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AERIAL GAMMA RAY AND MAGNETIC SURVEY

RATON BASIN PROJECT

SANTA FE QUADRANGLE OF NEW MEXICO

FINAL REPORT
VOLUME II

SURVEY AND
COMPILATION BY:

EG&G GEOMETRICS
Sunnyvale, California
December, 1979

Work Performed Under
Bendix Field Engineering Corporation
Grand Junction Operations, Grand Junction, Colorado
Subcontract 78-182-L
and
Bendix Contract EY-76-C-13-1664

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

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ABSTRACT

The Santa Fe quadrangle in central New Mexico lies principally within the Southern Rocky Mountains and Great Plains Provinces. The west is dominated by the Sangre de Cristo Mountains. The eastern and southern regions contain portions of the Sierra Grande Arch and the Las Vegas and Tucumcari Basins. These structures primarily contain Permian, Triassic, Cretaceous, and Tertiary sediments. Many areas of the quadrangle are covered by Cretaceous through Quaternary igneous rocks of a variety of types.

Magnetic data reflect both deep and shallow sources. The basins show as regions of low frequency/low amplitude wavelengths except where significant amounts of igneous rocks are exposed.

The Santa Fe quadrangle has been unproductive in terms of uranium. All known uranium occurrences to date have proven uneconomic.

A total of 219 uranium anomalies are valid according to the criteria set forth in Volume I. Two groups of anomalies in the Sangre de Cristo Mountains appear to be most significant in terms of their peak count rates.

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LIST OF FIGURES

INTRODUCTION

General

The Santa Fe quadrangle covers a 7,800 square mile area in north central New Mexico (see Figure 1).

The geologic map of the Santa Fe quadrangle used for this report as a base map was provided by Bendix Field Engineering Corporation (produced by AAA Engineering and Drafting, and modified by Quahada Engineering). Rock unit descriptions were taken directly from the accompanying map legend (Appendix A). Supplementary information was found in Mallory (1972), and Lugn (1975). The 1:250,000 scale topographic map of the Santa Fe quadrangle (1962 version), along with more recently revised larger scale topographic maps and flight recovery film, were used to delineate topographic and cultural features considered important to the interpretation process.

Physiography

The Santa Fe quadrangle covers a region which contains portions of the Southern Great Plains and the Southern Rocky Mountains Physiographic Provinces. The Great Plains covers 80% of the quadrangle. The Rockies cover 20% of the quadrangle in the NW quadrant. The most westerly portion of the Rockies here are transitional to the Rio Grande River Valley area. The quadrangle is dominated by semi-arid to arid climate. High desert and rangeland share the lower elevations of the quadrangle. Mountainous areas, primarily in the NW quadrant, are covered with light forest or scrub.

Elevations range from 4,000 feet in the bottom of the Canadian River Canyon at the central eastern edge of the quadrangle, to 13,101 feet at the top of Truchas Peak in the Sangre de Cristo Mountains. Elevations in the plains areas primarily range from 5,000 to 6,000 feet. Peak elevations in the Sangre de Cristo Range and related mountain ranges commonly exceed 11,000 feet.

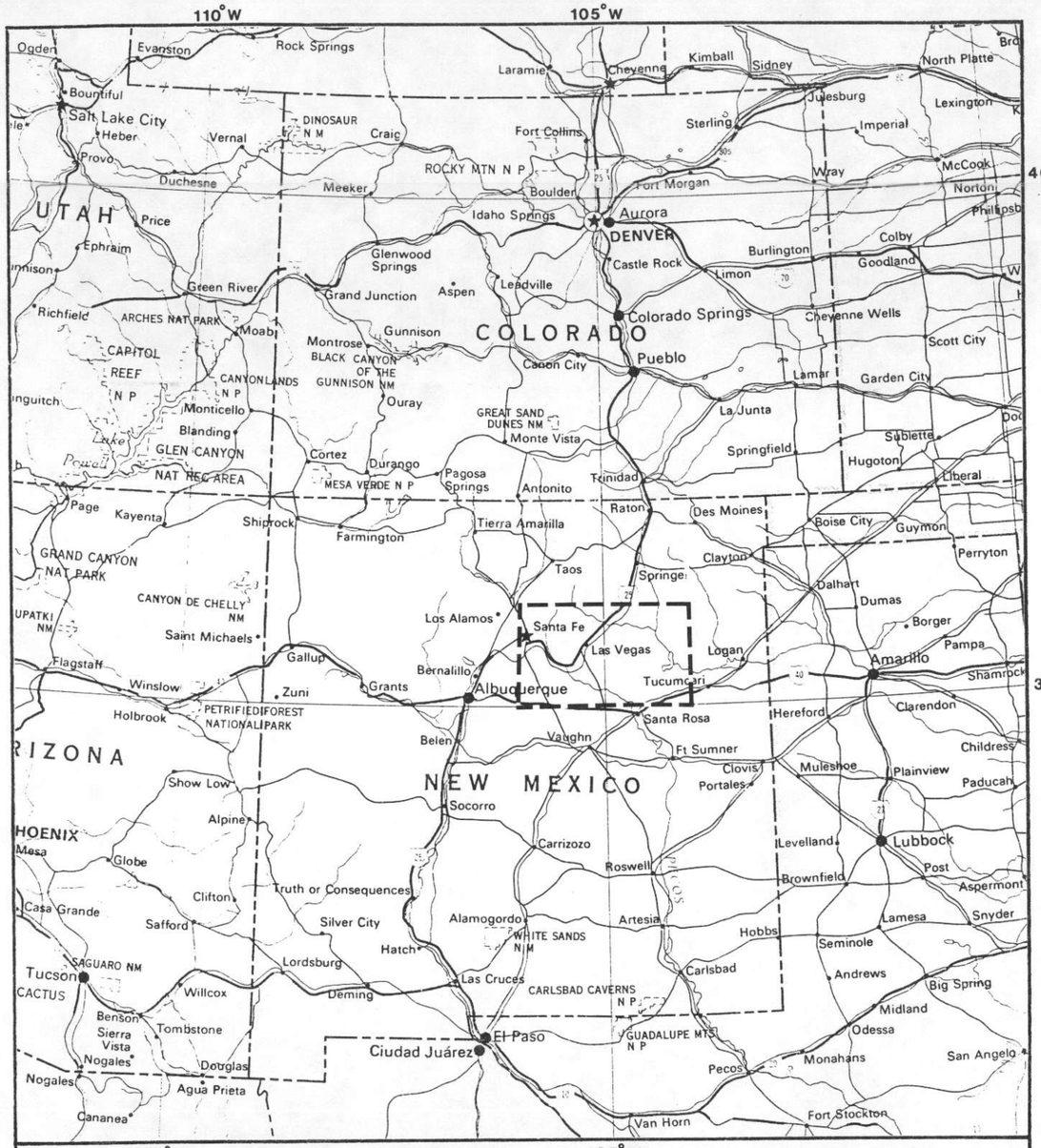
The area is sparsely populated. The largest population centers are in Santa Fe and Las Vegas. Smaller towns and ranches are scattered throughout the quadrangle.

GEOLOGY

Structure

The basic structural configuration of the Santa Fe quadrangle is shown in Figure 2.

The Santa Fe quadrangle contains portions of five structures. The northwestern portion is occupied primarily by the southernmost portion of the Sangre de Cristo Uplift (occupying 20% of the quadrangle).



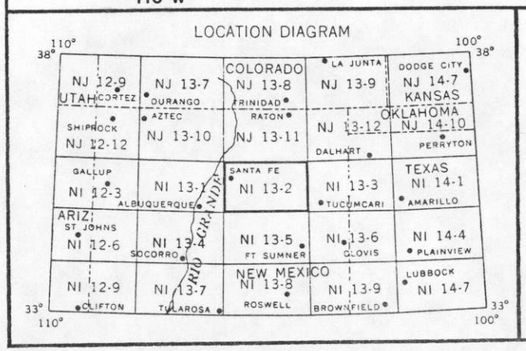
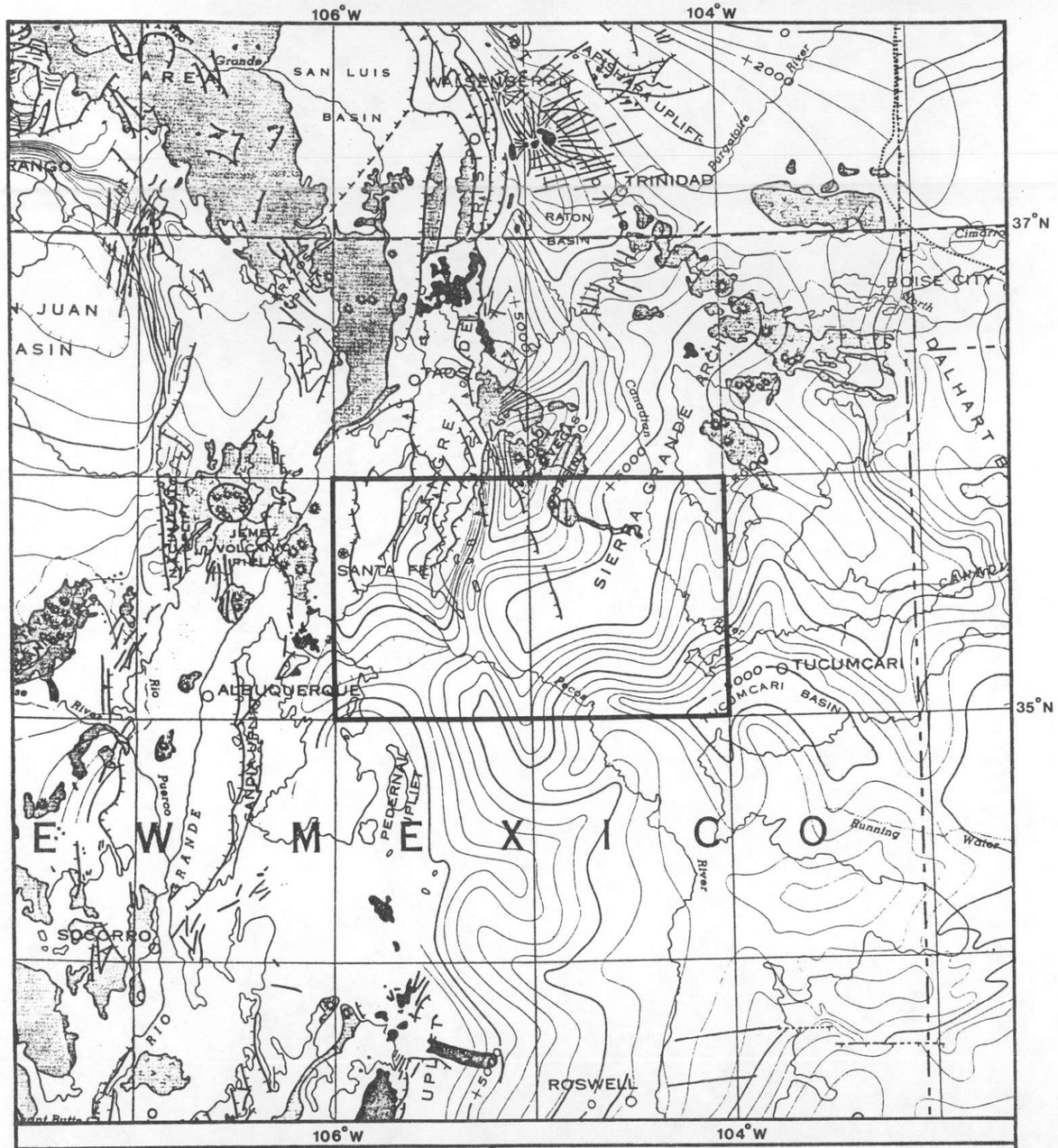


FIGURE 1

LOCATION MAP
SANTA FE QUADRANGLE

Scale
100 50 0 100 MILES



After
USGS and AAPG
Tectonic Map of the United States
by
Cohee and others (1962)

FIGURE 2

TECTONIC STRUCTURE MAP
SANTA FE QUADRANGLE

Scale 1:2,500,000

25 0 25 50 75 MILES

Precambrian and Paleozoic units are the dominant rock types of the uplifted areas. The thickness of sedimentary cover increases to the south and east of the uplift, approaching 8,000 feet in the Las Vegas Basin (covering 15% of the quadrangle in the central northern sector) and greater than 2,000 feet in the Glorieta Mesa Platform area (dominating the southwestern quadrant). In the eastern half of the quadrangle, the Sierra Grande Arch strikes southwesterly from the northeastern corner of the quadrangle. Sedimentary cover thins to less than 3,000 feet over the axis of the arch. Sediment thickness increases toward the southeastern corner of the quadrangle to more than 8,000 feet in the Tucumcari Basin. The Sierra Grande Arch and the Tucumcari Basin occupy approximately 25% and 15% of the quadrangle respectively. Most of the sedimentary deposits in the structures of the Great Plains area are Mesozoic and Cenozoic.

Dip-slip faults border and transect the Sangre de Cristo Uplift. A thrust fault has been mapped in the mountains near the northern edge of the quadrangle. These faults are probably the surficial expression of major reverse faulting which occurred in the area during the Laramide Orogenic Period. These faults offset units of Late Mesozoic age.

Surface Geology

Exposures in the Sangre de Cristo Uplift are nearly evenly divided between Precambrian and Paleozoic rocks. Mesozoic rocks cover most of the surface to the east and south. In the Glorieta Mesa area, exposures (as mapped) range from Permian to Triassic age. Undivided Triassic age rocks dominate the surface of the Sierra Grande Arch (as mapped). In the Las Vegas Basin area to the north of the arch (east of the Sangre de Cristo Mountains), Cretaceous rocks dominate the surface exposures (primarily the Dakota Sandstone). Jurassic rocks are exposed only in canyon walls within the basin and in the butte-mesa area between the basin and the Sierra Grande Arch to the southeast (with the Dakota as a cap rock unit). A nearly identical series of rock units are exposed in the Tucumcari Basin area southeast of the arch, but Triassic units dominate the surface exposures there. Cretaceous rocks are exposed only as cap rock units at the tops of buttes and mesas. Tertiary rock units are exposed atop the Cretaceous on some of the mesas (primarily the Mio-Pliocene Ogallala Formation), but these rocks account for only 1% of the rocks exposed at the surface. Mapped Quaternary surficial deposits cover approximately 2% of the surface (though in actuality this percentage is probably somewhat higher). Miocene through Pleistocene interbedded volcanic and sedimentary rocks (Santa Fe Formation and similar rock units) have scattered surficial exposures throughout the quadrangle, but account for only 5% of the quadrangle surface.

Uranium

Several small uranium prospects (claims) are present within the Sante Fe quadrangle (see volume 1 Fig. 3.)

Apparently none of the mineralized areas were determined to have sufficiently high concentrations of uranium to be economic at the time of their discovery. At the time of this report, no references indicating current uranium mining or prospecting were found.

INTERPRETATION OF GEOPHYSICAL DATA

Radiometric Data

A total of 219 uranium (Bi214) anomalies meet the minimum statistical requirements set forth in the data interpretaton section of Volume I. These are displayed, along with other anomalous sample points (which do not satisfy the minimum grouping criteria to define an anomaly), and other applicable cultural and geographical data, on the Uranium Anomaly/ Interpretation Map (Figure 3). The anomalies are summarized in Appendix E. The potassium, uranium, thorium, and ratio pseudo-contour maps, which reflect radiometric responses for the entire quadrangle, are contained in Appendix F.

The average uranium count rate within the Santa Fe quadrangle is 20.9 cps (2.1 ppmeU). This is about 5.0 cps lower than the Raton quadrangle bordering to the north. The average count rates for the potassium and thorium windows are 118.4 cps and 52.2 cps respectively. Areas with uranium count rates higher than 30.0 cps (approximately 6.0 standard deviations above the quadrangle mean) are small and scattered throughout the quadrangle. The largest of these areas is in the Sangre de Cristo Mountains at the extreme NW corner of the quadrangle, in an area mapped as QTS (Santa Fe Formation - Quaternary + Tertiary) and PCI (Precambrian igneous - undivided). The high uranium count rate in this area (and other high uranium count rate areas in the Sangre de Cristo Mountains) are associated with higher than average thorium and potassium values.

Computer map units QTI, TKI, KMV, and PENN all have average uranium window count rates of 30.0 cps or more, but only QTI (Quaternary + Tertiary basic dikes) and PENN (Pennsylvanian - undivided) have enough samples to provide usable statistics. Peak count rates for uranium are highest in map unit QTS (Santa Fe Formation) at 71.0 cps (7.1 ppmeU). Precambrian undivided (PC) has the highest peak potassium and thorium values at 402.0 cps (4.5 equivalent percent) and 145.5 cps (22.7 ppmeT) respectively. Map units PCI (Precambrian igneous), PM (Pennsylvanian - Madera Formation), and JTR (Jurassic + Triassic undivided) also have relatively high peak count rates in all windows.

Anomalies are scattered throughout the quadrangle. The most prominent anomalies in terms of peak count rates occur in anomaly 29 in map unit PC (Precambrian undivided) and in anomaly 18 in map unit QTS (Santa Fe Formation) with peak count rates of 57.4 cps and 69.4 cps respectively.

Each of these two anomalies is the most significant member of two major groups of anomalies which lie over the Sangre de Cristo Mountains along the northern border of the quadrangle. The first group, containing anomalies 11-17, 26-31, and 203-206, lies primarily in Precambrian and Paleozoic rocks in a region transitional between the higher peaks of the Sangre de Cristo Mountains and the Las Vegas Basin area. Peak count rates of the anomalies range from 30.0 cps upward. The second group, in the extreme NW corner of the quadrangle, is formed by anomalies 1-8, 18-24, 36, 37, 39-41, and 217-219. The map units in this area are primarily PCI (Precambrian igneous rocks) and QTS (Santa Fe Formation). Peak count rates in this group also range upward from approximately 30.0 cps. Two claims for uranium are known to exist in this area (in association with anomalies 1, 2, and 41).

Map units TRC and TRS (Triassic Chinle and Spearfish Formations) have the most anomalous samples in the quadrangle, though they are relatively insignificant in terms of peak count rates. Anomalies in these two units are largely scattered throughout the southern and eastern regions of the quadrangle, but form loosely associated groups in some places. The most prominent of these gorups is formed by anomalies 60, 61, 64-67, 68-71, and 81-84 in the Conchas Lake area near the eastern edge of the quadrangle. Peak count rates in this groups range as high as 42.5 cps in anomaly 66. Anomaly 124 in the Triassic Spearfish Formations (peak count rate - 30.5 cps) appears to overlie the Neafus Ranch Uranium claim.

Every sample shown in Figure 3 is considered significant with respect to the average values of the associated computer map units. However, on the basis of this study, the two groups of anomalies in the Sangre de Cristo Mountains are considered the most significant. These two areas may merit a closer look if development has not occurred there already.

Magnetic Data

The magnetic field pseudo-contour map appears in Appendix F. The quadrangle is primarily a mixture of thick Mesozoic sedimentary deposits, Precambrian and Paleozoic units, and Cenozoic igneous rocks. The thick sedimentary sequence in the eastern half of the quadrangle appears to be well expressed by low frequency and amplitude wavelengths. Areas mapped as Precambrian material show higher frequency and amplitude wavelengths, but the boundary between the two regions is indistinct. Mapped surficial faulting is not clearly expressed. Some high gradient lineations may correspond to major structural faults, but an overprint of higher frequency and amplitude wavelengths, probably from Cenozoic igneous activity, appears to mask much of the deep structure which otherwise might be better expressed.

SANTA FE

SF

URANIUM ANOMALY/ INTERPRETATION MAP

SANTA FE QUADRANGLE

U.S. DEPARTMENT OF ENERGY

APPROXIMATE SCALE 1:500,000

EXPLANATION

□ – CITY OR TOWN

◇ – 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.

■ – URANIUM MINE, CLAIM OR PROSPECT

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

Figure 3 - Uranium Anomaly/Interpretation Map - Santa Fe Quadrangle

BIBLIOGRAPHY

Butler, A.P., Jr., Finch, W.I., and Twenhofel, W.S., 1962, Epigenetic Uranium Deposits in the United States; U.S. Geological Survey Mineral Resources Map MR-21 (with text), scale 1:3,000,000.

Cohee, G.V., 1962, Tectonic Map of the United States; U.S. Geological Survey and American Association of Petroleum Geologists, special map (12,500,0000.

Fairbridge, R.W., (principal editor), 1975, Encyclopedia of World Regional Geology, Part 1: Western Hemisphere: Halsted Press, Stroudsberg, PA., 704 p.

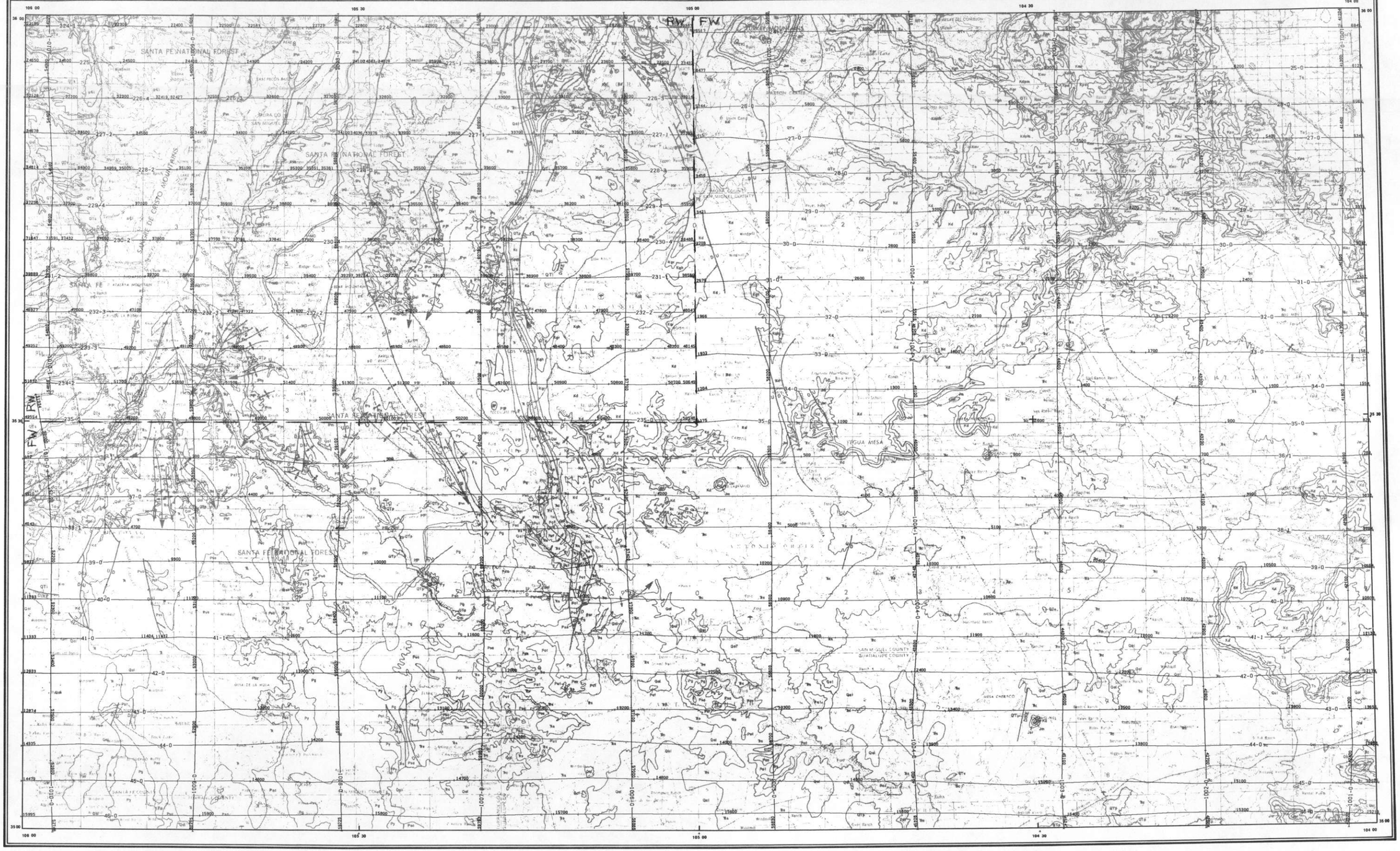
Mallory, W.W., ed., 1972, Geologic Atlas of the Rocky Mountain Region; Rocky Mountain Association of Geologists, Hirshfield Press, Denver.

Robertson, J.M., 1976, Mining Districts of Northeastern New Mexico: in Guidebook of Vermejo Park, Northeastern New Mexico, New Mexico Geology Society 27th Field Conference, p. 257-262.

United States Geological Survey and American Association of Petroleum Geologists, 1962, Tectonic Map of the United States: U.S. Geological Survey Map, Scale 1:2,500,000.

APPENDIX A - Flight Path And Geologic Map

SANTA FE



SCALE 1:500,000

MILES 0 5 10 15 MILES

KILOMETRES 0 5 10 15 20 25 30 KILOMETRES

FIDUCIAL NUMBER 123400 — 053-0 — 123600 LINE NUMBER

FLIGHT LINE SPACING ..... 3.0 MILE(S)

FLIGHT ALTITUDE ..... 400 FEET AMT

FLOWN AND COMPILED 1978–1979

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

N

LOCATION DIAGRAM

NJ 12-9	NJ 13-7	COLORADO NJ 13-8	LA JUNTA NJ 13-9	DODGE CITY NJ 14-7
SHIPROCK NJ 12-12	NJ 13-10	NJ 13-11	NJ 13-12	KANSAS OKLAHOMA NJ 14-10
ALBUQUERQUE NJ 13-3	NJ 13-1	SANTA FE NJ 13-2	NJ 13-3	TEXAS NJ 14-1
ARIZ. NJ 12-6	NJ 13-4	NJ 13-5	NJ 13-6	NJ 14-4
NJ 12-9	NJ 13-7	NEW MEXICO NJ 13-8	NJ 13-9	NJ 14-7

FLIGHT PATH RECOVERY

RATON BASIN PROJECT

U. S. DEPARTMENT OF ENERGY

SANTA FE QUADRANGLE
GEOLOGIC MAP EXPLANATION
(after AAA Engineering, 1979)

CENOZOIC

Qal — ALLUVIUM
Gravel, sand, silt, clay, landslide and boison deposits
RECENT → QUATERNARY

QTp — PEDIMENT AND TERRACE DEPOSITS
Sand, gravel and caliche
PLEISTOCENE-PLIOCENE → QUATERNARY-TERTIARY

QTv — Basalt and basaltic andesite flows and volcanic vents
QUATERNARY-TERTIARY

QTs — SANTA FE GROUP
Sand, gravel, conglomerate, tuff and interbedded basalt and rhyolite flows
PLEISTOCENE-MIOCENE → QUATERNARY-TERTIARY

QTi — INTRUSIVES
Basic dikes
QUATERNARY-TERTIARY

To — OGALLALA FORMATION
Sandy clay, sandstone, caliche and conglomerate
PLIOCENE-MIOCENE → TERTIARY

MIOCENE-OLIGIOCENE → TERTIARY

Tes — ESPINASO VOLCANICS
Gravel, sand and clay

Tg — GALISTEO FORMATION
Conglomerate, sandstone, siltstone, mudstone and minor limestone
OLIGIOCENE-EOCENE → TERTIARY

TKi — INTRUSIVE ROCKS OF LATE CRETACEOUS TO MIOCENE AGE
Generally porphyritic intermediate to felsic stocks, laccoliths, dikes or sills.
TERTIARY-CRETACEOUS

MESOZOIC

Kmv — MESAVERDE GROUP
Sandstone and shale

Kpn — UNDIVIDED PIERRE SHALE AND UPPER PART OF NIOBRARA FORMATION
Shale

Km — MANCOS SHALE
Dark gray shale

Kc — CARLILE SHALE
Dark gray shale

Kgh — GREENHORN LIMESTONE
Dark gray fossiliferous limestone

Kgg — UNDIVIDED GREENHORN LIMESTONE AND GRANEROS SHALE
Limestone and shale

Kgr — GRANEROS SHALE
Dark gray shale, limestone and bentonite

Kgsd — UNDIVIDED GRANEROS SHALE AND DAKOTA SANDSTONE
Shale, limestone and sandstone

Kd — DAKOTA SANDSTONE
Sandstone, shale and local conglomerate at base

Kdpm — UNDIVIDED DAKOTA SANDSTONE, PAJARITO SHALE AND MESA RICA SANDSTONE
Sandstone, shale and conglomerate

Kpa — PAJARITO SHALE
Shale and sandstone

Kmr — MESA RICA SANDSTONE
Cross-bedded sandstone and local conglomerate at base

CRETACEOUS

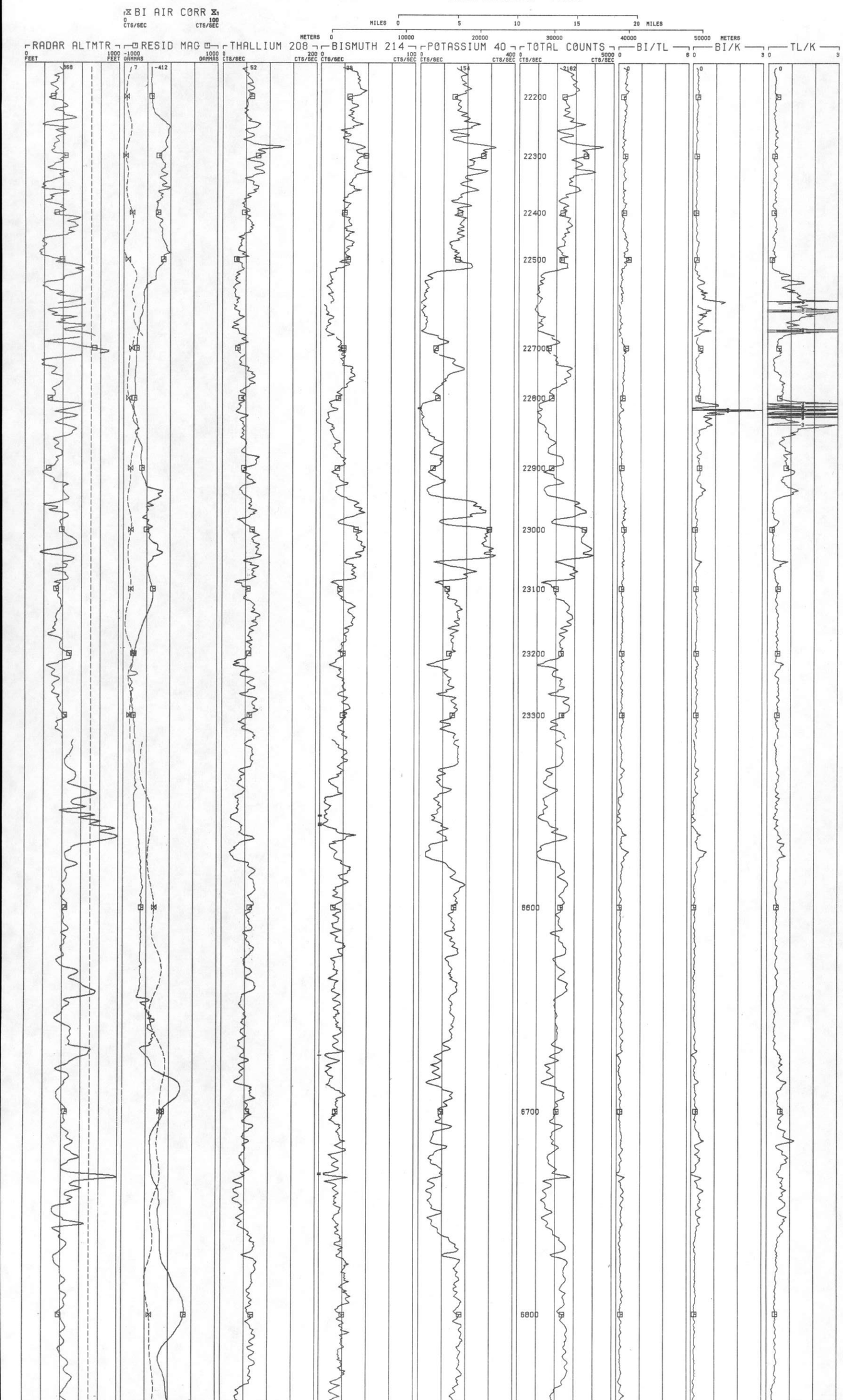
KJ — UNDIVIDED CRETACEOUS AND JURASSIC ROCKS
Sandstone, shale, siltstone and limestone
CRETACEOUS-JURASSIC

SANTA FE QUADRANGLE
GEOLOGIC MAP EXPLANATION (cont'd)
(after AAA Engineering, 1979)

MESOZOIC	J	UNDIVIDED JURASSIC ROCKS Sandstone, shale, siltstone and limestone.	JURASSIC
	Jm	MORRISON FORMATION Variegated shale, sandstone and limestone pellet conglomerate.	
	Jsr	SAN RAFAEL GROUP Sandstone, siltstone, conglomerate and limestone.	
	JTR	UNDIVIDED JURASSIC AND TRIASSIC ROCKS Sandstone, siltstone, shale, conglomerate and limestone.	JURASSIC-TRIASSIC
	TR	UNDIVIDED TRIASSIC ROCKS Shale, sandstone, siltstone and limestone. Includes Dockum group of clastic rocks essentically Chinle Formation and Santa Rosa Sandstone.	TRIASSIC
	TRc	CHINLE FORMATION Red shale, siltstone, sandstone and limestone.	
	TRs	SANTA ROSA SANDSTONE Cross-bedded sandstone and shale.	
PALEOZOIC	P	UNDIVIDED PERMIAN ROCKS Sandstone, limestone, siltstone, shale and gypsum.	PERMIAN
	Pat	ARTESIA GROUP Siltstone, sandstone and gypsum.	
	Psa	SAN ANDRES LIMESTONE Limestone and gypsum.	
	Pg	GLORIETA SANDSTONE Sandstone.	
	Py	YESO FORMATION Red sandstone and shale.	
	PIP	UNDIVIDED PERMIAN AND PENNSYLVANIAN ROCKS Sandstone, limestone, shale and gypsum.	PERMIAN-PENNSYLVANIAN
	IP	UNDIVIDED PENNSYLVANIAN ROCKS Limestone, shale and sandstone.	PENNSYLVANIAN
	IPm	MADERA FORMATION Limestone, shale and sandstone.	
	IPs	SANDIA FORMATION Sandstone, shale and limestone.	
	MD	UNDIVIDED MISSISSIPPIAN AND DEVONIAN ROCKS Limestone, dolomite and sandstone.	MISSISSIPPIAN-DEVONIAN
		p€i INTRUSIVES Chiefly granite, gneissoid in part, aplite, pegmatite and basic dikes.	PRECAMBRIAN
PROTEROZOIC	p€	UNDIVIDED PRECAMBRIAN ROCKS Chiefly gneiss and schist.	

APPENDIX B - Profiles

LINE 24
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78290



LINE 24

RADAR ALTMTR FEET
MIN 152.3
MAX 4290
MEAN 1230
STD DEV 124.4

BI AIR CORR CTS/SEC
MIN -.0000
MAX 19.42
MEAN 4.002
STD DEV 13.67

RESID MAG GAMMAS
MIN -906.5
MAX 425.2
MEAN -.0000
STD DEV 287.5

THALLIUM 208 CTS/SEC
MIN 17.78
MAX 132.0
MEAN 53.12
STD DEV 14.12

BISMUTH 214 CTS/SEC
MIN 7.769
MAX 53.35
MEAN 22.52
STD DEV 8.951

POTASSIUM 40 CTS/SEC
MIN 5.490
MAX 322.6
MEAN 131.2
STD DEV 61.22

TOTAL COUNTS CTS/SEC
MIN 665.4
MAX 6456
MEAN 2183
STD DEV 583.2

BI/TL
MIN -.0000
MAX 1.018
MEAN .4168
STD DEV .1415

BI/K
MIN -.0000
MAX 3.104
MEAN .2091
STD DEV .1625

TL/K
MIN -.0000
MAX 7.180
MEAN .5600
STD DEV .5716

LINE 25
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78290

TL/K
MIN .1907
MAX 3.441
MEAN .5270
STD DEV .3036

BI/K
MIN .0464
MAX .8650
MEAN .2099
STD DEV .0932

BI/TL
MIN .1027
MAX 1.129
MEAN .4277
STD DEV .1403

TOTAL COUNTS CTS/SEC
MIN 624.0
MAX 5008
MEAN 2198
STD DEV 638.4

POTASSIUM 40 CTS/SEC
MIN 12.06
MAX 402.0
MEAN 127.3
STD DEV 64.06

BISMUTH 214 CTS/SEC
MIN 4.787
MAX 69.00
MEAN 23.10
STD DEV 9.495

THALLIUM 208 CTS/SEC
MIN 14.68
MAX 108.5
MEAN 54.59
STD DEV 15.17

BI AIR CORR CTS/SEC
MIN .4454
MAX 44.08
MEAN 19.64
STD DEV 14.93

RESID MAG GAMMAS
MIN -965.5
MAX 276.2
MEAN -472.7
STD DEV 246.5

RADAR ALTMTR FEET
MIN 149.1
MAX 1099
MEAN 391.8
STD DEV 90.85

LINE 26
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78290

TL/K
MIN .1577
MAX 2.433
MEAN .5208
STD DEV .2194

BI/K
MIN .0000
MAX 1.156
MEAN .2065
STD DEV .1114

BI/TL
MIN .0000
MAX 1.099
MEAN .3992
STD DEV .1256

TOTAL COUNTS CTS/SEC
MIN 994.0
MAX 4200
MEAN 2198
STD DEV 548.7

POTASSIUM 40 CTS/SEC
MIN 12.40
MAX 368.7
MEAN 128.3
STD DEV 63.32

BISMUTH 214 CTS/SEC
MIN 4.288
MAX 52.73
MEAN 22.10
STD DEV 6.884

THALLIUM 208 CTS/SEC
MIN 18.02
MAX 114.3
MEAN 55.95
STD DEV 14.29

BI AIR CORR CTS/SEC
MIN 4.326
MAX 46.17
MEAN 23.46
STD DEV 11.91

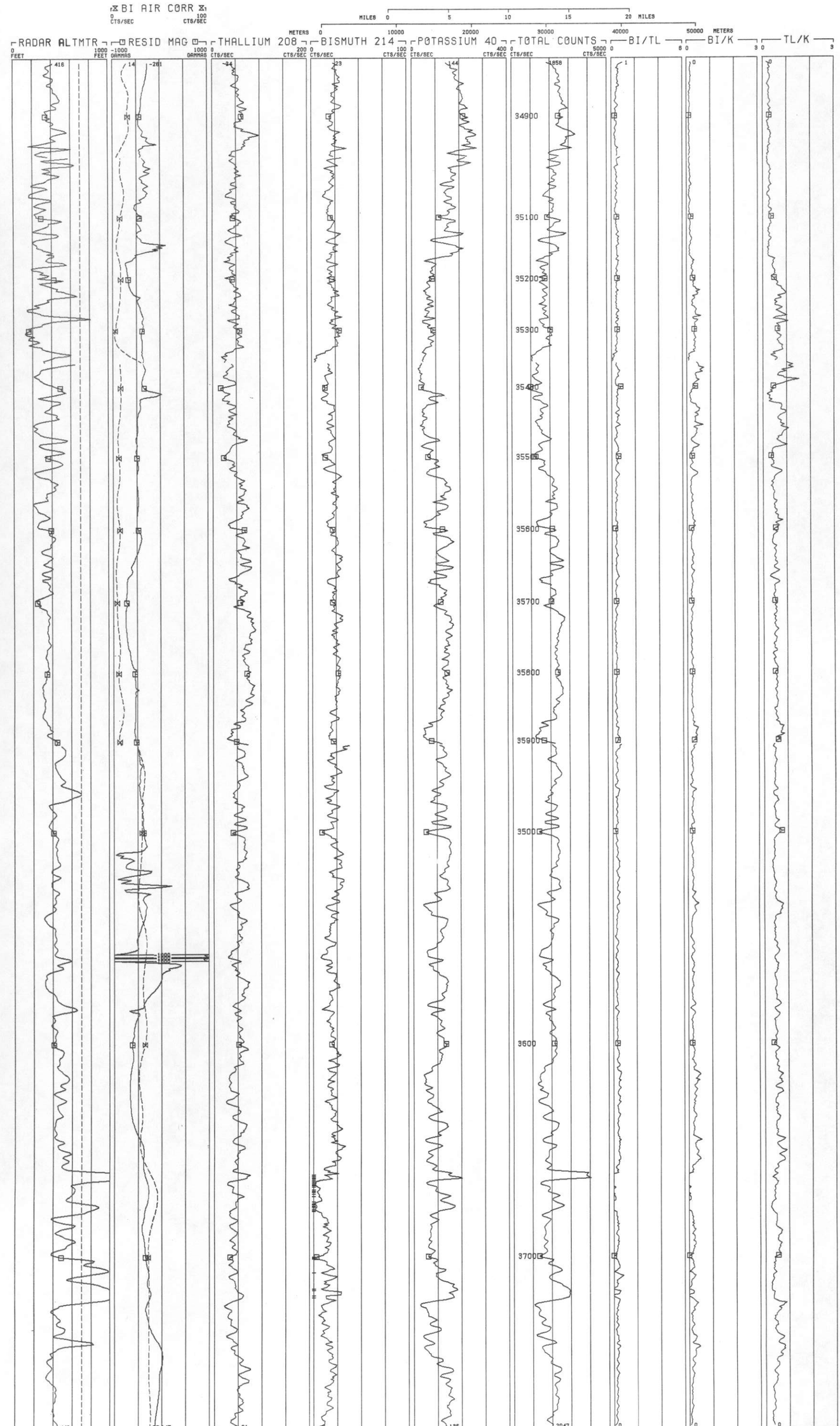
RESID MAG GAMMAS
MIN -1227
MAX 443.4
MEAN -508.0
STD DEV 239.8

RADAR ALTMTR FEET
MIN 145.2
MAX 1178
MEAN 412.7
STD DEV 112.8

LINE 27
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78290

	TL/K	BI/K	BI/TL	TOTAL COUNTS CTS/SEC	POTASSIUM 40 CTS/SEC	BISMUTH 214 CTS/SEC	THALLIUM 208 CTS/SEC	BI AIR CORR CTS/SEC	RESID MAG GAMMAS	RADAR ALTMTR FEET
MIN	.0000	.0000	.0000	984.4	25.26	5.386	20.28	2.138	-994.9	139.5
MAX	1.361	.7792	.9834	4649	282.2	56.15	93.80	45.75	399.7	2138
MEAN	.4963	.1937	.3990	2191	128.3	22.42	57.49	20.52	-460.2	421.8
STD DEV	.1701	.0807	.1121	472.0	48.15	6.492	13.85	11.24	238.3	182.8

LINE 28
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 28

RADAR ALTMTR FEET
MIN 125.1
MAX 1523.
MEAN 432.2
STD DEV 157.8

RESID MAG GAMMAS
MIN -1118.
MAX -419.2
MEAN -432.6
STD DEV 193.7

BI AIR CØRR CTS/SEC
MIN 1.879
MAX 45.50
MEAN 20.04
STD DEV 13.28

THALLIUM 208 CTS/SEC
MIN 2.450
MAX 52.14
MEAN 13.81
STD DEV

BISMUTH 214 CTS/SEC
MIN 2.837
MAX 38.39
MEAN 20.55
STD DEV 5.569

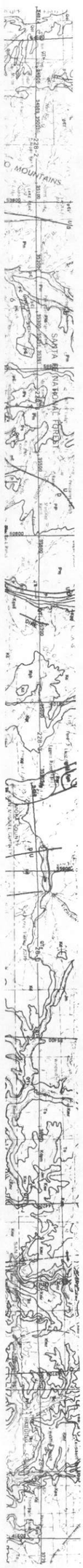
PØTASSIUM 40 CTS/SEC
MIN 27.19
MAX 115.3
MEAN 46.98
STD DEV

TØTAL CØUNTS CTS/SEC
MIN 936.4
MAX 4063.
MEAN 2025.
STD DEV 428.8

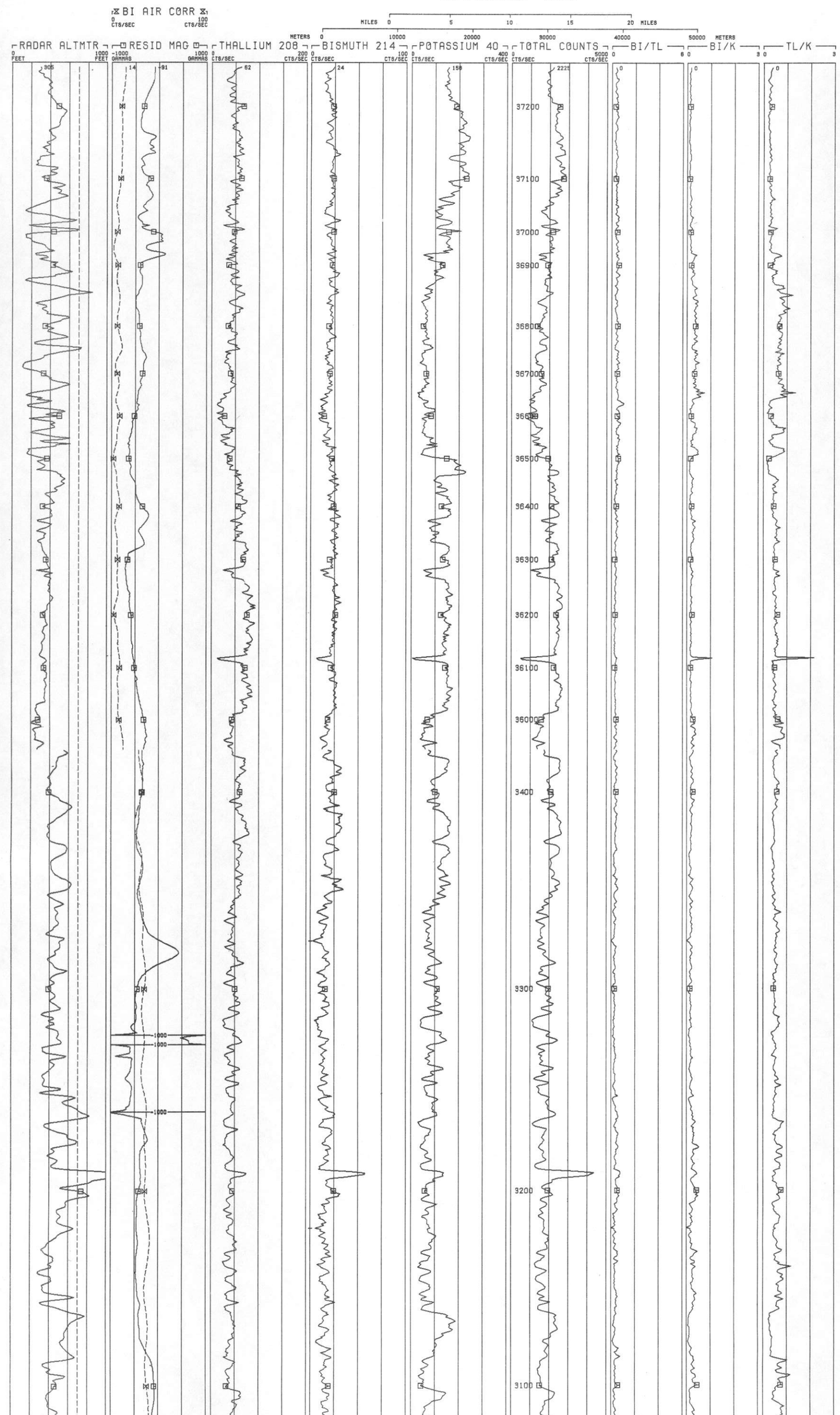
BI/TL
MIN .0000
MAX .9348
MEAN .1949
STD DEV .1205

BI/K
MIN .0000
MAX .7109
MEAN .1974
STD DEV .0995

TL/K
MIN .1682
MAX 1.537
MEAN .5002
STD DEV .1709



LINE 29
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 29

LINE 30
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289

TL/K
MIN .1840
MAX 1.338
MEAN .4941
STD DEV .1681

BI/K
MIN .0000
MAX .6599
MEAN .1858
STD DEV .0835

BI/TL
MIN .0000
MAX 1.034
MEAN .3817
STD DEV .1225

TOTAL COUNTS CTS/SEC
MIN 1063
MAX 4833
MEAN 2112
STD DEV 522.1

POTASSIUM 40 CTS/SEC
MIN 22.25
MAX 381.1
MEAN 120.8
STD DEV 53.95

BISMUTH 214 CTS/SEC
MIN 5.321
MAX 50.51
MEAN 20.20
STD DEV 5.857

THALLIUM 208 CTS/SEC
MIN 18.45
MAX 111.8
MEAN 53.35
STD DEV 14.93

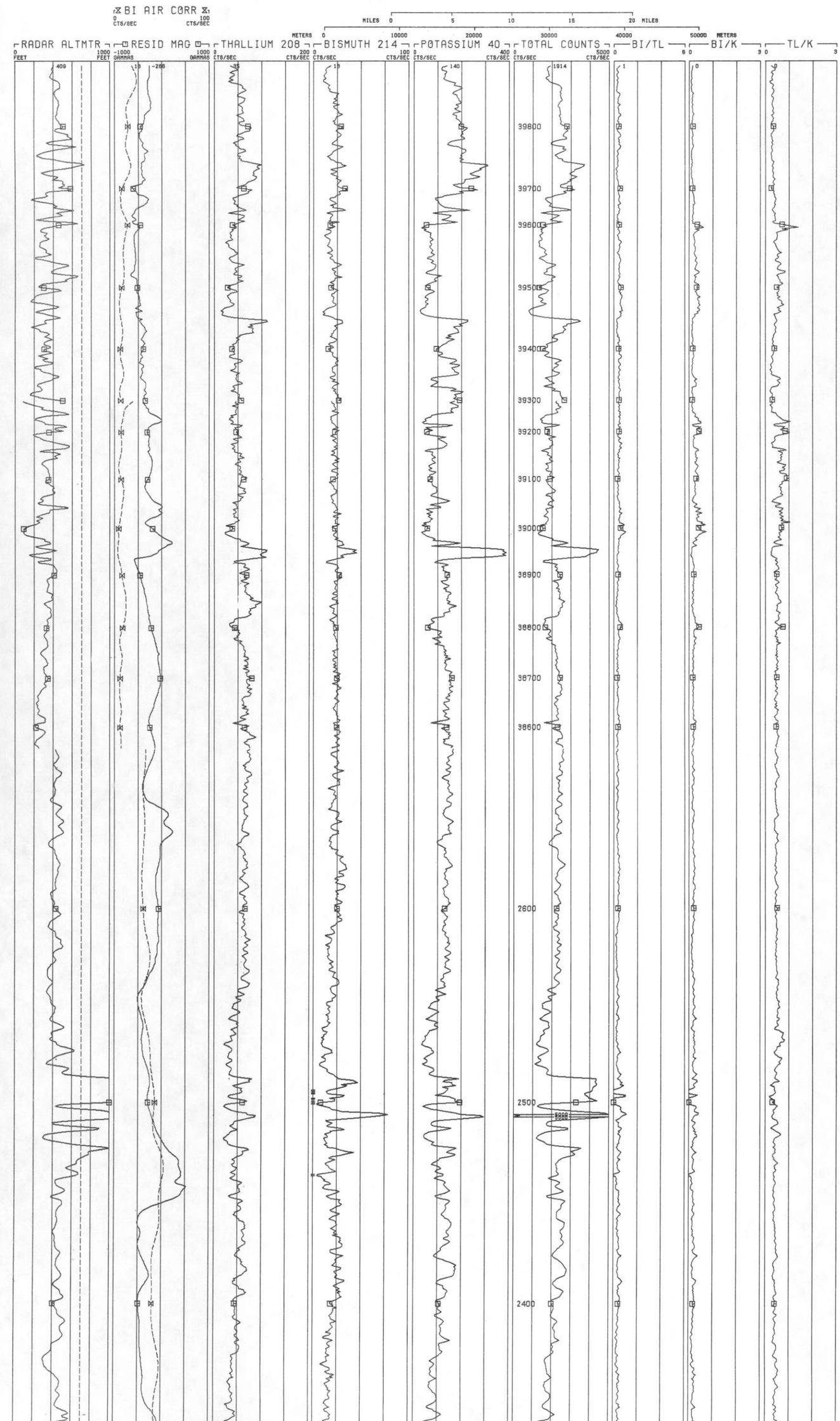
BI AIR CORR CTS/SEC
MIN 3.064
MAX 54.41
MEAN 22.54
STD DEV 15.68

RESID MAG GAMMAS
MIN -813.8
MAX 397.8
MEAN -308.4
STD DEV 183.4

RADAR ALTMTR FEET
MIN 111.4
MAX 1973
MEAN 437.5
STD DEV 196.5

LINE 30

LINE 31
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 31

95F

LINE 32
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289

TL/K
MIN .1787
MAX .9844
MEAN .4531
STD DEV .1255

BI/K
MIN .0000
MAX .5991
MEAN .1672
STD DEV .0670

BI/TL
MIN .0000
MAX 1.214
MEAN .3720
STD DEV .1094

TOTAL COUNTS CTS/SEC
MIN 1166
MAX 3476
MEAN 2150
STD DEV 376.4

POTASSIUM 40 CTS/SEC
MIN 31.09
MAX 291.0
MEAN 130.3
STD DEV 44.65

BISMUTH 214 CTS/SEC
MIN 3.704
MAX 52.24
MEAN 19.94
STD DEV 5.325

THALLIUM 208 CTS/SEC
MIN 20.13
MAX 108.1
MEAN 55.08
STD DEV 13.29

BI AIR CORR CTS/SEC
MIN .6643
MAX 52.40
MEAN 22.35
STD DEV 18.30

RESID MAG GAMMAS
MIN -852.9
MAX 1675
MEAN -319.7
STD DEV 244.1

RADAR ALTMTR FEET
MIN 115.1
MAX 1021
MEAN 419.9
STD DEV 117.6

LINE 33
SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289
RATON BASIN

TL/K
MIN .1687
MAX .9713
MEAN .4673
STD DEV .1196

BI/K
MIN .0574
MAX .4714
MEAN .1768
STD DEV .0683

BI/TL
MIN .1121
MAX 1.003
MEAN .3804
STD DEV .1177

TOTAL COUNTS CTS/SEC
MIN 949.8
MAX 3470
MEAN 2152
STD DEV 418.8

POTASSIUM 40 CTS/SEC
MIN 31.95
MAX 305.8
MEAN 127.7
STD DEV 47.74

BISMUTH 214 CTS/SEC
MIN 5.946
MAX 43.25
MEAN 20.29
STD DEV 5.306

THALLIUM 208 CTS/SEC
MIN 22.31
MAX 103.5
MEAN 55.72
STD DEV 14.80

BI AIR CORR CTS/SEC
MIN 1.643
MAX 56.78
MEAN 23.20
STD DEV 18.77

RESID MAG GAMMAS
MIN -722.6
MAX 151.7
MEAN -389.9
STD DEV 172.7

RADAR ALTMTR FEET
MIN 153.4
MAX 954.4
MEAN 404.3
STD DEV 102.2

LINE 33

LINE 34
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289

TL/K
MIN .2209
MAX 1.229
MEAN .5066
STD DEV .1336

BI/K
MIN .0575
MAX .5812
MEAN .1966
STD DEV .0857

BI/TL
MIN .1451
MAX .9674
MEAN .3658
STD DEV .1237

TOTAL COUNTS CTS/SEC
MIN 1048
MAX 4360
MEAN 2154
STD DEV 499.1

POTASSIUM 40 CTS/SEC
MIN 37.27
MAX 320.1
MEAN 123.4
STD DEV 53.43

BISMUTH 214 CTS/SEC
MIN 6.050
MAX 41.56
MEAN 21.23
STD DEV 8.065

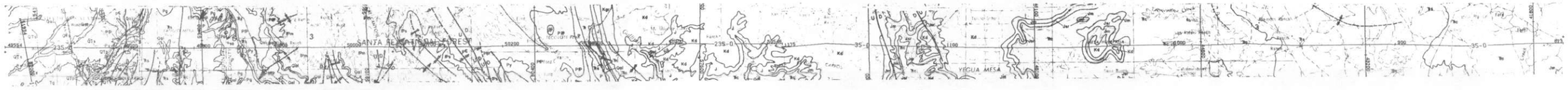
THALLIUM 208 CTS/SEC
MIN 17.92
MAX 144.6
MEAN 57.75
STD DEV 17.56

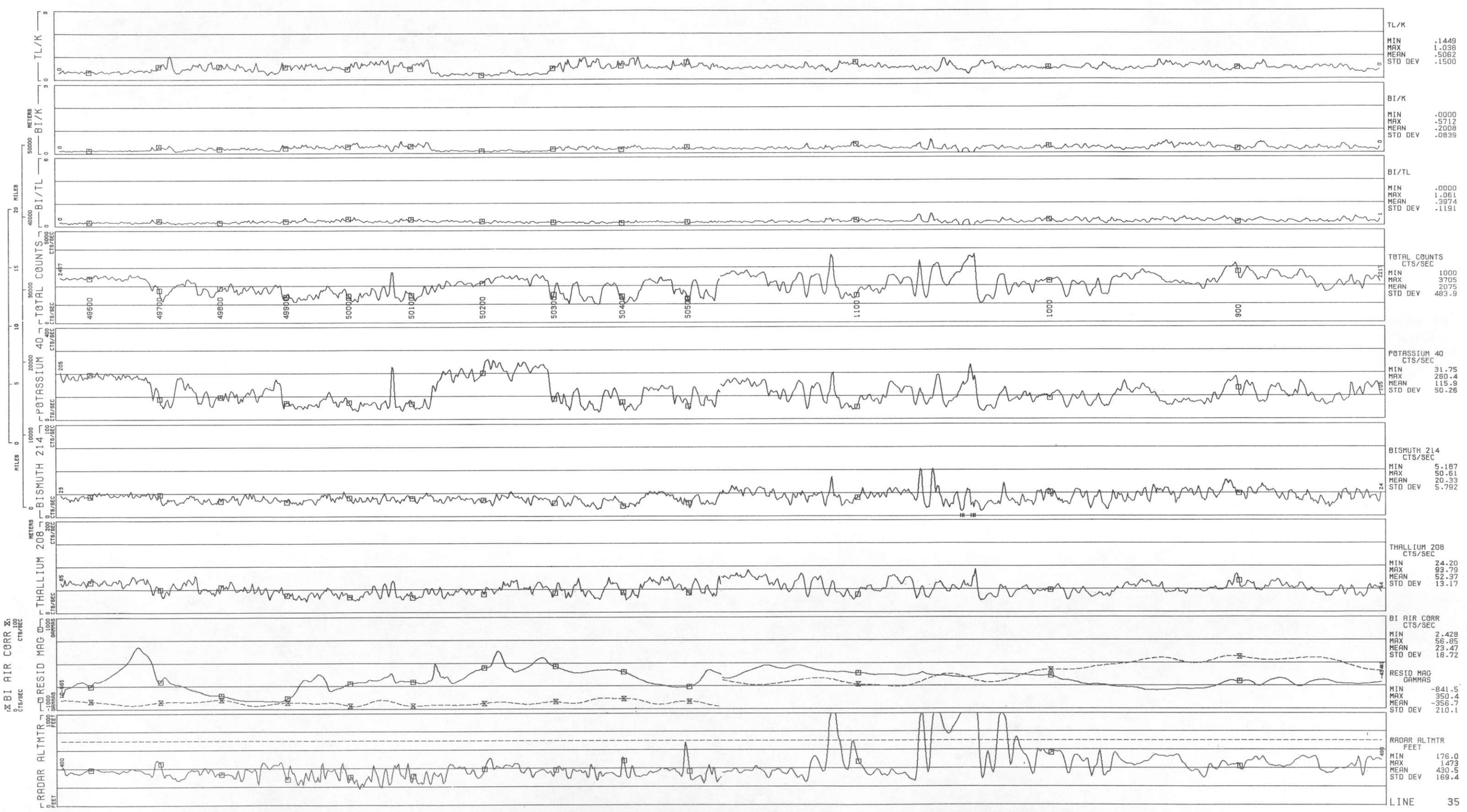
BI AIR CORR CTS/SEC
MIN 1.949
MAX 57.07
MEAN 22.64
STD DEV 18.49

RESID MAG GAMMAS
MIN -760.2
MAX 140.0
MEAN -376.5
STD DEV 207.5

RADAR ALTMTR FEET
MIN 185.8
MAX 991.3
MEAN 388.6
STD DEV 85.10

LINE 35
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78209





LINE 36
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289

TL/K
MIN .1782
MAX .8542
MEAN .4598
STD DEV .1174

BI/K
MIN .0000
MAX .8511
MEAN .2168
STD DEV .1008

BI/TL
MIN .0000
MAX 1.881
MEAN .4715
STD DEV .1873

TOTAL COUNTS CTS/SEC
MIN 947.1
MAX 3614
MEAN 2102
STD DEV 403.4

POTASSIUM 40 CTS/SEC
MIN 13.58
MAX 241.0
MEAN 115.0
STD DEV 39.67

BISMUTH 214 CTS/SEC
MIN 4.163
MAX 72.93
MEAN 22.73
STD DEV 8.261

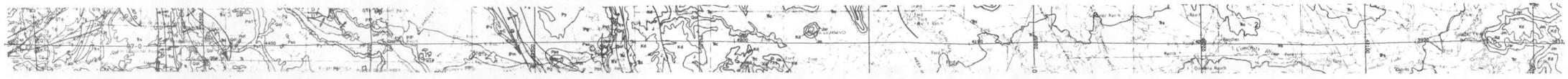
THALLIUM 208 CTS/SEC
MIN 4.311
MAX 83.46
MEAN 40.63
STD DEV 11.87

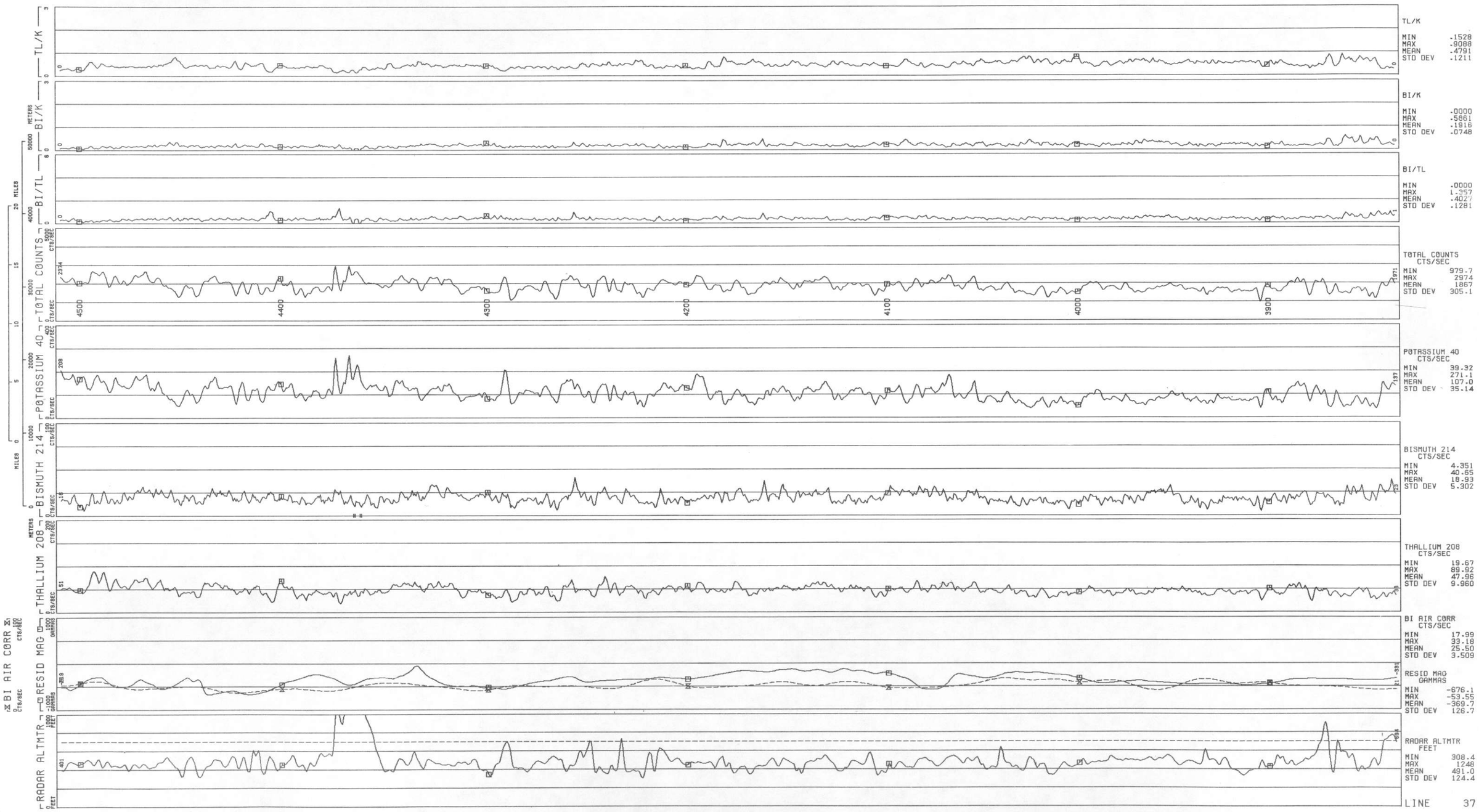
BI AIR CORR CTS/SEC
MIN 17.37
MAX 57.20
MEAN 30.67
STD DEV 10.60

RESID MAG GAMMAS
MIN -648.6
MAX -50.37
MEAN -348.6
STD DEV 143.6

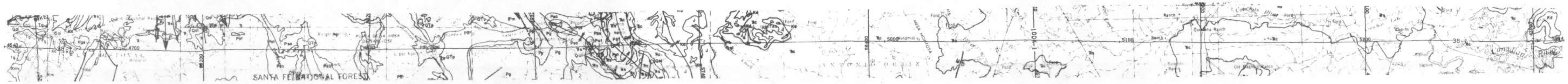
RADAR ALTMTR FEET
MIN 304.3
MAX 1572
MEAN 530.7
STD DEV 181.7

