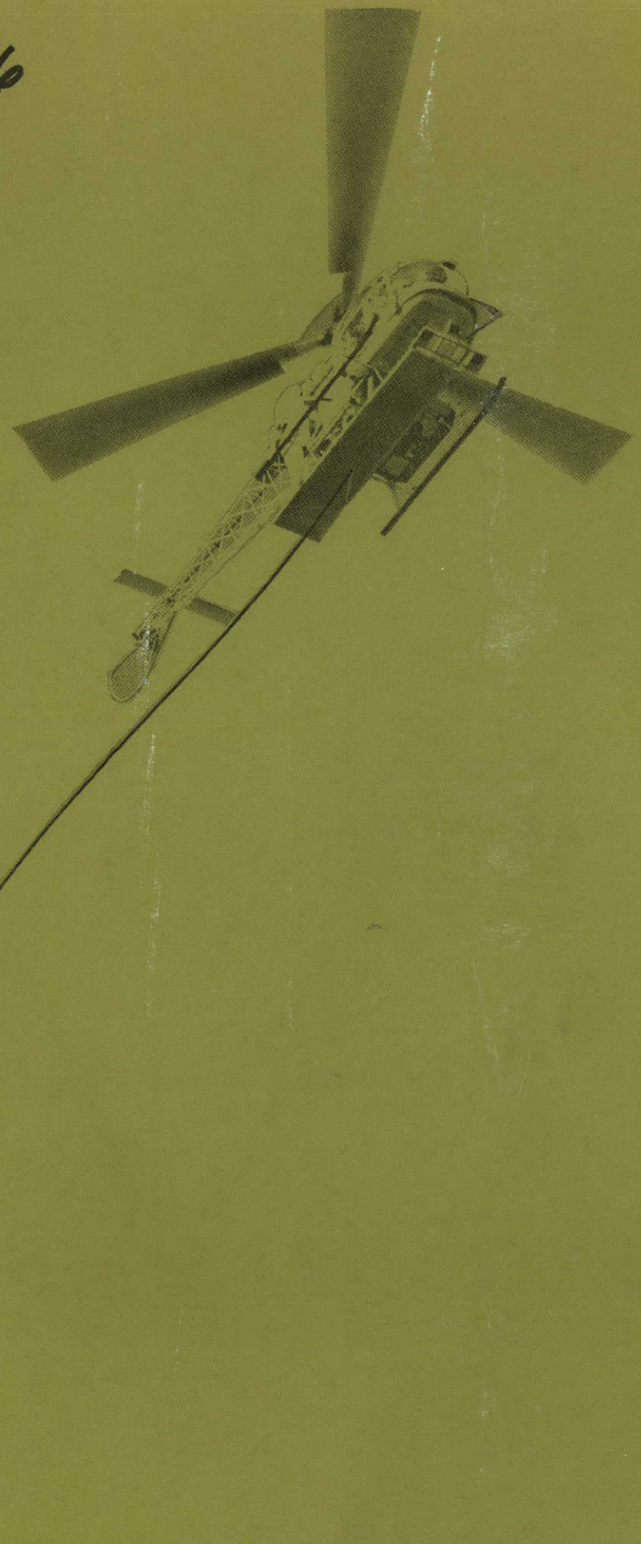

AERIAL GAMMA RAY AND MAGNETIC SURVEY
IDAHO PROJECT

NEMO DETAIL AREA,
SOUTH DAKOTA

FINAL REPORT
VOLUME II

Prepared by:

EG&G GEOMETRICS
Sunnyvale, California

April 1980

Work Performed Under
Bendix Field Engineering Corporation
Grand Junction Operations, Grand Junction, Colorado
Subcontract 79-323-S
and
Bendix Contract DE-AC13-76GJ01664

Prepared for the
Department of Energy
Grand Junction Office
Grand Junction, Colorado 81502

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ABSTRACT

The Nemo Detail area covers 40 square miles in the eastern portion of the Black Hills Uplift. The region's geology is a combination of Precambrian igneous and metamorphic rocks, and overlying Early Paleozoic sediments and metasediments. The Paleozoics cover most of the eastern half of the area.

A total of 7 groups of samples in the uranium window constitute anomalies as defined in Volume I. These anomalies occur in locales of relatively high uranium and thorium with respect to the balance of the detail area.

Magnetic data shows a wide range of gradients; but fail to show a significant degree of correlation with available geologic interpretations or the radiometric data.

Only one geochemical unit was defined on the basis of the radiometric criteria set forth in Volume I.

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INTRODUCTION

General

The Nemo Detail Area covers a 40 square mile area in westernmost South Dakota, near the southwest corner of the Rapid City 1° x 2° quadrangle (see Figure 1).

A geologic compilation map of the Rapid City quadrangle by Mineral Resources Development Inc. (1979) served as the geologic base map used in the interpretation. That portion of the map covering the detail area was mapped by Bishop and Hoffman (1964). Geologic map descriptions were taken directly from the accompanying map legend. Additional stratigraphic and structural information was taken from Mallory (1972). Topographic maps of 1:24,000 scale were used to determine the locations and possible origins of statistical anomalies, and to delineate cultural features of importance to the interpretation process.

Physiography

The detail area lies on the eastern edge of the Black Hills. The area is dominated by lightly forested uplands of the Crystal Mountain-Steamboat Rock area in the Black Hills National Forest. Elevations range from 4,250 feet at the easternmost base level of Boxelder Creek, to 5,500 feet atop an unnamed hill east of Crystal Mountain. The major portion of the detail area lies within the Boxelder Creek watershed, though portions of the western edge are drained by the Stagebarn and Little Elk Creeks. The topography is dominated by gently rolling hills, though slightly more rugged areas are common in some localities throughout the detail area.

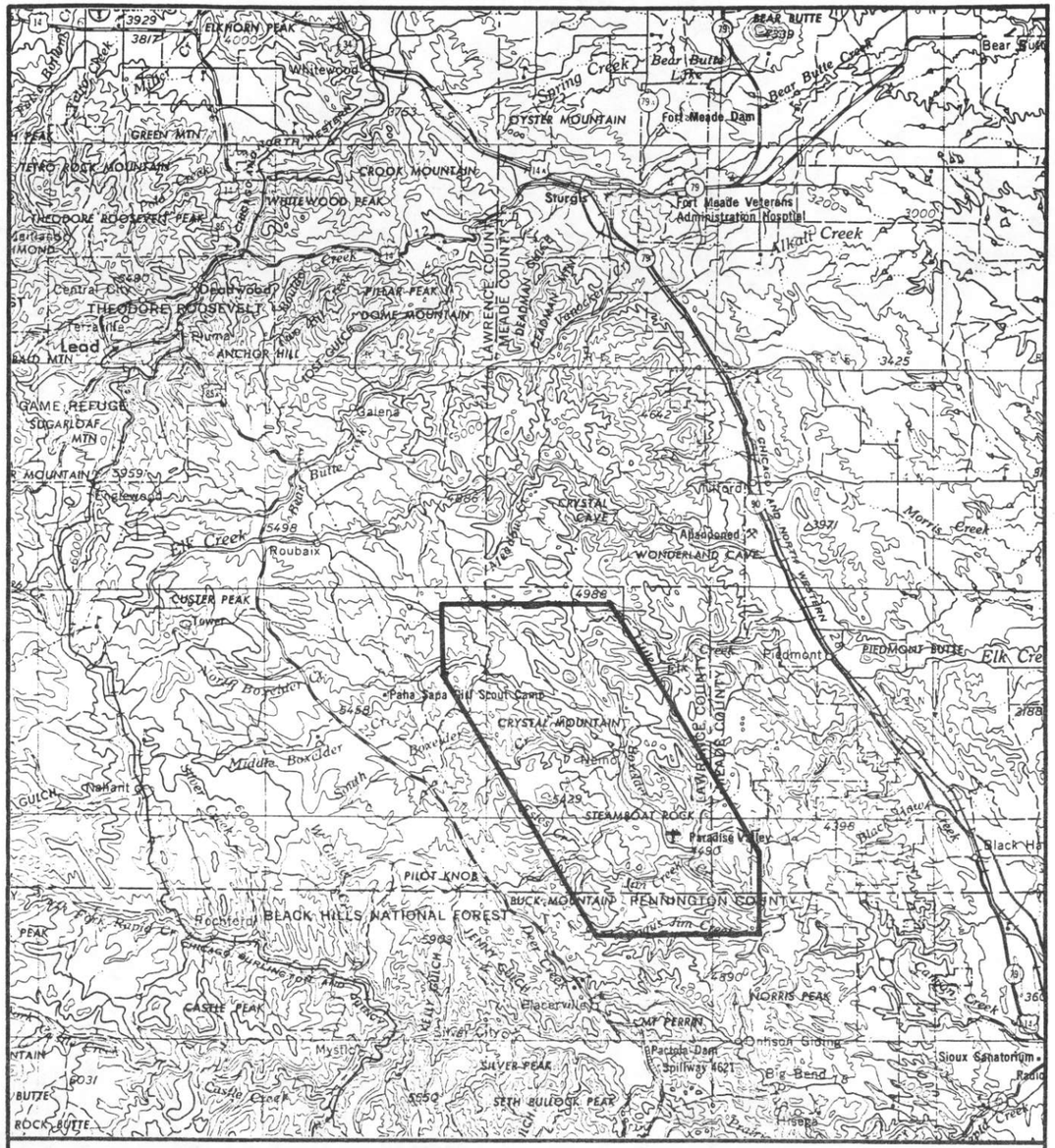
GEOLOGY

Regional Structure

The detail area lies near the axis of the Black Hills Uplift. In this portion of the uplift a large section of Precambrian rocks is exposed that ranges from Early to Middle Proterozoic in age. Portions of the area contain a thin veneer of early Paleozoic rocks.

Precambrian Rocks

The Precambrian sequence covers approximately 55% of the detail area and is largely confined to the southwestern half. The exposed



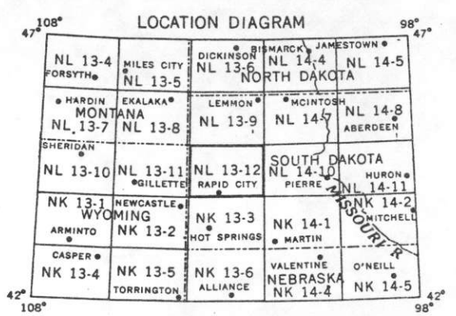


FIGURE 1

LOCATION MAP

NEMO DETAIL

Scale 1:250,000

sequence consists essentially of amphibolite facies metasediments and metaigneous rocks. Most extensive exposures are of quartzitic schists, mica schists, metadiorite and metagabbro as mapped. Impure marble, quartz hematite beds, and some lower grade metamorphics (such as slate) are also present in this sequence. The exact locations of the individual lithologies are not sufficiently well portrayed on the Mineral Resources Development Inc. map to merit more detailed discussion.

The northeastern corner of the detail area contains exposures of partially gneissoid granites and pegmatites that appear to be of Precambrian age.

Paleozoic Rocks

The Paleozoic sedimentary sequence covers most of the northeastern half of the detail area (approximately 40%). Two map units are present as mapped that represent four recognized formations of Cambrian to Mississippian age. The older map unit consists of limestones, partially glauconitic shale, sandstones, and limestone and quartz conglomerates of the Whitewood Limestone and Deadwood Formations. These two formations are of Cambrian and Ordovician age, and represent nonmarine and shallow marine sediments of early Paleozoic transgression/regression cycles.

Unconformably overlying these rocks are Devonian and Mississippian limestones, dolomites, and calcareous shales of the Pahasapa and Englewood Limestones. The Englewood Limestone represents shallow marine carbonates of the maximum extent of the Late Devonian transgression. The overlying Pahasapa Limestone is representative of a more restricted (perhaps isolated) marine environment.

Quaternary Surficial Materials

The Quaternary system, as portrayed by Mineral Resources Development Inc., covers approximately 5% of the area, and is mapped as alluvium in the lower Boxelder and Jim Creek drainages. Quaternary surficial cover may be more extensive and contain a wider variety of deposits than as mapped, but more detailed geologic studies of the area were not readily available at the time of this report.

Uranium

Though the Black Hills area contains numerous known uranium deposits, none are known to exist in the detail area. The nearby Lead Mining District (Au), with mineralization occurring in Precambrian (?) rocks is not known to contain significant amounts of uranium according to available literature, nor does it extend into the detail area.

Interpretation of Geophysical Data

Uranium Anomaly Detection

A total of 7 uranium "anomalies" meet the minimum criteria set forth in the data interpretation section. These are displayed, along with other pertinent information, on the Uranium Anomaly/Interpretation Map (Figure 2). The potassium, uranium, thorium, and ratio contour maps appear in Appendix C, and flight line profiles are found in Appendix B. The uranium anomaly summary table is found in Appendix E. Discussion of the abundances of potassium, uranium, and thorium are in terms of apparent equivalent percent and equivalent ppm. These equivalent units are derived from scaling of counts per second data by the sensitivities calculated for the detection system. They do not directly correspond to real geochemical data.

The survey-wide average concentration for uranium is 1.61 ppmeU (see histogram in Appendix D). Areas with concentrations of 3.0 ppmeU or more (more than standard deviations above the mean) are almost exclusively confined to two localities. One of these areas lies near the settlement of Tomahawk (peak concentrations of 5.62 ppmeU) and a region just west of Steamboat Rock, in the gully of a tributary of Jim Creek (peak concentration of 4.46 ppmeU). Both of these localities lie within a portion of the detail area mapped as Precambrian mixed metasediments (unit ARG as mapped by Mineral Resources Deveopment, Inc., 1979). Average and below average concentrations persist over most of the rest of the detail area. Line 1010 appears to have slightly higher uranium concentrations than the traverse lines that cross it, as well as slightly lower BiAir and temperature ranges. This suggests some weather phenomenon may have interfered with the collection of the data on this line.

The average concentrations for potassium and thorium are 1.14 equivalent percent and 5.83 ppmeT respectively. Thorium shows a geographic range of high concentration values similar to uranium. Highest concentrations occur in the Tomahawk area at 23.99 ppmet. Potassium does not show the same degree of correlation with uranium that thorium does. High concentration areas appear to overlie exposed mafic metaigneous rocks (amphibolite), whereas lowest concentration values generally correspond to the exposed Paleozoic section.

Anomalies are essentially confined to the high uranium count areas. The peak concentration value in anomaly 4 (in the Tomahawk area) is 3.08 ppmeU. In anomaly 6 (east of Steamboat Rock) peak concentrations are as high as 3.45 ppmeU. Highest peak concentrations are found in anomalies 2 and 5, both of which lie on the western edge of the detail area. These anomalies are spatially the largest in the detail area and contain many slightly anomalous samples (between 1 and 2 standard deviations above the mean). Peak concentrations in anomalies 2 and 5 are 3.97 ppmeU and 3.68 ppmeU respectively.

NEMO

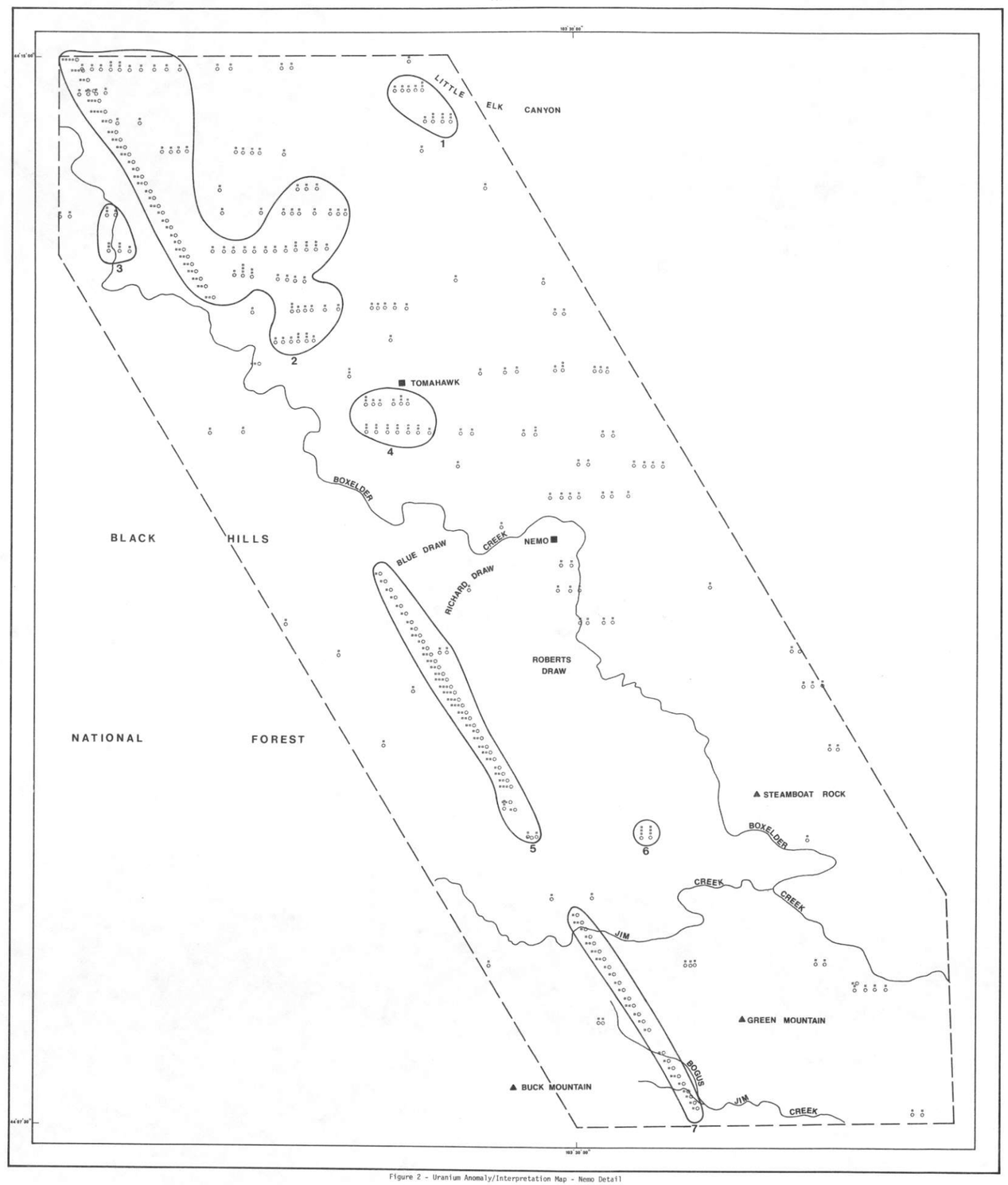


Figure 2 - Uranium Anomaly/Interpretation Map - Nemo Detail

URANIUM ANOMALY/ INTERPRETATION MAP

NEMO DETAIL

U.S. DEPARTMENT OF ENERGY

APPROXIMATE SCALE 1 : 62,500

EXPLANATION

■ – CITY OR TOWN

⁺₀ – URANIUM SAMPLE MEETING FOLLOWING CRITERIA:

(1) $1.0 \leq U \leq \infty$

(2) $-1.0 \leq T \leq \infty$

(3) $1.0 \leq U/T \leq \infty$

IN STANDARD DEVIATION UNITS.
EACH SQUARE REPRESENTS 1 STANDARD DEVIATION.

▦ – URANIUM ANOMALY:

A SINGLE SAMPLE OF 3 OR MORE STANDARD DEVIATIONS OR GROUP OF ADJOINING SAMPLES WHICH TOGETHER TOTAL 4 OR MORE STANDARD DEVIATIONS, $4.0 \leq \text{sum} \leq \infty$, WITH AT LEAST ONE SAMPLE OF 2 OR MORE STANDARD DEVIATIONS.

N

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

In summary, further detailed geologic investigation may be warranted in the areas covered by anomalies 2, 4, 5, and 6. The lack of any available detailed geologic investigation reports for this region minimizes the significance of further interpretive statements that might be made.

Magnetic Data

The magnetic field contour map is shown in Appendix C. Portions of the magnetic data were removed from the data set because the gradients were too extreme (in excess of 1,000 gammas per sample) for the instrument to measure correctly. These areas appear as blank regions in the profiles. Despite the previously mentioned problem, the detail area shows remarkable contrast between high and low gradient areas. No truly definite correlation exists between the magnetic field and the mapped geology. This may in part be due to the generalized nature of the geologic map. Highest and lowest gradient areas cross all geoligc contacts. Transitions between the high and low gradient areas appears gradational. The major trends of high gradient areas appears to roughly parallel the foliation trends in the Precambrian, where they are exposed, but the Paleozoic section in the east covers any underlying (Precambrian?) units that might compare more readily with the magnetic data.

No obvious relationship between the magnetic data and the radiometric data can be seen. Keeping in mind what the magnetometer and the spectrometer measure, the lack of any apparent relationship is not surprising.

Geochemical Analysis

Based upon the criteria set forth in the Geochemical Analysis section of Volume I, only one distinct geochemical unit is clearly definable in the study area. Though the potassium histogram shows an indistinct multimodality, the populations have too similar a concentration range to be separable by potassium alone. Multimodality is not readily apparent in any other radioelement or ratio.

The concentrations of the three radioelements is relatively higher in certain portions of the map, but the high concentration values appear in the histograms as part of a single population.

Available geologic maps of the area argue against a single radiometric population because of the wide variety of lithologic units present. More detailed geologic coverage might yield a different conclusion but such maps do not appear to be available. One possible conclusion about the similarity of the radiometric signatures in the area despite the apparent number of mappable geologic units is that the low overall concentrations of the three radioelements force them into similarity. If all the rock units have low K, U, and T concentrations, the sample population for each unit is distributed much closer to the origin, (since no area can have negative concentrations) and thus tend to blend in with one another. This could be one of the most difficult problems to covercome in the areal geochemical mapping process.

Multivariate Analysis

All results of the principal component analysis are presented in Appendix E, including the variables used, the covariance matrix, and the principal component (eigenvator) matrix.

The original intent of the classification scheme outlined in the work statement was not specified by BFEC and therefore will not be addressed.

The first principal component accounts for only 28 percent of the total variance. This component is best correlated with variables 3, 7, 8, and 11 (essentially high K, U, and T). Though the covariance matrix does show the largest degree of correlation between these variables, the correlation is not high. The best correlation is made between variables 7 ($1.0 < U \geq 3.0$ stand. dev.) and 11 ($T > 1.0$ stand. dev.).

In order to create an understandable picture of the lithologic associations of potassium, uranium, and thorium, these data should be compared with a more detailed geologic study of the area (including petrographic and conventional geochemical analyses). Other metamorphic environments should be examined in a similar fashion. In this manner, some insight can be gained as to the mineralogical habits of the radioelements in metamorphic provinces.

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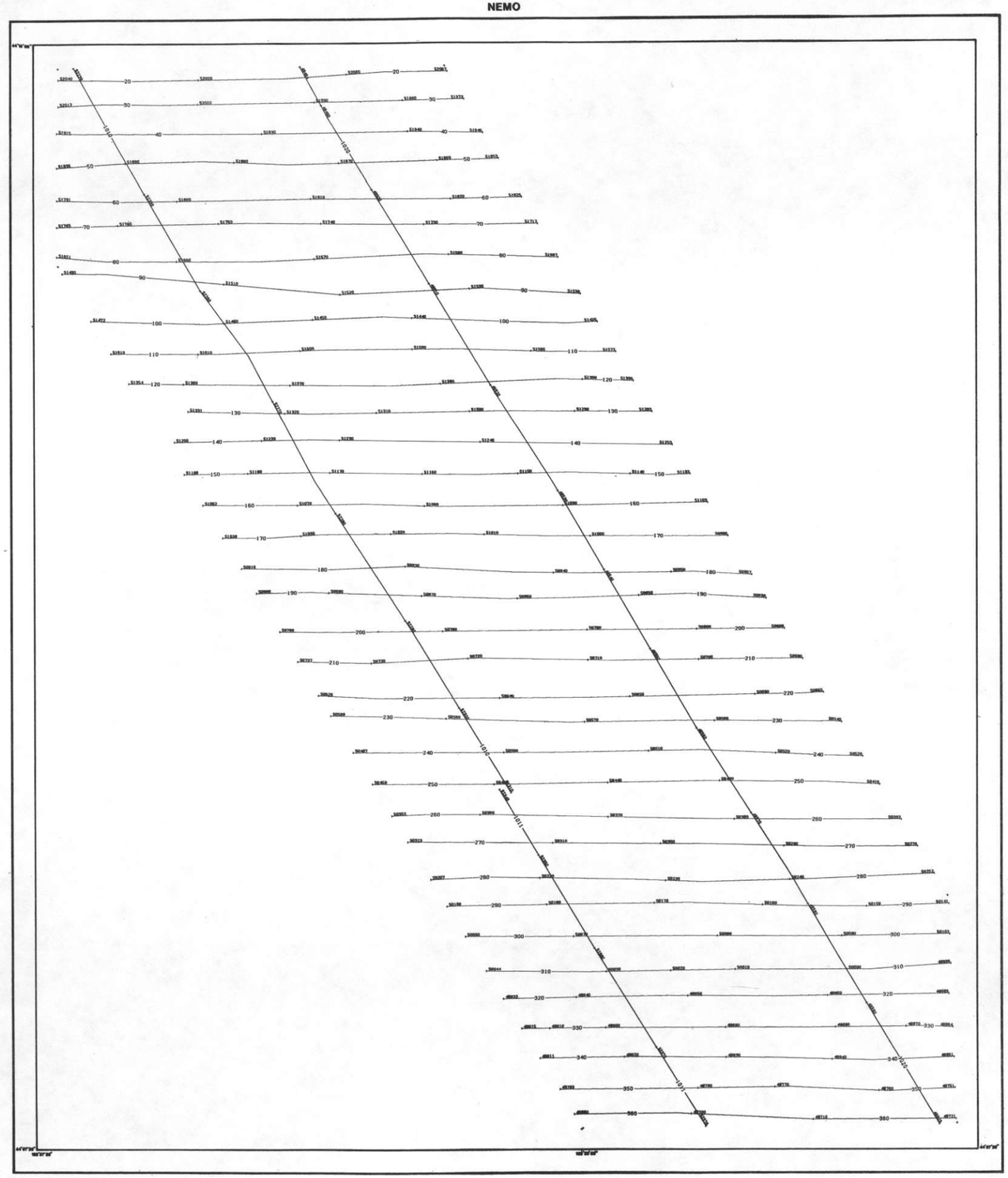
APPENDIX A - Flight Path

