| 615 | 23.63 | 8.87E-04 | 9.1 | 2.93E-02 | 4.55E-01 | 8.68E+00 | -7.43E+00 | 6.25E-01 | 0.86 | |
| 616 | 23.68 | 1.08E-03 | 7.4 | 3.48E-02 | 6.65E-01 | 1.35E+01 | -1.16E+01 | 9.63E-01 | 0.86 | |
| 617 | 23.73 | 4.63E-04 | 6.2 | 1.67E-02 | 2.98E-01 | 5.70E+00 | -4.36E+00 | 6.71E-01 | 0.76 | |

| Sample Box No. | Depth (meter) | MS vol-SI (low freq.) | FD of MS % | NRM A/m | ARM A/m | IRM 1.2T A/m | IRM -0.3T A/m | HIRM A/m | S | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 618 | 23.78 | 4.35E-04 | 6.6 | 1.46E-02 | 3.22E-01 | 5.68E+00 | -4.58E+00 | 5.50E-01 | 0.81 | |
| 619 | 23.83 | 7.32E-04 | 7.1 | 2.40E-02 | 1.95E-01 | 1.24E+01 | -1.06E+01 | 8.63E-01 | 0.86 | |
| 620 | 23.88 | 2.44E-04 | 6.2 | 1.16E-02 | 1.08E-01 | 4.75E+00 | -3.34E+00 | 7.04E-01 | 0.70 | |
| 621 | 23.93 | 3.29E-04 | 6.1 | 1.05E-02 | 1.26E-01 | 6.42E+00 | -4.75E+00 | 8.40E-01 | 0.74 | |
| 622 | 23.98 | 8.95E-04 | 6.5 | 3.43E-02 | 3.38E-01 | 1.68E+01 | -1.33E+01 | 1.76E+00 | 0.79 | |
| 623 | 24.03 | 2.28E-03 | 5.6 | 8.28E-02 | 8.28E-01 | 3.83E+01 | -3.26E+01 | 2.84E+00 | 0.85 | |
| 624 | 24.08 | 2.55E-03 | 6.5 | 7.08E-02 | 1.27E+00 | 3.53E+01 | -3.10E+01 | 2.16E+00 | 0.88 | |

## TABLE 4. Hysteresis Parameters

**Sample Box No:** A unique number assigned to paleomagnetic samples that are placed in plastic boxes.

**Depth:** Depth in hole as in Table 1.

**Paramagnetic MS:** Paramagnetic magnetic susceptibility determined from the slope of the hysteresis curve above an induction of 0.9 T.