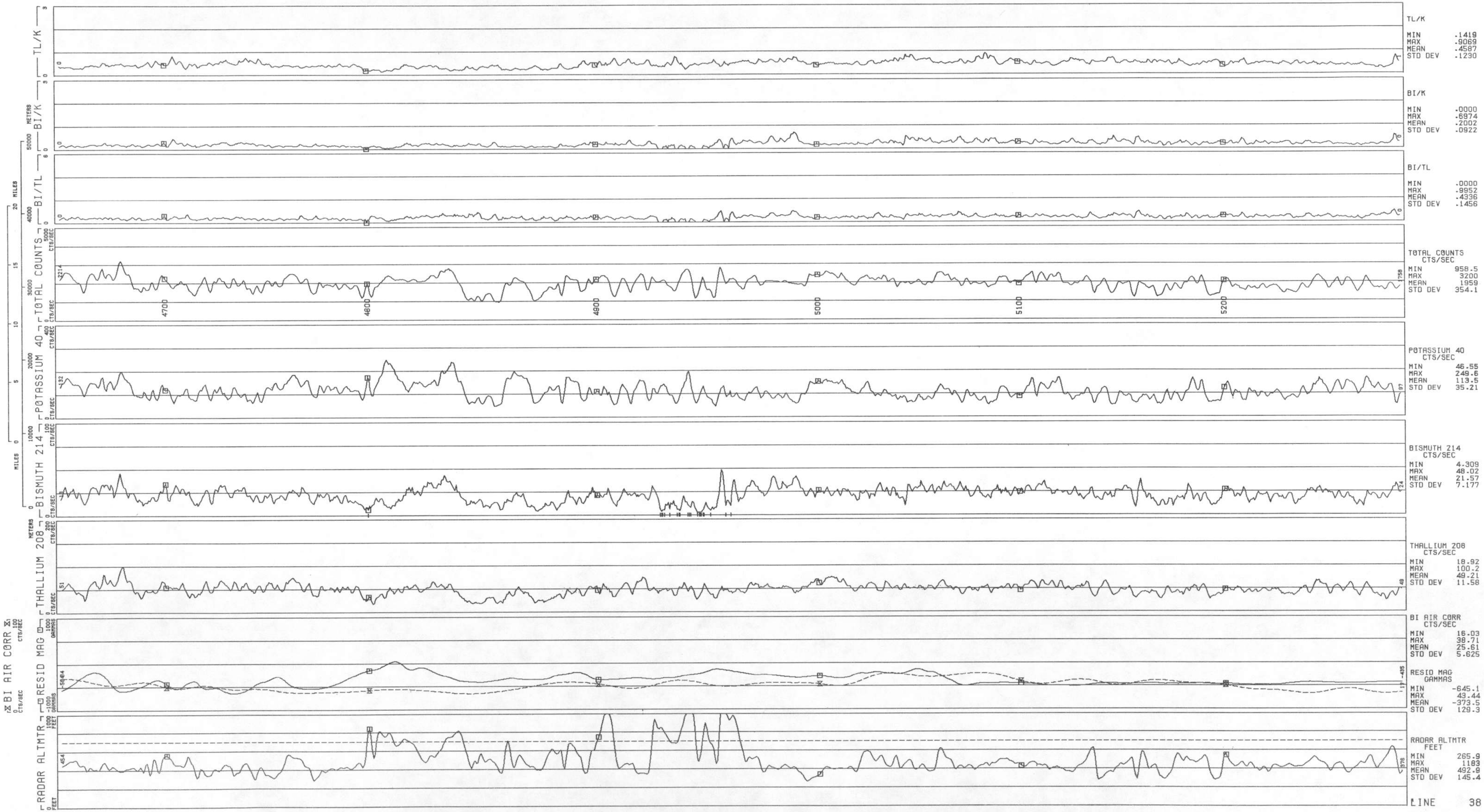
LINE 37
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289





LINE 38
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78290





LINE 39
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78291

	TL/K	BI/K	BI/TL	TOTAL COUNTS CTS/SEC	POTASSIUM 40 CTS/SEC	BISMUTH 214 CTS/SEC	THALLIUM 208 CTS/SEC	BI AIR CORR CTS/SEC	RESID MAG GAMMAS	RADAR ALTMTR FEET
MIN	.1444	.0000	.0000	880.6	33.23	5.308	17.18	10.01	-775.9	255.3
MAX	1.036	.4358	.8093	3758	270.9	40.26	131.4	66.48	1.563	845.9
MEAN	.4625	.1791	.3926	2122	119.7	20.11	51.76	35.72	-408.4	450.2
STD DEV	.1208	.0645	.1104	381.5	41.56	5.961	12.50	16.01	152.5	85.75

LINE 40
SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78291
RATON BASIN

TL/K
MIN .1491
MAX 1.159
MEAN .4816
STD DEV .1226

BI/K
MIN .0000
MAX .6320
MEAN .1800
STD DEV .0729

BI/TL
MIN .0000
MAX 1.328
MEAN .3752
STD DEV .1273

TOTAL COUNTS CTS/SEC
MIN 885.0
MAX 3020
MEAN 2248
STD DEV 383.6

POTASSIUM 40 CTS/SEC
MIN 28.27
MAX 187.9
MEAN 114.3
STD DEV 33.64

BISMUTH 214 CTS/SEC
MIN 3.617
MAX 38.15
MEAN 19.71
STD DEV 6.159

THALLIUM 208 CTS/SEC
MIN 15.14
MAX 81.32
MEAN 52.55
STD DEV 12.11

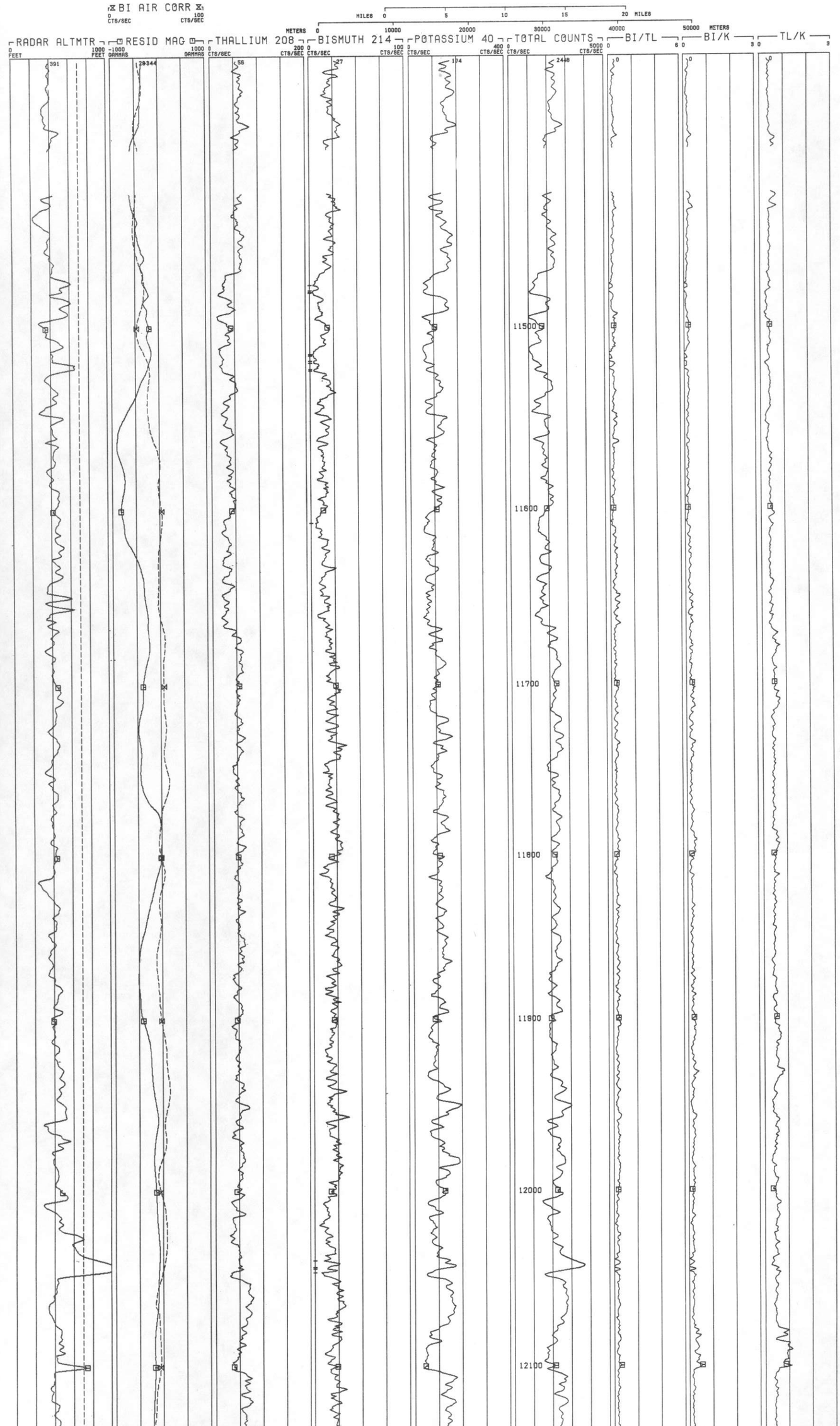
BI AIR CORR CTS/SEC
MIN 22.65
MAX 61.19
MEAN 46.66
STD DEV 10.95

RESID MAG GAMMAS
MIN -747.2
MAX 222.1
MEAN -358.8
STD DEV 174.4

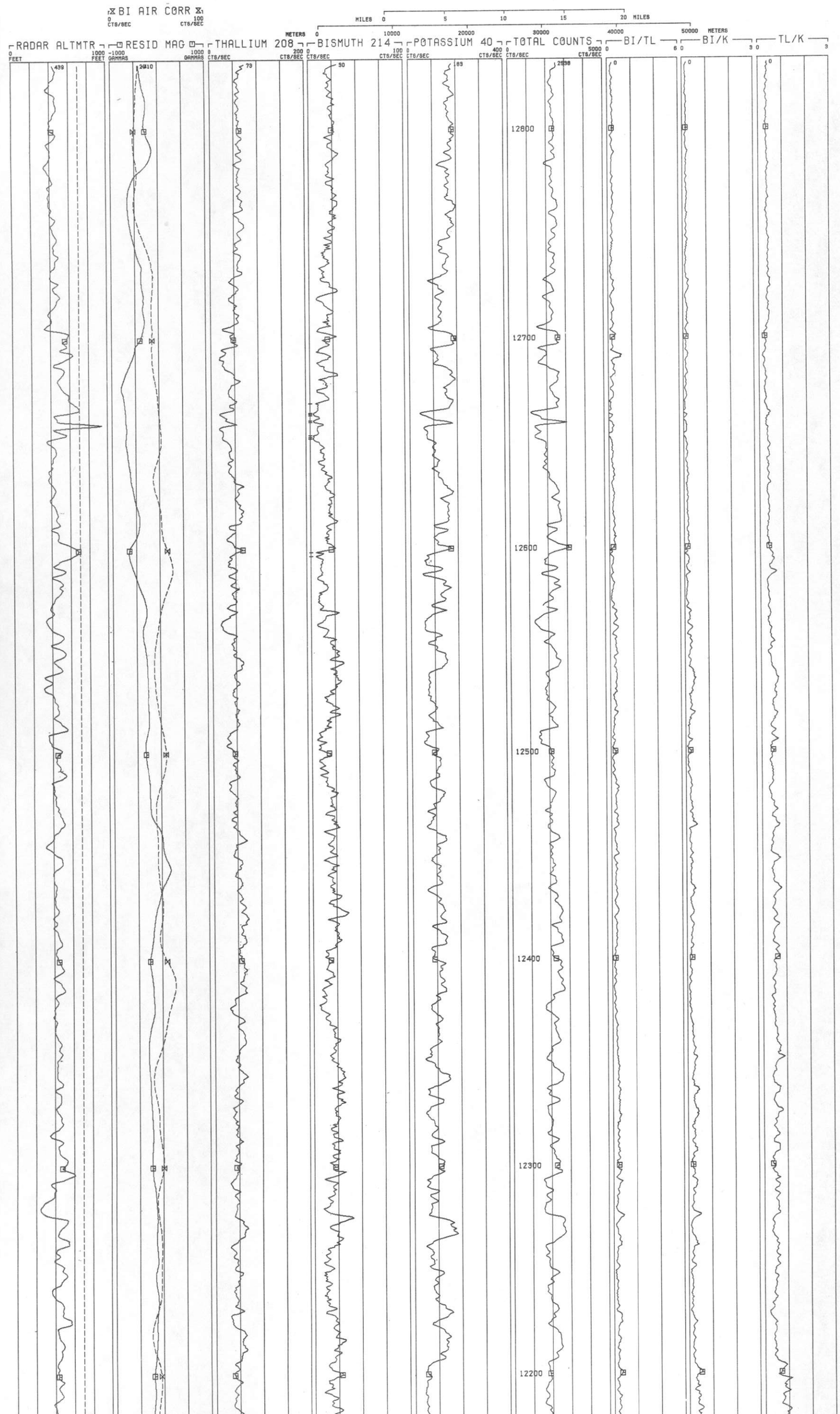
RADAR ALTMTR FEET
MIN 257.8
MAX 855.5
MEAN 465.8
STD DEV 80.88

LINE 40

LINE 41
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



LINE 42
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



LINE 42

RADAR ALTMTR FEET
MIN 245.1
MAX 937.2
MEAN 449.7
STD DEV 85.44

RESID MAG GAMMAS
MIN -808.0
MAX 191.9
MEAN -51.51
STD DEV 196.9

BI AIR CORR CTS/SEC
MIN 23.31
MAX 63.80
MEAN 44.55
STD DEV 8.697

THALLIUM 208 CTS/SEC
MIN 17.53
MAX 73.50
MEAN 49.92
STD DEV 10.83

BISMUTH 214 CTS/SEC
MIN 3.708
MAX 40.26
MEAN 19.24
STD DEV 6.118

PØTASSIUM 40 CTS/SEC
MIN 43.15
MAX 199.1
MEAN 115.4
STD DEV 38.10

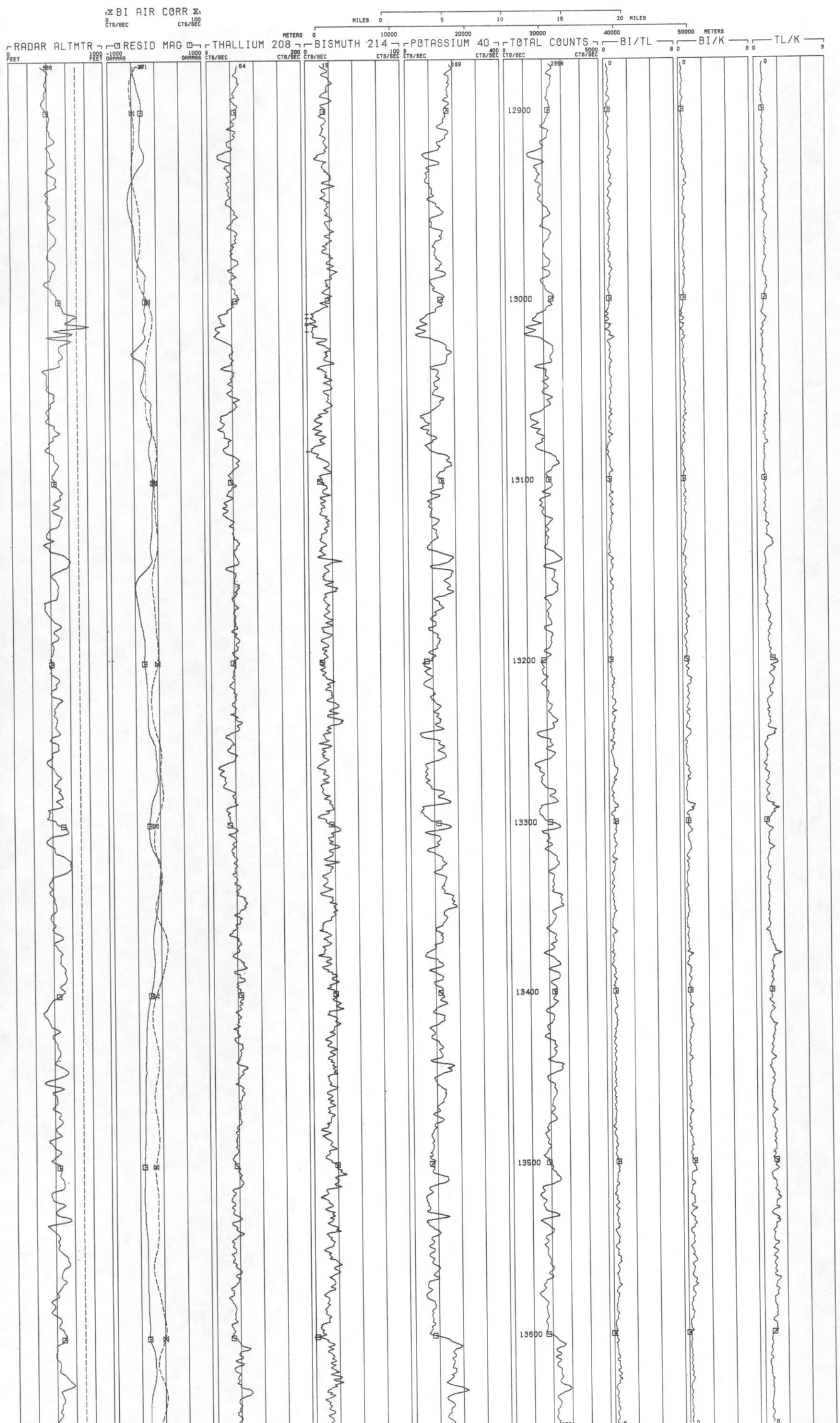
TØTAL COUNTS CTS/SEC
MIN 1134
MAX 3170
MEAN 2169
STD DEV 306.2

BI/TL
MIN .0000
MAX 1.122
MEAN .3857
STD DEV .1291

BI/K
MIN .0000
MAX .5899
MEAN .1821
STD DEV .0888

TL/K
MIN .1550
MAX 1.546
MEAN .4677
STD DEV .1476

LINE 43
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



LINE 43

RADAR ALTMTR FEET
MIN 287.4
MAX 831.8
MEAN 441.1
STD DEV 63.00

RESID MAG GAMMAS
MIN -609.6
MAX 396.9
MEAN -262.0
STD DEV 127.4

BI AIR CØRR CTS/SEC
MIN 22.43
MAX 52.43
MEAN 42.62
STD DEV 7.633

THALLIUM 208 CTS/SEC
MIN 12.65
MAX 74.36
MEAN 47.92
STD DEV 10.29

BISMUTH 214 CTS/SEC
MIN 3.989
MAX 34.75
MEAN 18.25
STD DEV 5.302

PØTASSIUM 40 CTS/SEC
MIN 39.89
MAX 123.7
MEAN 78.69
STD DEV 38.20

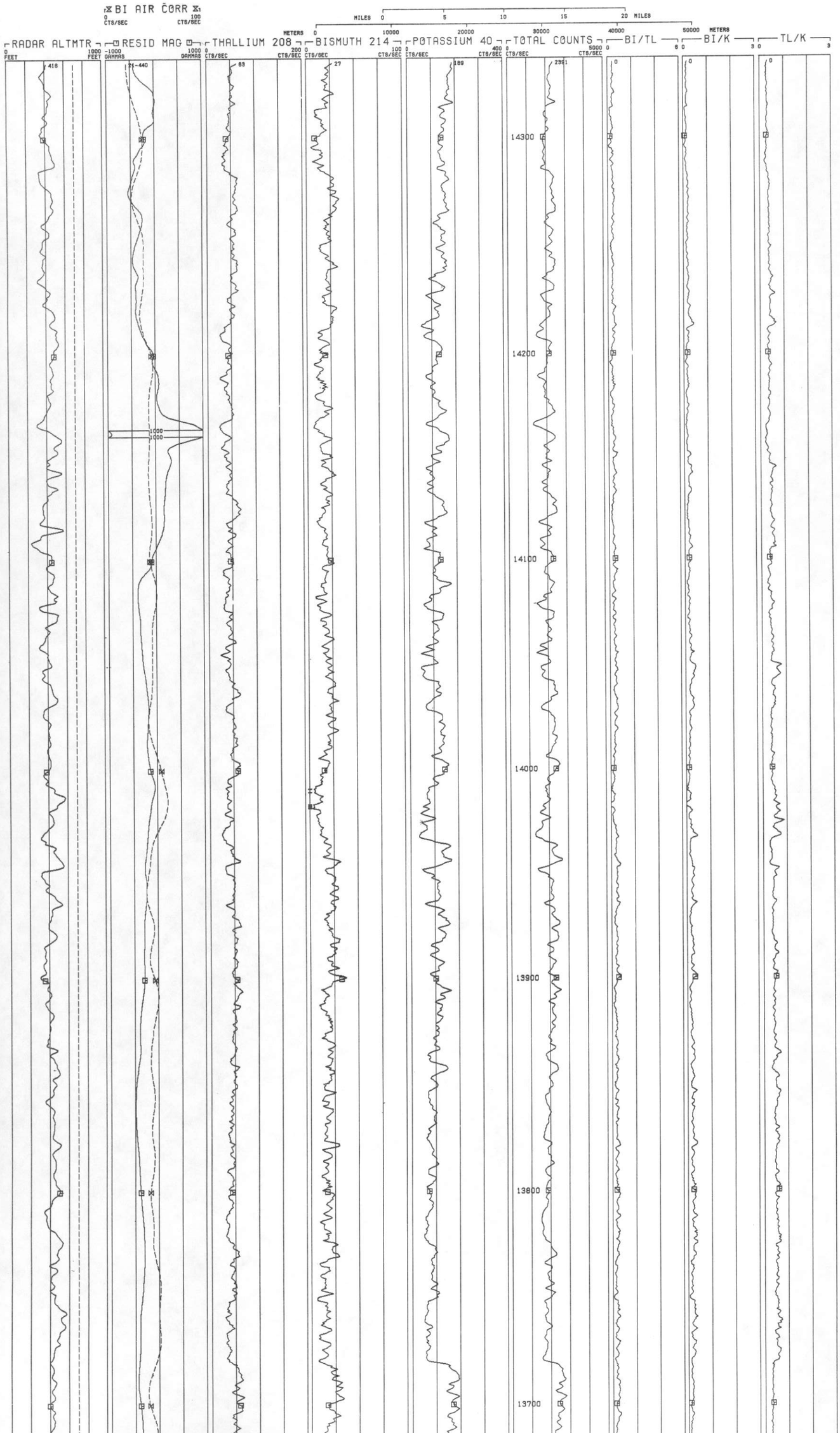
TØTAL CØUNTS CTS/SEC
MIN 977.4
MAX 2943
MEAN 2099
STD DEV 317.7

BI/TL
MIN .0000
MAX .7809
MEAN .3847
STD DEV .1146

BI/K
MIN .0000
MAX .4616
MEAN .1646
STD DEV .0641

TL/K
MIN .2058
MAX .8905
MEAN .4293
STD DEV .1095

LINE 44
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



LINE 44

RADAR ALTMTR FEET
MIN 239.5
MAX 1000.
MEAN 428.1
STD DEV 54.98

RESID MAG GAMMAS
MIN -564.4
MAX 1000.
MEAN -243.0
STD DEV 240.6

BI AIR CORR CTS/SEC
MIN 20.79
MAX 100.0
MEAN 42.83
STD DEV 6.854

THALLIUM 208 CTS/SEC
MIN 24.19
MAX 68.24
MEAN 48.27
STD DEV 8.692

BISMUTH 214 CTS/SEC
MIN 4.725
MAX 37.45
MEAN 18.58
STD DEV 5.680

POTASSIUM 40 CTS/SEC
MIN 37.07
MAX 195.8
MEAN 111.8
STD DEV 34.97

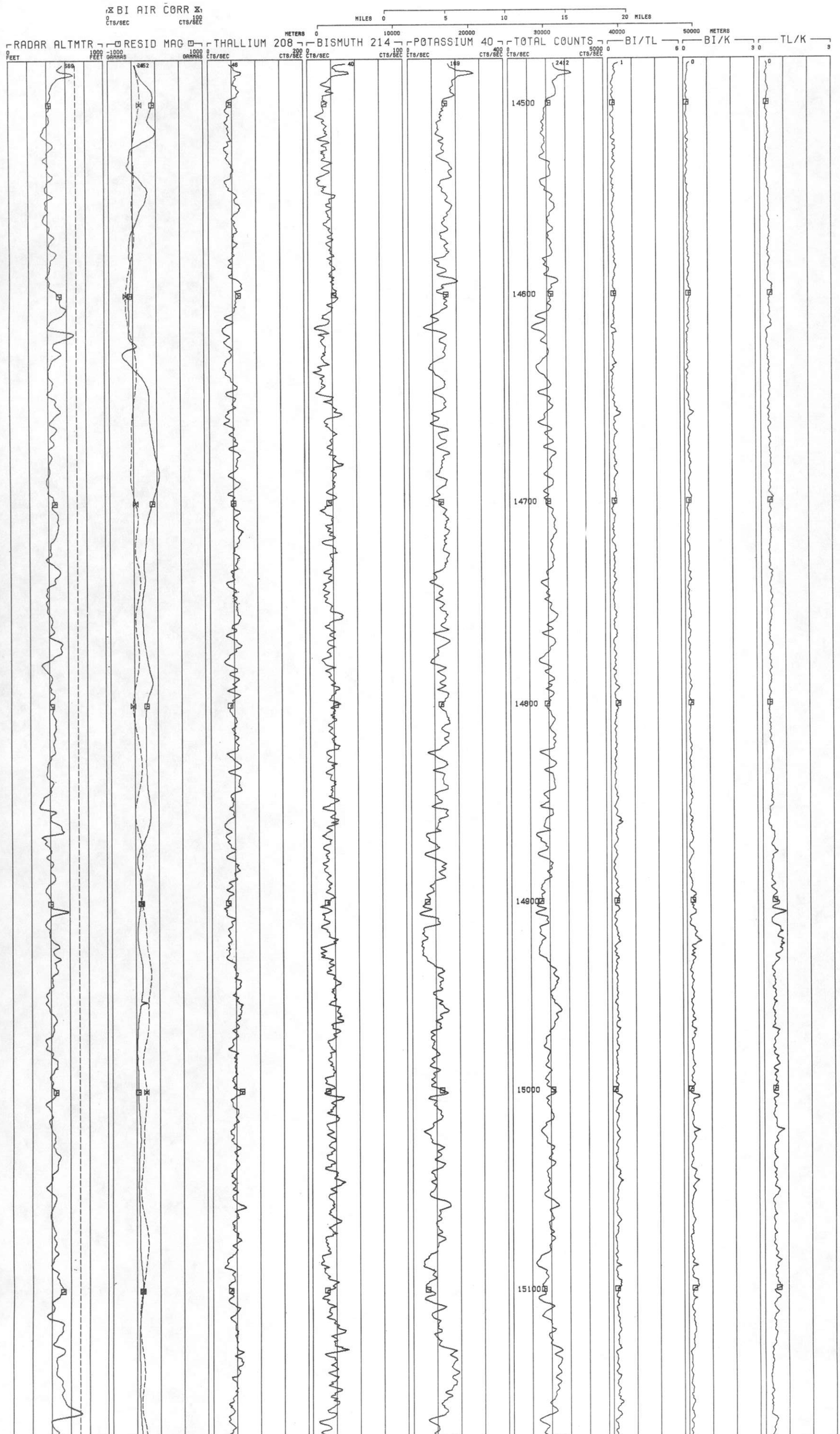
TOTAL COUNTS CTS/SEC
MIN 1281
MAX 2805
MEAN 2059
STD DEV 270.0

BI/TL
MIN -0000
MAX .7620
MEAN .4004
STD DEV .1163

BI/K
MIN -0000
MAX .4305
MEAN .1745
STD DEV .0693

TL/K
MIN .2054
MAX .8956
MEAN .4358
STD DEV .1070

LINE 45
RATØN BASIN - SANTA FE NTMS NI 13-2 - GE0METRICS
DATA ACQUIRED 78292



LINE 45

RADAR ALTMTR FEET
MIN 291.6
MAX 1000.
MEAN 438.4
STD DEV 57.25

RESID MAG GAMMAS
MIN -729.6
MAX 455.79
MEAN -353.5
STD DEV 150.2

BI AIR CORR CTS/SEC
MIN 17.00
MAX 41.27
MEAN 29.27
STD DEV 4.986

THALLIUM 208 CTS/SEC
MIN 24.43
MAX 70.49
MEAN 48.15
STD DEV 8.959

BISMUTH 214 CTS/SEC
MIN 4.660
MAX 43.17
MEAN 20.66
STD DEV 5.349

PØTASSIUM 40 CTS/SEC
MIN 32.22
MAX 77.75
MEAN 123.7
STD DEV 34.24

TØTAL COUNTS CTS/SEC
MIN 1205
MAX 3345
MEAN 2006
STD DEV 286.5

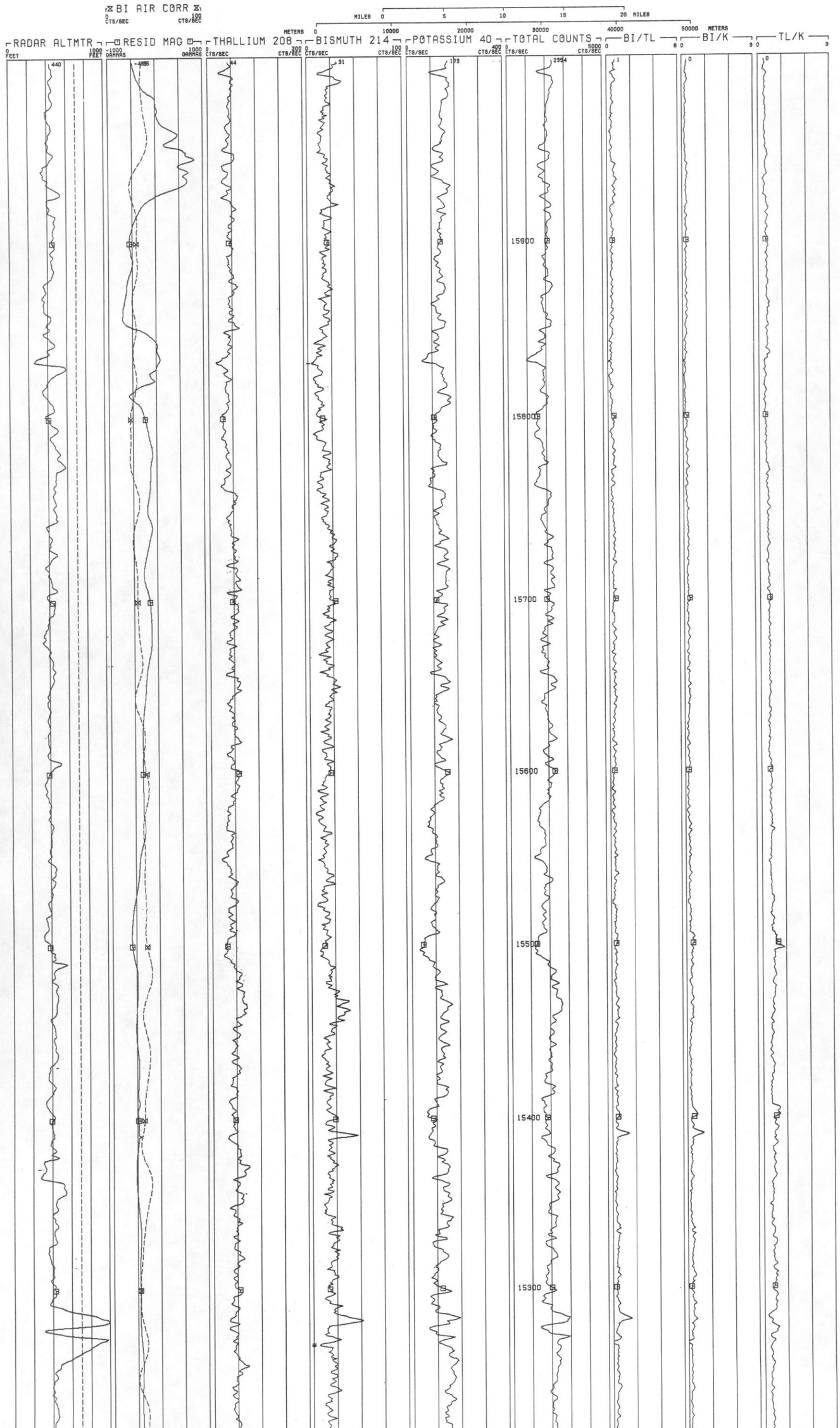
BI/TL
MIN .1273
MAX .9743
MEAN .4259
STD DEV .1153

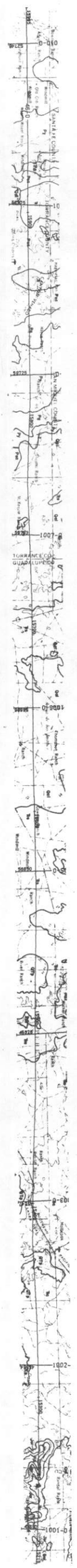
BI/K
MIN .0455
MAX .5861
MEAN .1791
STD DEV .0686

TL/K
MIN .2242
MAX .6753
MEAN .4116
STD DEV .1058

235F

LINE 46
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78292





LINE 46

RADAR ALTMTR FEET: MIN 264.2, MAX 1007, MEAN 432.6, STD DEV 82.36

RESID MAG GAMMAS: MIN -716.6, MAX 813.7, MEAN -323.1, STD DEV 251.8

BI AIR CØRR CTS/SEC: MIN 21.27, MAX 41.49, MEAN 31.31, STD DEV 4.917

THALLIUM 208 CTS/SEC: MIN 16.00, MAX 76.84, MEAN 46.65, STD DEV 9.159

BISMUTH 214 CTS/SEC: MIN 4.653, MAX 51.81, MEAN 19.24, STD DEV 5.842

PØTASSIUM 40 CTS/SEC: MIN 39.87, MAX 195.5, MEAN 125.5, STD DEV 27.44

TØTAL CØUNTS CTS/SEC: MIN 985.1, MAX 2974, MEAN 2198, STD DEV 282.19

BI/TL: MIN .0000, MAX 1.570, MEAN .4070, STD DEV .1349

BI/K: MIN .0000, MAX .6754, MEAN .1755, STD DEV .0565

TL/K: MIN .1783, MAX .9987, MEAN .5019, STD DEV .0859

LINE 1001
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78303

TL/K
MIN .2589
MAX 2.337
MEAN .5396
STD DEV .2615

BI/K
MIN .0625
MAX 1.329
MEAN .2375
STD DEV .1418

BI/TL
MIN .1789
MAX .7701
MEAN .4328
STD DEV .0890

TOTAL COUNTS CTS/SEC
MIN 1262
MAX 3089
MEAN 2242
STD DEV 405.1

POTASSIUM 40 CTS/SEC
MIN 16.95
MAX 212.1
MEAN 115.3
STD DEV 41.25

BISMUTH 214 CTS/SEC
MIN 10.48
MAX 37.02
MEAN 22.88
STD DEV 5.200

THALLIUM 208 CTS/SEC
MIN 25.53
MAX 83.36
MEAN 53.80
STD DEV 11.36

BI AIR CORR CTS/SEC
MIN 11.93
MAX 41.19
MEAN 25.00
STD DEV 7.941

RESID MAG GAMMAS
MIN -567.2
MAX 105.2
MEAN -245.2
STD DEV 168.5

RADAR ALTMTR FEET
MIN 189.7
MAX 642.8
MEAN 402.6
STD DEV 54.51

LINE 1001

LINE 1002
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78303

	TL/K	BI/K	BI/TL	TOTAL COUNTS CTS/SEC	POTASSIUM 40 CTS/SEC	BISMUTH 214 CTS/SEC	THALLIUM 208 CTS/SEC	BI AIR CORR CTS/SEC	RESID MAG GAMMAS	RADAR ALTMTR FEET
MIN	.3222	.0786	.1011	1151	20.66	3.785	24.21	12.57	-590.7	208.3
MAX	1.516	.6231	.6788	3252	177.0	35.05	84.06	46.37	-10.90	919.2
MEAN	.6106	.2240	.3689	2071	90.00	18.63	51.29	26.91	-358.0	407.4
STD DEV	.1575	.0732	.0829	414.7	30.44	4.717	11.03	8.709	139.7	87.49

LINE 1002

LINE 1003
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78303

	MIN	MAX	MEAN	STD DEV
TL/K	.3185	1.469	.6322	.1705
BI/K	.0946	.6735	.2511	.0850
BI/TL	.2066	.7469	.3981	.0837
TOTAL COUNTS CTS/SEC	1274	3127	2168	342.8
POTASSIUM 40 CTS/SEC	24.94	179.2	88.53	28.51
BISMUTH 214 CTS/SEC	8.761	32.31	20.40	4.079
THALLIUM 208 CTS/SEC	26.52	92.15	52.28	10.31
BI AIR CORR CTS/SEC	20.97	44.17	34.46	6.470
RESID MAG GAMMAS	-981.9	-75.38	-393.0	147.2
RADAR ALTMTR FEET	195.5	609.2	397.7	65.32

LINE 1003

LINE 1004
RATØN BASIN - SANTA FE NTMS NI 13-2.- GEØMETRICS
DATA ACQUIRED 78303

TL/K
MIN .3770
MAX 1.847
MEAN .6347
STD DEV .1724

BI/K
MIN .0581
MAX 1.077
MEAN .2538
STD DEV .1116

BI/TL
MIN .1083
MAX .8006
MEAN .3938
STD DEV .0908

TØTAL COUNTS CTS/SEC
MIN 1017
MAX 3209
MEAN 2162
STD DEV 356.9

PØTASSIUM 40 CTS/SEC
MIN 14.24
MAX 158.7
MEAN 90.95
STD DEV 30.35

BISMUTH 214 CTS/SEC
MIN 7.039
MAX 32.71
MEAN 20.51
STD DEV 4.272

THALLIUM 208 CTS/SEC
MIN 22.42
MAX 85.28
MEAN 59.61
STD DEV 11.48

BI AIR CØRR CTS/SEC
MIN 14.94
MAX 46.54
MEAN 29.68
STD DEV 7.566

RESID MAG GAMMAS
MIN -1375
MAX 466.2
MEAN -362.7
STD DEV 175.6

RADAR ALTMTR FEET
MIN 135.4
MAX 875.8
MEAN 408.0
STD DEV 100.4

LINE 1004

LINE 1005
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78309

LINE 1006
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78309

	TL/K	BI/K	BI/TL	TOTAL COUNTS CTS/SEC	POTASSIUM 40 CTS/SEC	BISMUTH 214 CTS/SEC	THALLIUM 208 CTS/SEC	BI AIR CORR CTS/SEC	RESID MAG GAMMAS	RADAR ALTMTR FEET
MIN	.3343	.1142	.2836	1195	27.92	9.820	25.24	7.751	-917.1	169.9
MAX	1.261	.7703	.8920	2741	156.7	41.82	82.55	29.58	183.0	621.5
MEAN	.5665	.2681	.4730	2089	98.35	24.66	53.15	17.21	-364.3	383.0
STD DEV	.1294	.0816	.0856	322.6	28.35	4.872	11.41	4.789	241.2	73.38

LINE 1006

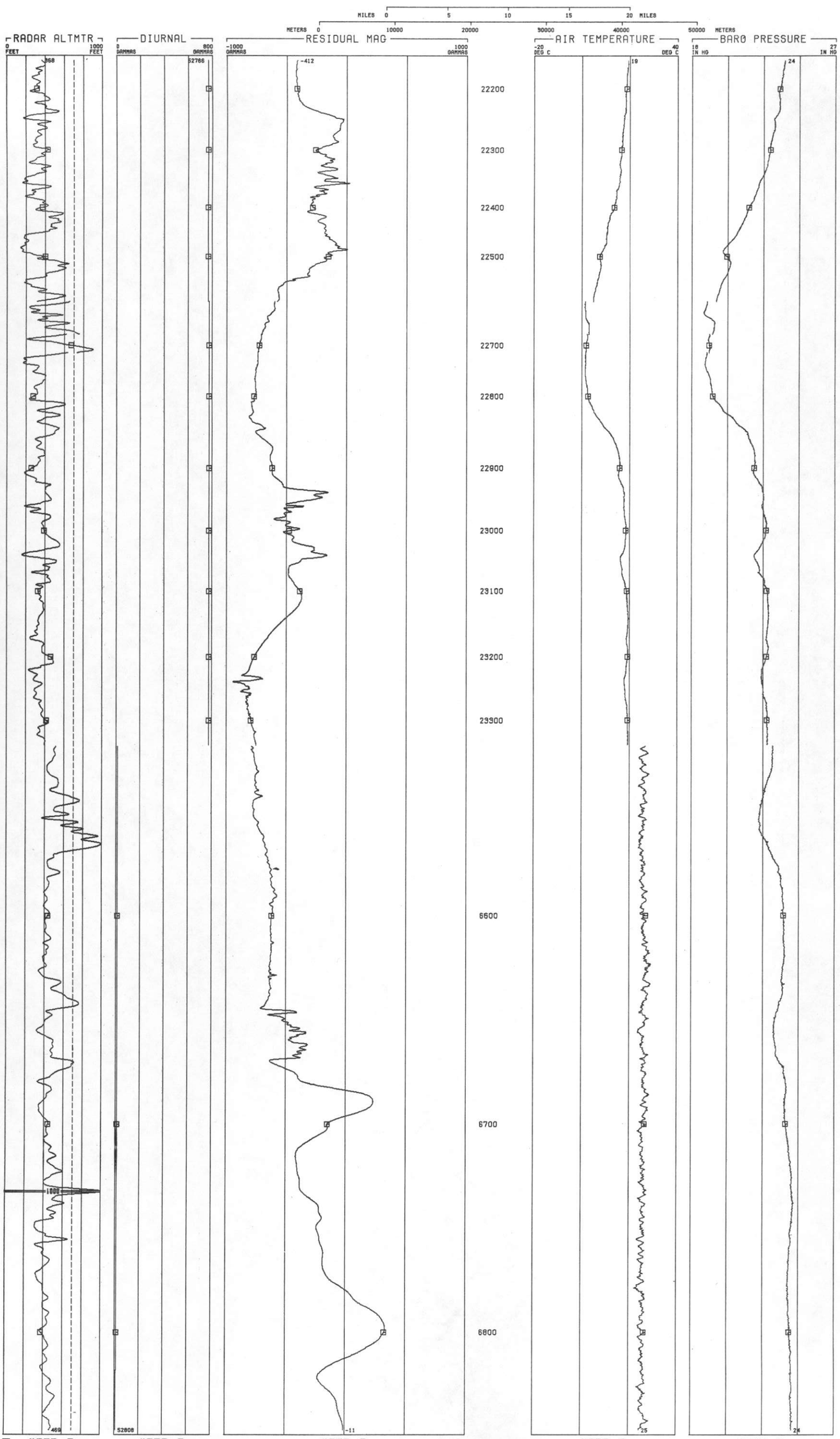
LINE 1007
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78309
TORRANCE CO
GUADALUPE CO
TL/K
BI/K
BI/TL
TOTAL COUNTS CTS/SEC
POTASSIUM 40 CTS/SEC
BISMUTH 214 CTS/SEC
THALLIUM 208 CTS/SEC
BI AIR CORR CTS/SEC
RESID MAG GAMMAS
RADAR ALTMTR FEET
MILES
METERS
MIN .1510
MAX .9575
MEAN .4893
STD DEV .1530
MIN .0778
MAX .7657
MEAN .2539
STD DEV .1094
MIN .2549
MAX 1.201
MEAN .516
STD DEV .1232
MIN 1069
MAX 3800
MEAN 2056
STD DEV 529.5
MIN 27.29
MAX 342.3
MEAN 113.0
STD DEV 64.23
MIN 9.881
MAX 46.04
MEAN 23.83
STD DEV 6.770
MIN 17.60
MAX 87.77
MEAN 47.50
STD DEV 13.58
MIN 6.652
MAX 23.77
MEAN 14.41
STD DEV 4.131
MIN -745.4
MAX 412.6
MEAN -299.7
STD DEV 220.9
MIN 227.6
MAX 778.1
MEAN 434.5
STD DEV 89.64
LINE 1007

LINE 1008
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78309

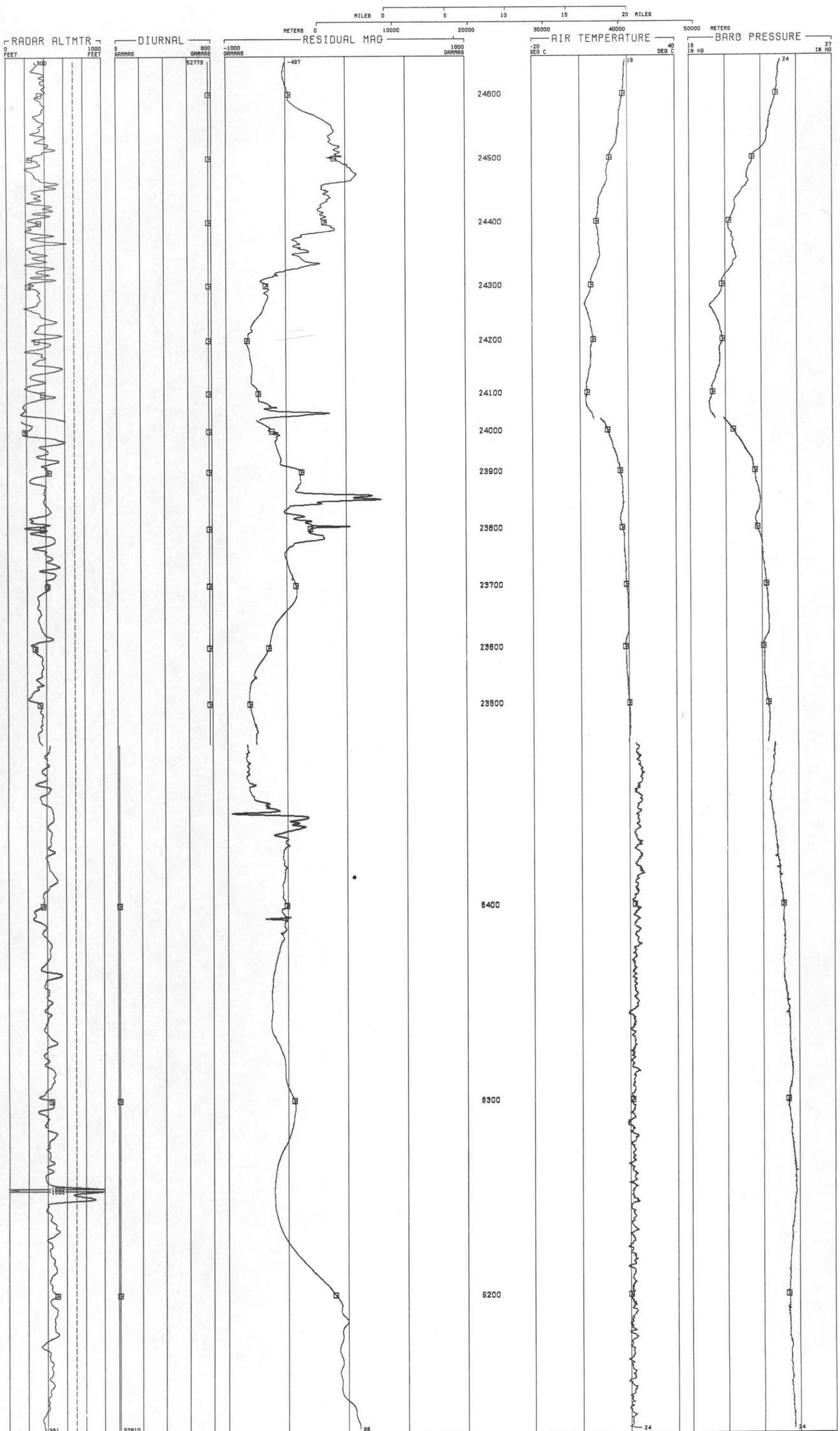
LINE 1009
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78306

LINE 1010
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78306

LINE 24
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78290



LINE 25
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78290



RADAR ALTMTR FEET
MIN 144.9
MAX 1089
MEAN 381.7
STD DEV 92.58

DIURNAL GAMMAS
MIN 52773
MAX 52810
MEAN 52788
STD DEV 10.22

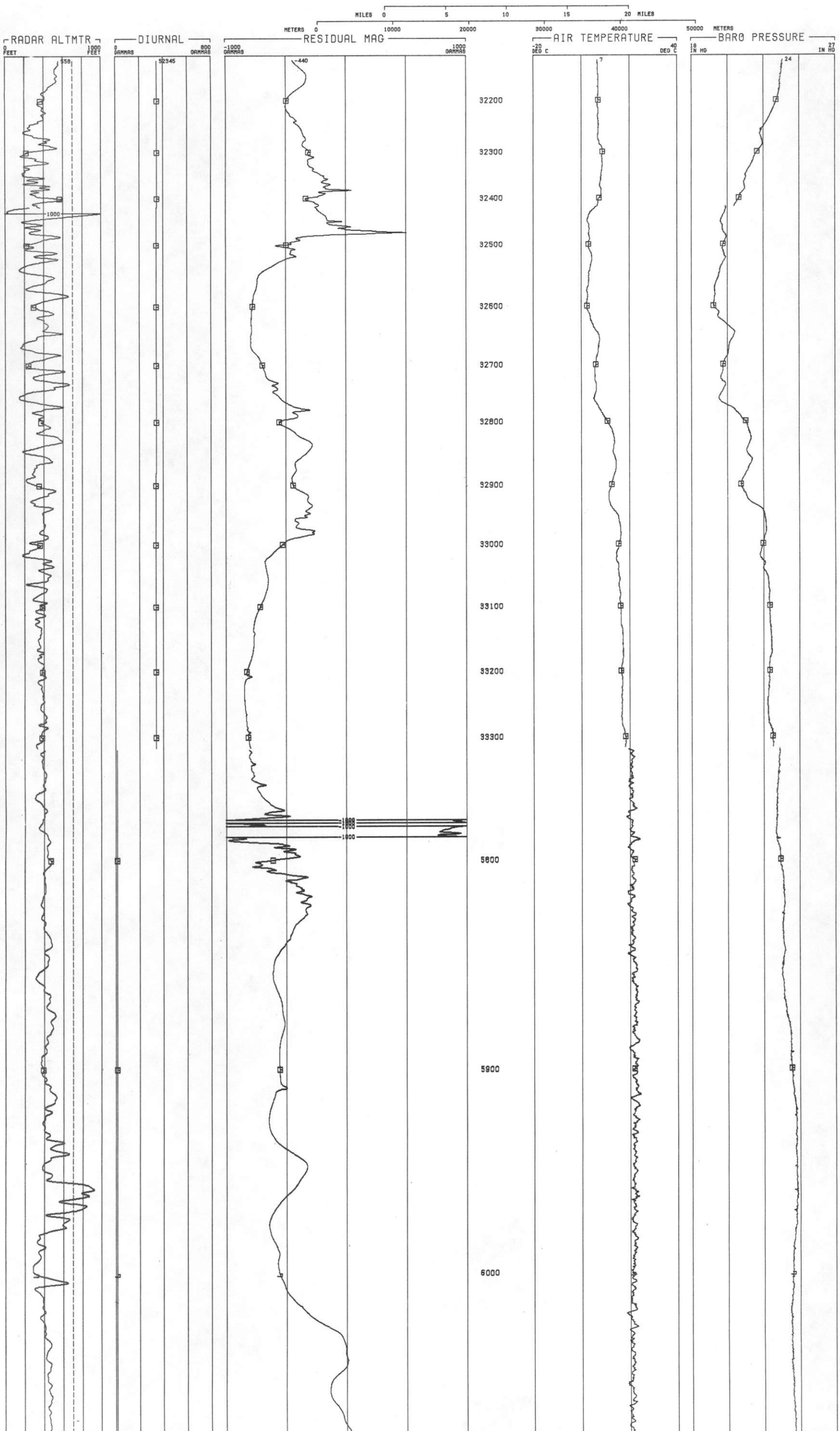
RESIDUAL MAG GAMMAS
MIN -965.5
MAX 98.13
MEAN -282.1
STD DEV 247.7

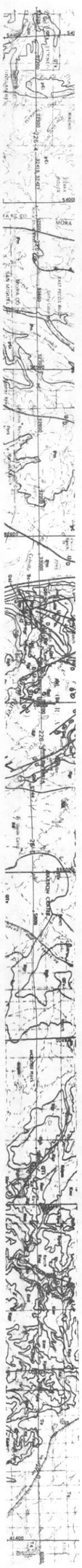
AIR TEMPERATURE DEG C
MIN 1.977
MAX 26.28
MEAN 14.07
STD DEV 6.618

BARØ PRESSURE IN HG
MIN 19.23
MAX 24.65
MEAN 22.52
STD DEV 1.564

LINE 25

LINE 26
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78290





RADAR ALTMTR FEET
MIN 145.2
MAX 1253
MEAN 404.2
STD DEV 120.6

DIURNAL GAMMAS
MIN 52396
MAX 52811
MEAN 52611
STD DEV 225.8

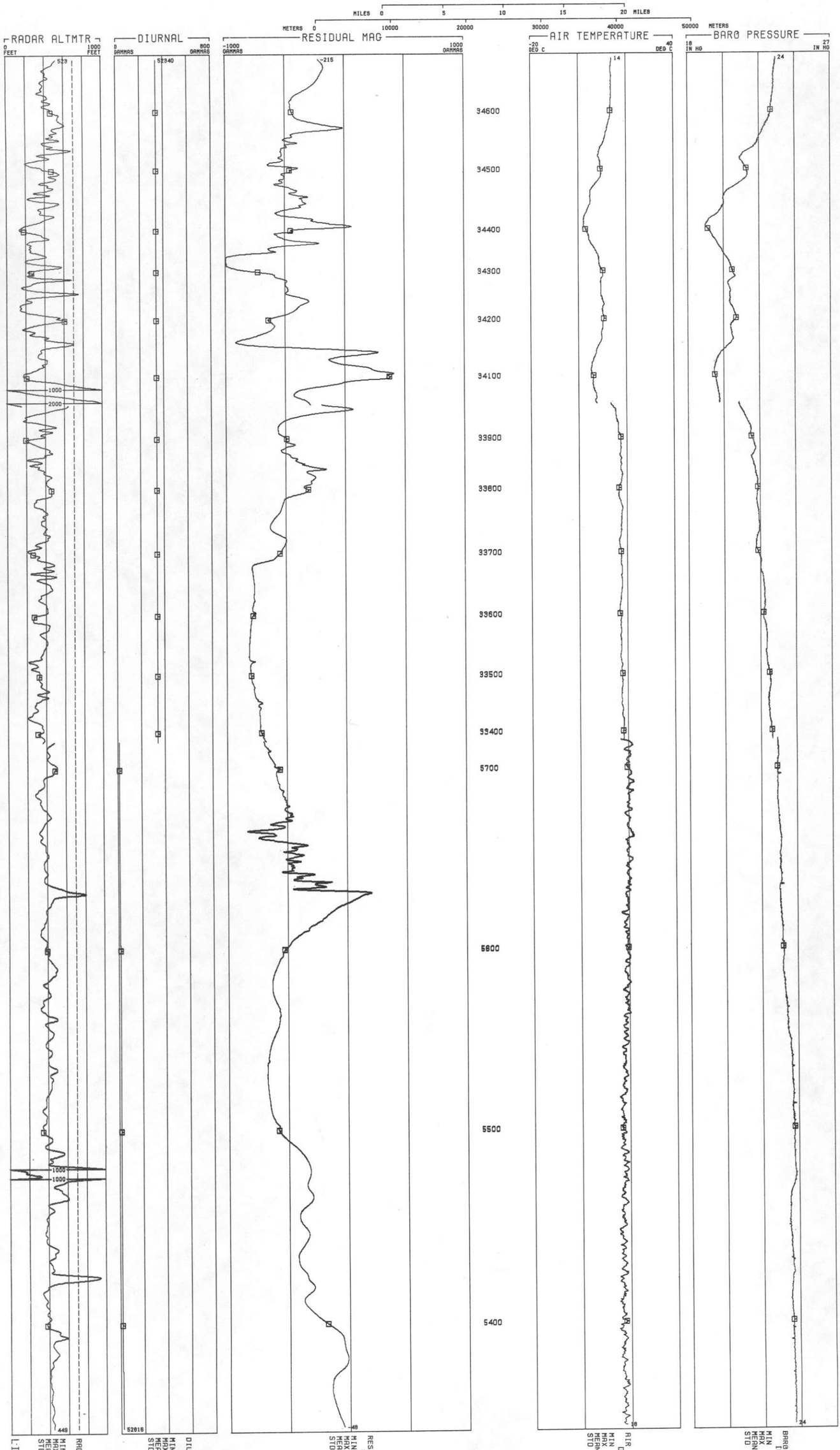
RESIDUAL MAG GAMMAS
MIN -1243
MAX 505.1
MEAN -550.8
STD DEV 292.8

AIR TEMPERATURE DEG C
MIN 2.251
MAX 24.41
MEAN 14.779
STD DEV 6.777

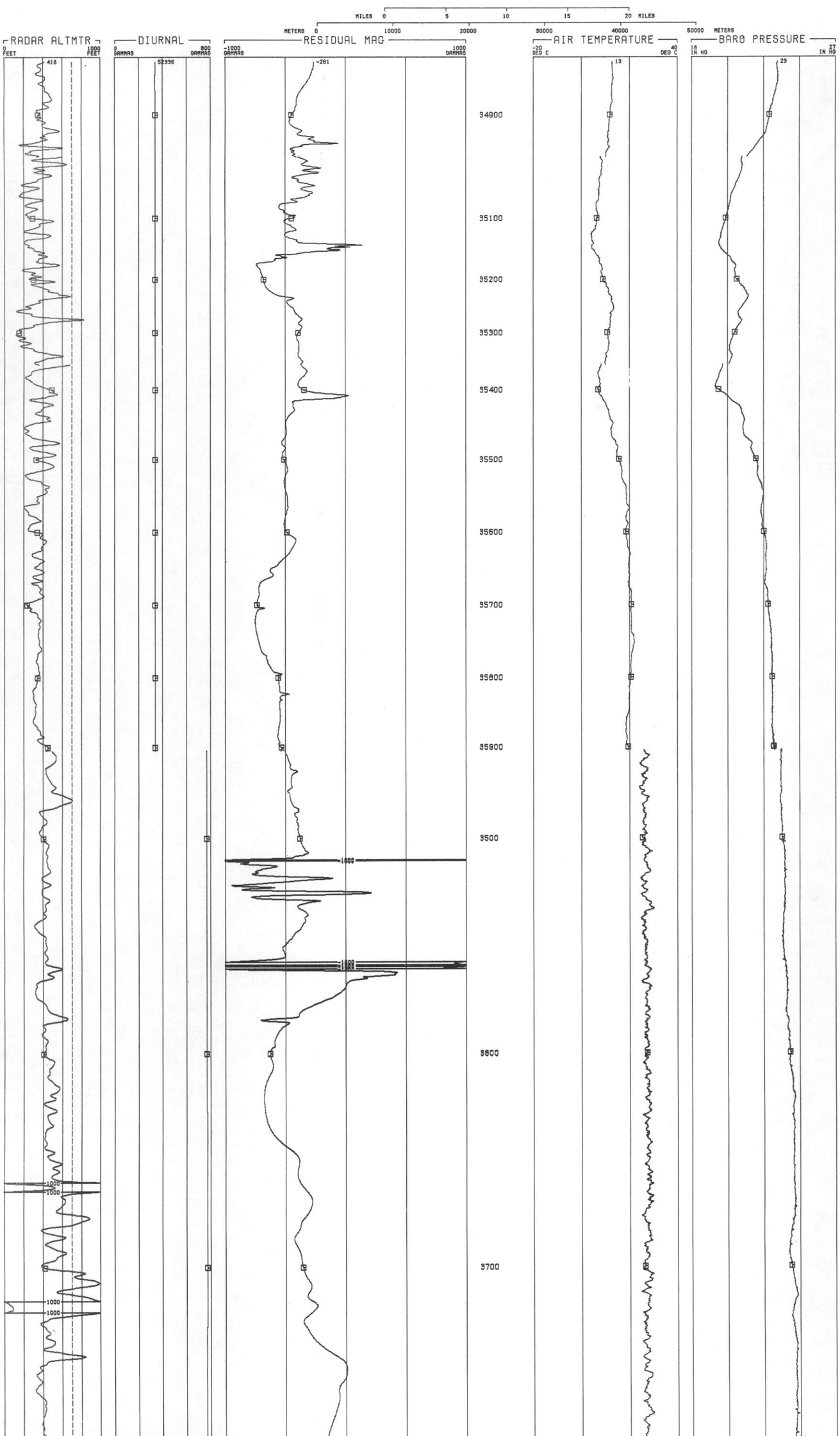
BARØ PRESSURE IN HG
MIN 19.39
MAX 24.81
MEAN 22.54
STD DEV 1.561

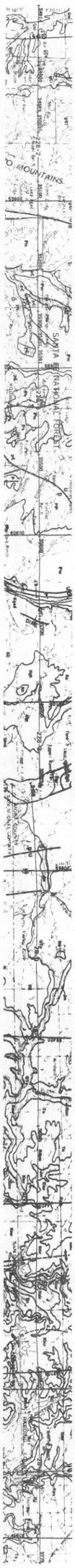
LINE 26

LINE 27
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78290



LINE 28
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289





LINE 28

RADAR ALTMTR FEET
MIN 125.0
MAX 1000.0
MEAN 413.4
STD DEV 140.1

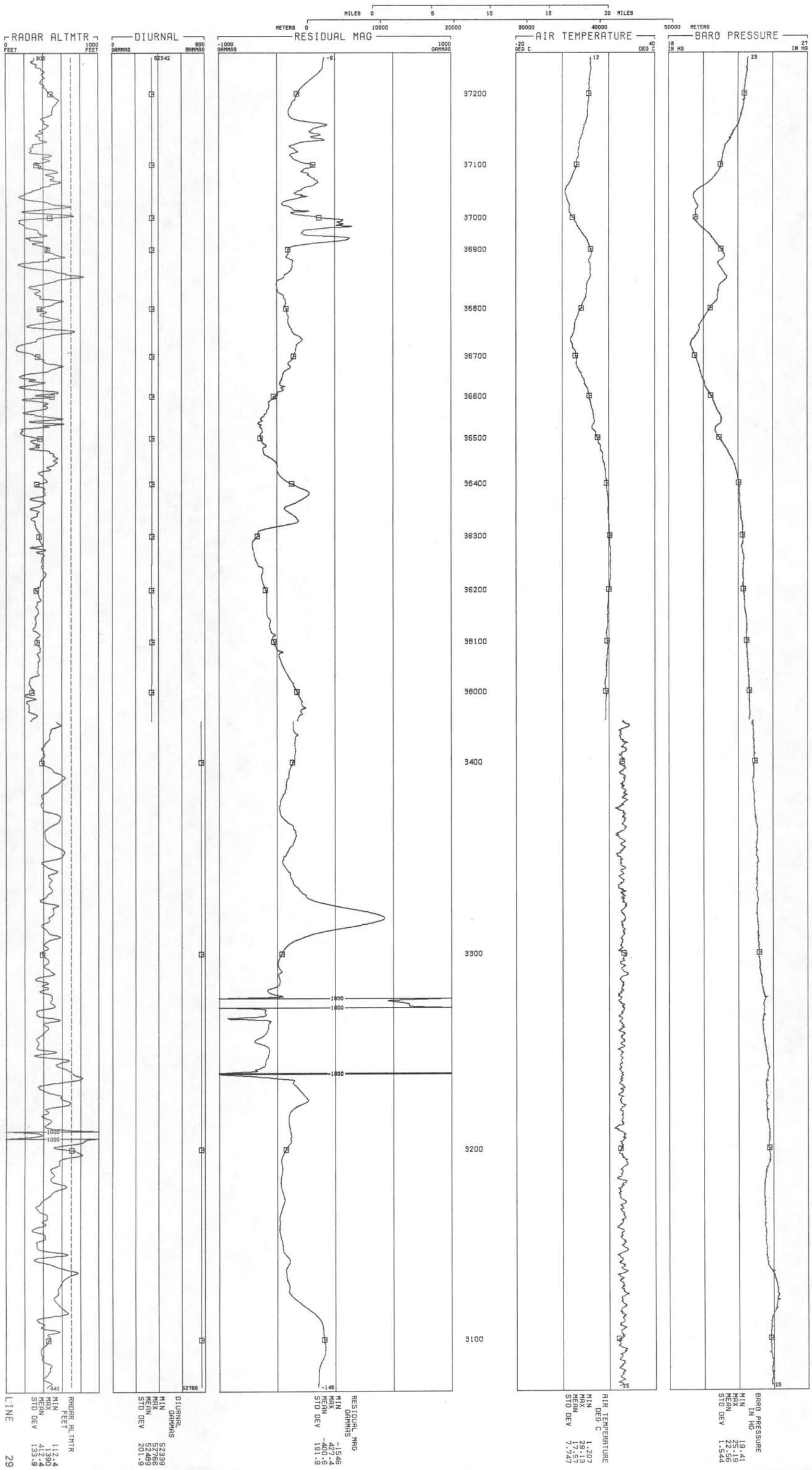
DIURNAL GAMMAS
MIN 52336
MAX 52769
MEAN 52499
STD DEV 207.8

RESIDUAL MAG GAMMAS
MIN -1184
MAX 428.6
MEAN -440.1
STD DEV 182.3

AIR TEMPERATURE DEG C
MIN 4.099
MAX 30.31
MEAN 18.81
STD DEV 7.699

BARØ PRESSURE IN HG
MIN 19.48
MAX 24.66
MEAN 22.88
STD DEV 1.452

LINE 29
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 29

RADAR ALTMTR FEET
MIN 112.4
MAX 1360
MEAN 412.4
STD DEV 133.9

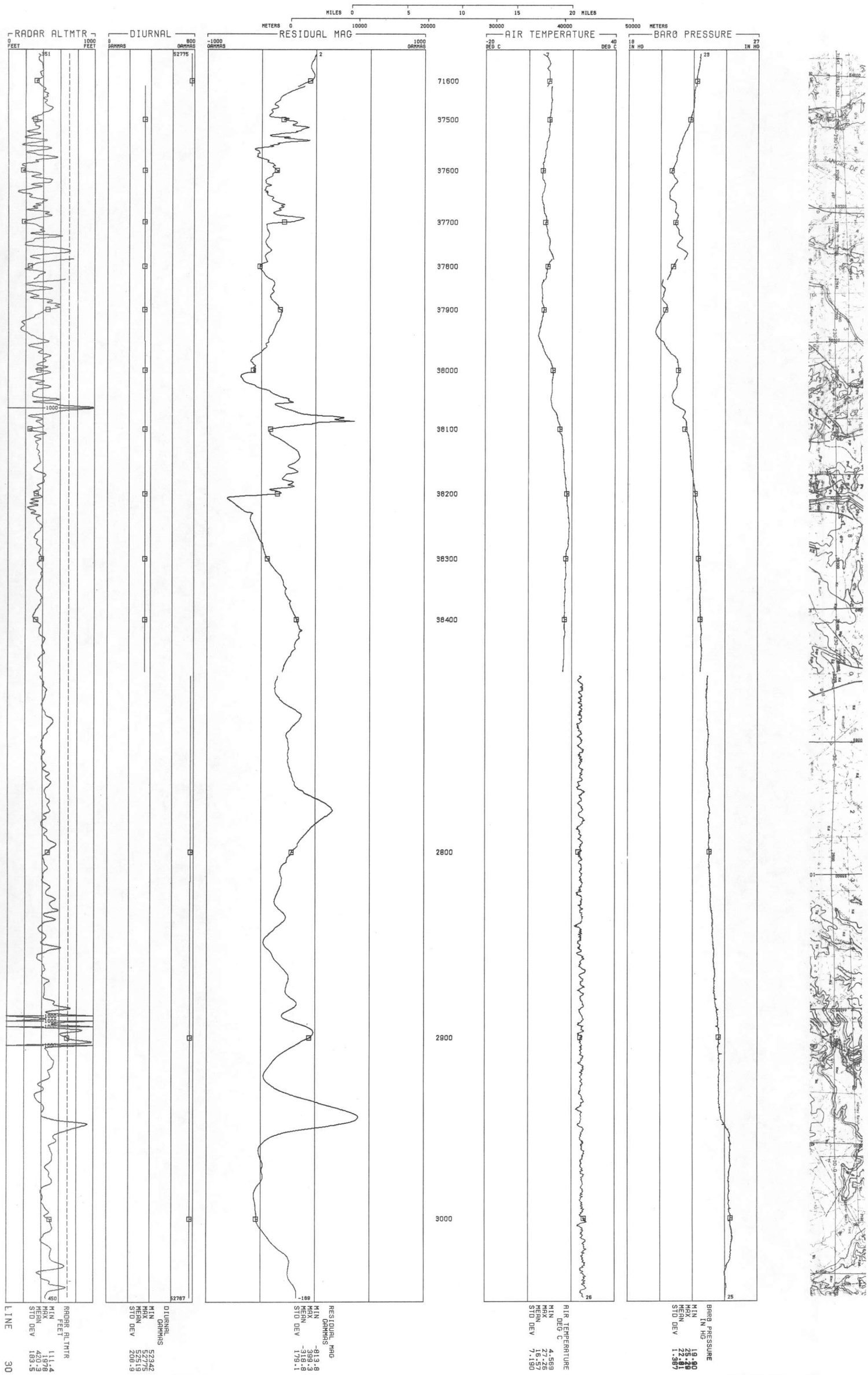
DIURNAL GAMMAS
MIN 52339
MAX 52766
MEAN 52489
STD DEV 201.9