NEMO



FLIGHT PATH RECOVERY

NEMO DETAIL AREA

U.S. DEPARTMENT OF ENERGY

APPROXIMATE SCALE 1:62,500

FIDUCIAL NUMBER

123406 053-0 123606

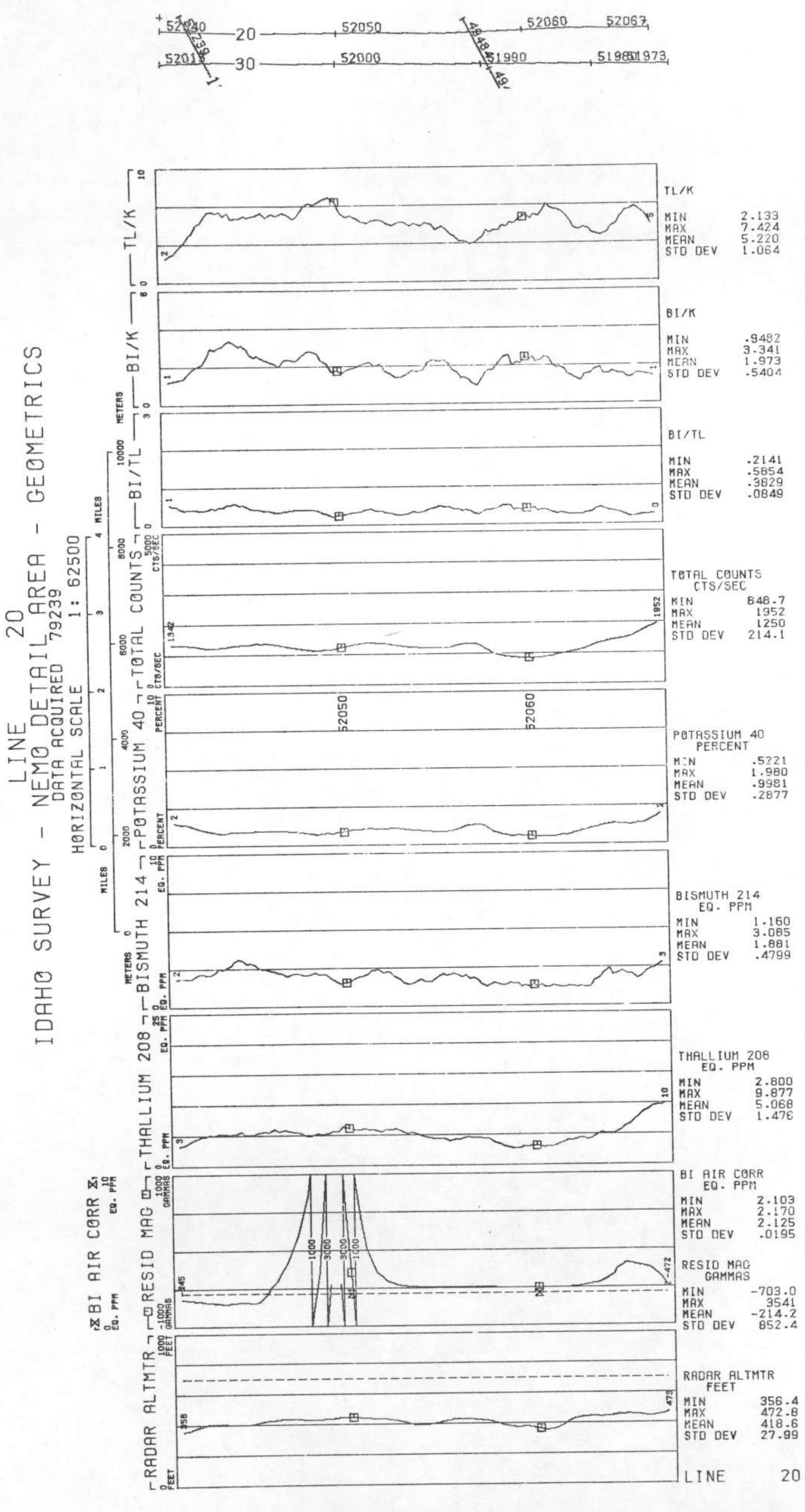
LINE NUMBER

FLIGHT LINE SPACING ..... 0.25 MILE(S)
FLIGHT ALTITUDE ..... 400 FEET MTC
FLOWN AND COMPILED 1979-1980

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

APPENDIX B - Profiles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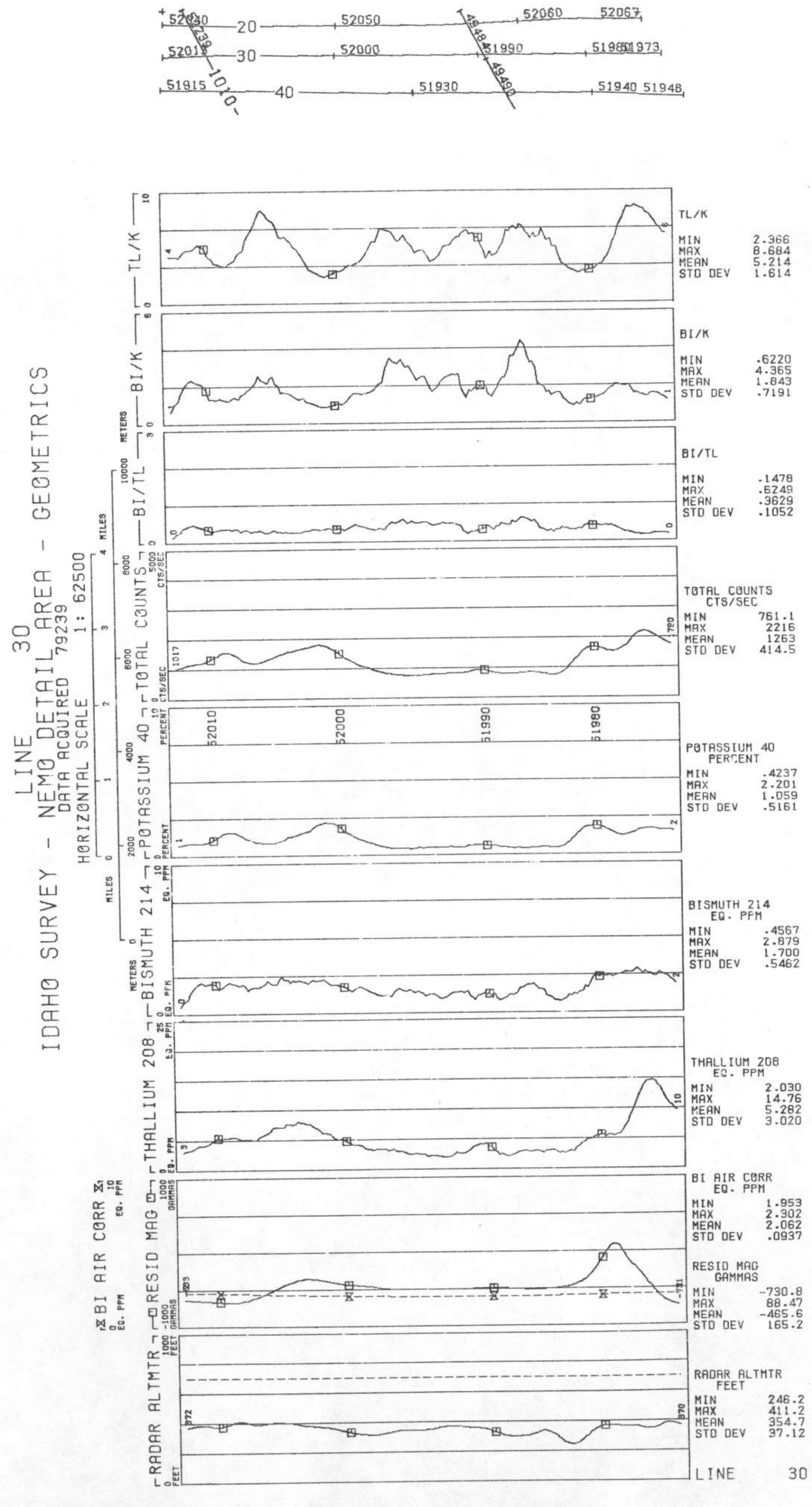
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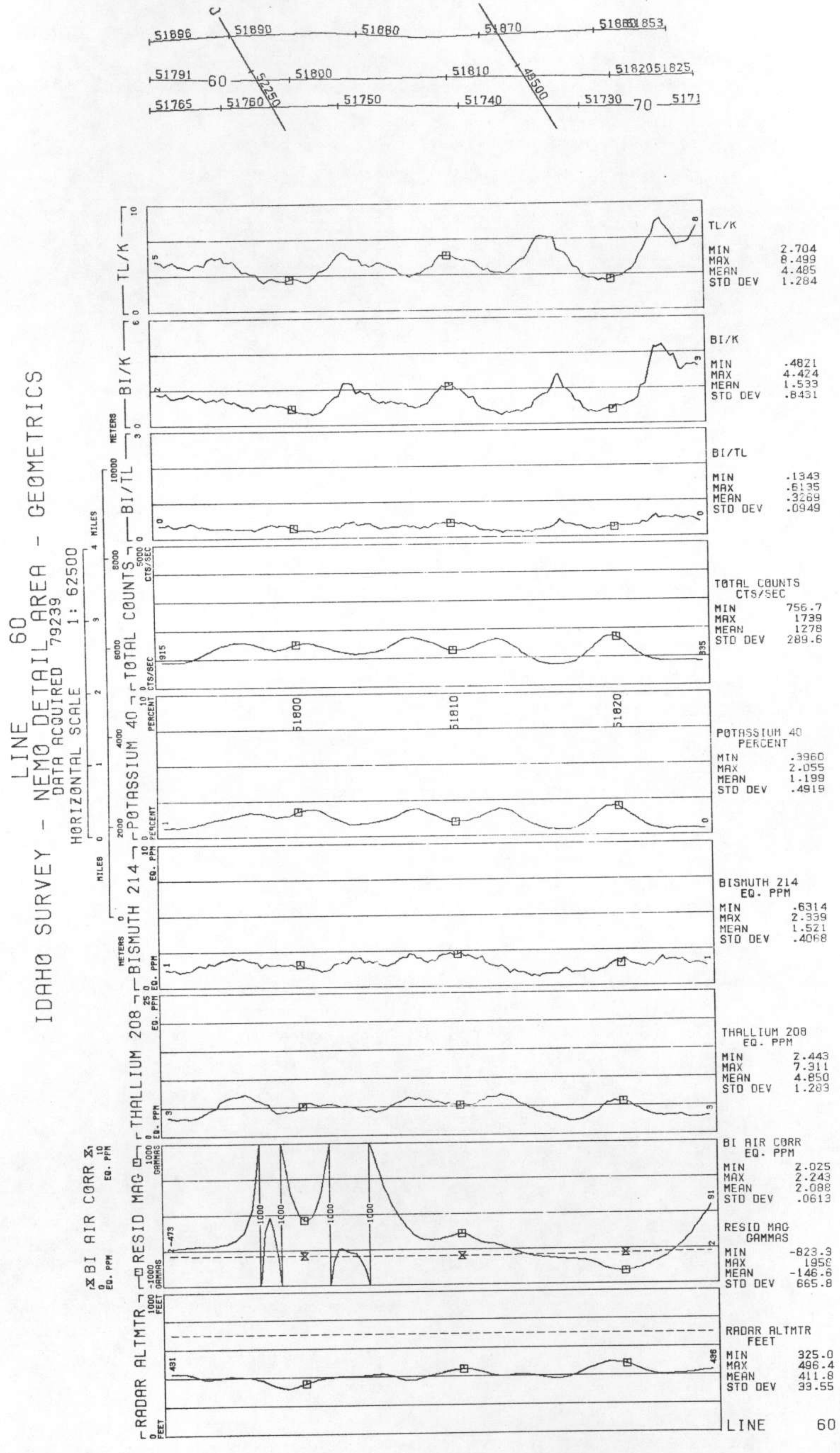
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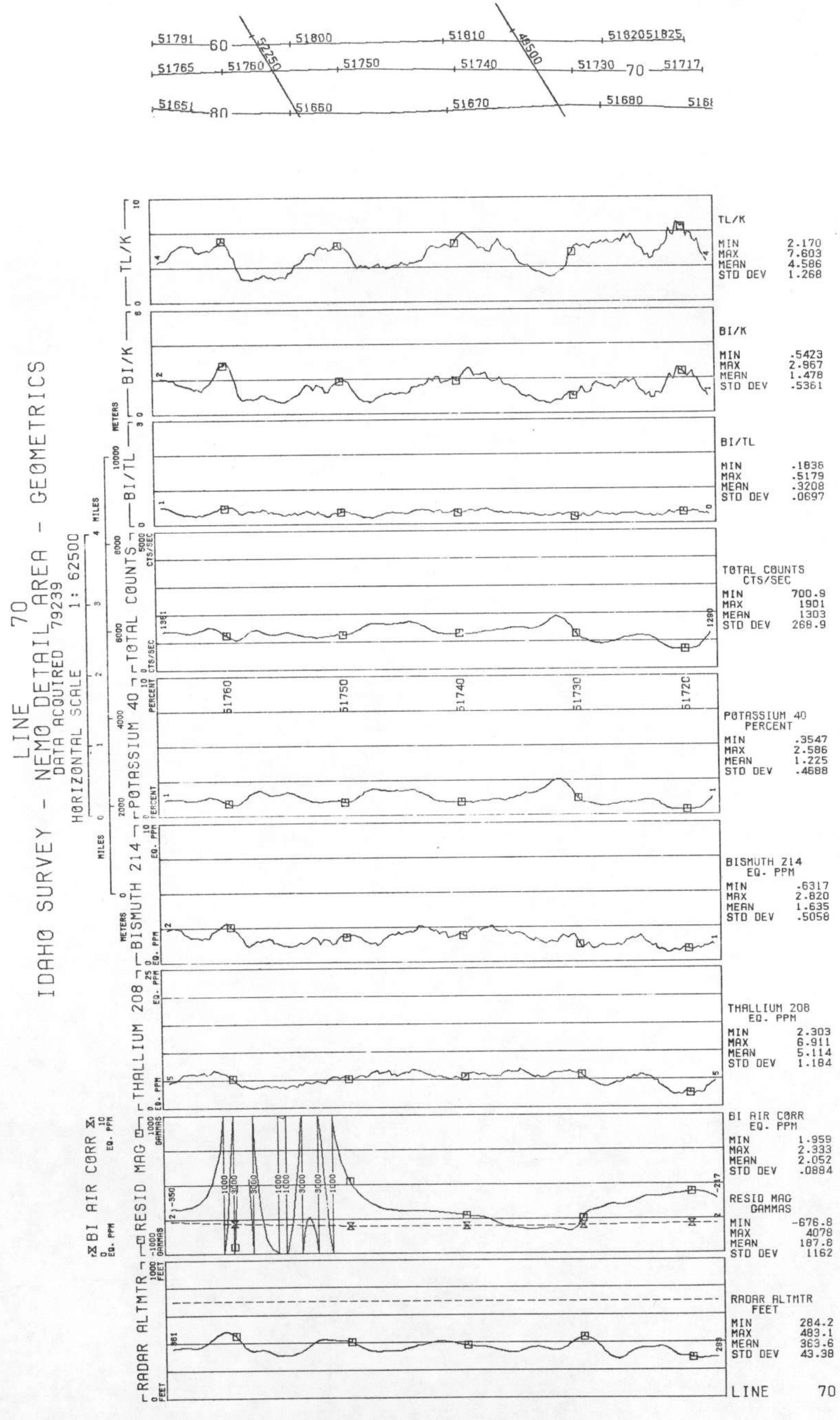
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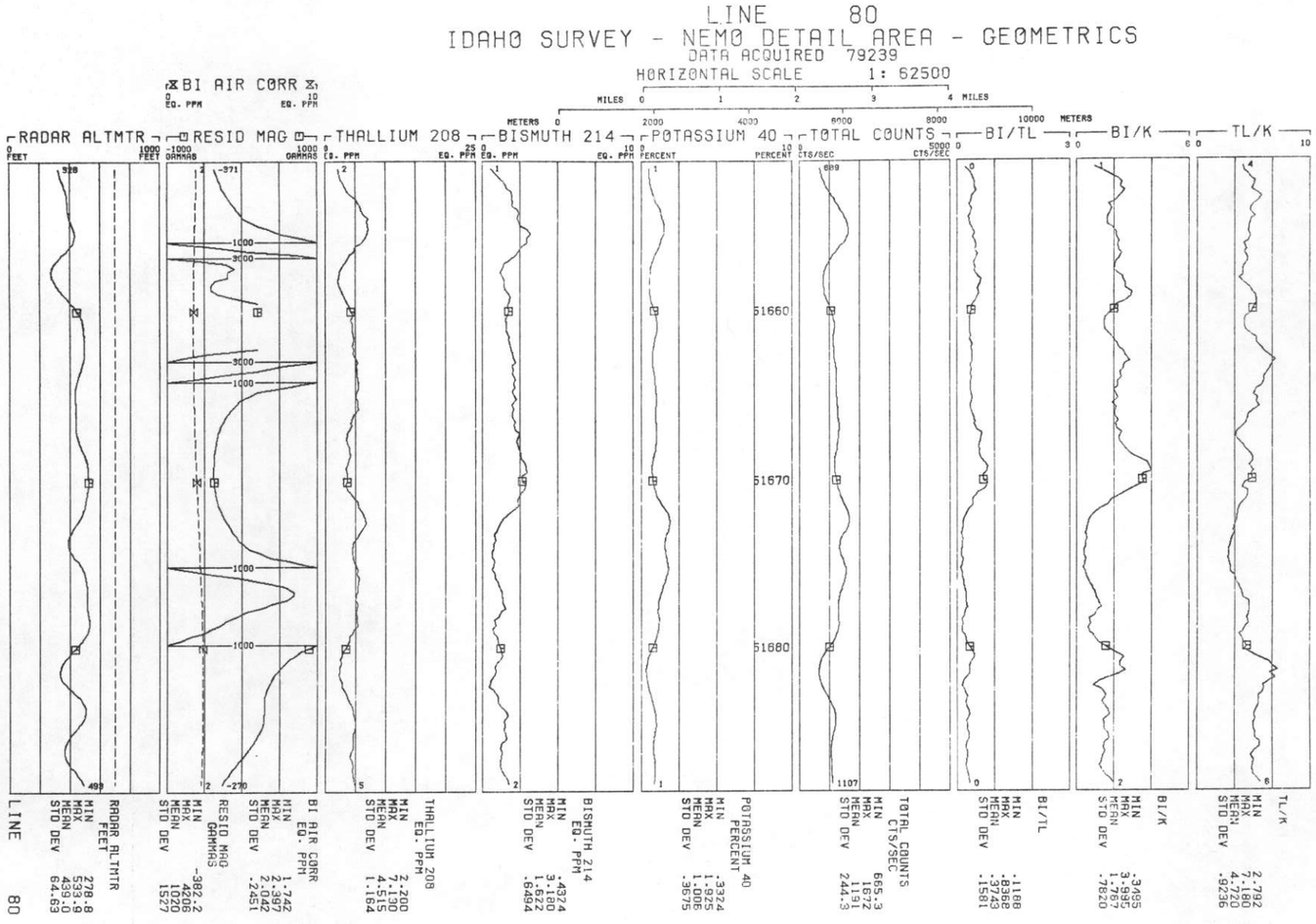
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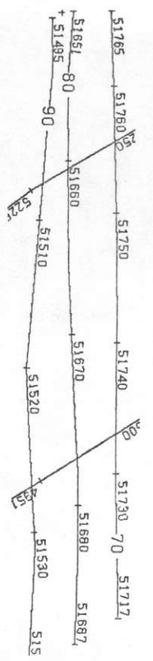
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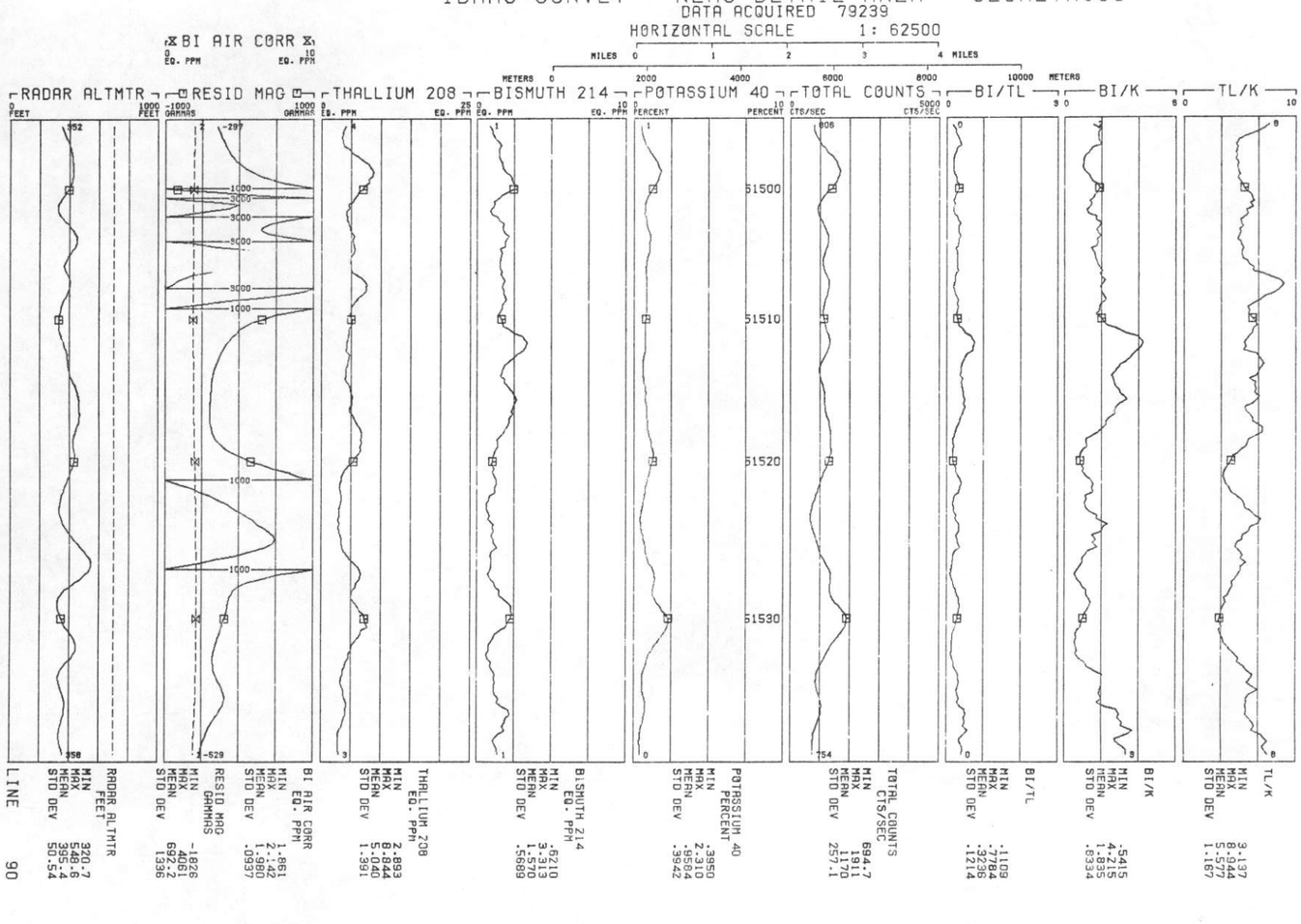
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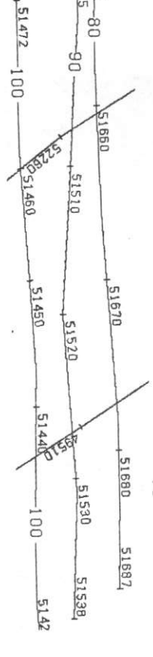
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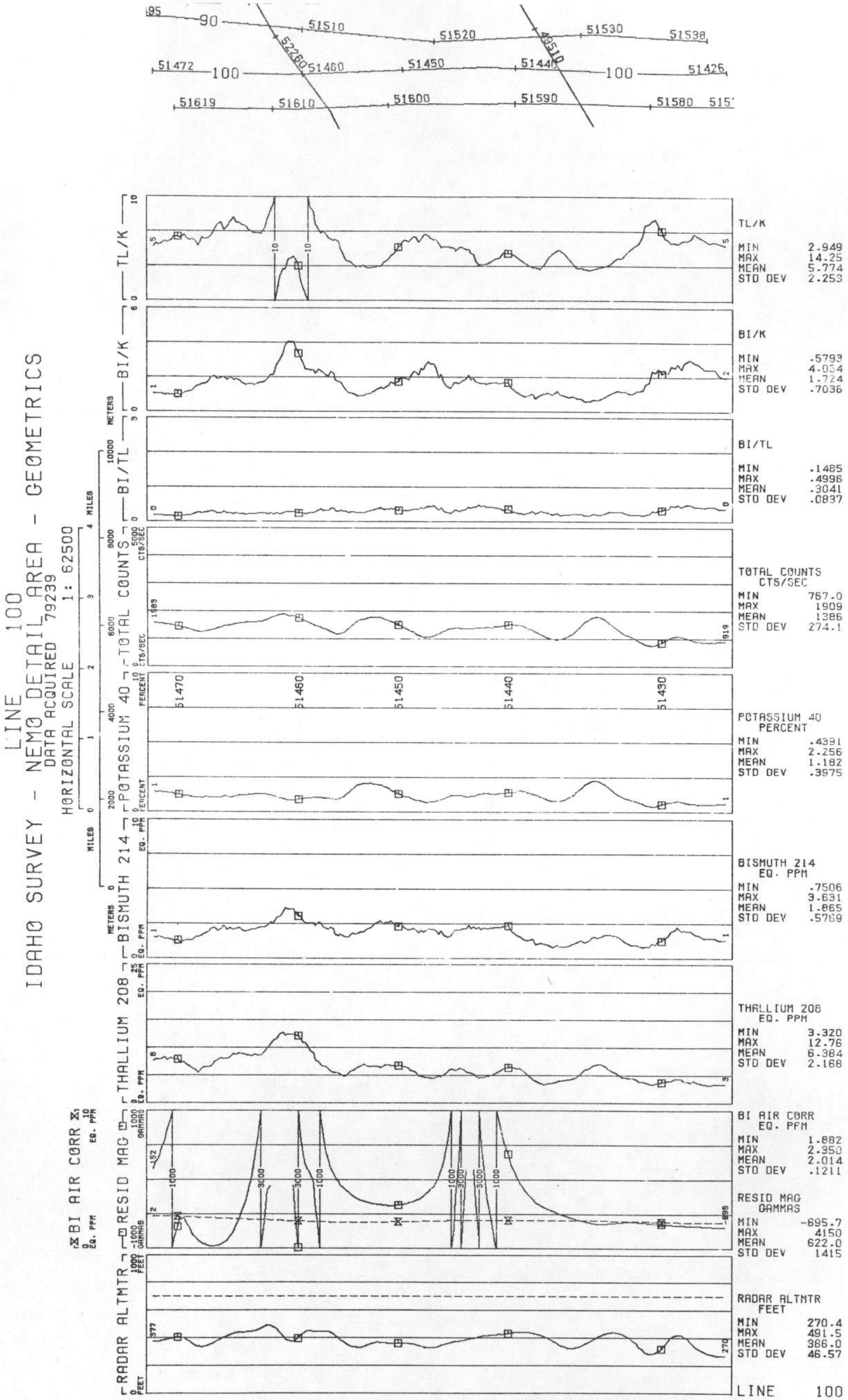
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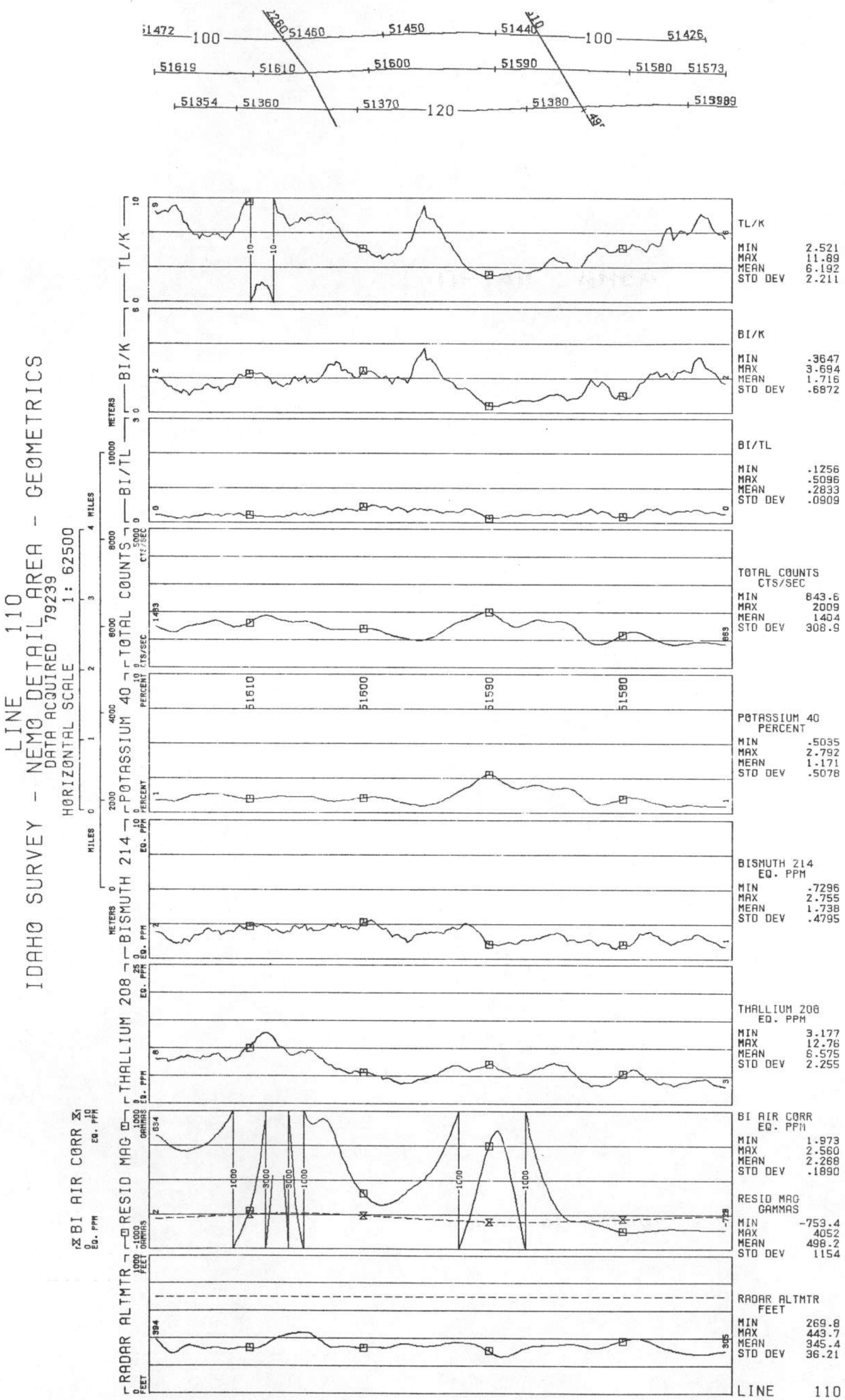
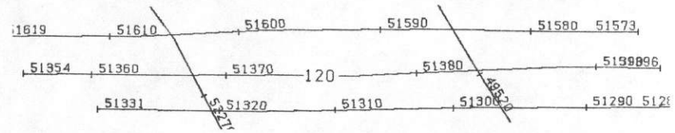
MAX 2.256
MEAN 1.182
STD DEV .3975
BISMUTH 214 EQ. PPM
MIN .7506
MAX 3.631
MEAN 1.865
STD DEV .5769
THALLIUM 208 EQ. PPM
MIN 3.320
MAX 12.76
MEAN 6.384
STD DEV 2.168
BI AIR CORR EQ. PPM
MIN 1.882
MAX 2.350
MEAN 2.014
STD DEV .1211
RESID MAG GAMMAS
MIN -695.7
MAX 4150
MEAN 622.0
STD DEV 1415
RADAR ALTMTR FEET
MIN 270.4
MAX 491.5
MEAN 386.0
STD DEV 46.57
LINE 100

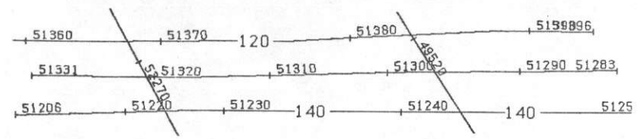

LINE 110
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 2.521
MAX 11.89
MEAN 6.192
STD DEV 2.211
BI/K
MIN .3647
MAX 3.694
MEAN 1.716
STD DEV .6872
BI/TL
MIN .1256
MAX .5096
MEAN .2833
STD DEV .0909
TOTAL COUNTS CTS/SEC
MIN 843.6
MAX 2009
MEAN 1404
STD DEV 308.9
POTASSIUM 40 PERCENT
MIN .5035
MAX 2.792
MEAN 1.171
STD DEV .5078
BISMUTH 214 EQ. PPM
MIN .7296
MAX 2.755
MEAN 1.738
STD DEV .4795
THALLIUM 208 EQ. PPM
MIN 3.177
MAX 12.76
MEAN 6.575
STD DEV 2.255
BI AIR CORR EQ. PPM
MIN 1.973
MAX 2.560
MEAN 2.268
STD DEV .1890
RESID MAG GAMMAS
MIN -753.4
MAX 4052
MEAN 498.2
STD DEV 1154
RADAR ALTMTR FEET
MIN 269.8
MAX 443.7
MEAN 345.4
STD DEV 36.21
LINE 110



LINE 120
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

TL/K — MIN 3.095, MAX 21.39, MEAN 7.382, STD DEV 3.813
BI/K — MIN .7054, MAX 4.986, MEAN 2.083, STD DEV .8656
BI/TL — MIN .1399, MAX .6441, MEAN .3048, STD DEV .0939
TOTAL COUNTS CTS/SEC — MIN 912.8, MAX 2786, MEAN 1539, STD DEV 420.4
POTASSIUM 40 PERCENT — MIN .6016, MAX 2.100, MEAN 1.150, STD DEV .3314
BISMUTH 214 EQ. PPM — MIN .5796, MAX 5.621, MEAN 2.266, STD DEV .8599
THALLIUM 208 EQ. PPM — MIN 2.745, MAX 23.99, MEAN 8.213, STD DEV 4.423
BI AIR CORR EQ. PPM — MIN 1.587, MAX 2.235, MEAN 1.943, STD DEV .2188
RESID MAG GAMMAS — MIN -762.7, MAX 2478, MEAN 243.9, STD DEV 807.3
RADAR ALTMTR FEET — MIN 290.7, MAX 500.0, MEAN 410.0, STD DEV 48.89

LINE 120



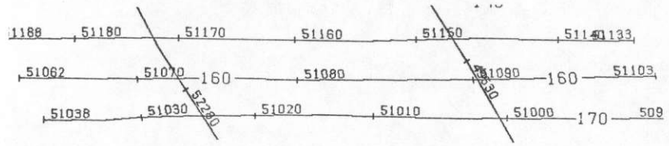
LINE 130
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

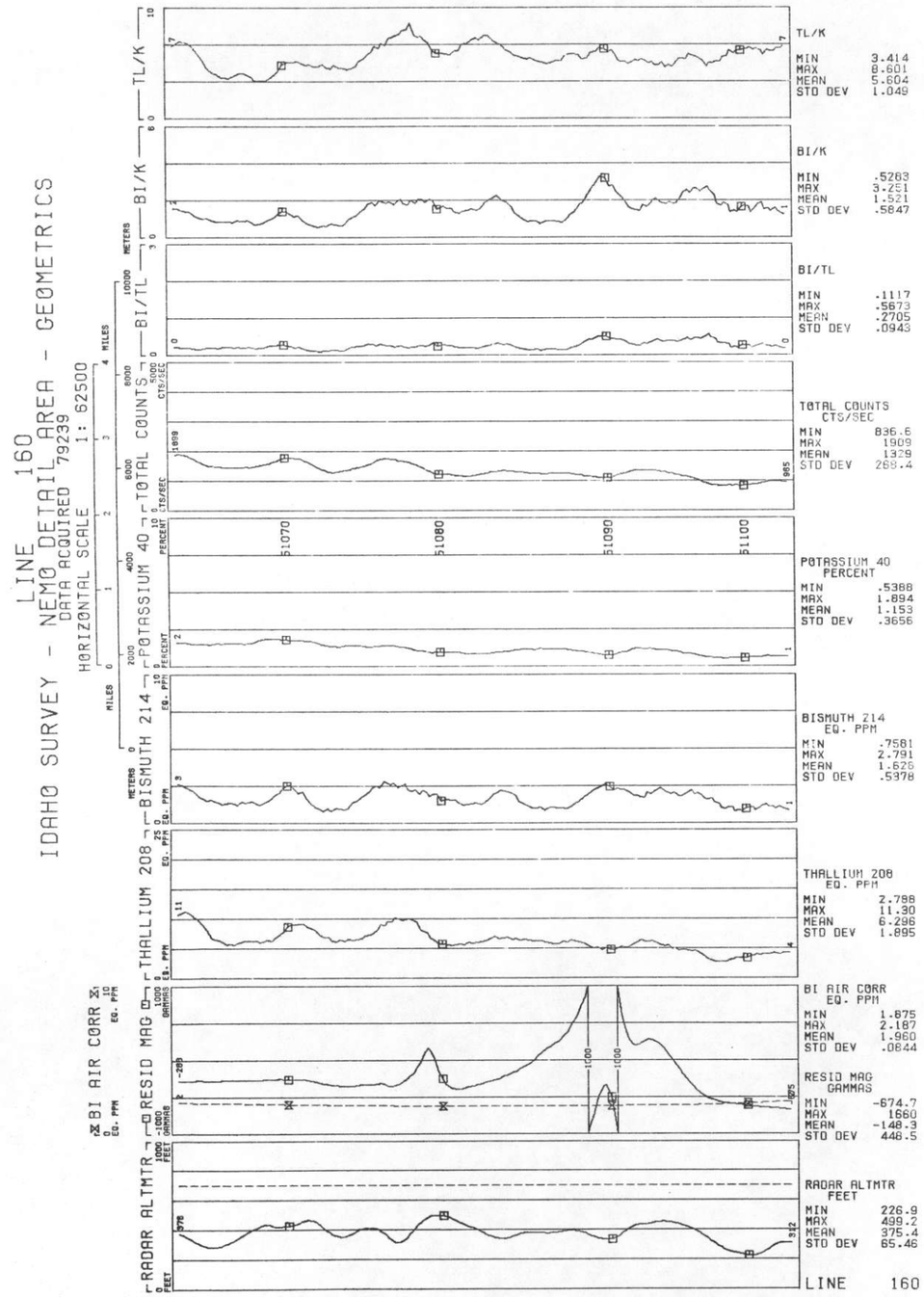
TL/K — MIN 4.121, MAX 14.84, MEAN 7.501, STD DEV 2.405
BI/K — MIN .7459, MAX 3.589, MEAN 1.915, STD DEV .7364
BI/TL — MIN .0964, MAX .4704, MEAN .2590, STD DEV .0771
TOTAL COUNTS CTS/SEC — MIN 836.2, MAX 2187, MEAN 1529, STD DEV 344.2
POTASSIUM 40 PERCENT — MIN .4345, MAX 1.878, MEAN 1.151, STD DEV .3645
BISMUTH 214 EQ. PPM — MIN .5383, MAX 3.607, MEAN 2.042, STD DEV .6678
THALLIUM 208 EQ. PPM — MIN 3.237, MAX 16.43, MEAN 8.372, STD DEV 3.128
BI AIR CORR EQ. PPM — MIN 1.895, MAX 2.768, MEAN 2.213, STD DEV .2289
RESID MAG GAMMAS — MIN -757.6, MAX 2877, MEAN 195.3, STD DEV 716.1
RADAR ALTMTR FEET — MIN 231.9, MAX 454.2, MEAN 333.3, STD DEV 45.23

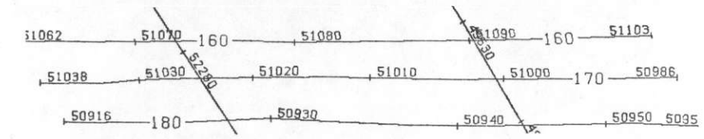
LINE 130

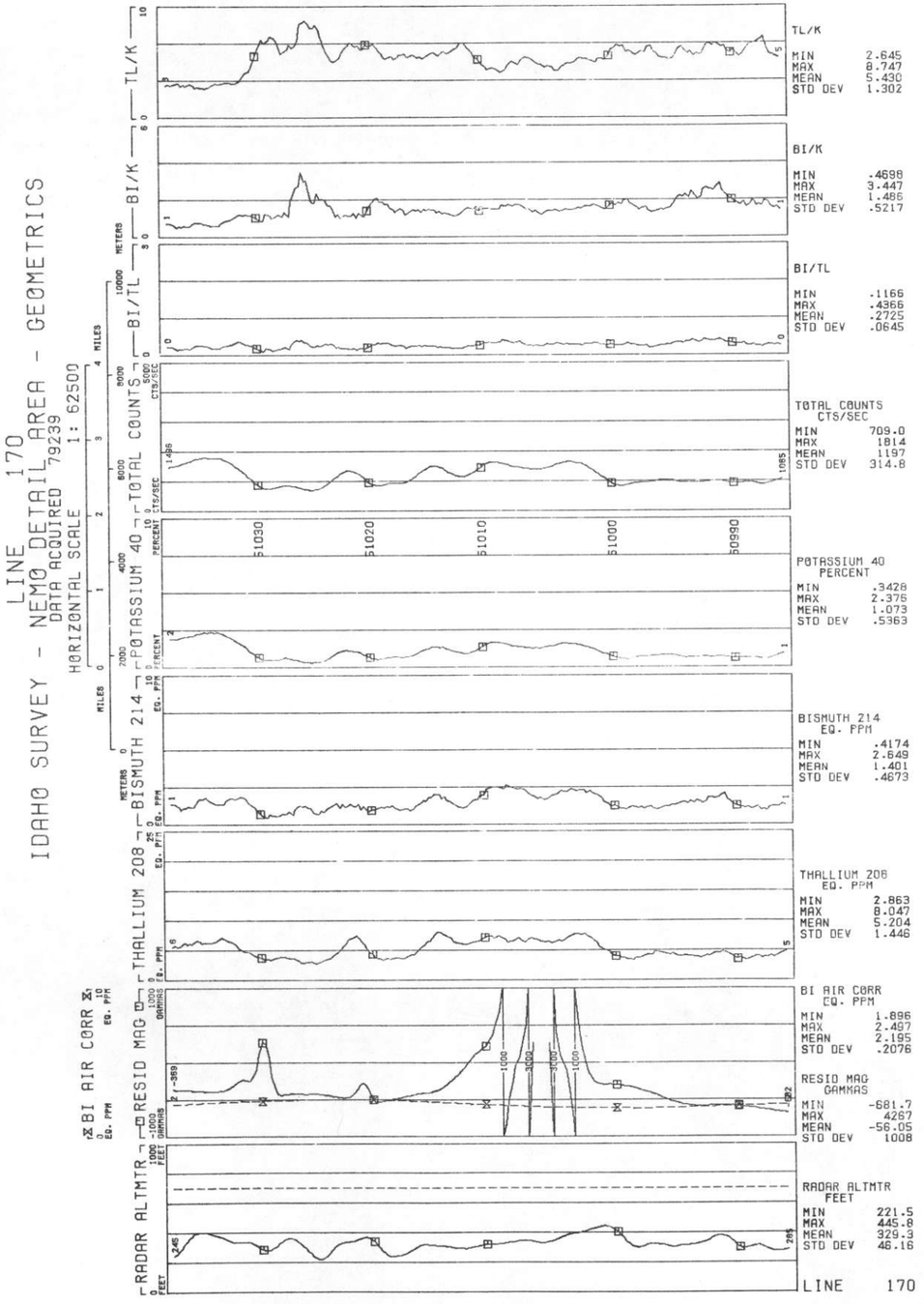
51331
51320
51310
51300
51290 51283
51206
51200
51230
140
51240
140
51253
51188
51180
51170
51160
51150
51133
TL/K
MIN 3.351
MAX 8.225
MEAN 6.058
STD DEV 1.121
BI/K
MIN .8437
MAX 3.421
MEAN 1.893
STD DEV .5166
BI/TL
MIN .1196
MAX .6112
MEAN .3199
STD DEV .0924
TOTAL COUNTS CTS/SEC
MIN 802.3
MAX 1908
MEAN 1355
STD DEV 293.3
POTASSIUM 40 PERCENT
MIN .5496
MAX 1.603
MEAN 1.062
STD DEV .2922
BISMUTH 214 EQ. PPM
MIN .8665
MAX 3.043
MEAN 1.939
STD DEV .5507
THALLIUM 208 EQ. PPM
MIN 2.274
MAX 11.13
MEAN 6.500
STD DEV 2.299
BI AIR CORR EQ. PPM
MIN 1.961
MAX 2.125
MEAN 2.042
STD DEV .0534
RESID MAG GAMMAS
MIN -712.6
MAX 2198
MEAN -19.27
STD DEV 515.6
RADAR ALTMTR FEET
MIN 281.5
MAX 521.3
MEAN 394.5
STD DEV 47.13
LINE 140
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 140
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

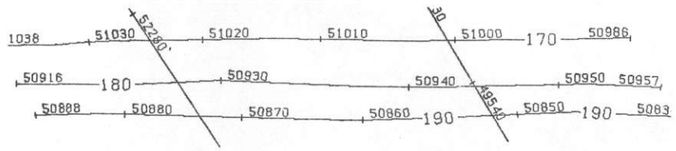
51206
51200
51230
140
51240
140
51253
51188
51180
51170
51160
51150
51133
51062
51070
160
51080
51090
160
TL/K
MIN 3.623
MAX 9.068
MEAN 5.988
STD DEV 1.194
BI/K
MIN .4096
MAX 3.993
MEAN 1.577
STD DEV .7351
BI/TL
MIN .0715
MAX .5857
MEAN .2619
STD DEV .1043
TOTAL COUNTS CTS/SEC
MIN 833.4
MAX 1856
MEAN 1360
STD DEV 262.3
POTASSIUM 40 PERCENT
MIN .5373
MAX 1.754
MEAN 1.145
STD DEV .3250
BISMUTH 214 EQ. PPM
MIN .2976
MAX 2.814
MEAN 1.646
STD DEV .4709
THALLIUM 208 EQ. PPM
MIN 2.932
MAX 11.04
MEAN 6.713
STD DEV 1.974
BI AIR CORR EQ. PPM
MIN 1.542
MAX 2.469
MEAN 2.050
STD DEV .2620
RESID MAG GAMMAS
MIN -734.0
MAX 1406
MEAN -121.1
STD DEV 462.8
RADAR ALTMTR FEET
MIN 275.2
MAX 458.0
MEAN 343.9
STD DEV 44.26
LINE 150
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 150
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500


1188 51180 51170 51160 51150 51140 133
51062 51070 160 51080 51090 160 51103
51038 51030 51020 51010 51000 170 509
52250
52250


LINE 160
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 3.414
MAX 8.601
MEAN 5.604
STD DEV 1.049
BI/K
MIN .5263
MAX 3.251
MEAN 1.521
STD DEV .5847
BI/TL
MIN .1117
MAX .5673
MEAN .2705
STD DEV .0943
TOTAL COUNTS CTS/SEC
MIN 836.6
MAX 1909
MEAN 1329
STD DEV 288.4
POTASSIUM 40 PERCENT
MIN .5388
MAX 1.894
MEAN 1.153
STD DEV .3656
BISMUTH 214 EQ. PPM
MIN .7581
MAX 2.791
MEAN 1.626
STD DEV .5378
THALLIUM 208 EQ. PPM
MIN 2.788
MAX 11.30
MEAN 6.296
STD DEV 1.895
BI AIR CORR EQ. PPM
MIN 1.875
MAX 2.187
MEAN 1.960
STD DEV .0844
RESID MAG GAMMAS
MIN -674.7
MAX 1660
MEAN -148.3
STD DEV 448.5
RADAR ALTMTR FEET
MIN 226.9
MAX 499.2
MEAN 375.4
STD DEV 65.46
LINE 160


51062 51070 160 51080 51090 160 51103
51038 51030 51020 51010 51000 170 50986
50916 180 50930 50940 50950 5035
52250
52250


LINE 170
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 2.645
MAX 8.747
MEAN 5.430
STD DEV 1.302
BI/K
MIN .4698
MAX 3.447
MEAN 1.486
STD DEV .5217
BI/TL
MIN .1166
MAX .4366
MEAN .2725
STD DEV .0645
TOTAL COUNTS CTS/SEC
MIN 709.0
MAX 1814
MEAN 1197
STD DEV 314.8
POTASSIUM 40 PERCENT
MIN .3428
MAX 2.375
MEAN 1.073
STD DEV .5363
BISMUTH 214 EQ. PPM
MIN .4174
MAX 2.649
MEAN 1.401
STD DEV .4873
THALLIUM 208 EQ. PPM
MIN 2.863
MAX 8.047
MEAN 5.204
STD DEV 1.446
BI AIR CORR EQ. PPM
MIN 1.896
MAX 2.497
MEAN 2.195
STD DEV .2076
RESID MAG GAMMAS
MIN -681.7
MAX 4267
MEAN -56.05
STD DEV 1008
RADAR ALTMTR FEET
MIN 221.5
MAX 445.8
MEAN 329.3
STD DEV 46.16
LINE 170