**Msat:** Saturation magnetization determined after removal of paramagnetic component.

**Mrs:** Saturation remanent magnetization.

**Hc:** Coercivity determined after removal of paramagnetic component.

**Hcr:** Coercivity of remanence.

| Sample Box No. | Depth (meter) | Paramag-netic MS vol-SI | Msat A/m | Mrs A/m | Hc mT | Hcr mT | Mrs/Msat | Hcr/Hc |
|---|---|---|---|---|---|---|---|---|
| 500 | 5.31 | 5.11E-05 | 1.55E+01 | 5.66E+00 | 28.5 | 90.2 | 0.365 | 3.169 |
| 524 | 5.66 | 1.10E-05 | 4.84E+00 | 1.81E+00 | 26.4 | 88.3 | 0.374 | 3.339 |
| 506 | 6.01 | 1.30E-05 | 5.44E+00 | 2.02E+00 | 26.4 | 89.3 | 0.371 | 3.387 |
| 518 | 6.41 | 1.72E-05 | 6.19E+00 | 2.33E+00 | 26.1 | 87.7 | 0.376 | 3.357 |
| 526 | 6.77 | 9.82E-05 | 6.50E+00 | 2.63E+00 | 25.6 | 94.8 | 0.404 | 3.698 |
| 537 | 7.41 | 5.97E-05 | 9.19E+00 | 3.31E+00 | 24.3 | 90.1 | 0.361 | 3.704 |
| 547 | 7.92 | 5.58E-05 | 9.75E+00 | 3.34E+00 | 22.4 | 80.9 | 0.343 | 3.607 |
| 812 | 8.49 | 1.81E-05 | 6.81E+00 | 2.46E+00 | 26.3 | 89.7 | 0.361 | 3.406 |
| 805 | 9.21 | 1.30E-05 | 6.87E+00 | 2.37E+00 | 24.4 | 84.5 | 0.345 | 3.470 |
| 829 | 9.71 | 3.23E-06 | 5.50E+00 | 1.74E+00 | 21.8 | 75.3 | 0.316 | 3.457 |
| 834 | 9.86 | 1.66E-06 | 3.38E+00 | 1.18E+00 | 23.8 | 78.9 | 0.349 | 3.317 |
| 840 | 10.04 | 2.55E-05 | 9.47E+00 | 3.38E+00 | 22.4 | 78.3 | 0.356 | 3.492 |
| 825 | 10.21 | 3.49E-05 | 9.56E+00 | 3.50E+00 | 23.1 | 75.1 | 0.366 | 3.246 |
| 837 | 10.46 | 5.22E-05 | 2.66E+01 | 5.97E+00 | 13.2 | 60.5 | 0.224 | 4.591 |
| 843 | 10.61 | 8.76E-05 | 5.19E+01 | 1.02E+01 | 9.8 | 36.1 | 0.196 | 3.695 |
| 846 | 10.76 | 1.57E-04 | 3.53E+02 | 6.69E+01 | 10.1 | 27.4 | 0.189 | 2.702 |
| 849 | 10.84 | 8.05E-05 | 3.41E+01 | 8.47E+00 | 14.0 | 53.8 | 0.249 | 3.853 |
| 861 | 11.13 | 9.23E-05 | 1.36E+02 | 2.39E+01 | 9.1 | 28.5 | 0.175 | 3.121 |
| 852 | 11.31 | 6.83E-05 | 4.59E+01 | 9.69E+00 | 10.7 | 41.4 | 0.211 | 3.875 |
| 858 | 11.48 | 1.31E-05 | 7.00E+00 | 2.06E+00 | 19.0 | 69.0 | 0.294 | 3.640 |
| 860 | 11.53 | 2.42E-05 | 1.47E+01 | 3.50E+00 | 13.9 | 54.2 | 0.238 | 3.907 |
| 863 | 11.59 | 7.34E-05 | 6.62E+01 | 1.18E+01 | 10.1 | 33.8 | 0.178 | 3.353 |
| 869 | 11.74 | 1.01E-04 | 1.08E+02 | 2.07E+01 | 10.3 | 30.4 | 0.191 | 2.955 |
| 877 | 11.94 | 9.03E-05 | 3.81E+01 | 9.69E+00 | 15.2 | 49.7 | 0.254 | 3.265 |
| 881 | 12.03 | 5.07E-05 | 1.32E+01 | 3.91E+00 | 16.5 | 58.7 | 0.296 | 3.560 |
| 887 | 12.19 | 1.12E-05 | 8.06E+00 | 2.31E+00 | 16.2 | 54.4 | 0.286 | 3.357 |
| 868 | 12.35 | 1.15E-04 | 4.03E+01 | 8.59E+00 | 10.8 | 39.4 | 0.213 | 3.651 |
| 878 | 12.61 | 3.62E-05 | 2.38E+01 | 5.22E+00 | 12.3 | 42.0 | 0.219 | 3.425 |
| 882 | 12.73 | 2.12E-05 | 1.64E+01 | 3.62E+00 | 12.4 | 43.5 | 0.221 | 3.506 |
| 884 | 12.78 | 6.01E-05 | 6.84E+01 | 1.26E+01 | 10.1 | 31.2 | 0.184 | 3.085 |
| 888 | 12.89 | 9.62E-05 | 1.56E+02 | 2.75E+01 | 10.2 | 27.8 | 0.176 | 2.736 |
| 903 | 13.32 | 1.94E-04 | 9.19E+01 | 1.97E+01 | 11.2 | 31.0 | 0.215 | 2.764 |
| 896 | 13.87 | 7.81E-05 | 9.37E+01 | 1.78E+01 | 10.3 | 31.8 | 0.190 | 3.094 |
| 898 | 13.92 | 6.05E-05 | 3.94E+01 | 9.09E+00 | 13.3 | 47.2 | 0.231 | 3.544 |
| 900 | 13.98 | 9.15E-06 | 7.97E+00 | 2.09E+00 | 16.6 | 56.5 | 0.262 | 3.412 |
| 904 | 14.07 | 9.50E-05 | 1.15E+02 | 2.03E+01 | 10.5 | 31.5 | 0.176 | 3.010 |
| 910 | 14.23 | 1.14E-04 | 3.08E+02 | 5.59E+01 | 10.6 | 28.0 | 0.182 | 2.635 |
| 912 | 14.33 | 3.77E-05 | 1.64E+01 | 4.81E+00 | 19.1 | 64.4 | 0.293 | 3.367 |
| 917 | 14.52 | 8.07E-05 | 7.50E+01 | 1.49E+01 | 11.0 | 34.3 | 0.199 | 3.127 |
| 921 | 14.61 | 9.74E-06 | 6.09E+00 | 2.00E+00 | 22.6 | 78.5 | 0.328 | 3.479 |
| 966 | 17.51 | 7.70E-05 | 5.56E+01 | 1.17E+01 | 10.2 | 36.3 | 0.210 | 3.558 |
| 957 | 17.77 | 4.01E-05 | 1.20E+01 | 3.97E+00 | 20.1 | 67.7 | 0.331 | 3.363 |
| 970 | 18.26 | 5.74E-05 | 1.53E+02 | 2.43E+01 | 9.9 | 27.5 | 0.159 | 2.787 |