RESIDUAL MAG GAMMAS
MIN -1546
MAX -427.4
MEAN -400.6
STD DEV 191.9

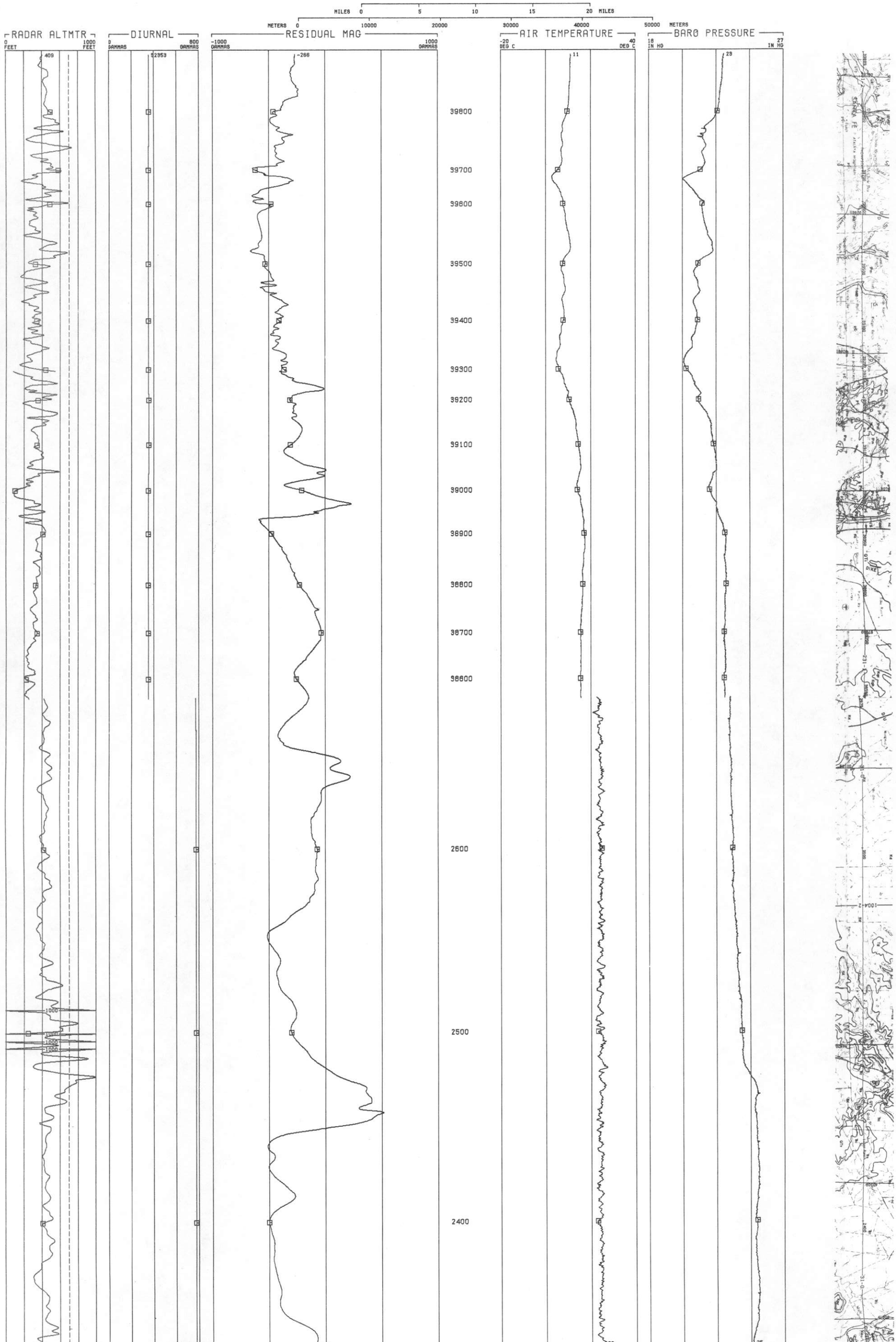
AIR TEMPERATURE DEG C
MIN -1.207
MAX 29.13
MEAN 17.57
STD DEV 7.747

BARØ PRESSURE IN HG
MIN 19.41
MAX 22.58
MEAN 21.05
STD DEV 1.544

LINE 30
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 31
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289



LINE 32
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289

BARO PRESSURE
IN HG
MIN 20.44
MAX 25.51
MEAN 23.19
STD DEV 1.271

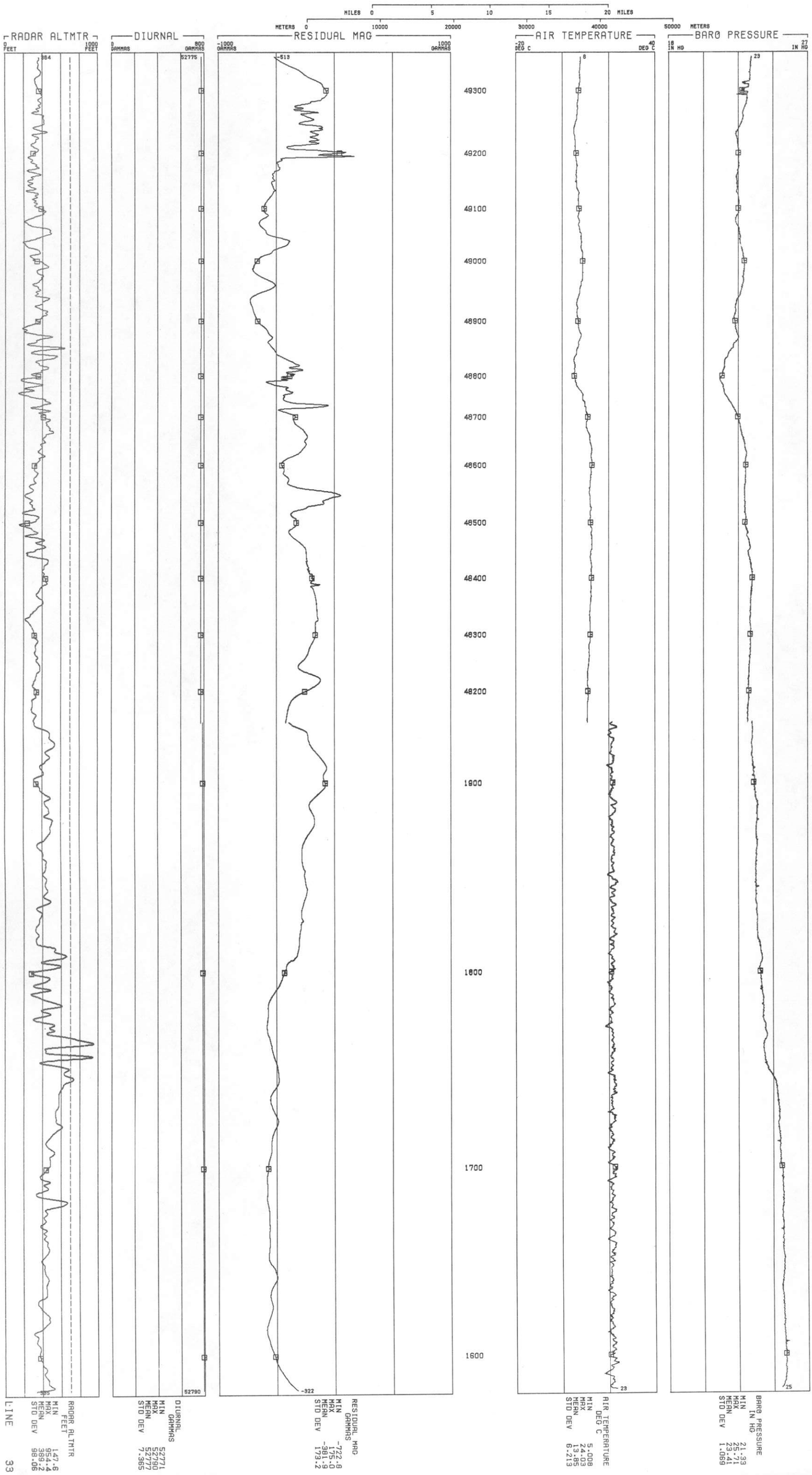
AIR TEMPERATURE
DEG C
MIN 2.125
MAX 25.60
MEAN 13.44
STD DEV 7.719

RESIDUAL MAG
GAMMAS
MIN -852.9
MAX 2259
MEAN -311.8
STD DEV 264.4

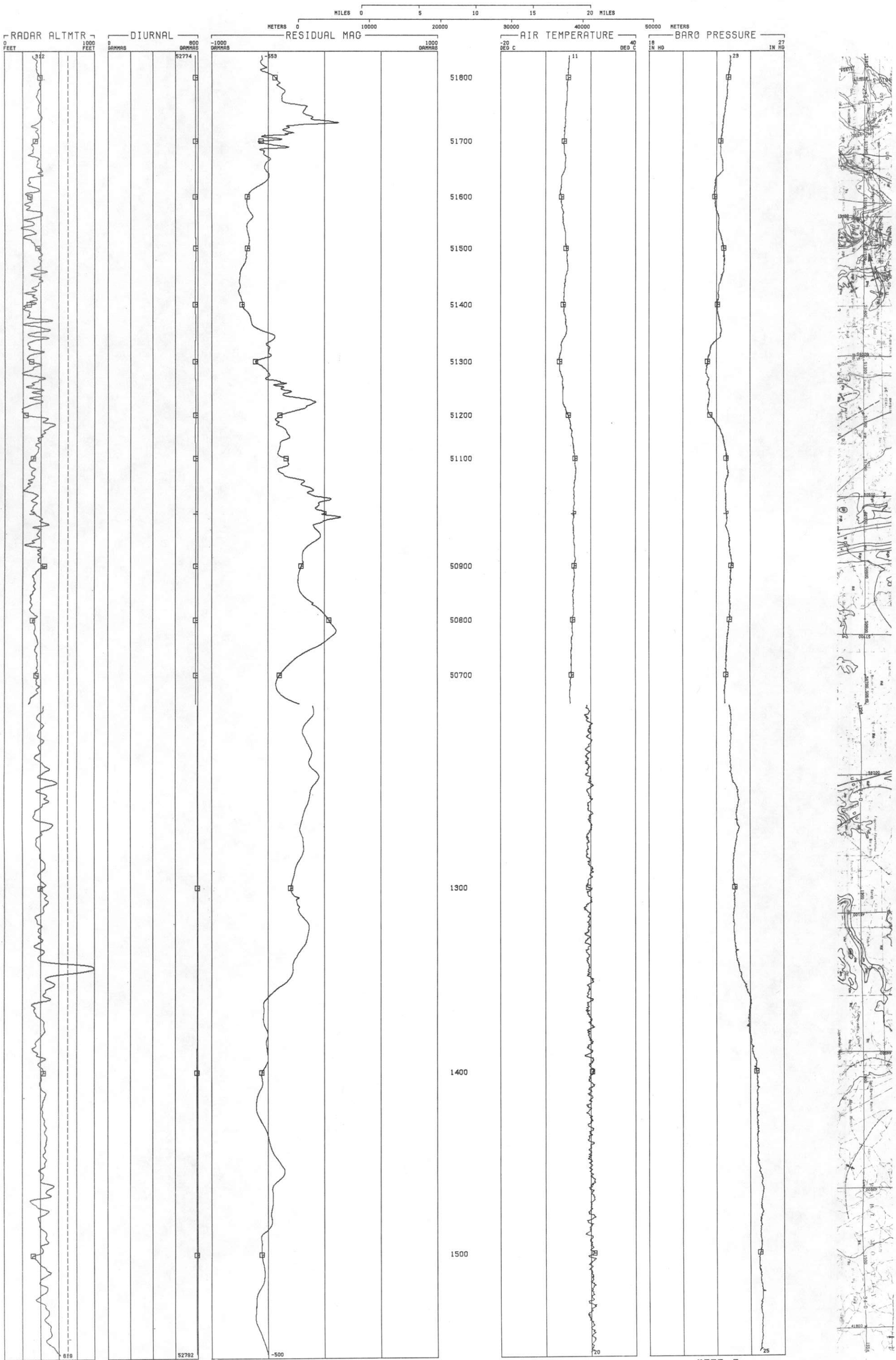
DIURNAL
GAMMAS
MIN 52774
MAX 52782
MEAN 52777
STD DEV 2.537

RADAR ALTMTR
FEET
MIN 115.1
MAX 1021
MEAN 402.5
STD DEV 114.6

LINE 33
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 34
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 34

RADAR ALTMTR FEET
MIN 184.8
MAX 1860.0
MEAN 998.9
STD DEV 82.75

DIURNAL GAMMAS
MIN 52774
MAX 52796
MEAN 52782
STD DEV 7.867

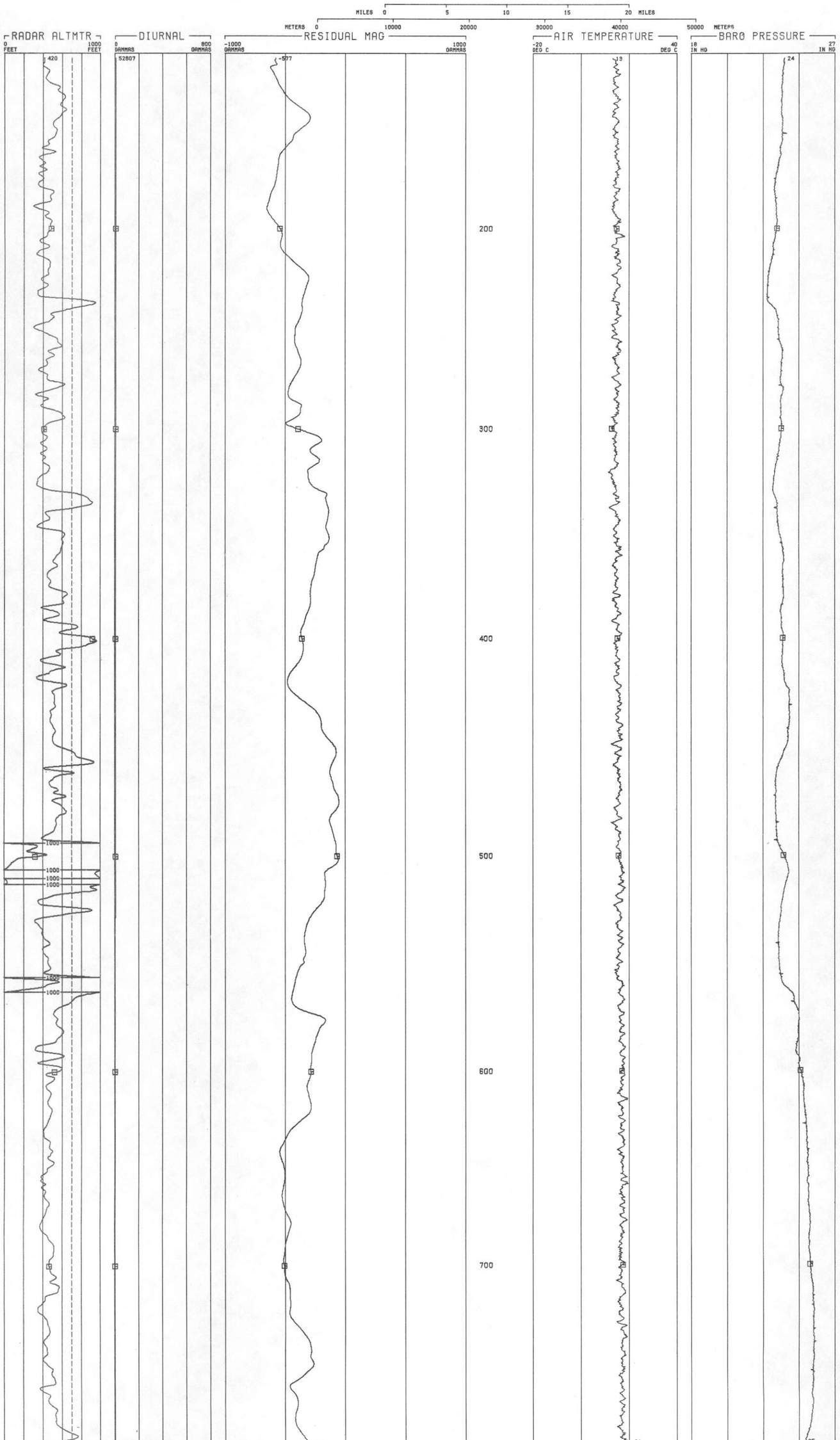
RESIDUAL MAG GAMMAS
MIN -761.3
MAX 145.2
MEAN -377.6
STD DEV 214.0

AIR TEMPERATURE DEG C
MIN 5.948
MAX 22.47
MEAN 13.71
STD DEV 4.970

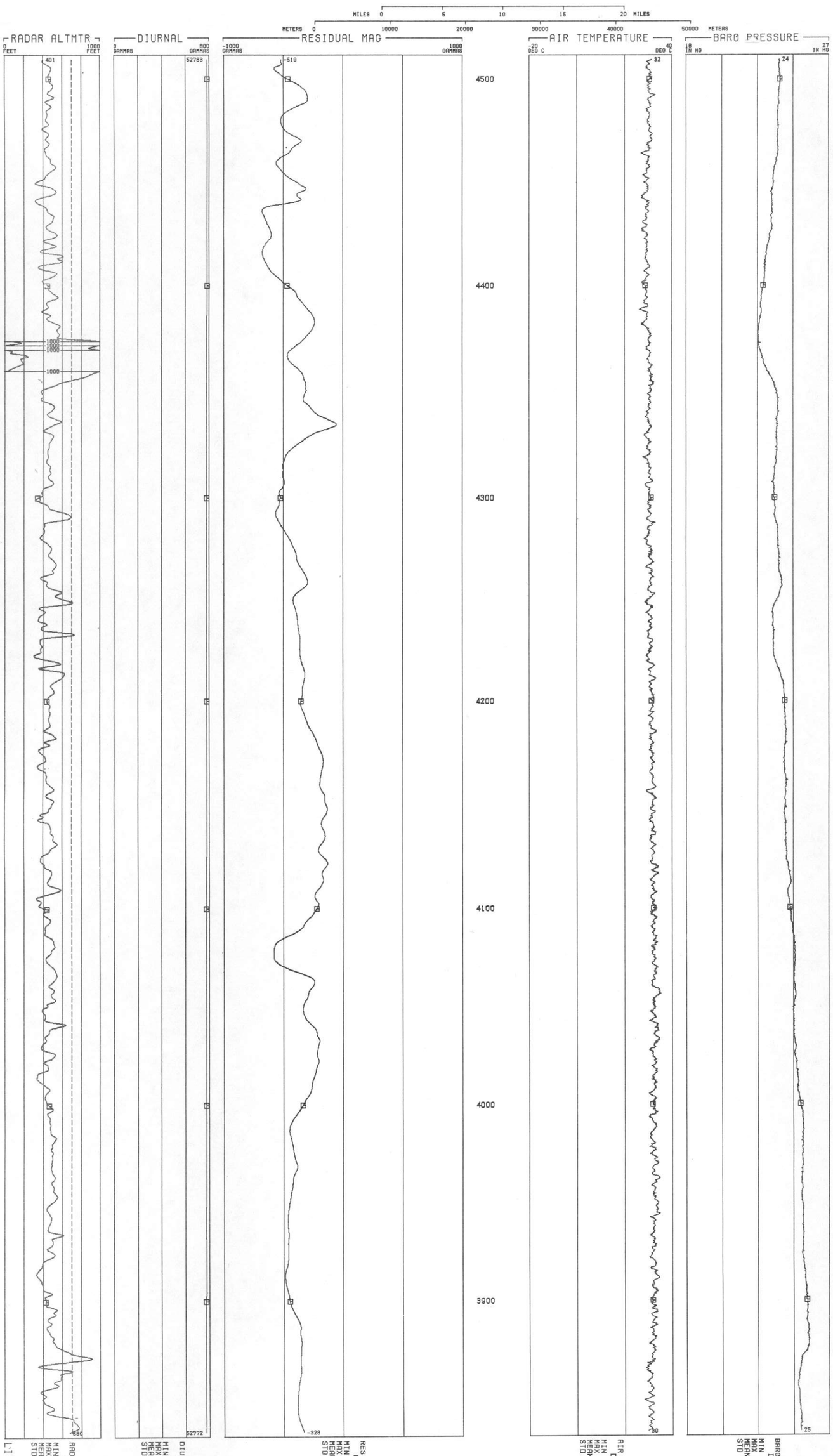
BARO PRESSURE IN HG
MIN 21.80
MAX 25.26
MEAN 23.99
STD DEV 1.032

LINE 35
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78289

LINE 36
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 37
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78289



LINE 37

RADAR ALTMTR FEET
MIN 305.4
MAX 1000
MEAN 482.48
STD DEV 122.5

DIURNAL GAMMAS
MIN 52771
MAX 52783
MEAN 52777
STD DEV 3.369

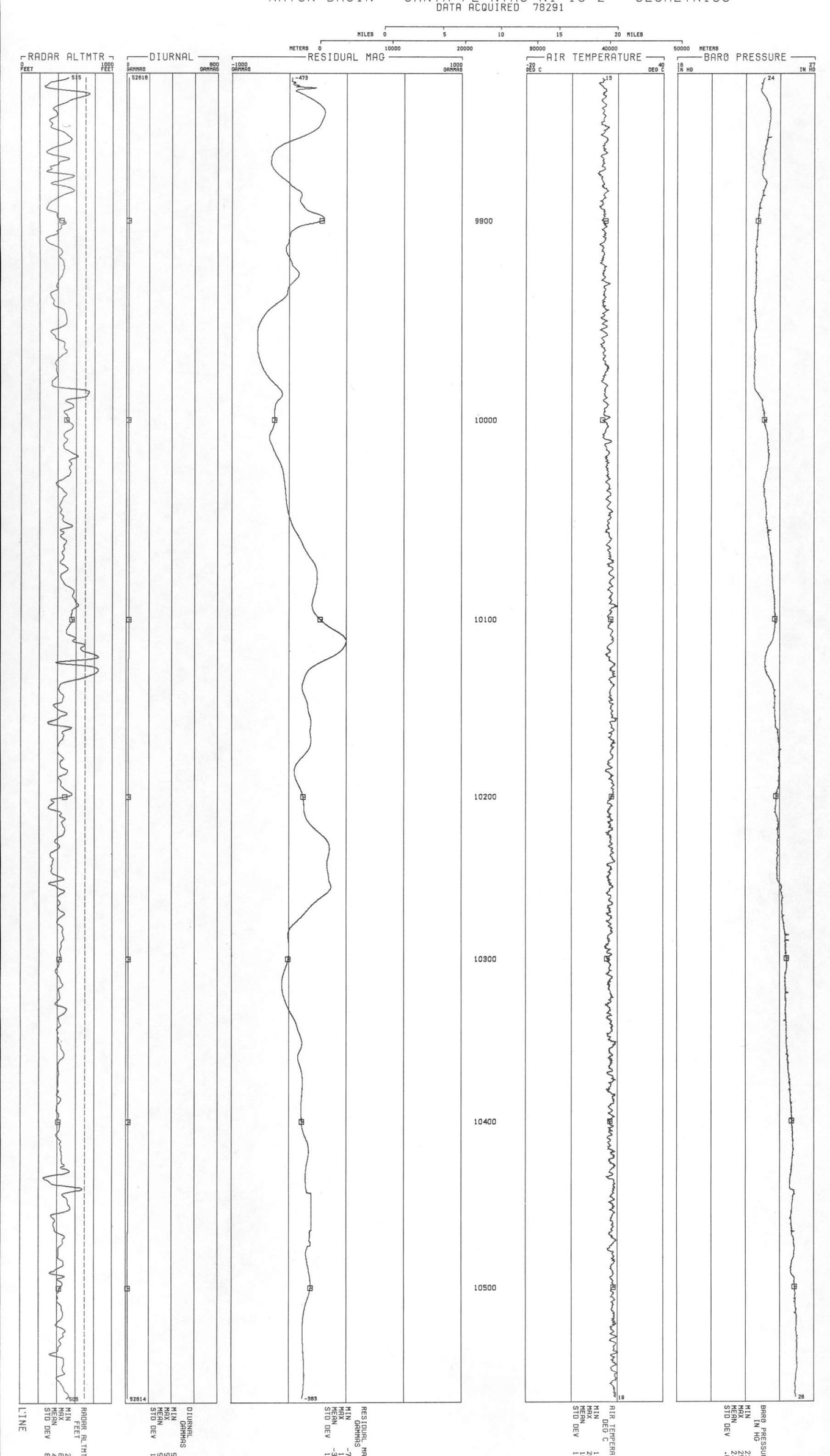
RESIDUAL MAG GAMMAS
MIN -676.1
MAX -519.55
MEAN -598.7
STD DEV 125.6

AIR TEMPERATURE DEG C
MIN 26.48
MAX 35.29
MEAN 31.31
STD DEV 1.356

BARØ PRESSURE IN HG
MIN 22.50
MAX 25.75
MEAN 24.30
STD DEV .6321

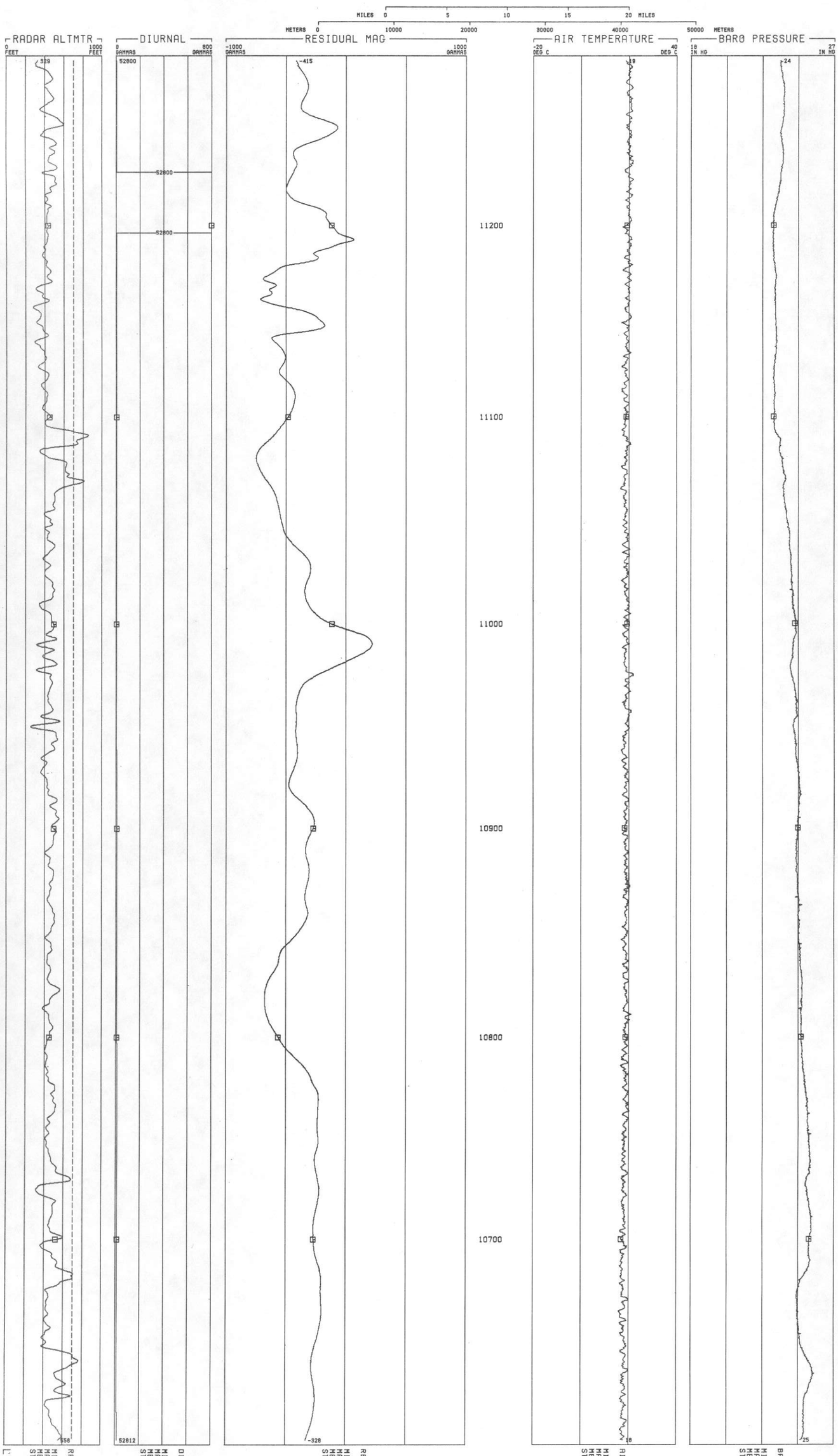
LINE 38
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78290

LINE 39
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



505F

LINE 40
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



LINE 40

RADAR ALTMTR FEET
MIN 257.6
MAX 465.5
MEAN 465.5
STD DEV 80.432

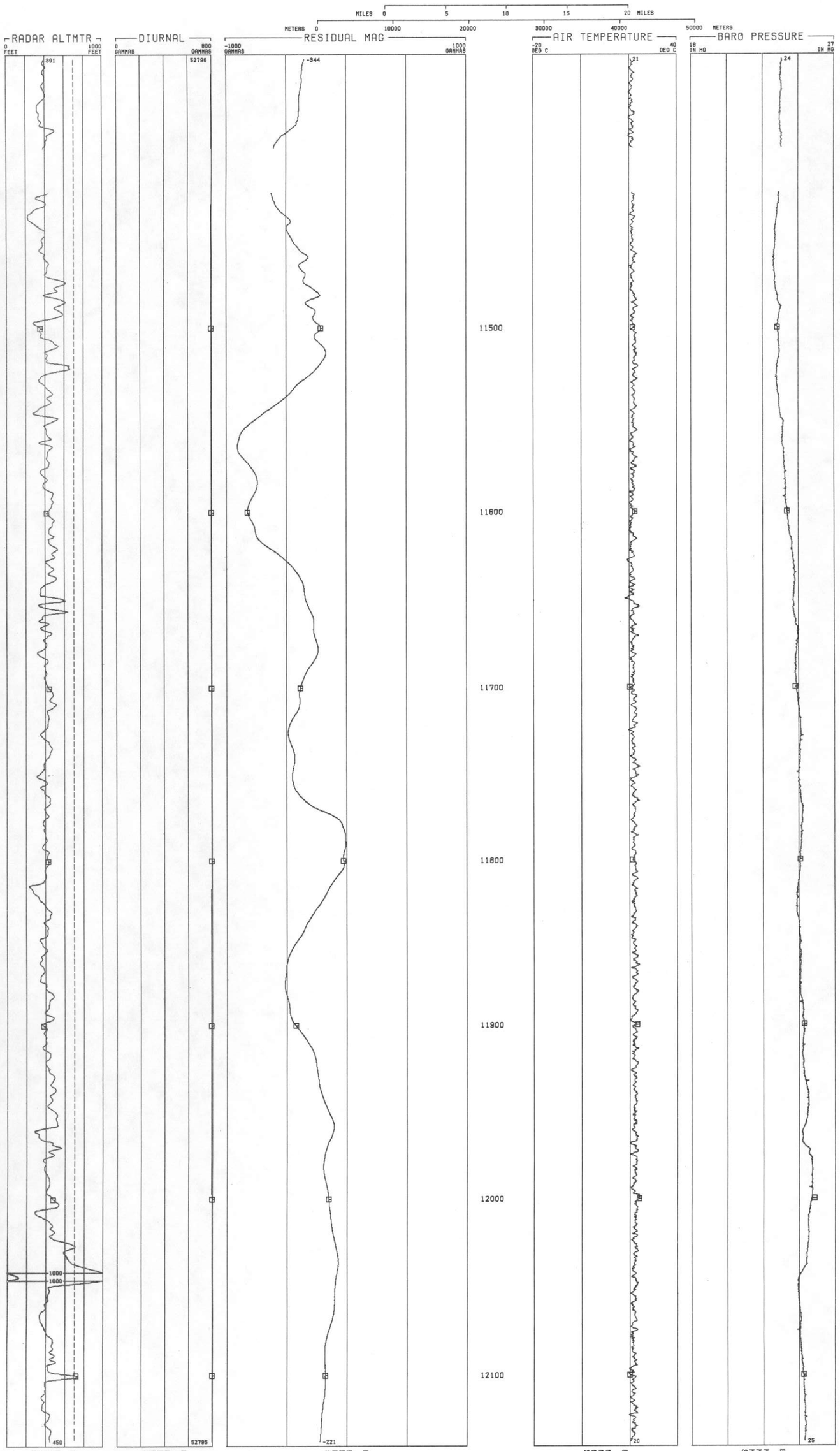
DIURNAL GAMMAS
MIN 52800
MAX 52812
MEAN 52805
STD DEV 3.799

RESIDUAL MAG GAMMAS
MIN -748.4
MAX -222.3
MEAN -350.5
STD DEV 173.3

AIR TEMPERATURE DEG C
MIN 15.03
MAX 18.77
MEAN 18.85
STD DEV 1.029

BARØ PRESSURE IN HG
MIN 23.15
MAX 25.78
MEAN 24.43
STD DEV .7441

LINE 41
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



LINE 41

RADAR ALTMTR FEET
MIN 223.0
MAX 1000
MEAN 430.9
STD DEV 90.80

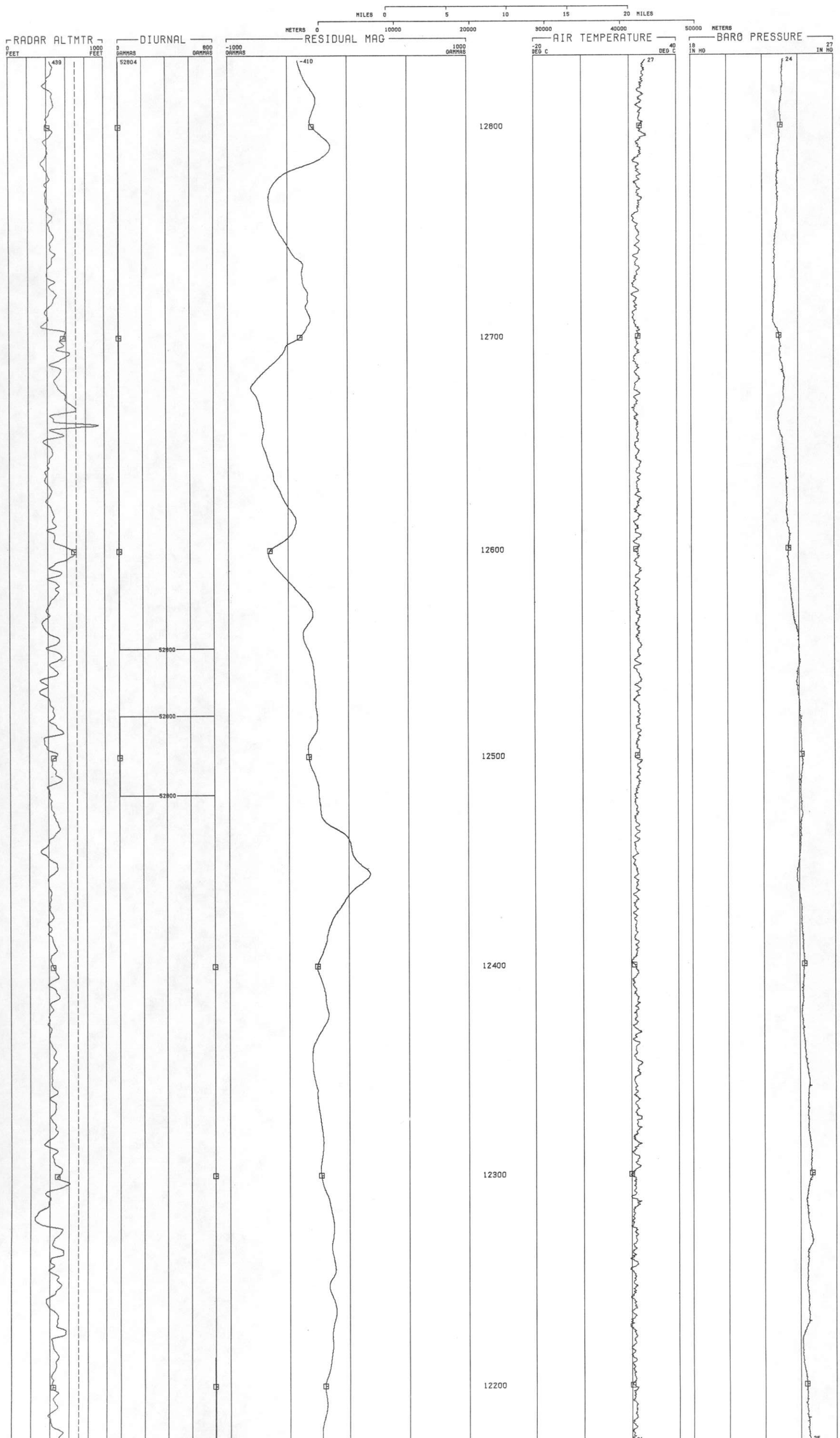
DIURNAL GAMMAS
MIN 52791
MAX 52796
MEAN 52792
STD DEV 1.337

RESIDUAL MAG GAMMAS
MIN -905.7
MAX -5.795
MEAN -337.5
STD DEV 209.0

AIR TEMPERATURE DEG C
MIN 18.38
MAX 24.43
MEAN 21.89
STD DEV .8518

BARØ PRESSURE IN HG
MIN 23.18
MAX 25.74
MEAN 24.33
STD DEV .8588

LINE 42
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



LINE 42

RADAR ALTMTR FEET
MIN 245.1
MAX 697.2
MEAN 449.4
STD DEV 65.33

DIURNAL GAMMAS
MIN 52795
MAX 52804
MEAN 52800
STD DEV 2.427

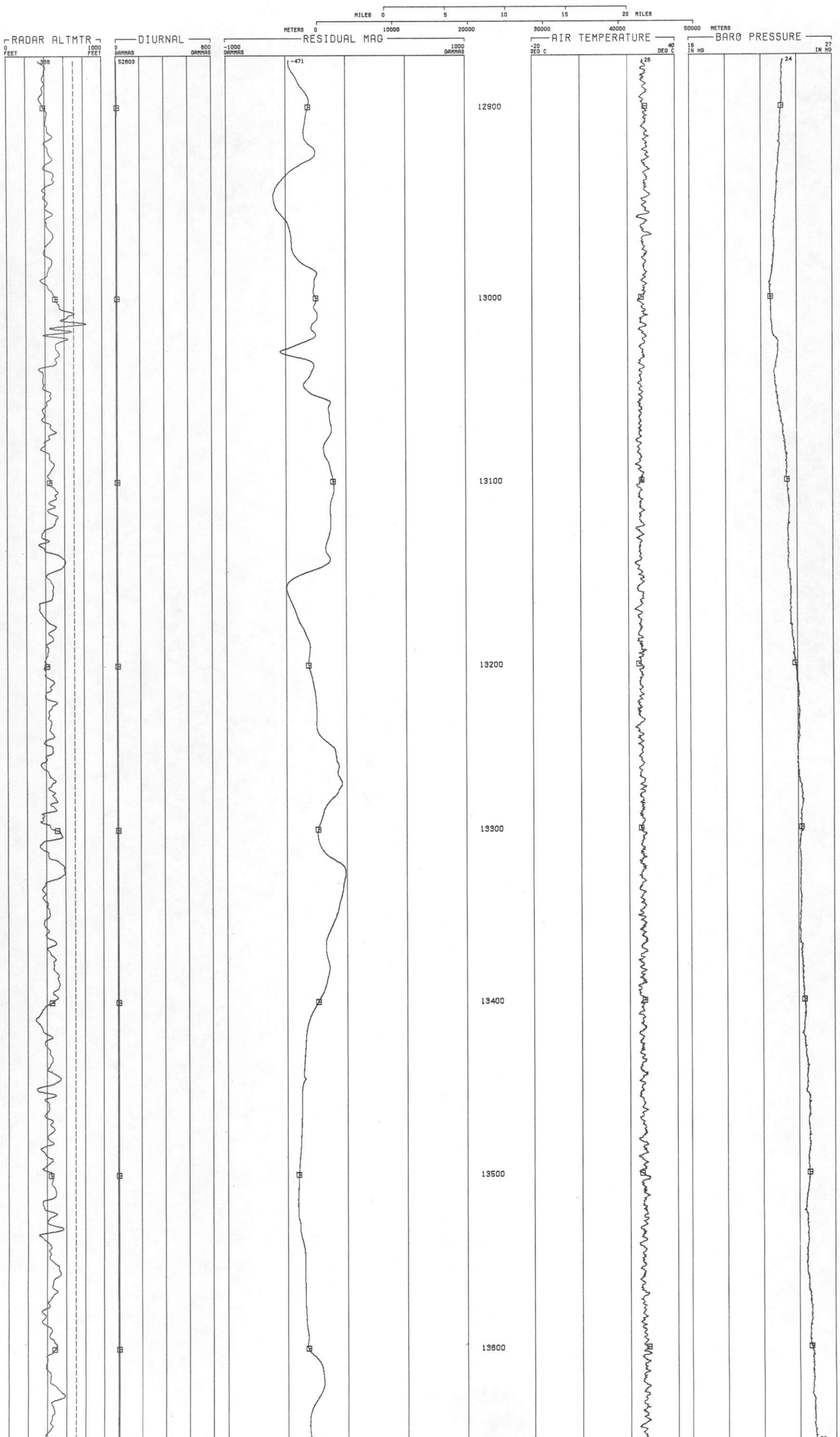
RESIDUAL MAG GAMMAS
MIN -809.1
MAX 183.0
MEAN -314.1
STD DEV 195.7

AIR TEMPERATURE DEG C
MIN 19.42
MAX 27.46
MEAN 22.81
STD DEV 1.283

BARØ PRESSURE IN HG
MIN 23.15
MAX 24.59
MEAN 24.51
STD DEV .7037

535F

LINE 43
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78291



RADAR ALTMTR FEET
MIN 287.8
MAX 831.8
MEAN 443.6
STD DEV 62.17

DIURNAL GAMMAS
MIN 52803
MAX 52808
MEAN 52807
STD DEV 1.297

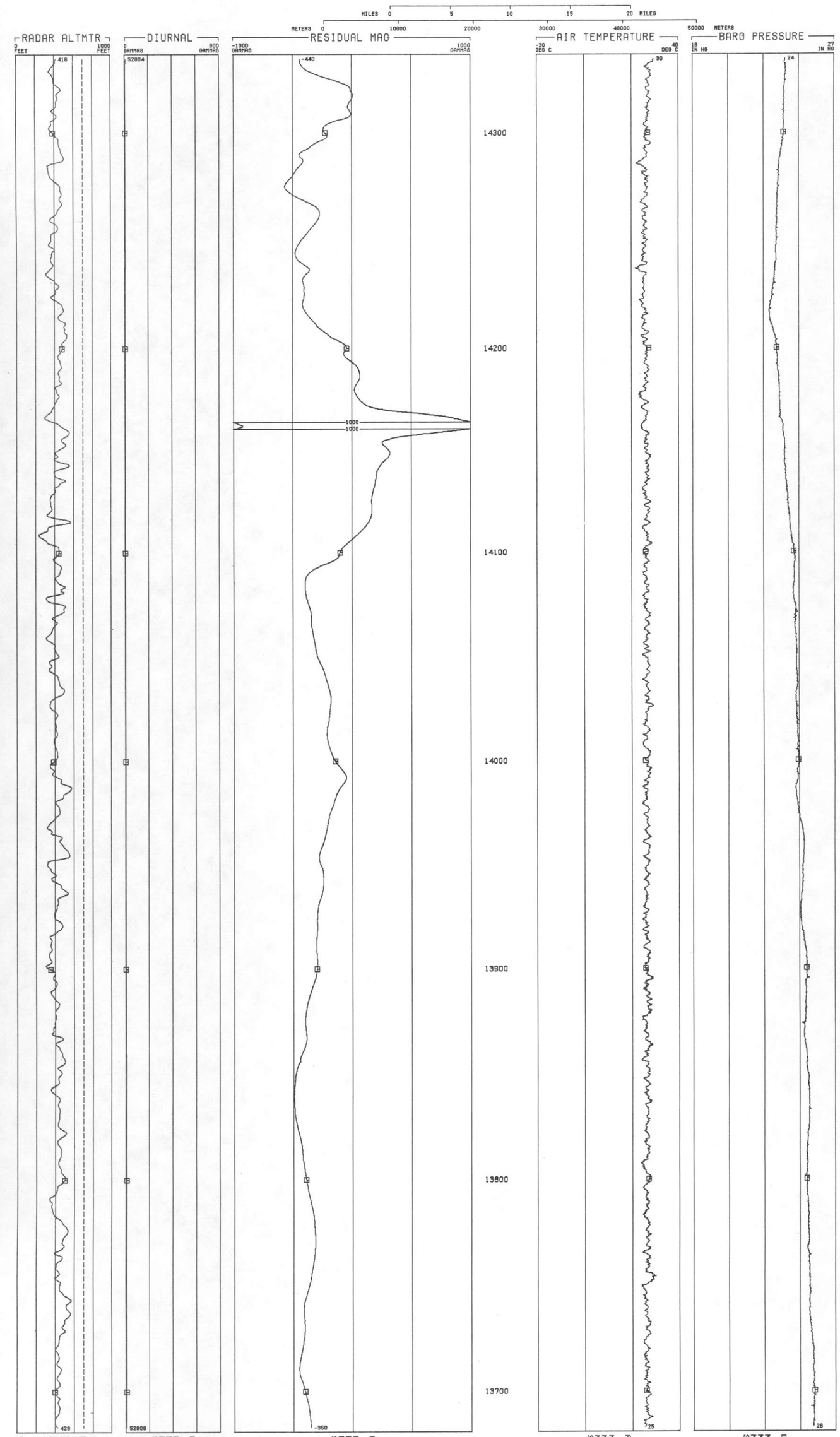
RESIDUAL MAG GAMMAS
MIN -603.8
MAX -8.396
MEAN -274.4
STD DEV 126.9

AIR TEMPERATURE DEG C
MIN 22.95
MAX 30.31
MEAN 26.02
STD DEV 1.040

BARØ PRESSURE IN HG
MIN 23.01
MAX 25.03
MEAN 24.61
STD DEV .7664

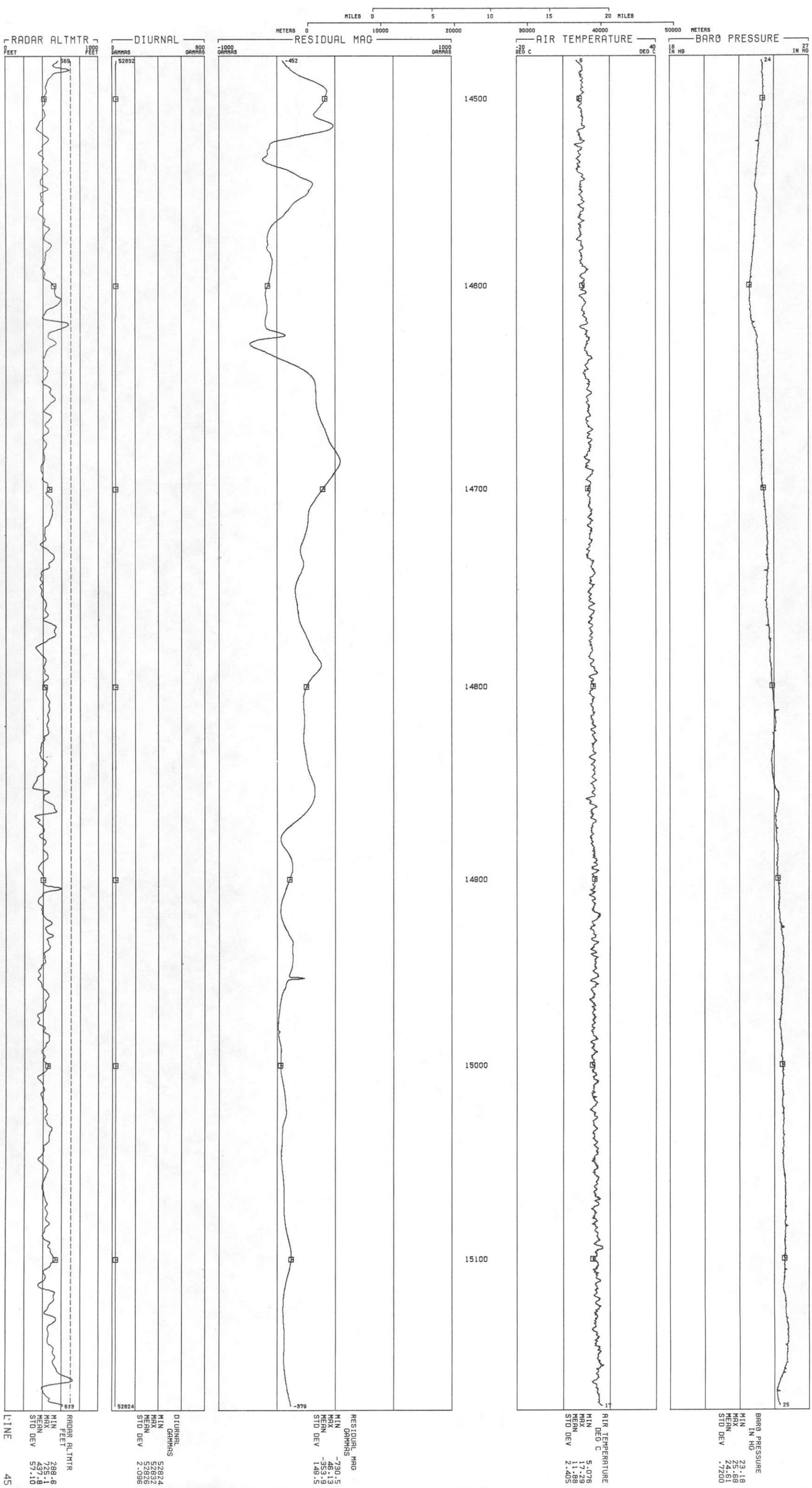
LINE 43

LINE 44
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78291



555F

LINE 45
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78292



RADAR ALTMTR FEET
MIN 288.6
MAX 725.1
MEAN 673.1
STD DEV 57.10

DIURNAL GAMMAS
MIN 52824
MAX 52832
MEAN 52826
STD DEV 2.096

RESIDUAL MAG GAMMAS
MIN -790.5
MAX 480.3
MEAN -353.9
STD DEV 149.5

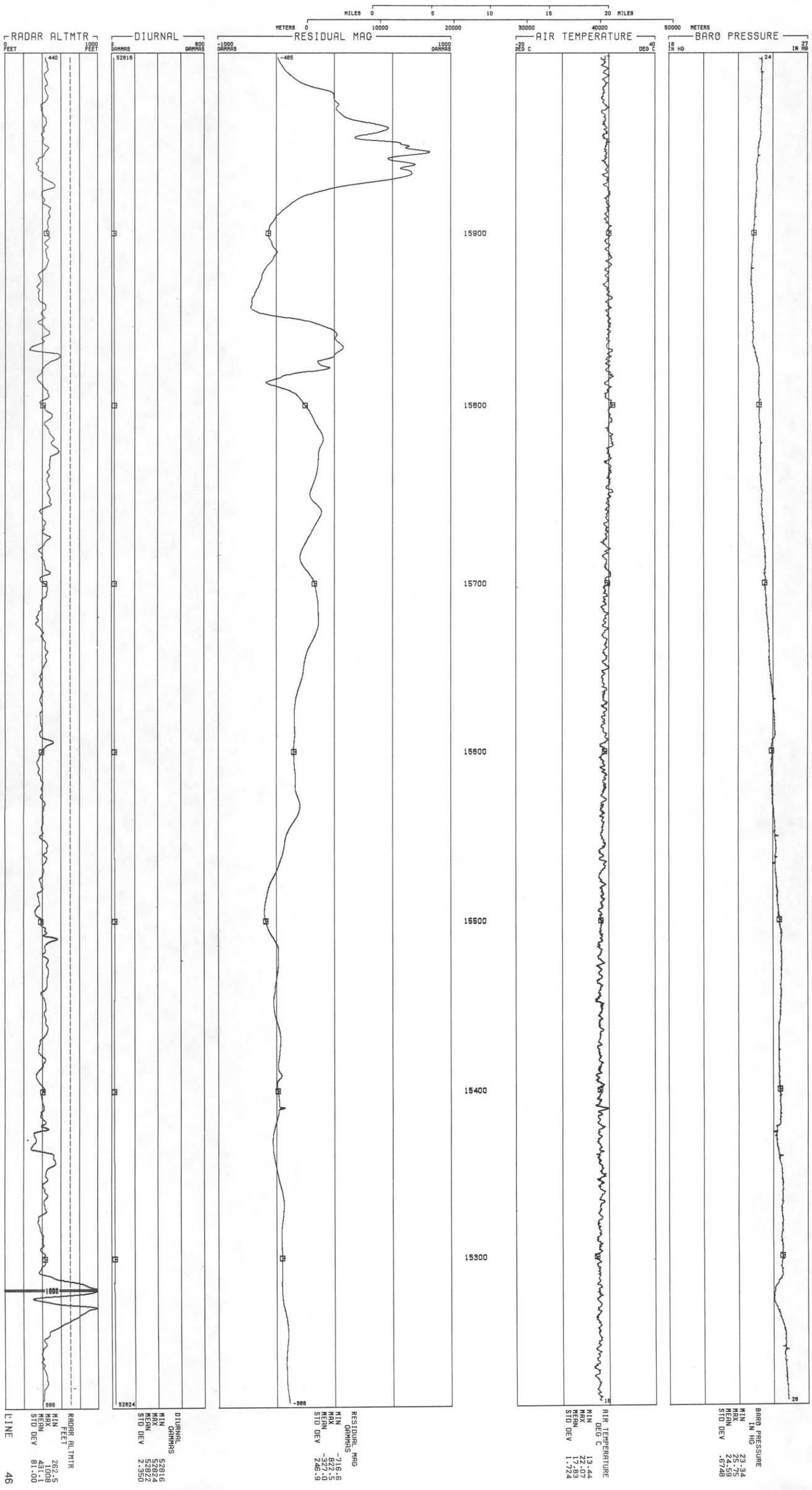
AIR TEMPERATURE DEG C
MIN 5.078
MAX 17.28
MEAN 11.88
STD DEV 2.405

BARØ PRESSURE IN HG
MIN 23.18
MAX 25.68
MEAN 24.61
STD DEV .7200

LINE 45

565F

LINE 46
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78292



LINE 1001
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78303

BARO PRESSURE
IN HG
MIN 23.99
MAX 25.56
MEAN 24.84
STD DEV .4597

AIR TEMPERATURE
DEG C
MIN 8.078
MAX 18.63
MEAN 14.45
STD DEV 3.295

RESIDUAL MAG
GAMMAS
MIN -567.5
MAX 106.2
MEAN -248.2
STD DEV 167.4

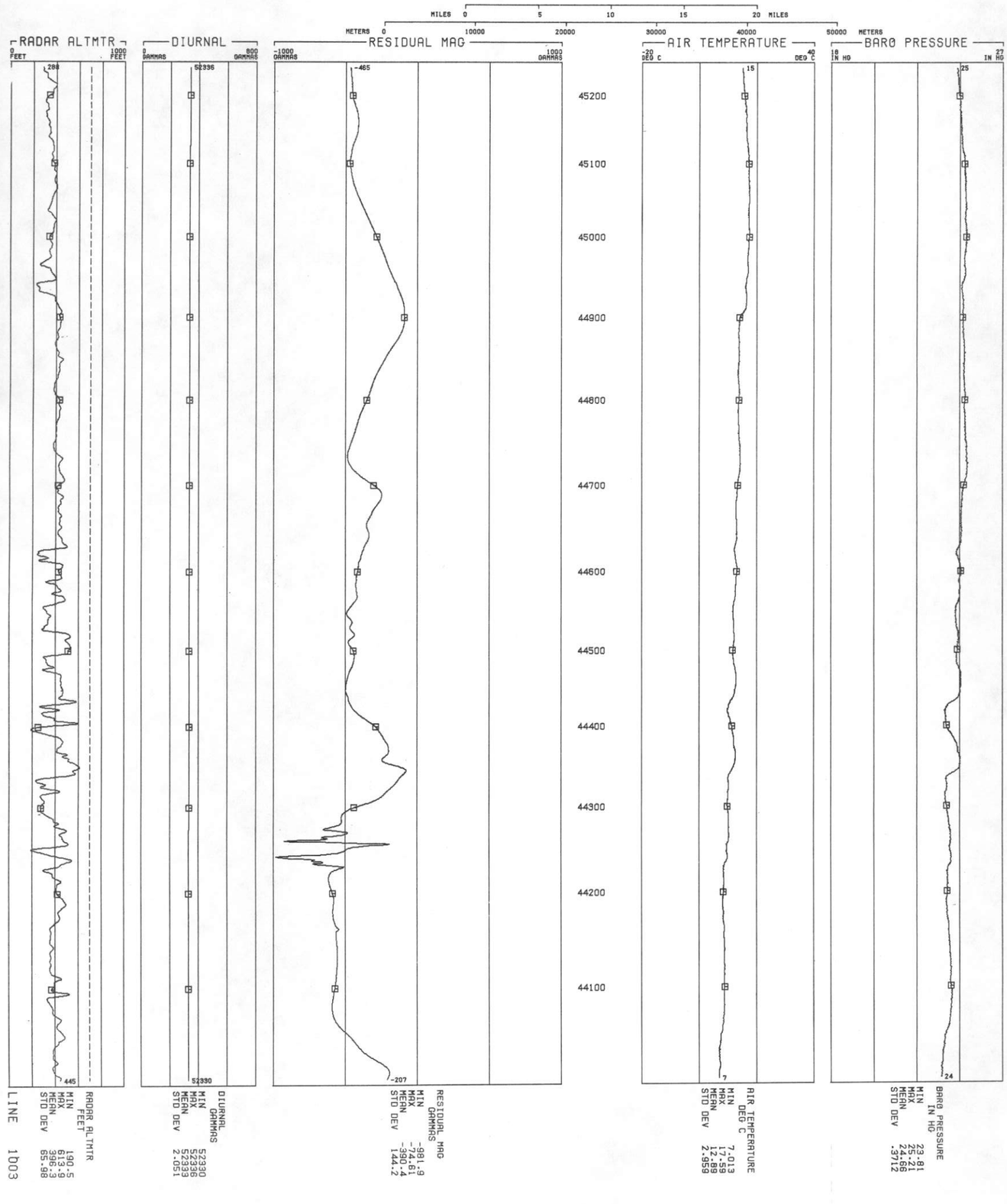
DIURNAL
GAMMAS
MIN 52330
MAX 52334
MEAN 52332
STD DEV 1.178

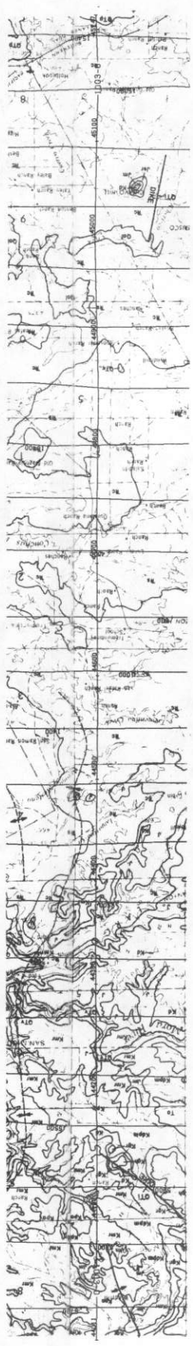
RADAR ALTMTR
FEET
MIN 187.8
MAX 645.8
MEAN 403.2
STD DEV 54.70

LINE 1001

LINE 1002
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78303

LINE 1003
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78303





LINE 1003

RADAR ALTMTR FEET
MIN 190.5
MAX 613.9
MEAN 396.3
STD DEV 65.98

DIURNAL GAMMAS
MIN 52330
MAX 52339
MEAN 52335
STD DEV 2.051

RESIDUAL MAG GAMMAS
MIN -991.9
MAX 1177.1
MEAN -36.14
STD DEV 144.2

AIR TEMPERATURE DEG C
MIN 7.013
MAX 12.69
MEAN 9.869
STD DEV 2.959

BARØ PRESSURE IN HG
MIN 23.81
MAX 25.21
MEAN 24.66
STD DEV .3712

LINE 1004
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78303

LINE 1005
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 7830?

LINE 1006
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78309

BARO PRESSURE
IN HG
MIN 22.27
MAX 24.41
MEAN 23.32
STD DEV .5121

AIR TEMPERATURE
DEG C
MIN 3.943
MAX 8.987
MEAN 6.662
STD DEV .9375

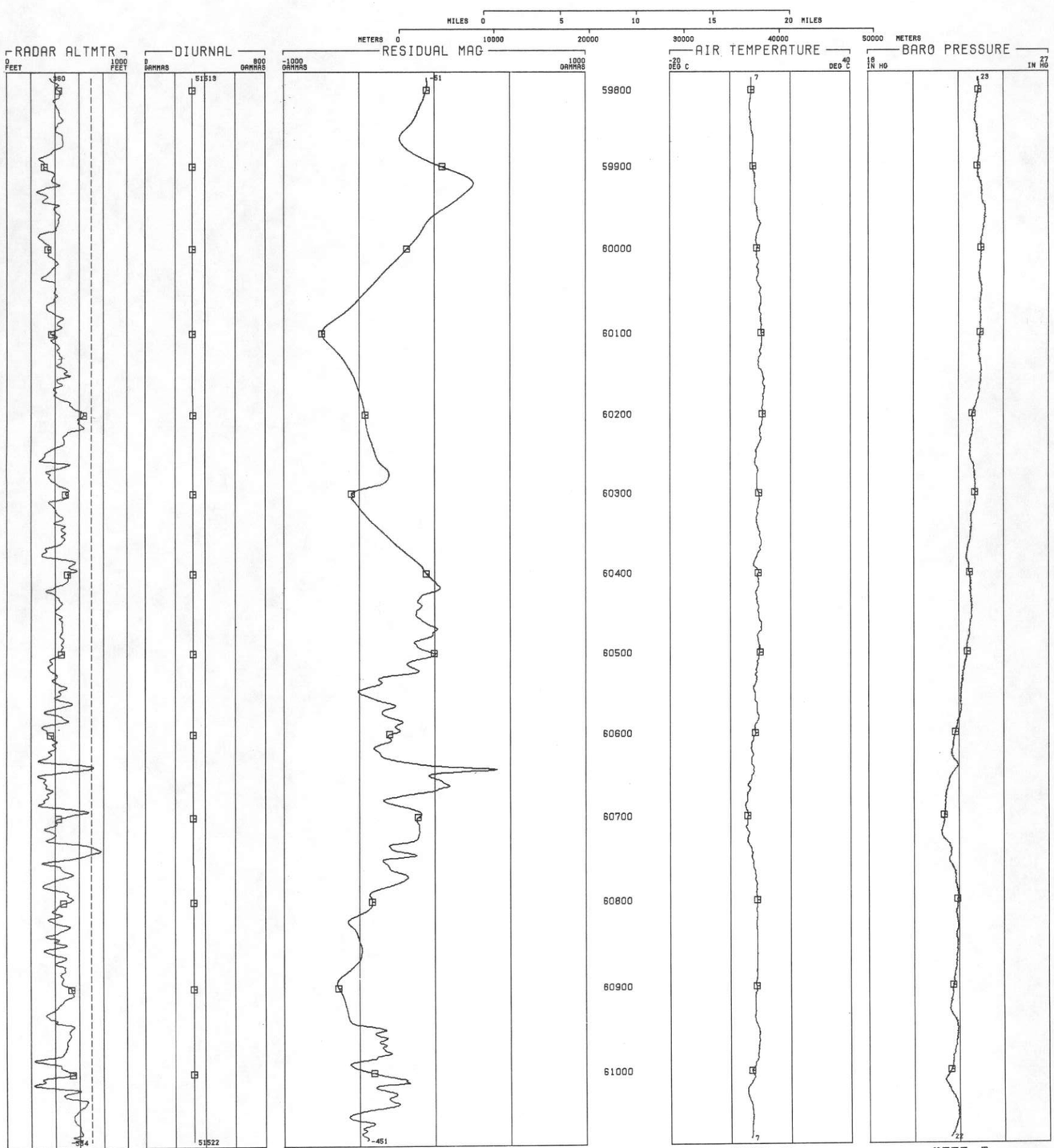
RESIDUAL MAG
GAMMAS
MIN -919.8
MAX 183.0
MEAN -364.0
STD DEV 241.6

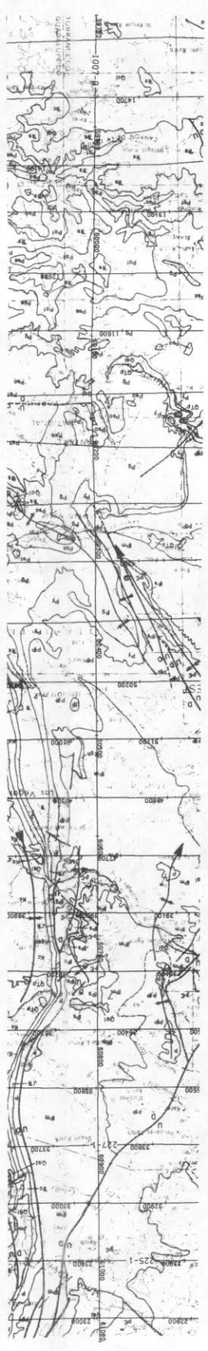
DIURNAL
GAMMAS
MIN 51511
MAX 51513
MEAN 51512
STD DEV .5551

RADAR ALTMTR
FEET
MIN 159.7
MAX 623.2
MEAN 383.6
STD DEV 73.94

LINE 1'006

LINE 1007
RATØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78309





LINE 1007

RADAR ALTMTR FEET
MIN 225.9
MAX 761.0
MEAN 434.4
STD DEV 89.37

DIURNAL GAMMAS
MIN 51513
MAX 51522
MEAN 51517
STD DEV 2.809

RESIDUAL MAG GAMMAS
MIN -745.6
MAX 415.1
MEAN -296.6
STD DEV 220.8

AIR TEMPERATURE DEG C
MIN -4.851
MAX 11.43
MEAN 8.578
STD DEV 1.310

BARØ PRESSURE IN HG
MIN 21.83
MAX 23.89
MEAN 22.89
STD DEV .6059

LINE 1008
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78309

LINE 1009
RATON BASIN - SANTA FE NTMS NI 13-2 - GEOMETRICS
DATA ACQUIRED 78306

LINE 1010
RHIØN BASIN - SANTA FE NTMS NI 13-2 - GEØMETRICS
DATA ACQUIRED 78306

APPENDIX C – Standard Deviation Maps

SANTA FE

106 00 | 105 30 | 105 00 | 104 30 | 104 00

36 00

35 30

35 00

SCALE 1:500,000

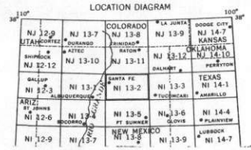
MILES 5 0 5 10 15 MILES

KILOMETRES 5 0 5 10 15 20 25 30 KILOMETRES

O - DATA STATISTICALLY ADEQUATE
BLANK - DATA STATISTICALLY INADEQUATE
⊗ - 1 σ ABOUT MEASURE OF CENTRAL TENDENCY

NOTE: ON E-W LINES, +σ TO NORTH, -σ TO SOUTH.
ON N-S LINES, +σ TO WEST, -σ TO EAST.