1038
51030
51020
51010
51000
170
50986
50916
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50957
50888
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50850
190
5083
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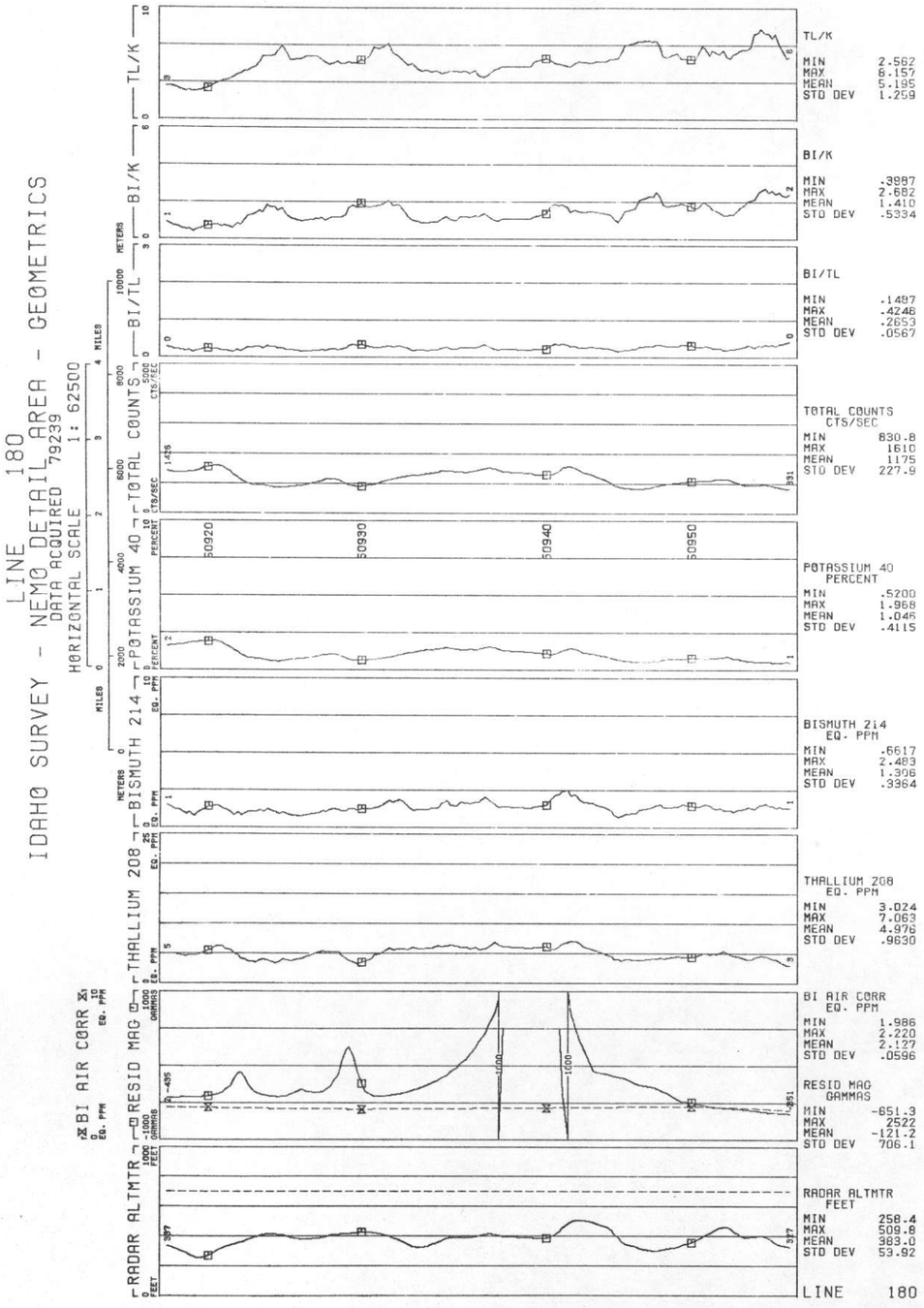
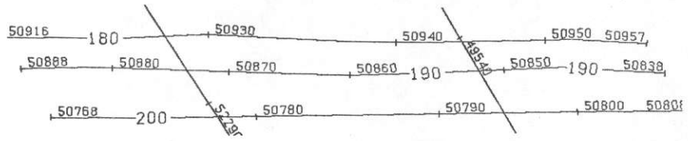
527.80'


LINE
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
180
TL/K
MIN 2.562
MAX 6.157
MEAN 5.195
STD DEV 1.259
BI/K
MIN .3987
MAX 2.682
MEAN 1.410
STD DEV .5334
BI/TL
MIN .1497
MAX .4248
MEAN .2653
STD DEV .0567
TOTAL COUNTS CTS/SEC
MIN 830.8
MAX 1610
MEAN 1175
STD DEV 227.9
POTASSIUM 40 PERCENT
MIN .5200
MAX 1.968
MEAN 1.048
STD DEV .4115
BISMUTH 214 EQ. PPM
MIN .6617
MAX 2.483
MEAN 1.306
STD DEV .3364
THALLIUM 208 EQ. PPM
MIN 3.024
MAX 7.063
MEAN 4.976
STD DEV .9630
BI AIR CORR EQ. PPM
MIN 1.986
MAX 2.220
MEAN 2.127
STD DEV .0596
RESID MAG GAMMAS
MIN -651.3
MAX 2522
MEAN -121.2
STD DEV 706.1
RADAR ALTMTR FEET
MIN 258.4
MAX 509.8
MEAN 383.0
STD DEV 53.92
LINE 180


50916
180
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50940
50950
50957
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190
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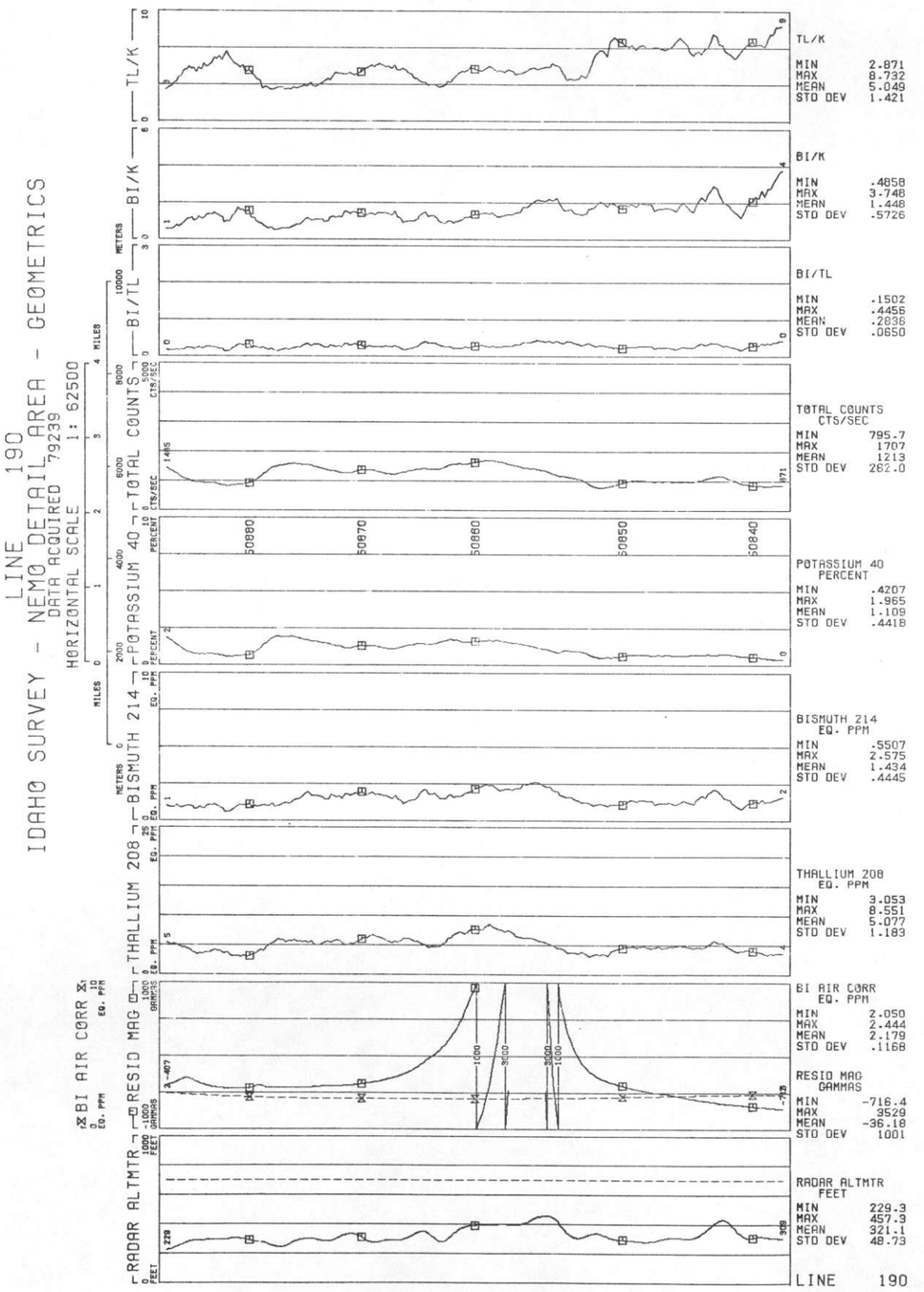
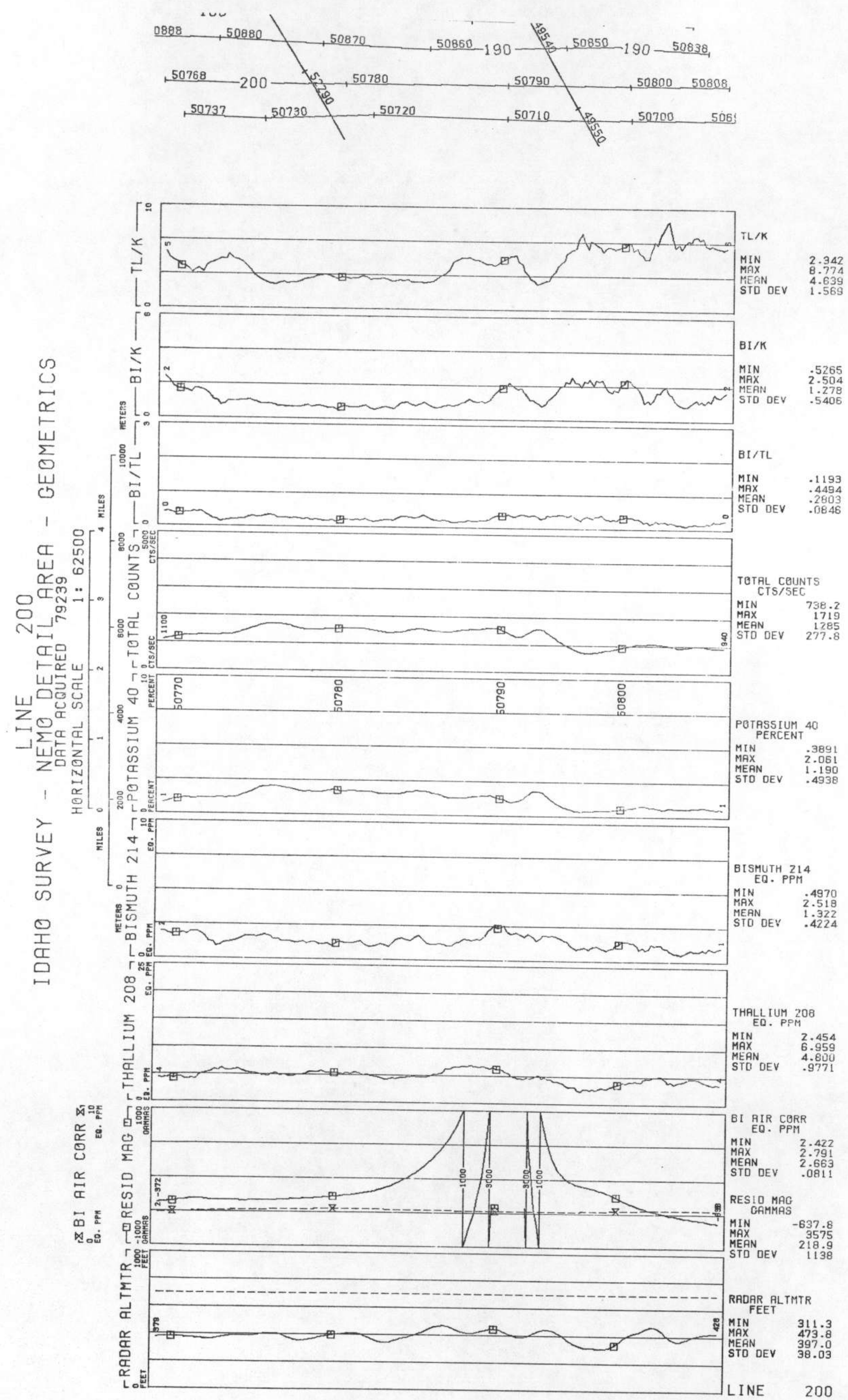
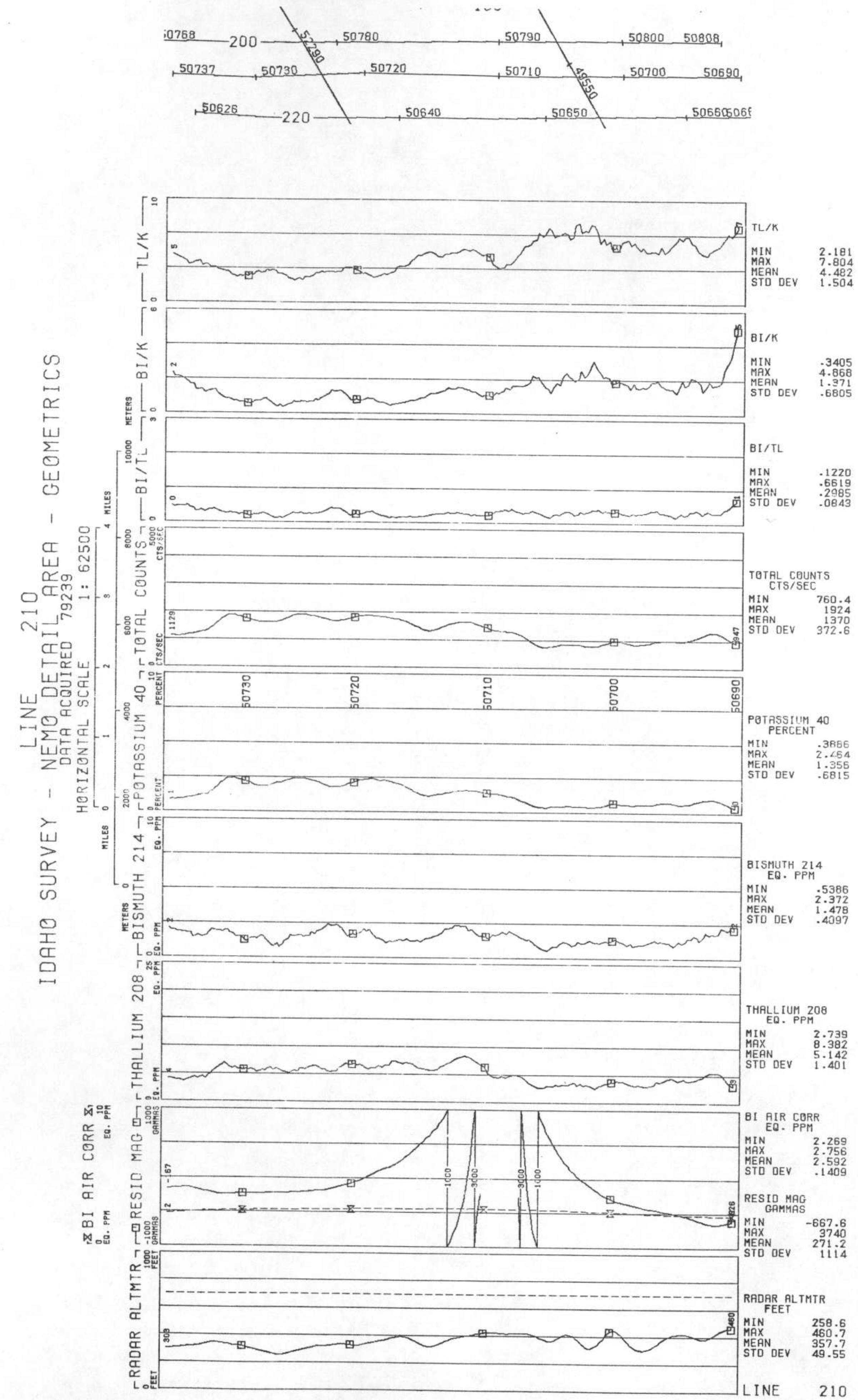
200
50780
50790
50800
495.40
527.80'


LINE
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
190
TL/K
MIN 2.871
MAX 8.732
MEAN 5.049
STD DEV 1.421
BI/K
MIN .4858
MAX 3.748
MEAN 1.448
STD DEV .5726
BI/TL
MIN .1502
MAX .4456
MEAN .2838
STD DEV .0650
TOTAL COUNTS CTS/SEC
MIN 795.7
MAX 1707
MEAN 1213
STD DEV 262.0
POTASSIUM 40 PERCENT
MIN .4207
MAX 1.965
MEAN 1.109
STD DEV .4418
BISMUTH 214 EQ. PPM
MIN .5507
MAX 2.575
MEAN 1.434
STD DEV .4445
THALLIUM 208 EQ. PPM
MIN 3.053
MAX 8.551
MEAN 5.077
STD DEV 1.183
BI AIR CORR EQ. PPM
MIN 2.050
MAX 2.444
MEAN 2.179
STD DEV .1168
RESID MAG GAMMAS
MIN -716.4
MAX 3529
MEAN -36.18
STD DEV 1001
RADAR ALTMTR FEET
MIN 229.3
MAX 457.3
MEAN 321.1
STD DEV 48.73
LINE 190

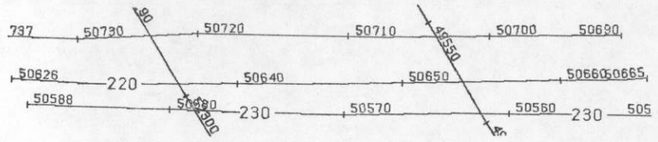
11 N



IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 200
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K MIN 2.342 MAX 8.774 MEAN 4.639 STD DEV 1.569
BI/K MIN .5265 MAX 2.504 MEAN 1.278 STD DEV .5406
BI/TL MIN .1193 MAX .4494 MEAN .2603 STD DEV .0846
TOTAL COUNTS CTS/SEC MIN 736.2 MAX 1719 MEAN 1265 STD DEV 277.8
POTASSIUM 40 PERCENT MIN .3891 MAX 2.061 MEAN 1.190 STD DEV .4938
BISMUTH 214 EQ. PPM MIN .4970 MAX 2.518 MEAN 1.322 STD DEV .4224
THALLIUM 208 EQ. PPM MIN 2.454 MAX 6.959 MEAN 4.800 STD DEV .9771
BI AIR CORR EQ. PPM MIN 2.422 MAX 2.791 MEAN 2.663 STD DEV .0811
RESID MAG GAMMAS MIN -637.8 MAX 3575 MEAN 218.9 STD DEV 1138
RADAR ALTMTR FEET MIN 311.3 MAX 473.8 MEAN 397.0 STD DEV 38.03
LINE 200



IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 210
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K MIN 2.181 MAX 7.804 MEAN 4.482 STD DEV 1.504
BI/K MIN .3405 MAX 4.868 MEAN 1.371 STD DEV .6805
BI/TL MIN .1220 MAX .6619 MEAN .2985 STD DEV .0843
TOTAL COUNTS CTS/SEC MIN 760.4 MAX 1924 MEAN 1370 STD DEV 372.6
POTASSIUM 40 PERCENT MIN .3866 MAX 2.464 MEAN 1.355 STD DEV .6815
BISMUTH 214 EQ. PPM MIN .5386 MAX 2.372 MEAN 1.478 STD DEV .4097
THALLIUM 208 EQ. PPM MIN 2.739 MAX 8.382 MEAN 5.142 STD DEV 1.401
BI AIR CORR EQ. PPM MIN 2.269 MAX 2.756 MEAN 2.592 STD DEV .1409
RESID MAG GAMMAS MIN -667.6 MAX 3740 MEAN 271.2 STD DEV 1114
RADAR ALTMTR FEET MIN 258.6 MAX 460.7 MEAN 357.7 STD DEV 49.55
LINE 210



LINE
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

TL/K
MIN 2.368
MAX 8.105
MEAN 4.584
STD DEV 1.601

BI/K
MIN .3763
MAX 3.906
MEAN 1.409
STD DEV .8400

BI/TL
MIN .1285
MAX .5228
MEAN .2945
STD DEV .0924

TOTAL COUNTS CTS/SEC
MIN 786.0
MAX 1888
MEAN 1335
STD DEV 345.0

POTASSIUM 40 PERCENT
MIN .3632
MAX 2.356
MEAN 1.289
STD DEV .6165

BISMUTH 214 EQ. PPM
MIN .6075
MAX 2.313
MEAN 1.408
STD DEV .3915

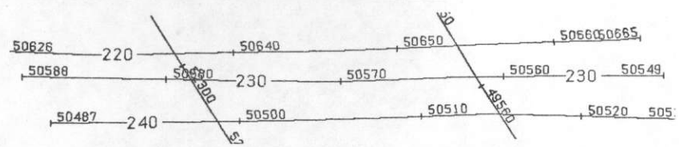
THALLIUM 208 EQ. PPM
MIN 2.633
MAX 8.122
MEAN 5.036
STD DEV 1.428

BI AIR CORR EQ. PPM
MIN 2.292
MAX 2.940
MEAN 2.688
STD DEV .2029

RESID MAG GAMMAS
MIN -481.6
MAX 2796
MEAN 682.4
STD DEV 800.6

RADAR ALTMTR FEET
MIN 288.2
MAX 508.1
MEAN 405.2
STD DEV 46.98

LINE 220



LINE
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

TL/K
MIN 2.253
MAX 7.936
MEAN 4.747
STD DEV 1.443

BI/K
MIN .4686
MAX 3.822
MEAN 1.436
STD DEV .6795

BI/TL
MIN .1633
MAX .5798
MEAN .2989
STD DEV .0795

TOTAL COUNTS CTS/SEC
MIN 779.8
MAX 1785
MEAN 1300
STD DEV 274.8

POTASSIUM 40 PERCENT
MIN .3901
MAX 2.388
MEAN 1.210
STD DEV .4755

BISMUTH 214 EQ. PPM
MIN .5295
MAX 2.727
MEAN 1.509
STD DEV .4628

THALLIUM 208 EQ. PPM
MIN 2.780
MAX 8.780
MEAN 5.191
STD DEV 1.602

BI AIR CORR EQ. PPM
MIN 2.239
MAX 2.846
MEAN 2.566
STD DEV .2236

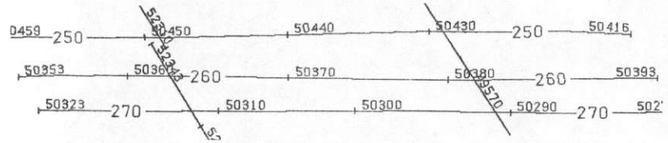
RESID MAG GAMMAS
MIN 215.6
MAX 3866
MEAN 1243
STD DEV 984.8

RADAR ALTMTR FEET
MIN 267.4
MAX 503.0
MEAN 354.5
STD DEV 51.48

LINE 230

588 50580 230 50570 50560 230 50549
50487 240 50500 50510 50520 50528
50459 250 50450 50440 50430 250 5041
LINE 240
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 2.437
MAX 6.864
MEAN 4.863
STD DEV 1.208
BI/K
MIN .5647
MAX 2.937
MEAN 1.498
STD DEV .5698
BI/TL
MIN .1330
MAX .6472
MEAN .3100
STD DEV .0963
TOTAL COUNTS CTS/SEC
MIN 753.1
MAX 1829
MEAN 1335
STD DEV 294.9
POTASSIUM 40 PERCENT
MIN .4394
MAX 1.929
MEAN 1.189
STD DEV .4044
BISMUTH 214 EQ. PPM
MIN .6371
MAX 2.493
MEAN 1.597
STD DEV .3960
THALLIUM 208 EQ. PPM
MIN 2.536
MAX 9.324
MEAN 5.568
STD DEV 1.961
BI AIR CORR EQ. PPM
MIN 2.270
MAX 2.691
MEAN 2.416
STD DEV .0933
RESID MAG GAMMAS
MIN 112.7
MAX 3580
MEAN 1187
STD DEV 892.0
RADAR ALTMTR FEET
MIN 308.0
MAX 477.3
MEAN 395.6
STD DEV 41.66
LINE 240

0487 240 50500 50510 50520 50528
50459 250 50450 50440 50430 250 50416
50353 50360 260 50370 50380 260 5039
LINE 250
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 2.260
MAX 15.92
MEAN 6.076
STD DEV 2.746
BI/K
MIN .5706
MAX 2.480
MEAN 1.261
STD DEV .4742
BI/TL
MIN .1204
MAX .3569
MEAN .2172
STD DEV .0548
TOTAL COUNTS CTS/SEC
MIN 727.9
MAX 2512
MEAN 1493
STD DEV 426.7
POTASSIUM 40 PERCENT
MIN .4039
MAX 2.585
MEAN 1.275
STD DEV .4962
BISMUTH 214 EQ. PPM
MIN .3668
MAX 3.165
MEAN 1.496
STD DEV .5791
THALLIUM 208 EQ. PPM
MIN 2.909
MAX 20.18
MEAN 7.357
STD DEV 3.830
BI AIR CORR EQ. PPM
MIN 2.613
MAX 2.901
MEAN 2.747
STD DEV .0960
RESID MAG GAMMAS
MIN -123.4
MAX 1859
MEAN 437.2
STD DEV 327.3
RADAR ALTMTR FEET
MIN 270.2
MAX 452.0
MEAN 385.2
STD DEV 41.31
LINE 250


0459
250
50450
50440
50430
250
50416
50353
50360
260
50370
50380
260
50393
50323
270
50310
50300
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50278
50207
50220
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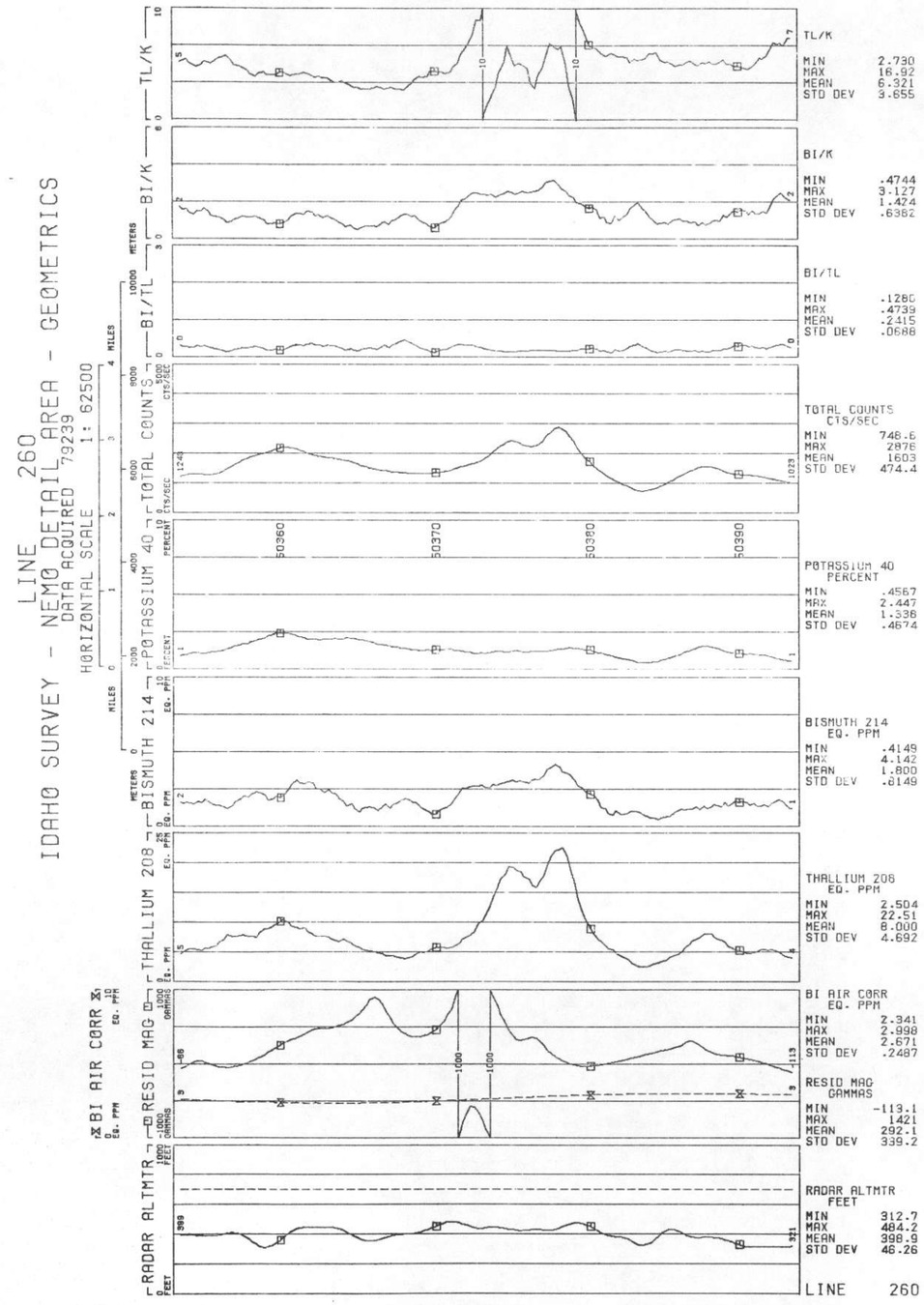
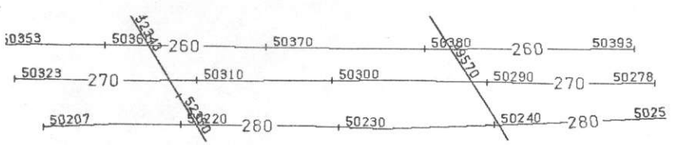
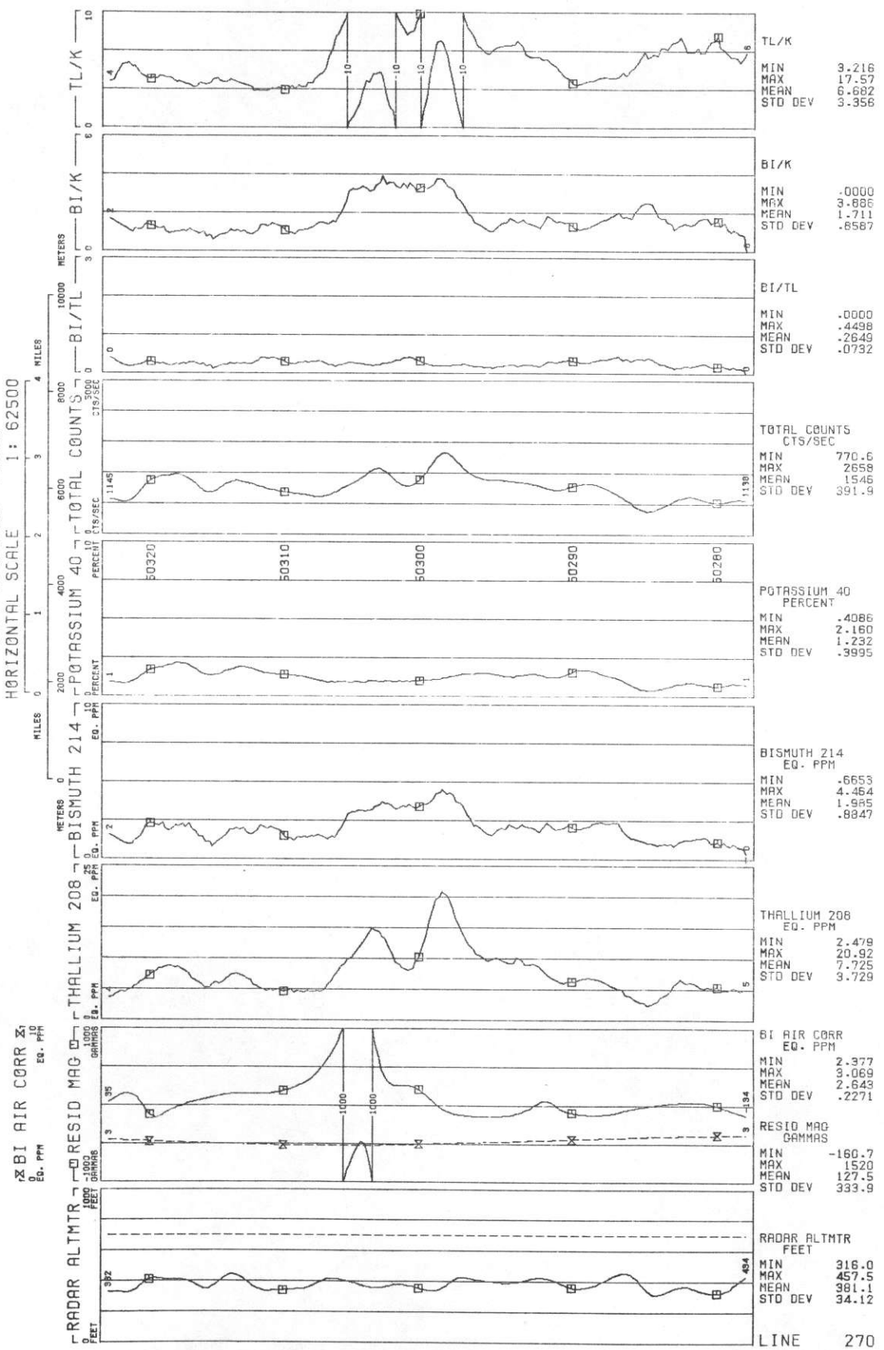
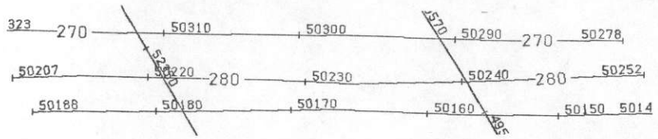
50230
50240
280
5025

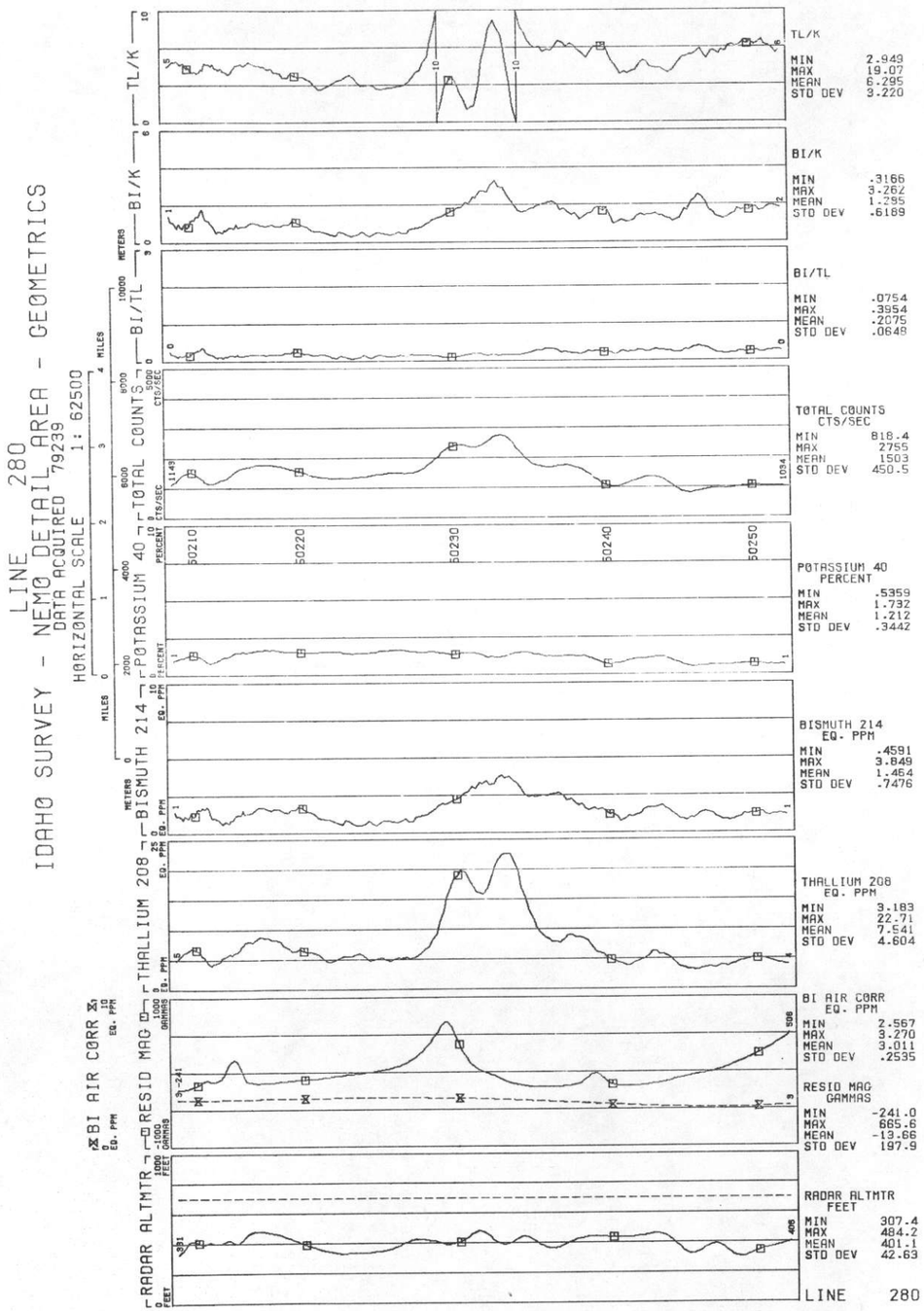

LINE 260
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 2.730
MAX 16.92
MEAN 6.321
STD DEV 3.655
BI/K
MIN .4744
MAX 3.127
MEAN 1.474
STD DEV .6382
BI/TL
MIN .1280
MAX .4739
MEAN .2415
STD DEV .0688
TOTAL COUNTS CTS/SEC
MIN 748.6
MAX 2876
MEAN 1603
STD DEV 474.4
POTASSIUM 40 PERCENT
MIN .4567
MAX 2.447
MEAN 1.338
STD DEV .4674
BISMUTH 214 EQ. PPM
MIN .4149
MAX 4.142
MEAN 1.800
STD DEV .8149
THALLIUM 208 EQ. PPM
MIN 2.504
MAX 22.51
MEAN 8.000
STD DEV 4.692
BI AIR CORR EQ. PPM
MIN 2.341
MAX 2.998
MEAN 2.671
STD DEV .2487
RESID MAG GAMMAS
MIN -113.1
MAX 1421
MEAN 292.1
STD DEV 339.2
RADAR ALTMTR FEET
MIN 312.7
MAX 484.2
MEAN 398.9
STD DEV 46.26
LINE 260

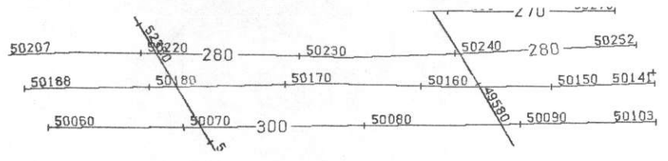

50353
50360
260
50370
50380
260
50393
50323
270
50310
50300
50290
270
50278
50207
50220
260
50230
50240
280
5025