| Sample Box No. | Depth (meter) | Paramag-netic MS vol-SI | Msat A/m | Mrs A/m | Hc mT | Hcr mT | Mrs/Msat | Hcr/Hc |
|---|---|---|---|---|---|---|---|---|
| 972 | 18.37 | 4.91E-06 | 1.00E+01 | 2.11E+00 | 11.8 | 42.2 | 0.211 | 3.571 |
| 975 | 18.59 | 4.71E-05 | 7.91E+01 | 1.38E+01 | 10.1 | 30.9 | 0.174 | 3.053 |
| 981 | 18.75 | 7.38E-05 | 3.03E+02 | 4.97E+01 | 10.5 | 28.2 | 0.164 | 2.688 |
| 988 | 18.95 | 3.35E-05 | 1.82E+02 | 3.25E+01 | 10.9 | 29.4 | 0.179 | 2.686 |
| 982 | 19.22 | 1.35E-05 | 2.96E+01 | 7.28E+00 | 16.2 | 54.2 | 0.246 | 3.337 |

## TABLE 5. Elemental Abundances from X-ray Fluorescence

**Vial No:** A unique number assigned to samples removed from the core and placed in vials.

**Paired Sample Box No:** Box number of the closest magnetic specimen.

**Depth:** Depth in hole as in Table 1.

| Vial No. | Paired Sample Box No. | Depth in hole (meter) | Ba ppm | Cr ppm | Cu ppm | Fe Wt% | La ppm | Mn ppm | Ni ppm | Rb ppm | Ti WT% | V ppm | Zn ppm | Zr ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4112 | 500 | 5.30 | 768 | 98 | 120 | 4.46 | 29 | 297 | 85 | 24 | 0.72 | 204 | 95 | 167 |
| 4114 | 501 | 5.41 | 340 | 77 | 66 | 2.77 | 23 | 148 | 55 | 17 | 0.45 | 164 | 151 | 100 |
| 4118 | 503 | 5.51 | 389 | 85 | 57 | 2.82 | 16 | 139 | 61 | 19 | 0.43 | 186 | 111 | 72 |
| 4137 | 524 | 5.66 | 417 | 82 | 59 | 2.43 | 13 | 150 | 76 | 17 | 0.37 | 150 | 83 | 62 |
| 4152 | 510 | 5.81 | 266 | 99 | 56 | 2.30 | 31 | 136 | 74 | 17 | 0.36 | 99 | 83 | 80 |
| 4162 | 507 | 5.96 | 256 | 69 | 63 | 2.57 | 50 | 142 | 62 | 21 | 0.40 | 120 | 88 | 74 |
| 4135 | 515 | 6.26 | 441 | 150 | 68 | 2.89 | 29 | 137 | 63 | 19 | 0.43 | 150 | 93 | 90 |
| 4146 | 518 | 6.41 | 356 | 63 | 64 | 2.87 | 41 | 144 | 62 | 18 | 0.44 | 189 | 116 | 81 |
| 4123 | 521 | 6.57 | 265 | 73 | 73 | 2.91 | 27 | 148 | 62 | 17 | 0.44 | 114 | 88 | 91 |
| 4166 | 525 | 6.71 | 319 | 36 | 72 | 7.44 | 16 | - | 77 | 18 | 0.54 | 36 | 89 | 96 |
| 4174 | 527 | 6.82 | 268 | 72 | 68 | 8.11 | 26 | - | 80 | 15 | 0.56 | 160 | 91 | 76 |
| 4178 | 528 | 6.87 | 337 | 113 | 72 | 4.33 | 19 | 774 | 85 | 16 | 0.53 | 95 | 102 | 87 |
| 4182 | 529 | 6.92 | 331 | 102 | 75 | 3.65 | 16 | 337 | 71 | 21 | 0.50 | 64 | 91 | 101 |
| 4138 | 531 | 7.05 | 456 | 136 | 79 | 4.18 | 22 | 475 | 67 | 20 | 0.56 | 136 | 110 | 106 |
| 4192 | 532 | 7.11 | 393 | 179 | 78 | 5.34 | 49 | - | 88 | 18 | 0.54 | 179 | 97 | 90 |