LOCATION DIAGRAM



SURVEY AND COMPILATION BY:

N

POTASSIUM STANDARD DEVIATION MAP

RATON BASIN PROJECT

U. S. DEPARTMENT OF ENERGY

SANTA FE

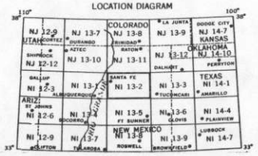
SCALE 1:500,000

MILES 5 0 5 10 15 MILES
KILOMETRES 5 0 5 10 15 20 25 30 KILOMETRES

O - DATA STATISTICALLY ADEQUATE
BLANK - DATA STATISTICALLY INADEQUATE
e - 1 σ ABOUT MEASURE OF CENTRAL TENDENCY

NOTE: ON E-W LINES, +σ TO NORTH, -σ TO SOUTH.
ON N-S LINES, +σ TO WEST, -σ TO EAST.

LOCATION DIAGRAM



SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

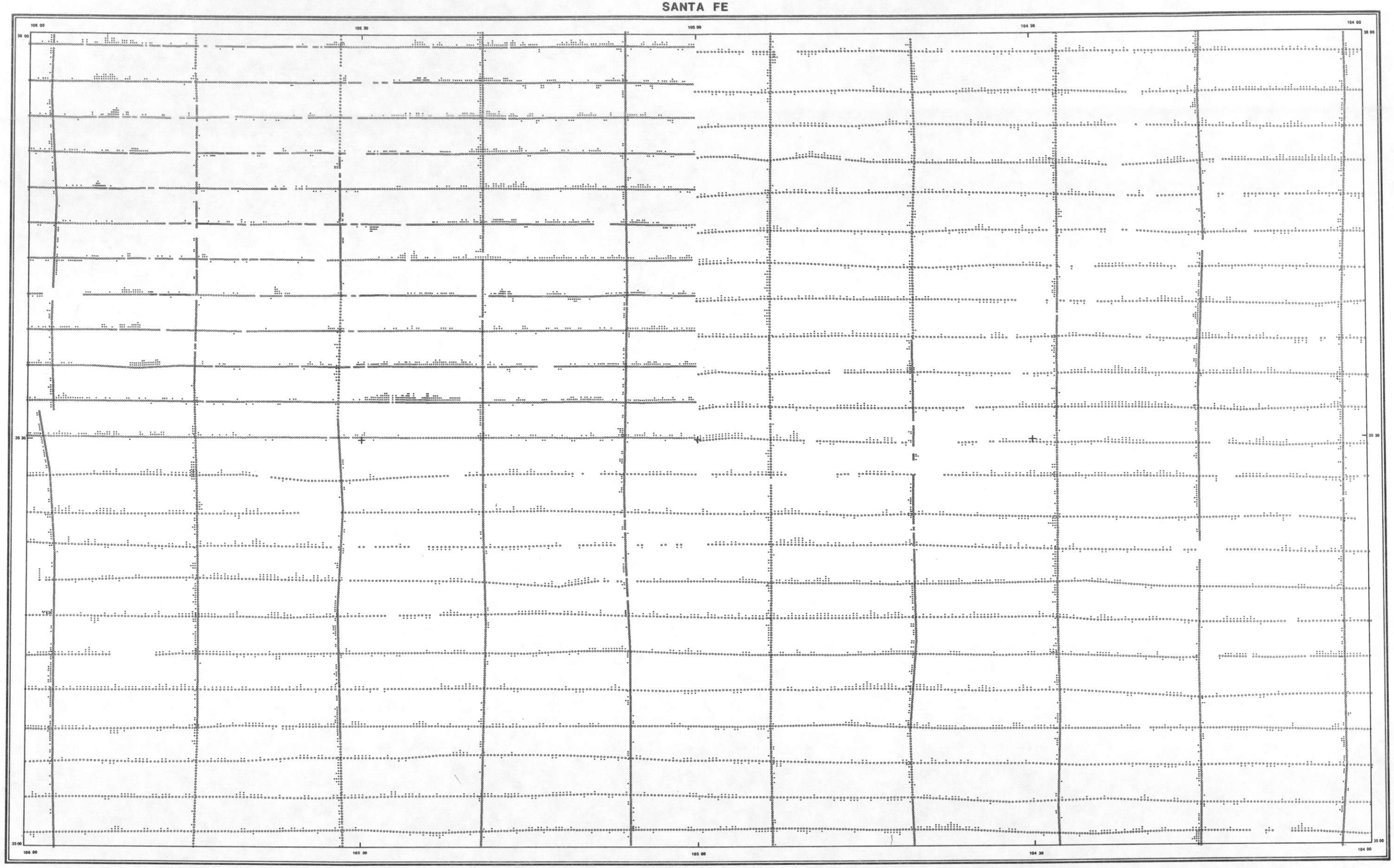
N

URANIUM STANDARD DEVIATION MAP

RATON BASIN PROJECT

U. S. DEPARTMENT OF ENERGY

SANTA FE



SCALE 1:500,000

MILES 5 0 5 10 15 MILES

KILOMETRES 5 0 5 10 15 20 25 30 KILOMETRES

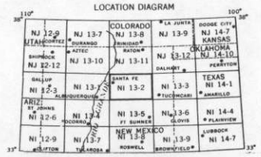
O - DATA STATISTICALLY ADEQUATE

BLANK - DATA STATISTICALLY INADEQUATE

σ - 1 σ ABOUT MEASURE OF CENTRAL TENDENCY

NOTE: ON E-W LINES, +σ TO NORTH, -σ TO SOUTH.
ON N-S LINES, +σ TO WEST, -σ TO EAST.

LOCATION DIAGRAM



SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

N

THORIUM STANDARD DEVIATION MAP

RATON BASIN PROJECT

U. S. DEPARTMENT OF ENERGY

SANTA FE

106 00 | 105 30 | 105 00 | 104 30 | 104 00

36 00

35 30

35 00

SCALE 1:500,000

MILES 5 0 5 10 15 MILES

KILOMETRES 5 0 5 10 15 20 25 30 KILOMETRES

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

N

O - DATA STATISTICALLY ADEQUATE

BLANK - DATA STATISTICALLY INADEQUATE

* - 1 σ ABOUT MEASURE OF CENTRAL TENDENCY

NOTE: ON E-W LINES, +σ TO NORTH, -σ TO SOUTH. ON N-S LINES, +σ TO WEST, -σ TO EAST.

LOCATION DIAGRAM

110° 100° 38° 33°

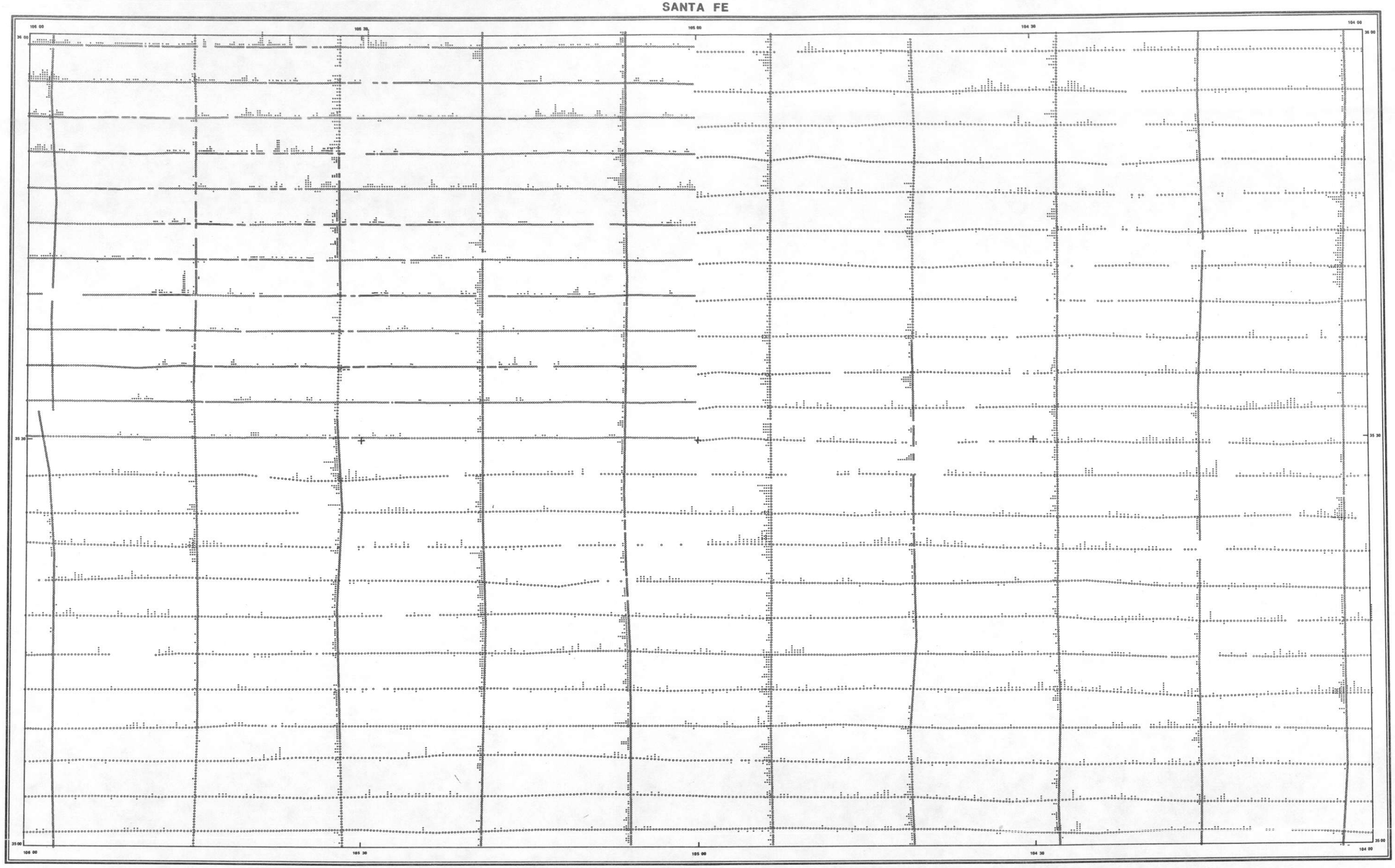
NJ 12-9	NJ 13-7	COLORADO NJ 13-8	NJ 13-9	NJ 14-7 KANSAS
NJ 12-12	NJ 13-10	NJ 13-11	NJ 13-12	OKLAHOMA NJ 14-10
NJ 12-3	NJ 13-1	SANTA FE NJ 13-2	NJ 13-3	TEXAS NJ 14-1
NJ 12-6	NJ 13-4	NJ 13-5 NEW MEXICO	NJ 13-6	NJ 14-4
NJ 12-9	NJ 13-7	NJ 13-8 ROSWELL	NJ 13-9	NJ 14-7

THORIUM/POTASSIUM STANDARD DEVIATION MAP

RATON BASIN PROJECT

U. S. DEPARTMENT OF ENERGY

SANTA FE



SCALE 1:500,000

MILES 5 0 5 10 15 MILES

KILOMETRES 5 0 5 10 15 20 25 30 KILOMETRES

N

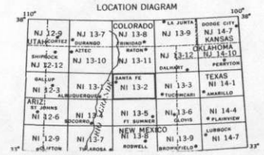
SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

Ø - DATA STATISTICALLY ADEQUATE
BLANK - DATA STATISTICALLY INADEQUATE
ø - 1 σ ABOUT MEASURE OF CENTRAL TENDENCY

NOTE: ON E-W LINES, +σ TO NORTH, -σ TO SOUTH.
ON N-S LINES, +σ TO WEST, -σ TO EAST.

LOCATION DIAGRAM



URANIUM/POTASSIUM STANDARD DEVIATION MAP

RATON BASIN PROJECT

U. S. DEPARTMENT OF ENERGY

SANTA FE

106 00 | 105 30 | 105 00 | 104 30 | 104 00

36 00

35 30

35 00

SCALE 1:500,000

MILES 5 0 5 10 15 MILES

KILOMETRES 5 0 5 10 15 20 25 30 KILOMETRES

O - DATA STATISTICALLY ADEQUATE
BLANK - DATA STATISTICALLY INADEQUATE
σ - 1 σ ABOUT MEASURE OF CENTRAL TENDENCY

NOTE: ON E-W LINES, +σ TO NORTH, -σ TO SOUTH.
ON N-S LINES, +σ TO WEST, -σ TO EAST.

LOCATION DIAGRAM

110° 38° 100° 38°

NJ 12-9 UTAH	NJ 13-7 DURANGO	COLORADO NJ 13-8	NJ 13-9 LA JUNTA	DODGE CITY NJ 14-7 KANSAS
SHIPROCK NJ 12-12	AZTEC NJ 13-10	RATON NJ 13-11	NJ 13-12 DALHART	OKLAHOMA NJ 14-10 PERRYTON
GALLUP NJ 13-1	NJ 13-4 ALBUQUERQUE	SANTA FE NJ 13-2	NJ 13-3 TUCUMCARI	TEXAS NJ 14-1 AMARILLO
ABILENE NJ 12-6	NJ 13-5 ROSWELL	NJ 13-6 CLOVIS	NJ 14-4 PLAINVIEW	
NJ 12-9 MIDLAND	NJ 13-7 TULAROSA	NEW MEXICO NJ 13-8 ROSWELL	NJ 13-9 BROWNFIELD	LUBBOCK NJ 14-7

32° 32°

URANIUM/THORIUM STANDARD DEVIATION MAP

RATON BASIN PROJECT

U. S. DEPARTMENT OF ENERGY

SURVEY AND COMPILATION BY:

EG&G GEOMETRICS

APPENDIX D - Computer Map Units And Histograms

SANTA FE QUADRANGLE

COMPUTER MAP UNIT SYMBOL CONVERSION TABLE

Computer Map Unit Symbol	Geologic Map Unit Symbol	Computer Map Unit Symbol	Geologic Map Unit Symbol
QAL	Qal	*KJ	KJ
QTP	QTp	J	J
QTV	QTv	JM	Jm
QTS	QTs	JSR	Jsr
QTI	QTi	JTR	JT
TO	To	TR	Ŧ
TES	Tes	TRC	Ŧc
TG	Tg	TRS	Ŧs
*TKI	TKi	P	P
*KMV	Kmv	PAT	Pat
KPN	Kpn	PSA	Psa
KM	Km	PG	Pg
KC	Kc	PY	Py
KGH	Kgh	PP	P℘
KGG	Kgg	PENN	℘
KGR	Kgr	PM	℘m
KGSD	Kgsd	PS	℘s
KD	Kd	MD	MD
KDPM	Kdpm	PC	p€
KPA	Kpa	PCI	p€i
KMR	Kmr		

NOTES: On the following pages, histograms for each computer map unit are included in the same order as they appear on the above list.

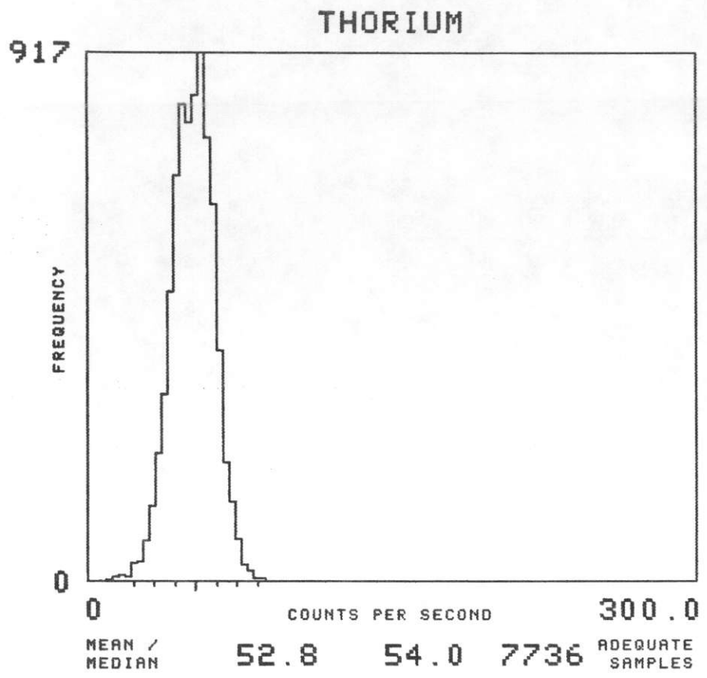
Geologic descriptions of the original geologic map units are in Appendix A.

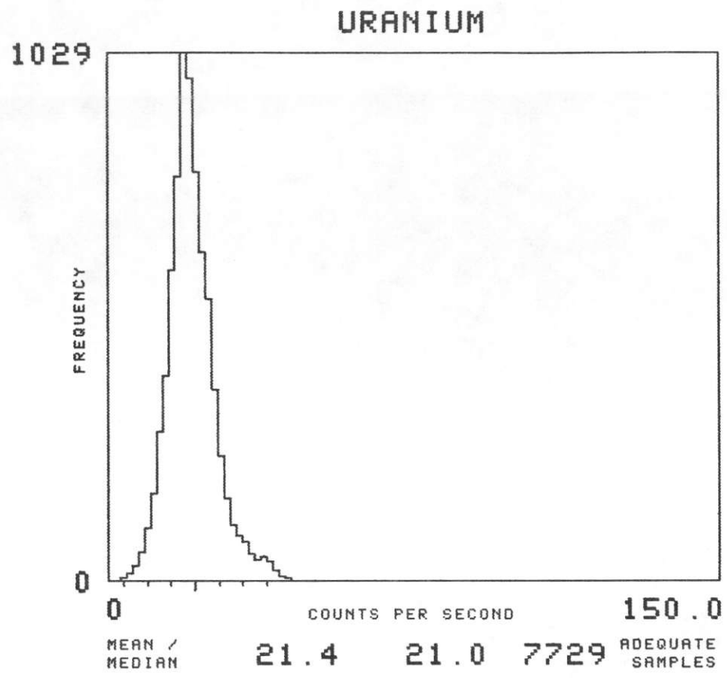
Areas over water or cultural features were assigned separate map unit symbols and were removed from the data block during processing.

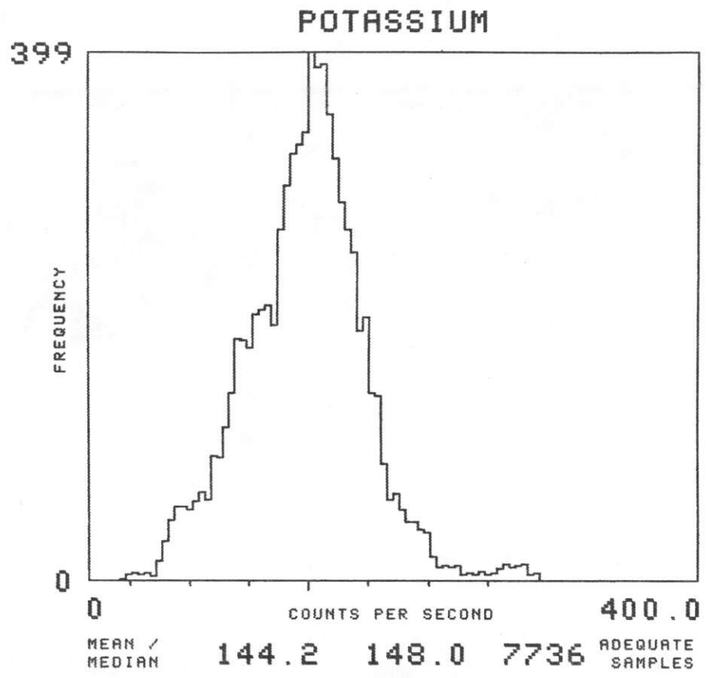
*A statistical analysis was not done due to an inadequate number of samples. Therefore, there are no histograms for units marked in this way.

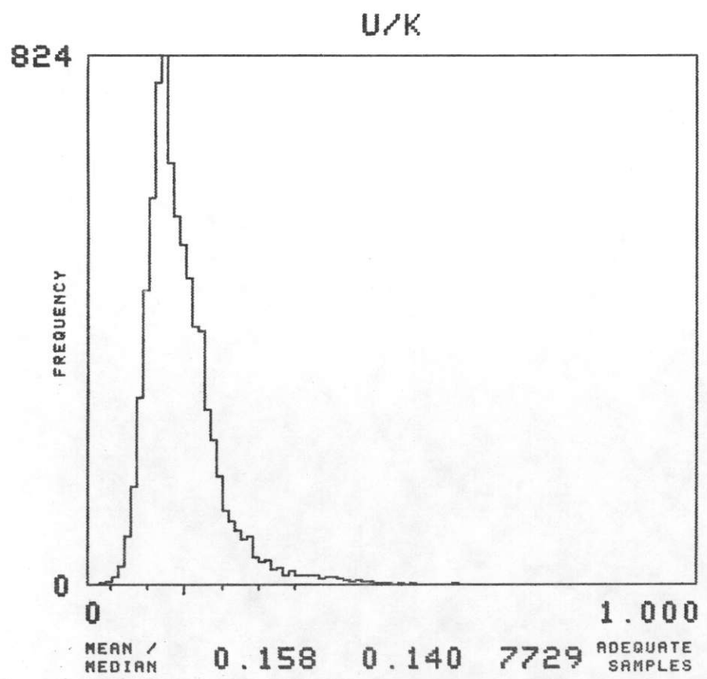
NTMS NI 13-2 SANTA FE

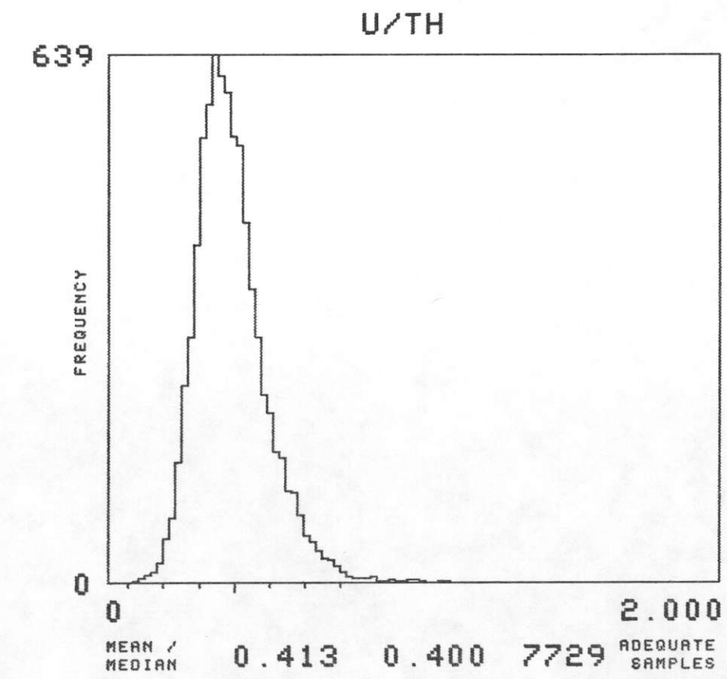
MAP UNIT : QAL TOTAL NUMBER OF SAMPLES 7781

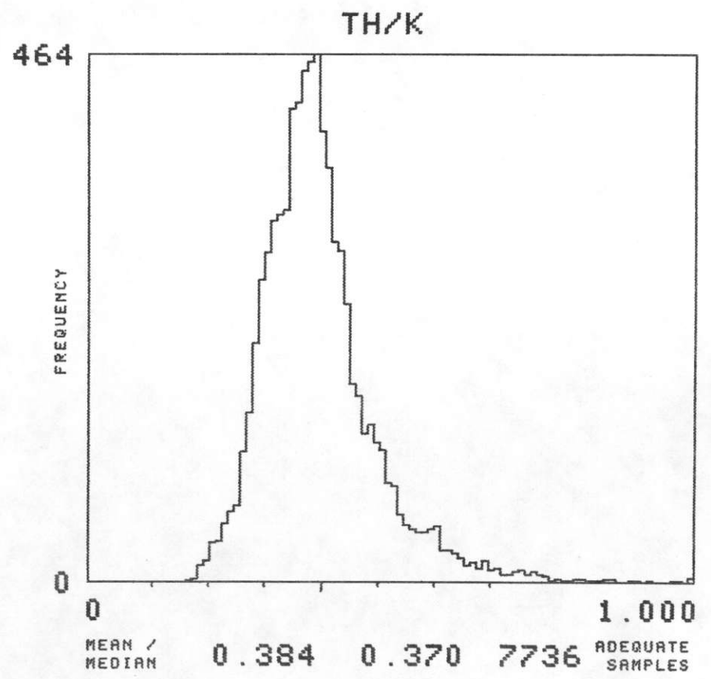






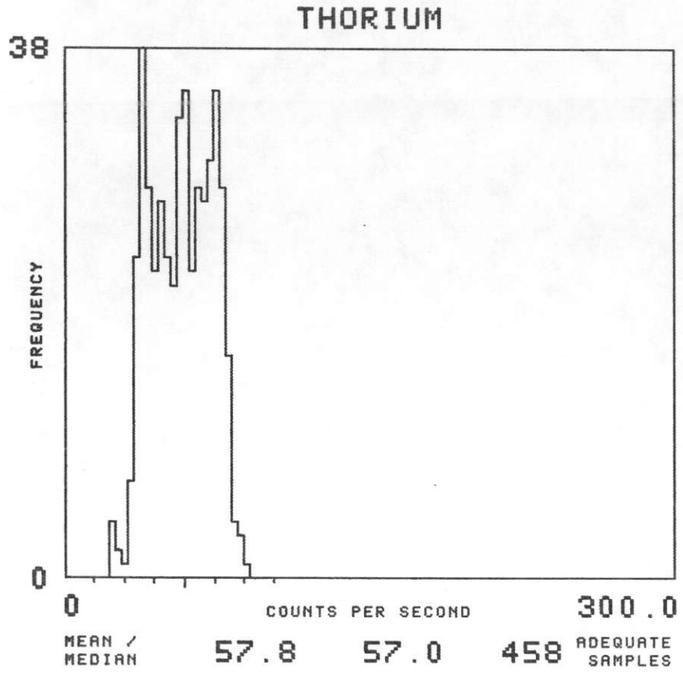


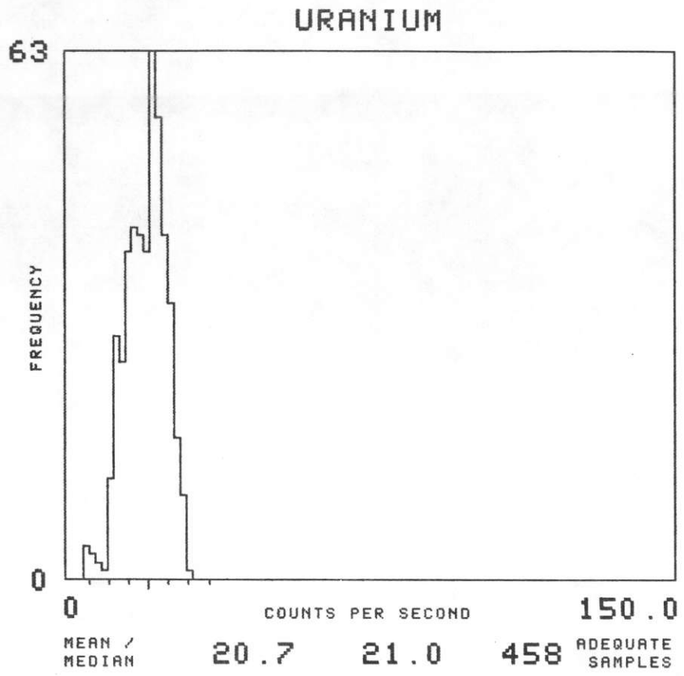


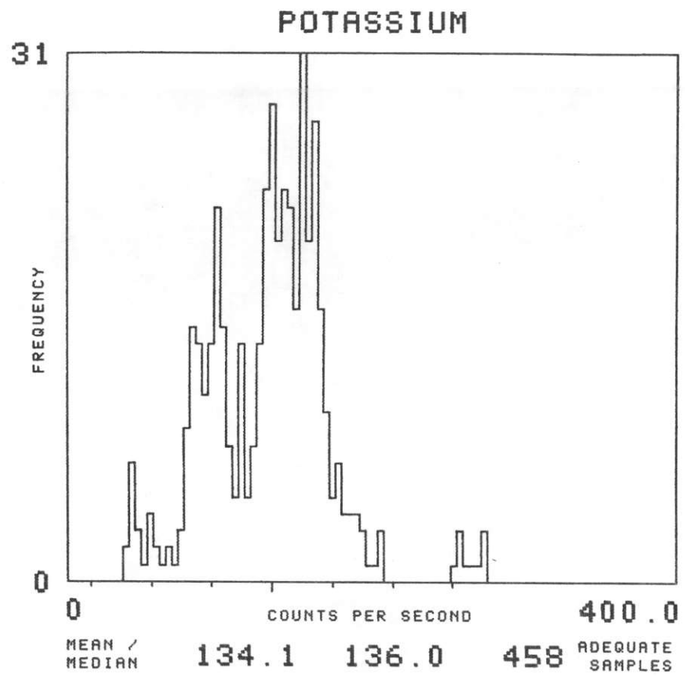


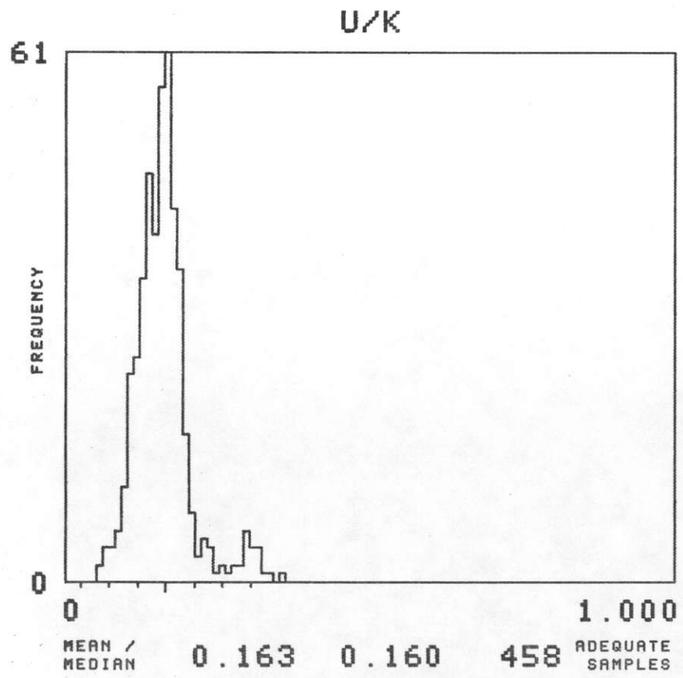
NTMS NI 13-2 SANTA FE

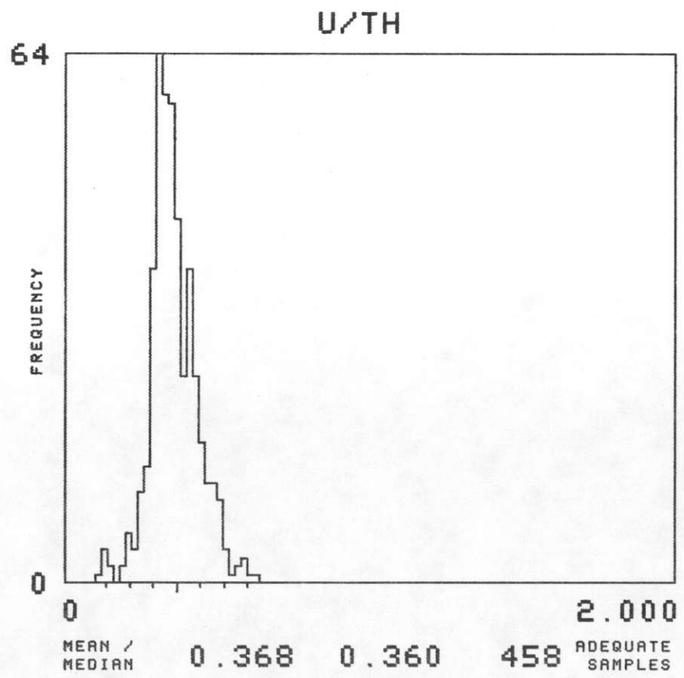
MAP UNIT : QTP TOTAL NUMBER OF SAMPLES 458

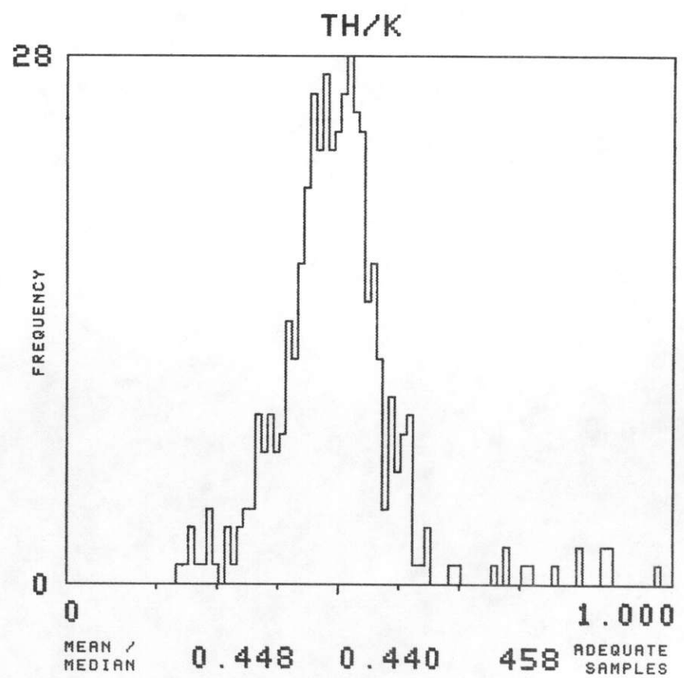






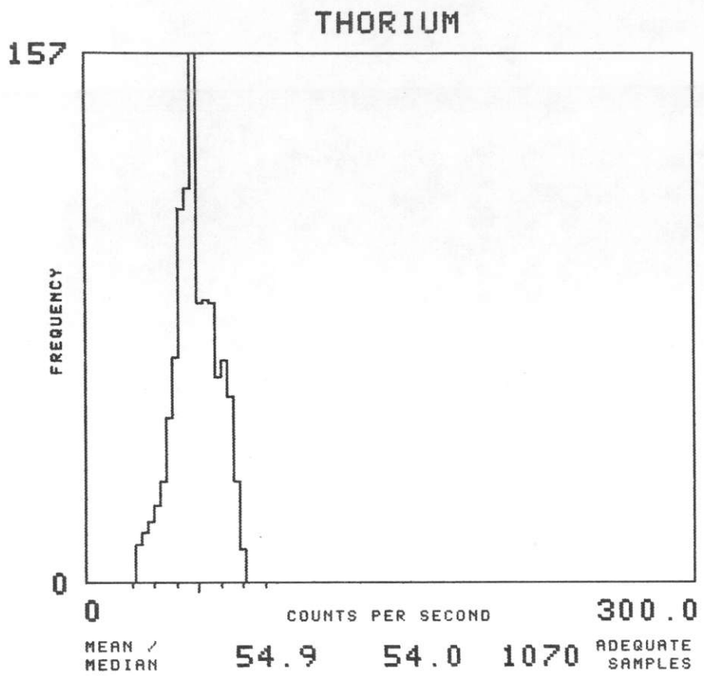


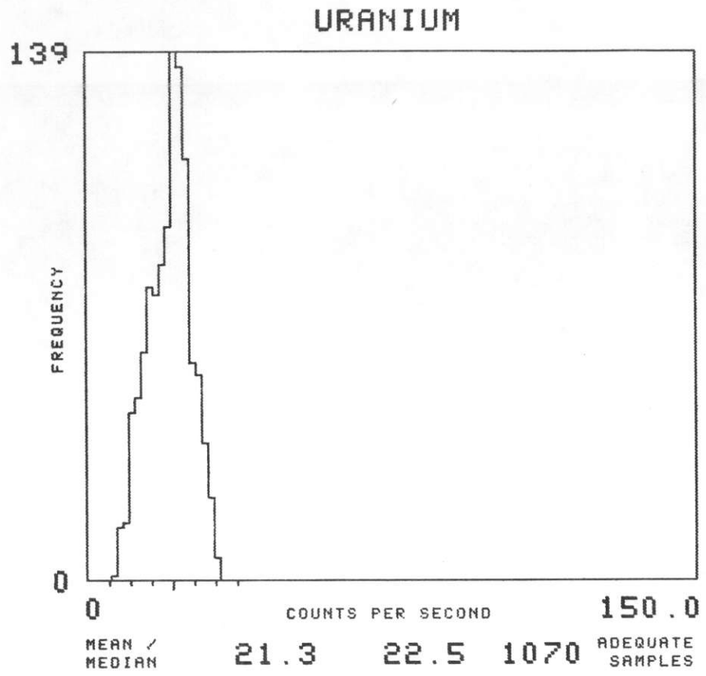


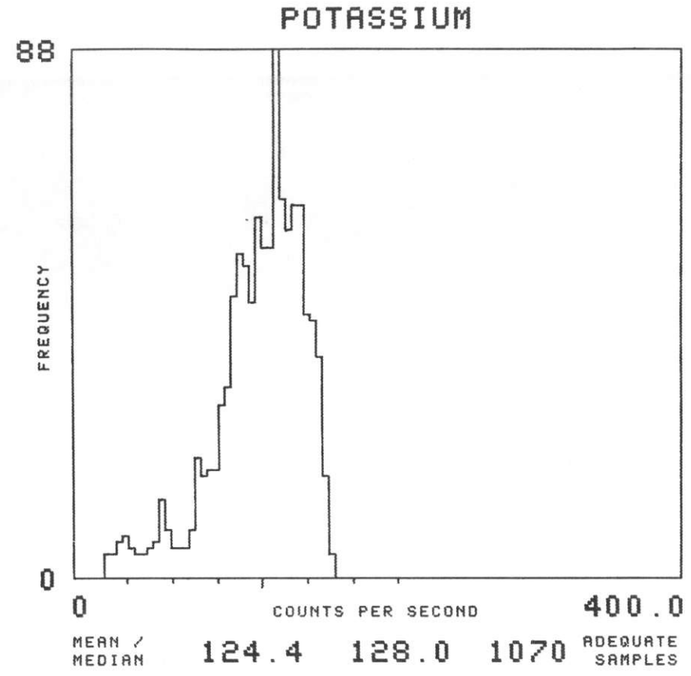


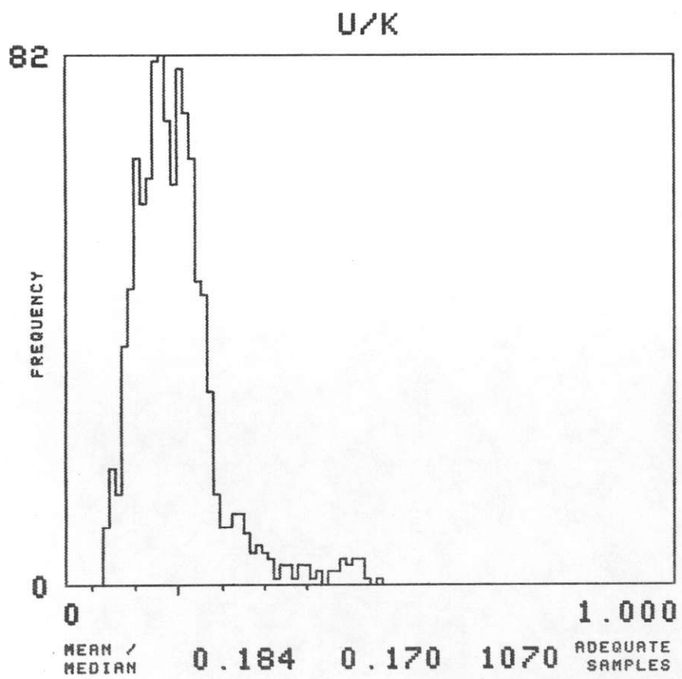
NTMS NI 13-2 SANTA FE

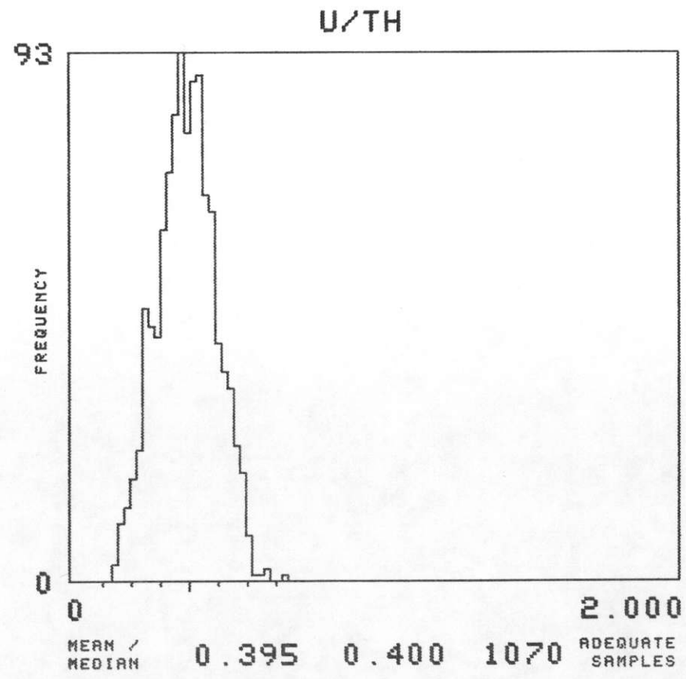
MAP UNIT : QTV TOTAL NUMBER OF SAMPLES 1097

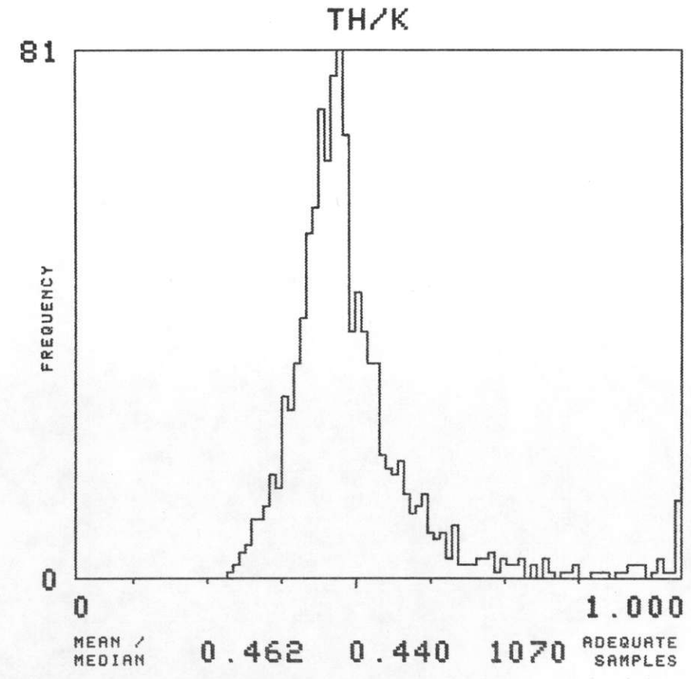










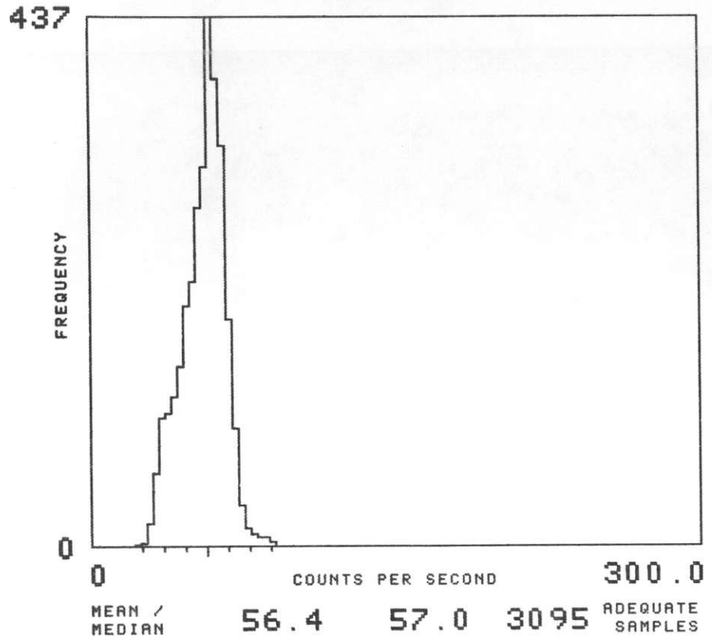


77SF

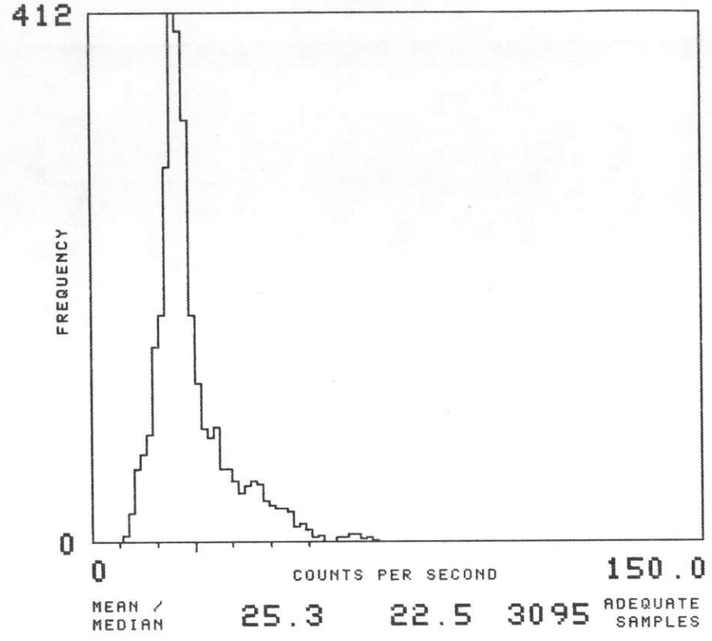
NTMS NI 13-2 SANTA FE

MAP UNIT : QTS TOTAL NUMBER OF SAMPLES 3118

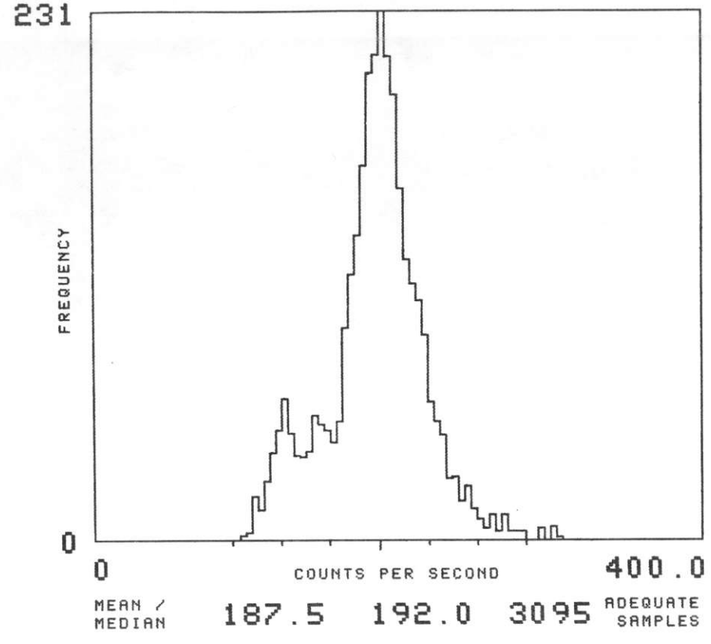
THORIUM



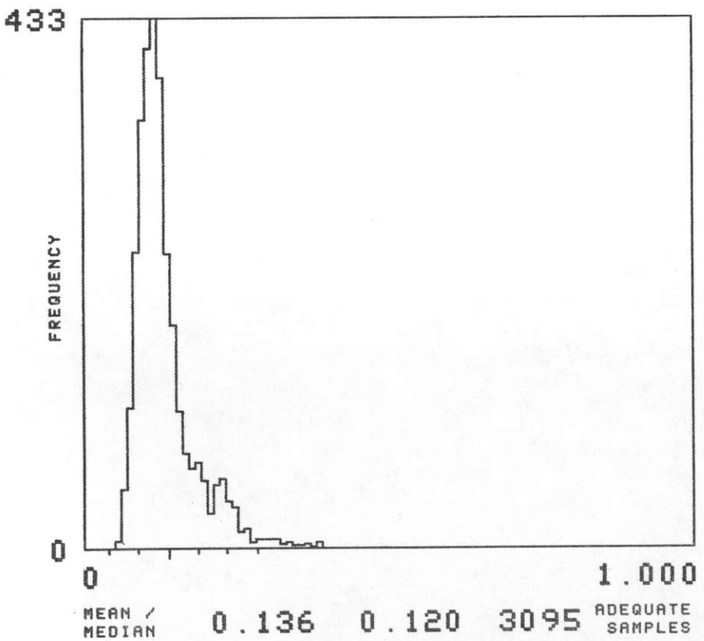
URANIUM



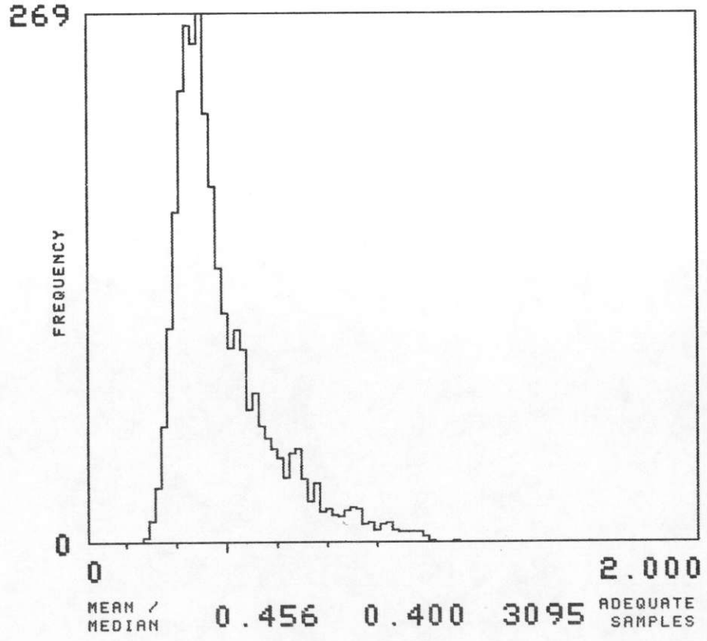
POTASSIUM



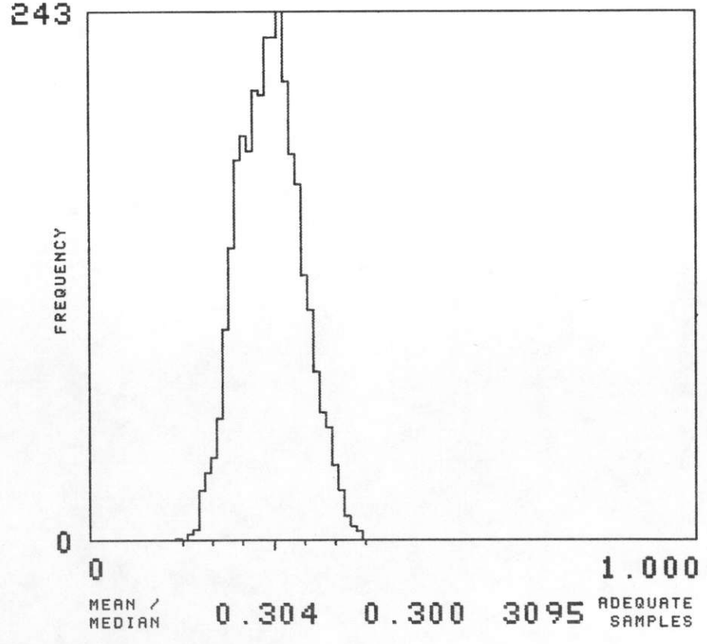
U/K



U/TH

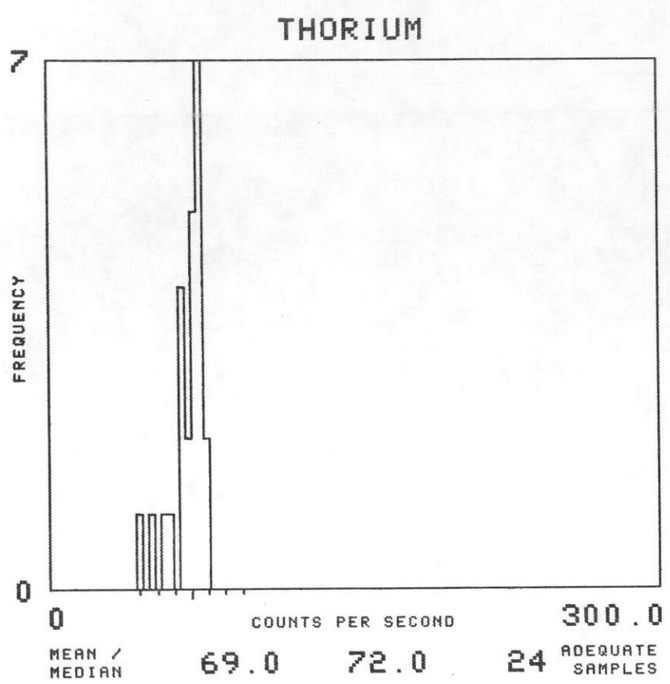


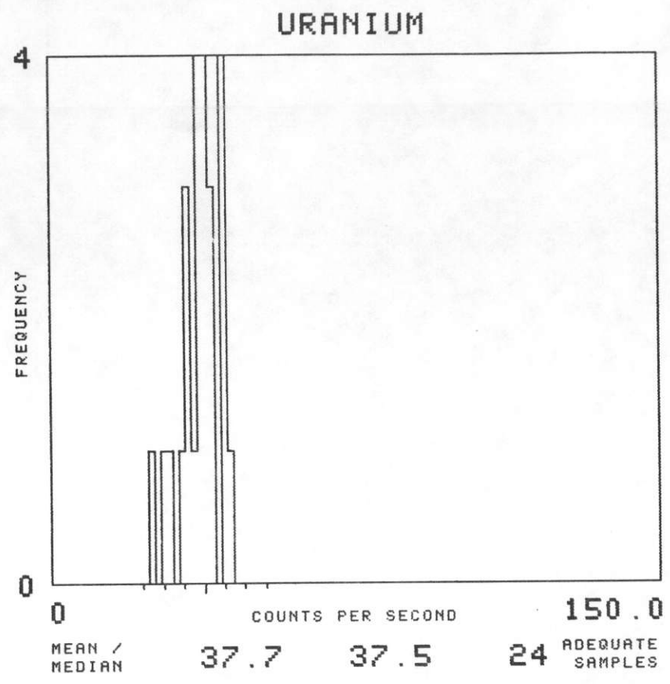
TH/K

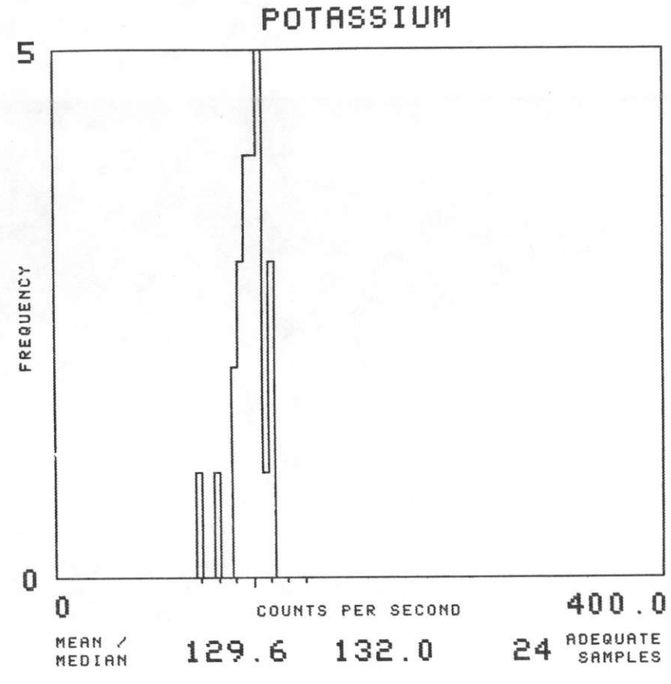


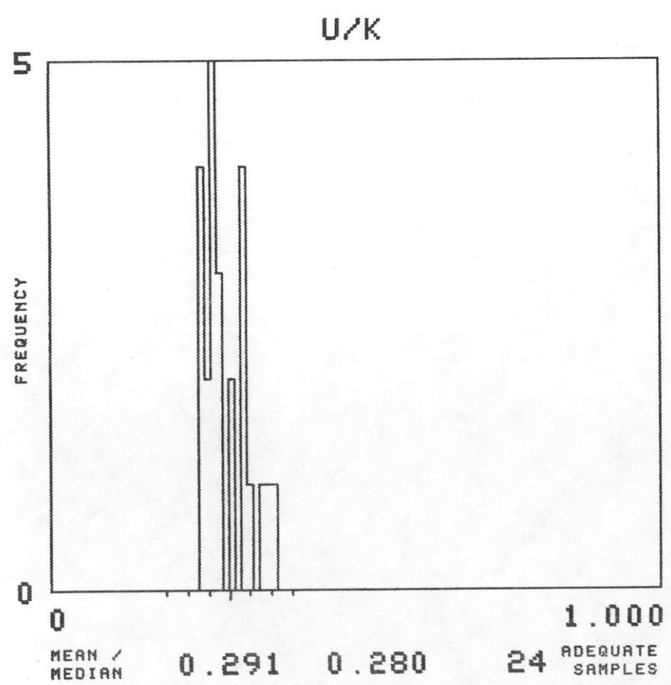
NTMS NI 13-2 SANTA FE

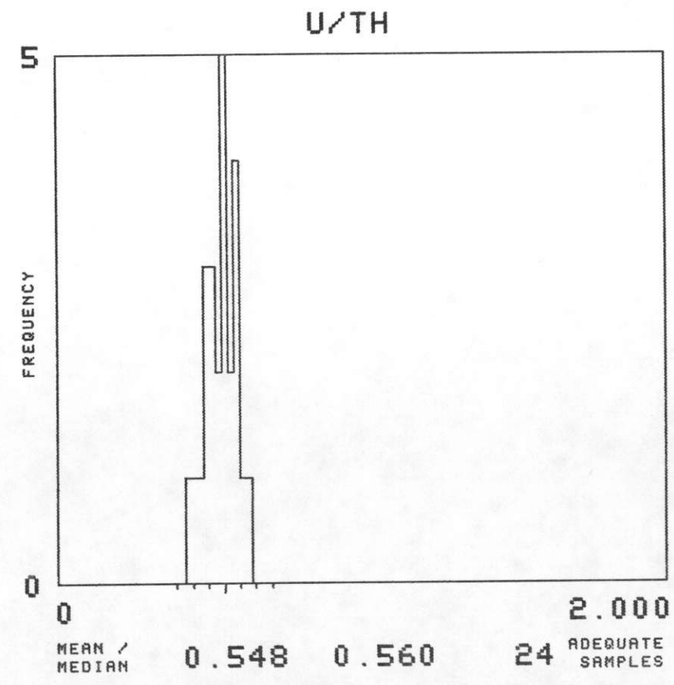
MAP UNIT : QTI TOTAL NUMBER OF SAMPLES 24