LINE 270
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 3.216
MAX 17.57
MEAN 6.682
STD DEV 3.356
BI/K
MIN .0000
MAX 3.886
MEAN 1.711
STD DEV .8587
BI/TL
MIN .0000
MAX .4498
MEAN .2649
STD DEV .0792
TOTAL COUNTS CTS/SEC
MIN 770.6
MAX 2658
MEAN 1546
STD DEV 391.9
POTASSIUM 40 PERCENT
MIN .4086
MAX 2.160
MEAN 1.232
STD DEV .3995
BISMUTH 214 EQ. PPM
MIN .6653
MAX 4.464
MEAN 1.985
STD DEV .8847
THALLIUM 208 EQ. PPM
MIN 2.478
MAX 20.92
MEAN 7.725
STD DEV 3.729
BI AIR CORR EQ. PPM
MIN 2.377
MAX 3.069
MEAN 2.643
STD DEV .2271
RESID MAG GAMMAS
MIN -160.7
MAX 1520
MEAN 127.5
STD DEV 333.9
RADAR ALTMTR FEET
MIN 316.0
MAX 457.5
MEAN 381.1
STD DEV 34.12
LINE 270

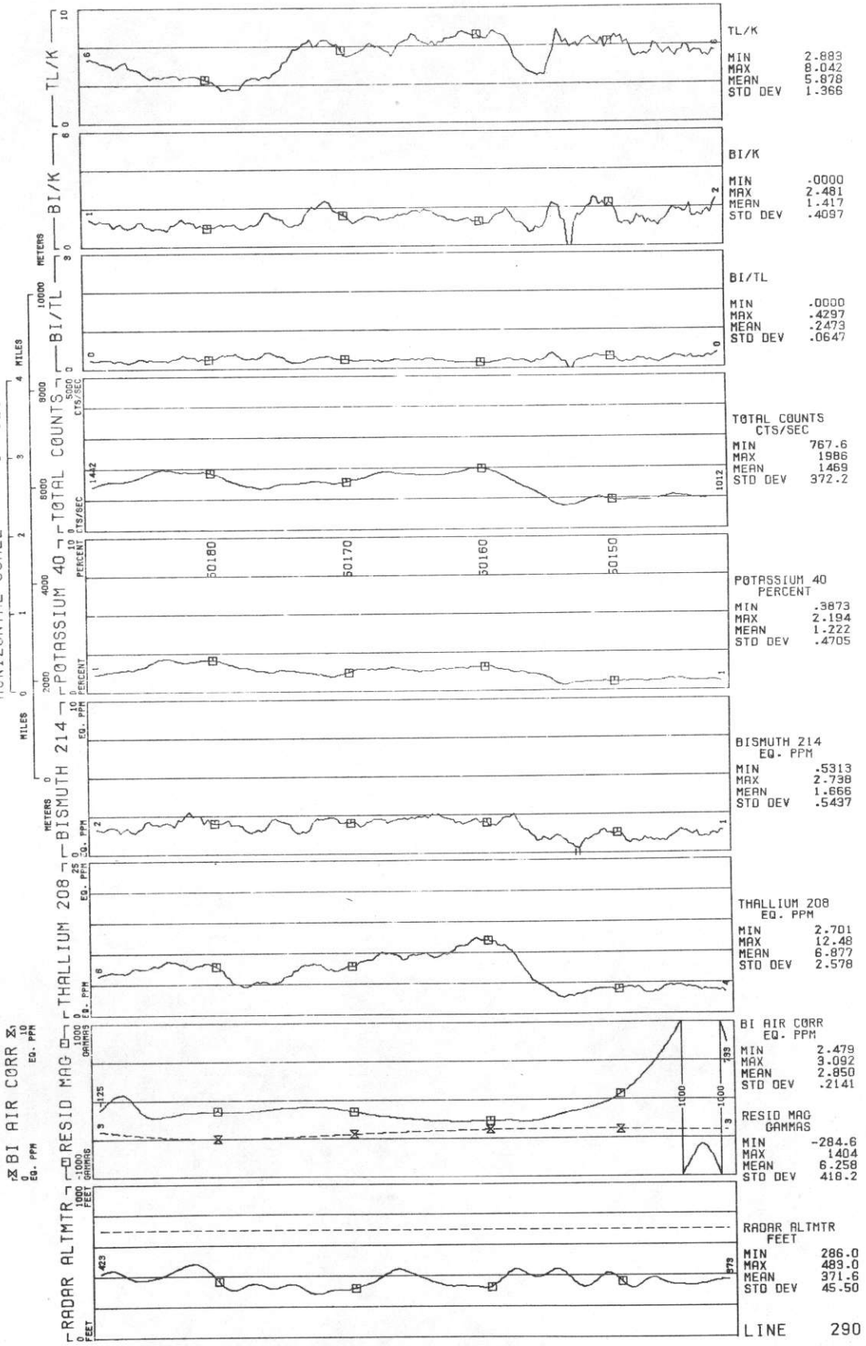


LINE 280
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500





LINE 290
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500



LINE 300
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

TL/K
MIN 3.307
MAX 8.272
MEAN 5.514
STD DEV 1.409

BI/K
MIN .0000
MAX 3.998
MEAN 1.096
STD DEV .5828

BI/TL
MIN .0000
MAX .5714
MEAN .2004
STD DEV .0865

TOTAL COUNTS CTS/SEC
MIN 786.2
MAX 2002
MEAN 1451
STD DEV 349.0

POTASSIUM 40 PERCENT
MIN .3501
MAX 2.326
MEAN 1.243
STD DEV .4693

BISMUTH 214 EQ. PPM
MIN .4177
MAX 2.438
MEAN 1.232
STD DEV .3990

THALLIUM 208 EQ. PPM
MIN 2.449
MAX 11.05
MEAN 6.551
STD DEV 2.391

BI AIR CORR EQ. PPM
MIN 2.945
MAX 3.781
MEAN 3.375
STD DEV .2844

RESID MAG GAMMAS
MIN -343.6
MAX 1142
MEAN -32.64
STD DEV 418.0

RADAR ALTMTR FEET
MIN 288.5
MAX 498.1
MEAN 376.5
STD DEV 49.88

LINE 300

LINE 310
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

TL/K
MIN 3.647
MAX 7.682
MEAN 5.391
STD DEV .9945

BI/K
MIN .3911
MAX 3.024
MEAN 1.382
STD DEV .5754

BI/TL
MIN .0695
MAX .4725
MEAN .2523
STD DEV .0858

TOTAL COUNTS CTS/SEC
MIN 809.3
MAX 2023
MEAN 1339
STD DEV 260.3

POTASSIUM 40 PERCENT
MIN .4123
MAX 1.604
MEAN 1.095
STD DEV .3368

BISMUTH 214 EQ. PPM
MIN .3855
MAX 3.336
MEAN 1.400
STD DEV .5424

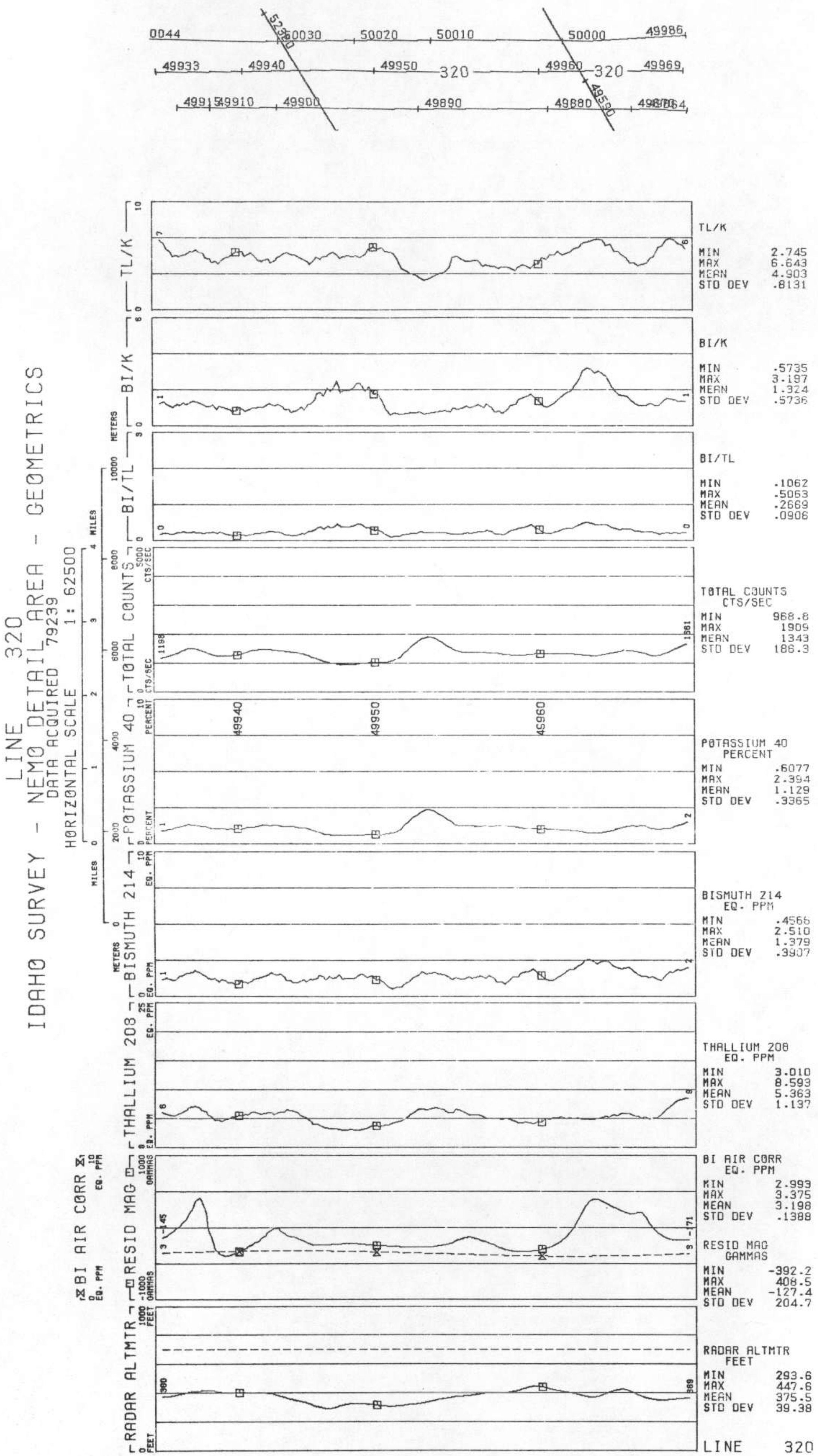
THALLIUM 208 EQ. PPM
MIN 2.683
MAX 11.97
MEAN 5.752
STD DEV 1.846

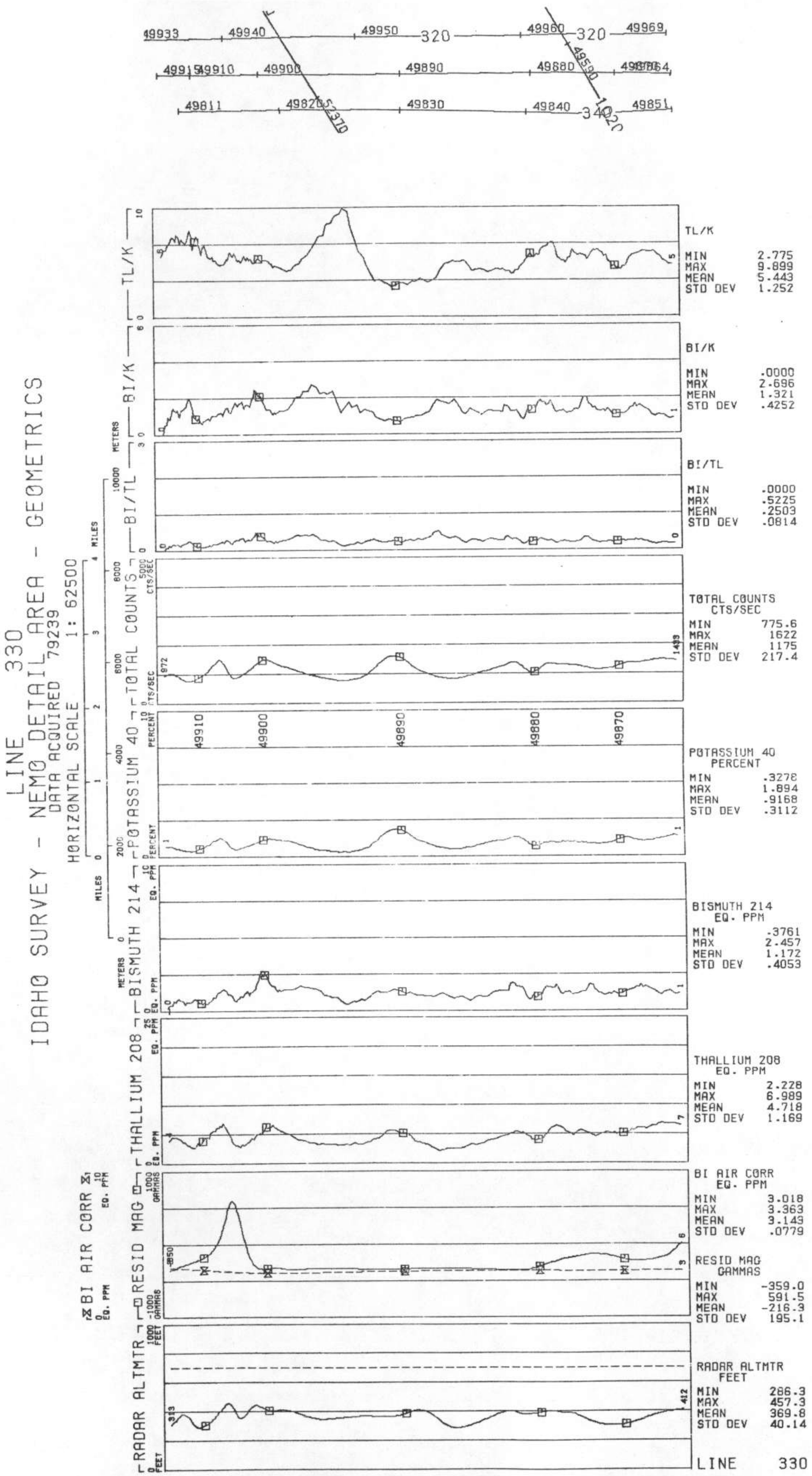
BI AIR CORR EQ. PPM
MIN 2.469
MAX 3.309
MEAN 3.084
STD DEV .2001

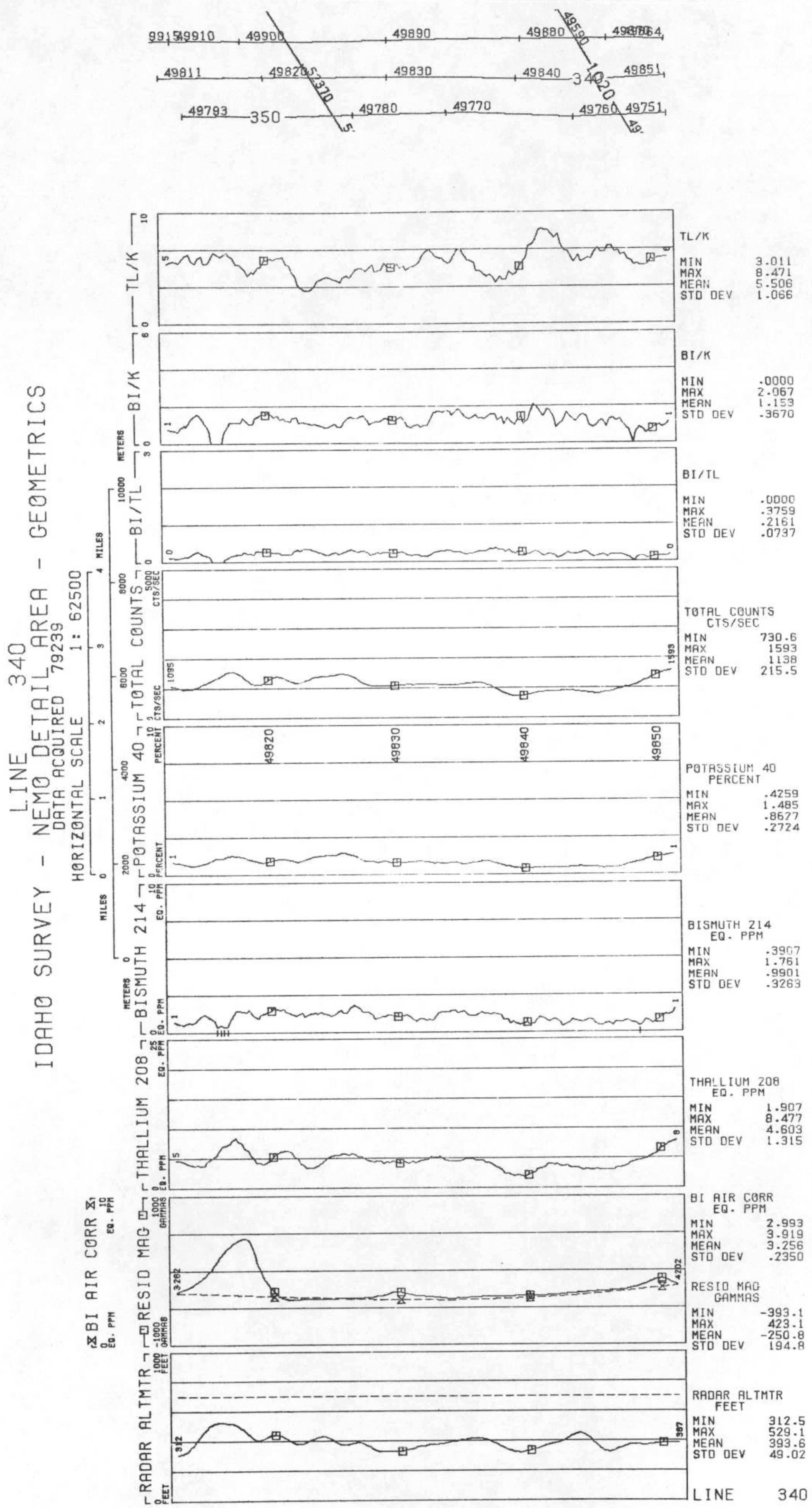
RESID MAG GAMMAS
MIN -384.5
MAX 739.9
MEAN -110.9
STD DEV 269.8

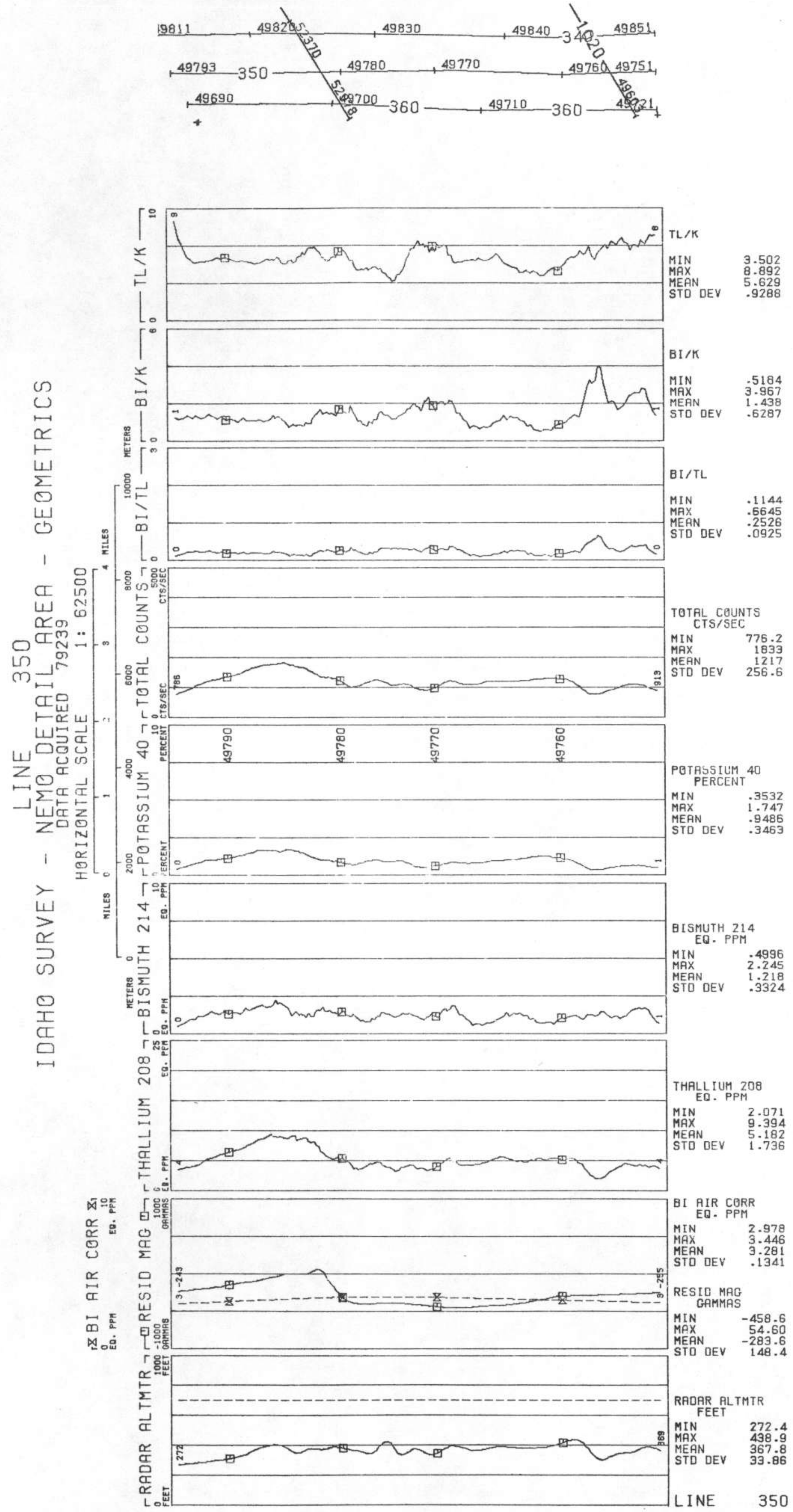
RADAR ALTMTR FEET
MIN 267.2
MAX 436.7
MEAN 365.7
STD DEV 39.10

LINE 310


IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 320
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 2.745
MAX 6.643
MEAN 4.903
STD DEV .8131
BI/K
MIN .5735
MAX 3.197
MEAN 1.324
STD DEV .5736
BI/TL
MIN .1062
MAX .5053
MEAN .2669
STD DEV .0906
TOTAL COUNTS CTS/SEC
MIN 968.6
MAX 1909
MEAN 1343
STD DEV 186.3
POTASSIUM 40 PERCENT
MIN .6077
MAX 2.394
MEAN 1.129
STD DEV .3365
BISMUTH 214 EQ. PPM
MIN .4565
MAX 2.510
MEAN 1.379
STD DEV .3907
THALLIUM 208 EQ. PPM
MIN 3.010
MAX 8.593
MEAN 5.363
STD DEV 1.137
BI AIR CORR EQ. PPM
MIN 2.993
MAX 3.375
MEAN 3.198
STD DEV .1388
RESID MAG GAMMAS
MIN -392.2
MAX 408.5
MEAN -127.4
STD DEV 204.7
RADAR ALTMTR FEET
MIN 293.6
MAX 447.6
MEAN 375.5
STD DEV 39.38
LINE 320


IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 330
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 2.775
MAX 9.899
MEAN 5.443
STD DEV 1.252
BI/K
MIN .0000
MAX 2.696
MEAN 1.321
STD DEV .4252
BI/TL
MIN .0000
MAX .5225
MEAN .2503
STD DEV .0814
TOTAL COUNTS CTS/SEC
MIN 775.6
MAX 1622
MEAN 1175
STD DEV 217.4
POTASSIUM 40 PERCENT
MIN .3278
MAX 1.894
MEAN .9168
STD DEV .3112
BISMUTH 214 EQ. PPM
MIN .3761
MAX 2.457
MEAN 1.172
STD DEV .4053
THALLIUM 208 EQ. PPM
MIN 2.228
MAX 6.989
MEAN 4.718
STD DEV 1.169
BI AIR CORR EQ. PPM
MIN 3.018
MAX 3.363
MEAN 3.149
STD DEV .0779
RESID MAG GAMMAS
MIN -359.0
MAX 591.5
MEAN -216.3
STD DEV 195.1
RADAR ALTMTR FEET
MIN 286.3
MAX 457.3
MEAN 369.8
STD DEV 40.14
LINE 330


LINE 340
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 3.011
MAX 8.471
MEAN 5.506
STD DEV 1.066
BI/K
MIN .0000
MAX 2.067
MEAN 1.153
STD DEV .3670
BI/TL
MIN .0000
MAX .3759
MEAN .2161
STD DEV .0737
TOTAL COUNTS CTS/SEC
MIN 730.6
MAX 1593
MEAN 1138
STD DEV 215.5
POTASSIUM 40 PERCENT
MIN .4259
MAX 1.485
MEAN .8627
STD DEV .2724
BISMUTH 214 EQ. PPM
MIN .3907
MAX 1.761
MEAN .9901
STD DEV .3263
THALLIUM 208 EQ. PPM
MIN 1.907
MAX 8.477
MEAN 4.603
STD DEV 1.315
BI AIR CORR EQ. PPM
MIN 2.993
MAX 3.919
MEAN 3.256
STD DEV .2350
RESID MAG GAMMAS
MIN -393.1
MAX 423.1
MEAN -250.8
STD DEV 194.8
RADAR ALTMTR FEET
MIN 312.5
MAX 529.1
MEAN 393.6
STD DEV 49.02
LINE 340


LINE 350
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 3.502
MAX 8.892
MEAN 5.629
STD DEV .9288
BI/K
MIN .5164
MAX 3.967
MEAN 1.438
STD DEV .6287
BI/TL
MIN .1144
MAX .6645
MEAN .2526
STD DEV .0925
TOTAL COUNTS CTS/SEC
MIN 776.2
MAX 1833
MEAN 1217
STD DEV 256.6
POTASSIUM 40 PERCENT
MIN .3532
MAX 1.747
MEAN .9486
STD DEV .3463
BISMUTH 214 EQ. PPM
MIN .4996
MAX 2.245
MEAN 1.218
STD DEV .3324
THALLIUM 208 EQ. PPM
MIN 2.071
MAX 9.394
MEAN 5.182
STD DEV 1.736
BI AIR CORR EQ. PPM
MIN 2.978
MAX 3.446
MEAN 3.281
STD DEV .1341
RESID MAG GAMMAS
MIN -458.6
MAX 54.60
MEAN -283.6
STD DEV 148.4
RADAR ALTMTR FEET
MIN 272.4
MAX 438.9
MEAN 367.8
STD DEV 33.86
LINE 350

49793
350
49780
49770
49760
49751
49690
49700
360
49710
360
49721
LINE 360
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
TL/K
MIN 4.589
MAX 8.818
MEAN 5.736
STD DEV .8571
BI/K
MIN .5230
MAX 3.709
MEAN 1.629
STD DEV .7062
BI/TL
MIN .0767
MAX .4675
MEAN .2799
STD DEV .0920
TOTAL COUNTS CTS/SEC
MIN 814.1
MAX 1528
MEAN 1236
STD DEV 156.5
POTASSIUM 40 PERCENT
MIN .4046
MAX 1.407
MEAN .9384
STD DEV .2344
BISMUTH 214 EQ. PPM
MIN .4978
MAX 2.155
MEAN 1.400
STD DEV .3465
THALLIUM 208 EQ. PPM
MIN 2.914
MAX 7.424
MEAN 5.245
STD DEV 1.026
BI AIR CORR EQ. PPM
MIN 3.042
MAX 3.718
MEAN 3.230
STD DEV .2082
RESID MAG GAMMAS
MIN -519.8
MAX -110.0
MEAN -332.1
STD DEV 127.3
RADAR ALTMTR FEET
MIN 309.6
MAX 416.1
MEAN 366.3
STD DEV 26.18
LINE 360

LINE 1010
NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

IDAHO SURVEY -

20 N

TL/K
MIN 2.035
MAX 16.24
MEAN 4.850
STD DEV 2.864

BI/K
MIN .8707
MAX 5.898
MEAN 2.113
STD DEV 1.046

BI/TL
MIN .2161
MAX .9639
MEAN .4645
STD DEV .1539

TOTAL COUNTS CTS/SEC
MIN 844.9
MAX 2128
MEAN 1503
STD DEV 290.2

POTASSIUM 40 PERCENT
MIN .4126
MAX 2.656
MEAN 1.396
STD DEV .5435

BISMUTH 214 EQ. PPM
MIN 1.305
MAX 3.969
MEAN 2.491
STD DEV .5097

THALLIUM 208 EQ. PPM
MIN 2.645
MAX 12.82
MEAN 5.851
STD DEV 2.105

BI AIR CORR EQ. PPM
MIN .7488
MAX 2.753
MEAN 2.137
STD DEV .4187

RESID MAG GAMMAS
MIN -680.6
MAX 4037
MEAN 543.1
STD DEV 1433

RADAR ALTMTR FEET
MIN 254.0
MAX 504.1
MEAN 384.4
STD DEV 45.80

LINE 1010

LINE 1020
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

21 N

TL/K
MIN 2.483
MAX 9.737
MEAN 5.661
STD DEV 1.464

BI/K
MIN .0000
MAX 4.610
MEAN 1.554
STD DEV .7045

BI/TL
MIN .0000
MAX .7102
MEAN .2745
STD DEV .1021

TOTAL COUNTS CTS/SEC
MIN 688.5
MAX 2053
MEAN 1220
STD DEV 327.4

POTASSIUM 40 PERCENT
MIN .3018
MAX 2.499
MEAN .9144
STD DEV .4157

BISMUTH 214 EQ. PPM
MIN .4023
MAX 2.589
MEAN 1.251
STD DEV .4713

THALLIUM 208 EQ. PPM
MIN 1.808
MAX 11.35
MEAN 4.840
STD DEV 1.917

BI AIR CORR EQ. PPM
MIN 3.402
MAX 4.006
MEAN 3.649
STD DEV .1762

RESID MAG GAMMAS
MIN -667.1
MAX 2972
MEAN 183.6
STD DEV 833.1

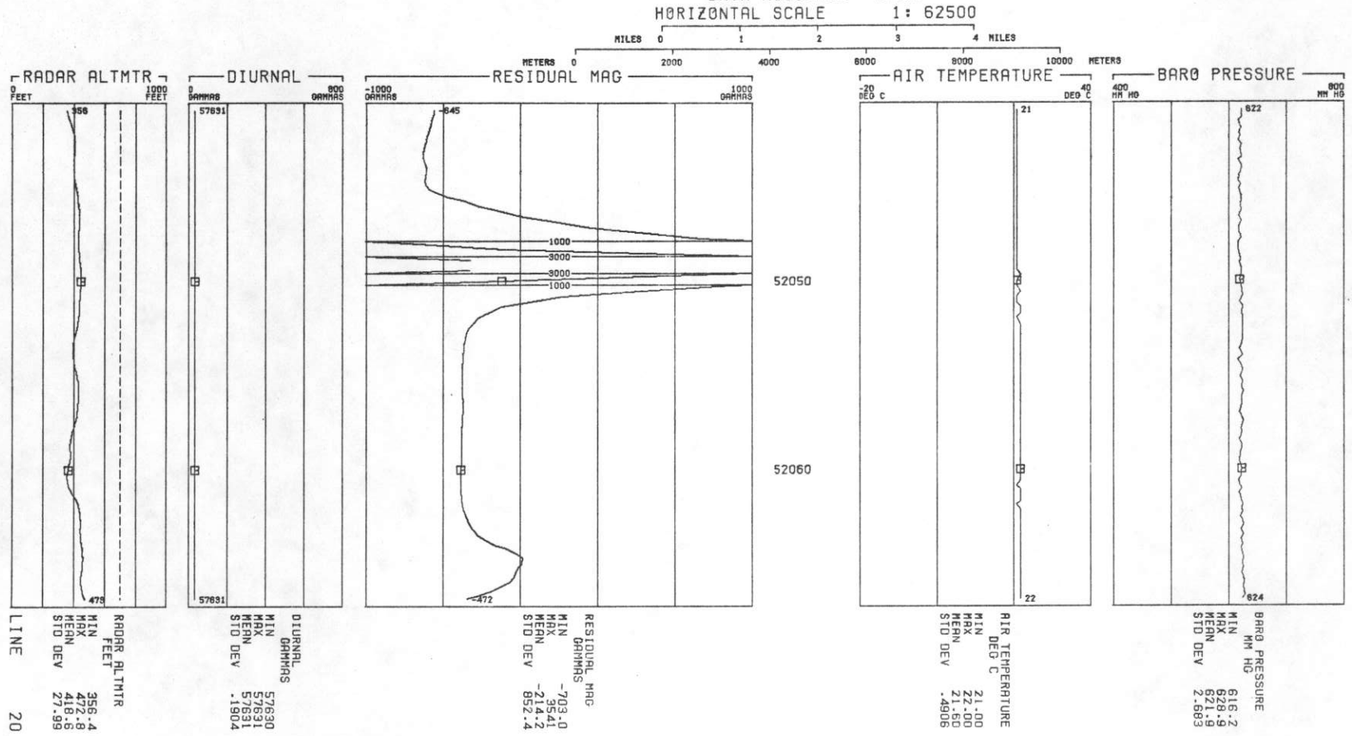
RADAR ALTMTR FEET
MIN 248.0
MAX 453.1
MEAN 358.8
STD DEV 43.82

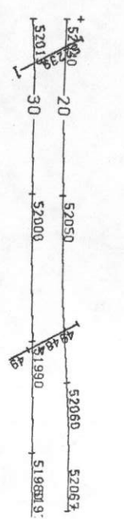
LINE 1020

LINE 20
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS

DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500





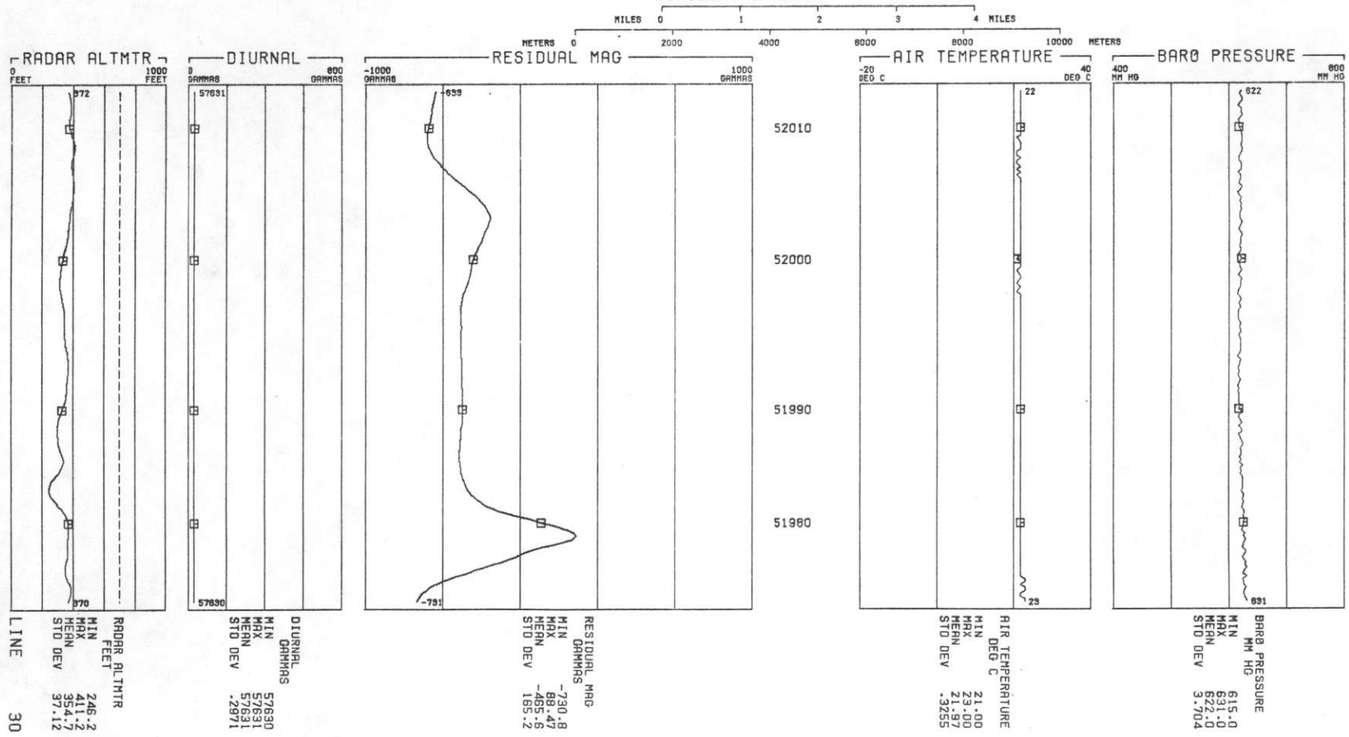
LINE 20

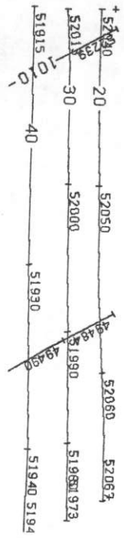
	RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BARO PRESSURE MM HG
MIN	356.4	57630	-703.0	21.00	616.2
MAX	472.8	57631	2354.1	22.00	628.9
MEAN	418.6	57631	-852.4	21.60	621.9
STD DEV	27.99	.1904		.4906	2.683