| 4200 | 534 | 7.26 | 346 | 147 | 76 | 6.31 | 52 | - | 64 | 19 | 0.59 | 147 | 97 | 95 |
| 4212 | 537 | 7.41 | 288 | 145 | 70 | 4.92 | 16 | - | 84 | 21 | 0.55 | 42 | 96 | 109 |
| 4176 | 540 | 7.57 | 344 | 119 | 73 | 4.47 | 38 | 944 | 79 | 23 | 0.52 | 87 | 101 | 97 |
| 4184 | 542 | 7.67 | 379 | 198 | 73 | 4.34 | 19 | 712 | 69 | 19 | 0.54 | 198 | 99 | 105 |
| 4194 | 547 | 7.78 | 558 | 108 | 83 | 5.17 | 25 | - | 93 | 16 | 0.64 | 101 | 106 | 158 |
| 4206 | 547 | 7.92 | 326 | 26 | 76 | 5.23 | 11 | - | 70 | 23 | 0.56 | 26 | 111 | 117 |
| 4214 | 549 | 8.01 | 408 | 36 | 68 | 7.79 | 15 | - | 50 | 18 | 0.58 | 221 | 97 | 79 |
| 4219 | 551 | 8.13 | 335 | 239 | 68 | 5.53 | 29 | - | 72 | 18 | 0.53 | 239 | 97 | 101 |
| 4721 | 804 | 8.29 | 335 | 148 | 68 | 2.97 | 32 | 194 | 74 | 17 | 0.46 | 148 | 105 | 81 |
| 4727 | 810 | 8.44 | 378 | 84 | 69 | 3.02 | 25 | 169 | 69 | 18 | 0.46 | 115 | 107 | 86 |
| 4733 | 816 | 8.59 | 302 | 103 | 68 | 2.88 | 24 | 160 | 76 | 19 | 0.44 | 150 | 101 | 84 |
| 4720 | 803 | 9.28 | 338 | 32 | 67 | 2.57 | 23 | 154 | 63 | 18 | 0.43 | 32 | 140 | 108 |
| 4746 | 826 | 9.57 | 225 | 76 | 55 | 1.90 | 17 | 128 | 46 | 13 | 0.33 | 119 | 63 | 74 |
| 4747 | 830 | 9.76 | 241 | 72 | 42 | 1.56 | 23 | 118 | 40 | 15 | 0.27 | 108 | 258 | 56 |
| 4753 | 836 | 9.91 | 348 | 155 | 59 | 2.03 | 33 | 148 | 48 | 19 | 0.36 | 155 | 121 | 86 |
| 4755 | 838 | 9.96 | 295 | 81 | 61 | 2.26 | 32 | 176 | 51 | 26 | 0.40 | 126 | 83 | 76 |
| 4757 | 840 | 10.04 | 339 | 102 | 111 | 2.86 | 14 | 204 | 67 | 26 | 0.53 | 169 | 64 | 111 |
| 4759 | 842 | 10.10 | 397 | 97 | 96 | 3.15 | 24 | 179 | 55 | 27 | 0.57 | 82 | 78 | 117 |
| 4740 | 823 | 10.16 | 650 | 73 | 95 | 3.24 | 16 | 193 | 57 | 28 | 0.58 | 102 | 102 | 132 |
| 4745 | 828 | 10.27 | 469 | 112 | 95 | 4.07 | 35 | 254 | 58 | 31 | 0.65 | 93 | 113 | 156 |
| 4748 | 831 | 10.32 | 496 | 141 | 103 | 4.15 | 34 | 302 | 88 | 30 | 0.73 | 74 | 128 | 165 |
| 4750 | 833 | 10.36 | 476 | 112 | 103 | 3.88 | 35 | 221 | 67 | 13 | 0.64 | 112 | 122 | 108 |
| 4758 | 841 | 10.46 | 577 | 130 | 99 | 4.53 | 26 | 694 | 73 | 22 | 0.66 | 225 | 110 | 131 |
| 4758 | 841 | 10.57 | 493 | 106 | 101 | 4.88 | 28 | 693 | 76 | 28 | 0.68 | 106 | 104 | 149 |
| 4762 | 845 | 10.71 | 516 | 86 | 102 | 6.66 | 48 | 923 | 55 | 31 | 0.77 | 278 | 107 | 155 |
| 4763 | 846 | 10.76 | 663 | 122 | 98 | 6.12 | 46 | 817 | 102 | 36 | 0.76 | 177 | 116 | 159 |
| 4764 | 847 | 10.80 | 514 | 150 | 106 | 7.74 | 25 | - | 225 | 30 | 0.79 | 83 | 102 | 162 |