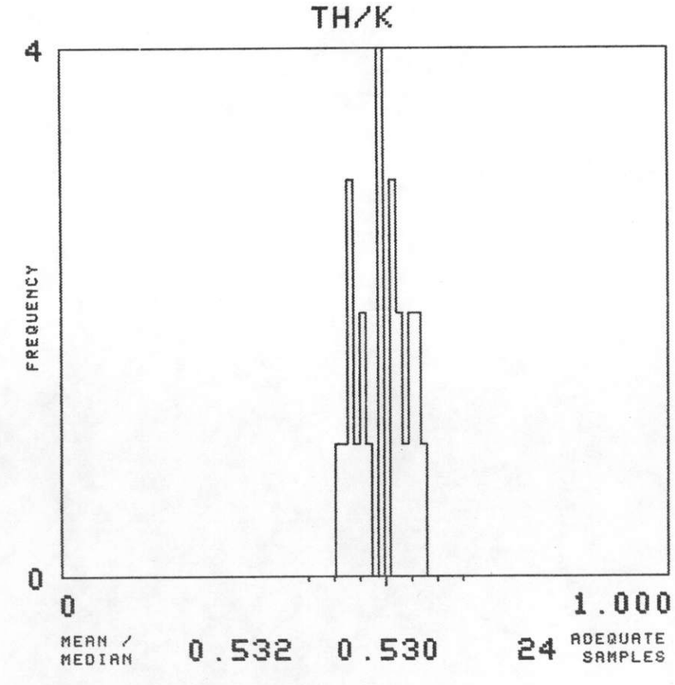








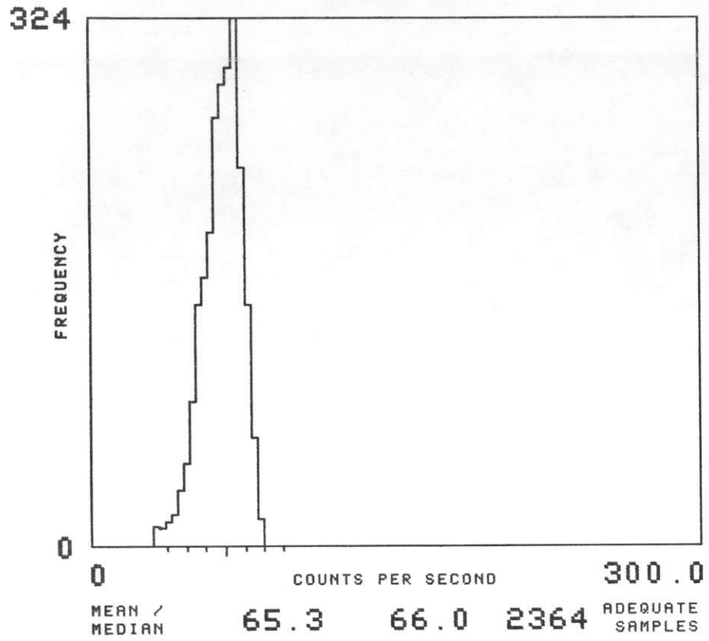




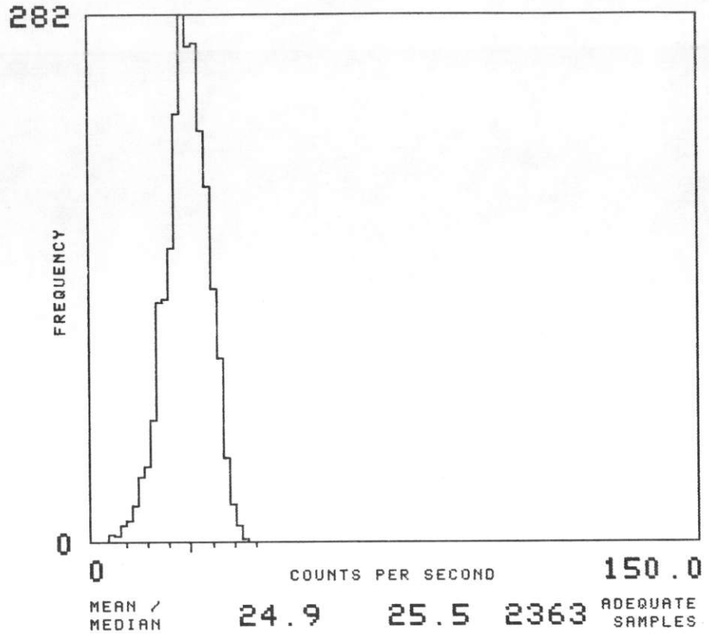
NTMS NI 13-2 SANTA FE

MAP UNIT : TO TOTAL NUMBER OF SAMPLES 2364

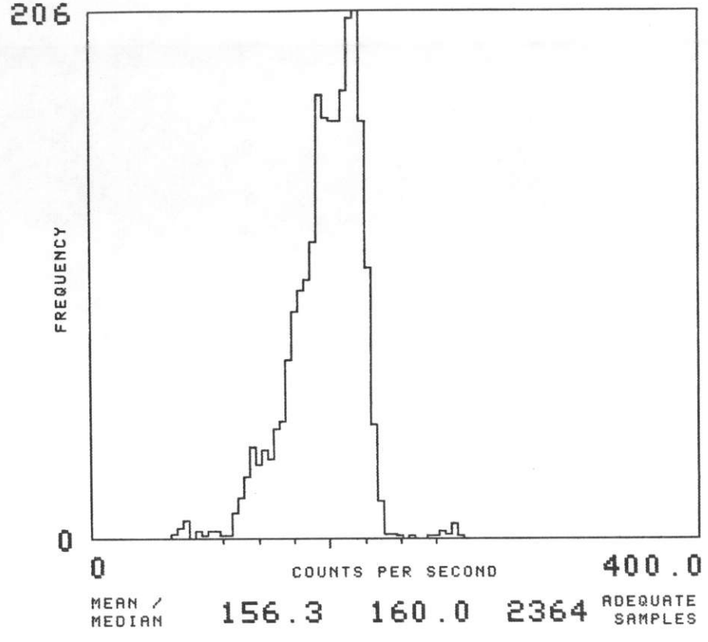
THORIUM



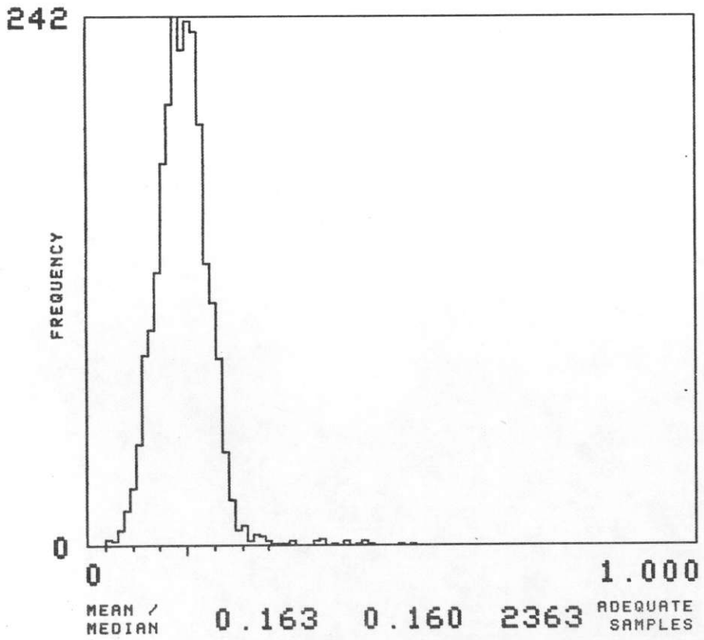
URANIUM



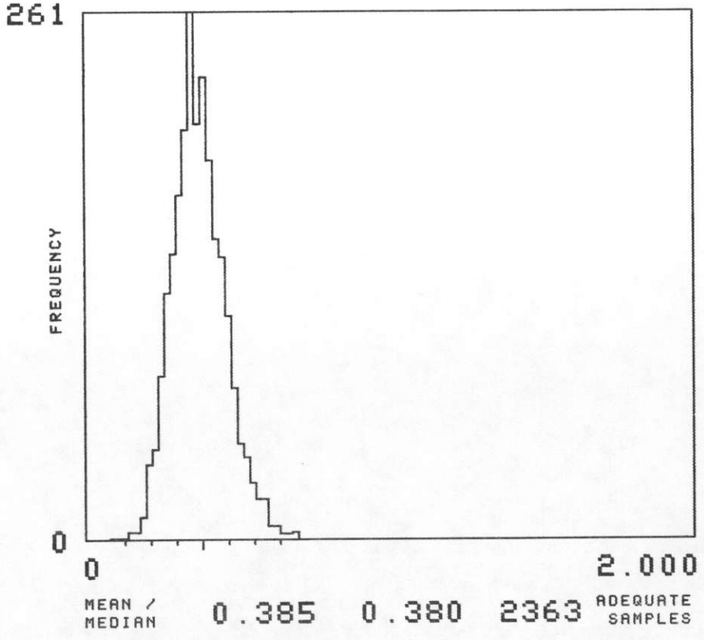
POTASSIUM



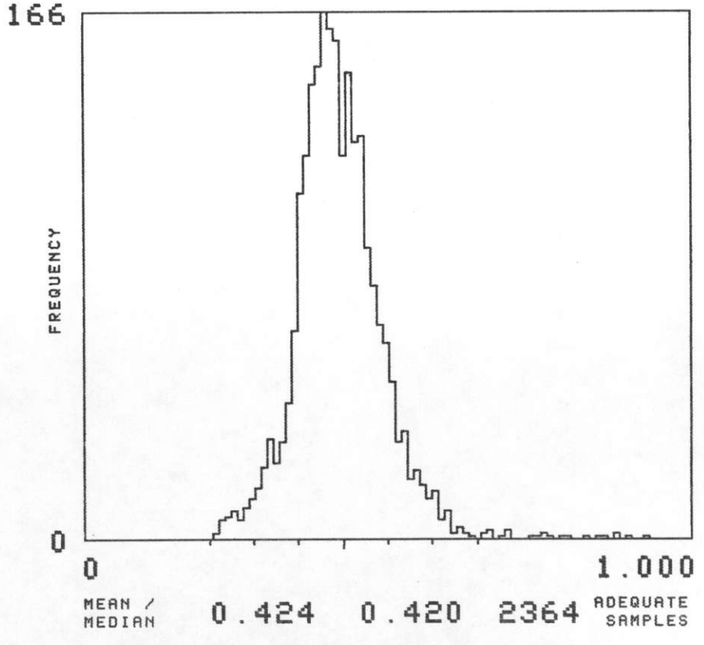
U/K



U/TH



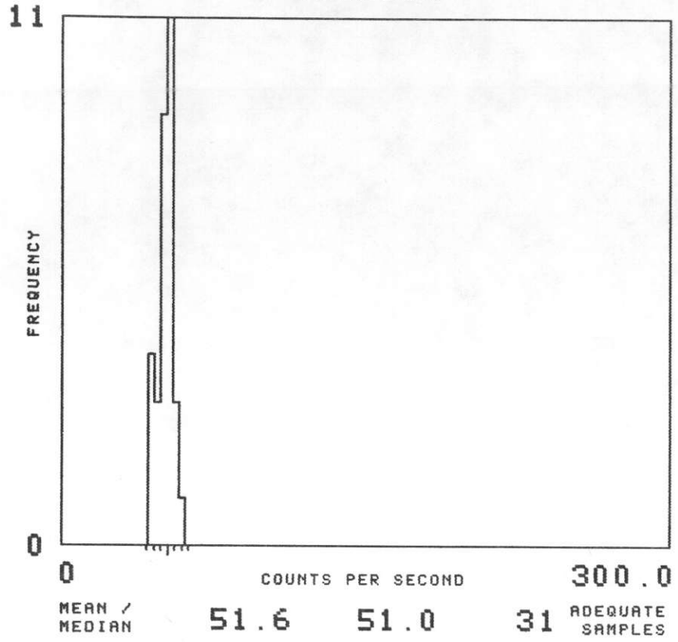
TH/K



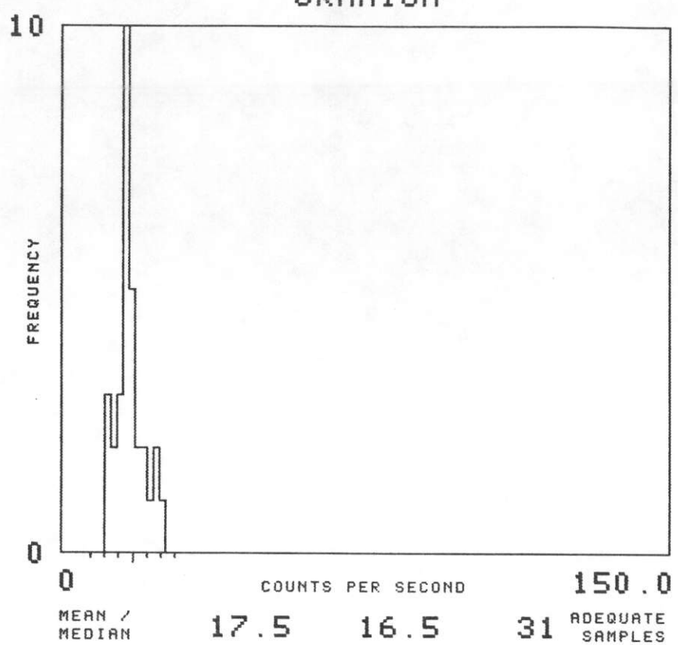
NTMS NI 13-2 SANTA FE

MAP UNIT : TES TOTAL NUMBER OF SAMPLES 31

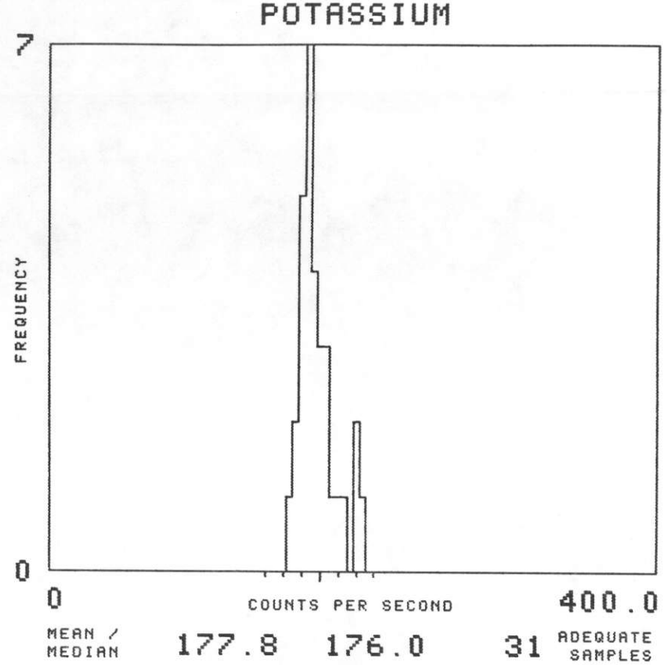
THORIUM



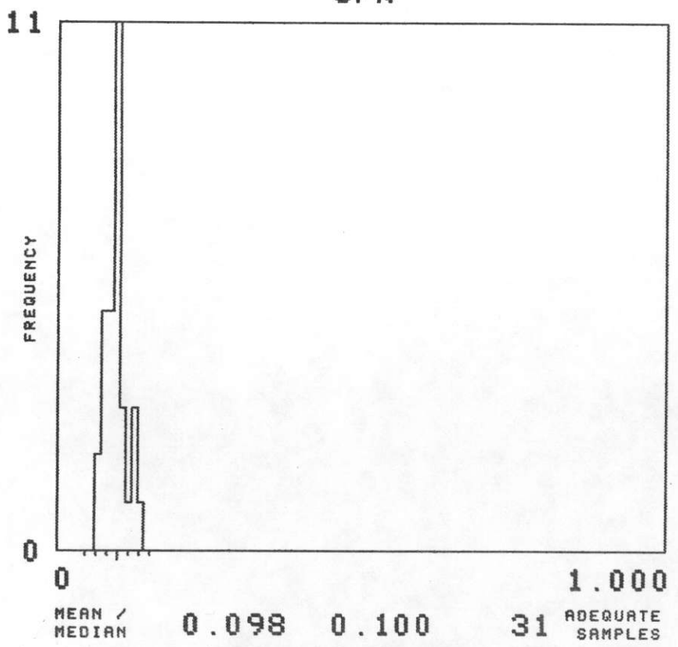
URANIUM



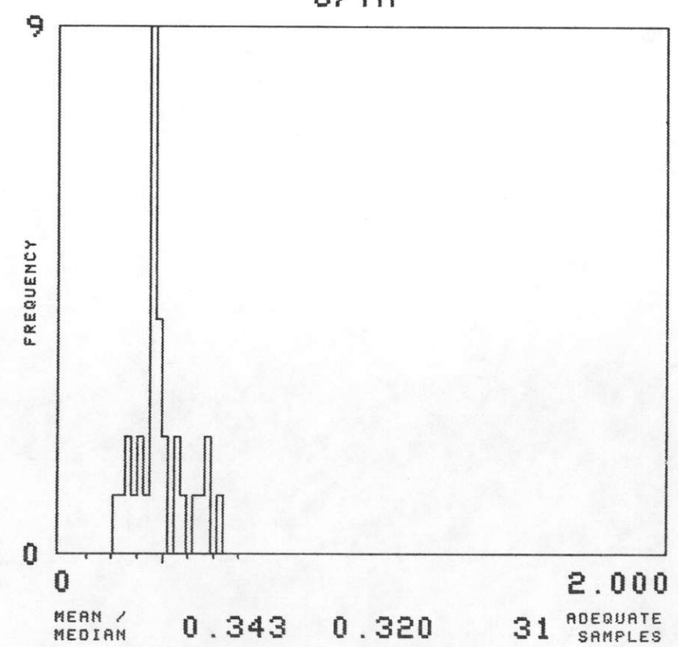
POTASSIUM



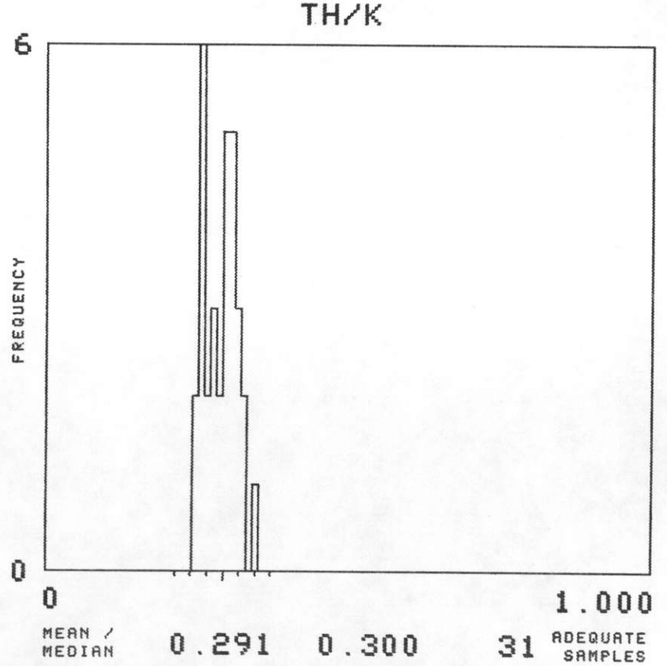
U/K



U/TH



TH/K



NTMS NI 13-2 SANTA FE

MAP UNIT : TG TOTAL NUMBER OF SAMPLES 384

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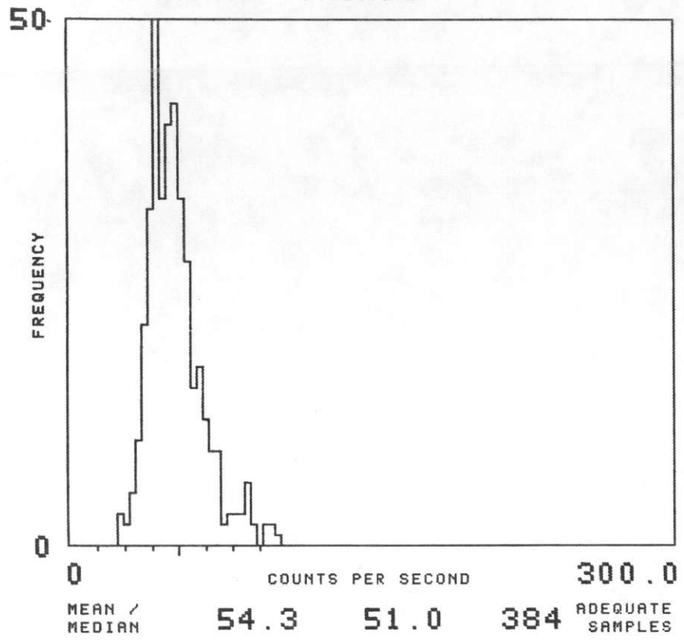

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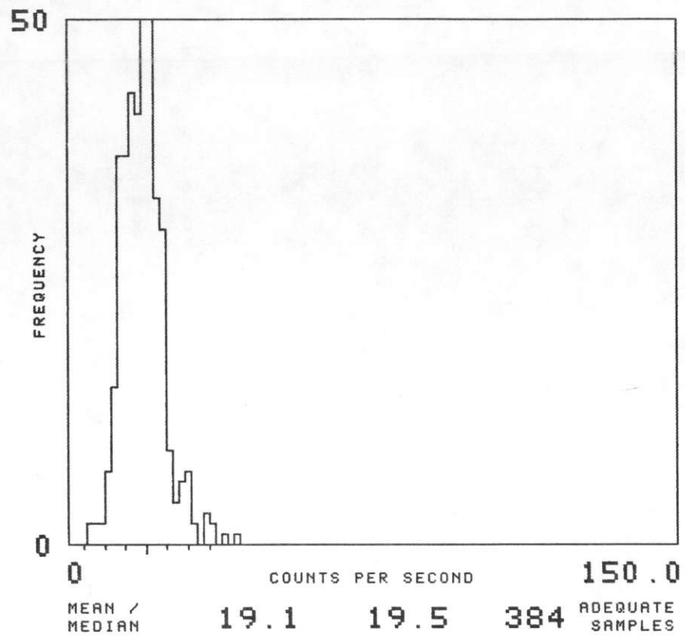

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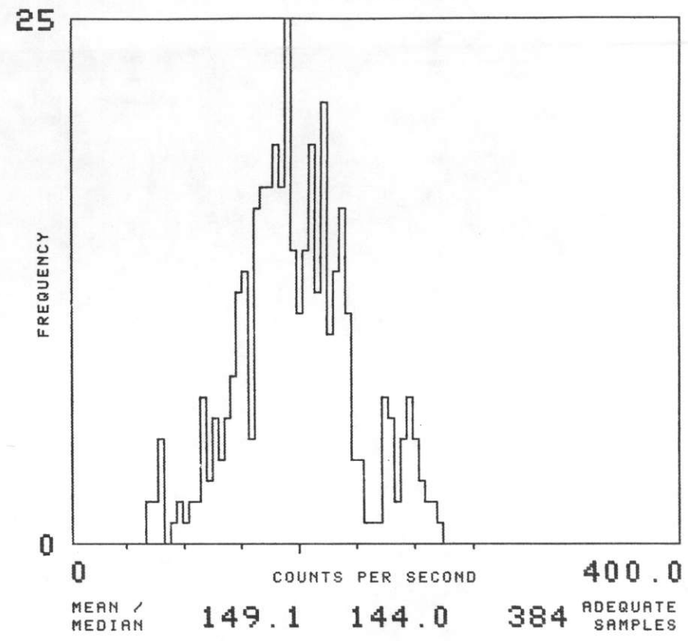
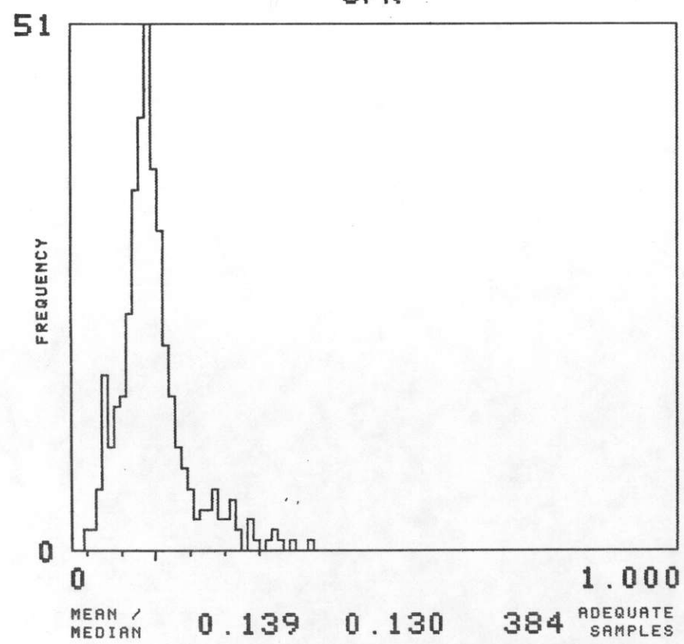
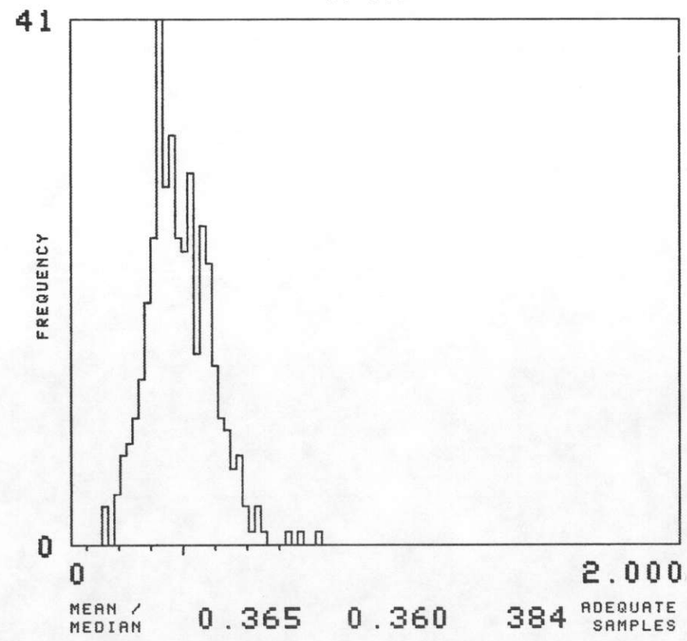


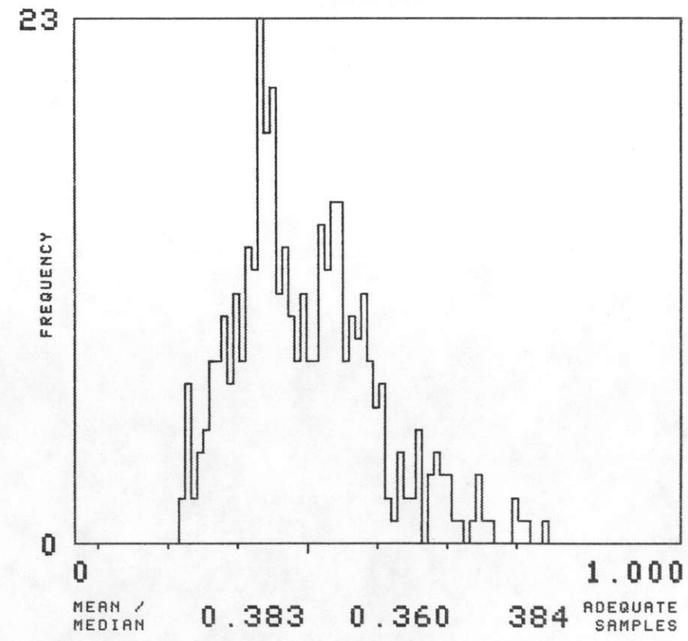
U/K



U/TH



TH/K



NTMS NI 13-2 SANTA FE

MAP UNIT : KPN TOTAL NUMBER OF SAMPLES 47

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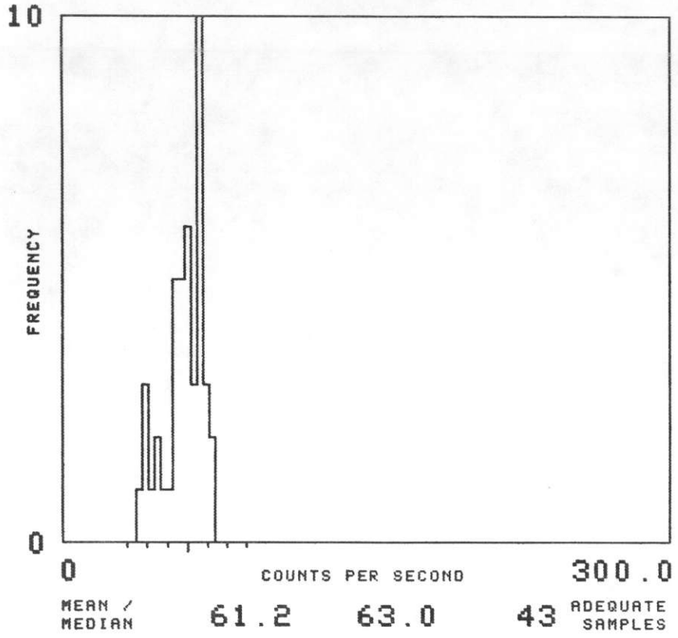
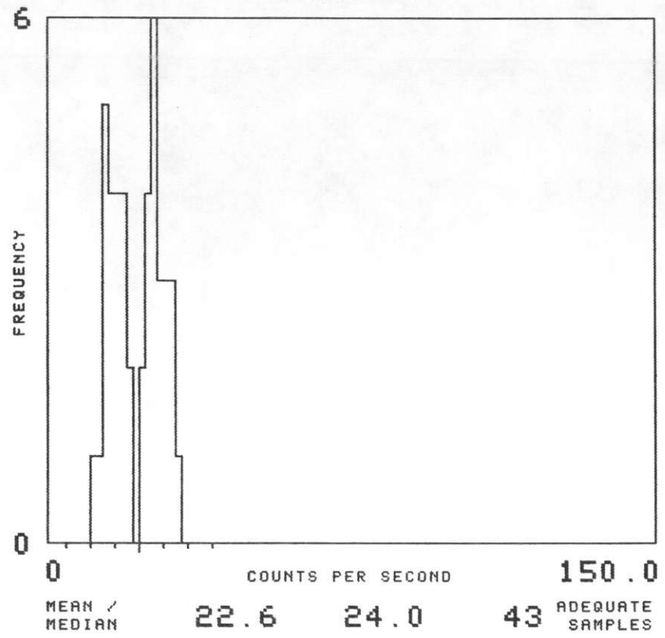


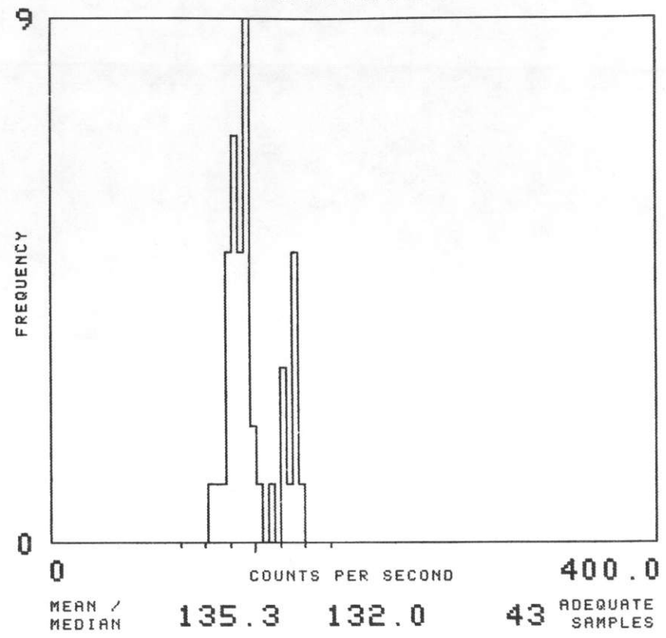
MEAN / MEDIAN 61.2 63.0 43 ADEQUATE SAMPLES

URANIUM



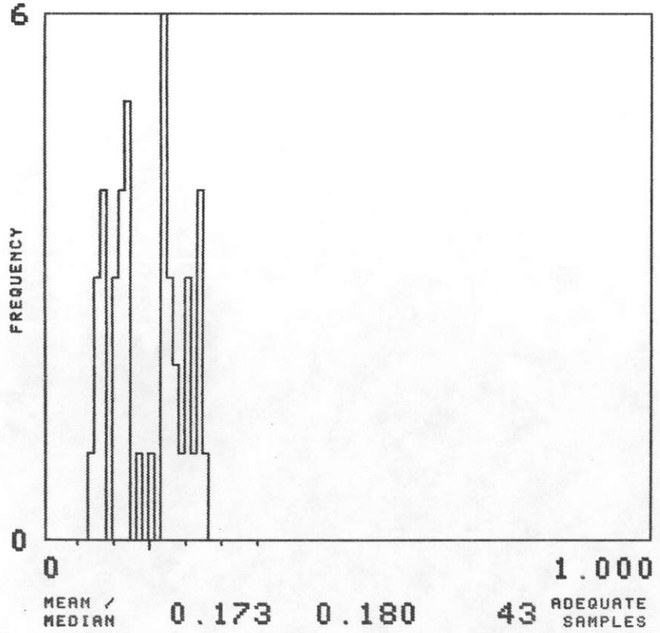
MEAN / MEDIAN 22.6 24.0 43 ADEQUATE SAMPLES

POTASSIUM



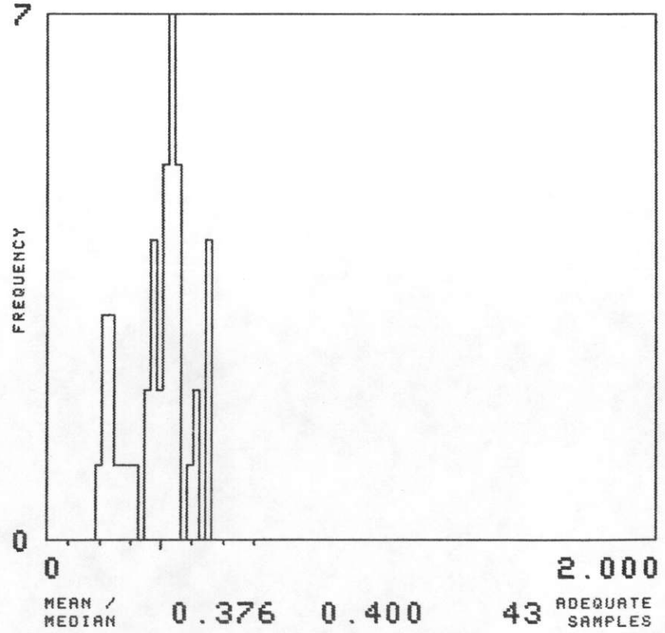
MEAN / MEDIAN 135.3 132.0 43 ADEQUATE SAMPLES

U/K



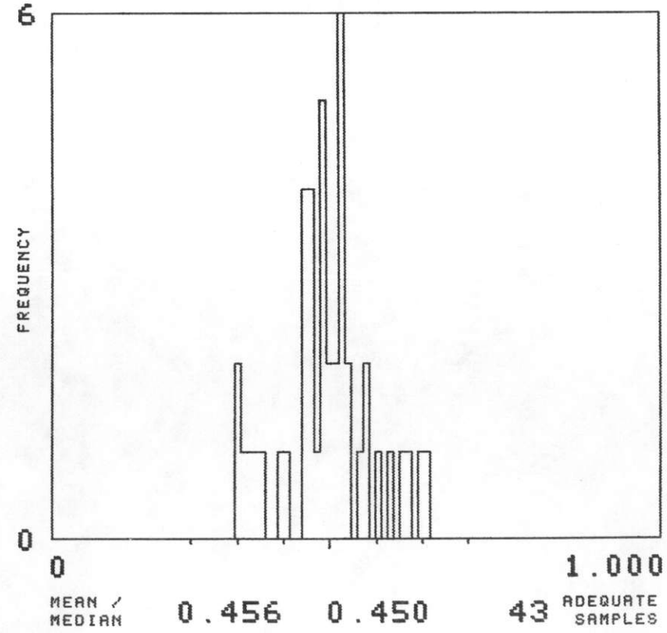
MEAN / MEDIAN 0.173 0.180 43 ADEQUATE SAMPLES

U/TH



MEAN / MEDIAN 0.376 0.400 43 ADEQUATE SAMPLES

TH/K

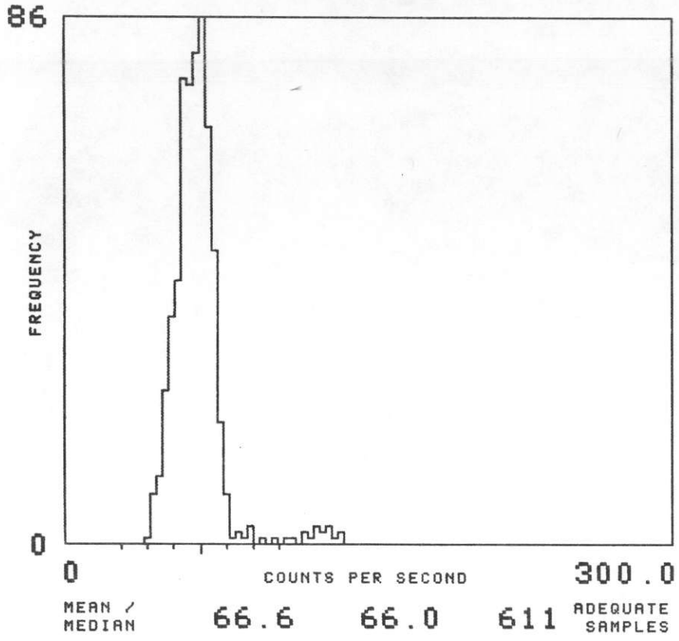


MEAN / MEDIAN 0.456 0.450 43 ADEQUATE SAMPLES

NTMS NI 13-2 SANTA FE

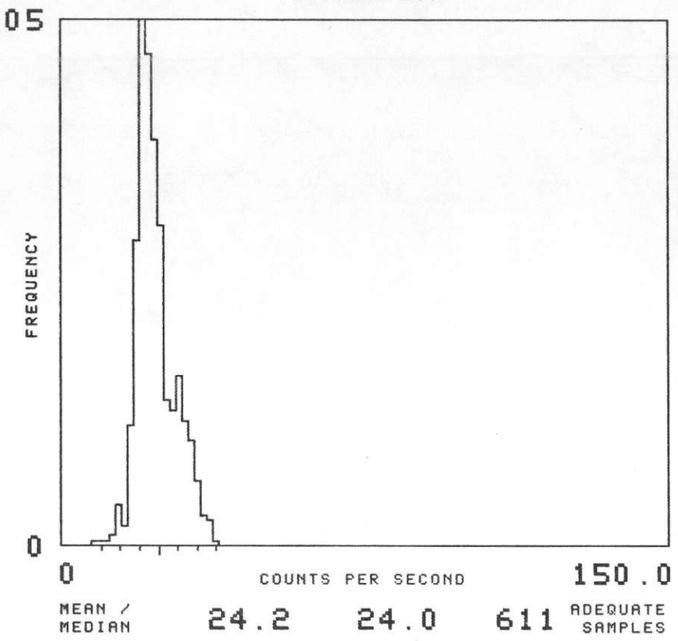
MAP UNIT : KM TOTAL NUMBER OF SAMPLES 618

THORIUM



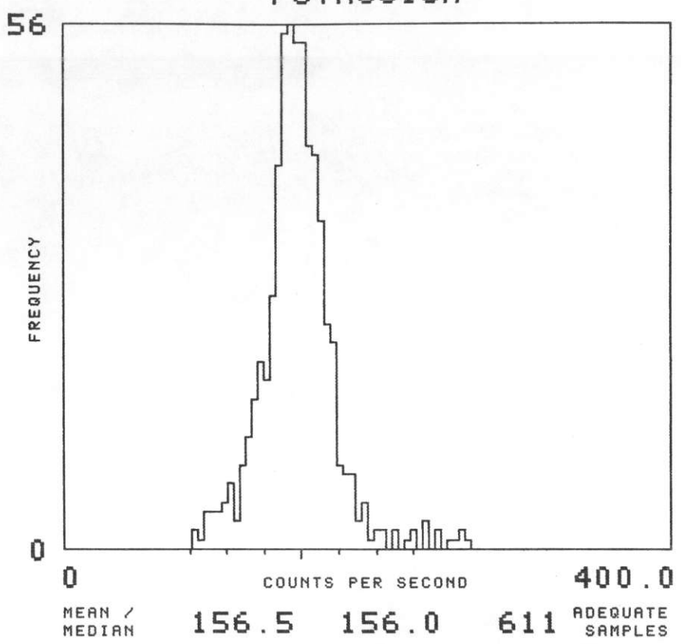
MEAN / MEDIAN 66.6 66.0 611 ADEQUATE SAMPLES

URANIUM



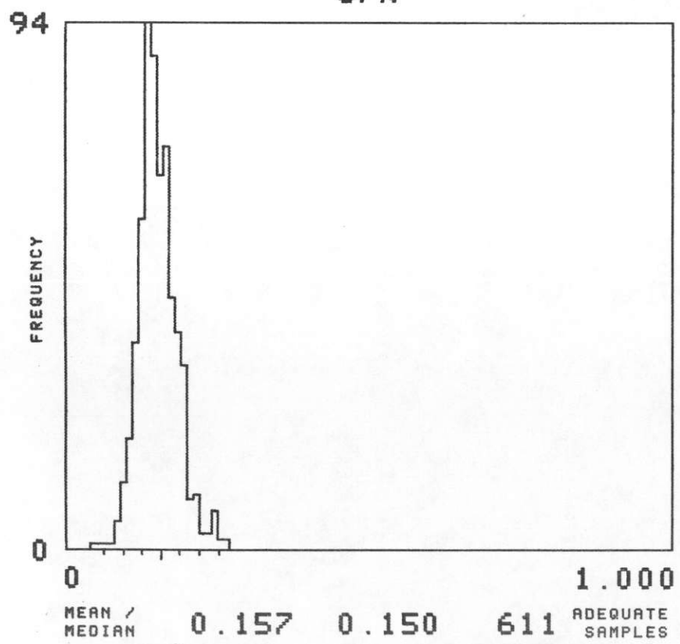
MEAN / MEDIAN 24.2 24.0 611 ADEQUATE SAMPLES

POTASSIUM



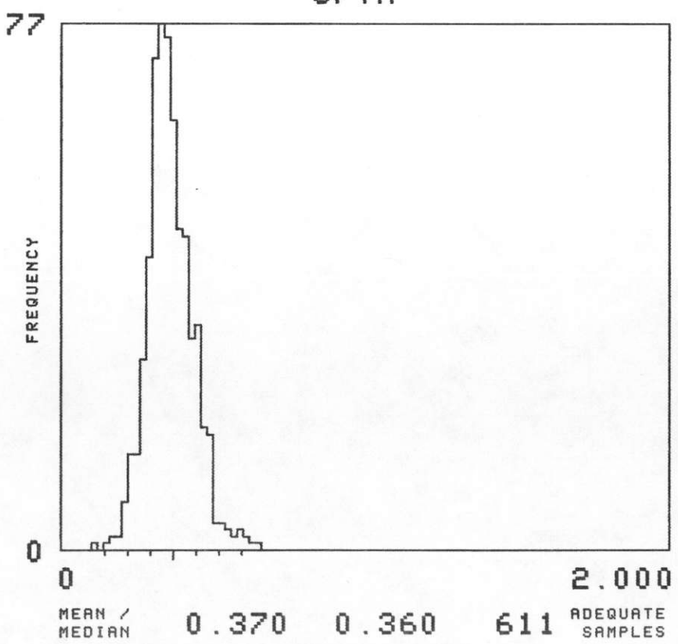
MEAN / MEDIAN 156.5 156.0 611 ADEQUATE SAMPLES

U/K



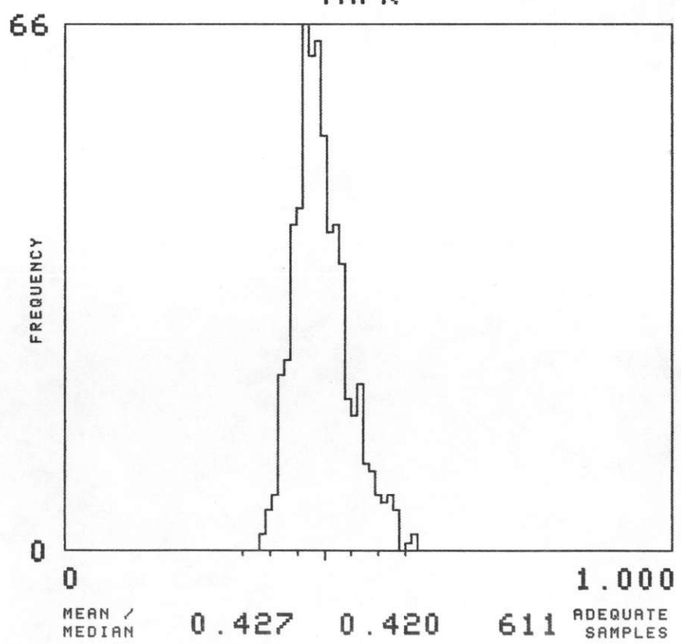
MEAN / MEDIAN 0.157 0.150 611 ADEQUATE SAMPLES

U/TH



MEAN / MEDIAN 0.370 0.360 611 ADEQUATE SAMPLES

TH/K



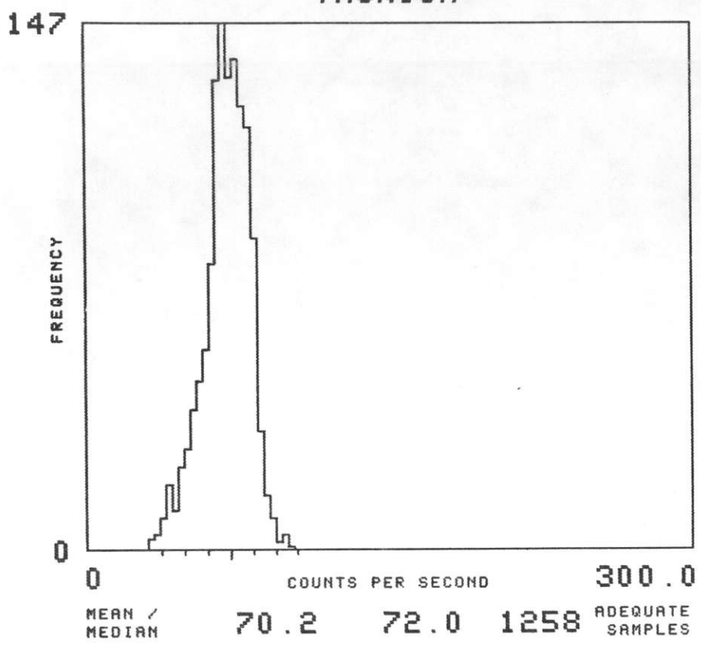
MEAN / MEDIAN 0.427 0.420 611 ADEQUATE SAMPLES

84SF

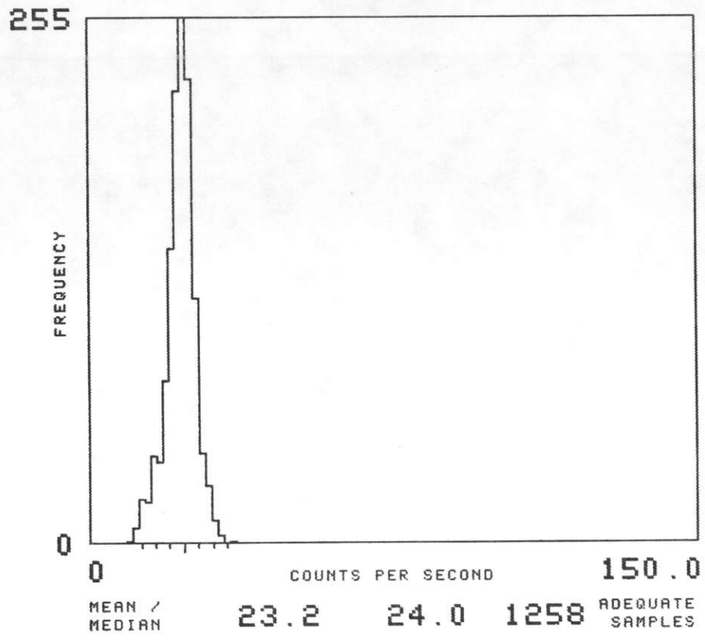
NTMS NI 13-2 SANTA FE

MAP UNIT : KC TOTAL NUMBER OF SAMPLES 1258

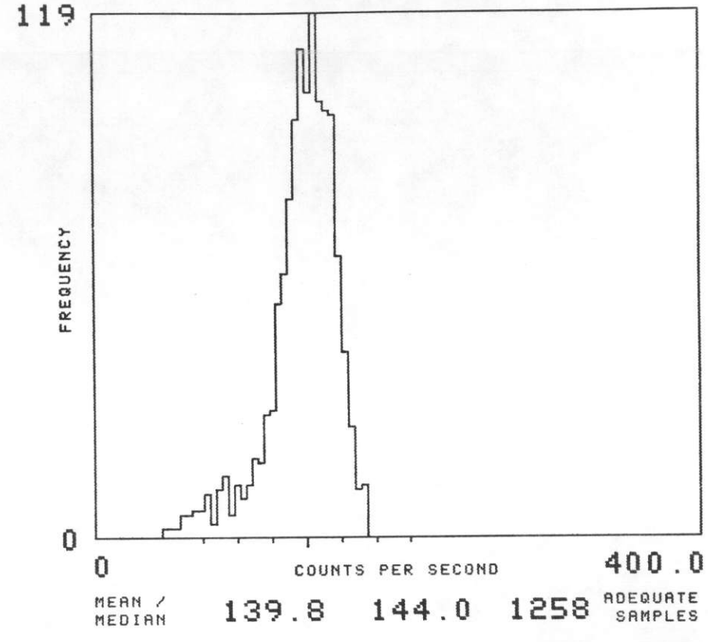
THORIUM



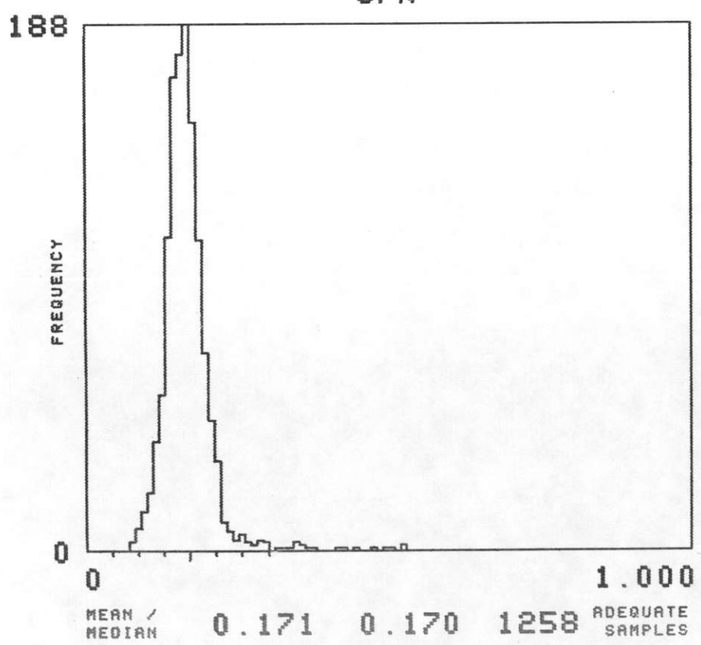
URANIUM



POTASSIUM



U/K



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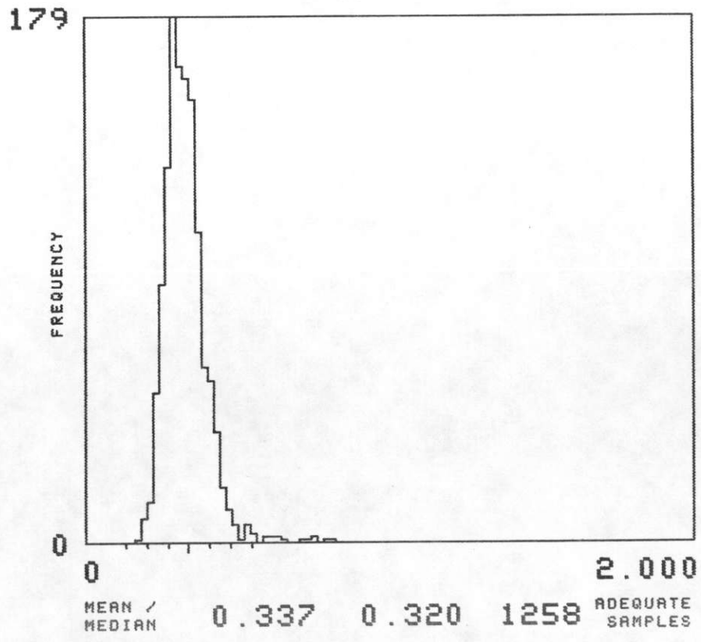
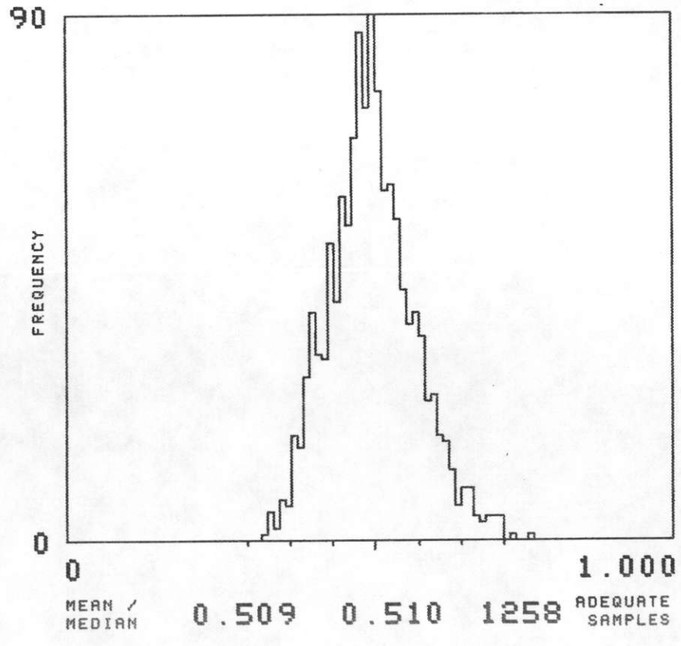


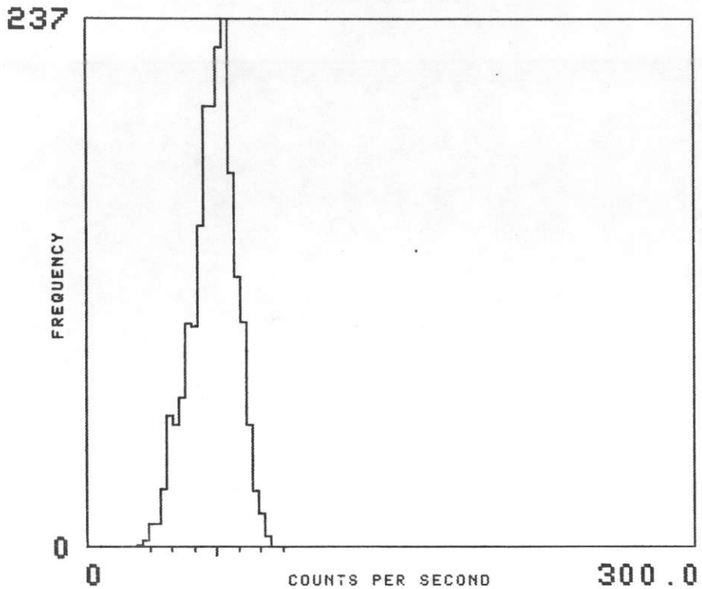
TH/K



NTMS NI 13-2 SANTA FE

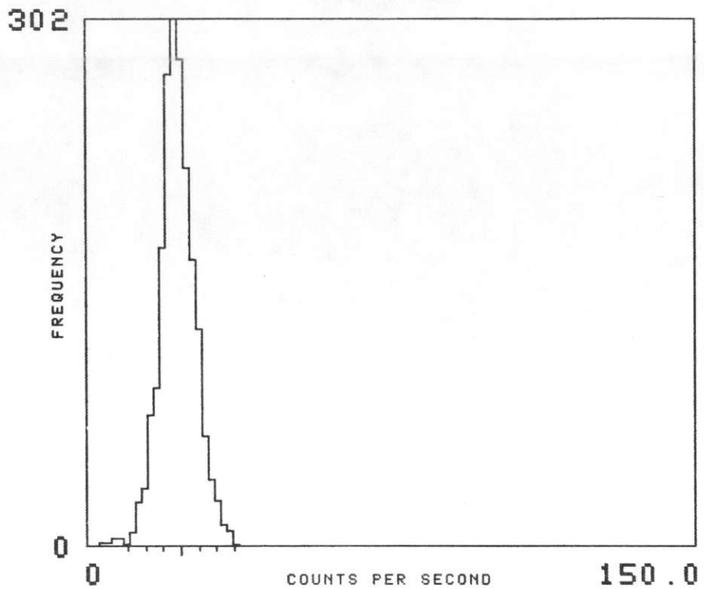
MAP UNIT : KGH TOTAL NUMBER OF SAMPLES 1921

THORIUM



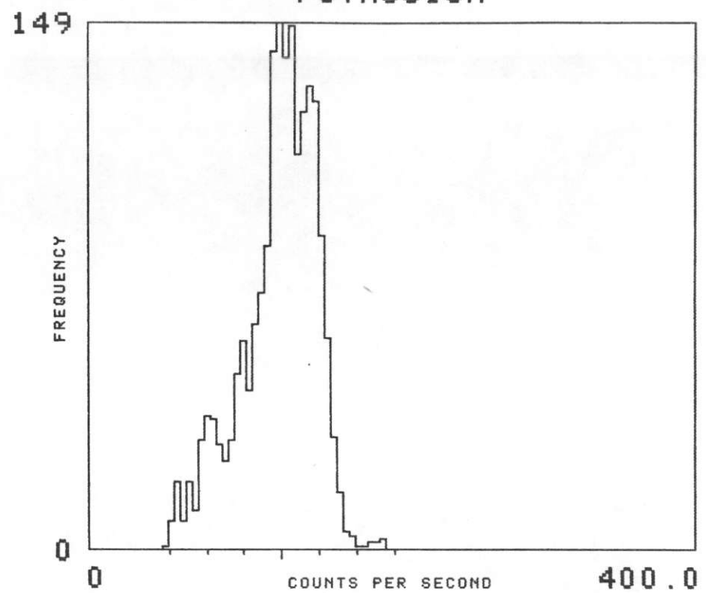
MEAN / MEDIAN 63.2 63.0 1921 ADEQUATE SAMPLES

URANIUM



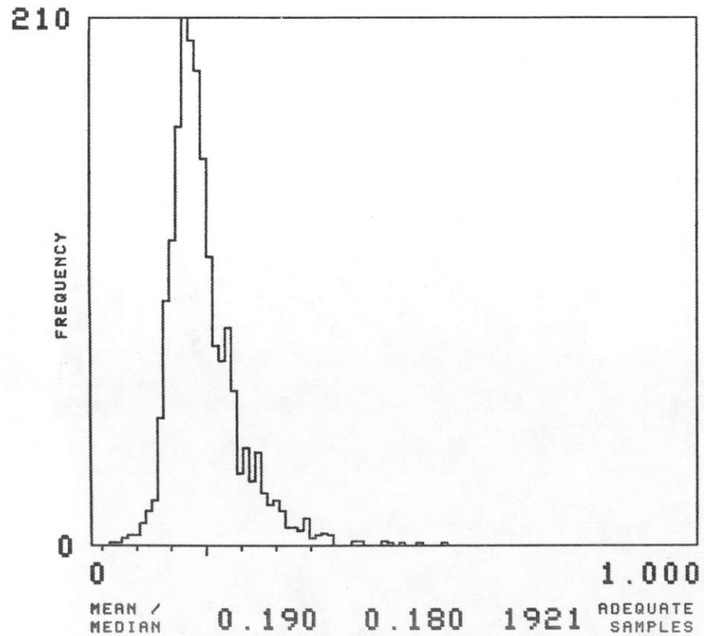
MEAN / MEDIAN 23.2 22.5 1921 ADEQUATE SAMPLES

POTASSIUM



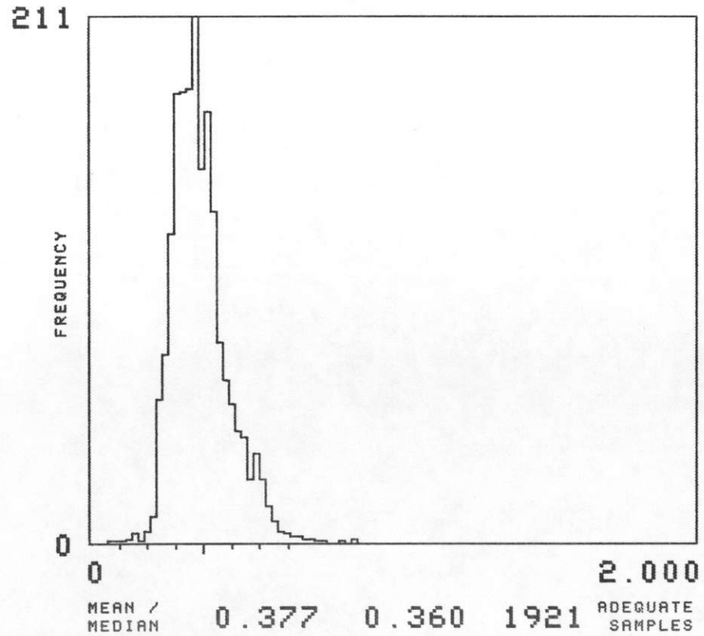
MEAN / MEDIAN 127.3 132.0 1921 ADEQUATE SAMPLES

U/K



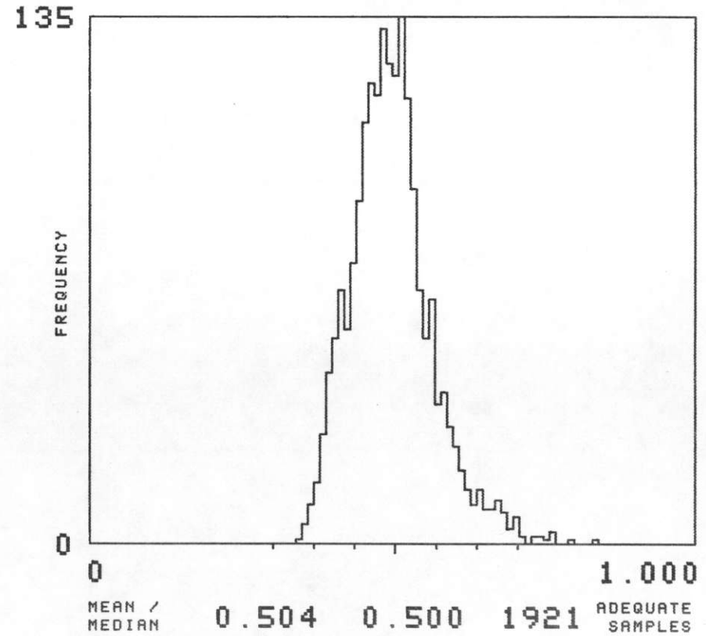
MEAN / MEDIAN 0.190 0.180 1921 ADEQUATE SAMPLES

U/TH



MEAN / MEDIAN 0.377 0.360 1921 ADEQUATE SAMPLES

TH/K

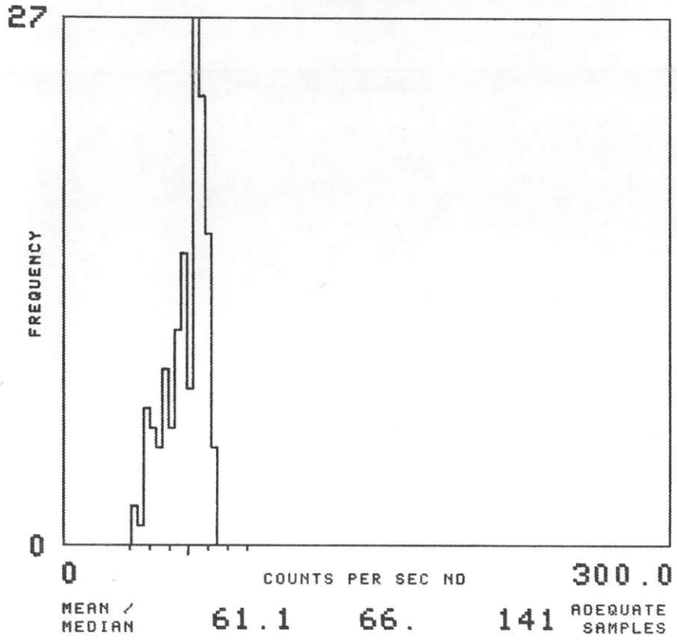


MEAN / MEDIAN 0.504 0.500 1921 ADEQUATE SAMPLES

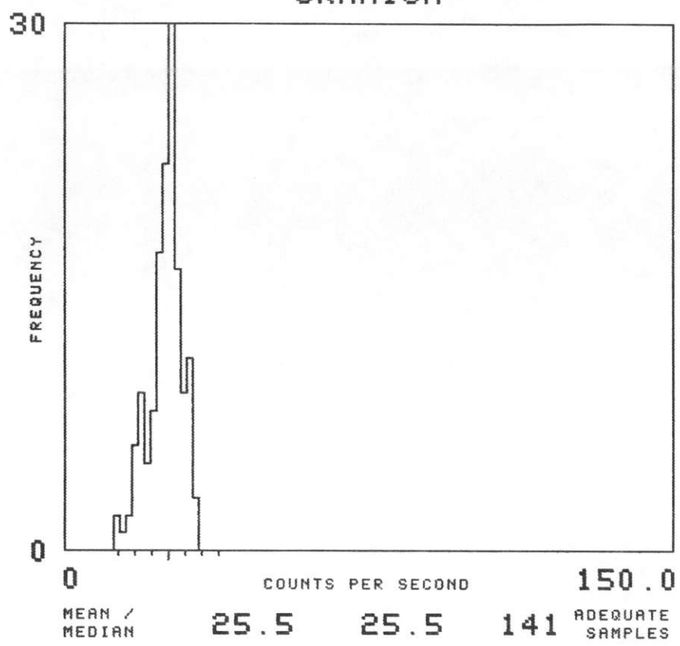
NTMS NI 13-2 SANTA FE

MAP UNIT : KGG TOTAL NUMBER OF SAMPLES 141

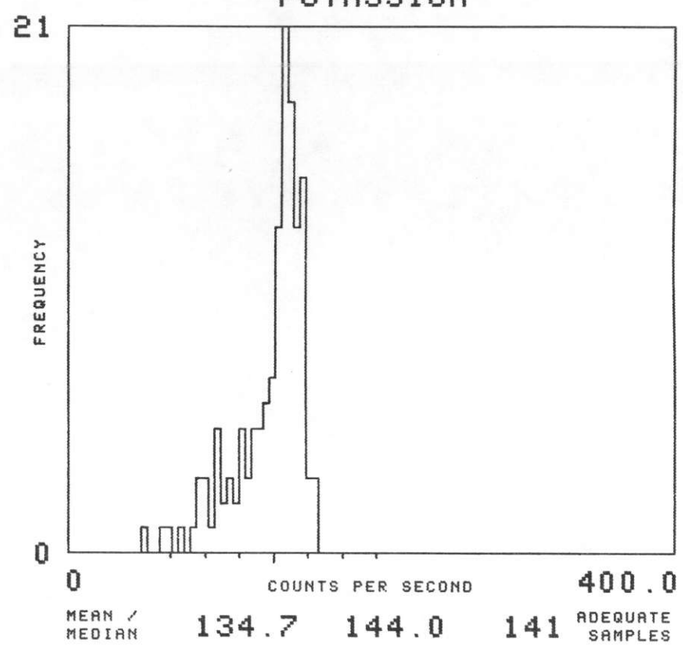
THORIU



URANIUM



POTASSIUM



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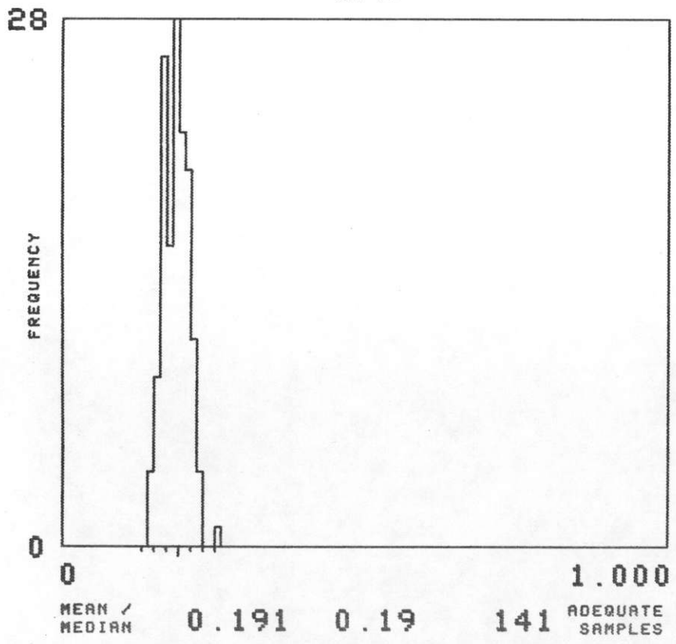

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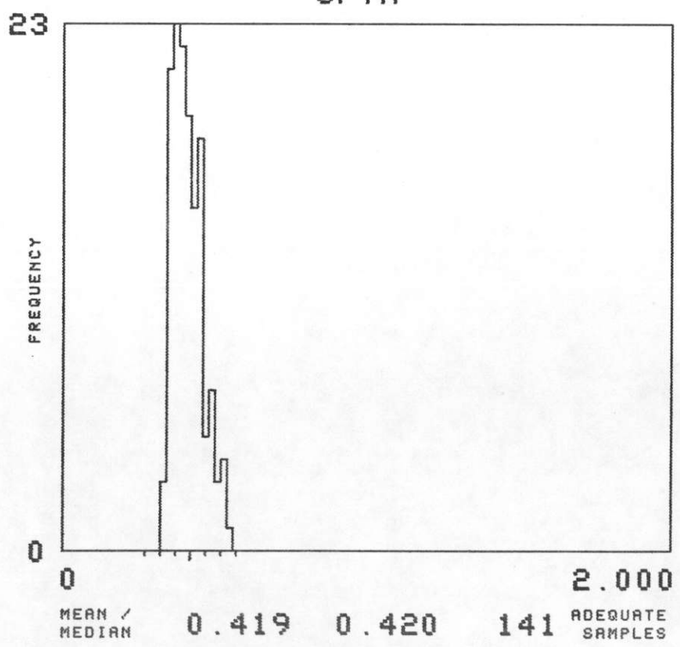
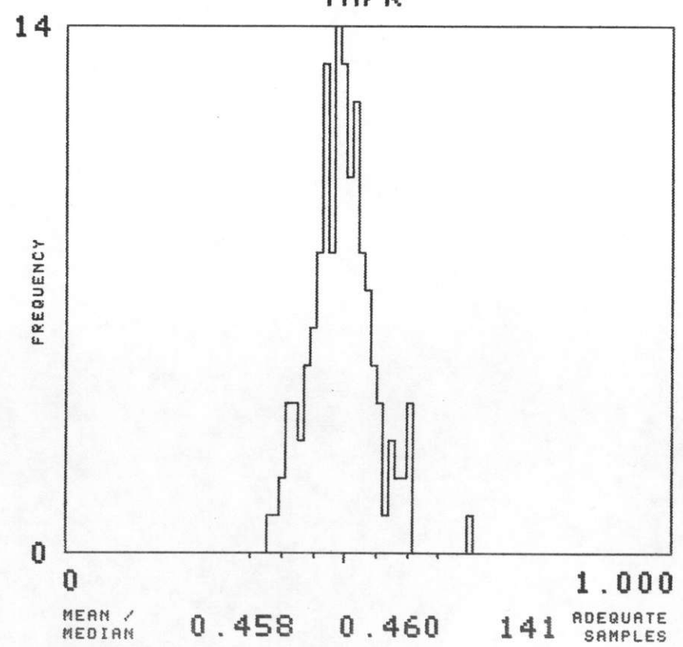


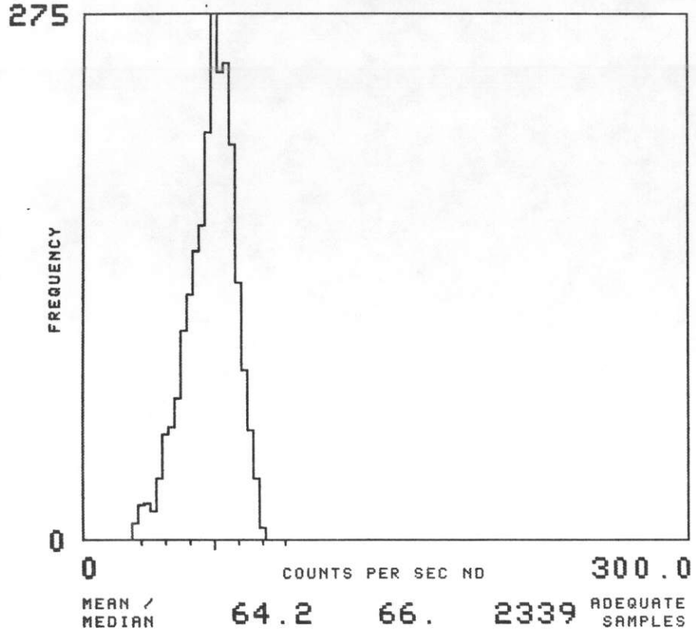
TH/K



NTMS NI 13-2 SAN A FE

MAP UNIT : KGR TOTAL NUMBER OF SAMPLES 2339

THORIU



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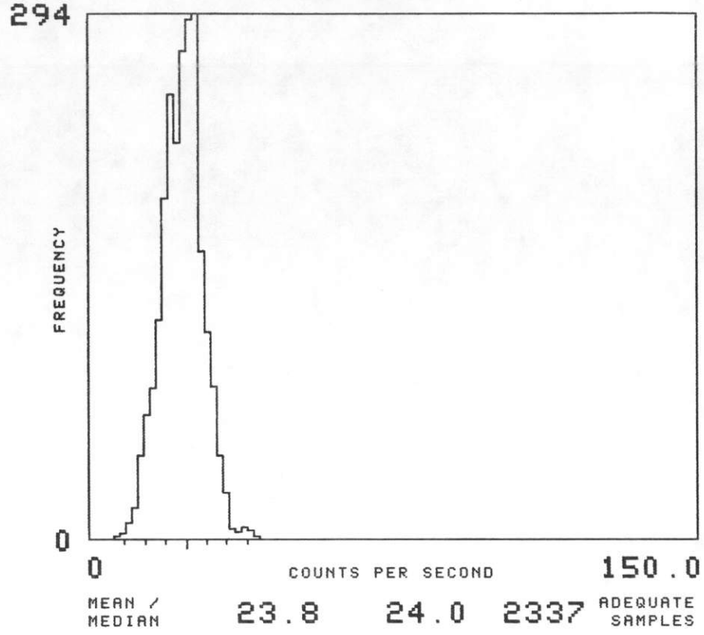

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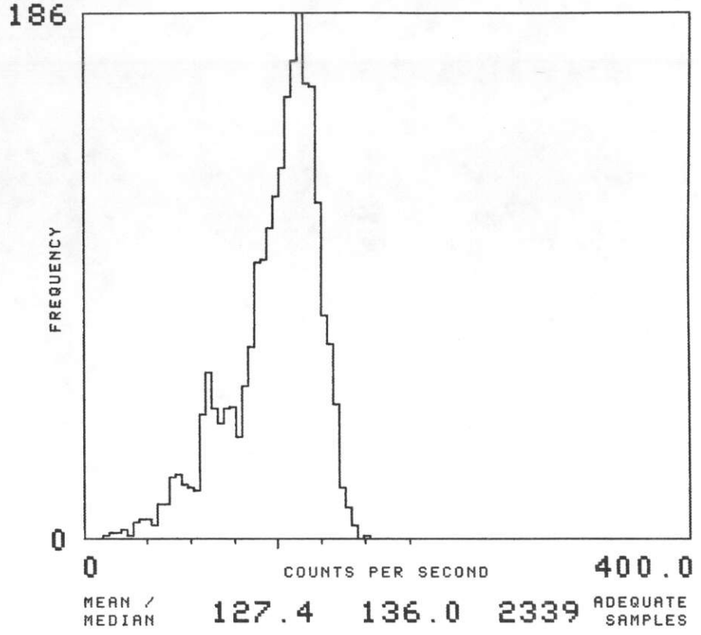