LINE 30
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS

DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500



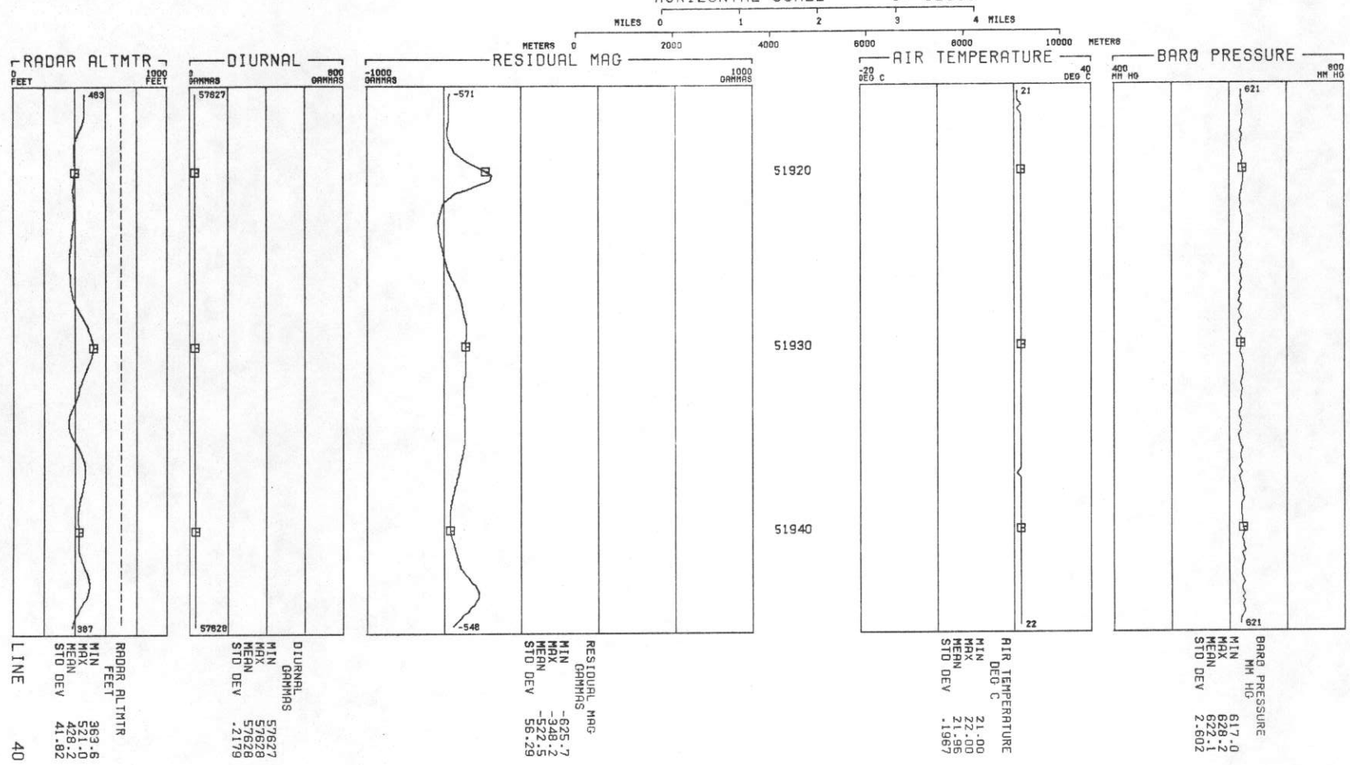


LINE 30

	RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BARO PRESSURE MM HG
MIN	246.2	57630	-730.8	21.00	615.0
MAX	411.2	57631	88.47	23.00	631.0
MEAN	354.7	57631	-405.8	21.87	622.0
STD DEV	37.12	.2971	165.2	.3255	3.704

LINE 40
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500



LINE 40

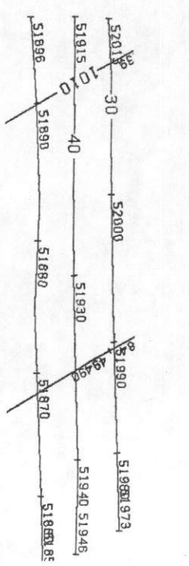
RADAR ALTMTR FEET: MIN 363.6, MAX 521.0, MEAN 428.2, STD DEV 41.82

DIURNAL GAMMAS: MIN 57627, MAX 57628, MEAN 57628, STD DEV .2179

RESIDUAL MAG GAMMAS: MIN -625.7, MAX -348.2, MEAN -522.5, STD DEV 56.29

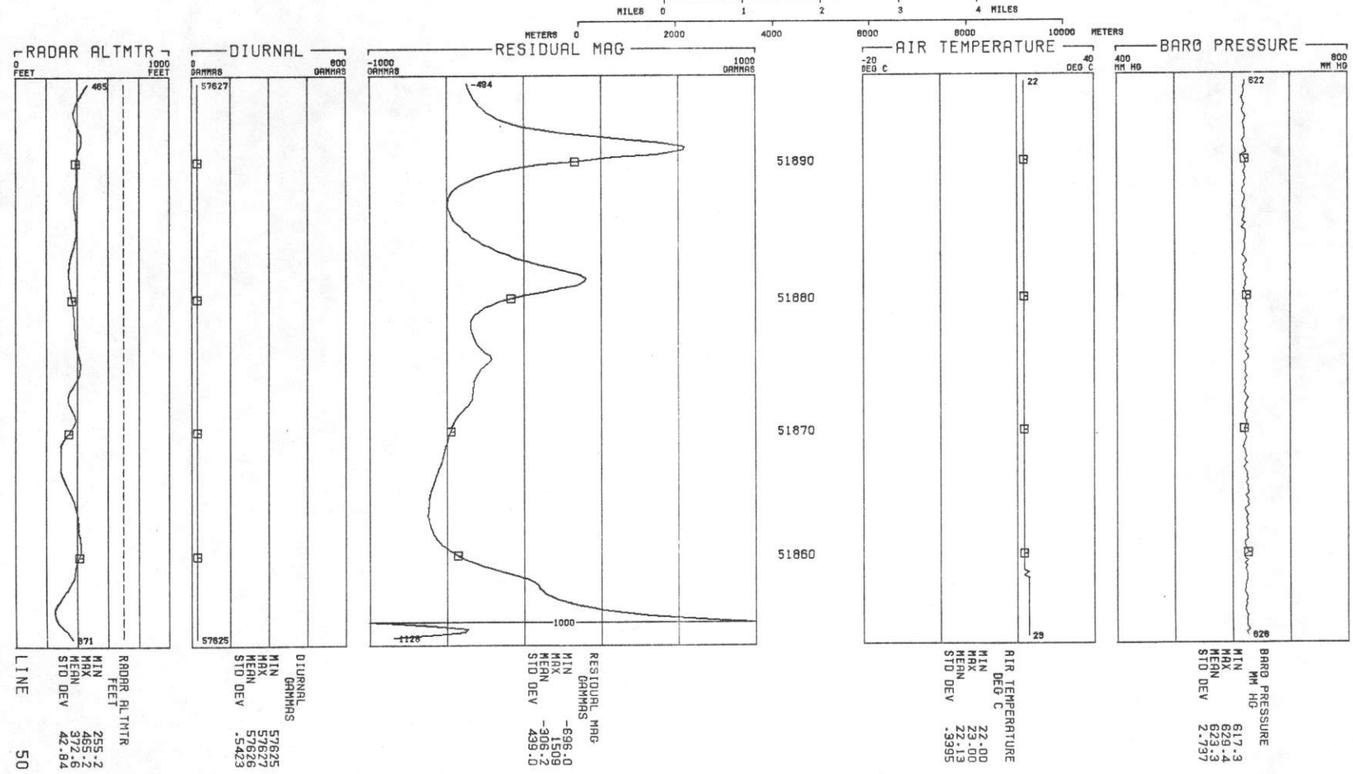
AIR TEMPERATURE DEG C: MIN 21.00, MAX 22.00, MEAN 21.96, STD DEV .1967

BARO PRESSURE MM HG: MIN 617.0, MAX 622.1, MEAN 621.1, STD DEV 2.602



LINE 50
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500



LINE 50

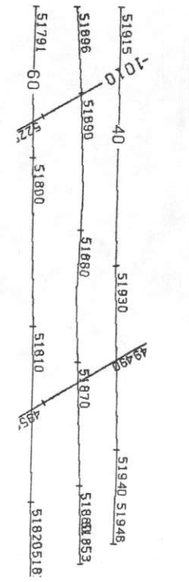
RADAR ALTMTR FEET: MIN 255.2, MAX 495.2, MEAN 427.6, STD DEV 42.84

DIURNAL GAMMAS: MIN 57625, MAX 57627, MEAN 57626, STD DEV .5423

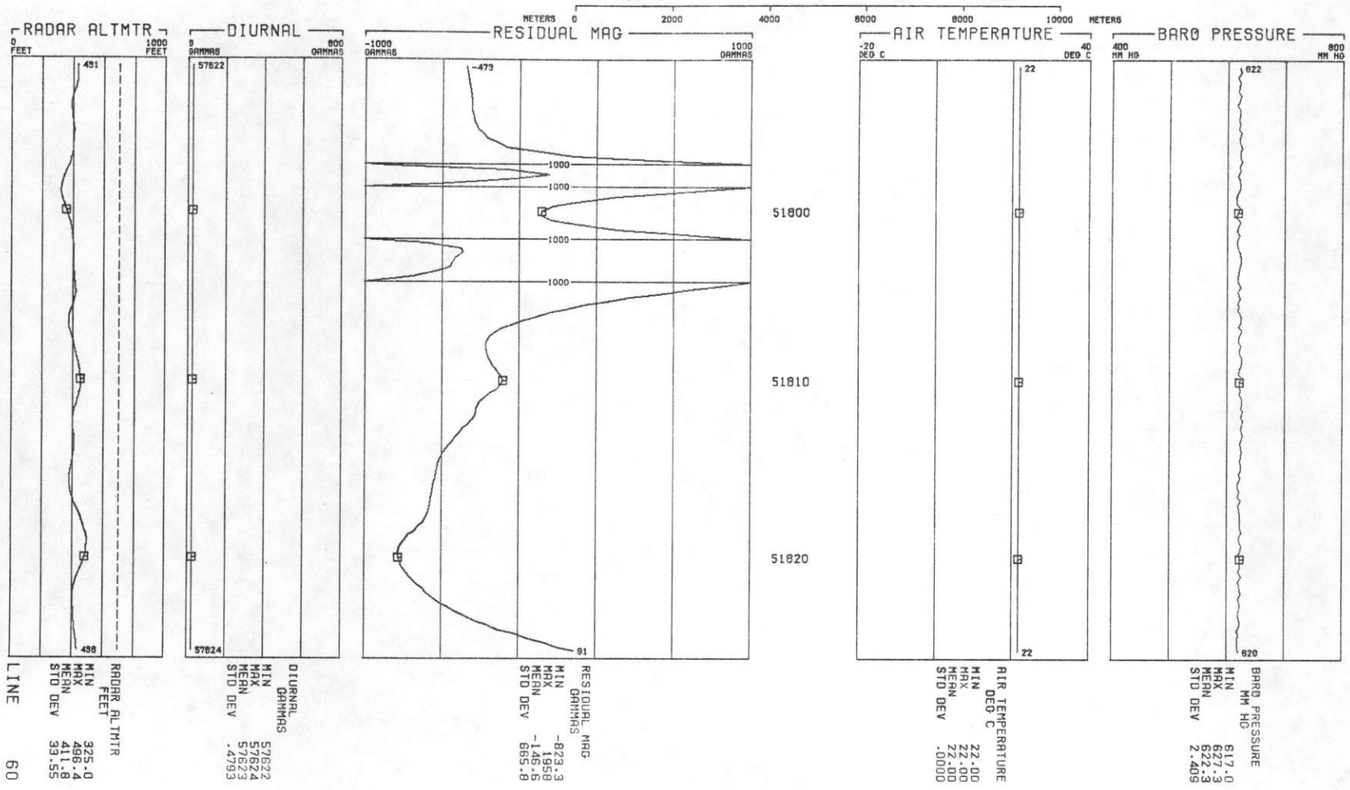
RESIDUAL MAG GAMMAS: MIN -696.0, MAX -350.9, MEAN -439.0, STD DEV 59.53

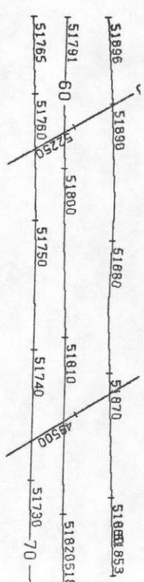
AIR TEMPERATURE DEG C: MIN 22.00, MAX 23.00, MEAN 22.13, STD DEV .3395

BARO PRESSURE MM HG: MIN 617.3, MAX 623.4, MEAN 623.3, STD DEV 2.737



LINE 60
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500





LINE 60

RADAR ALTMTR FEET
MIN 325.0
MAX 491.0
MEAN 411.8
STD DEV 33.55

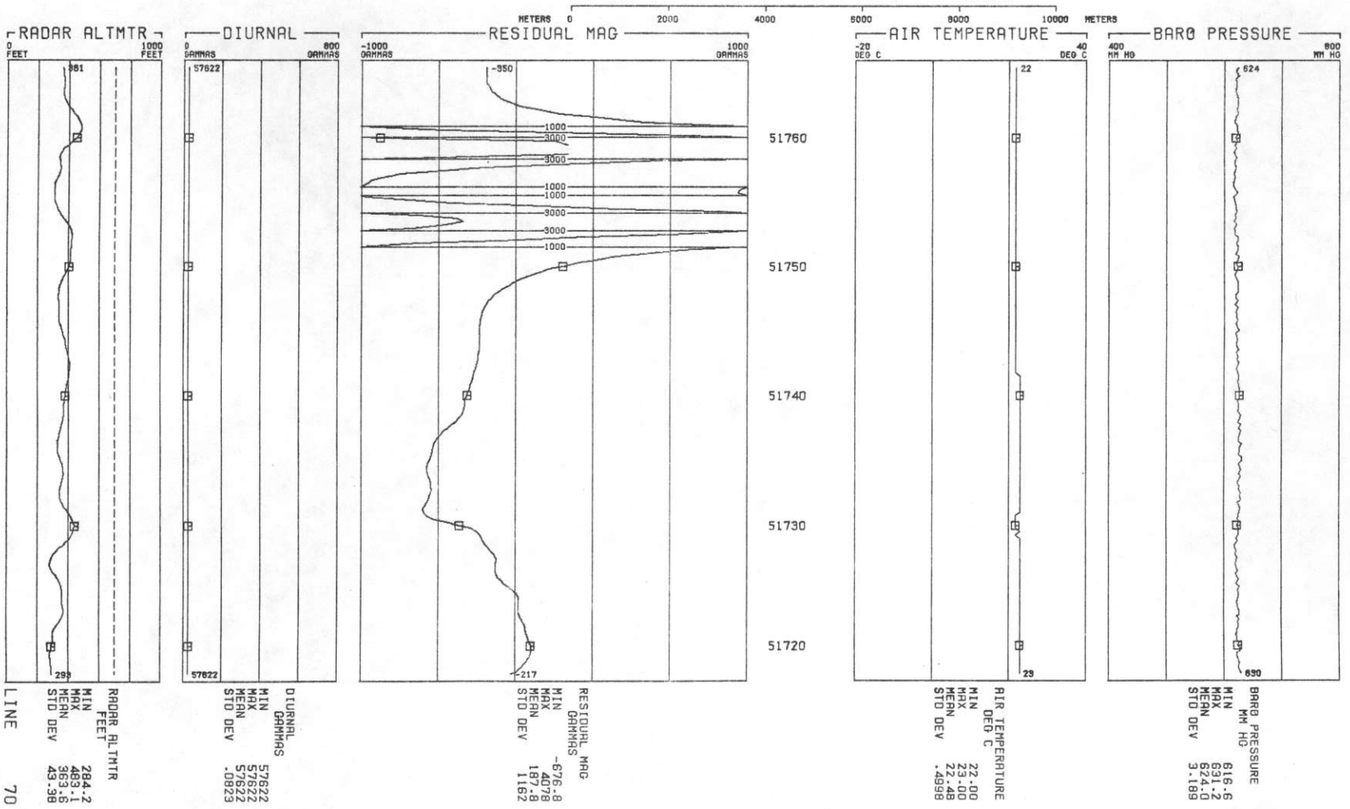
DIURNAL GAMMAS
MIN 57622
MAX 57824
MEAN 57723
STD DEV .4793

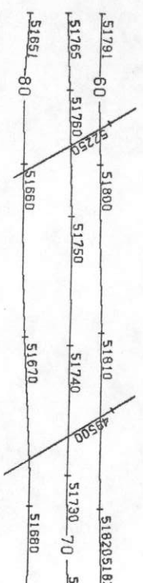
RESIDUAL MAG GAMMAS
MIN -823.3
MAX 1959
MEAN -146.6
STD DEV 665.8

AIR TEMPERATURE DEG C
MIN 22.00
MAX 22.00
MEAN 22.00
STD DEV .0000

BARO PRESSURE MM HG
MIN 617.0
MAX 627.3
MEAN 622.3
STD DEV 2.405

LINE 70
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500





LINE 70

RADAR ALTMTR FEET
MIN 284.2
MAX 381.1
MEAN 363.6
STD DEV 43.38

DIURNAL GAMMAS
MIN 57622
MAX 57822
MEAN 57722
STD DEV .7823

RESIDUAL MAG GAMMAS
MIN -676.8
MAX 1078
MEAN 187.8
STD DEV 1162

AIR TEMPERATURE DEG C
MIN 22.00
MAX 23.00
MEAN 22.88
STD DEV .4598

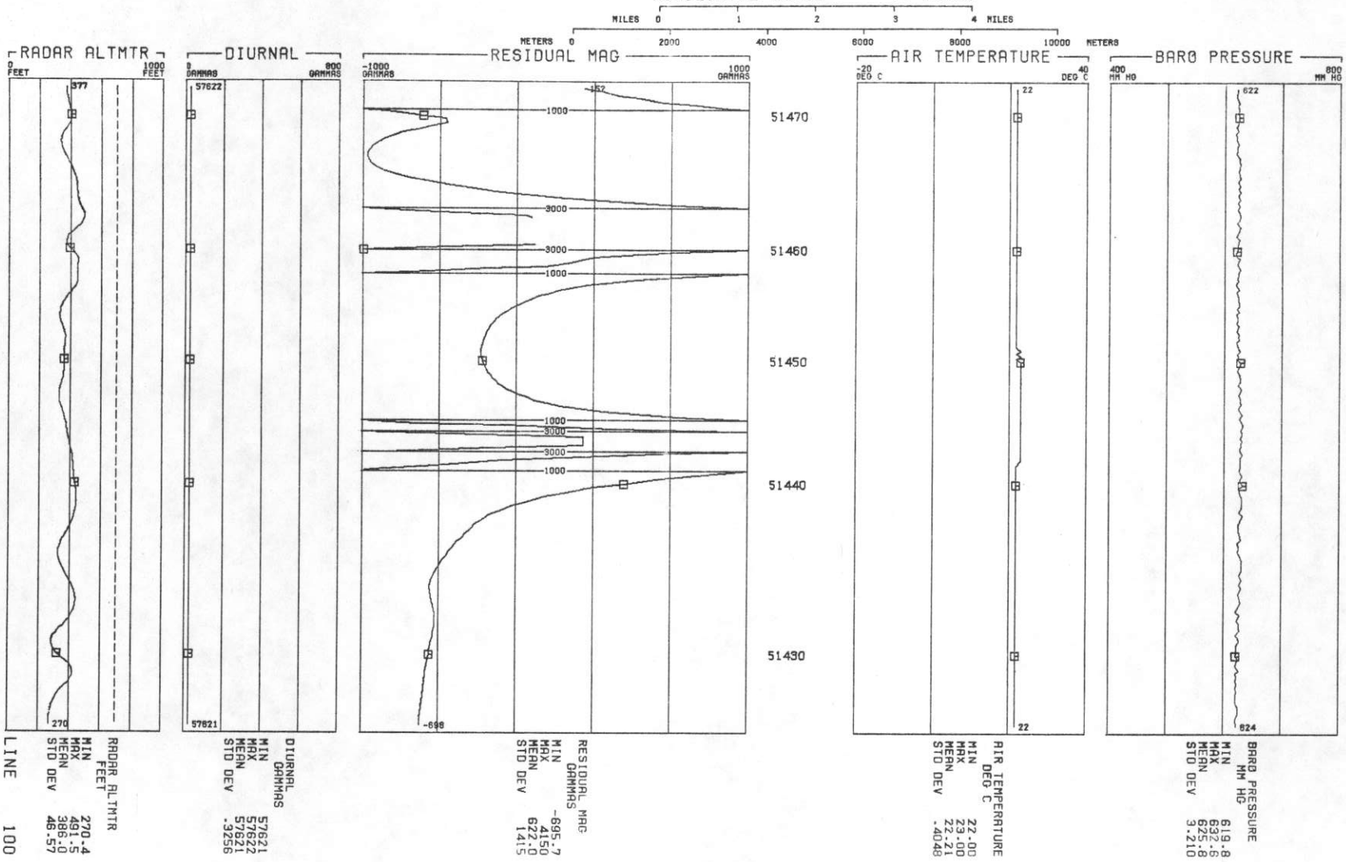
BARO PRESSURE MM HG
MIN 616.6
MAX 631.2
MEAN 624.0
STD DEV 3.189

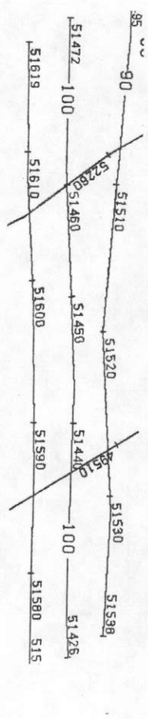
LINE 80
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

LINE 90
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

LINE 100
IDAH0 SURVEY - NEM0 DETAIL AREA - GE0METRICS
DATA ACQUIRED 79239

H0RIZ0NTAL SCALE 1: 62500





RADAR ALTMTR FEET: MIN 270.4, MAX 491.5, MEAN 386.0, STD DEV 46.57

DIURNAL GAMMAS: MIN 57621, MAX 57622, MEAN 57621, STD DEV .3256

RESIDUAL MAG GAMMAS: MIN -695.7, MAX 4150, MEAN 622.0, STD DEV 1415

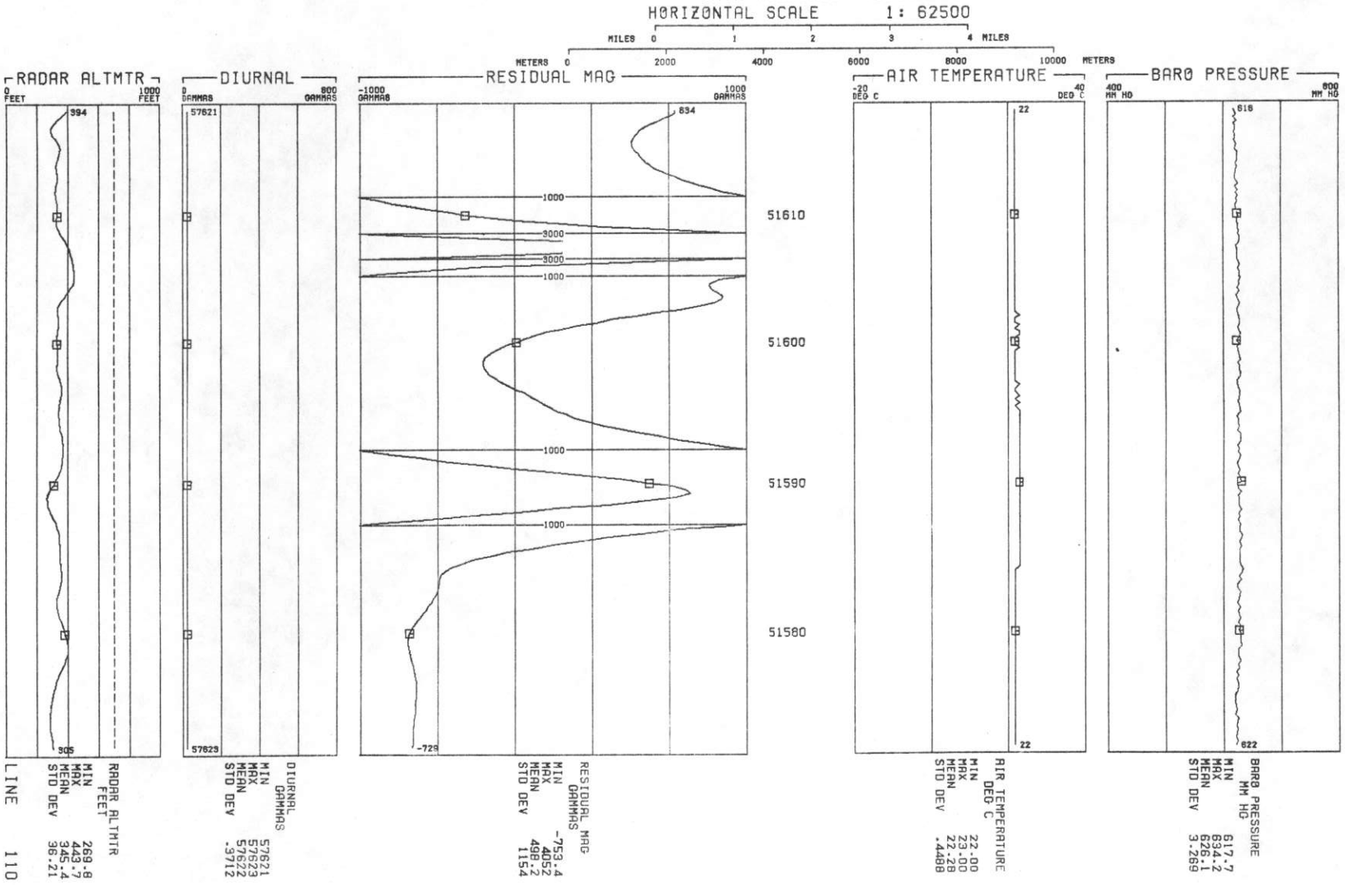
AIR TEMPERATURE DEG C: MIN 22.00, MAX 22.20, MEAN 22.21, STD DEV .4040

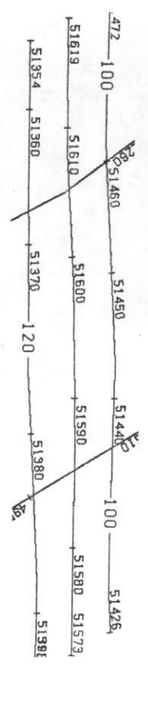
BAR0 PRESSURE MM HG: MIN 619.8, MAX 632.6, MEAN 624.0, STD DEV 3.210

LINE 100

LINE 110
IDAH0 SURVEY - NEM0 DETAIL AREA - GE0METRICS
DATA ACQUIRED 79239

H0RIZ0NTAL SCALE 1: 62500





RADAR ALTMTR FEET: MIN 269.8, MAX 443.7, MEAN 345.4, STD DEV 36.21

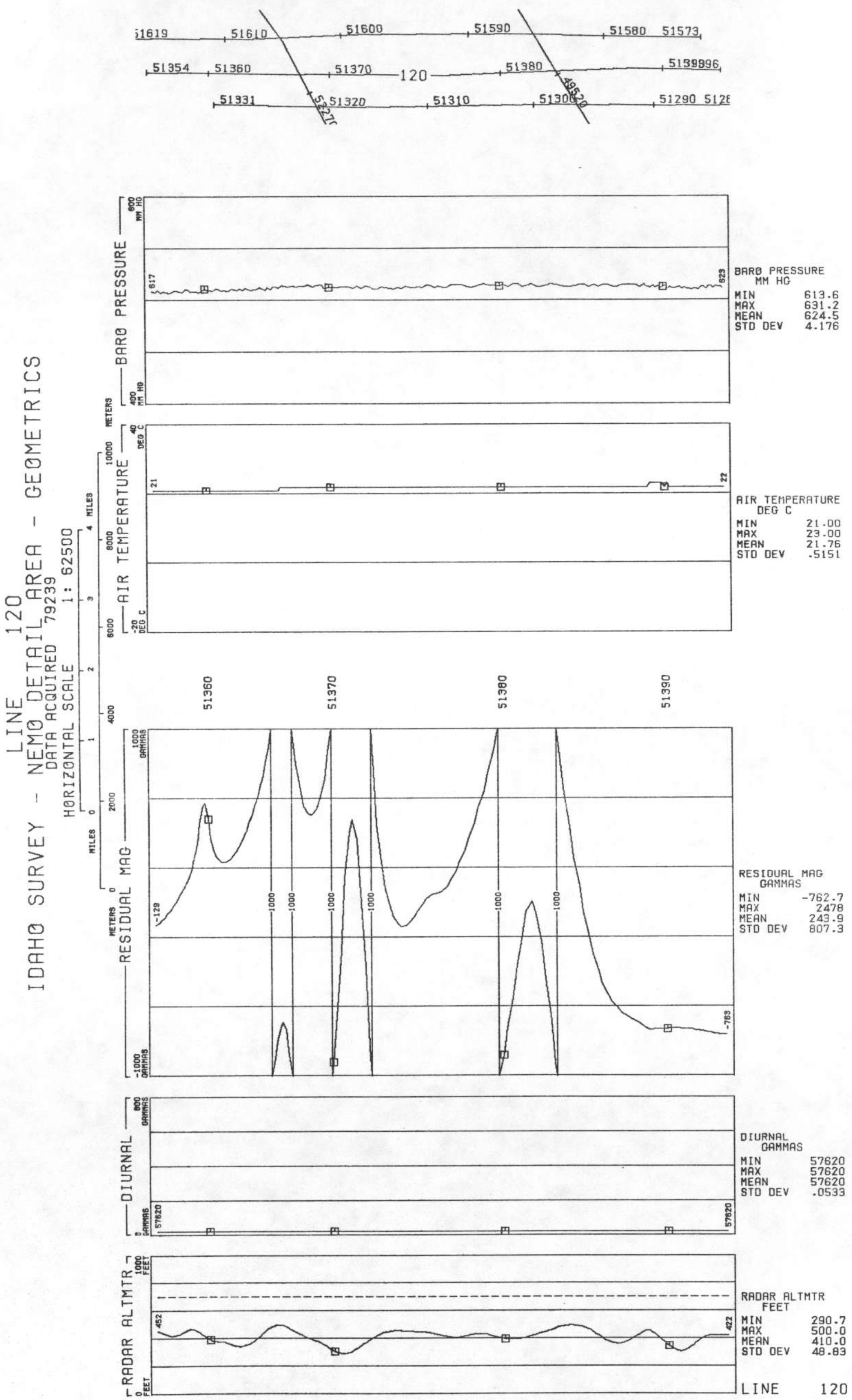
DIURNAL GAMMAS: MIN 57621, MAX 57623, MEAN 57622, STD DEV .3712

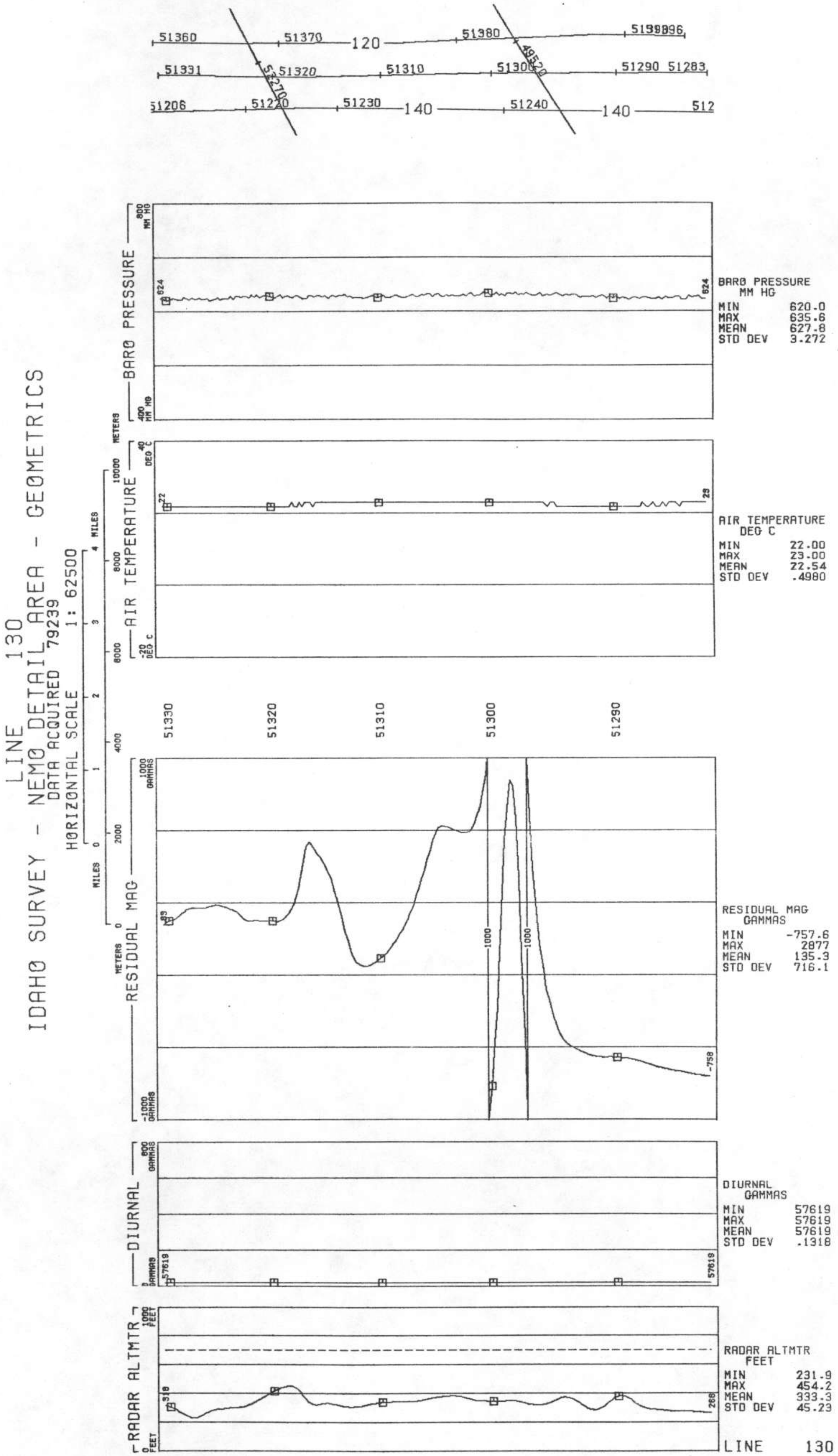
RESIDUAL MAG GAMMAS: MIN -753.4, MAX 4052, MEAN 498.2, STD DEV 1154

AIR TEMPERATURE DEG C: MIN 22.00, MAX 22.20, MEAN 22.28, STD DEV .4408

BAR0 PRESSURE MM HG: MIN 617.7, MAX 626.1, MEAN 622.1, STD DEV 3.269

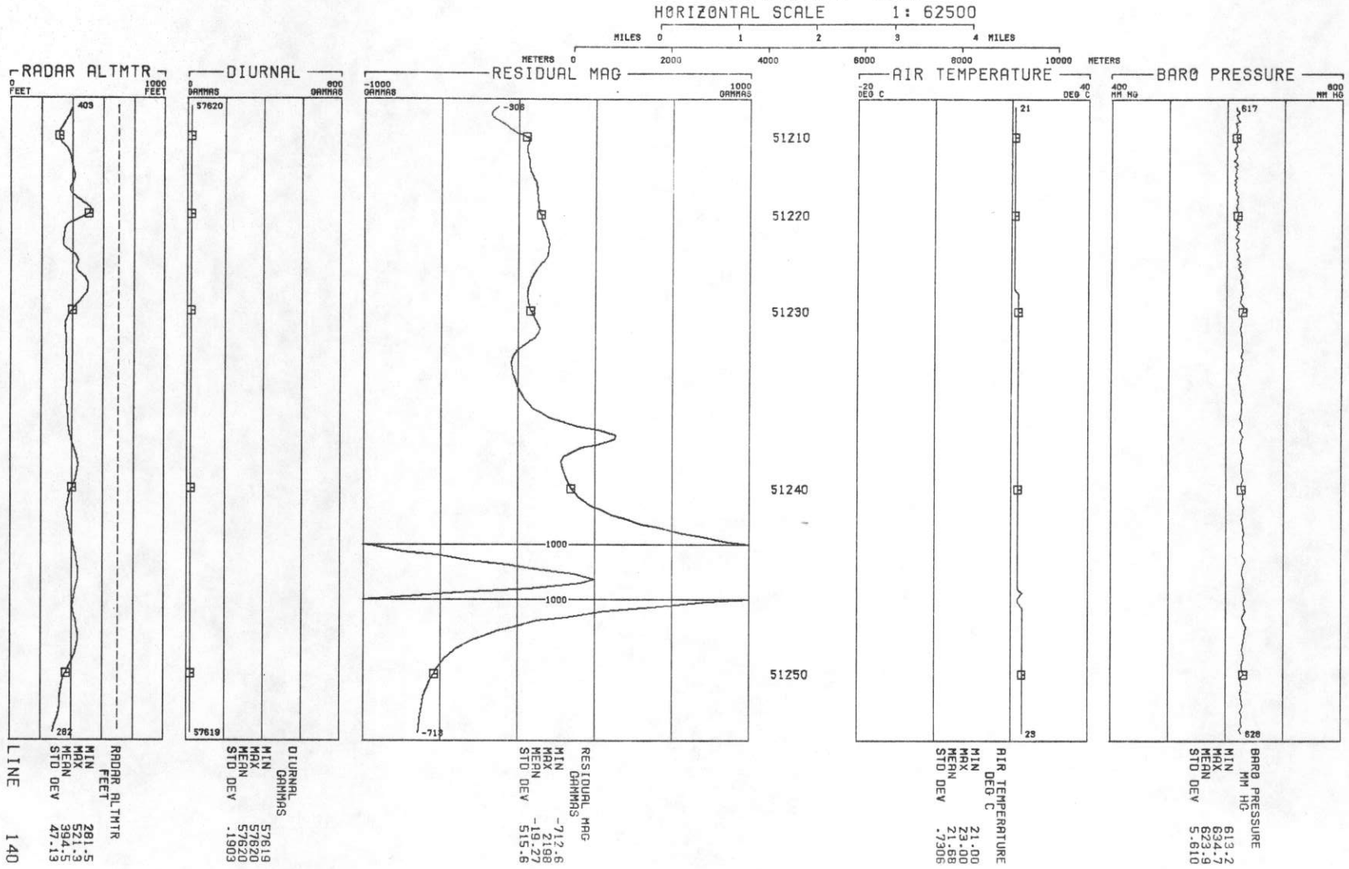
LINE 110

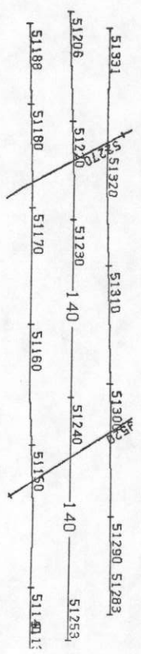

IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 120
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
51619 51610 51600 51590 51580 51573
51354 51360 51370 120 51380 5199996
51331 51320 51310 51300 51290
BARO PRESSURE
BARO PRESSURE MM HG
MIN 613.6
MAX 631.2
MEAN 624.5
STD DEV 4.176
AIR TEMPERATURE
AIR TEMPERATURE DEG C
MIN 21.00
MAX 23.00
MEAN 21.76
STD DEV .5151
51360 51370 51380 51390
RESIDUAL MAG
RESIDUAL MAG GAMMAS
MIN -762.7
MAX 2478
MEAN 243.9
STD DEV 807.3
DIURNAL
DIURNAL GAMMAS
MIN 57620
MAX 57620
MEAN 57620
STD DEV .0533
RADAR ALTMTR
RADAR ALTMTR FEET
MIN 290.7
MAX 500.0
MEAN 410.0
STD DEV 48.83
LINE 120


IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 130
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
51360 51370 120 51380 5199996
51331 51320 51310 51300 51290 51283
51206 51230 140 51240 140 512
BARO PRESSURE
BARO PRESSURE MM HG
MIN 620.0
MAX 635.6
MEAN 627.8
STD DEV 3.272
AIR TEMPERATURE
AIR TEMPERATURE DEG C
MIN 22.00
MAX 23.00
MEAN 22.54
STD DEV .4980
51330 51320 51310 51300 51290
RESIDUAL MAG
RESIDUAL MAG GAMMAS
MIN -757.6
MAX 2877
MEAN 135.3
STD DEV 716.1
DIURNAL
DIURNAL GAMMAS
MIN 57619
MAX 57619
MEAN 57619
STD DEV .1318
RADAR ALTMTR
RADAR ALTMTR FEET
MIN 231.9
MAX 454.2
MEAN 333.3
STD DEV 45.23
LINE 130

LINE 140
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500



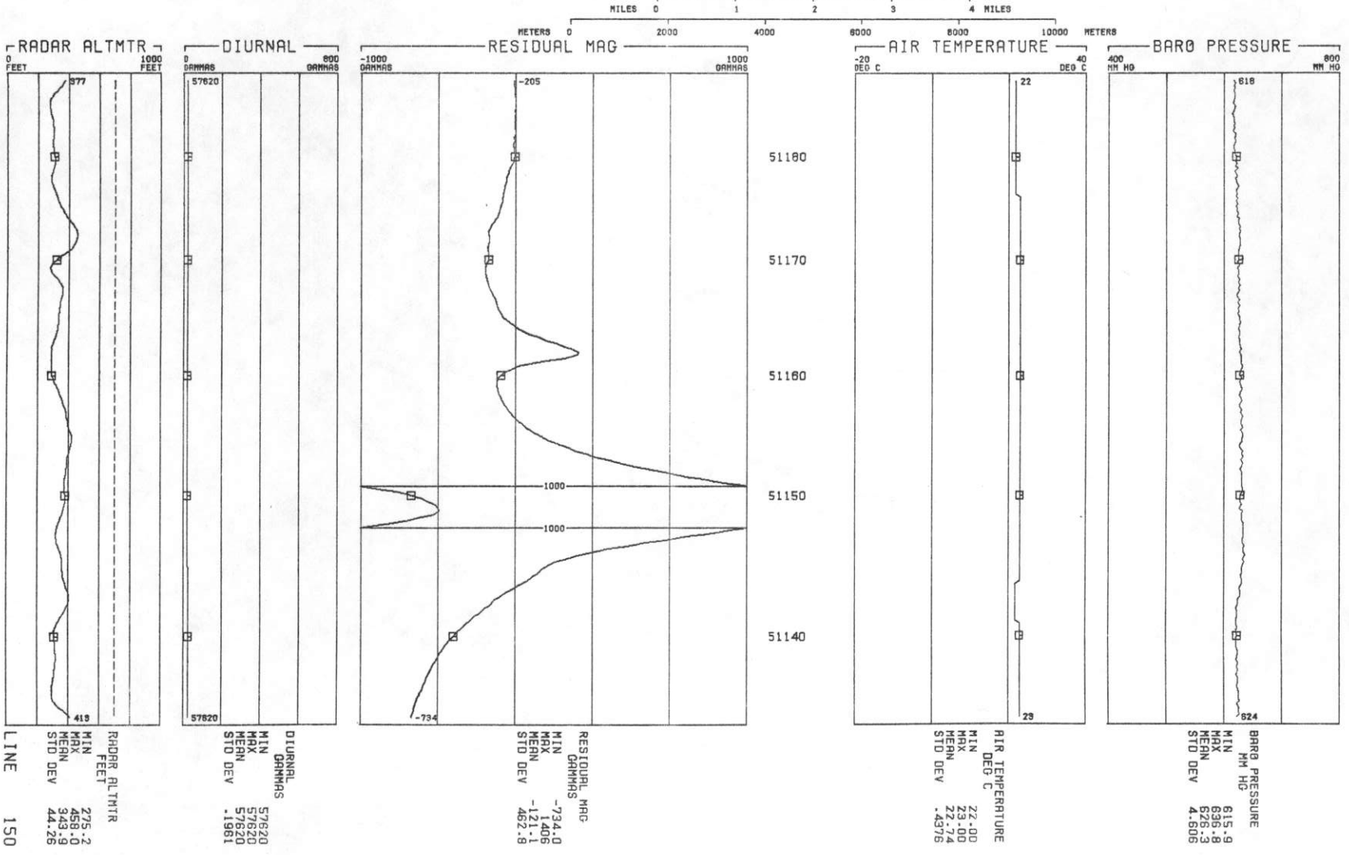


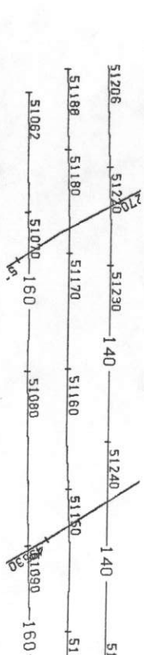
LINE 140

	RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BARO PRESSURE MM HG
MIN	281.5	57619	-712.6	21.00	613.2
MAX	521.0	57620	-219.8	23.00	634.7
MEAN	394.5	57620	-19.27	22.08	623.9
STD DEV	47.13	.1903	515.8	.7306	5.810

LINE 150
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500





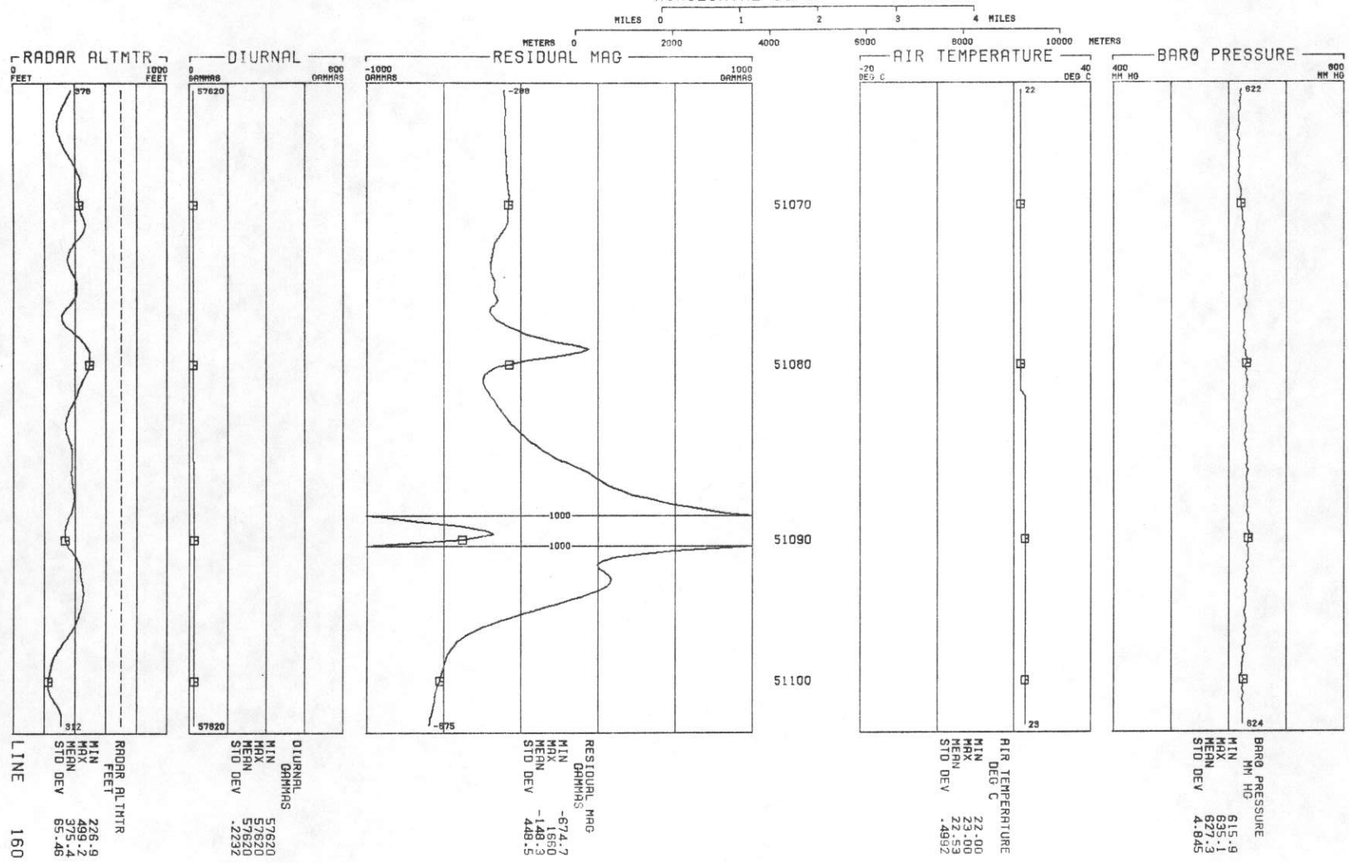
LINE 150

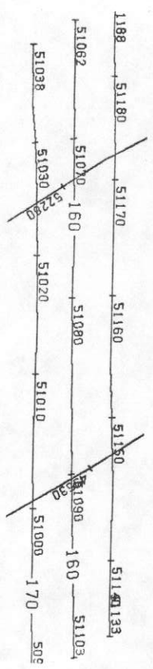
	RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BARO PRESSURE MM HG
MIN	275.2	57620	-734.0	22.00	615.9
MAX	459.0	57620	-121.1	23.00	626.8
MEAN	349.0	57620	462.8	22.74	623.3
STD DEV	44.26	.1981		.4376	4.686

LINE 160
IDAH0 SURVEY - NEM0 DETAIL AREA - GE0METRICS

DATA ACQUIRED 79239

H0RIZ0NTAL SCALE 1: 62500





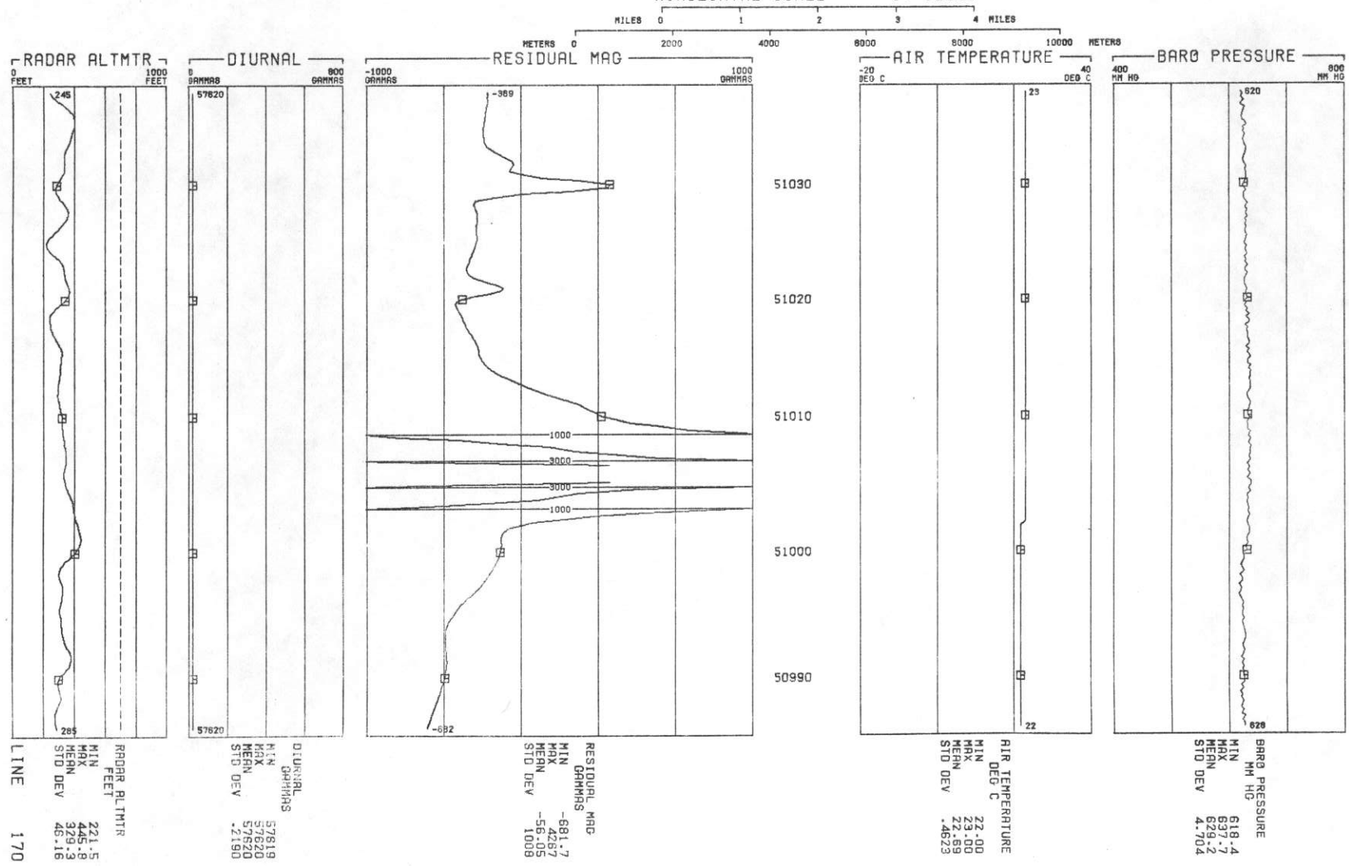
LINE 160

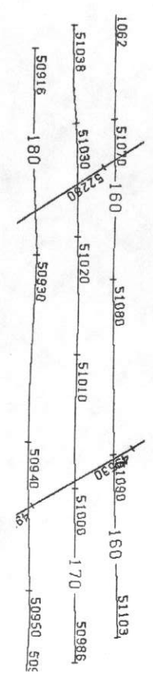
	RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BAR0 PRESSURE MM HG
MIN	226.9	57620	-674.7	22.00	615.9
MAX	499.2	57620	1000	23.00	635.1
MEAN	377.4	57620	-146.0	22.69	627.3
STD DEV	65.46	.2232	448.5	.4992	4.845

LINE 170
IDAH0 SURVEY - NEM0 DETAIL AREA - GE0METRICS

DATA ACQUIRED 79239

H0RIZ0NTAL SCALE 1: 62500



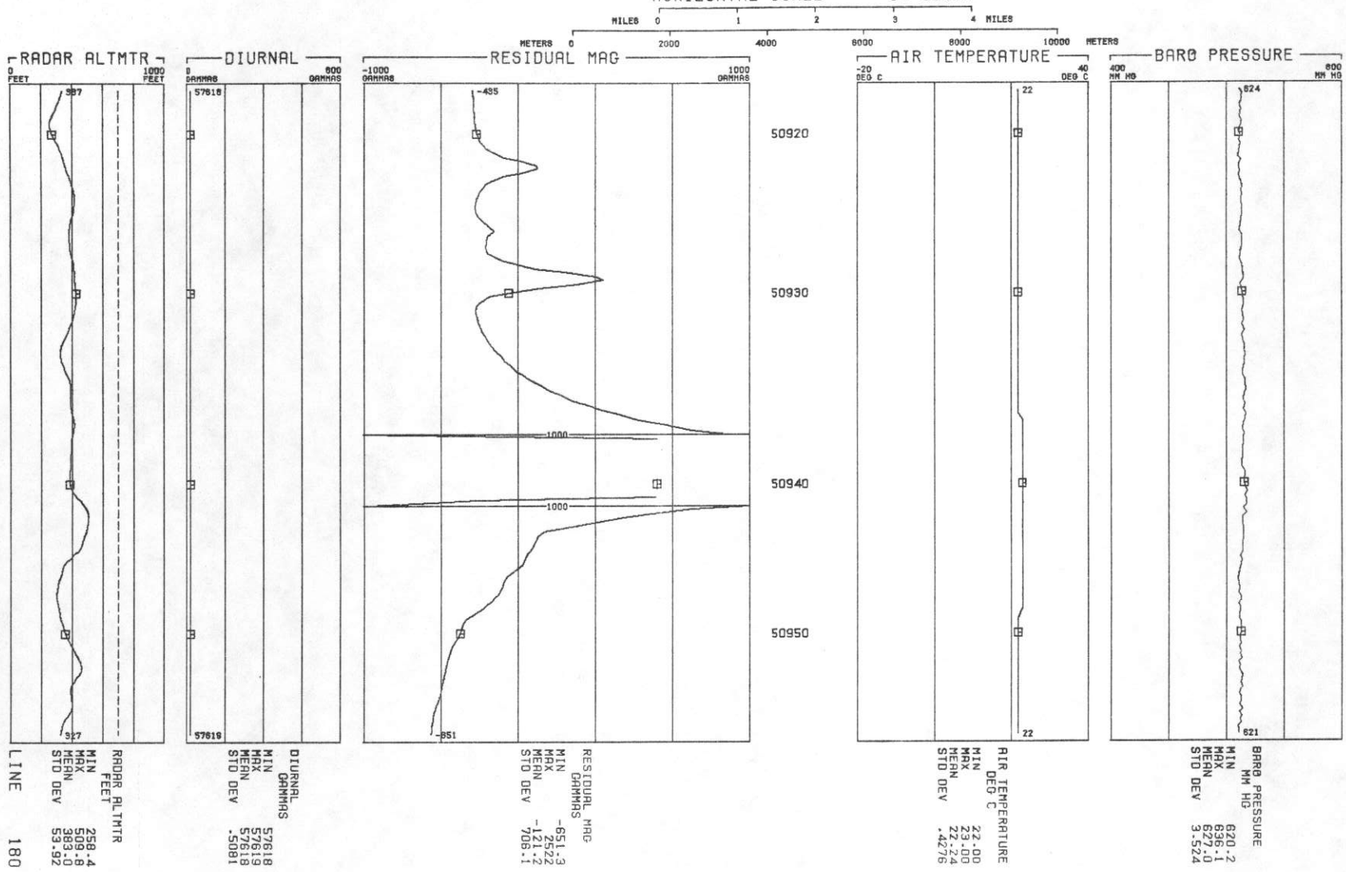


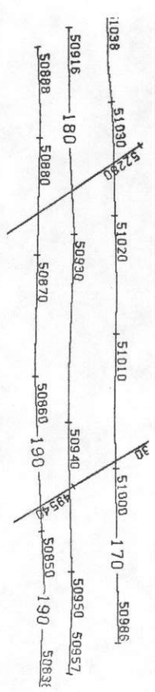
LINE 170

	RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BAR0 PRESSURE MM HG
MIN	221.5	57819	-681.7	22.00	618.4
MAX	445.8	57620	1000	23.00	637.7
MEAN	329.3	57620	-56.85	22.69	629.2
STD DEV	46.16	.2190	100.8	.4623	4.704

LINE 180
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500





RADAR ALTMTR FEET
MIN 258.4
MAX 509.8
MEAN 383.0
STD DEV 53.92

DIURNAL GAMMAS
MIN 57618
MAX 57619
MEAN 57618
STD DEV .5081

RESIDUAL MAG GAMMAS
MIN -651.3
MAX 252.2
MEAN -121.2
STD DEV 706.1

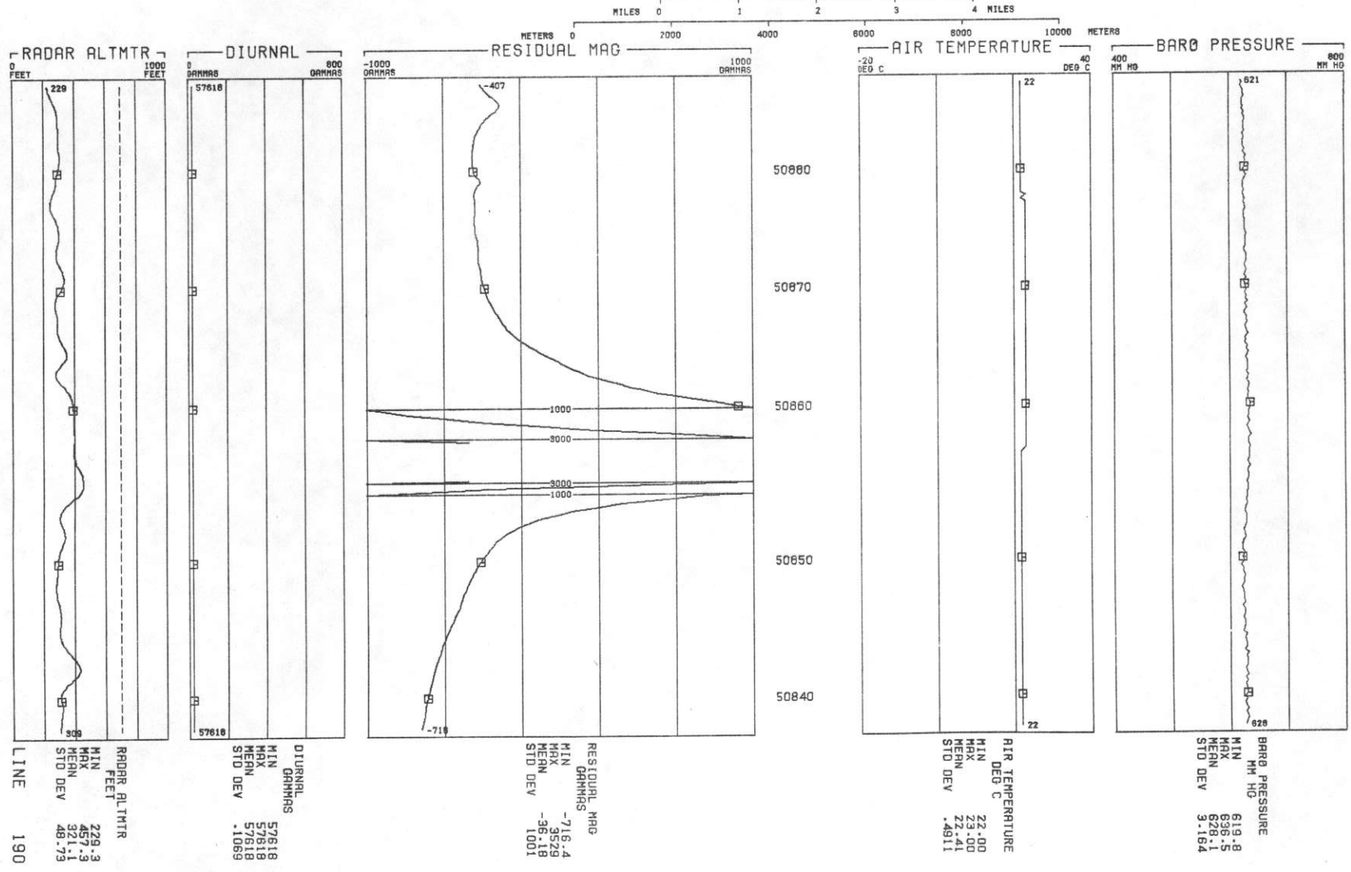
AIR TEMPERATURE DEG C
MIN 22.00
MAX 23.00
MEAN 22.24
STD DEV .4276

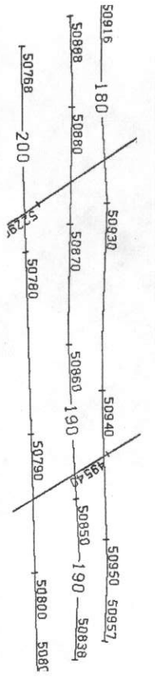
BARO PRESSURE MM HG
MIN 620.2
MAX 628.1
MEAN 627.0
STD DEV 3.524

LINE 180

LINE 190
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500





RADAR ALTMTR FEET
MIN 229.3
MAX 457.3
MEAN 348.11
STD DEV 48.73

DIURNAL GAMMAS
MIN 57618
MAX 57618
MEAN 57618
STD DEV .1069

RESIDUAL MAG GAMMAS
MIN -716.4
MAX 100.1
MEAN -36.19
STD DEV 100.1

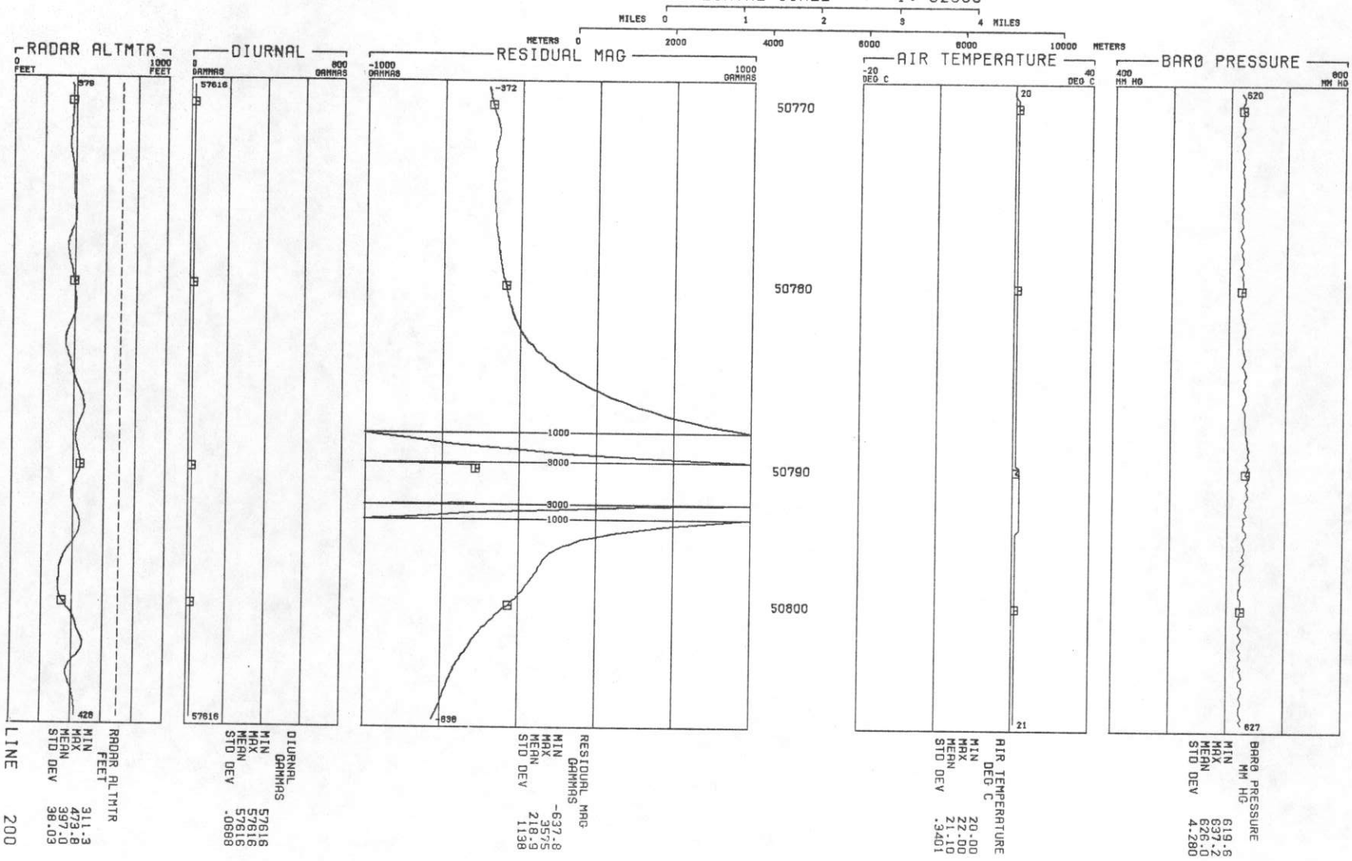
AIR TEMPERATURE DEG C
MIN 22.00
MAX 23.00
MEAN 22.41
STD DEV .4911

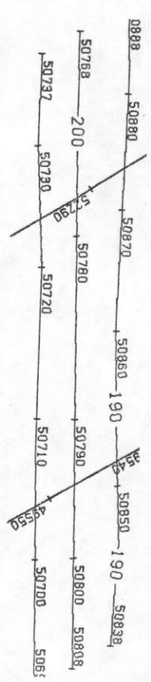
BARO PRESSURE MM HG
MIN 619.8
MAX 636.5
MEAN 628.1
STD DEV 3.164

LINE 190

LINE 200
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500



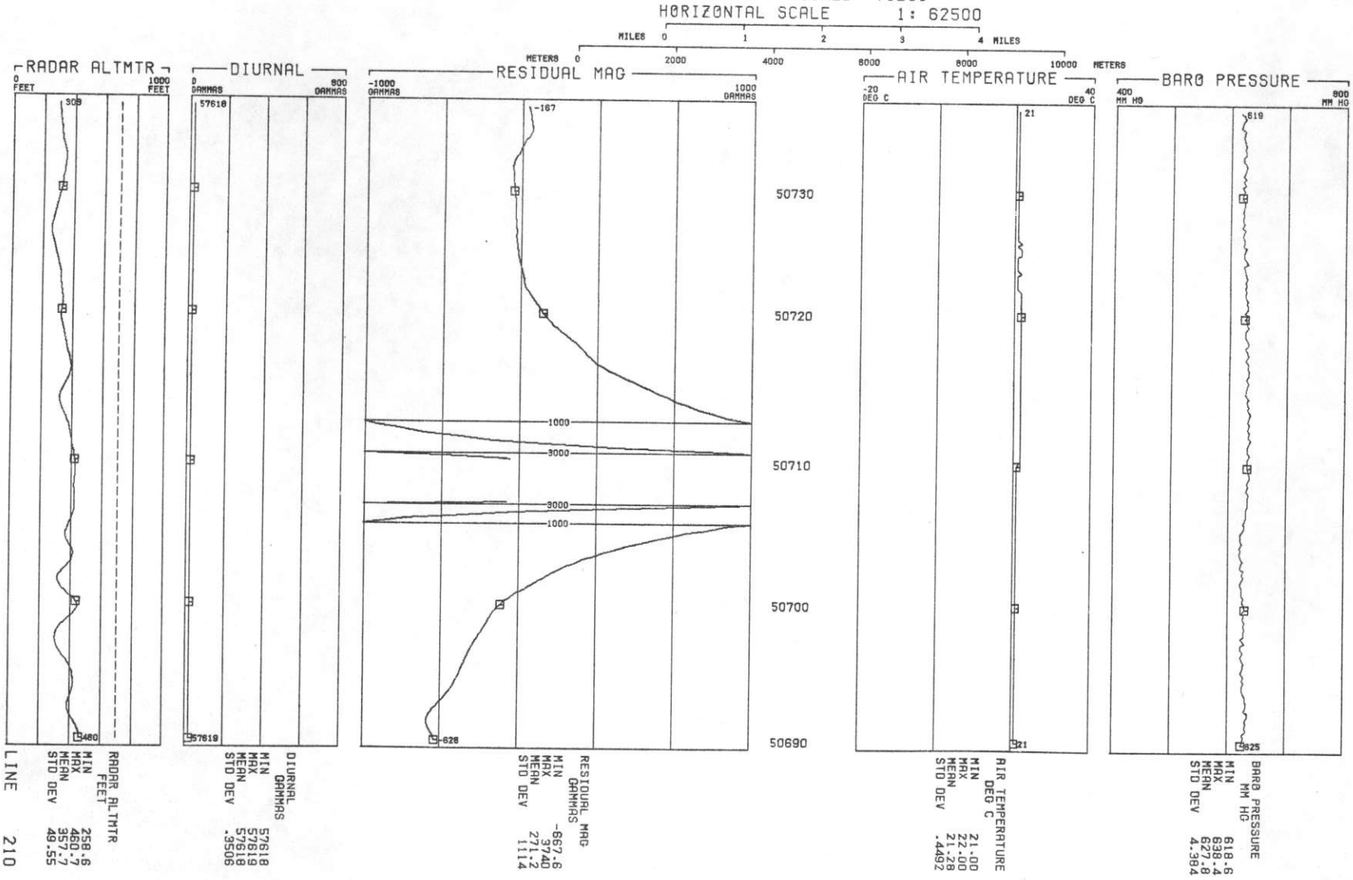


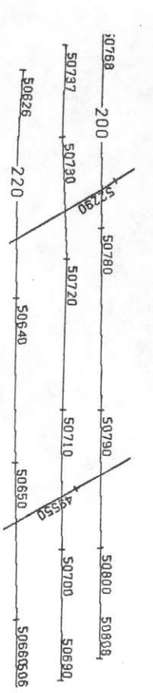
LINE 200

	RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BARO PRESSURE MM HG
MIN	311.3	57616	-637.8	20.00	619.6
MAX	473.8	57616	357.5	22.00	639.2
MEAN	397.10	57616	219.9	21.10	626.0
STD DEV	36.03	.0868	1138	.3401	4.280

LINE 210
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

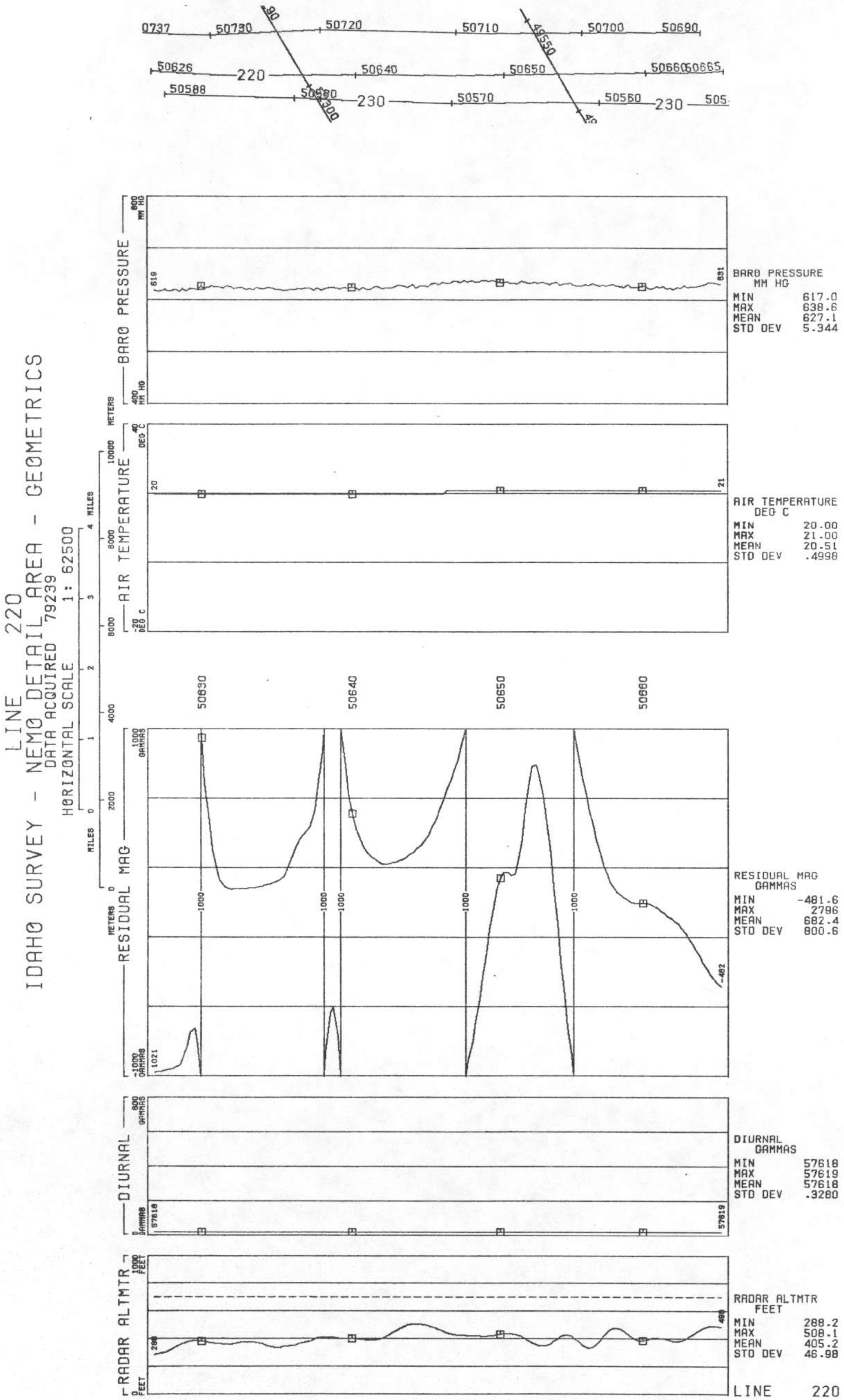
HORIZONTAL SCALE 1: 62500

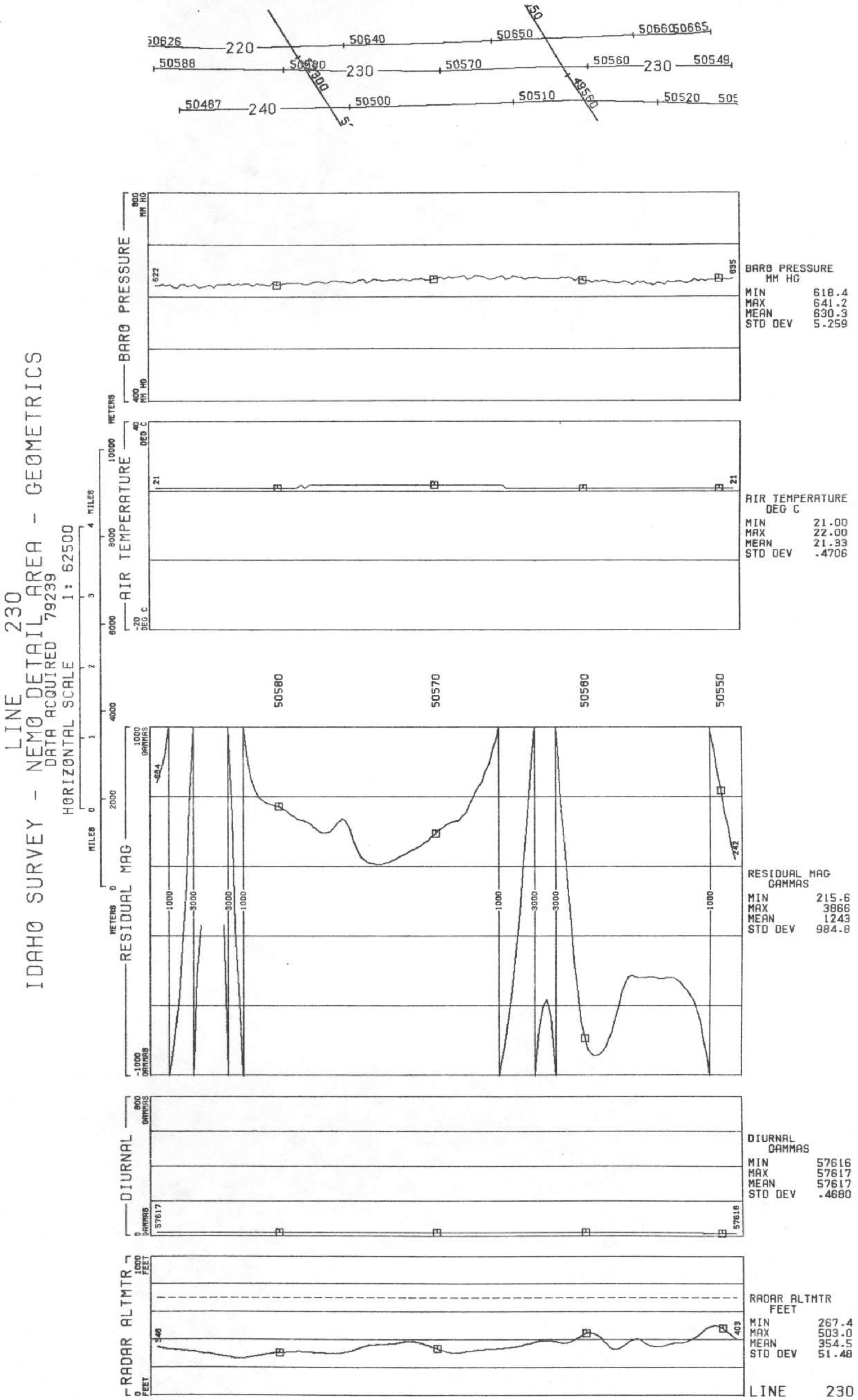




LINE 210

	RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BARO PRESSURE MM HG
MIN	258.6	57618	-867.6	21.00	618.6
MAX	460.7	57619	374.0	22.00	638.4
MEAN	357.7	57618	227	21.28	627.8
STD DEV	49.55	.9506	1114	.4492	4.384


IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 220
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
BARO PRESSURE
MM HG
MIN 617.0
MAX 638.6
MEAN 627.1
STD DEV 5.344
AIR TEMPERATURE
DEG C
MIN 20.00
MAX 21.00
MEAN 20.51
STD DEV .4998
RESIDUAL MAG
GAMMAS
MIN -481.6
MAX 2796
MEAN 682.4
STD DEV 800.6
DIURNAL
GAMMAS
MIN 57618
MAX 57619
MEAN 57618
STD DEV .3280
RADAR ALTMTR
FEET
MIN 288.2
MAX 508.1
MEAN 405.2
STD DEV 46.98
LINE 220


IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
LINE 230
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
BARO PRESSURE
MM HG
MIN 618.4
MAX 641.2
MEAN 630.3
STD DEV 5.259
AIR TEMPERATURE
DEG C
MIN 21.00
MAX 22.00
MEAN 21.33
STD DEV .4706
RESIDUAL MAG
GAMMAS
MIN 215.6
MAX 3866
MEAN 1243
STD DEV 984.8
DIURNAL
GAMMAS
MIN 57616
MAX 57617
MEAN 57617
STD DEV .4680
RADAR ALTMTR
FEET
MIN 267.4
MAX 503.0
MEAN 354.5
STD DEV 51.48
LINE 230

1588
50480
230
50570
50560
230
50549
50487
240
50500
50510
49560
50520
50528
50459
250
50450
50440
50430
250
504

LINE 240
IDAH0 SURVEY - NEM0 DETAIL AREA - GE0METRICS
DATA ACQUIRED 79239
H0RIZ0NTAL SCALE 1: 62500
MILES
METERS
BAR0 PRESSURE
MM HG
624
631
BAR0 PRESSURE
MM HG
MIN 619.6
MAX 640.3
MEAN 629.9
STD DEV 5.316
AIR TEMPERATURE
DEG C
20
21
AIR TEMPERATURE
DEG C
MIN 20.00
MAX 22.00
MEAN 20.74
STD DEV .5904
50490
50500
50510
50520
RESIDUAL MAG
GAMMAS
113
1074
1000
3000
RESIDUAL MAG
GAMMAS
MIN 112.7
MAX 9580
MEAN 1167
STD DEV 892.0
DIURNAL
GAMMAS
57614
57615
DIURNAL
GAMMAS
MIN 57614
MAX 57615
MEAN 57614
STD DEV .4325
RADAR ALTMTR
FEET
398
RADAR ALTMTR
FEET
MIN 308.0
MAX 477.3
MEAN 395.6
STD DEV 41.66
LINE 240

0487
240
50500
50510
49560
50520
50528
50459
250
50450
50440
50430
250
50416
50353
260
50370
260

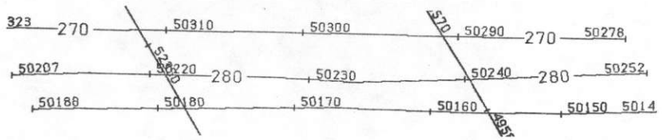
LINE 250
IDAH0 SURVEY - NEM0 DETAIL AREA - GE0METRICS
DATA ACQUIRED 79239
H0RIZ0NTAL SCALE 1: 62500
MILES
METERS
BAR0 PRESSURE
MM HG
628
630
BAR0 PRESSURE
MM HG
MIN 624.8
MAX 640.3
MEAN 631.1
STD DEV 3.160
AIR TEMPERATURE
DEG C
21
AIR TEMPERATURE
DEG C
MIN 21.00
MAX 21.00
MEAN 21.00
STD DEV .0000
50450
50440
50430
50420
RESIDUAL MAG
GAMMAS
185
1000
RESIDUAL MAG
GAMMAS
MIN -123.4
MAX 1859
MEAN 437.2
STD DEV 327.3
DIURNAL
GAMMAS
57613
57612
DIURNAL
GAMMAS
MIN 57612
MAX 57613
MEAN 57613
STD DEV .1191
RADAR ALTMTR
FEET
392
395
RADAR ALTMTR
FEET
MIN 270.2
MAX 452.0
MEAN 365.2
STD DEV 41.31
LINE 250

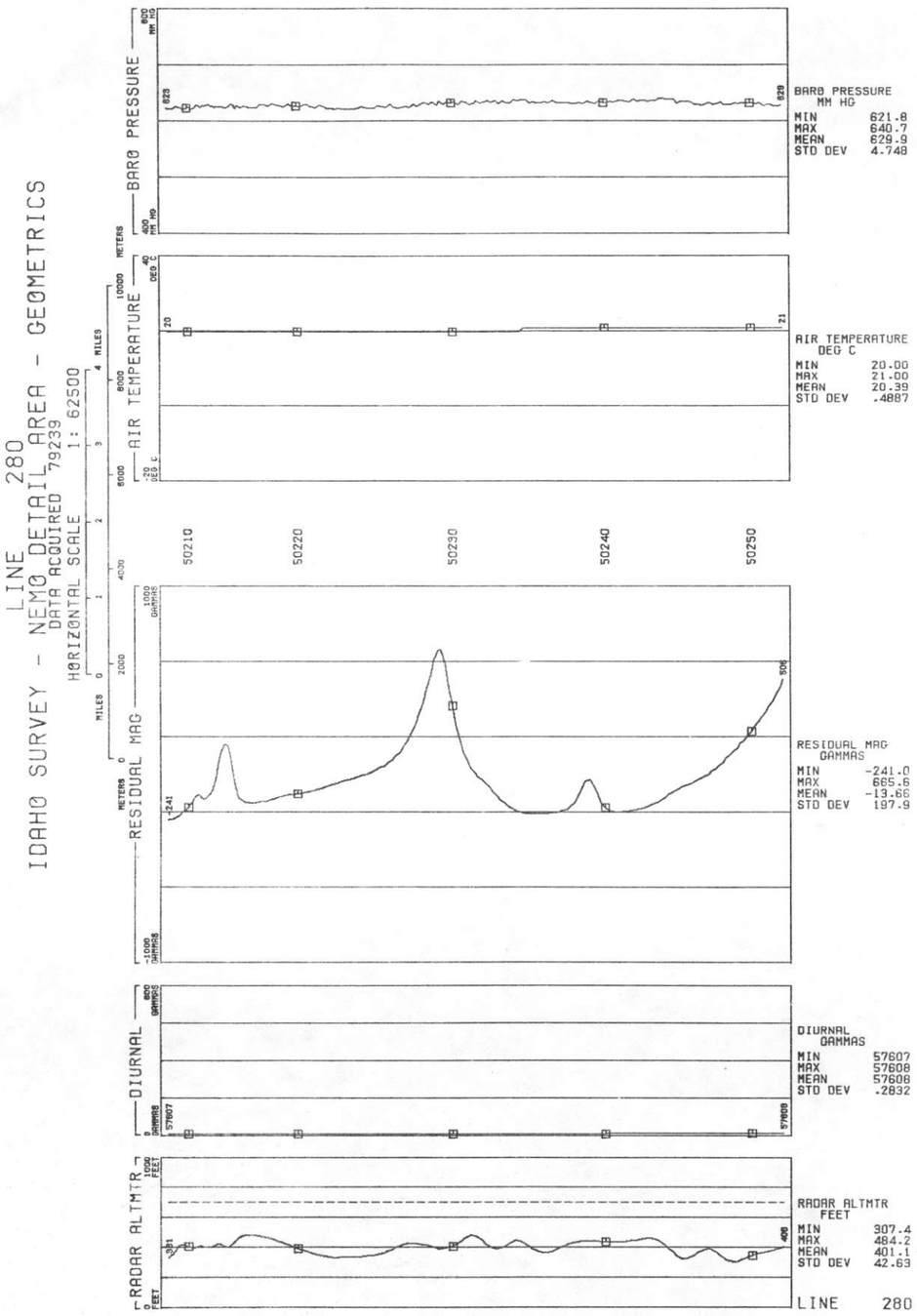
LINE 260
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

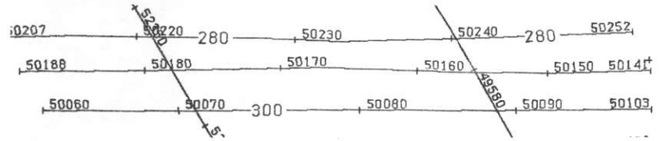
LINE 260

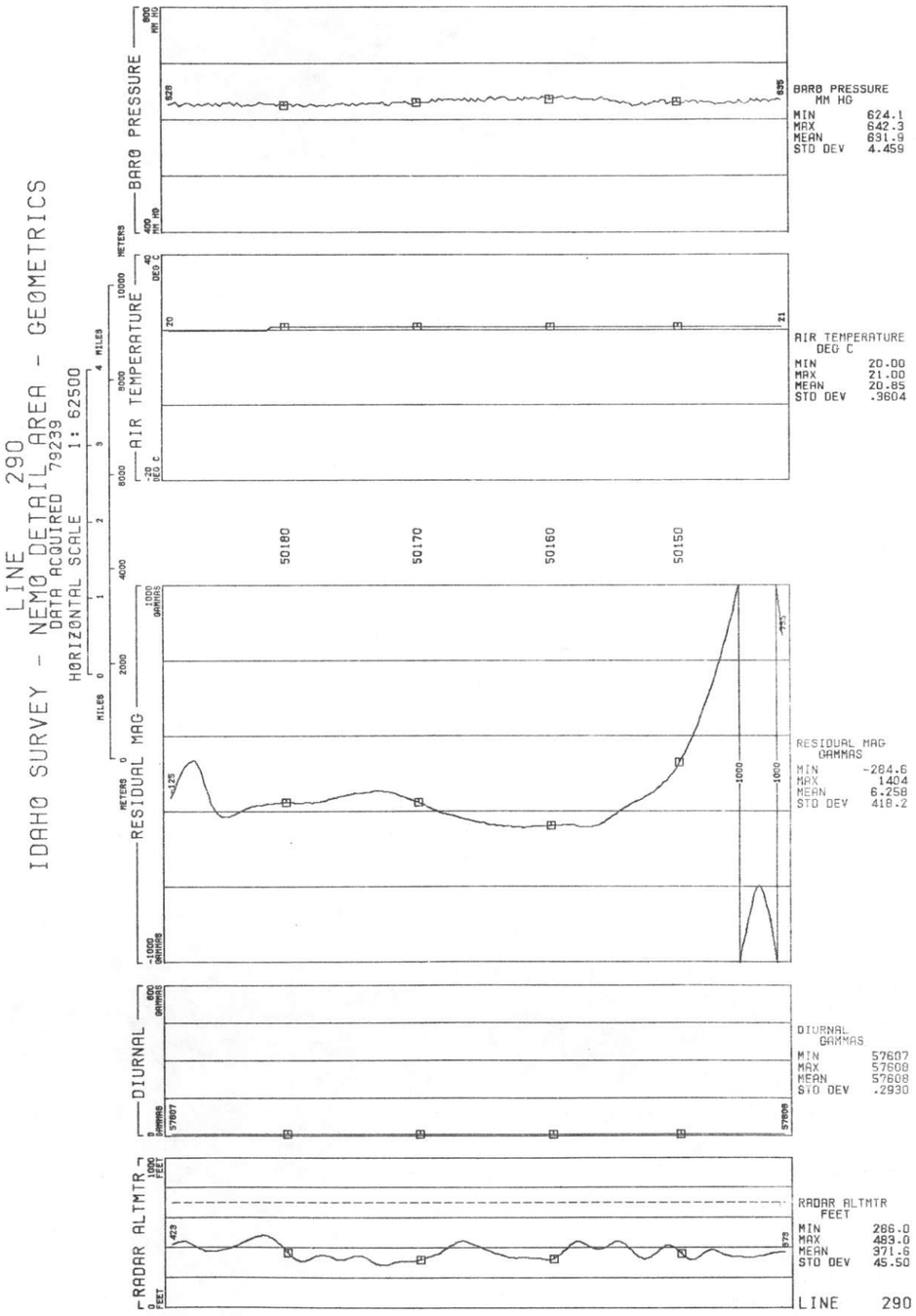
LINE 270
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

LINE 270


323
270
50310
50300
270
50290
270
50278
50207
280
50230
280
50252
50188
50180
50170
50160
50150
5014


LINE 280
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
BARO PRESSURE MM HG
MIN 621.8
MAX 640.7
MEAN 629.9
STD DEV 4.748
AIR TEMPERATURE DEG C
MIN 20.00
MAX 21.00
MEAN 20.39
STD DEV .4887
50210
50220
50230
50240
50250
RESIDUAL MAG GAMMAS
MIN -241.0
MAX 685.6
MEAN -13.66
STD DEV 197.9
DIURNAL GAMMAS
MIN 57607
MAX 57608
MEAN 57608
STD DEV .2832
RADAR ALTMTR FEET
MIN 307.4
MAX 484.2
MEAN 401.1
STD DEV 42.69
LINE 280


50207
50220
280
50230
50240
280
50252
50188
50180
50170
50160
50150
5014
50060
50070
300
50080
50090
50103

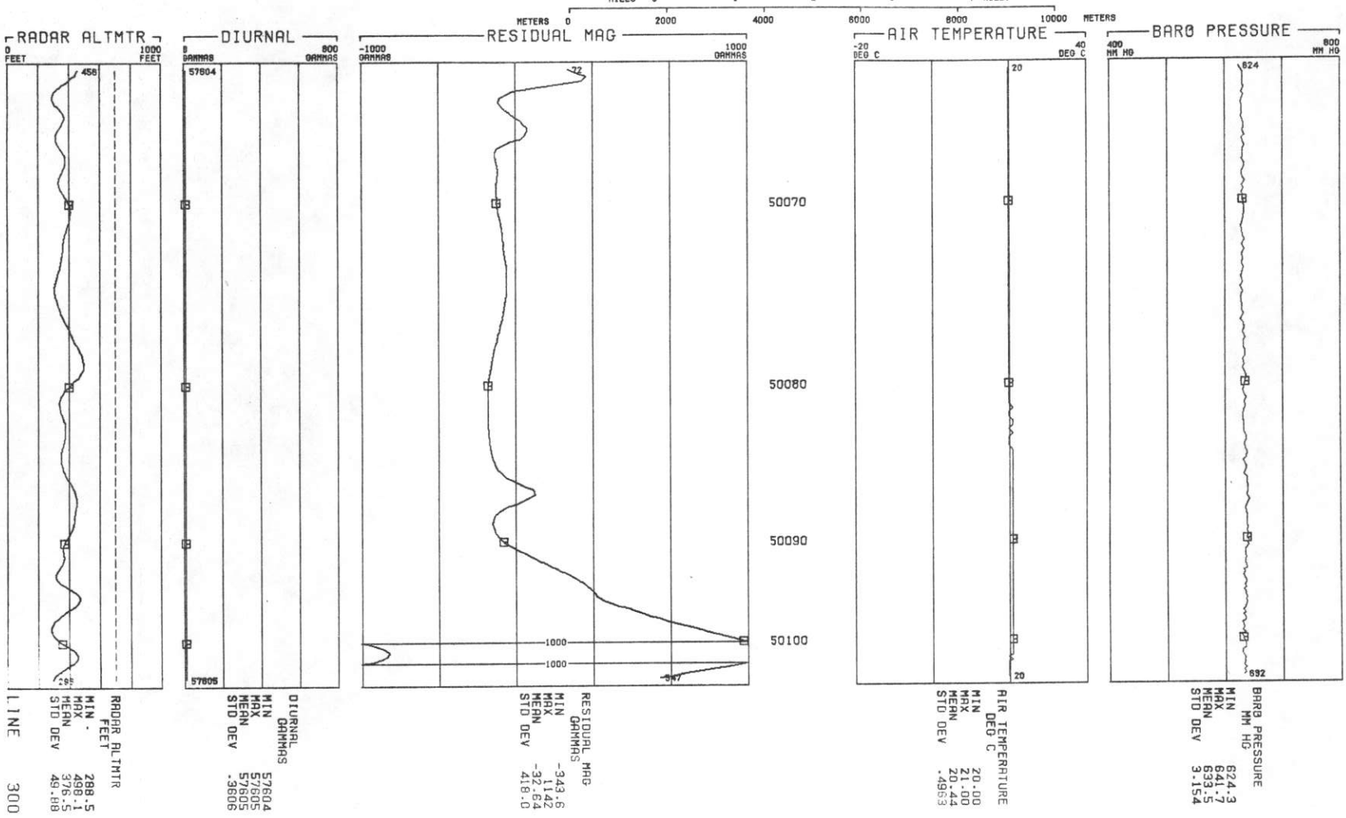

LINE 290
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
BARO PRESSURE MM HG
MIN 624.1
MAX 642.3
MEAN 631.9
STD DEV 4.459
AIR TEMPERATURE DEG C
MIN 20.00
MAX 21.00
MEAN 20.85
STD DEV .3604
50180
50170
50160
50150
RESIDUAL MAG GAMMAS
MIN -284.6
MAX 1404
MEAN 6.258
STD DEV 418.2
DIURNAL GAMMAS
MIN 57607
MAX 57608
MEAN 57608
STD DEV .2930
RADAR ALTMTR FEET
MIN 286.0
MAX 483.0
MEAN 371.6
STD DEV 45.50
LINE 290

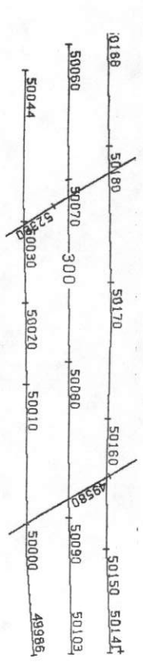
LINE 300

IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS

DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500





LINE 300

RADAR ALTMTR FEET
MIN 288.5
MAX 499.1
MEAN 376.5
STD DEV 49.88

DIURNAL GAMMAS
MIN 57604
MAX 57605
MEAN 57605
STD DEV .3606

RESIDUAL MAG GAMMAS
MIN -343.6
MAX 114.2
MEAN -32.64
STD DEV 416.0

AIR TEMPERATURE DEG C
MIN 20.00
MAX 21.00
MEAN 20.44
STD DEV .4963

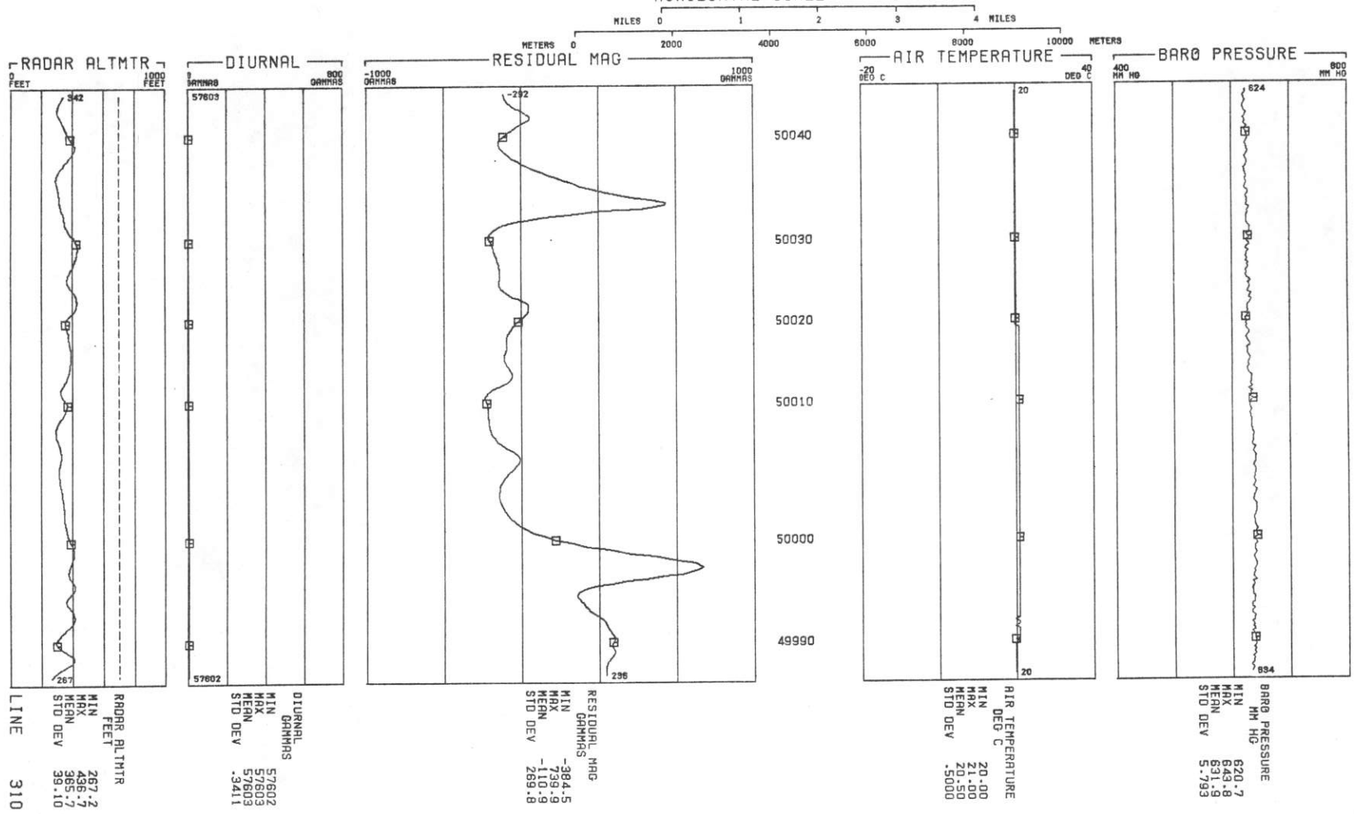
BARO PRESSURE MM HG
MIN 624.3
MAX 633.5
MEAN 631.7
STD DEV 3.154

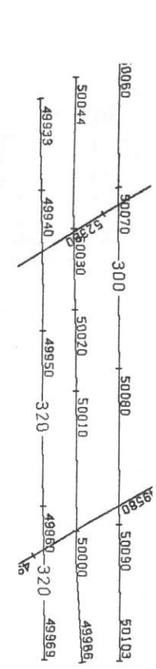
LINE 310

IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS

DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500





LINE 310

RADAR ALTMTR FEET
MIN 267.2
MAX 496.7
MEAN 385.7
STD DEV 38.10

DIURNAL GAMMAS
MIN 57602
MAX 57603
MEAN 57603
STD DEV .3411

RESIDUAL MAG GAMMAS
MIN -384.5
MAX 114.9
MEAN -110.9
STD DEV 269.8

AIR TEMPERATURE DEG C
MIN 20.00
MAX 21.00
MEAN 20.50
STD DEV .5000

BARO PRESSURE MM HG
MIN 620.7
MAX 643.8
MEAN 631.9
STD DEV 5.793

50044
50030
50020
50010
50000
49986
49933
49940
49950
320
49960
320
49969
49915
49910
49900
49890
49880
49864
52350
49560

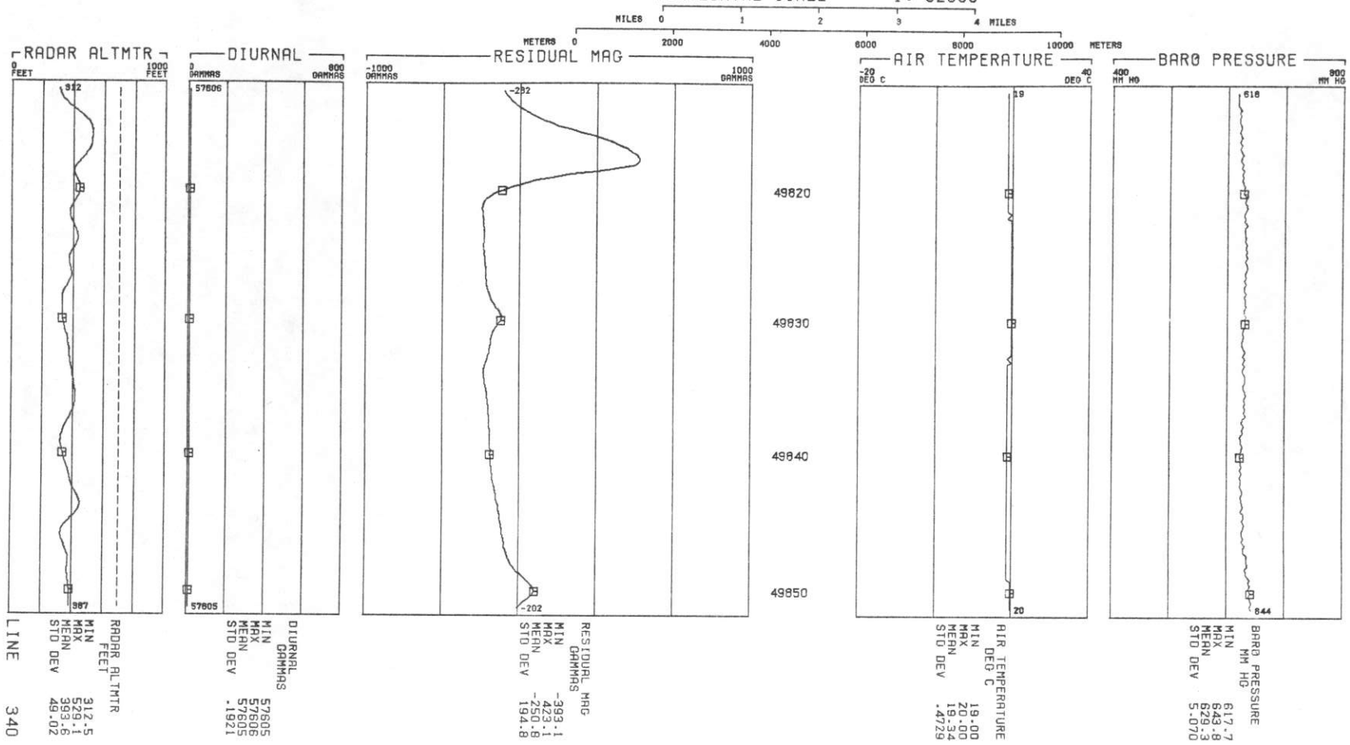
LINE 320
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
BARO PRESSURE
617
645
BARO PRESSURE MM HG
MIN 617.3
MAX 644.7
MEAN 633.0
STD DEV 5.437
AIR TEMPERATURE
18
21
AIR TEMPERATURE DEG C
MIN 19.00
MAX 21.00
MEAN 20.01
STD DEV .5122
49940
49950
49960
RESIDUAL MAG
-145
-171
RESIDUAL MAG GAMMAS
MIN -392.2
MAX 408.5
MEAN -127.4
STD DEV 204.7
DIURNAL
57603
57603
DIURNAL GAMMAS
MIN 57603
MAX 57603
MEAN 57603
STD DEV .2121
RADAR ALTMTR
380
388
RADAR ALTMTR FEET
MIN 293.6
MAX 447.6
MEAN 375.5
STD DEV 39.38
LINE 320

49933
49940
49950
320
49960
320
49969
49915
49910
49900
49890
49880
49864
49560
49811
49827
49830
49840
340
49851
49310

LINE 330
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500
BARO PRESSURE
624
643
BARO PRESSURE MM HG
MIN 616.2
MAX 645.2
MEAN 628.4
STD DEV 6.542
AIR TEMPERATURE
20
21
AIR TEMPERATURE DEG C
MIN 20.00
MAX 21.00
MEAN 20.20
STD DEV .4007
49910
49900
49890
49880
49870
RESIDUAL MAG
-350
8
RESIDUAL MAG GAMMAS
MIN -959.0
MAX 591.5
MEAN -216.3
STD DEV 195.1
DIURNAL
57603
57604
DIURNAL GAMMAS
MIN 57602
MAX 57604
MEAN 57603
STD DEV .3948
RADAR ALTMTR
313
412
RADAR ALTMTR FEET
MIN 286.3
MAX 457.3
MEAN 369.8
STD DEV 40.14
LINE 330

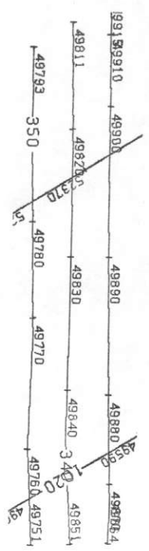
LINE 340
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500



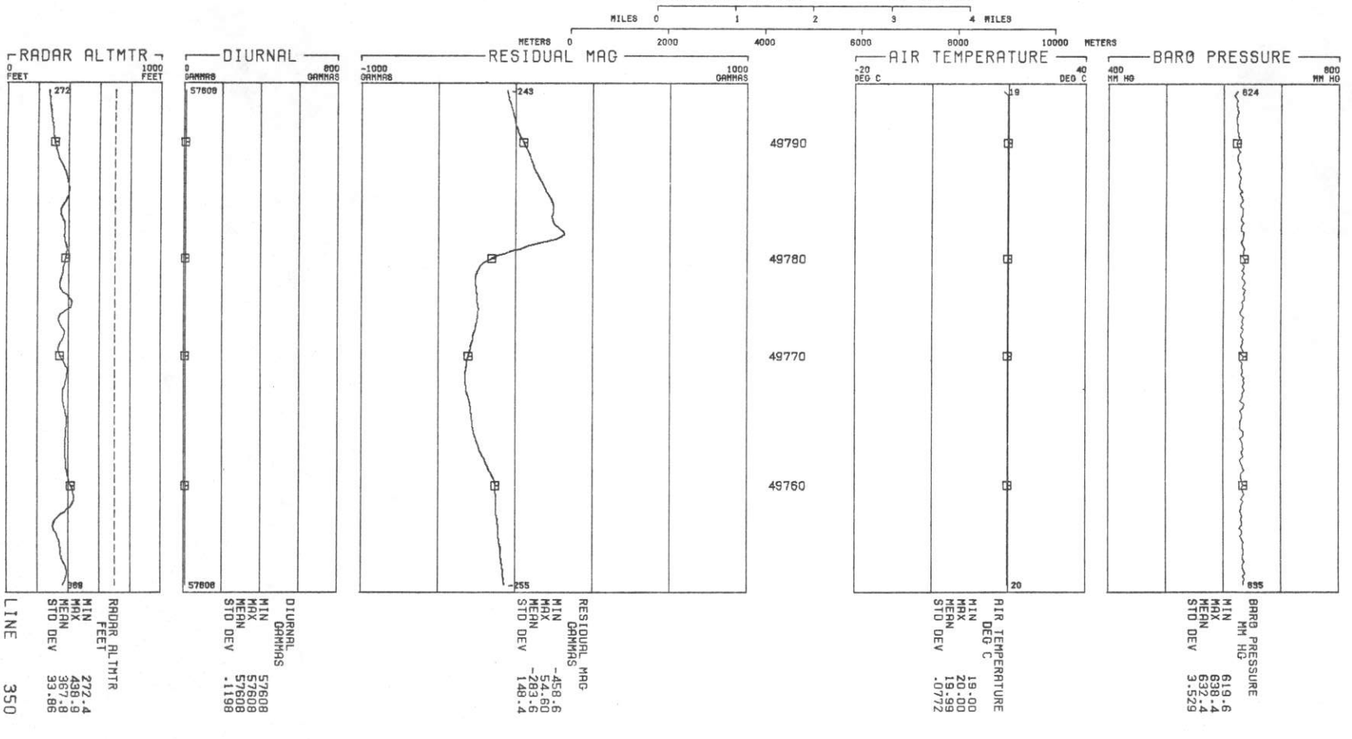
LINE 340

RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BARO PRESSURE MM HG
MIN 312.5	MIN 57805	MIN -393.1	MIN 19.00	MIN 617.7
MAX 529.1	MAX 57806	MAX 423.1	MAX 20.00	MAX 629.9
MEAN 393.6	MEAN 57805	MEAN -250.8	MEAN 19.34	MEAN 625.8
STD DEV 49.02	STD DEV .1921	STD DEV 194.8	STD DEV .4729	STD DEV 5.070



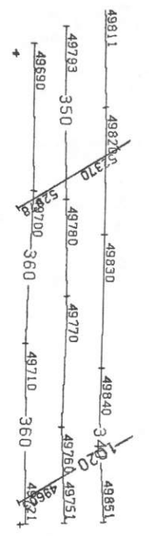
LINE 350
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500



LINE 350

RADAR ALTMTR FEET	DIURNAL GAMMAS	RESIDUAL MAG GAMMAS	AIR TEMPERATURE DEG C	BARO PRESSURE MM HG
MIN 272.4	MIN 57808	MIN -458.6	MIN 19.00	MIN 619.6
MAX 498.0	MAX 57809	MAX 54.60	MAX 20.00	MAX 638.4
MEAN 367.8	MEAN 57808	MEAN -283.6	MEAN 19.99	MEAN 632.4
STD DEV 33.86	STD DEV .1198	STD DEV 148.4	STD DEV .0772	STD DEV 3.529



LINE 360
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

LINE 1010
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239
HORIZONTAL SCALE 1: 62500

BARO PRESSURE
MM HG
MIN 616.8
MAX 634.2
MEAN 624.6
STD DEV 3.884

AIR TEMPERATURE
DEG C
MIN 22.00
MAX 24.00
MEAN 22.59
STD DEV .5765

RESIDUAL MAG
GAMMAS
MIN -680.6
MAX 4037
MEAN 543.1
STD DEV 1433

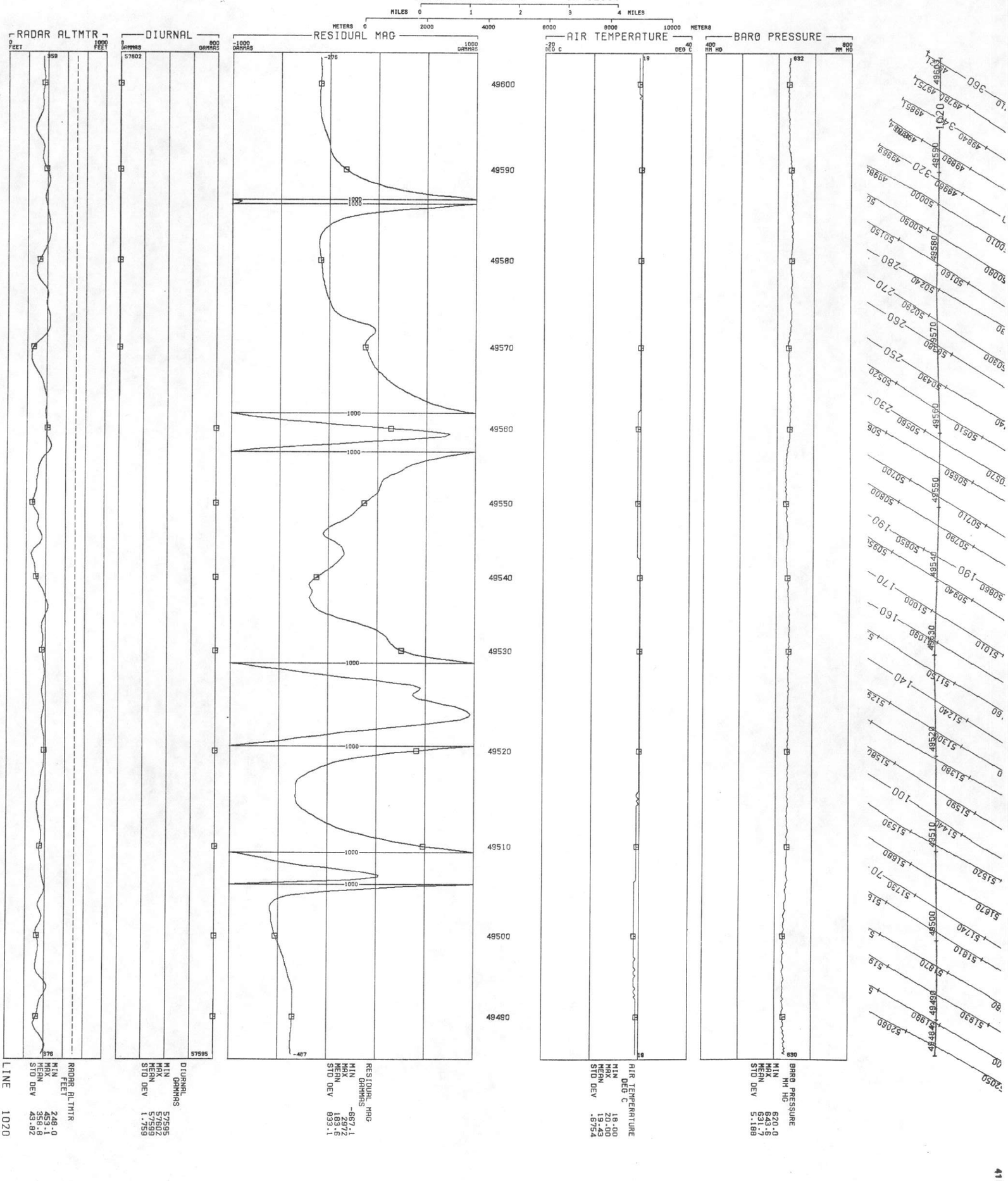
DIURNAL
GAMMAS
MIN 57634
MAX 57635
MEAN 57635
STD DEV .4792