| Vial No. | Paired Sample Box No. | Depth in hole (meter) | Ba ppm | Cr ppm | Cu ppm | Fe Wt% | La ppm | Mn ppm | Ni ppm | Rb ppm | Ti WT% | V ppm | Zn ppm | Zr ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4766 | 849 | 10.85 | 411 | 177 | 117 | 5.72 | 22 | 453 | 57 | 28 | 0.77 | 177 | 108 | 145 |
| 4774 | 857 | 11.05 | 715 | 154 | 105 | 6.09 | 39 | 599 | 59 | 30 | 0.76 | 93 | 103 | 155 |
| 4778 | 861 | 11.14 | 659 | 117 | 111 | 5.78 | 39 | 616 | 88 | 25 | 0.78 | 117 | 110 | 148 |
| 4767 | 850 | 11.27 | 823 | 138 | 97 | 5.30 | 65 | 560 | 71 | 26 | 0.73 | 161 | 107 | 146 |
| 4771 | 854 | 11.37 | 637 | 114 | 99 | 4.38 | 48 | 411 | 78 | 26 | 0.66 | 196 | 106 | 123 |
| 4777 | 860 | 11.54 | 315 | 80 | 88 | 3.67 | 34 | 294 | 79 | 23 | 0.54 | 273 | 87 | 103 |
| 4782 | 865 | 11.64 | 340 | 83 | 53 | 2.56 | 25 | 146 | 70 | 19 | 0.38 | 95 | 80 | 71 |
| 4786 | 869 | 11.74 | 515 | 135 | 115 | 6.22 | 45 | 679 | 95 | 24 | 0.78 | 226 | 111 | 148 |
| 4790 | 873 | 11.84 | 542 | 148 | 109 | 7.57 | 36 | 914 | 69 | 28 | 0.78 | 148 | 113 | 140 |
| 4794 | 877 | 11.94 | 461 | 131 | 100 | 5.50 | 27 | 710 | 86 | 31 | 0.71 | 177 | 106 | 156 |
| 4798 | 881 | 12.04 | 323 | 132 | 93 | 5.63 | 26 | 813 | 75 | 22 | 0.64 | 172 | 92 | 117 |
| 4804 | 887 | 12.19 | 354 | 102 | 79 | 2.92 | 44 | 236 | 50 | 22 | 0.43 | 155 | 77 | 91 |
| 4785 | 868 | 12.35 | 431 | 142 | 88 | 7.60 | 40 | - | 85 | 33 | 0.73 | 148 | 101 | 149 |
| 4789 | 872 | 12.45 | 536 | 187 | 91 | 4.29 | 29 | 365 | 66 | 34 | 0.61 | 187 | 96 | 141 |
| 4797 | 880 | 12.66 | 406 | 185 | 90 | 3.68 | 19 | 275 | 80 | 27 | 0.53 | 185 | 105 | 115 |
| 4799 | 882 | 12.73 | 391 | 108 | 94 | 3.63 | 13 | 280 | 72 | 25 | 0.50 | 158 | 86 | 99 |
| 4801 | 884 | 12.78 | 560 | 199 | 105 | 4.94 | 16 | 502 | 79 | 28 | 0.69 | 199 | 110 | 142 |
| 4805 | 888 | 12.89 | 519 | 144 | 115 | 7.09 | 38 | 945 | 93 | 24 | 0.83 | 253 | 111 | 150 |
| 4807 | 890 | 13.02 | 667 | 157 | 103 | 5.40 | 41 | 429 | 54 | 32 | 0.73 | 157 | 101 | 148 |
| 4810 | 893 | 13.07 | 638 | 130 | 117 | 5.95 | 51 | 646 | 86 | 30 | 0.86 | 273 | 130 | 170 |