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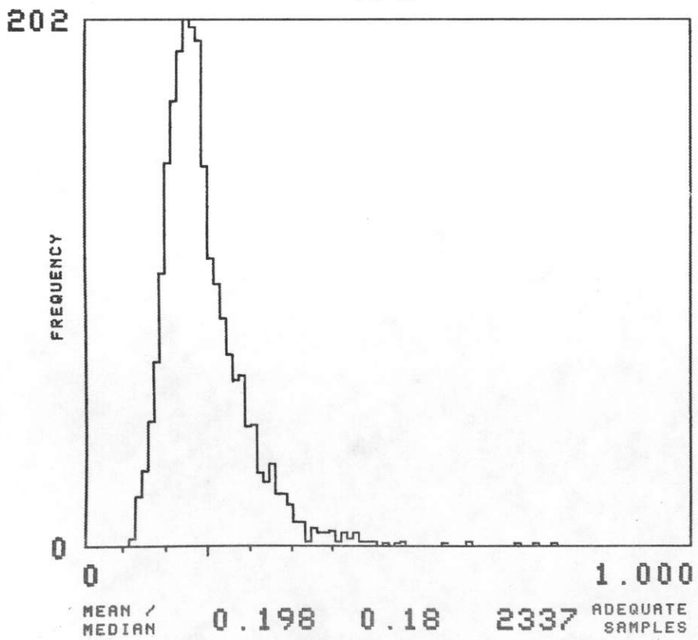

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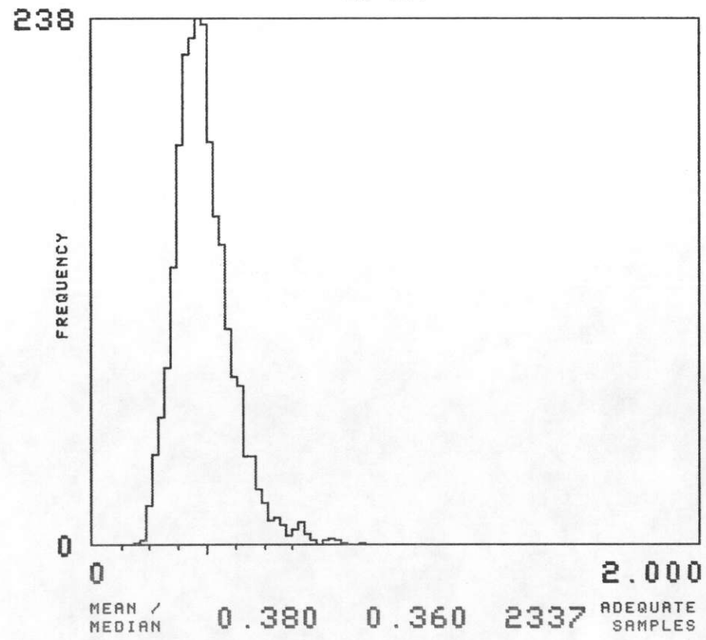
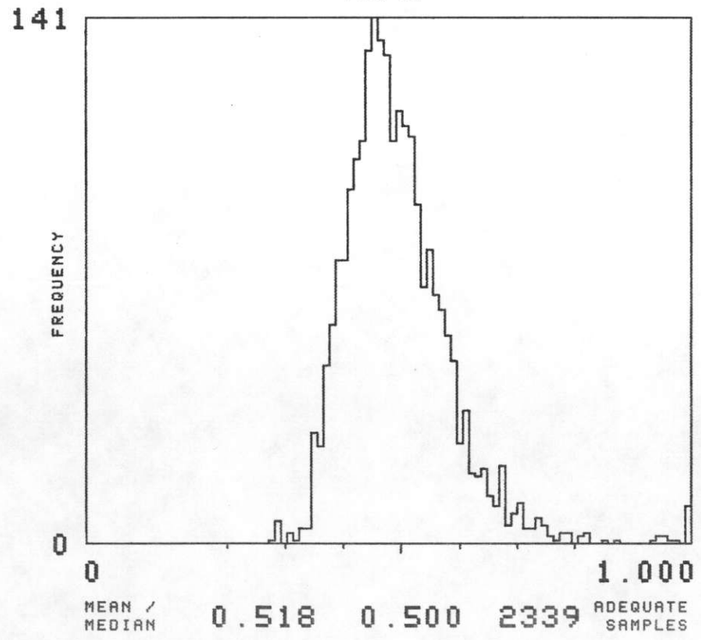


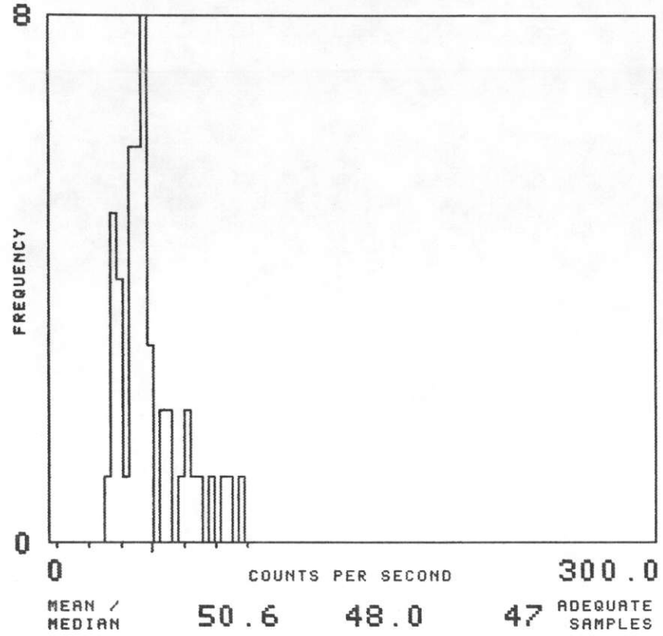
TH/K



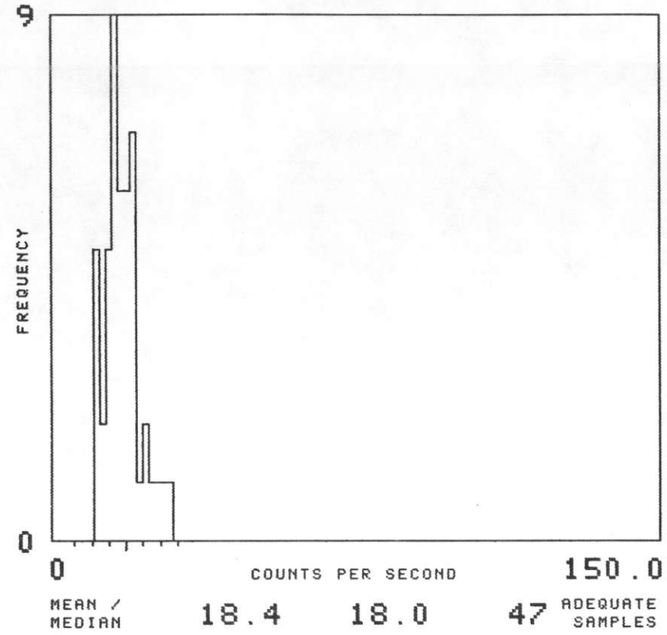
NTMS NI 13-2 SANTA FE

MAP UNIT : KGSD TOTAL NUMBER OF SAMPLES 47

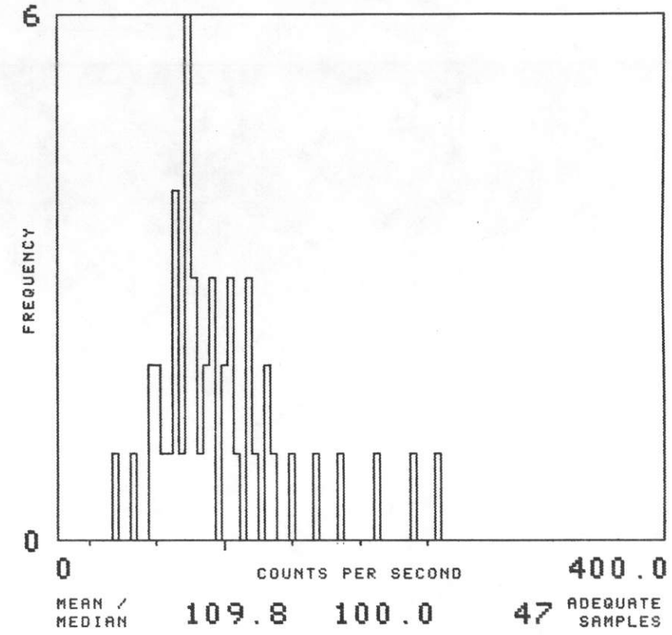
THORIUM



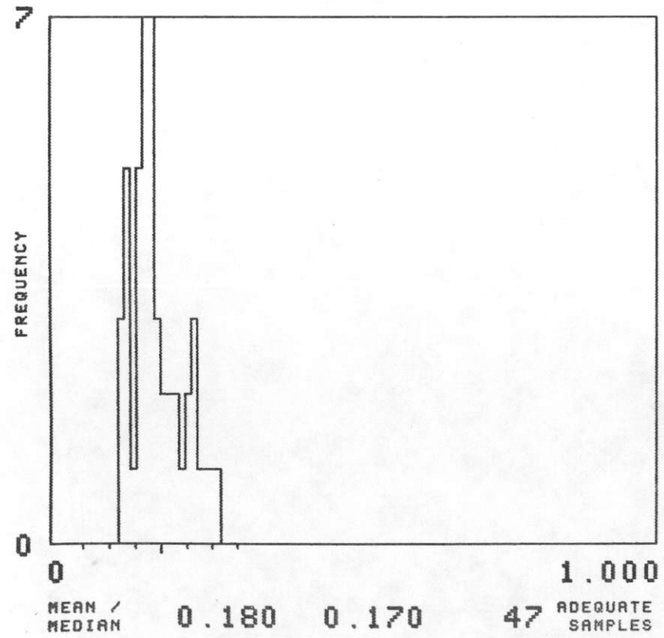
URANIUM



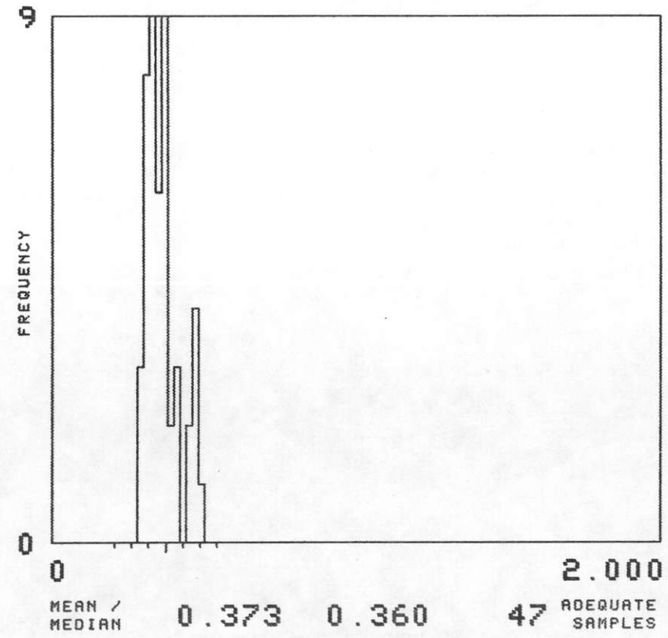
POTASSIUM



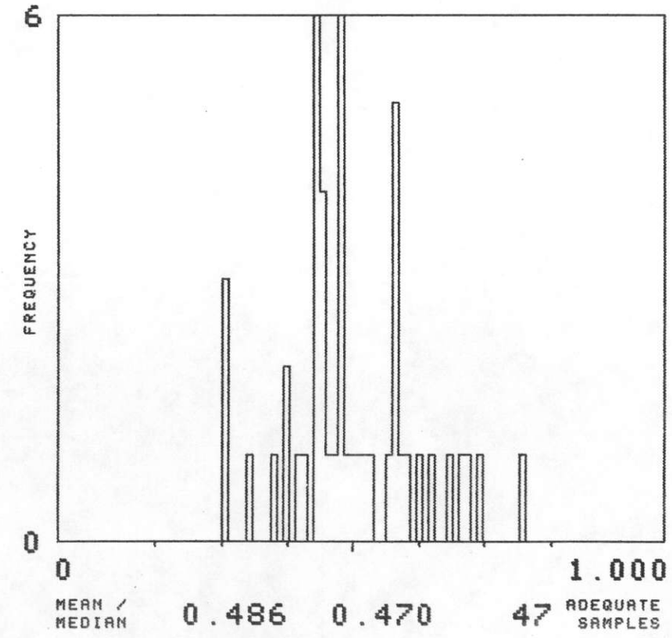
U/K



U/TH

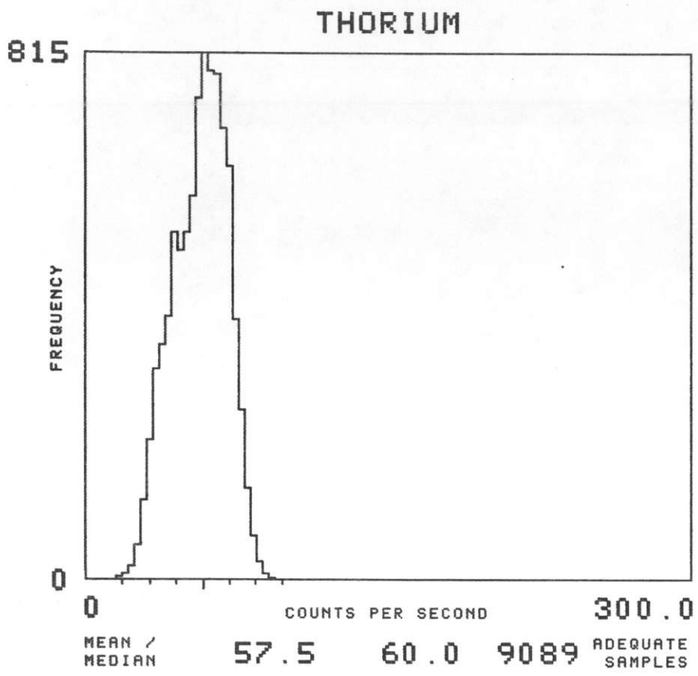


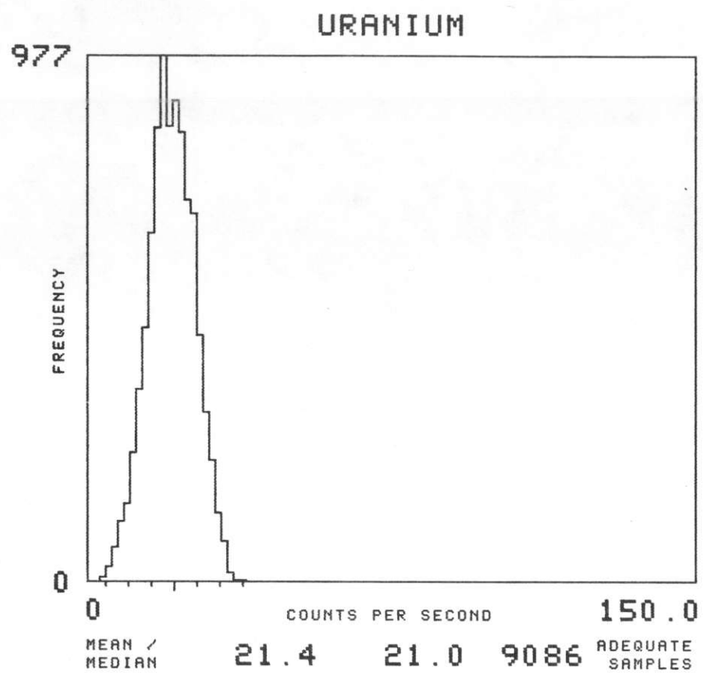
TH/K

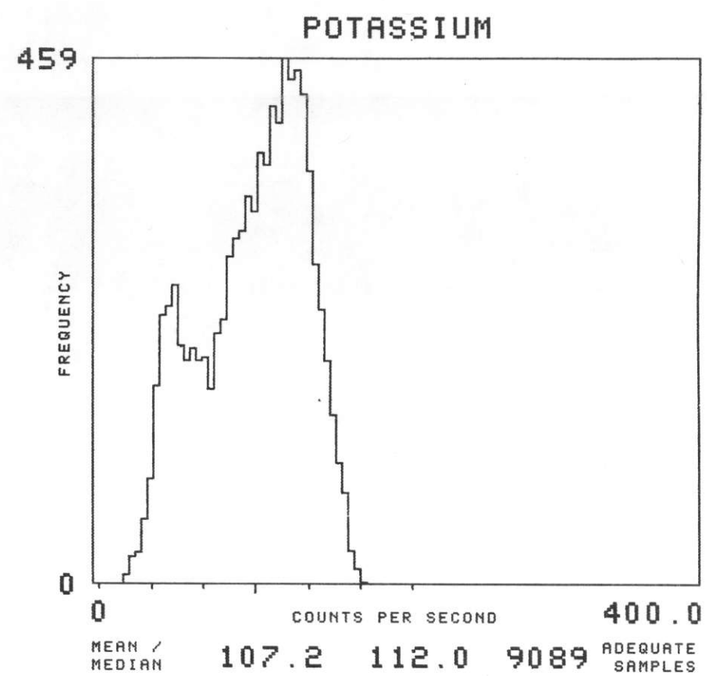


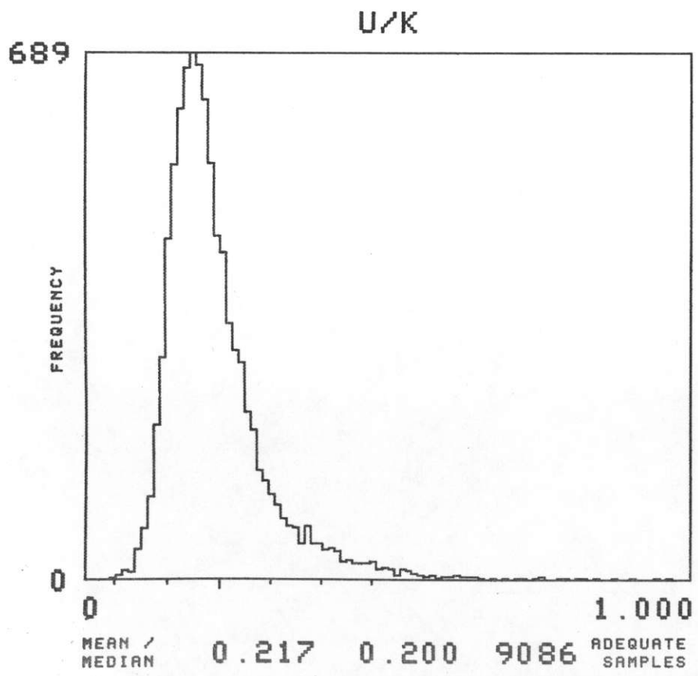
NTMS NI 13-2 SANTA FE

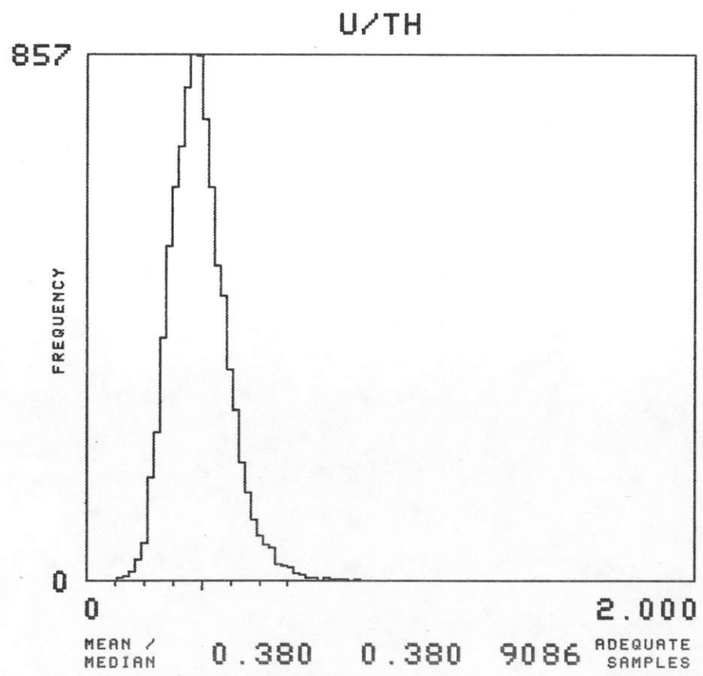
MAP UNIT : KD TOTAL NUMBER OF SAMPLES 9139

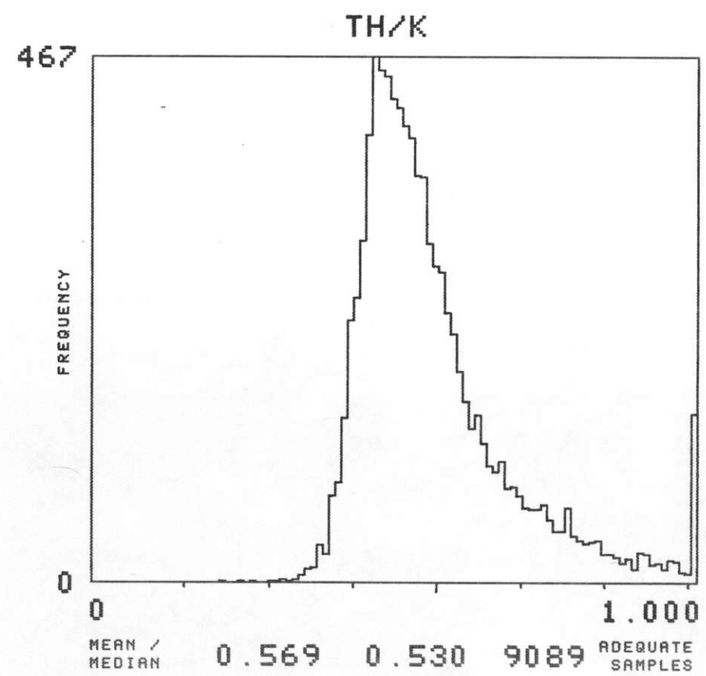












NTMS NI 13-2 SANTA FE

MAP UNIT : KDPM TOTAL NUMBER OF SAMPLES 1229

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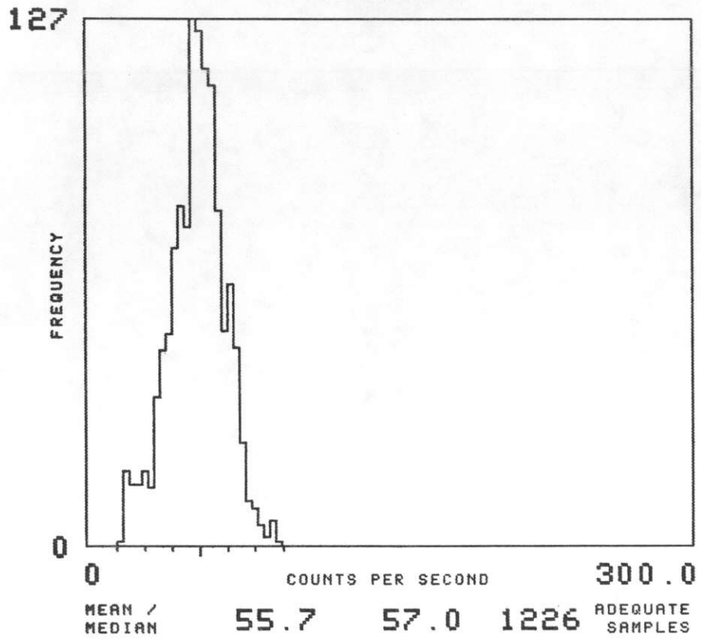

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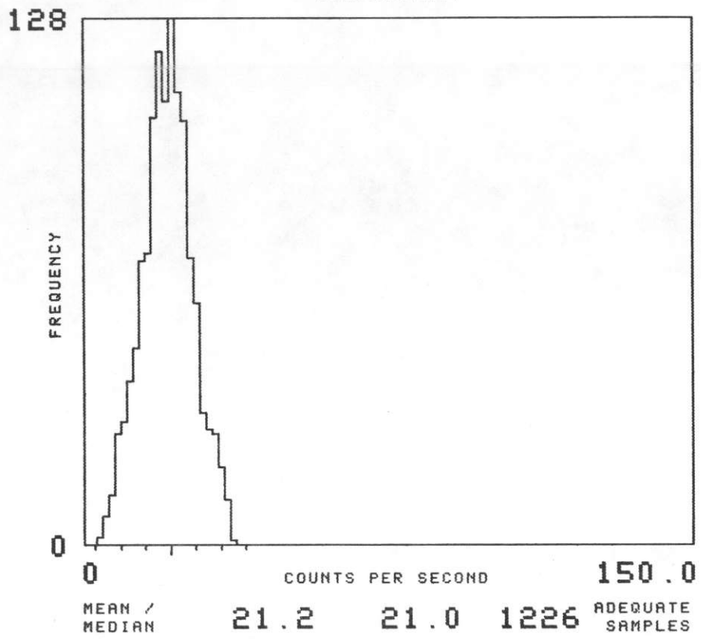

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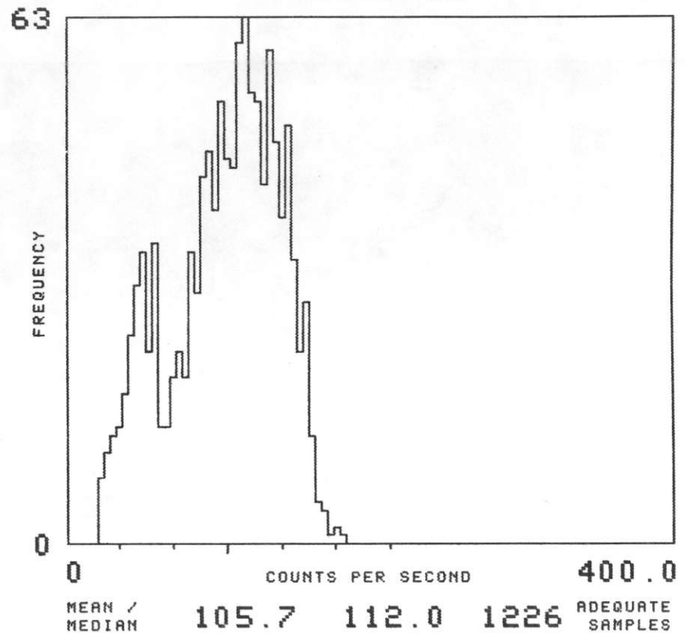

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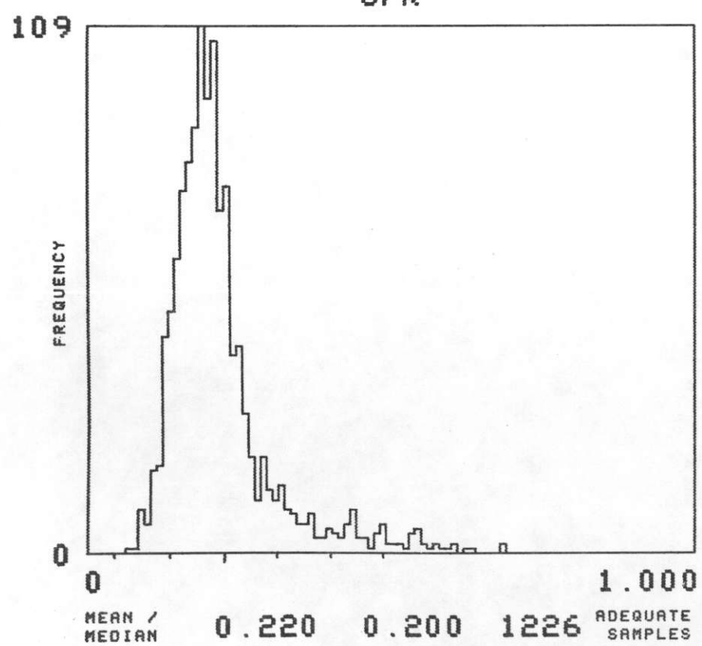

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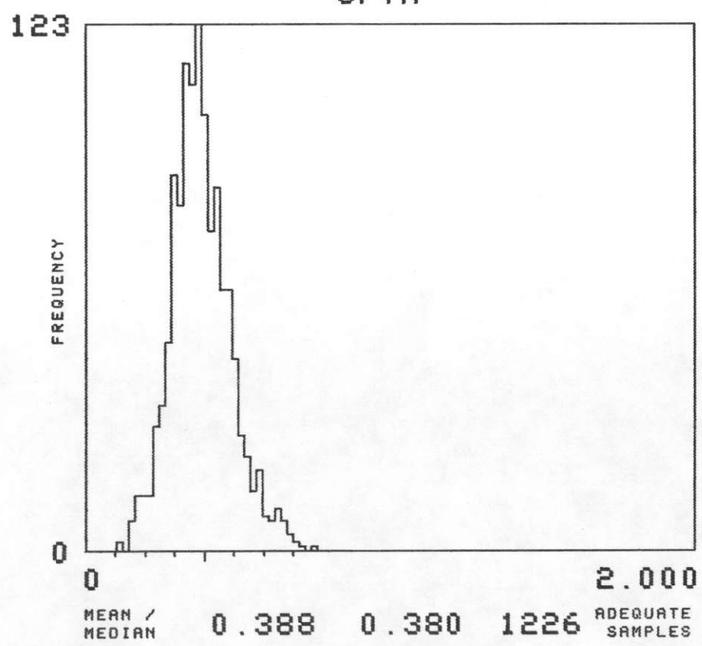

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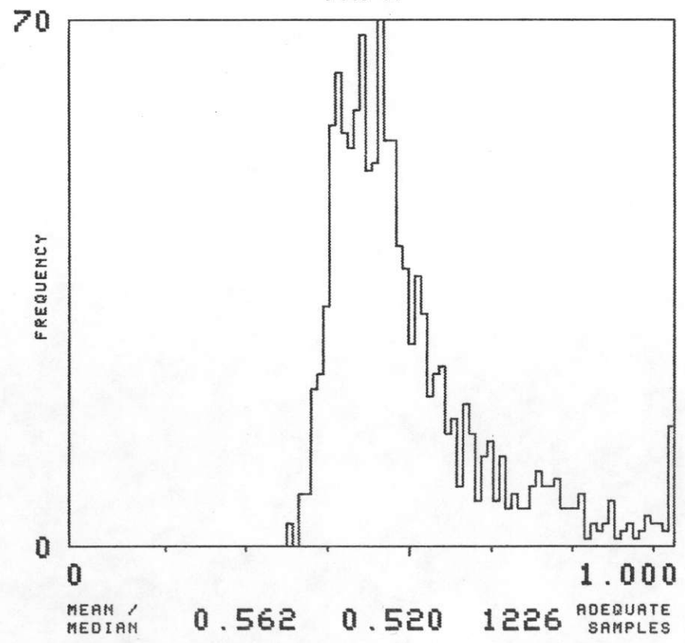

NTMS NI 13-2 SANTA FE

MAP UNIT : KPA TOTAL NUMBER OF SAMPLES 717

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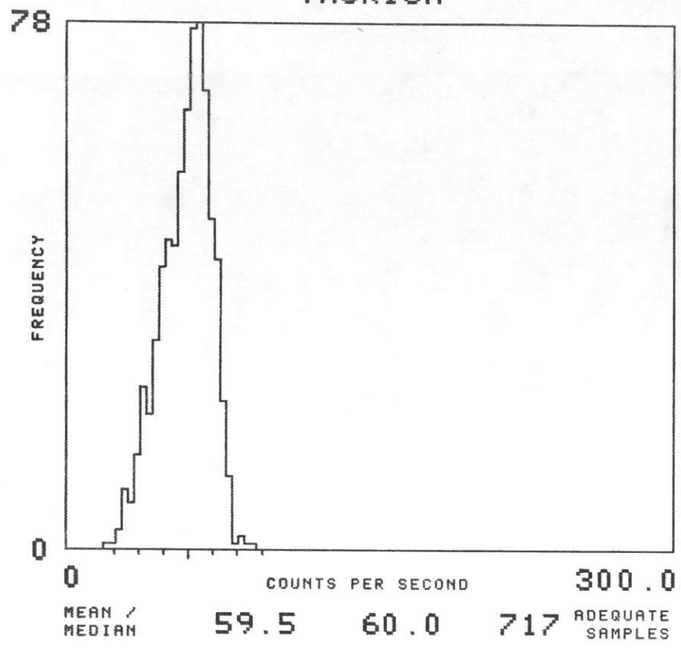

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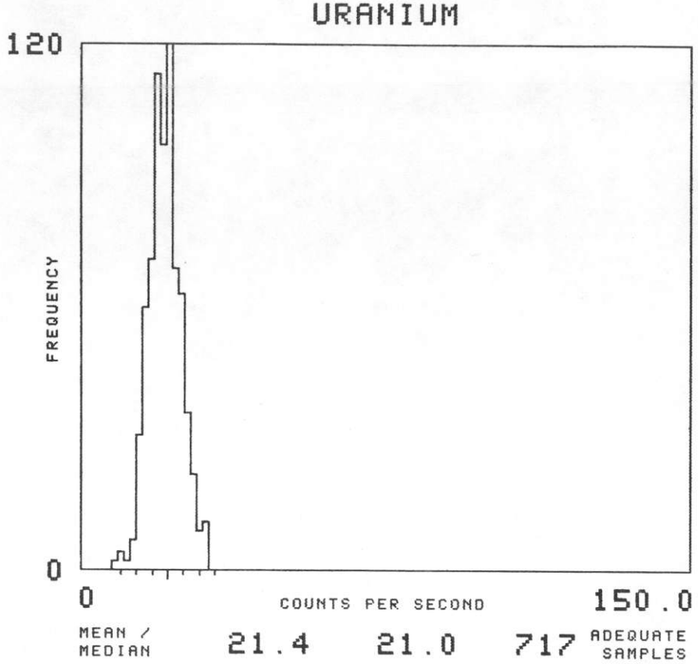

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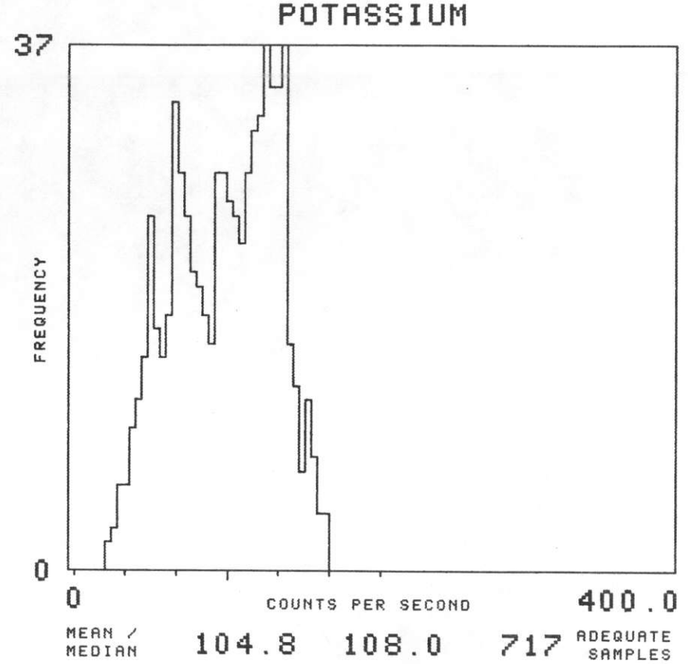

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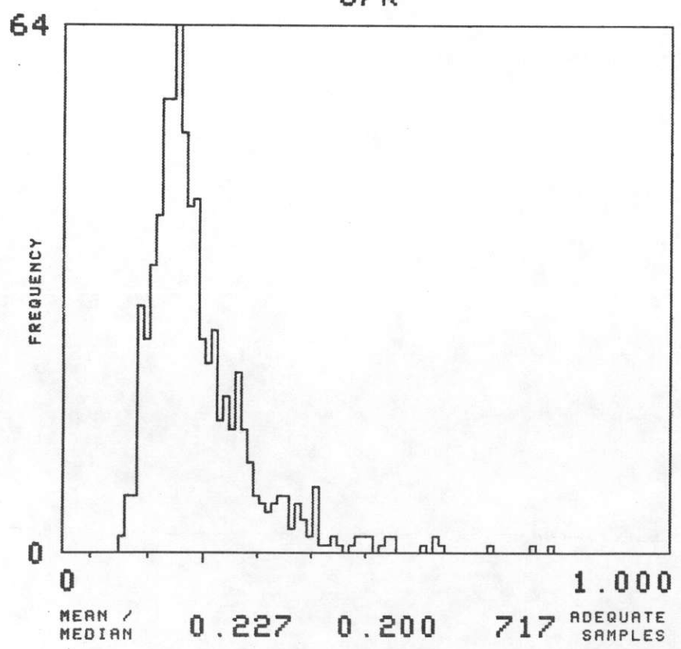

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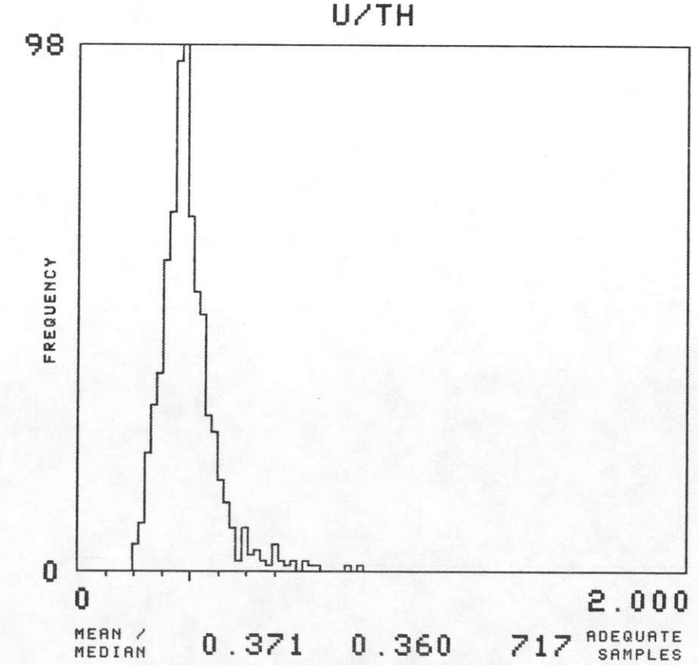
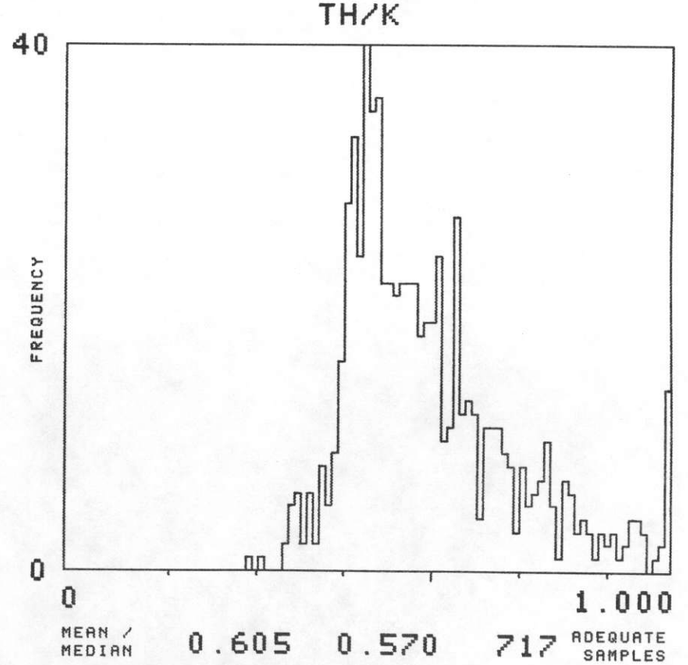


TH/K



NTMS NI 13-2 SANTA FE

MAP UNIT : KMR TOTAL NUMBER OF SAMPLES 2207

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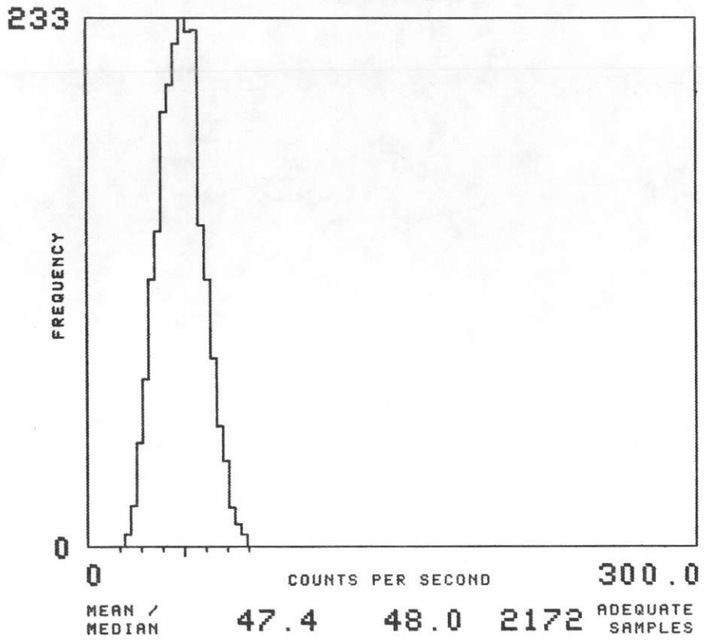

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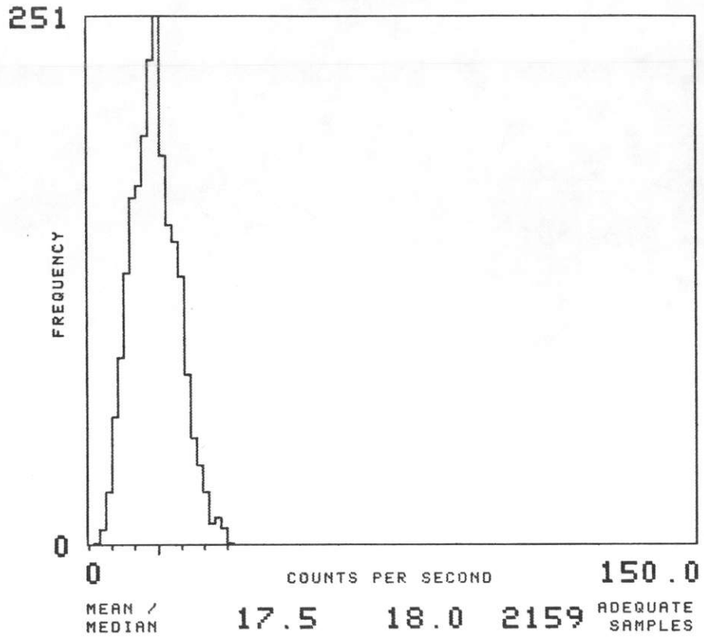

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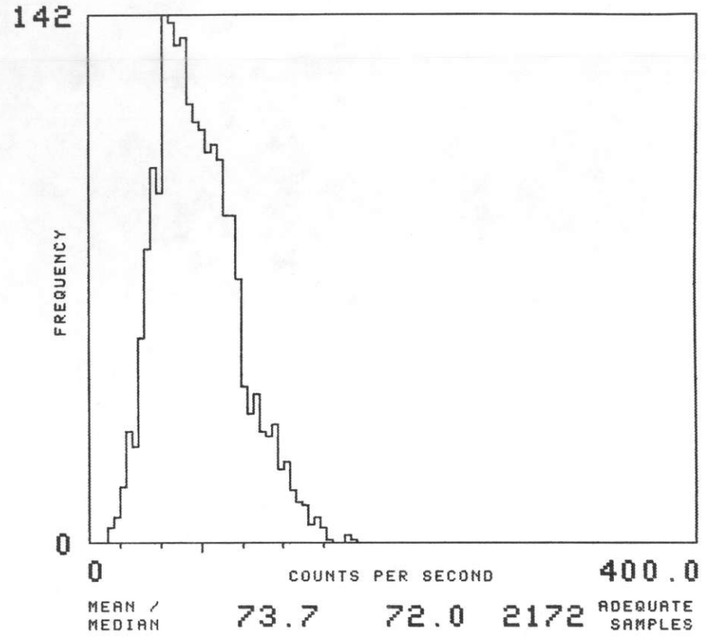

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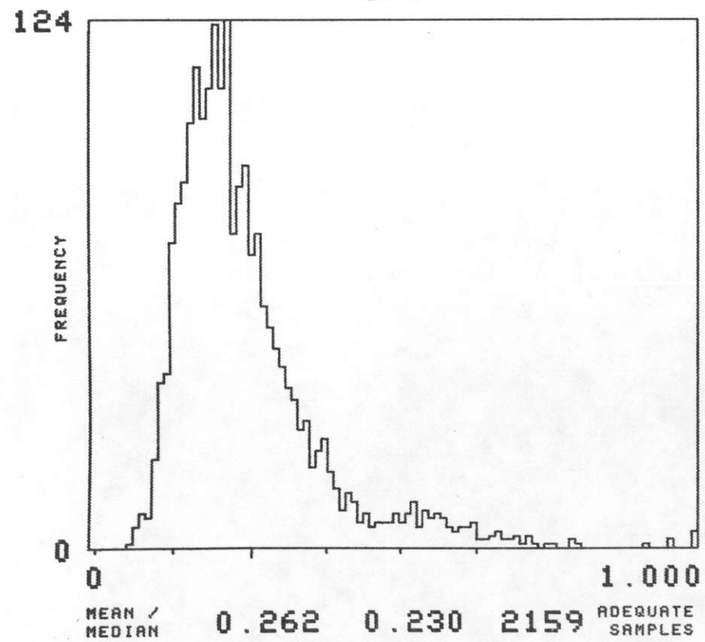

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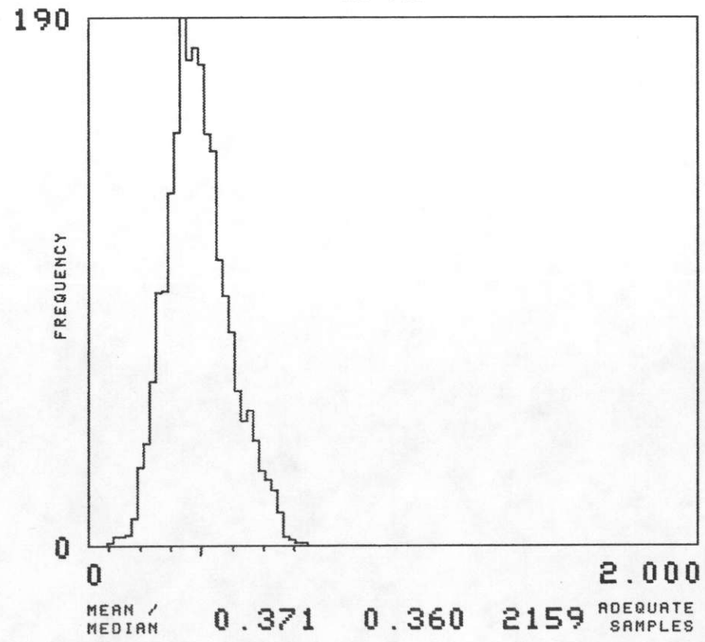

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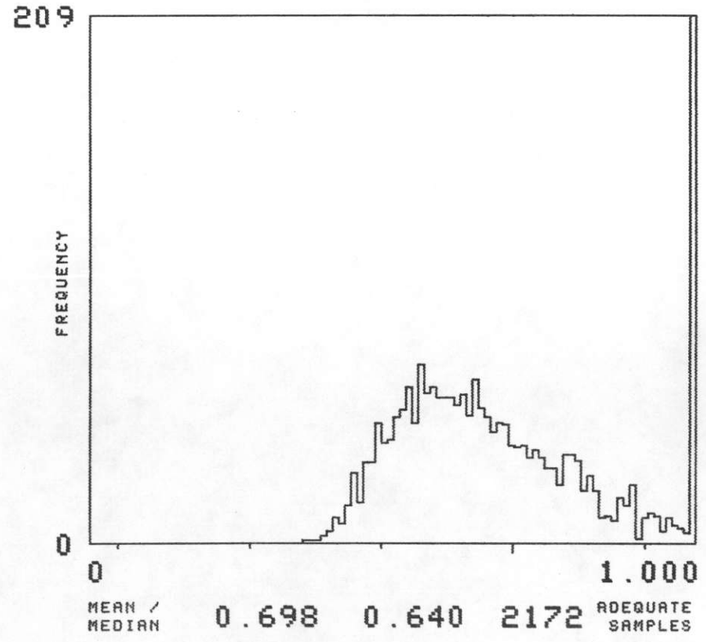

93SF

NTMS NI 13-2 SANTA FE

MAP UNIT : J TOTAL NUMBER OF SAMPLES 2893

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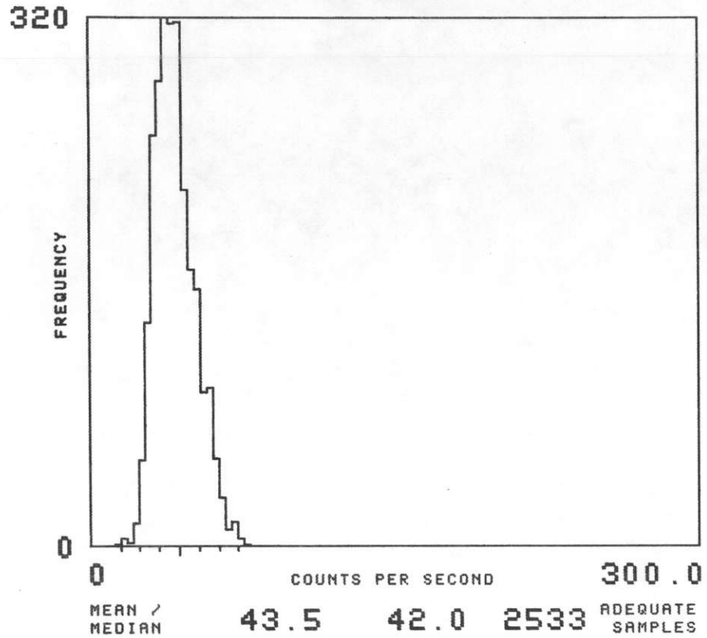
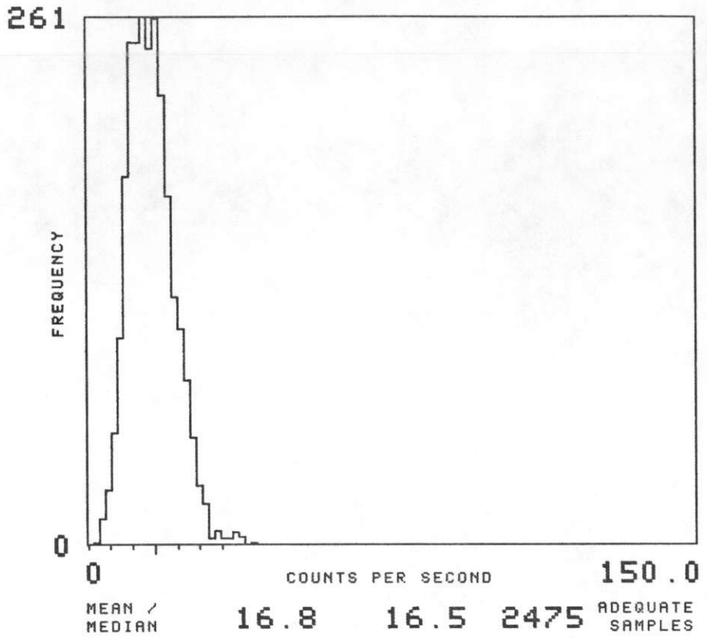


MEAN / MEDIAN 43.5 42.0 2533 ADEQUATE SAMPLES

URANIUM



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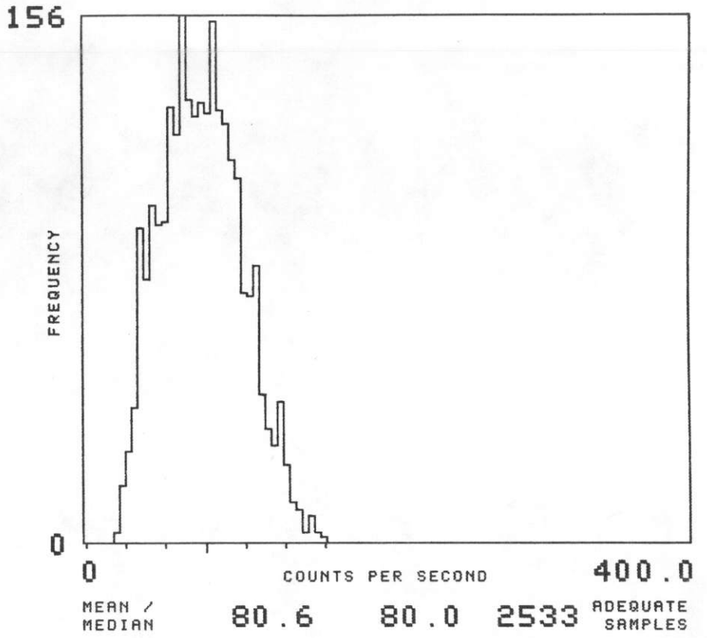
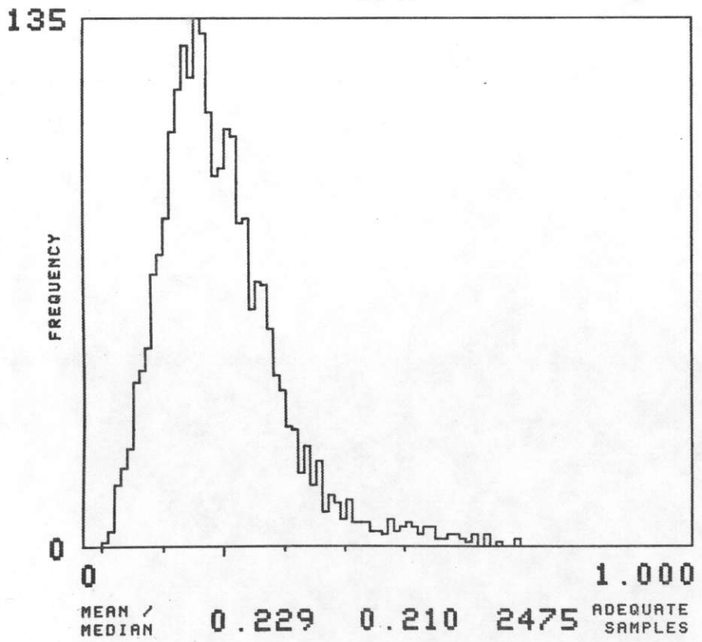
POTASSIUM



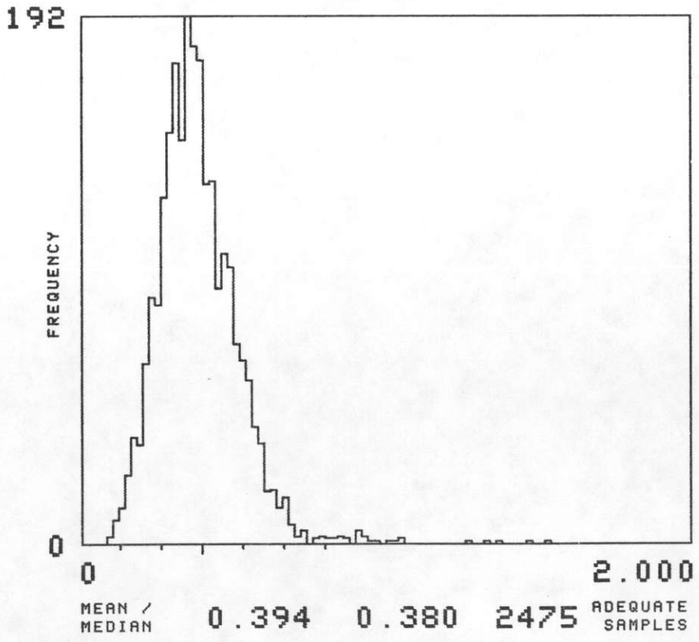
MEAN / MEDIAN 80.6 80.0 2533 ADEQUATE SAMPLES

U/K



MEAN / MEDIAN 0.229 0.210 2475 ADEQUATE SAMPLES

U/TH



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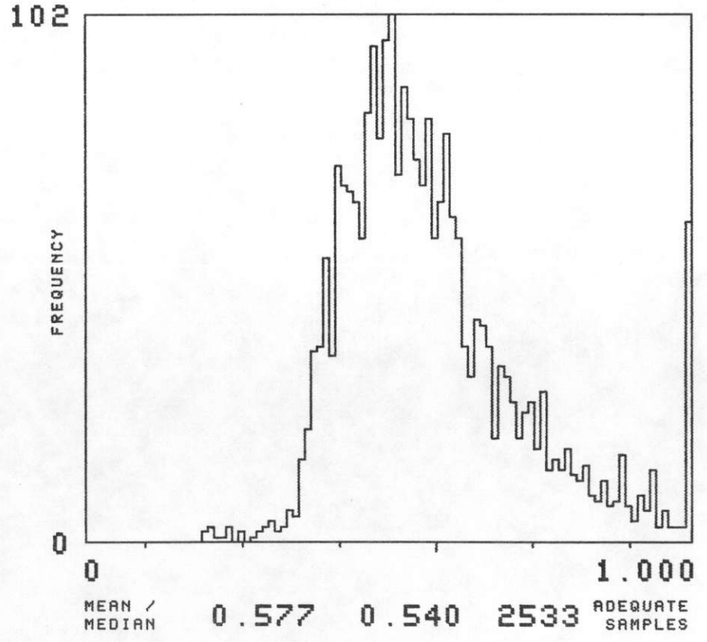
TH/K



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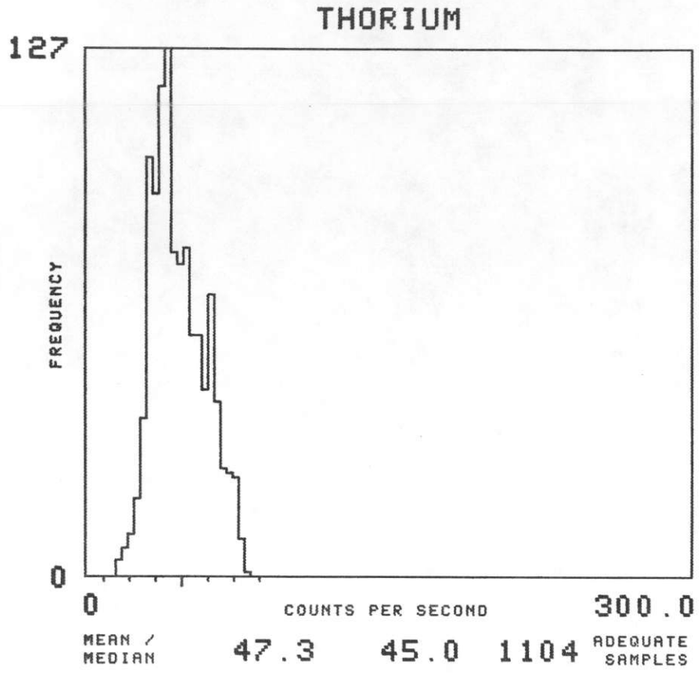
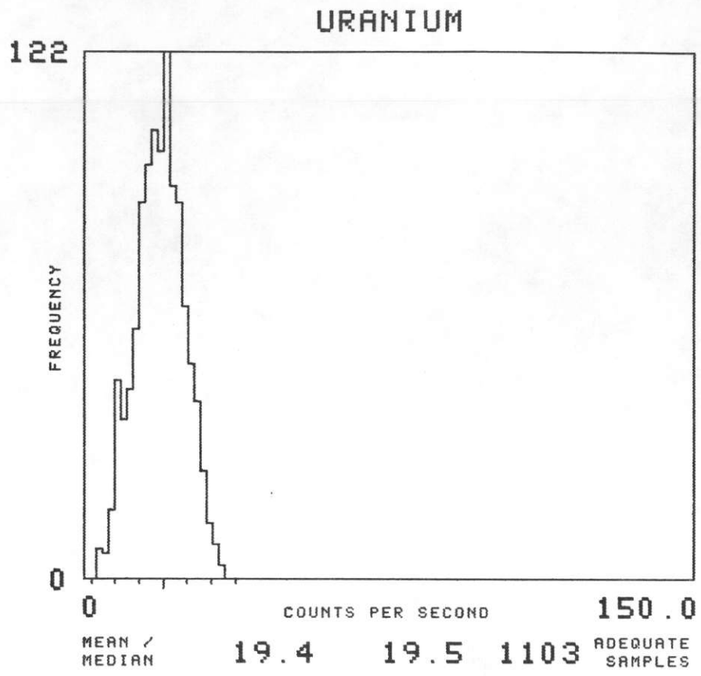
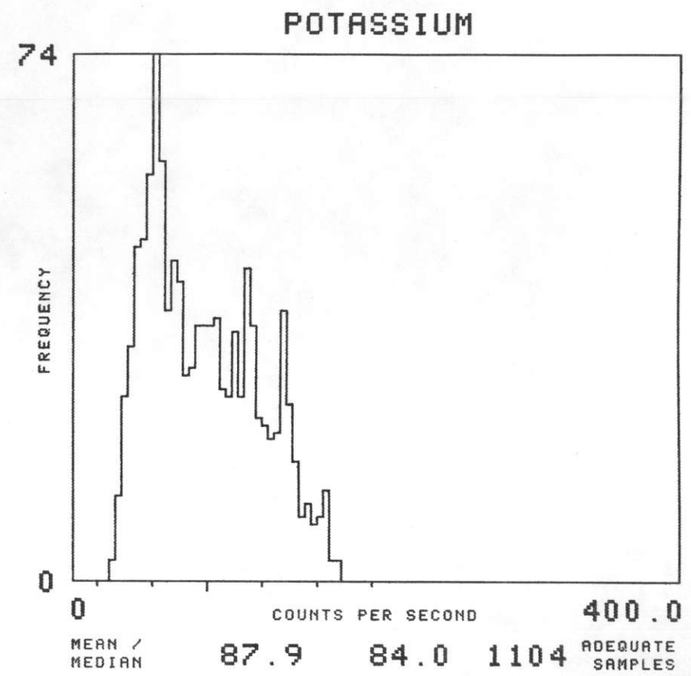
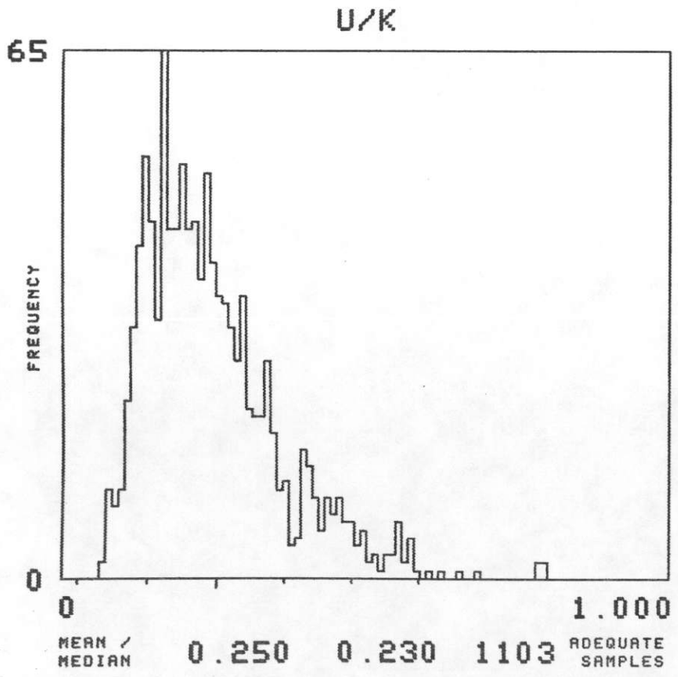
NTMS NI 13-2 SANTA FE

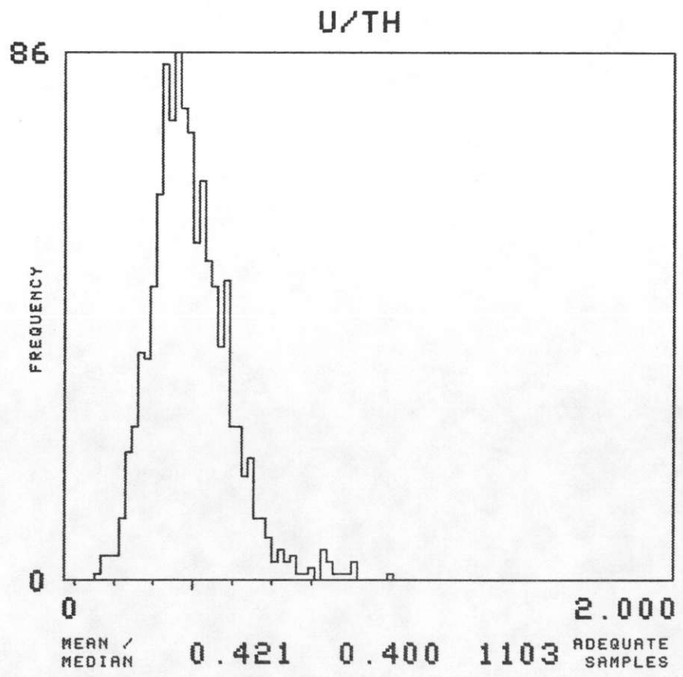
MAP UNIT : JM TOTAL NUMBER OF SAMPLES 1258