RADAR ALTMTR
FEET
MIN 254.0
MAX 504.1
MEAN 384.4
STD DEV 45.80

LINE 1010

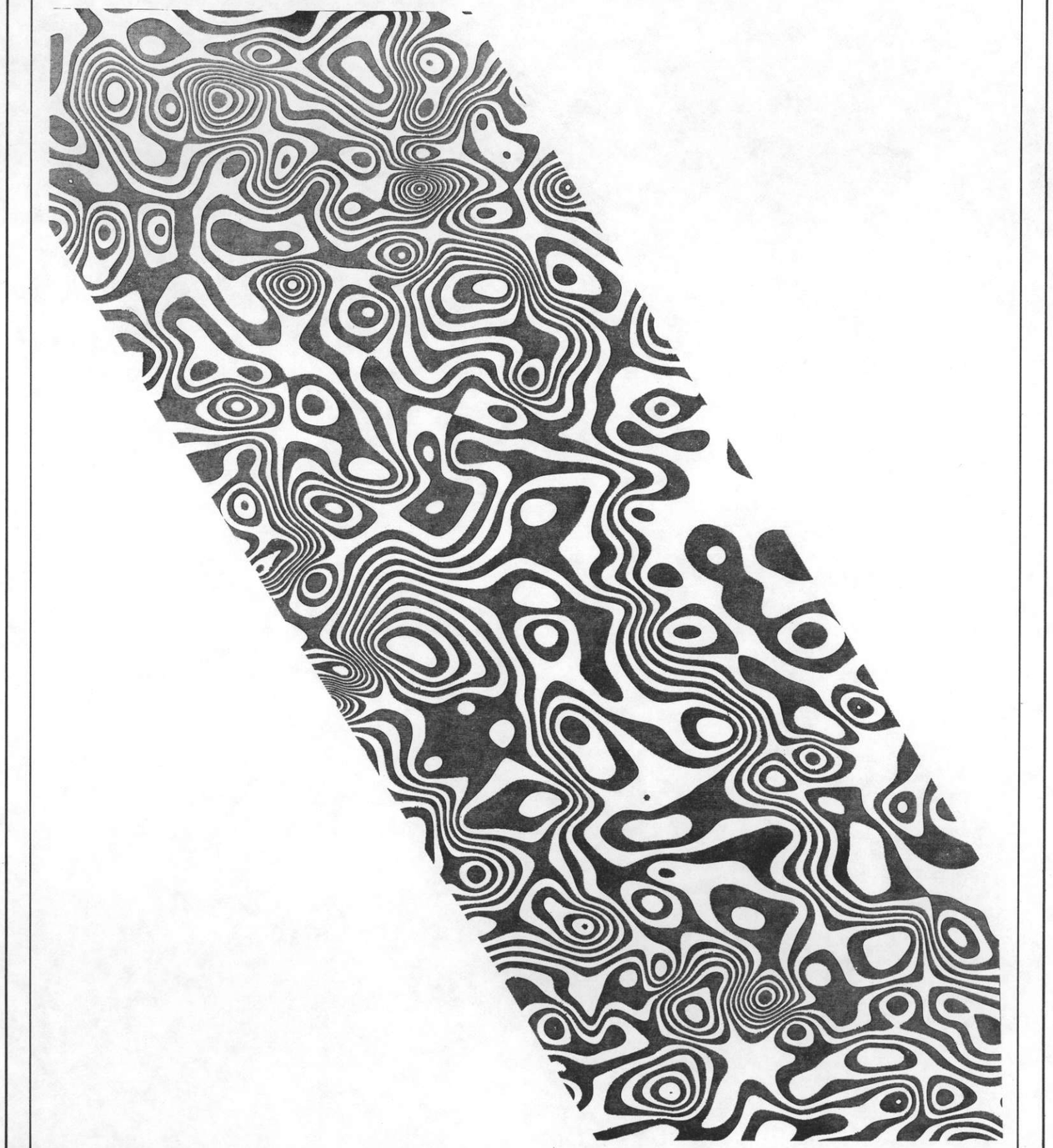
LINE 1020
IDAHO SURVEY - NEMO DETAIL AREA - GEOMETRICS
DATA ACQUIRED 79239

HORIZONTAL SCALE 1: 62500



APPENDIX C – Contour Maps

NEMO



42N

POTASSIUM GAMMA RAY INTENSITY

NEMO DETAIL AREA

U.S. DEPARTMENT OF ENERGY

APPROXIMATE SCALE 1:62,500

COMPTON SCATTER AND ALTITUDE CORRECTED
CONTOUR INTERVAL 0.2%
SHADING ON LOW SIDE 0.1%
FLIGHT LINE SPACING . . . . . 0.25 MILE(S)
FLIGHT ALTITUDE . . . . . 400 FEET MTC
FLOWN AND COMPILED 1979/1980
INSTRUMENT GR 800 2048 CUBIC INCHES DOWN
256 CUBIC INCHES UP
SURVEY FLOWN ROTARY WING BY N49531

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

NEMO

43N

URANIUM GAMMA RAY INTENSITY

NEMO DETAIL AREA

U.S. DEPARTMENT OF ENERGY

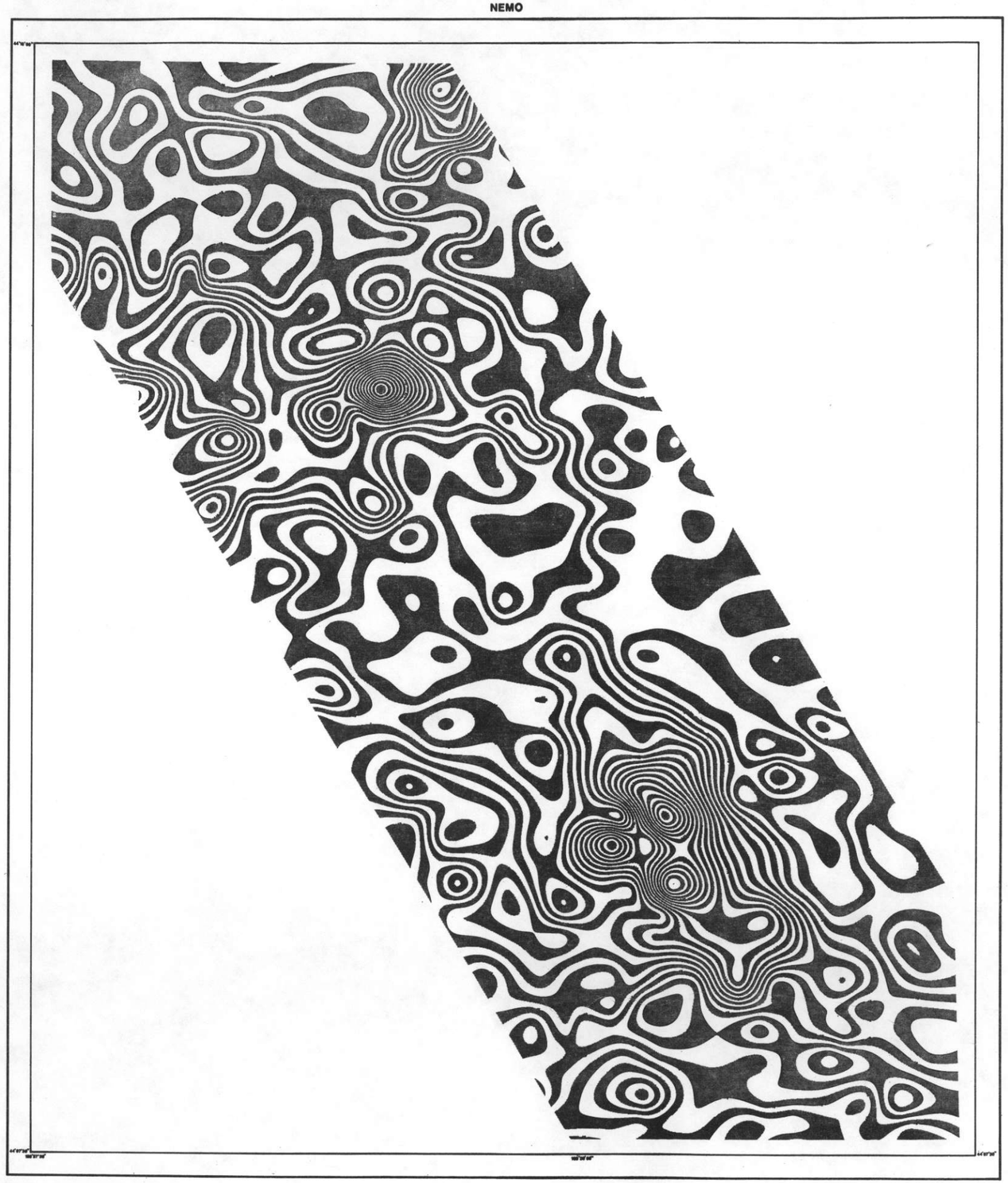
APPROXIMATE SCALE 1:62,500

COMPTON SCATTER AND ALTITUDE CORRECTED
CONTOUR INTERVAL ..... 0.2 PPM
SHADING ON LOW SIDE ..... 0.1 PPM
FLIGHT LINE SPACING ..... 0.25 MILE(S)
FLIGHT ALTITUDE ..... 400 FEET MTC
FLOWN AND COMPILED 1979/1980
INSTRUMENT GR 800 2048 CUBIC INCHES DOWN
256 CUBIC INCHES UP
SURVEY FLOWN ROTARY WING BY N49531

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

NEMO



44N

THORIUM GAMMA RAY INTENSITY

NEMO DETAIL AREA

U.S. DEPARTMENT OF ENERGY

APPROXIMATE SCALE 1:62,500

COMPTON SCATTER AND ALTITUDE CORRECTED
CONTOUR INTERVAL ..... 1.0 PPM
SHADING ON LOW SIDE ..... 0.5 PPM
DATUM ..... 1975 IGRF UPDATED TO 1979
FLIGHT LINE SPACING ..... 0.25 MILES)
FLIGHT ALTITUDE ..... 400 FEET MTC
FLOWN AND COMPILED 1979/1980
INSTRUMENT GR 800 2048 CUBIC INCHES DOWN
256 CUBIC INCHES UP
SURVEY FLOWN ROTARY WING BY N49531

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

NEMO

45N

THORIUM / POTASSIUM RATIO

NEMO DETAIL AREA

U.S. DEPARTMENT OF ENERGY

APPROXIMATE SCALE 1:62,500

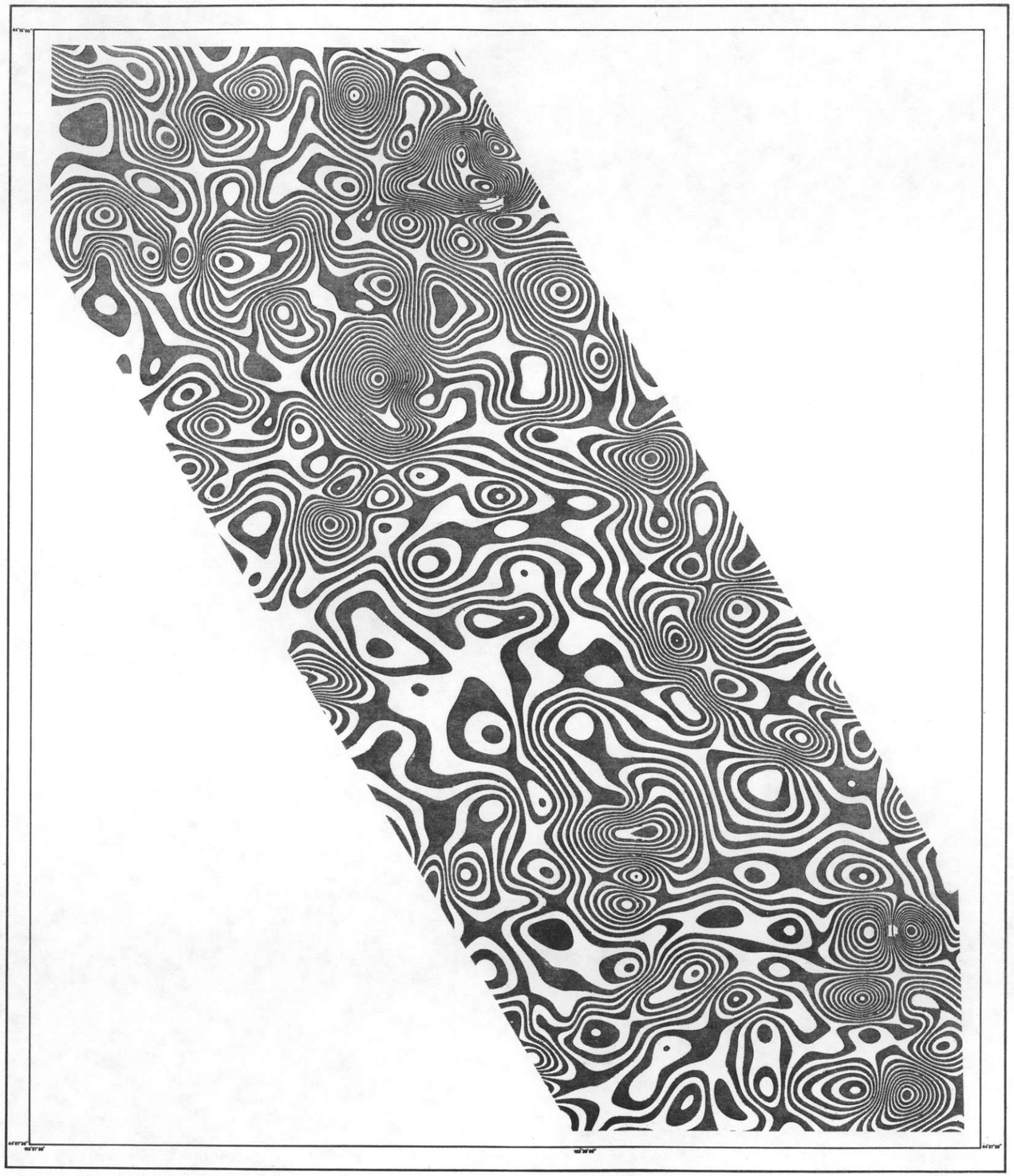
CONTOUR INTERVAL 10.0
SHADING ON LOW SIDE 5.0
ALL VALUES ON MAP MULTIPLIED BY 10
FLIGHT LINE SPACING . . . . . .0.25 MILE(S)
FLIGHT ALTITUDE . . . . . 400 FEET MTC
FLOWN AND COMPILED 1979/1980
INSTRUMENT GR 800 2048 CUBIC INCHES DOWN
256 CUBIC INCHES UP
SURVEY FLOWN ROTARY WING BY N49531

N

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

NEMO



46N

URANIUM / POTASSIUM RATIO

NEMO DETAIL AREA

U.S. DEPARTMENT OF ENERGY

APPROXIMATE SCALE 1:62,500

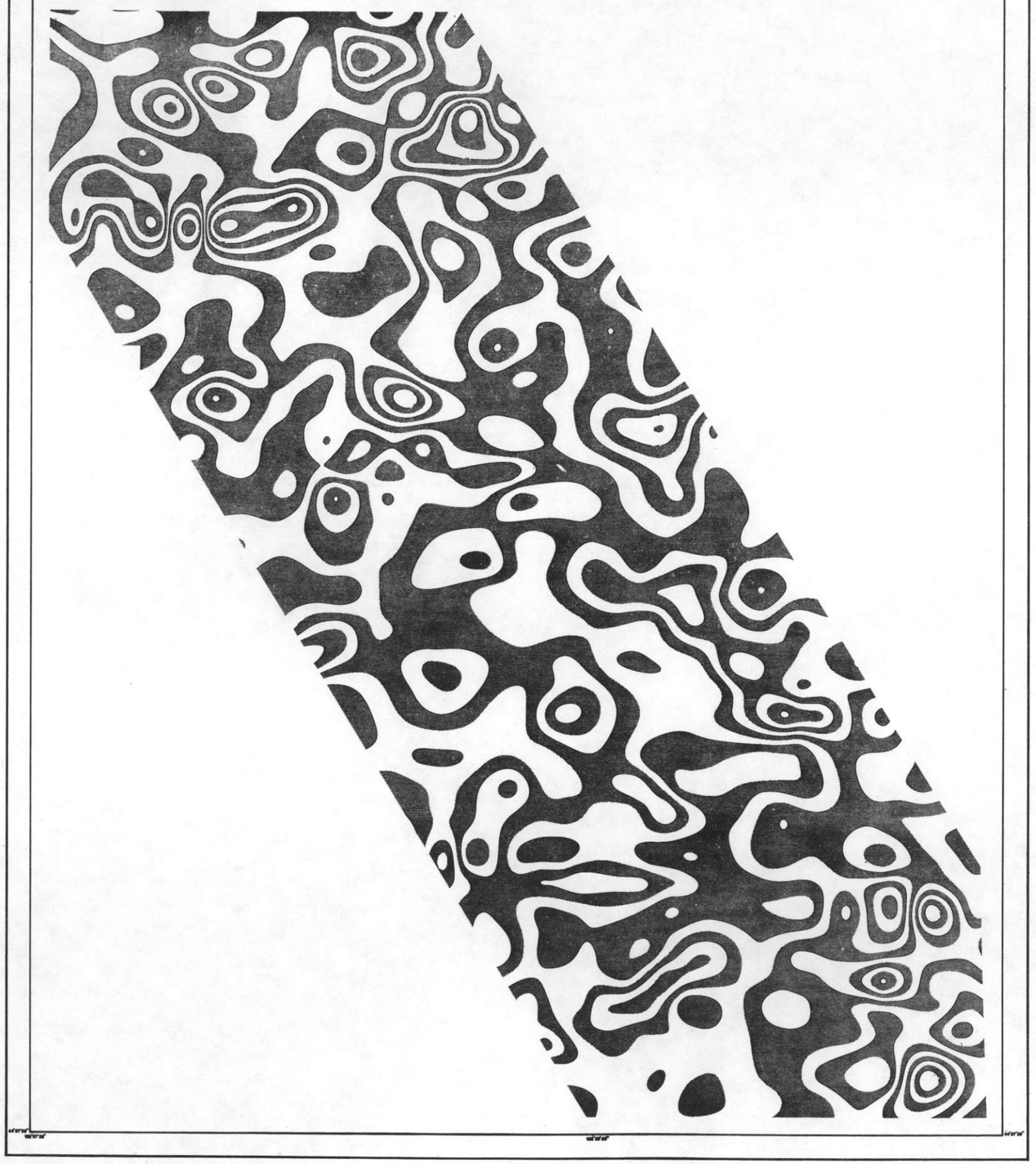
CONTOUR INTERVAL 2.0
SHADING ON LOW SIDE 1.0
ALL VALUES ON MAP MULTIPLIED BY 10
FLIGHT LINE SPACING . . . . . 0.25 MILE(S)
FLIGHT ALTITUDE . . . . . 400 FEET MTC
FLOWN AND COMPILED 1979/1980
INSTRUMENT GR 800 2048 CUBIC INCHES DOWN
256 CUBIC INCHES UP
SURVEY FLOWN ROTARY WING BY N49531

N

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

NEMO



47N

URANIUM / THORIUM RATIO

NEMO DETAIL AREA

U.S. DEPARTMENT OF ENERGY

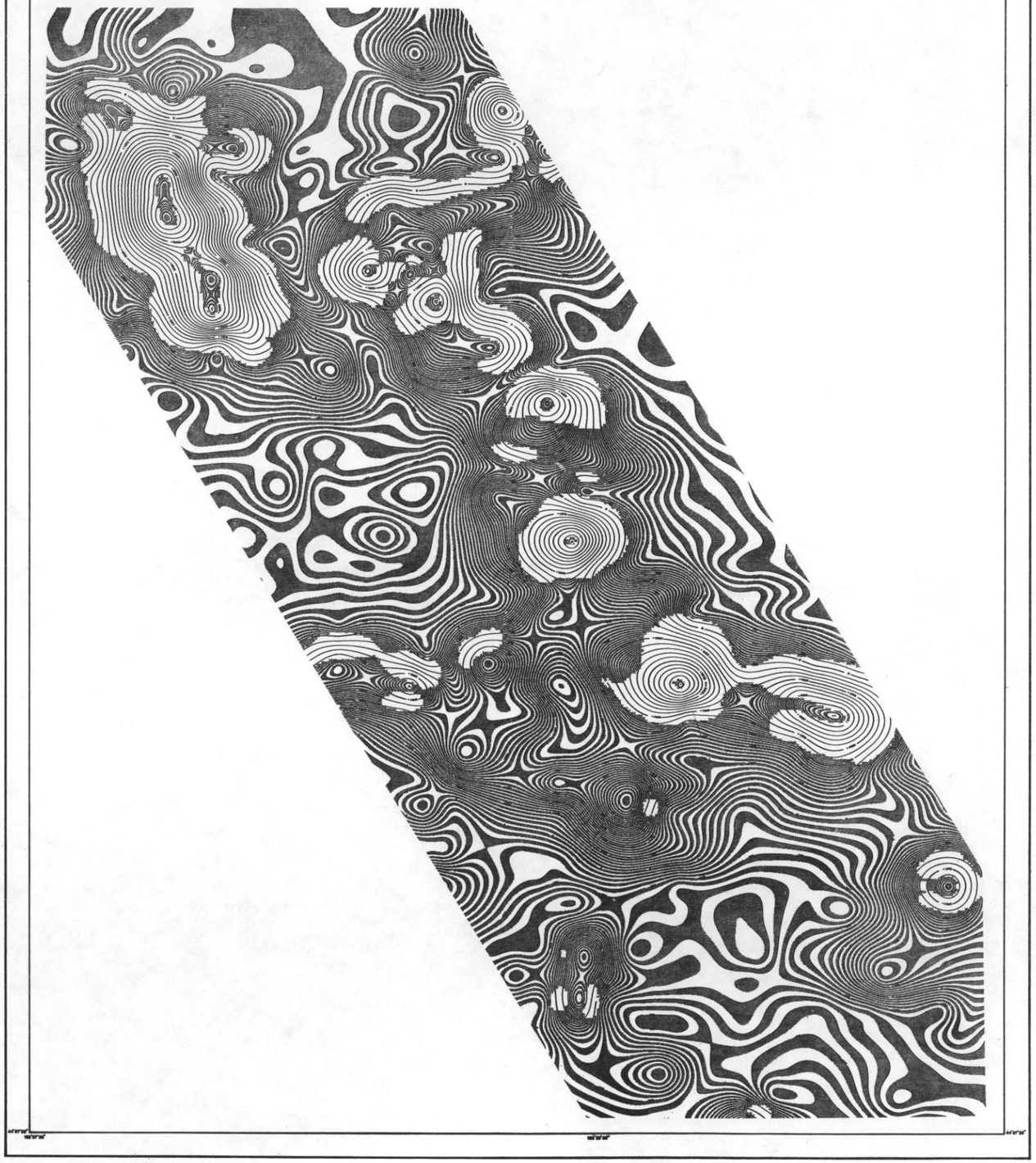
APPROXIMATE SCALE 1:62,500

CONTOUR INTERVAL 1.0
SHADING ON LOW SIDE 0.5
ALL VALUES ON MAP MULTIPLIED BY 10
FLIGHT LINE SPACING . . . . . 0.25 MILE(S)
FLIGHT ALTITUDE . . . . . 400 FEET MTC
FLOWN AND COMPILED 1979/1980
INSTRUMENT GR 800 2048 CUBIC INCHES DOWN
256 CUBIC INCHES UP
SURVEY FLOWN ROTARY WING BY N49531

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

NEMO



48N

RESIDUAL MAGNETIC INTENSITY

NEMO DETAIL AREA

U.S. DEPARTMENT OF ENERGY

APPROXIMATE SCALE 1:62,500

CONTOUR INTERVAL . . . . . 40.0 GAMMAS
SHADING ON LOW SIDE . . . . . 20.0 GAMMAS
DATUM . . . . . 1975 IGRF UPDATED TO 1979
FLIGHT LINE SPACING . . . . . 0.25 MILE(S)
FLIGHT ALTITUDE . . . . . 400 FEET MTC
FLOWN AND COMPILED 1979–1980
INSTRUMENT . . . . . GEOMETRICS G-803 PROTON MAGNETOMETER

SURVEY FLOWN ROTARY WING BY N49531

N

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

APPENDIX D - Histograms

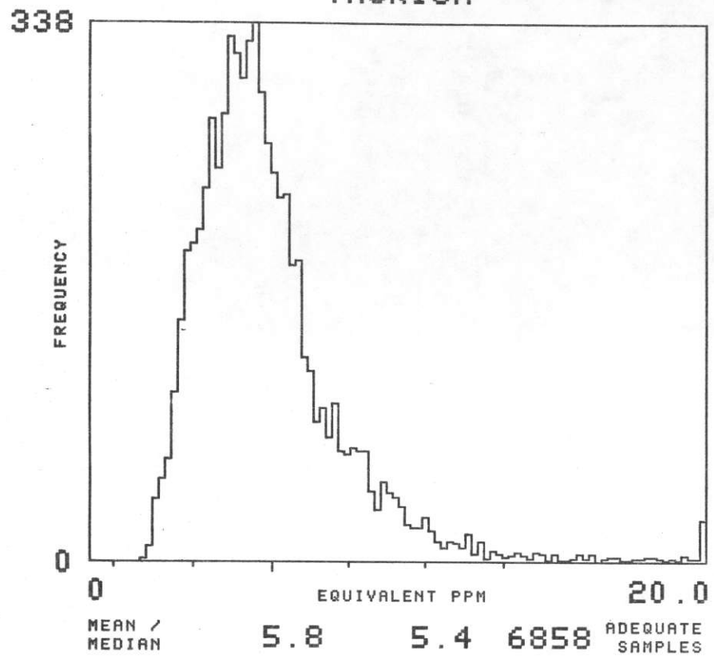
NEMO DETAIL AREA

MAP UNIT :

TOTAL NUMBER OF SAMPLES 6858

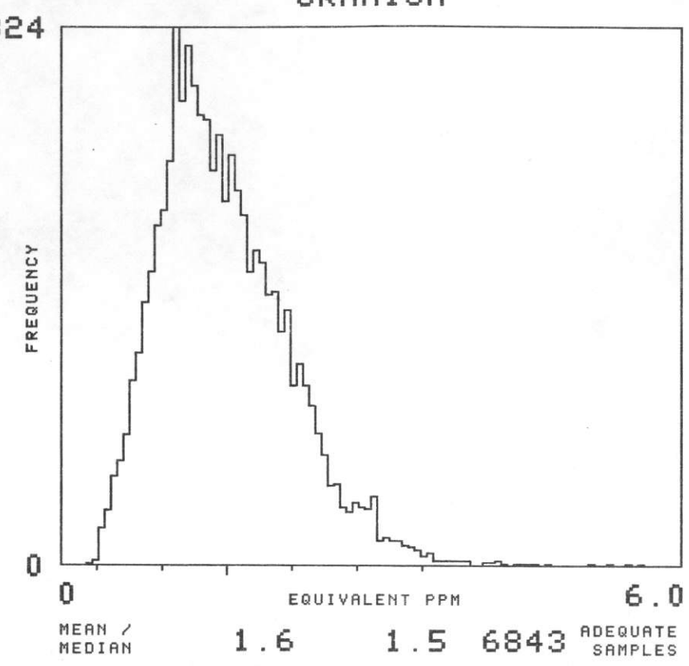
49 N

THORIUM



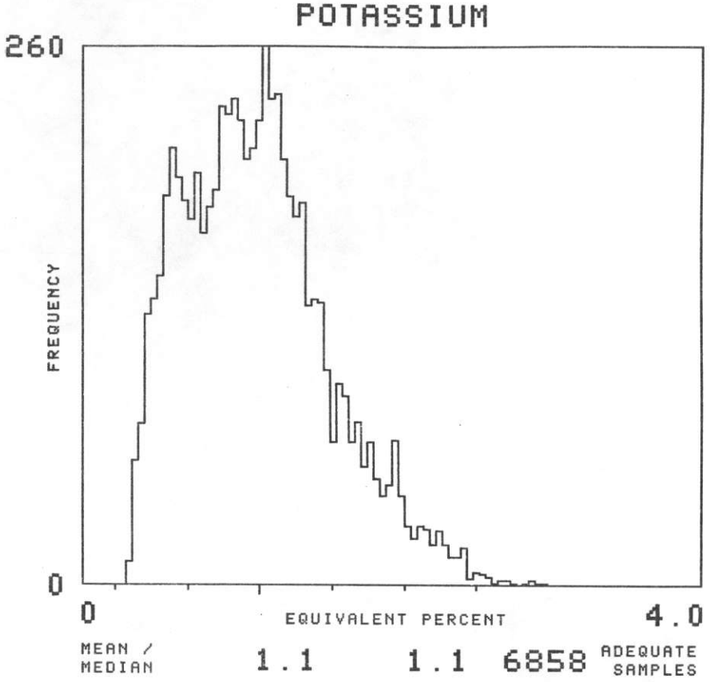
MEAN / MEDIAN 5.8 5.4 6858 ADEQUATE SAMPLES

URANIUM



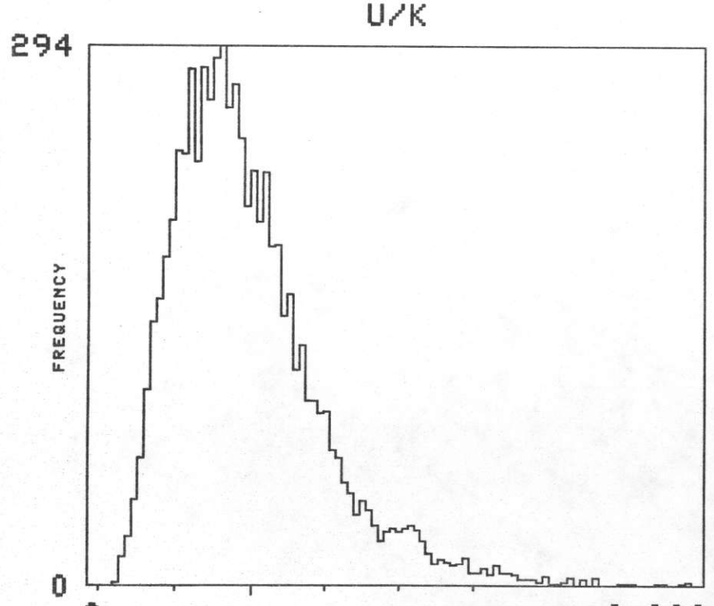
MEAN / MEDIAN 1.6 1.5 6843 ADEQUATE SAMPLES

POTASSIUM



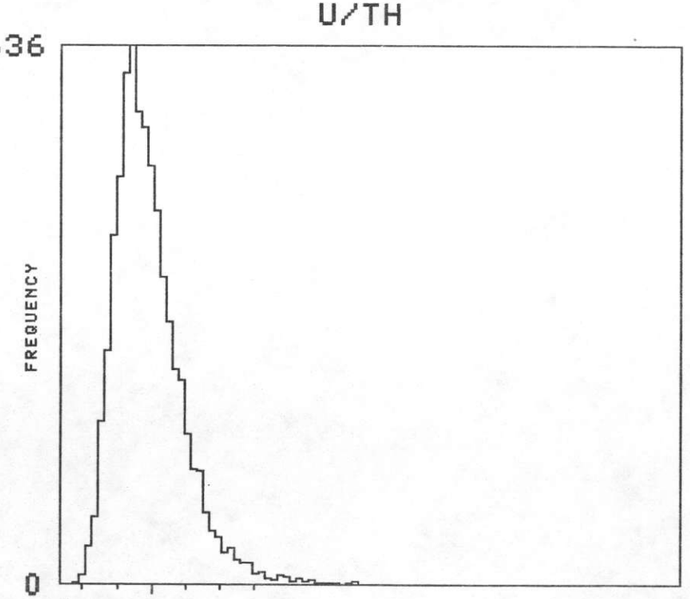
MEAN / MEDIAN 1.1 1.1 6858 ADEQUATE SAMPLES

U/K



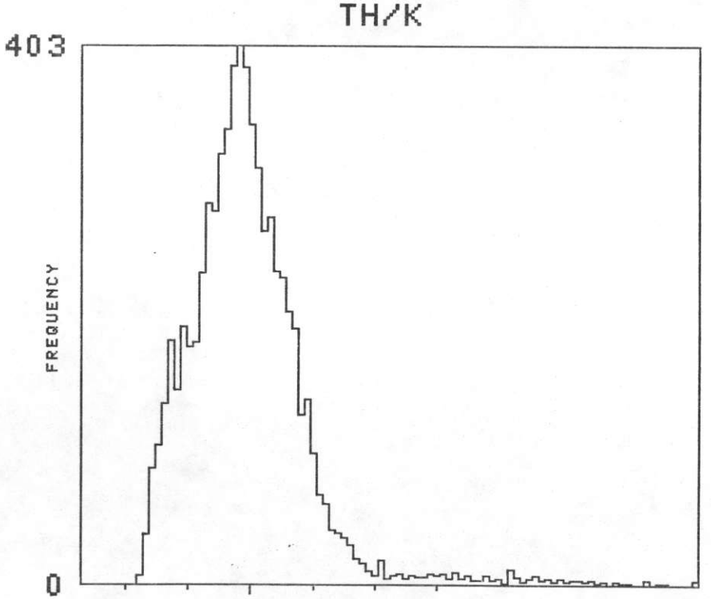
MEAN / MEDIAN 1.571 1.440 6843 ADEQUATE SAMPLES

U/TH



MEAN / MEDIAN 0.294 0.280 6843 ADEQUATE SAMPLES

TH/K



MEAN / MEDIAN 5.474 5.200 6858 ADEQUATE SAMPLES

APPENDIX E - Statistical Tables

NEMO

STATISTICAL SUMMARY TABLE

		-3	-2	-1	0	+1	+2	+3
K40	DIST NORMAL	-.2553	.2138	.6769	1.1430	1.6091	2.0752	2.5413
BI214	DIST NORMAL	-.2837	.3470	.9777	1.6084	2.2391	2.8698	3.5005
TL208	DIST NORMAL	-1.7582	.7725	3.3032	5.8339	8.3646	10.8953	13.4260
U/K	DIST NORMAL	-.6181	.1116	.8413	1.5710	2.3007	3.0304	3.7601
U/TH	DIST NORMAL	-.0398	.0714	.1826	.2938	.4050	.5162	.6274
TH/K	DIST NORMA	-.5564	1.4538	3.4643	5.4742	7.4844	9.4946	11.5048

ANOMALY SUMMARY TABLE

ANOMALY	FLIGHT	COMPUTER MAP UNIT AND NO. ANOMALOUS SAMPLES	PEAK CPS	NUMBER OF SAMPLES WITH A STANDARD DEVIATION OF							
				1	2	3	4	5	6	7	>7
1.	30, 40	9	2.9	5	4	0	0	0	0	0	0
2.	20,80,90,100,110,1010	87	4.0	56	26	3	2	0	0	0	0
3.	80	5	2.9	2	3	0	0	0	0	0	0
4.	130,140	13	3.1	5	8	0	0	0	0	0	0
5.	1010	40	3.7	18	16	6	0	0	0	0	0
6.	270	2	3.4	0	0	2	0	0	0	0	0
7.	1010	25	2.8	19	6	0	0	0	0	0	0

VARIABLES FOR MULTIVARIATE ANALYSIS

VARIABLE NUMBER	RADIOMETRIC WINDOW	CLOSED INTERVALS IN STANDARD DEVIATIONS	NUMBER OF SAMPLES IN SURVEY
1	K_{40}	$-\infty \leq x < -1.0$	1234
2	K_{40}	$-1.0 \leq x \leq 1.0$	4563
3	K_{40}	$1.0 < x \leq \infty$	1046
4	Bi_{214}	$-\infty \leq x < -3.0$	0
5	Bi_{214}	$-3.0 \leq x < -1.0$	993
6	Bi_{214}	$-1.0 \leq x \leq 1.0$	4790
7	Bi_{214}	$1.0 < x \leq 3.0$	1007
8	Bi_{214}	$3.0 < x \leq \infty$	53
9	Tl_{208}	$-\infty \leq x < 1.0$	624
10	Tl_{208}	$-1.0 \leq x \leq 1.0$	5388
11	Tl_{208}	$1.0 < x \leq \infty$	831

PRINCIPLE COMPONENT RESULTS

COMPONENT	EIGENVALUE	PERCENT TOTAL VARIANCE
1	.843	28.087
2	.533	17.759
3	.501	16.673
4	.292	9.725
5	.252	8.384
6	.218	7.247
7	.133	4.421
8	.123	4.113
9	.073	2.439
10	.035	1.153
11	.000	.000

COVARIANCE MATRIX

	1	2	3	4	5	6	7	8	9	10	11
1.	.3102290										
2.	.0000000	.1942032									
3.	.0000000	.0000000	.4967289								
4.	.0000000	.0000000	.0000000	.0000000							
5.	.1250713	.0227410	-.0131648	.0000000	.2584130						
6.	.0631623	.0290214	.0030473	.0000000	.0000000	.2171891					
7.	-.0082801	.0071680	.0969193	.0000000	.0000000	.0000000	.4096320				
8.	.0000000	.0017367	.0006401	.0000000	.0000000	.0000000	.0000000	.1146167			
9.	.1369001	.0081958	.0000000	.0000000	.0616175	.0290910	-.0021257	.0000000	.1267788		
10.	.0893583	.0772029	.0354390	.0000000	.0645441	.0570643	.0021689	-.0005286	.0000000	.2097872	
11.	-.0009340	.0626251	.0428109	.0000000	-.0006297	.0370428	.2263399	.1295272	.0000000	.0000000	.6646017

MATRIX OF EIGENVECTORS

EIGENVECTOR

VARIABLE	1	2	3	4	5	6	7	8	9	10	11
1.	-.00451	.67865	.00645	.15992	-.24106	.24283	-.31698	-.25745	.07994	.47285	-.00000
2.	-.09145	.13726	.04921	-.34282	.48866	-.30020	-.52325	.42702	-.13164	.22465	-.00000
3.	-.24074	.01159	-.91810	-.22076	-.20465	-.03954	.00620	.07648	.01259	.02793	.00000
4.	-.00000	-.00000	-.00000	-.00000	-.00001	-.00000	-.00000	-.00000	-.00000	-.00000	-1.00000
5.	-.00208	.47609	.03747	.20182	-.09900	-.57365	.52535	.33958	-.00799	.03042	-.00000
6.	-.05751	.24057	.02428	-.27851	.28444	.67260	.45307	.33741	-.07699	.04807	.00000
7.	-.48386	-.06150	-.14854	.71065	.43140	.09415	-.01650	-.01944	-.19651	.02845	.00000
8.	-.14633	-.00558	.11061	-.18923	-.22734	-.05661	.07617	-.20093	-.90744	.07736	.00000
9.	-.00299	.32113	.01235	.13261	-.22205	.16305	-.35349	.29163	-.14098	-.75721	.00000
10.	-.03218	.35867	-.08508	-.25827	.47301	-.16584	.11437	-.62455	.05440	-.37286	-.00000
11.	-.82084	-.01846	.33308	-.25447	-.24428	-.04146	.01809	-.02239	.29193	-.05245	-.00000

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