| 4816 | 899 | 13.23 | 536 | 162 | 103 | 7.15 | 19 | 849 | 67 | 26 | 0.84 | 162 | 115 | 169 |
| 4822 | 905 | 13.38 | 488 | 219 | 96 | 6.99 | 29 | - | 99 | 22 | 0.76 | 219 | 117 | 163 |
| 4808 | 891 | 13.72 | 544 | 149 | 91 | 11.12 | 38 | - | 71 | 26 | 0.84 | 92 | 96 | 154 |
| 4813 | 896 | 13.87 | 598 | 107 | 99 | 5.45 | 33 | 442 | 54 | 31 | 0.71 | 152 | 106 | 165 |
| 4817 | 900 | 13.98 | 292 | 81 | 63 | 2.77 | 26 | 208 | 51 | 18 | 0.35 | 63 | 78 | 78 |
| 4821 | 904 | 14.07 | 481 | 123 | 94 | 6.02 | 13 | 670 | 80 | 23 | 0.76 | 213 | 112 | 158 |
| 14 | 906 | 14.12 | 669 | 139 | 104 | 5.68 | 38 | 492 | 80 | 29 | 0.83 | 192 | 122 | 194 |
| 4827 | 910 | 14.23 | - | 144 | 102 | 5.73 | - | 535 | 90 | - | 0.82 | 186 | 119 | 182 |
| 4829 | 912 | 14.33 | 451 | 100 | 88 | 4.14 | 23 | 304 | 76 | 28 | 0.59 | 88 | 115 | 136 |
| 4830 | 913 | 14.41 | 564 | 109 | 84 | 4.78 | 28 | 408 | 52 | 26 | 0.62 | 198 | 109 | 150 |
| 4832 | 915 | 14.47 | 730 | 225 | 100 | 5.25 | 32 | 460 | 69 | 35 | 0.80 | 225 | 125 | 172 |
| 4836 | 919 | 14.56 | 480 | 75 | 94 | 4.13 | 10 | 306 | 55 | 27 | 0.66 | 146 | 120 | 135 |
| 4838 | 921 | 14.61 | 477 | 141 | 85 | 3.33 | 20 | 217 | 52 | 23 | 0.56 | 141 | 118 | 117 |
| 4842 | 925 | 14.73 | 804 | 55 | 65 | 2.44 | 67 | 210 | 49 | 42 | 0.38 | 55 | 98 | 121 |
| 4846 | 929 | 14.82 | 417 | 107 | 76 | 2.52 | 21 | 146 | 56 | 23 | 0.45 | 107 | 90 | 90 |
| 4835 | 918 | 15.05 | 269 | 60 | 59 | 1.70 | 11 | 119 | 46 | 14 | 0.31 | 120 | 143 | 64 |
| 4837 | 920 | 15.11 | - | 70 | 57 | 1.68 | - | 115 | 45 | 14 | 0.30 | 100 | 92 | 65 |
| 4847 | 926 | 15.27 | - | 49 | 57 | 1.82 | - | 143 | 48 | 15 | 0.36 | 104 | 94 | 58 |
| 4847 | 930 | 15.38 | - | 51 | 57 | 1.76 | - | 132 | 50 | 18 | 0.36 | 121 | 135 | 88 |
| 4858 | 935 | 15.70 | - | 84 | 69 | 2.09 | - | 135 | 45 | 22 | 0.40 | 73 | 105 | 84 |
| 4860 | 939 | 15.80 | - | 29 | 45 | 1.40 | - | 110 | 37 | 15 | 0.22 | 110 | 58 | 49 |
| 4862 | 939 | 15.90 | - | 70 | 60 | 1.80 | - | 127 | 43 | 20 | 0.34 | 165 | 83 | 73 |