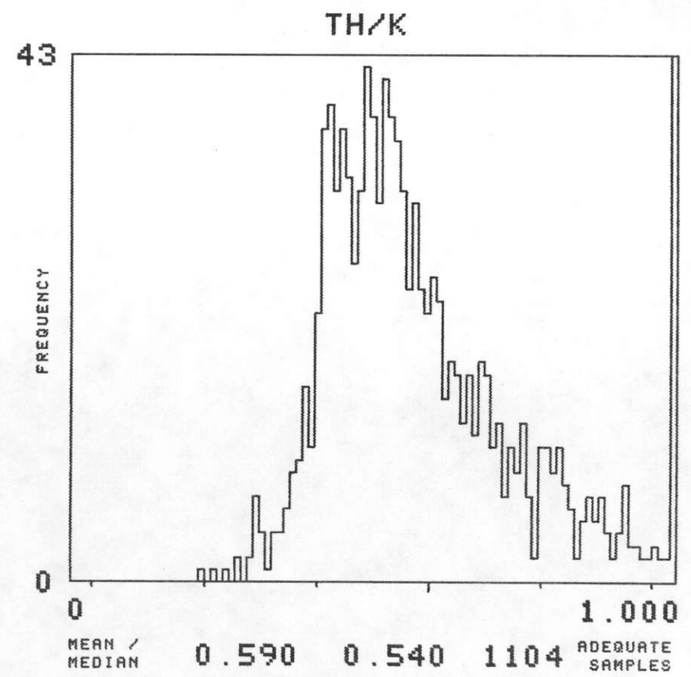








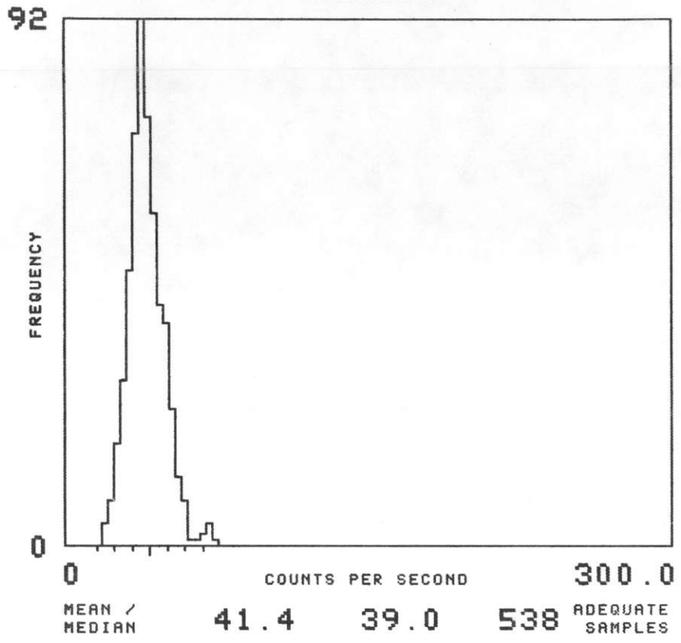




NTMS NI 13-2 SANTA FE

MAP UNIT : JSR TOTAL NUMBER OF SAMPLES 711

THORIUM



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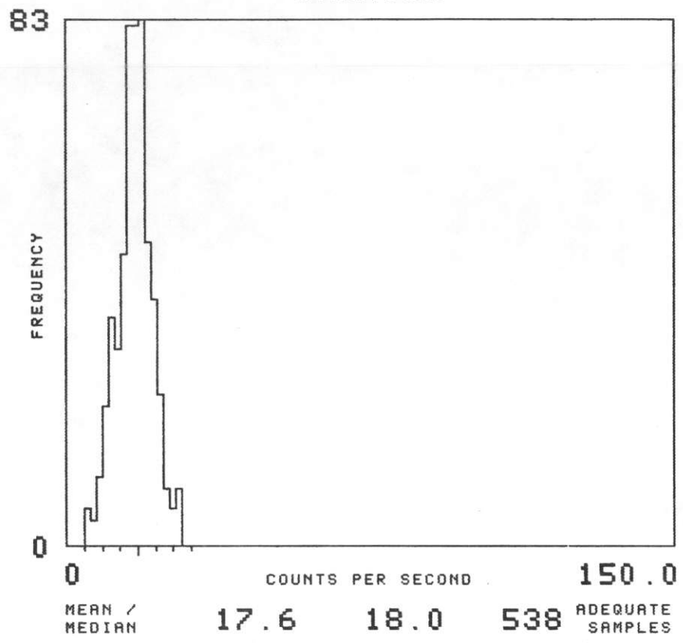
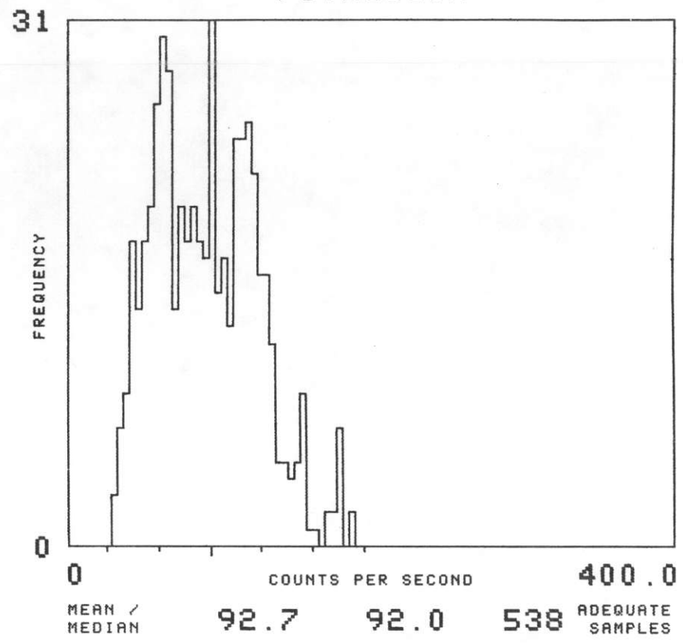
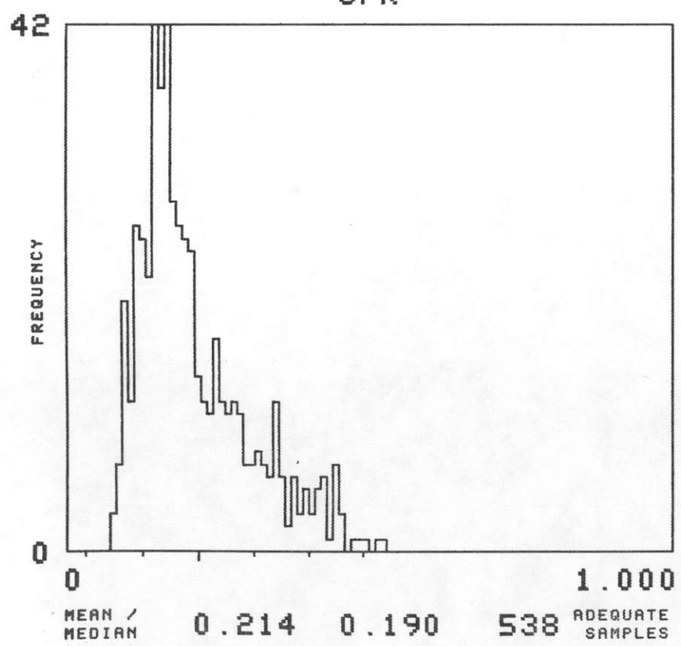


POTASSIUM



U/K



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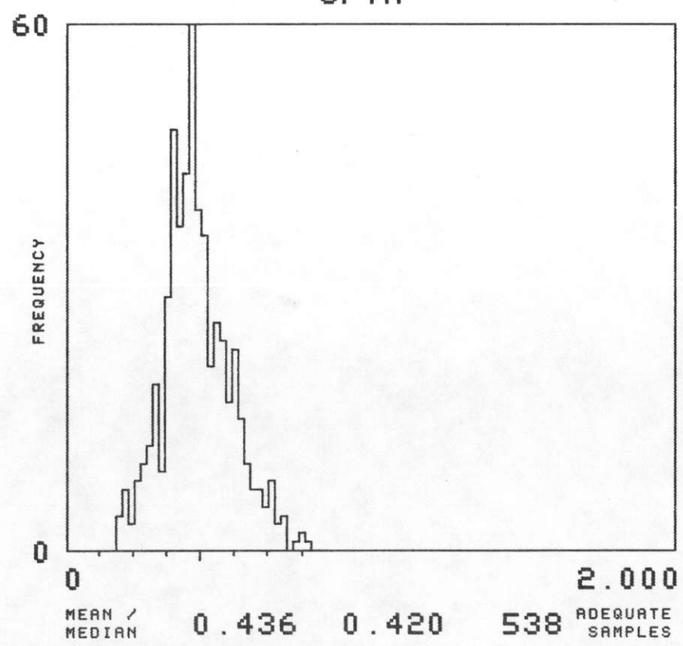

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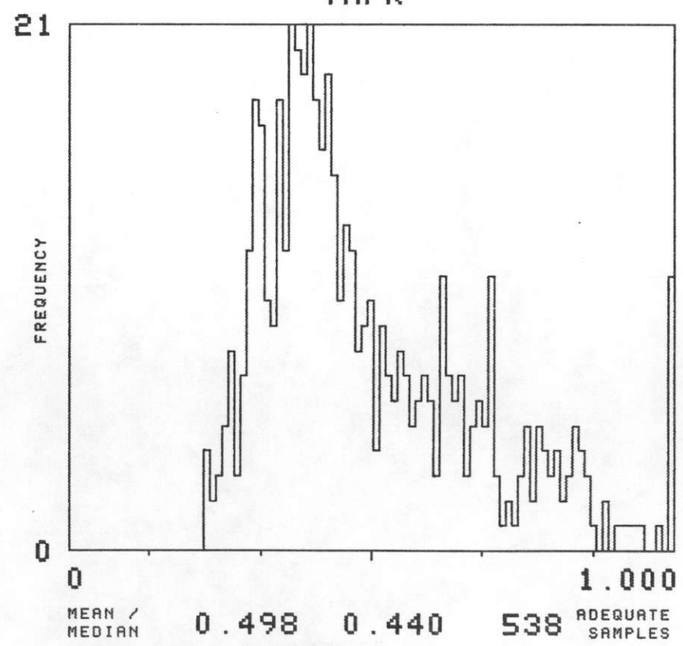

NTMS NI 13-2 SANTA FE

MAP UNIT : JTR TOTAL NUMBER OF SAMPLES 38

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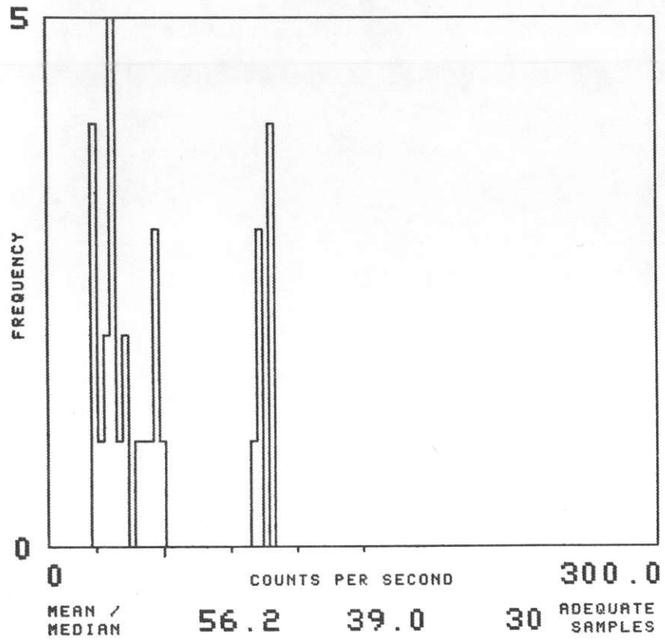

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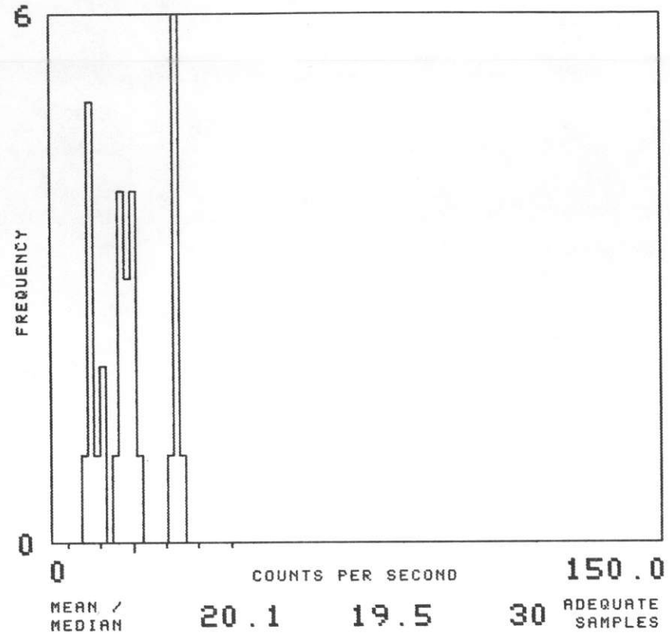

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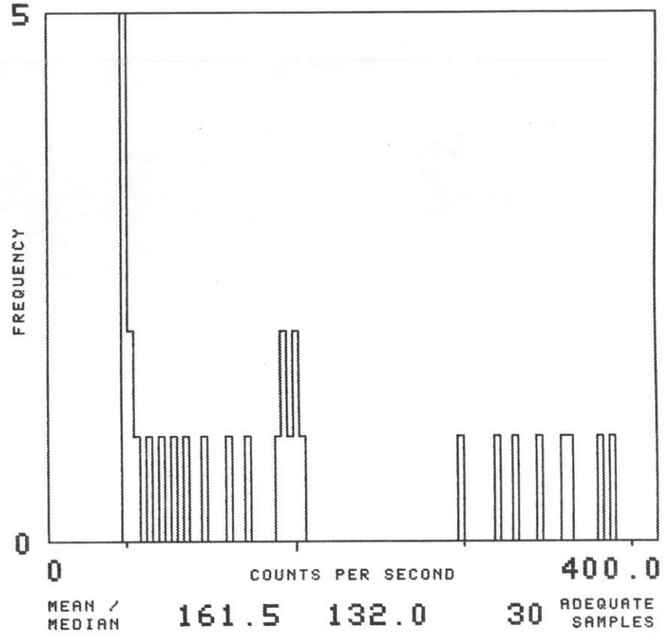

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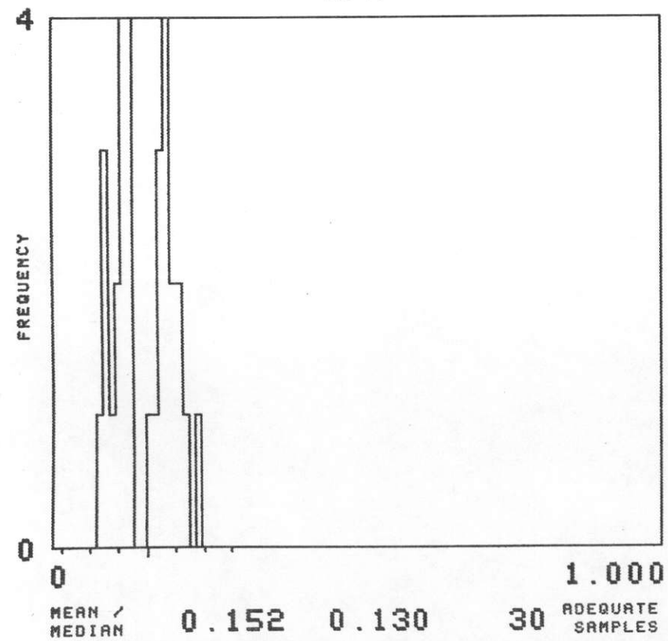

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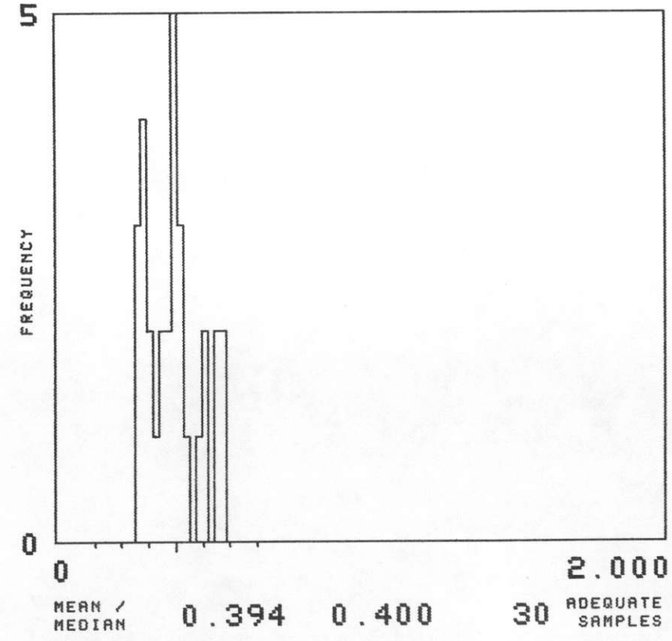

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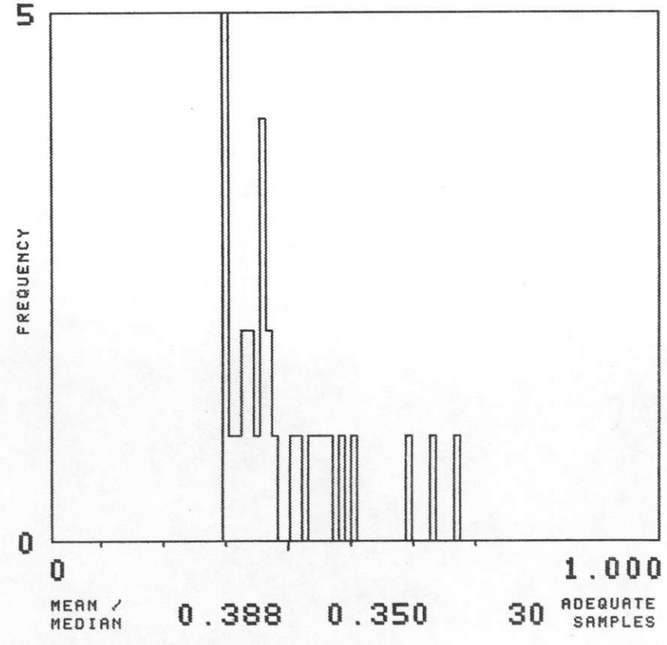
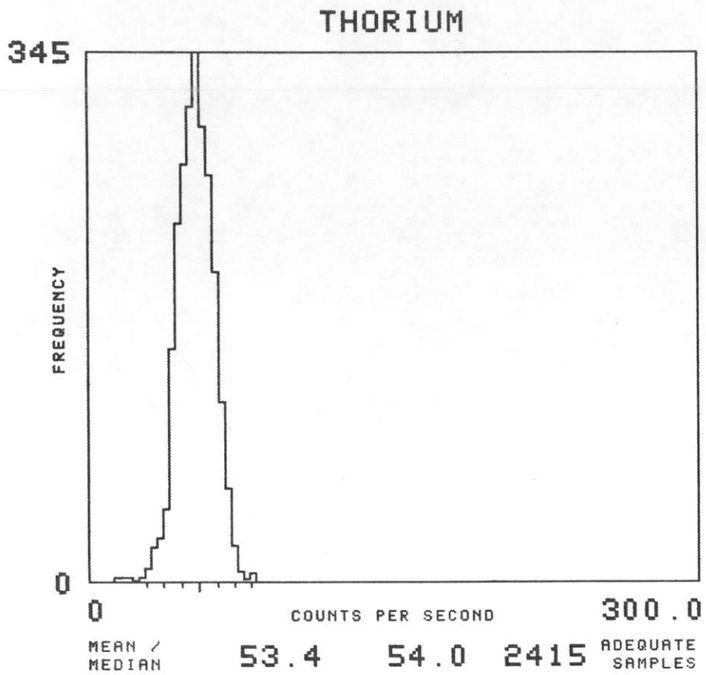
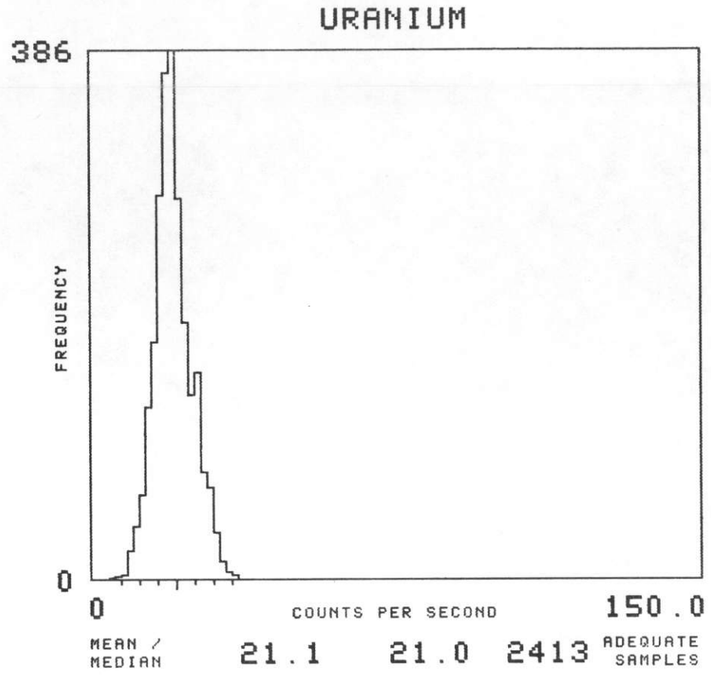
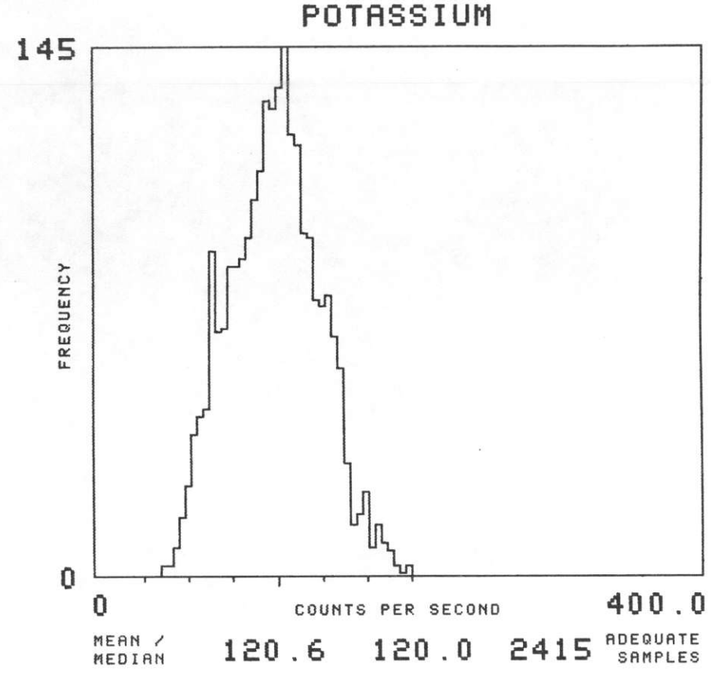


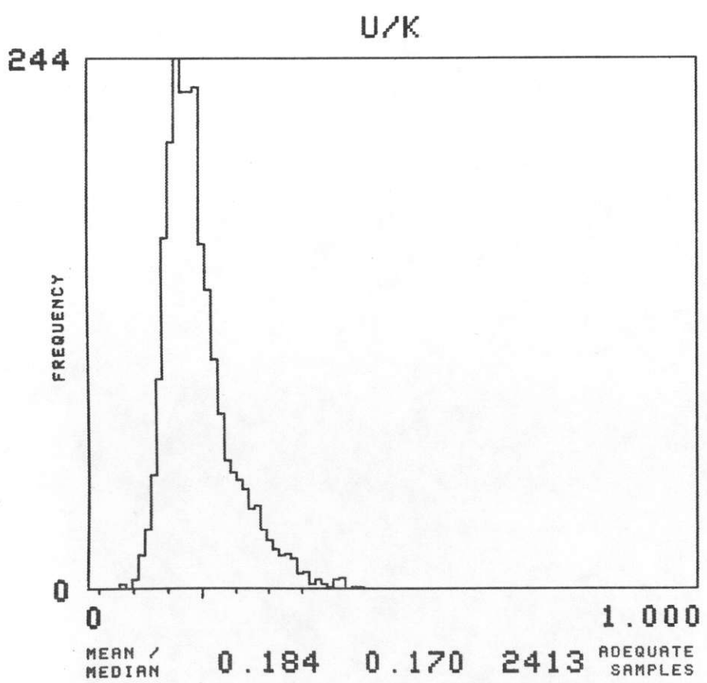
NTMS NI 13-2 SANTA FE

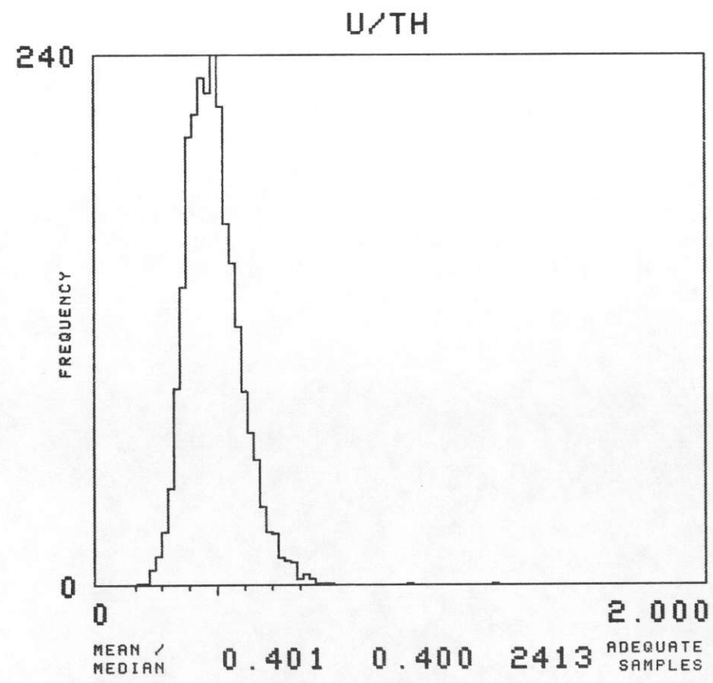
MAP UNIT : TR TOTAL NUMBER OF SAMPLES 2431

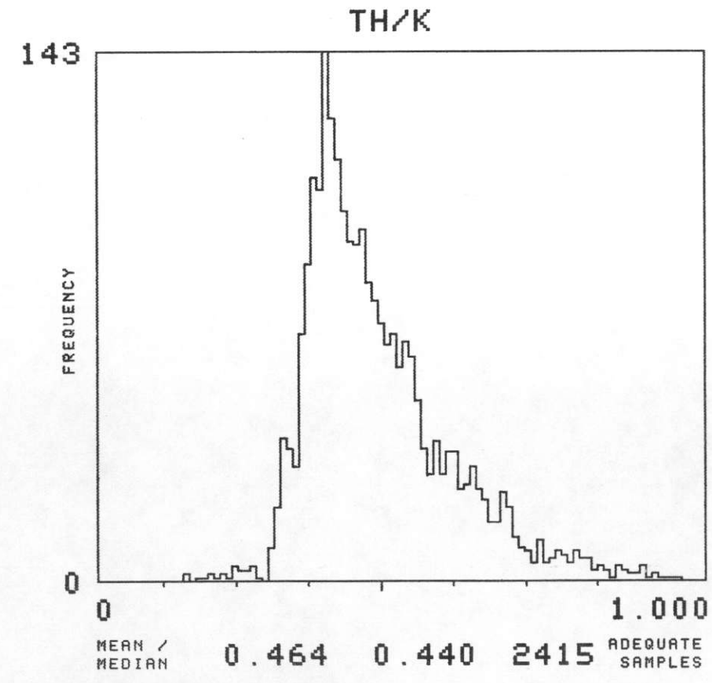






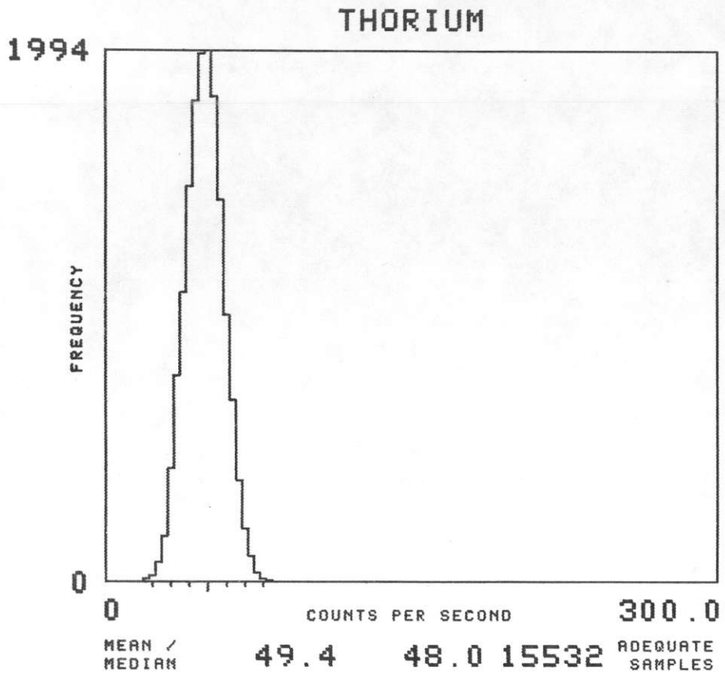


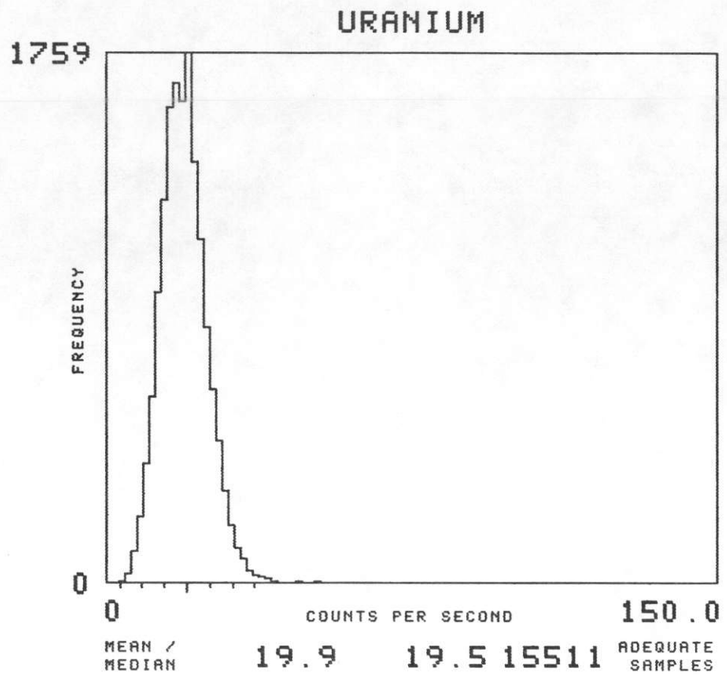


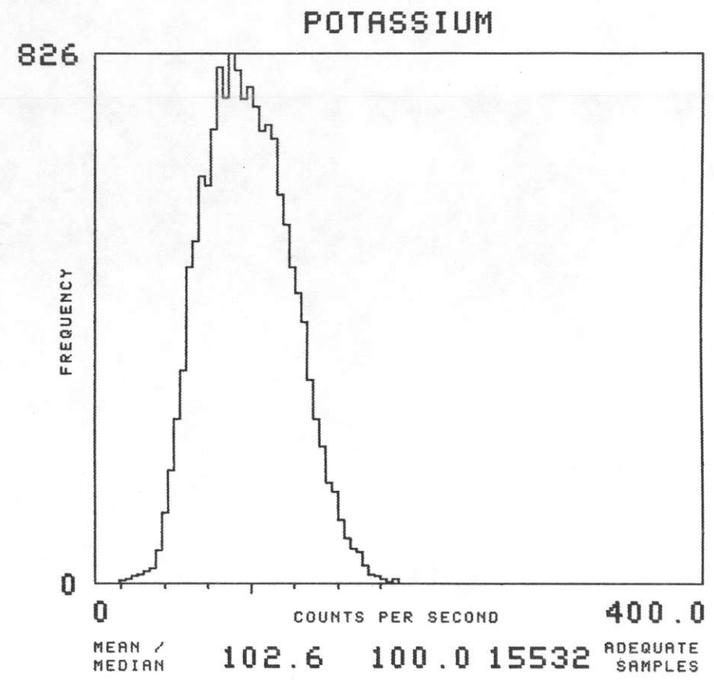


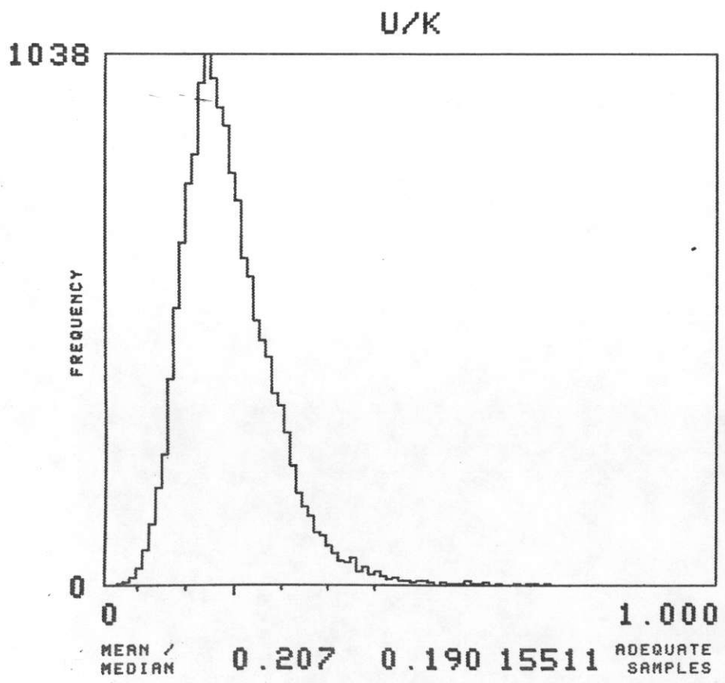
NTMS NI 13-2 SANTA FE

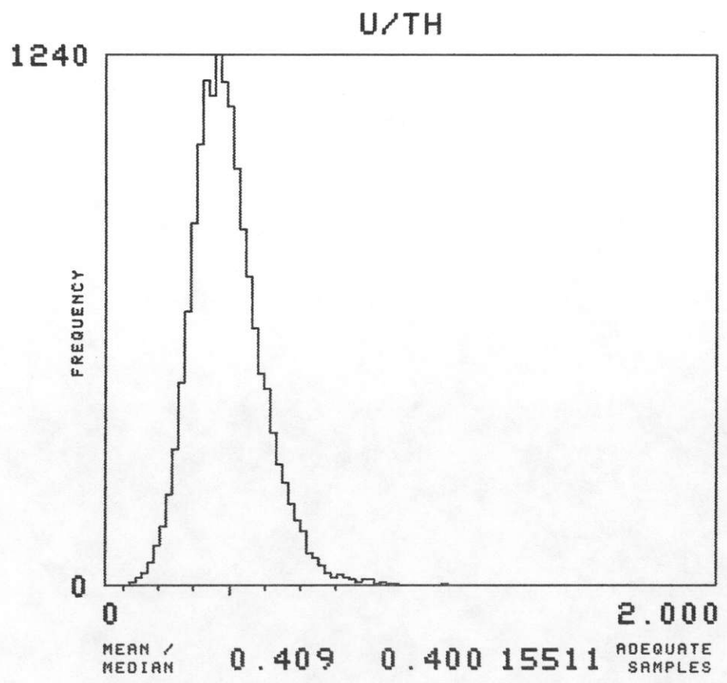
MAP UNIT : TRC TOTAL NUMBER OF SAMPLES 16337

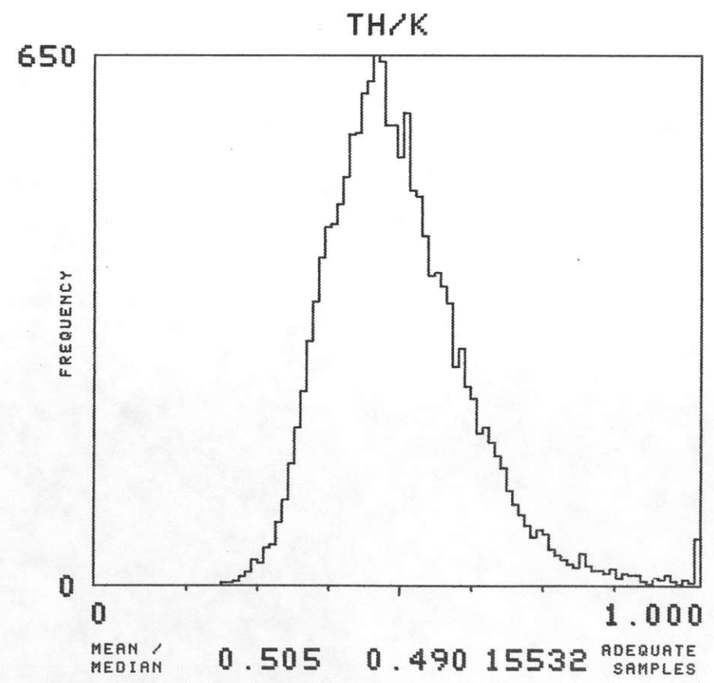












NTMS NI 13-2 SANTA FE

MAP UNIT : TRS TOTAL NUMBER OF SAMPLES 10767

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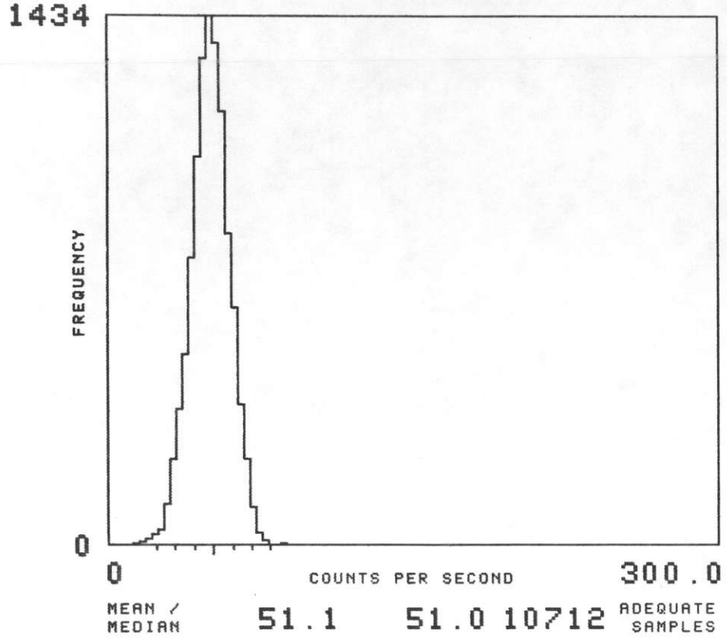

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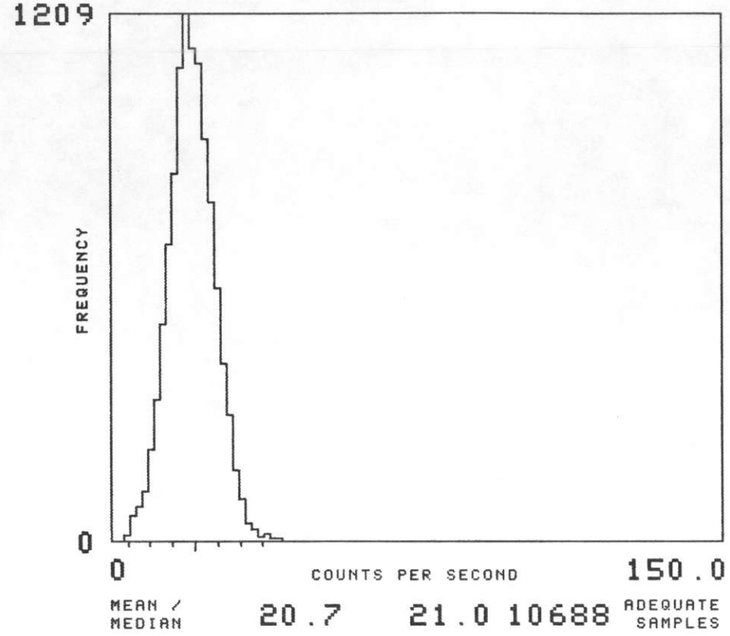

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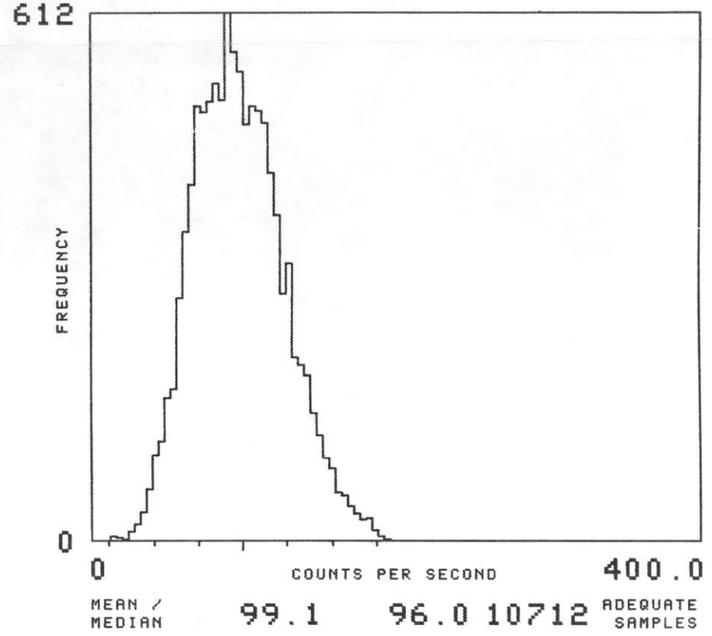

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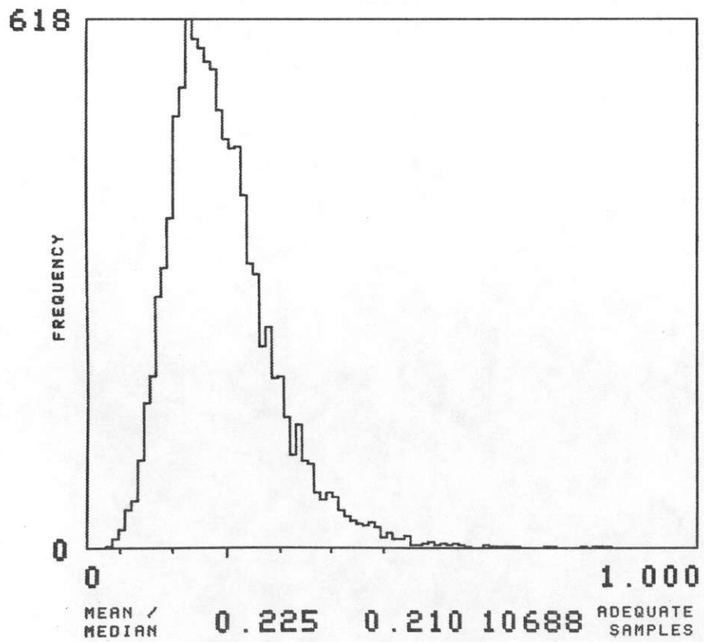

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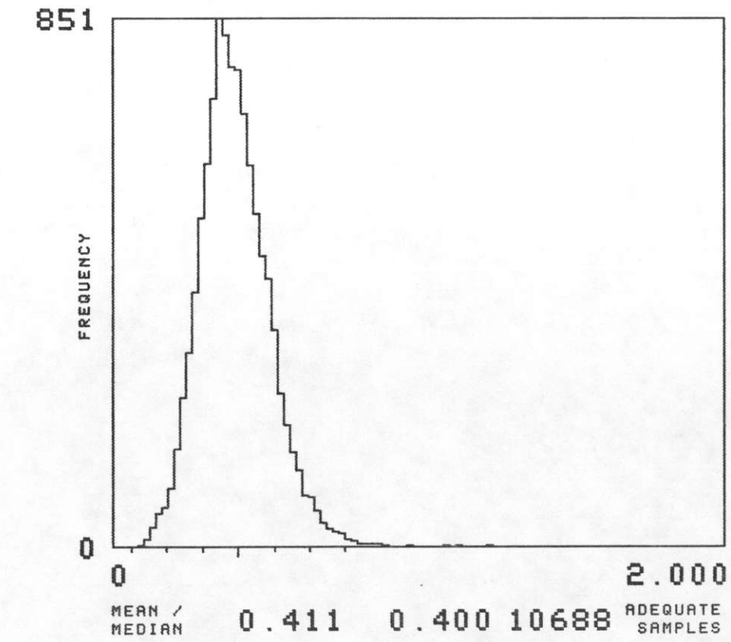

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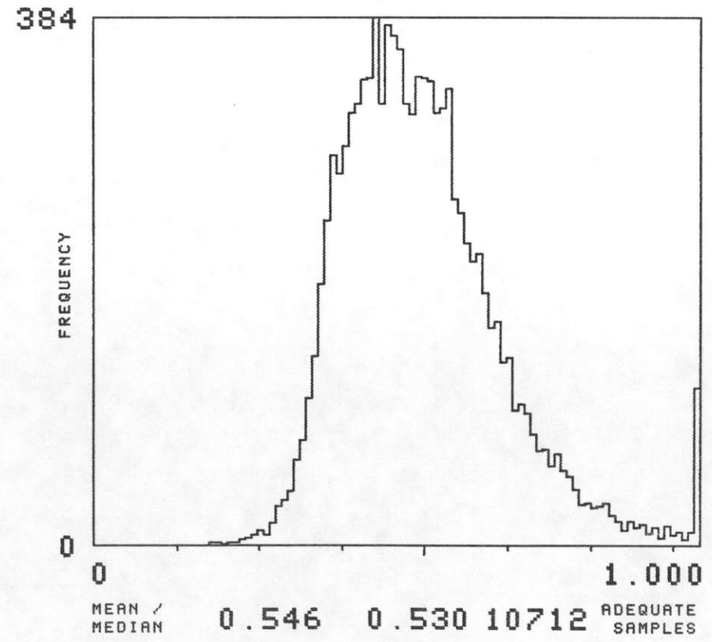
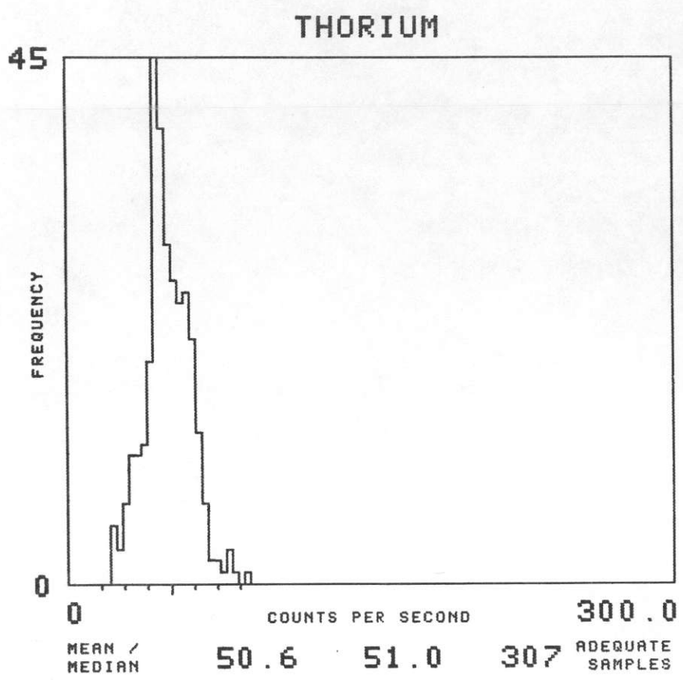
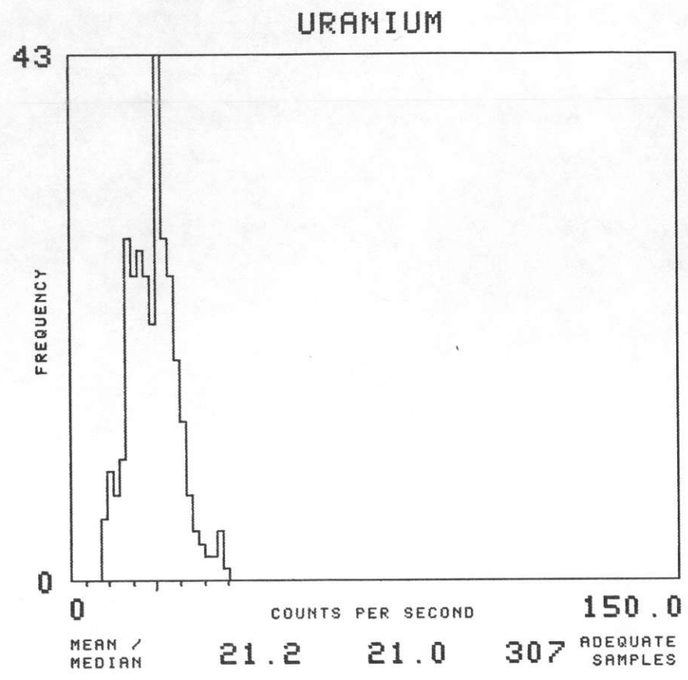
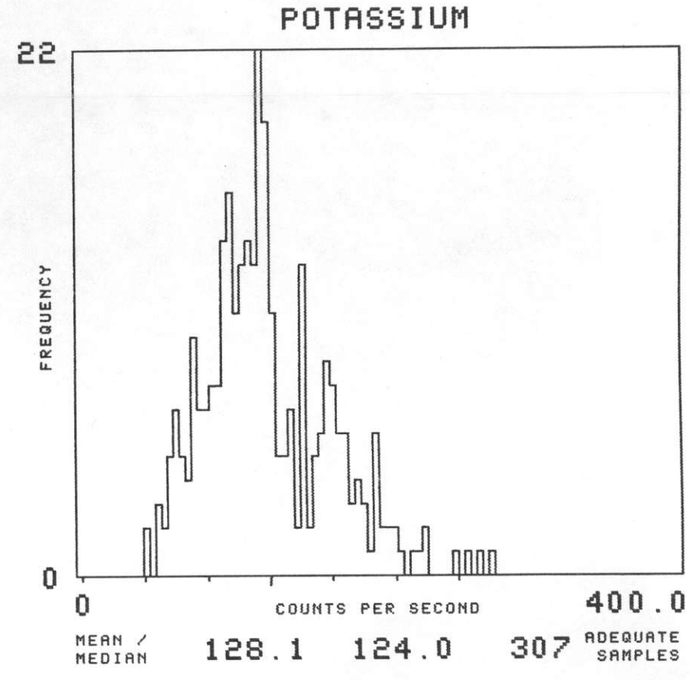


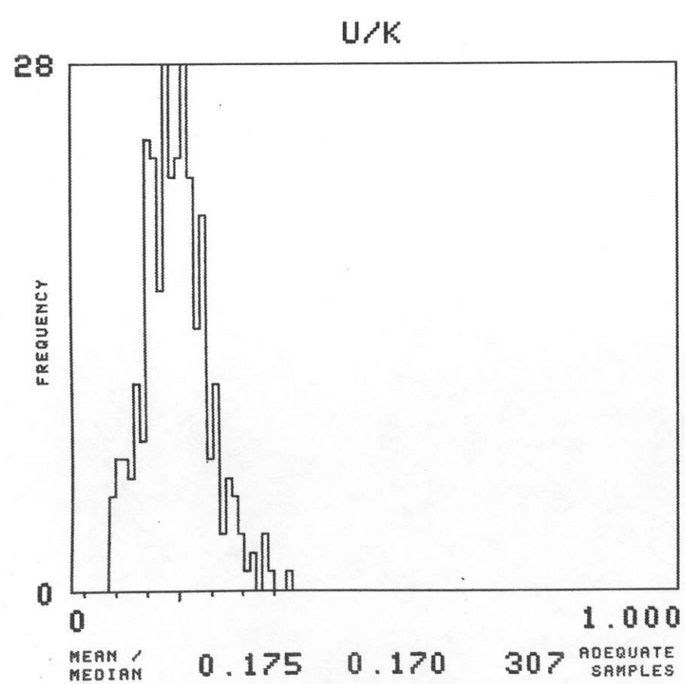
NTMS NI 13-2 SANTA FE

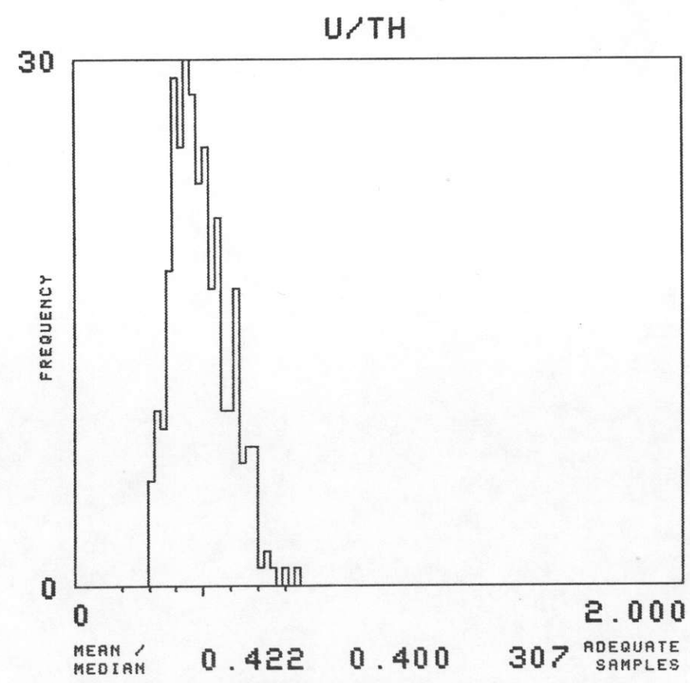
MAP UNIT : P TOTAL NUMBER OF SAMPLES 307

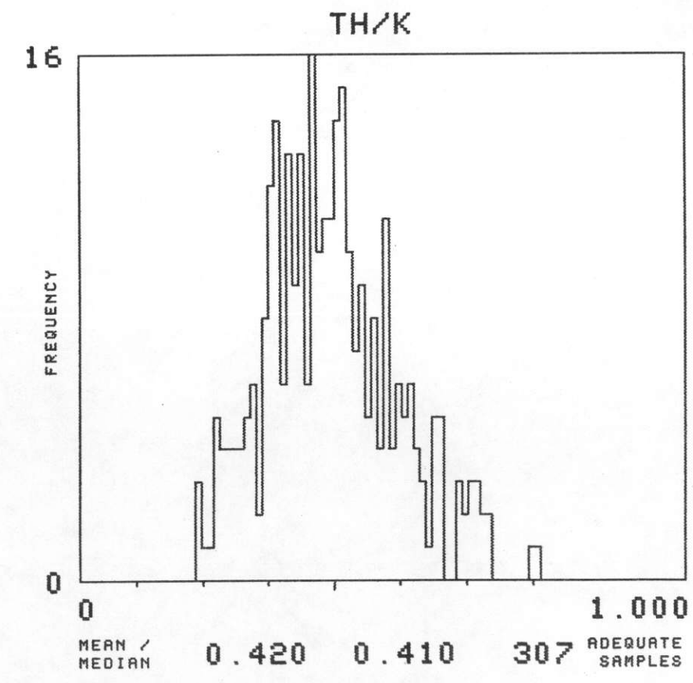












NTMS NI 13-2 SANTA FE

MAP UNIT : PAT TOTAL NUMBER OF SAMPLES 1452

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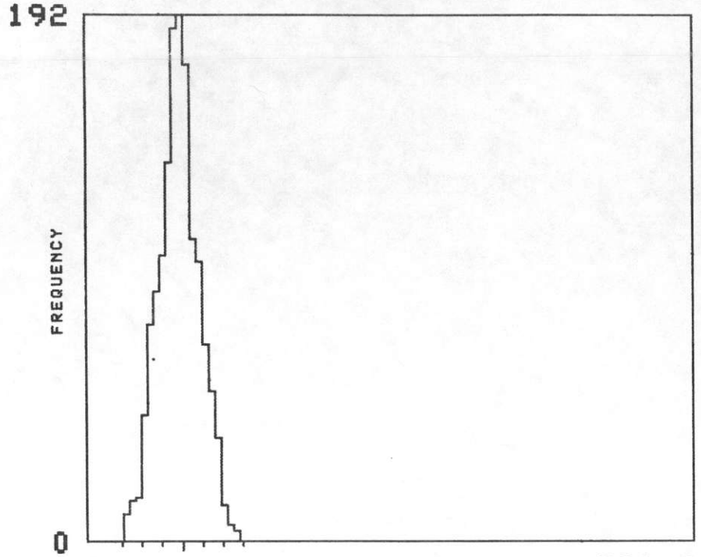
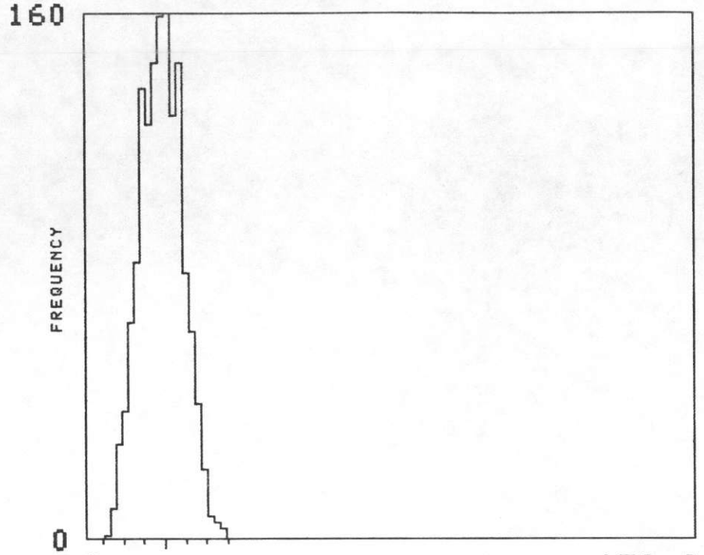


MEAN / MEDIAN 47.0 48.0 1452 ADEQUATE SAMPLES

URANIUM



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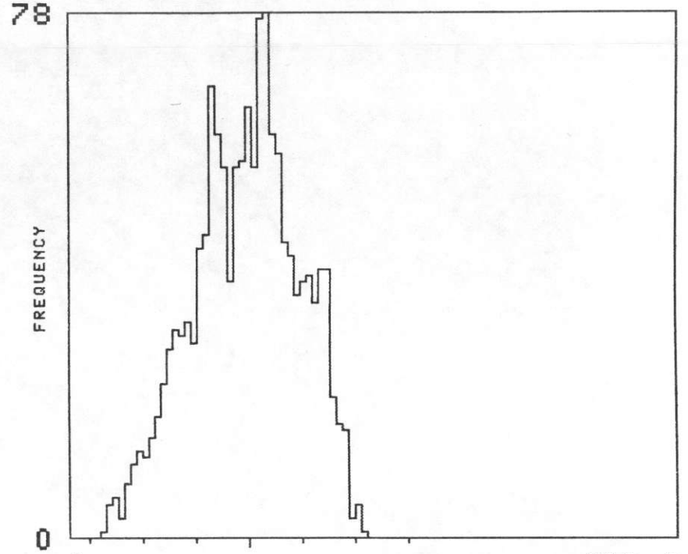
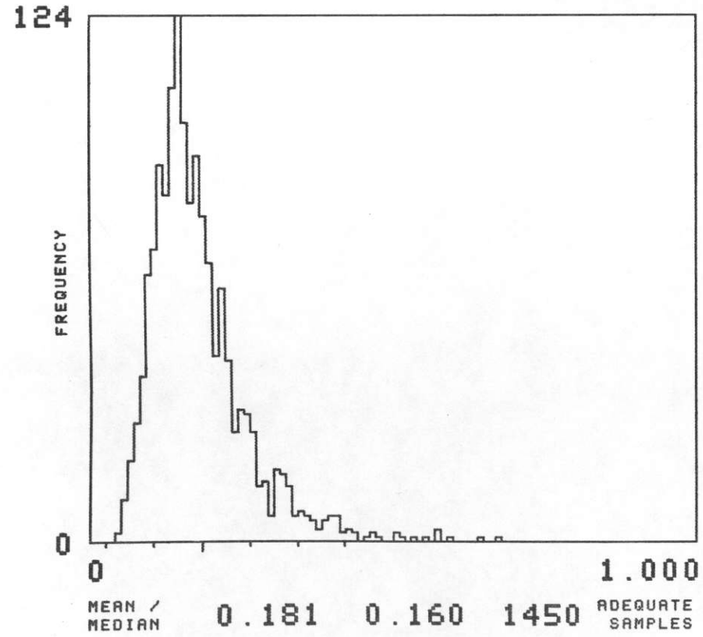
POTASSIUM



MEAN / MEDIAN 118.4 120.0 1452 ADEQUATE SAMPLES

U/K



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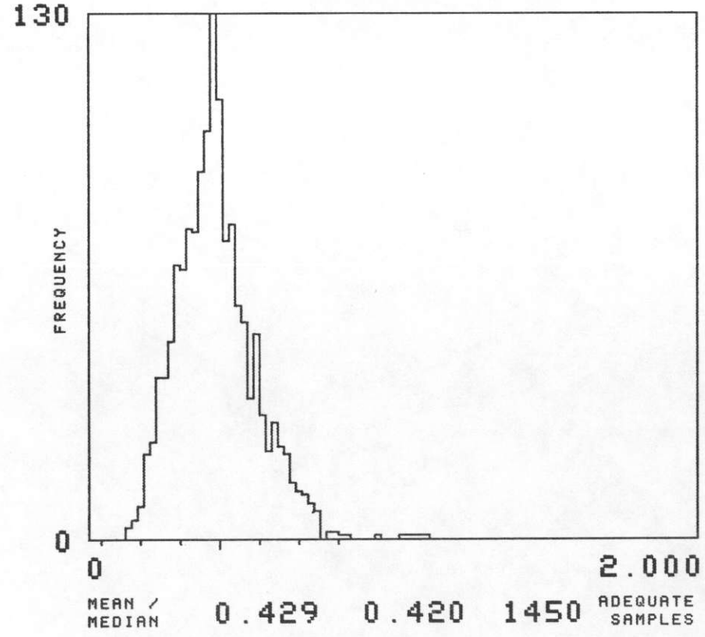
U/TH



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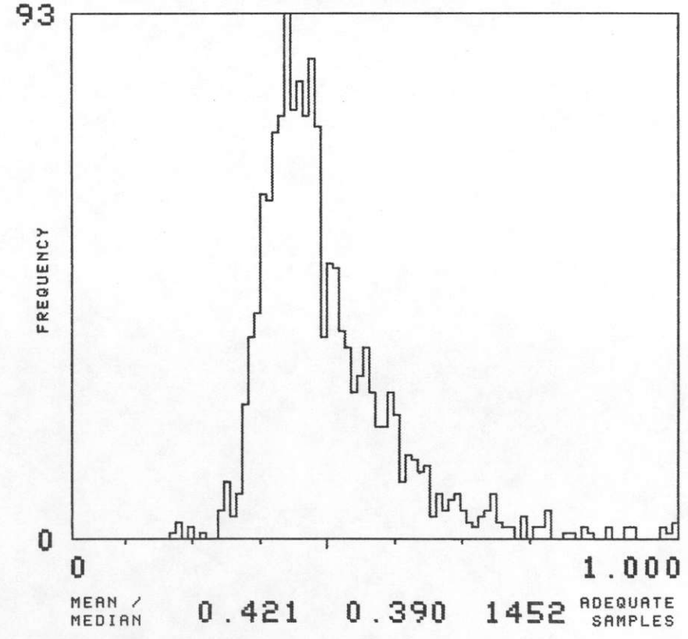
TH/K



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NTMS NI 13-2 SANTA FE

MAP UNIT : PSA TOTAL NUMBER OF SAMPLES 2350

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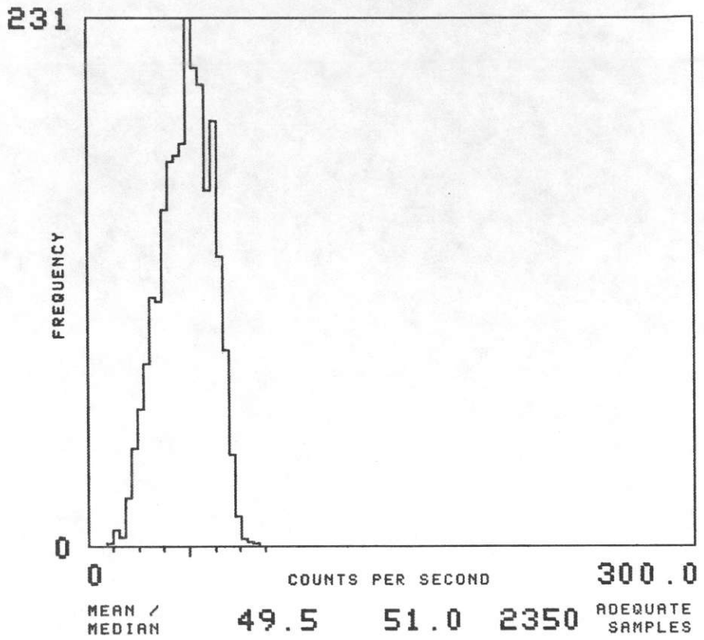

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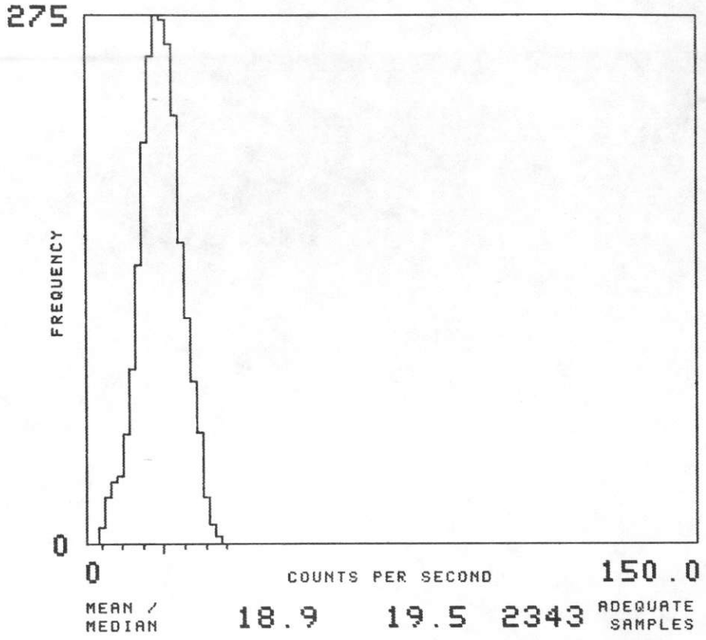

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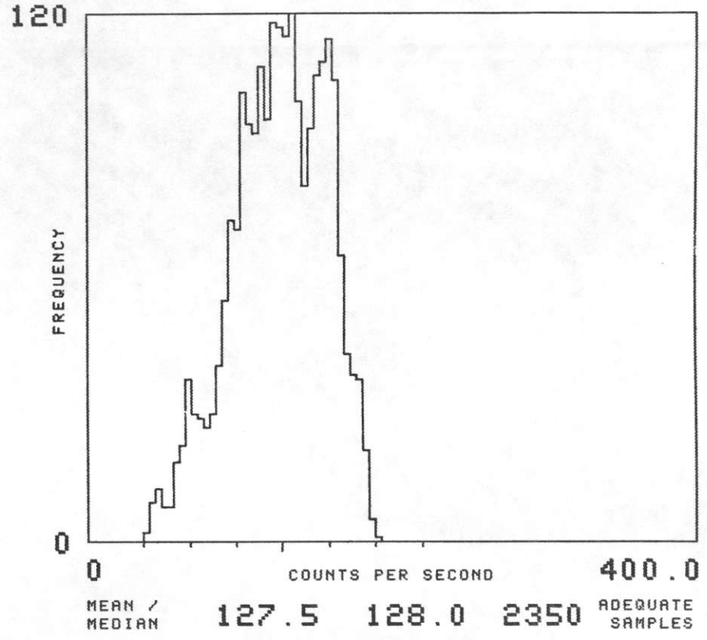

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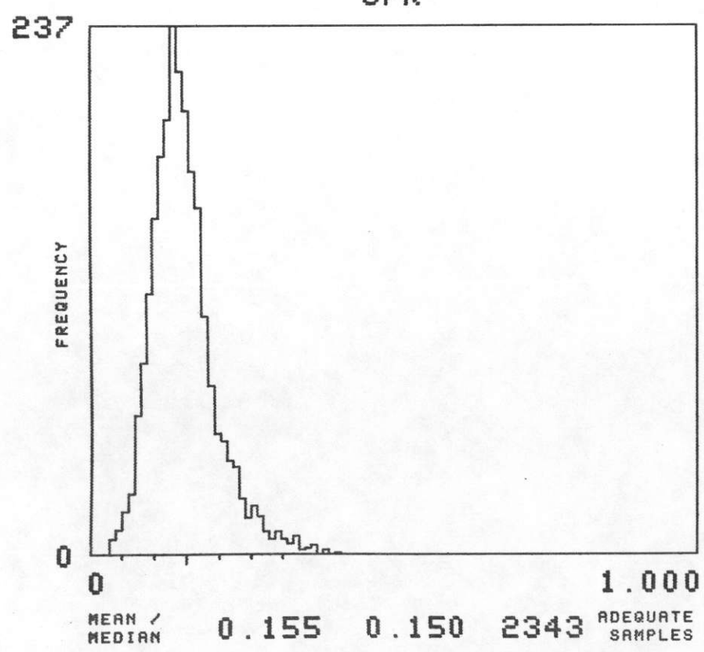