| Vial No. | Paired Sample Box No. | Depth in hole (meter) | Ba ppm | Cr ppm | Cu ppm | Fe Wt% | La ppm | Mn ppm | Ni ppm | Rb ppm | Ti WT% | V ppm | Zn ppm | Zr ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4864 | 942 | 16.00 | 223 | 43 | 51 | 1.43 | 7 | 133 | 43 | 15 | 0.27 | 104 | 75 | 60 |
| 4853 | 941 | 16.22 | - | 65 | 50 | 1.55 | - | 122 | 42 | 18 | 0.27 | 94 | 68 | 58 |
| 4867 | 945 | 16.33 | - | 84 | 50 | 1.64 | - | 127 | 47 | 18 | 0.27 | 50 | 87 | 62 |
| 4872 | 951 | 16.87 | - | 73 | 45 | 1.74 | - | 175 | 59 | 22 | 0.30 | 50 | 77 | 84 |
| 4873 | 952 | 17.04 | - | 75 | 54 | 1.90 | - | 145 | 41 | 23 | 0.32 | 43 | 81 | 83 |
| 4877 | 956 | 17.14 | 315 | 92 | 74 | 2.79 | 18 | 224 | 59 | 24 | 0.55 | 92 | 95 | 119 |
| 4883 | 962 | 17.30 | 224 | 185 | 50 | 1.69 | 28 | 123 | 44 | 16 | 0.27 | 185 | 66 | 61 |
| 4885 | 964 | 17.36 | - | 74 | 62 | 2.02 | - | 158 | 36 | 20 | 0.35 | 168 | 71 | - |
| 4889 | 968 | 17.58 | - | 155 | 98 | 4.78 | - | 398 | 78 | 18 | 0.71 | 310 | 108 | 141 |
| 4880 | 959 | 17.71 | - | 107 | 109 | 4.71 | - | 389 | 128 | 25 | 0.70 | 202 | 114 | 137 |
| 4878 | 957 | 17.77 | 445 | 125 | 88 | 4.56 | 53 | 378 | 91 | 22 | 0.64 | 211 | 91 | 123 |
| 4876 | 955 | 17.91 | - | 150 | 83 | 6.12 | - | 796 | 79 | 32 | 0.65 | 63 | 104 | 153 |
| 4884 | 963 | 18.06 | - | 137 | 98 | 7.80 | - | - | 61 | 33 | 0.86 | 143 | 119 | 154 |
| 4886 | 965 | 18.11 | - | 108 | 85 | 4.13 | - | 365 | 58 | 24 | 0.62 | 218 | 96 | 116 |
| 4890 | 969 | 18.21 | - | 99 | 91 | 5.11 | - | 576 | 55 | 29 | 0.66 | 326 | 111 | 127 |
| 4893 | 971 | 18.31 | - | 77 | 67 | 2.80 | - | 241 | 48 | 17 | 0.41 | 207 | 69 | 76 |
| 4893 | 972 | 18.37 | 178 | 333 | 48 | 2.08 | 19 | 151 | 33 | 13 | 0.30 | 333 | 53 | - |
| 4895 | 975 | 18.59 | - | 96 | 80 | 4.82 | - | 492 | 57 | 24 | 0.59 | 445 | 97 | 122 |
| 4899 | 979 | 18.69 | - | 126 | 84 | 5.34 | - | 752 | 58 | 26 | 0.60 | 138 | 101 | 133 |
| 4902 | 983 | 18.79 | - | 108 | 89 | 4.71 | - | 581 | 74 | 30 | 0.61 | 181 | 104 | 150 |
| 4906 | 986 | 18.89 | - | 119 | 78 | 3.67 | - | 300 | 49 | 17 | 0.47 | 399 | 80 | 109 |
| 4908 | 988 | 18.95 | 503 | 119 | 83 | 4.00 | 21 | 441 | 64 | 27 | 0.53 | 316 | 95 | 124 |
| 4896 | 974 | 19.01 | - | 100 | 86 | 4.27 | - | 380 | 50 | 21 | 0.58 | 393 | 96 | 126 |
| 4898 | 976 | 19.06 | - | 47 | 76 | 3.86 | - | 351 | 60 | 16 | 0.51 | 525 | 82 | 101 |
| 4905 | 982 | 19.22 | - | 112 | 70 | 2.55 | - | 246 | 43 | 17 | 0.38 | 676 | 81 | 90 |
| 4910 | 990 | 19.38 | - | 206 | 71 | 1.69 | - | 119 | 36 | 14 | 0.23 | - | 46 | 53 |

## TABLE 6. Carbon Abundances

**Vial No:** A unique number assigned to samples removed from the core and placed in vials.

**Paired Sample Box No:** Box number of the closest magnetic specimen.

**Depth:** Depth in hole as in Table 1.

| Vial No. | Paired Sample Box No. | Depth in hole (meter) | Total Carbon (percent) | Cabonate Carbon (percent) | Organic Carbon (percent) |
|---|---|---|---|---|---|
| 4118 | 503 | 5.51 | 3.12 | 0.00 | 3.11 |
| 4152 | 510 | 5.81 | 2.69 | 0.00 | 2.69 |
| 4141 | 504 | 6.11 | 2.72 | 0.00 | 2.71 |
| 4146 | 518 | 6.41 | 2.68 | 0.00 | 2.68 |
| 4166 | 525 | 6.71 | 3.26 | 0.67 | 2.59 |
| 4178 | 528 | 6.87 | 2.75 | 0.14 | 2.60 |
| 4182 | 529 | 6.92 | 2.67 | 0.05 | 2.61 |
| 4138 | 531 | 7.05 | 2.65 | 0.09 | 2.55 |
| 4200 | 534 | 7.26 | 2.77 | 0.43 | 2.35 |
| 4184 | 542 | 7.67 | 2.68 | 0.16 | 2.53 |
| 4214 | 549 | 8.01 | 3.22 | 0.56 | 2.66 |
| 4727 | 810 | 8.44 | 3.14 | 0.00 | 3.14 |
| 4720 | 803 | 9.28 | 3.93 | 0.00 | 3.93 |
| 4747 | 830 | 9.76 | 4.21 | 0.00 | 4.21 |
| 4757 | 840 | 10.04 | 2.21 | 0.00 | 2.20 |
| 4740 | 823 | 10.16 | 1.42 | 0.00 | 1.42 |
| 4748 | 831 | 10.32 | 0.53 | 0.00 | 0.53 |
| 4750 | 833 | 10.36 | 1.64 | 0.00 | 1.64 |
| 4758 | 841 | 10.46 | 1.74 | 0.09 | 1.65 |
| 4762 | 845 | 10.71 | 1.15 | 0.24 | 0.91 |
| 4763 | 846 | 10.76 | 0.58 | 0.12 | 0.46 |
| 4764 | 847 | 10.80 | 1.00 | 0.33 | 0.67 |
| 4766 | 849 | 10.85 | 1.06 | 0.08 | 0.99 |
| 4774 | 857 | 11.05 | 0.77 | 0.14 | 0.63 |
| 4778 | 861 | 11.14 | 0.83 | 0.12 | 0.71 |
| 4767 | 850 | 11.27 | 1.06 | 0.11 | 0.95 |
| 4771 | 854 | 11.37 | 1.31 | 0.05 | 1.26 |
| 4777 | 860 | 11.54 | 2.22 | 0.02 | 2.20 |
| 4782 | 865 | 11.64 | 1.31 | 0.13 | 1.18 |
| 4790 | 873 | 11.84 | 0.96 | 0.21 | 0.75 |
| 4798 | 881 | 12.04 | 2.19 | 0.19 | 2.00 |
| 4804 | 887 | 12.19 | 2.14 | 0.02 | 2.11 |
| 4789 | 872 | 12.45 | 1.66 | 0.07 | 1.59 |
| 4799 | 882 | 12.73 | 2.92 | 0.02 | 2.89 |
| 4805 | 888 | 12.89 | 1.74 | 0.25 | 1.49 |
| 4810 | 893 | 13.07 | 0.96 | 0.15 | 0.81 |
| 4822 | 905 | 13.38 | 1.44 | 0.35 | 1.09 |
| 4813 | 896 | 13.87 | 0.87 | 0.06 | 0.81 |
| 4817 | 900 | 13.98 | 4.30 | 0.00 | 4.30 |
| 4821 | 904 | 14.07 | 0.87 | 0.12 | 0.76 |
| 4827 | 910 | 14.23 | 0.64 | 0.09 | 0.55 |
| 4830 | 913 | 14.41 | 1.69 | 0.06 | 1.63 |

| Vial No. | Paired Sample Box No. | Depth in hole (meter) | Total Carbon (percent) | Cabonate Carbon (percent) | Organic Carbon (percent) |
|---|---|---|---|---|---|
| 4836 | 919 | 14.56 | 1.81 | 0.03 | 1.77 |
| 4838 | 921 | 14.61 | 2.82 | 0.02 | 2.80 |
| 4842 | 925 | 14.73 | 2.86 | 0.01 | 2.85 |
| 4846 | 929 | 14.82 | 4.47 | 0.01 | 4.46 |
| 4835 | 918 | 15.05 | 6.59 | 0.01 | 6.58 |
| 4864 | 942 | 16.00 | 5.39 | 0.01 | 5.39 |
| 4877 | 956 | 17.14 | 1.52 | 0.01 | 1.52 |
| 4878 | 957 | 17.77 | 1.45 | 0.06 | 1.38 |
| 4908 | 988 | 18.95 | 1.25 | 0.05 | 1.20 |