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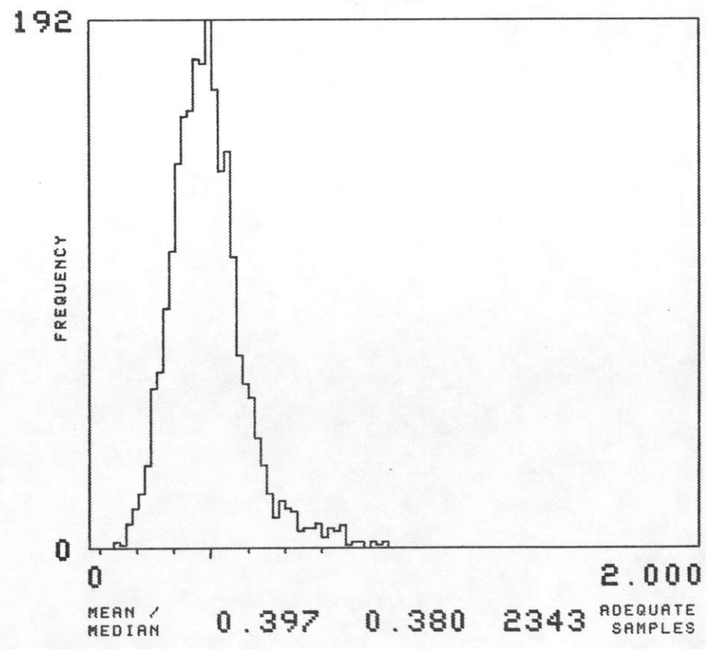

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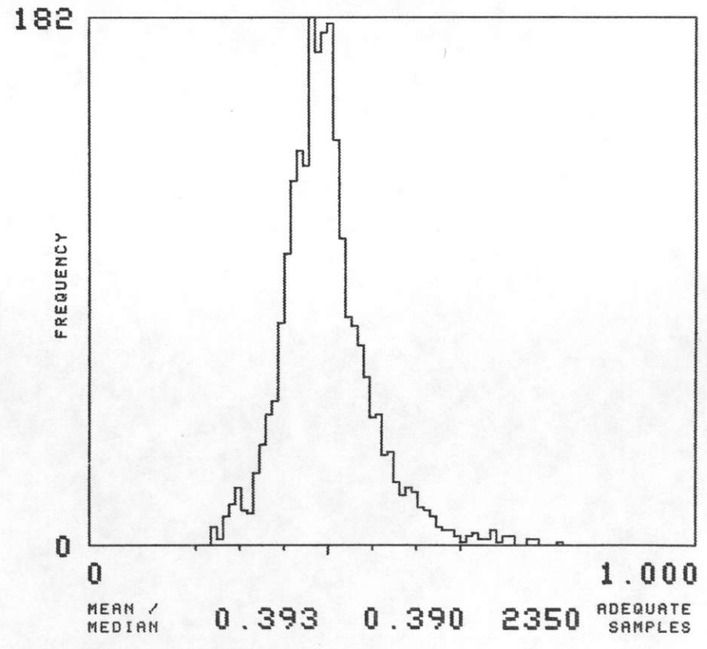

NTMS NI 13-2 SANTA FE

MAP UNIT : PG TOTAL NUMBER OF SAMPLES 3625

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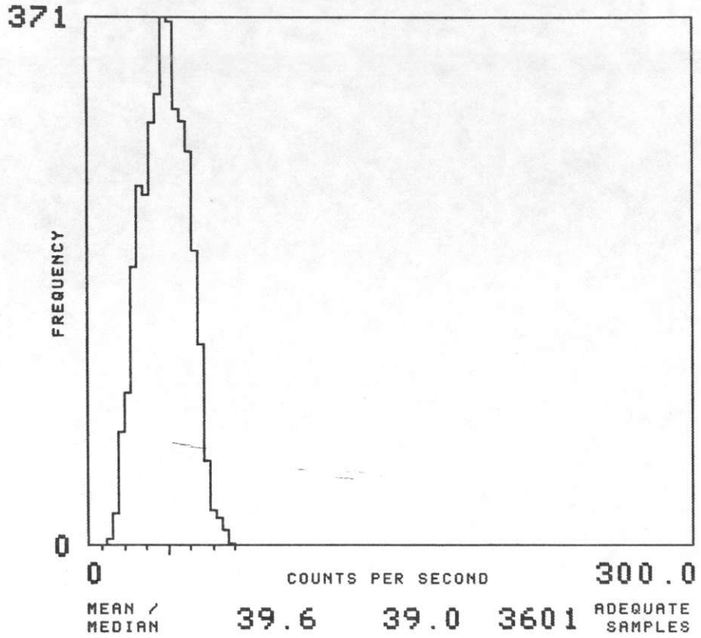

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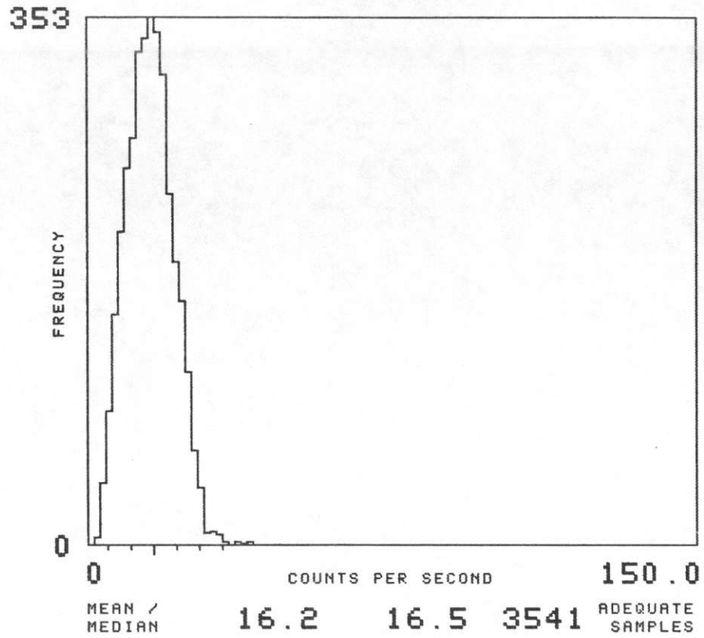

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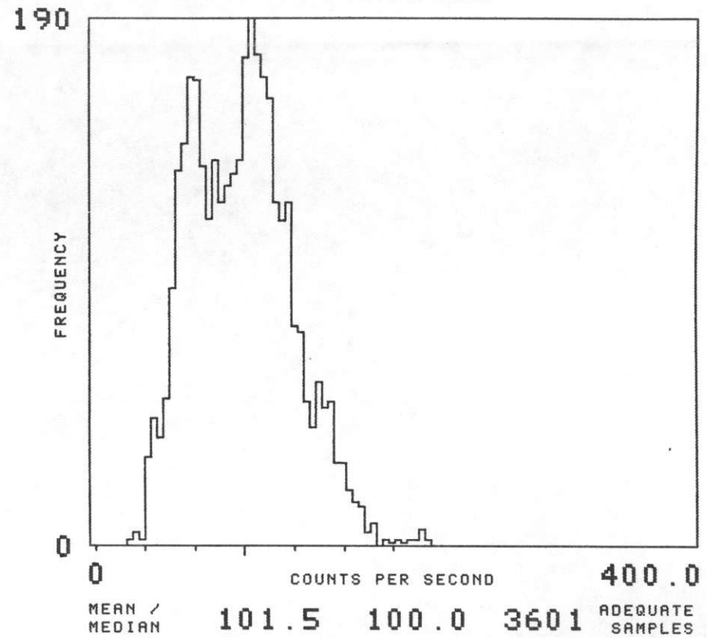

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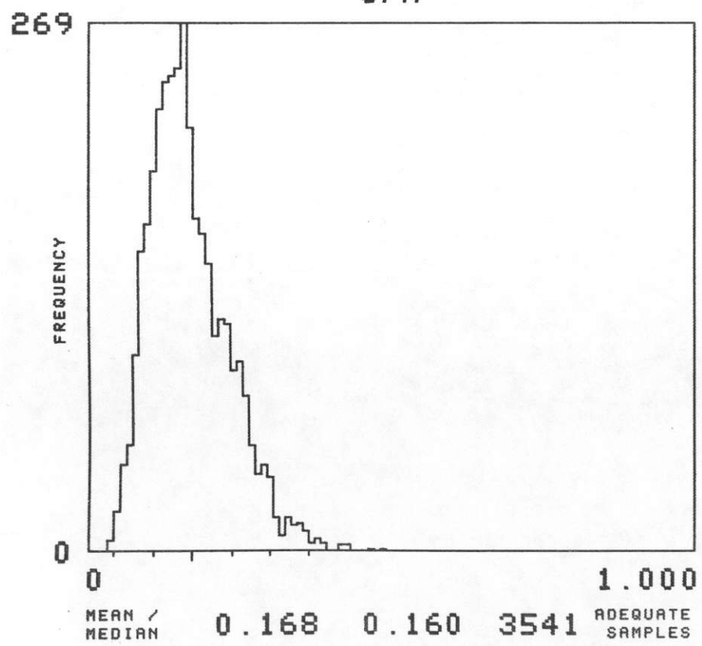

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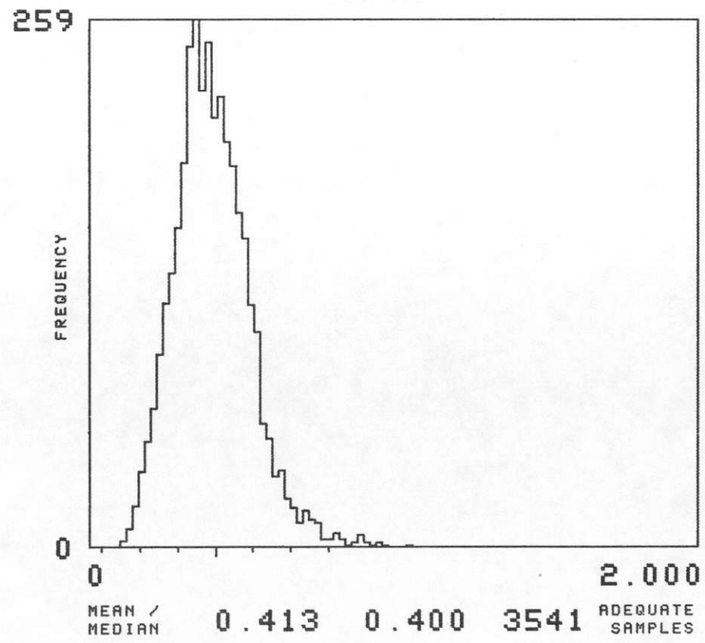

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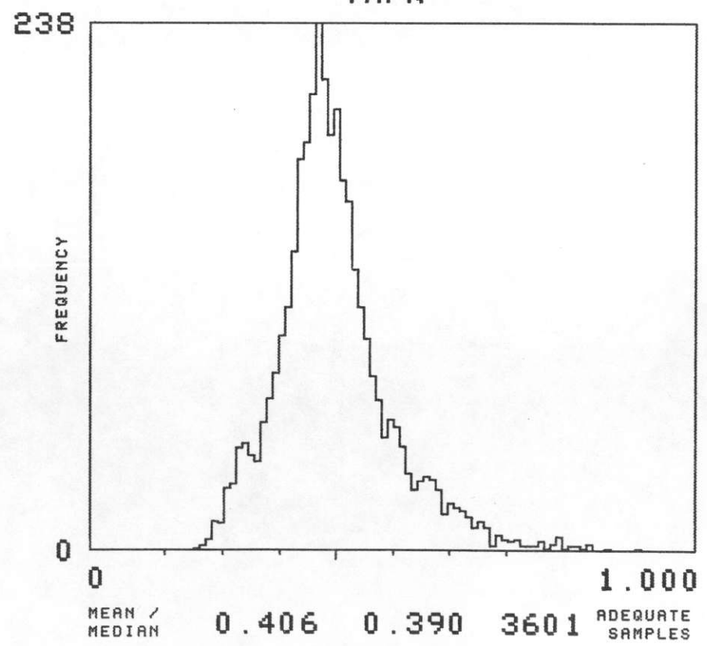
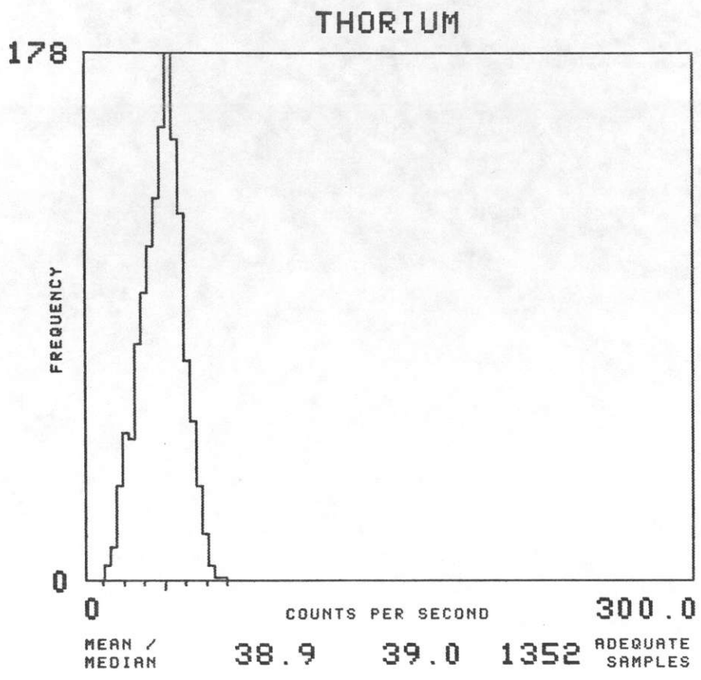
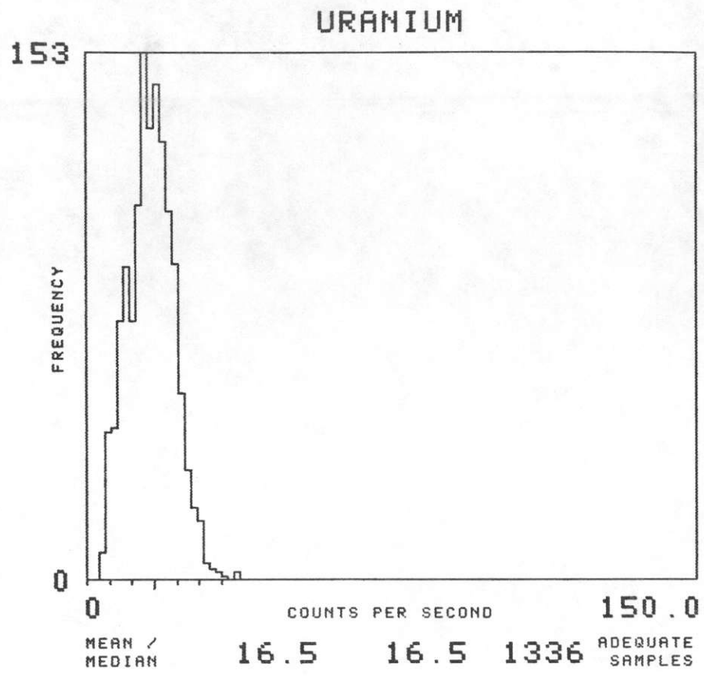
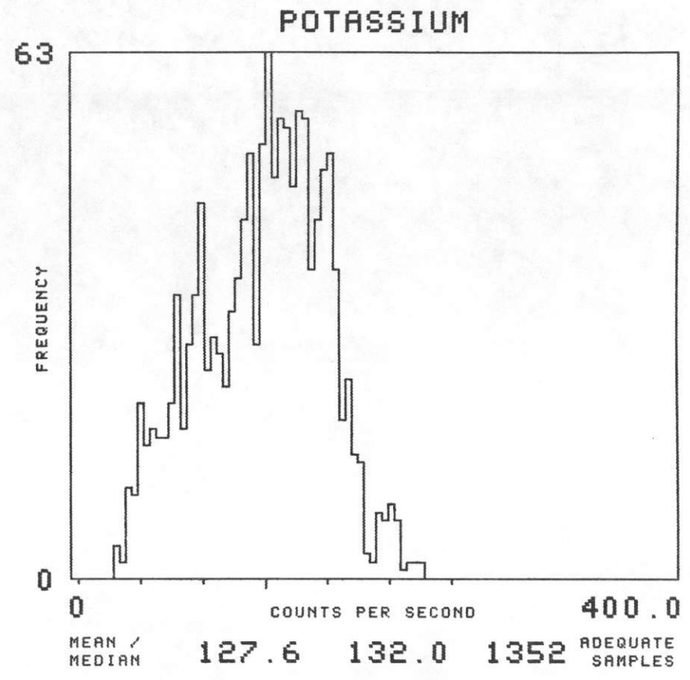


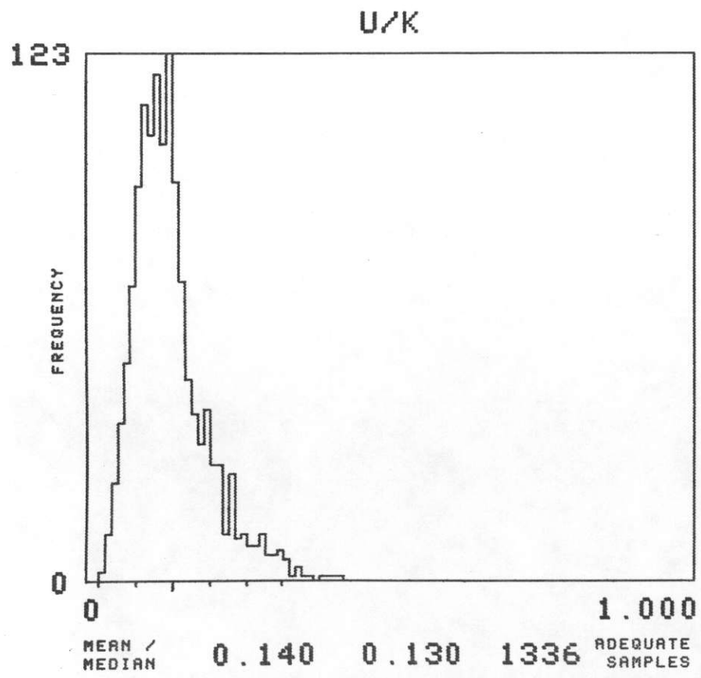
NTMS NI 13-2 SANTA FE

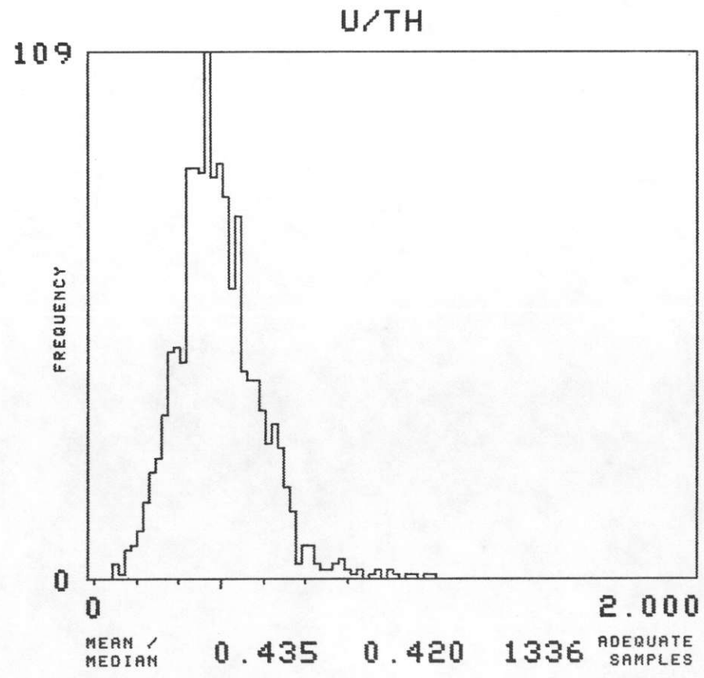
MAP UNIT : PY TOTAL NUMBER OF SAMPLES 1407

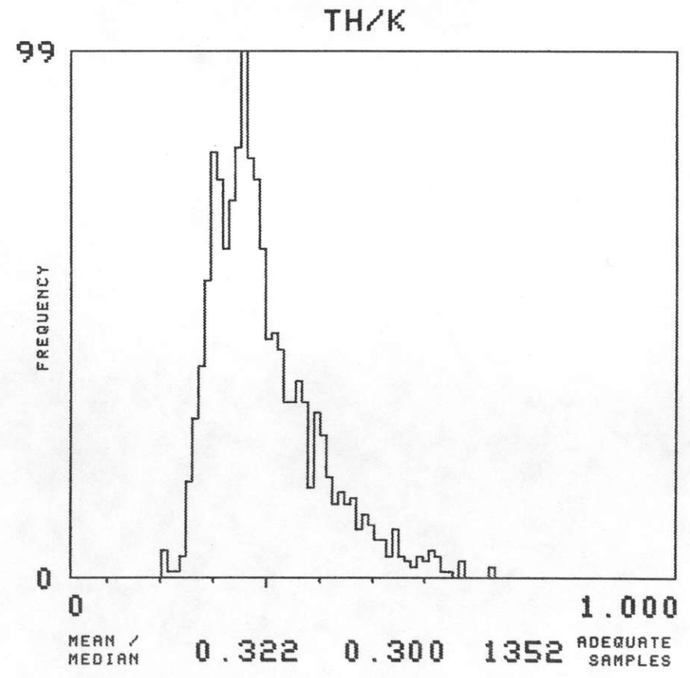












NTMS NI 13-2 SANTA FE

MAP UNIT : PP TOTAL NUMBER OF SAMPLES 2566

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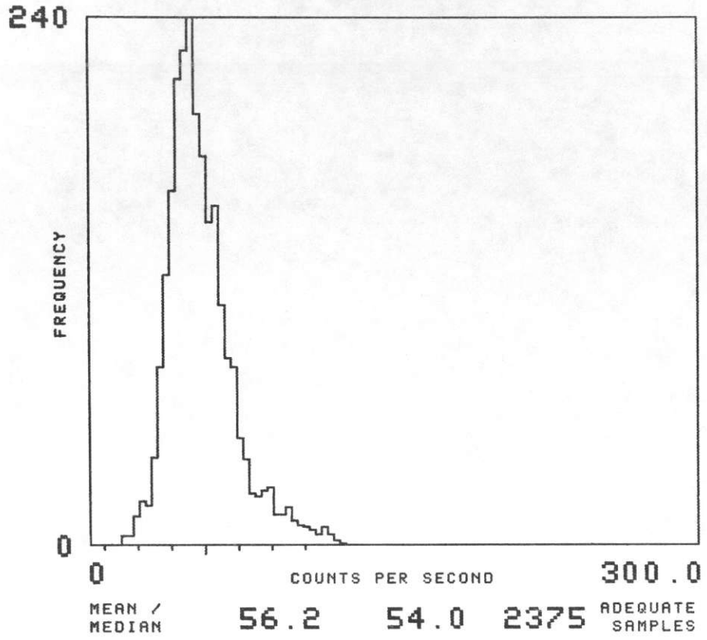
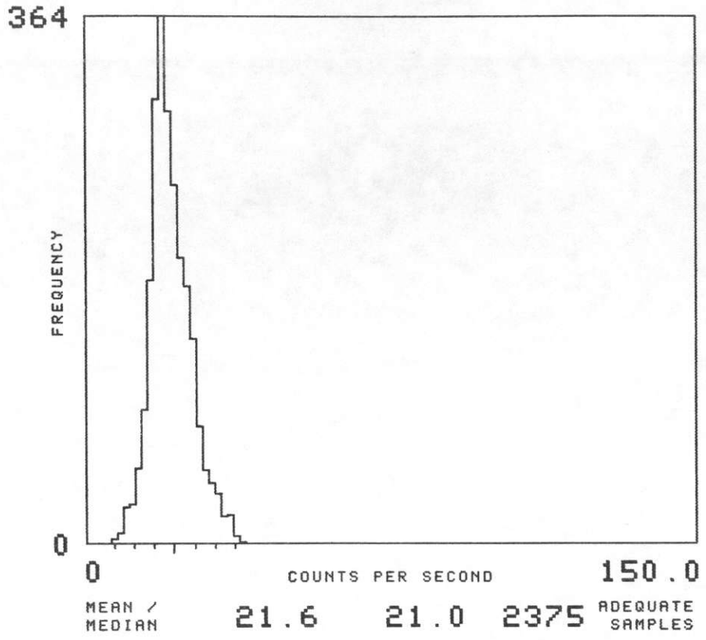
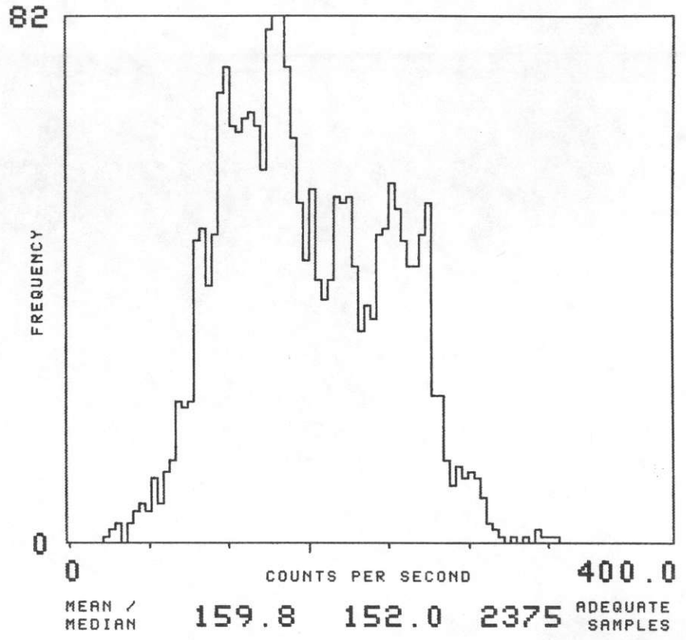


URANIUM



POTASSIUM



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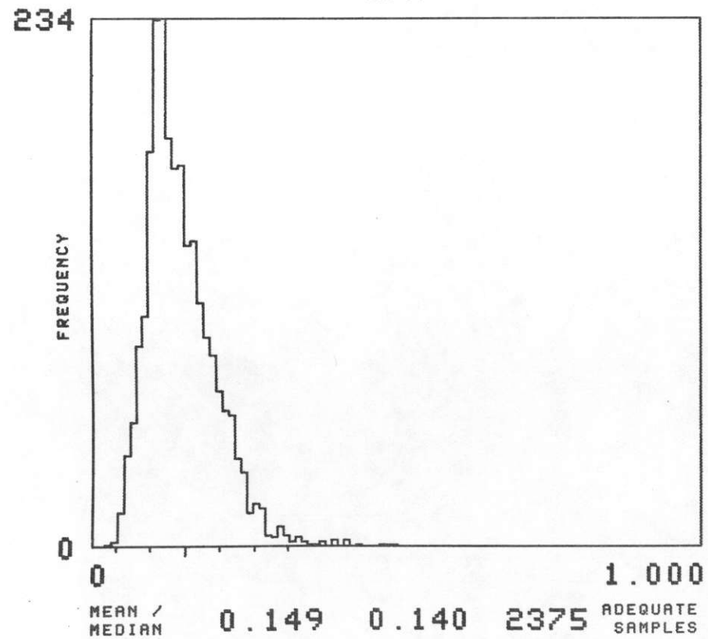

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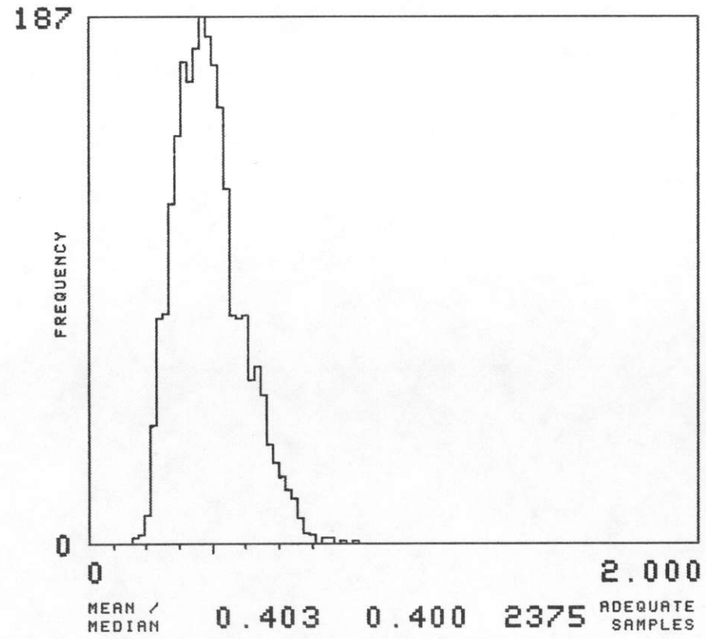

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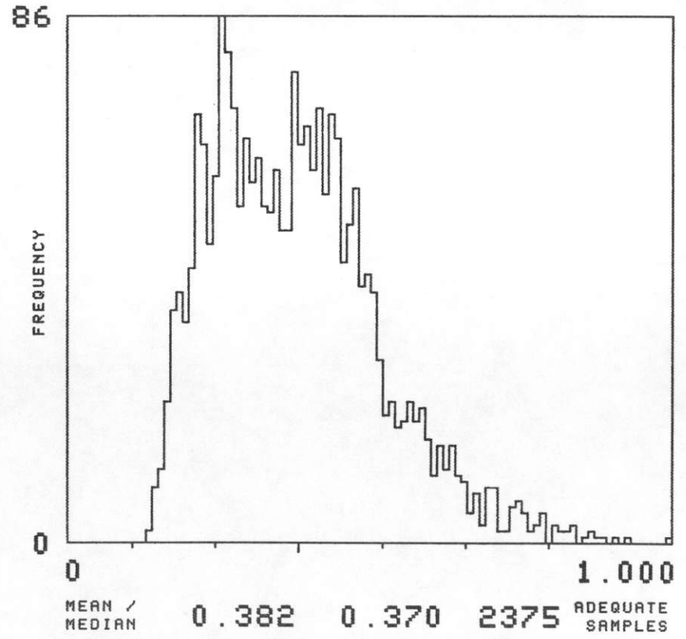

NTMS NI 13-2 SANTA FE

MAP UNIT : PENN TOTAL NUMBER OF SAMPLES 41

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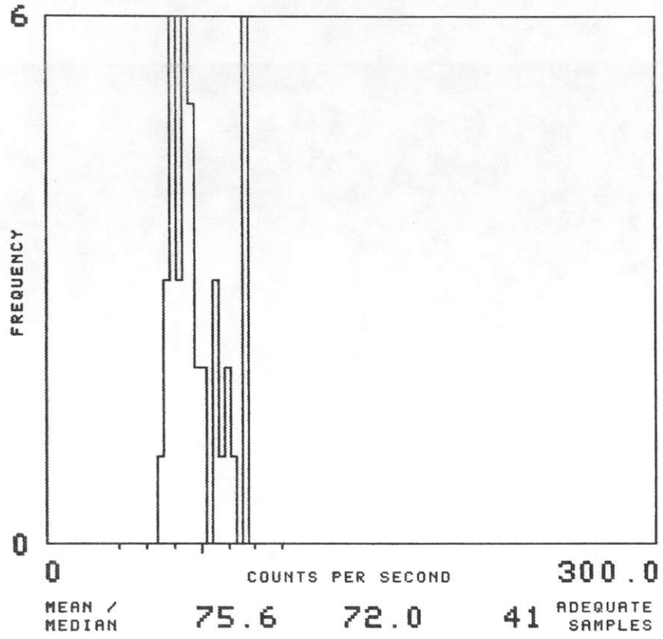

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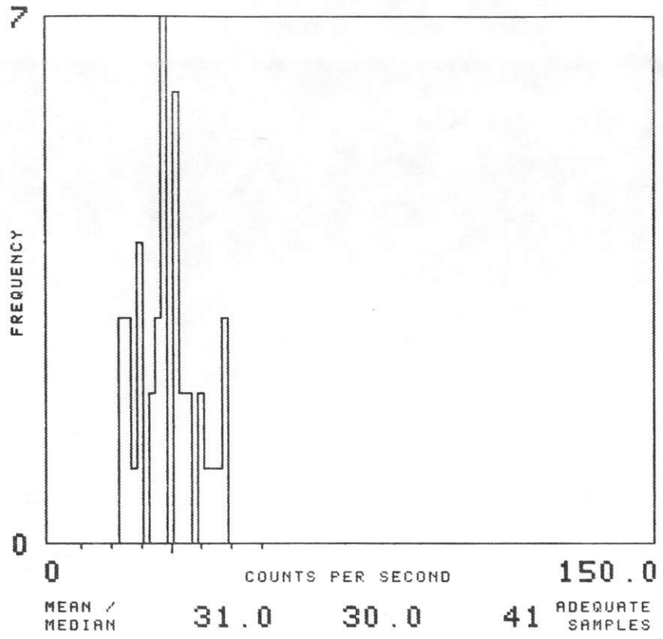

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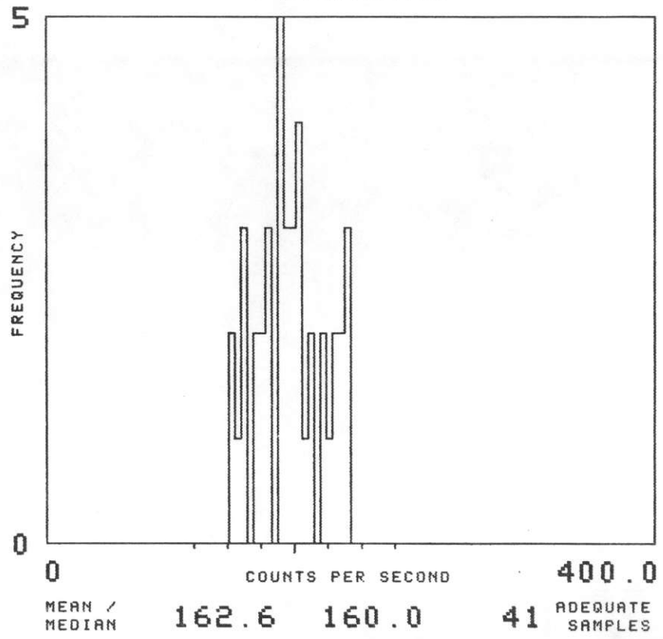

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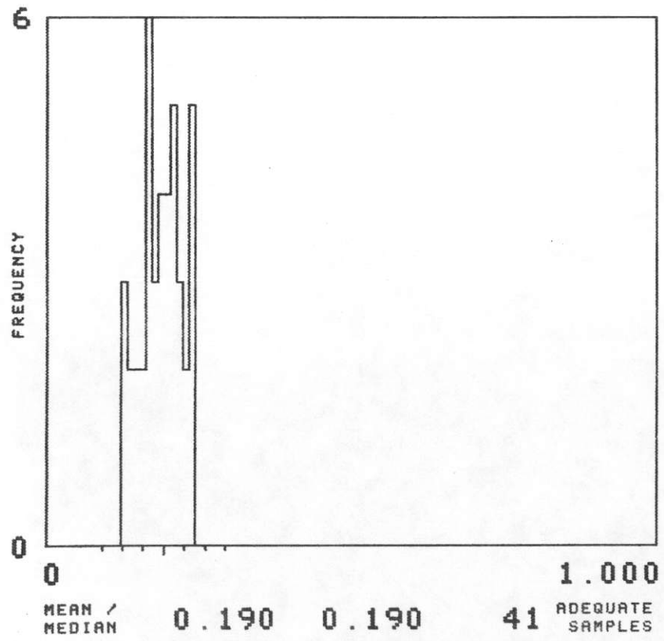

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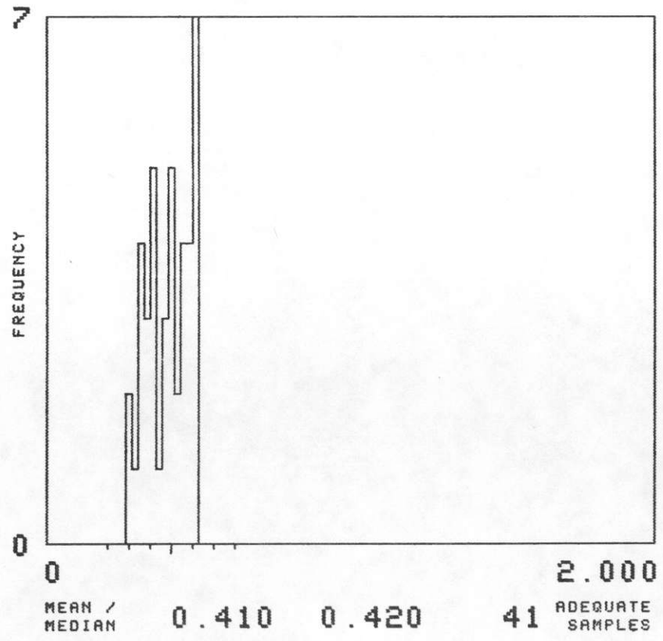

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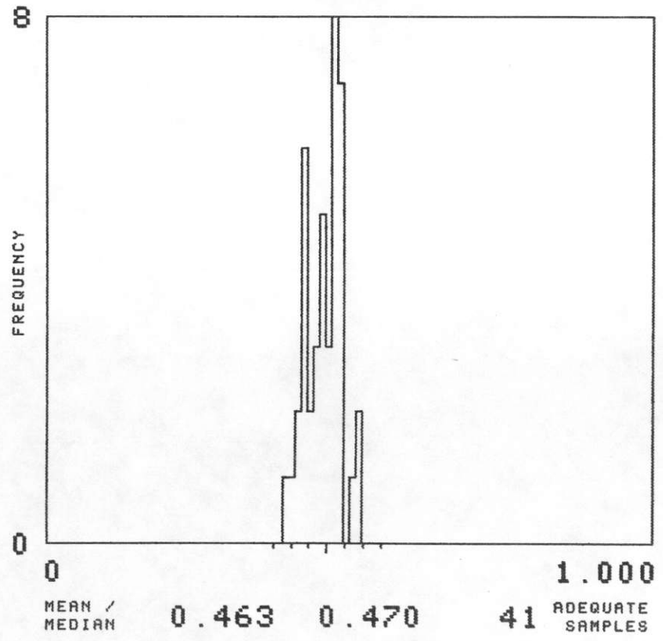

NTMS NI 13-2 SANTA FE

MAP UNIT : PM TOTAL NUMBER OF SAMPLES 9384

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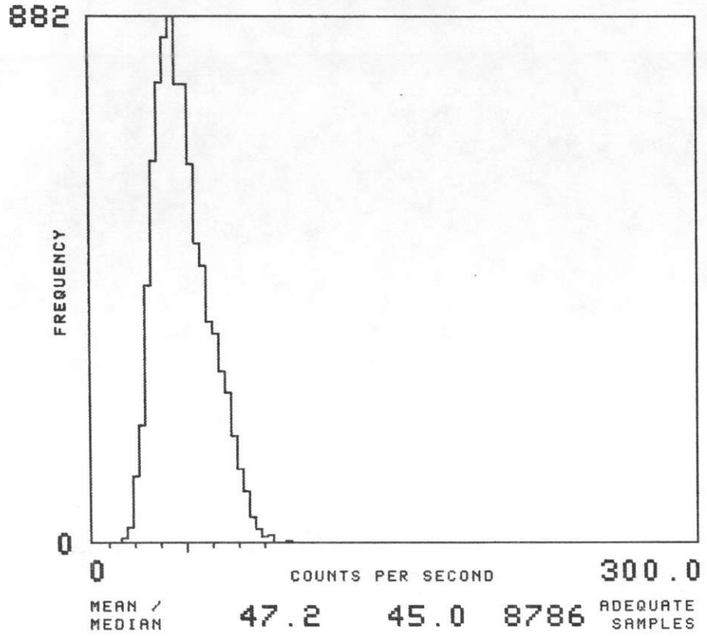

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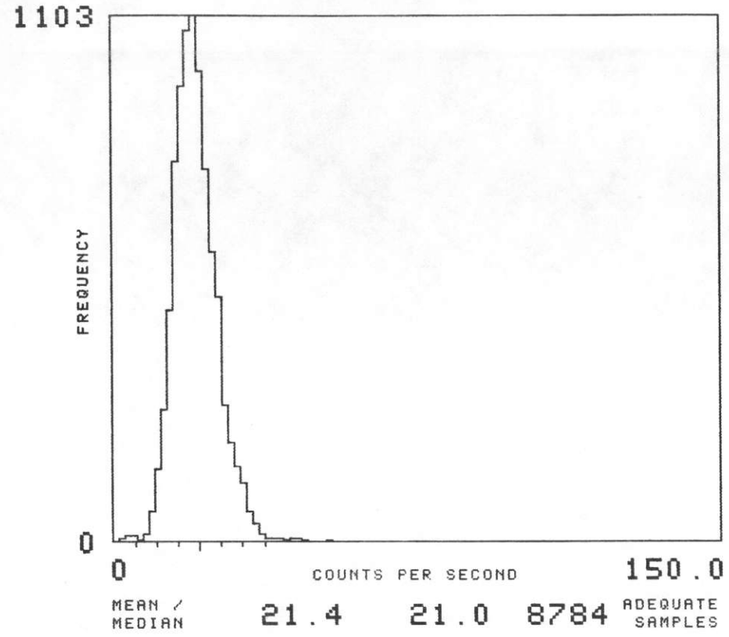

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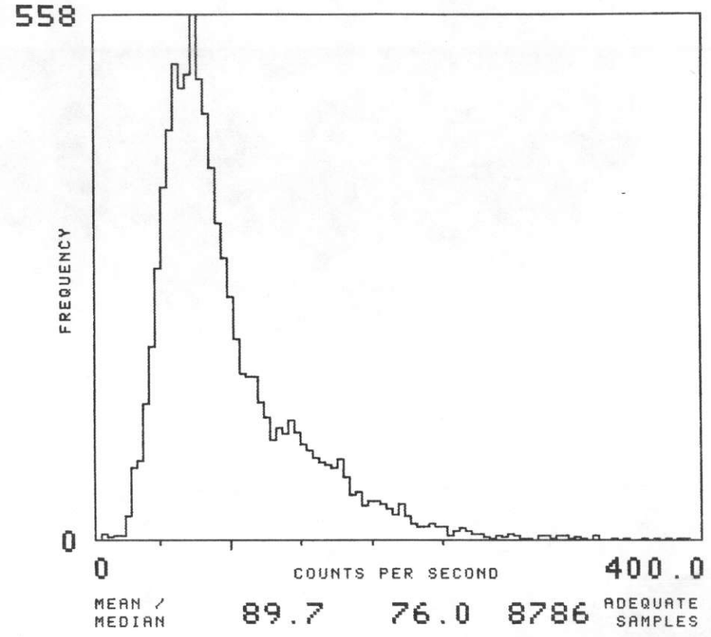

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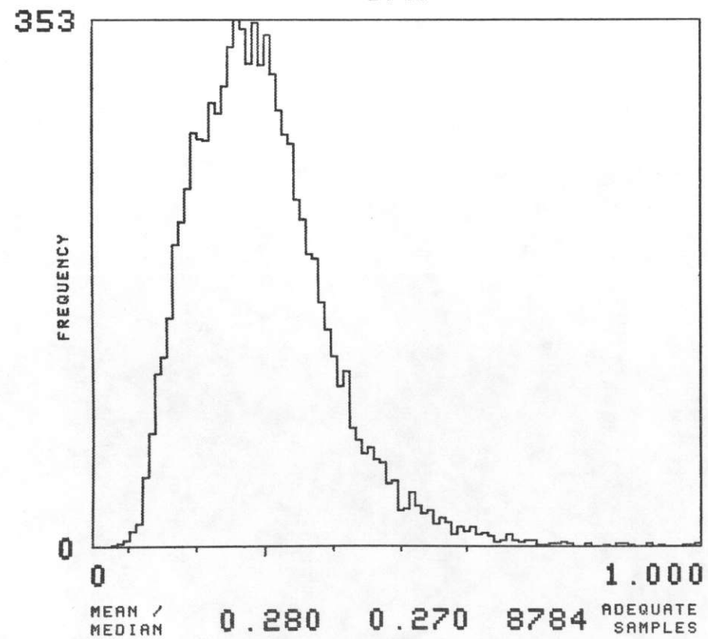

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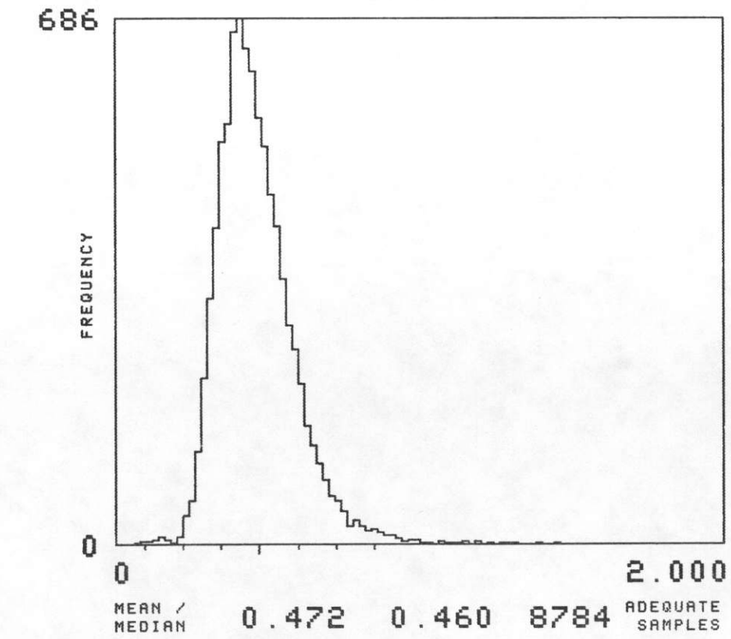

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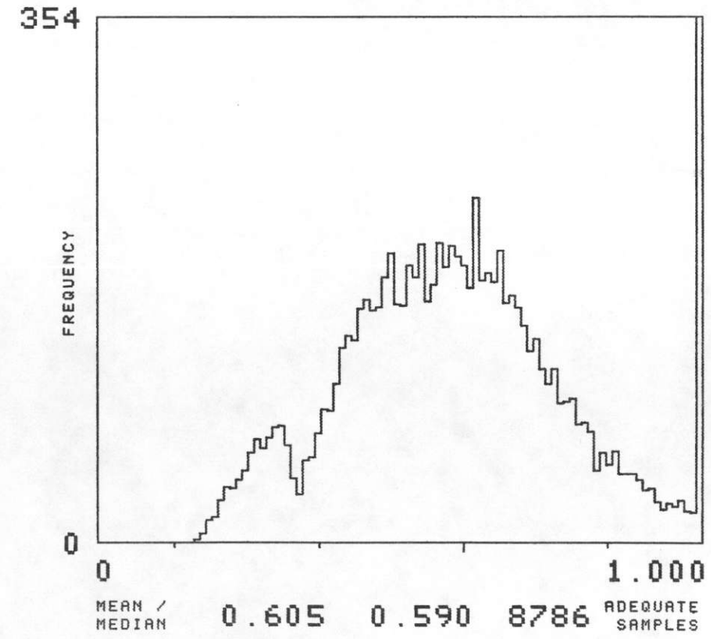
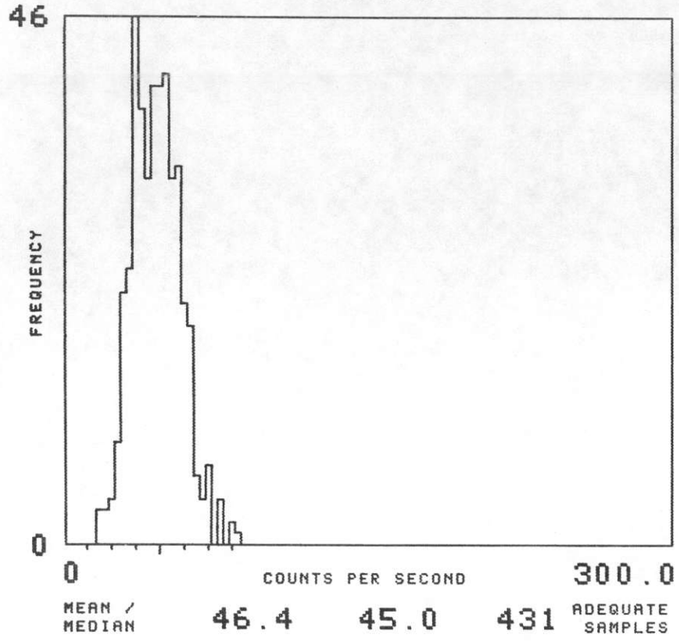


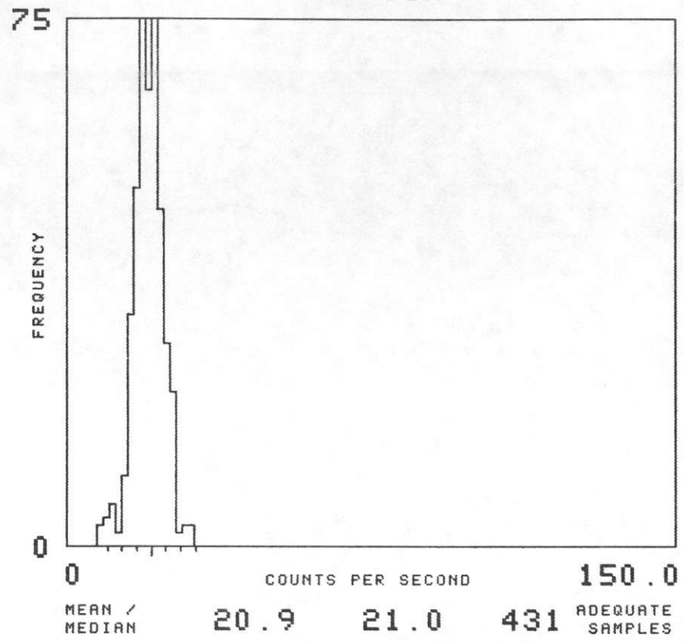
NTMS NI 13-2 SANTA FE

MAP UNIT : PS TOTAL NUMBER OF SAMPLES 520

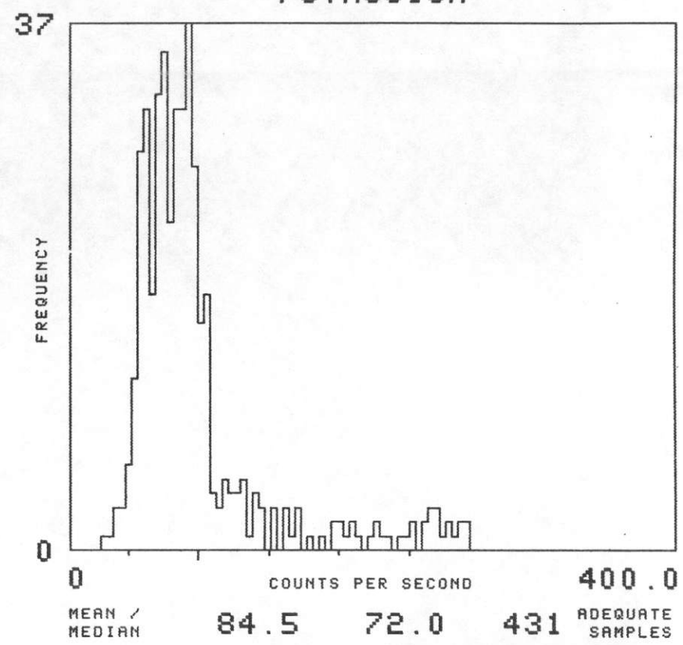
THORIUM



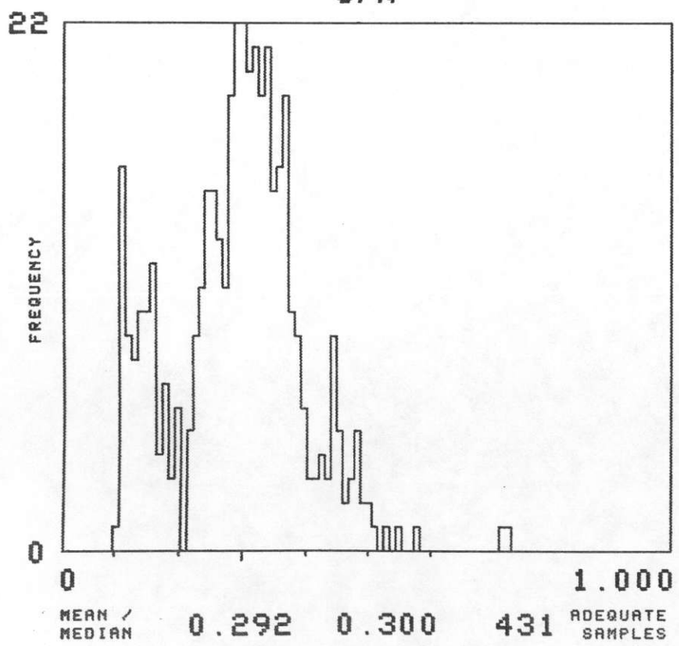
URANIUM



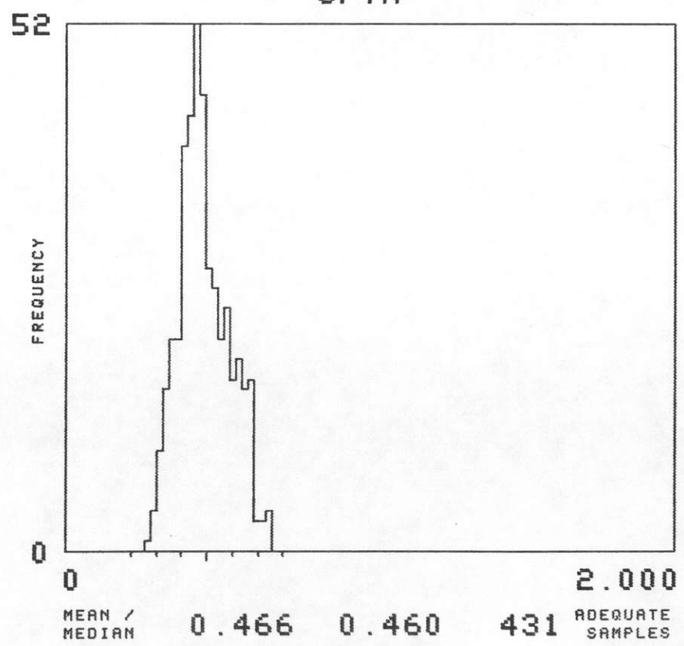
POTASSIUM



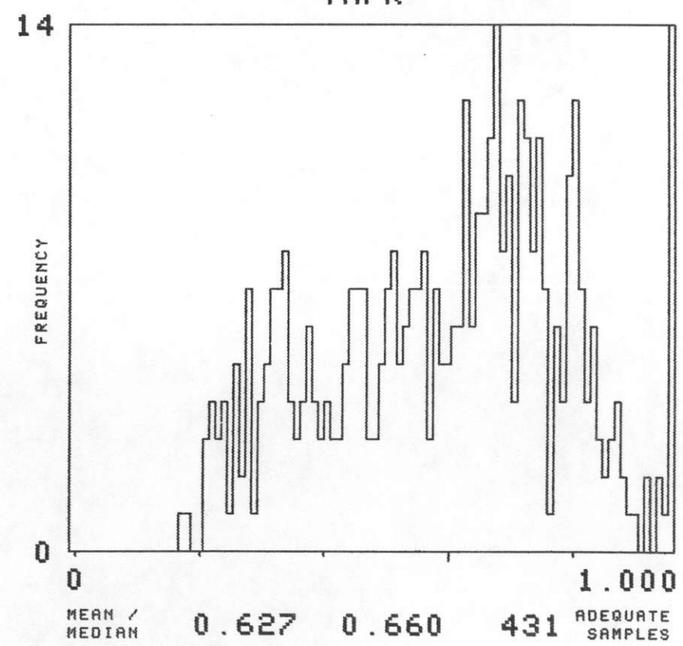
U/K



U/TH



TH/K

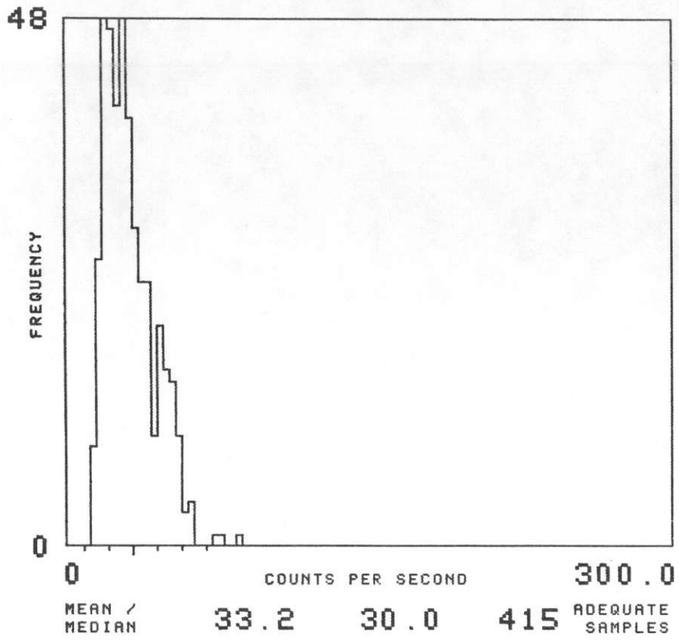


109SF

NTMS NI 13-2 SANTA FE

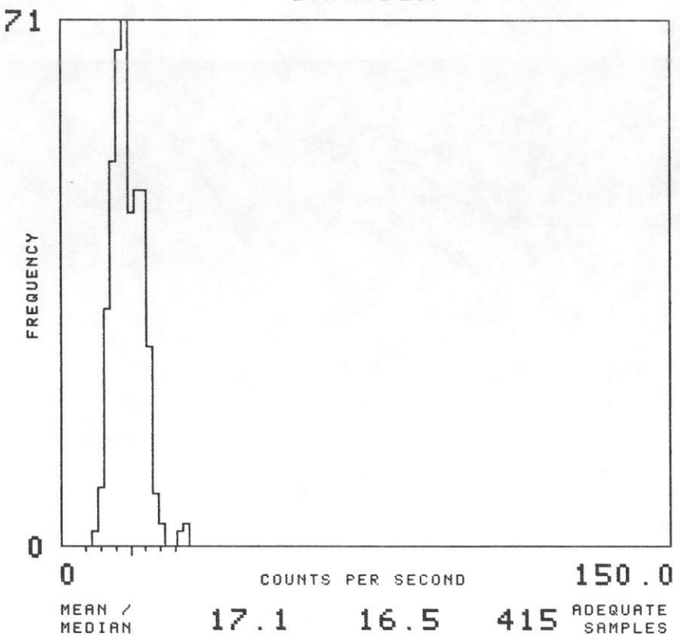
MAP UNIT : MD TOTAL NUMBER OF SAMPLES 450

THORIUM



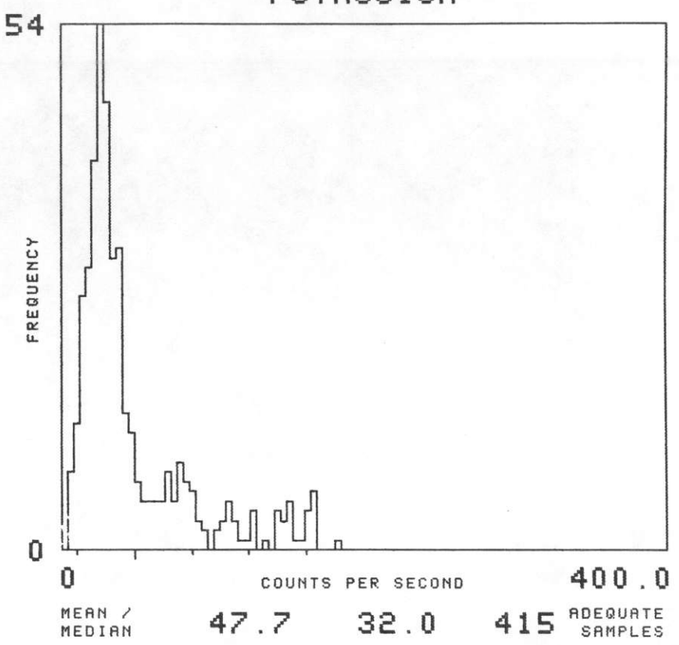
MEAN / MEDIAN 33.2 30.0 415 ADEQUATE SAMPLES

URANIUM



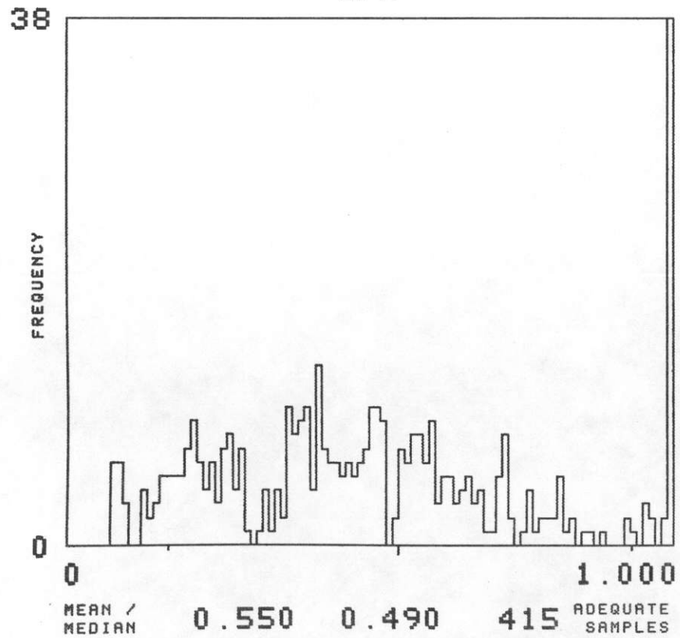
MEAN / MEDIAN 17.1 16.5 415 ADEQUATE SAMPLES

POTASSIUM



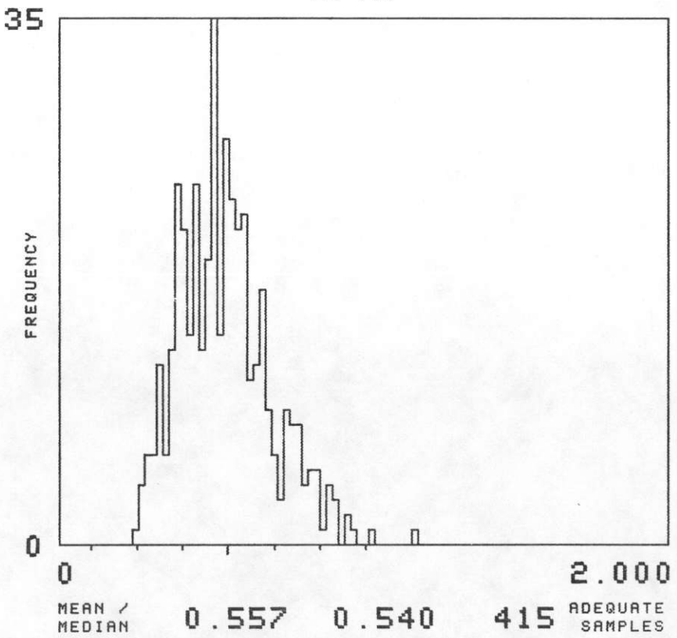
MEAN / MEDIAN 47.7 32.0 415 ADEQUATE SAMPLES

U/K



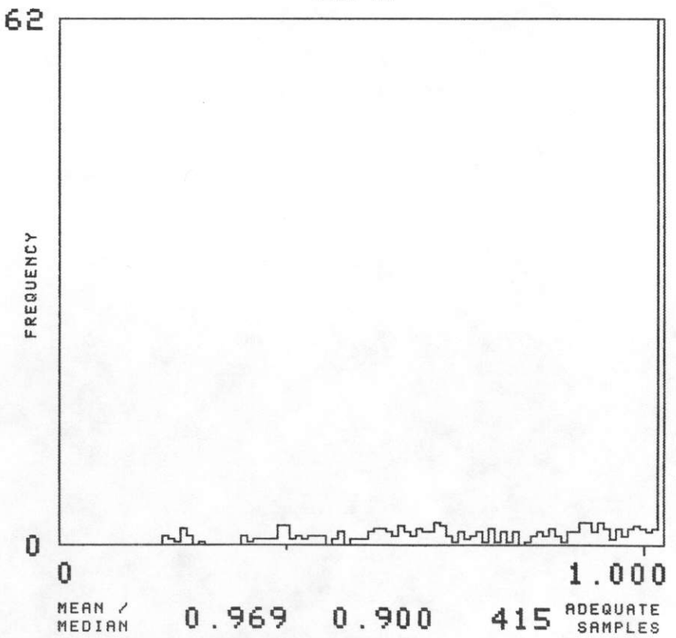
MEAN / MEDIAN 0.550 0.490 415 ADEQUATE SAMPLES

U/TH



MEAN / MEDIAN 0.557 0.540 415 ADEQUATE SAMPLES

TH/K

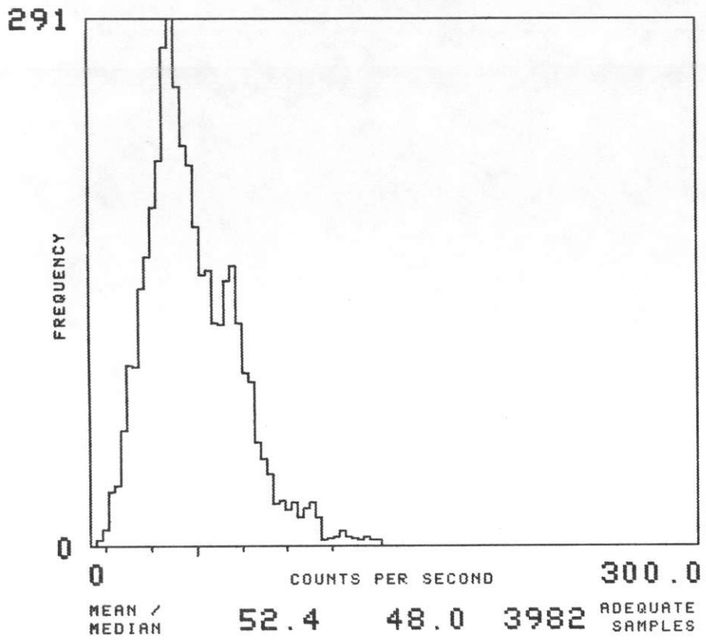


MEAN / MEDIAN 0.969 0.900 415 ADEQUATE SAMPLES

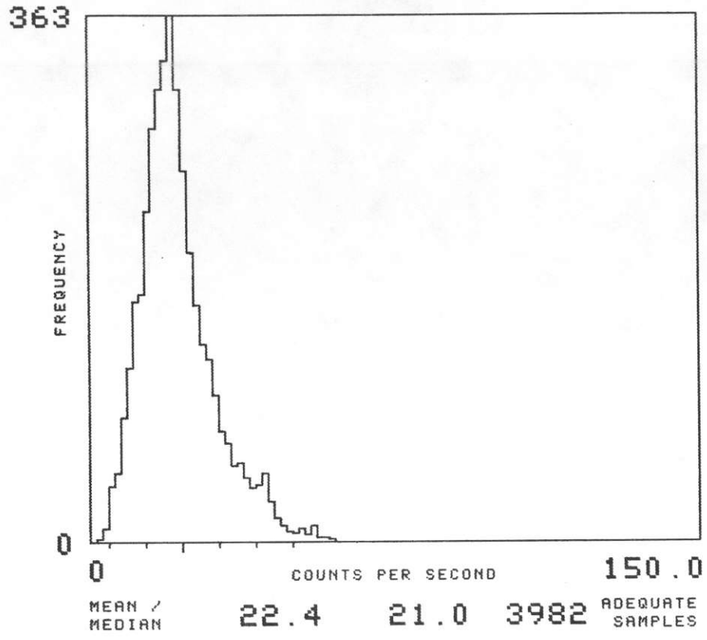
NTMS NI 13-2 SANTA FE

MAP UNIT : PC TOTAL NUMBER OF SAMPLES 4354

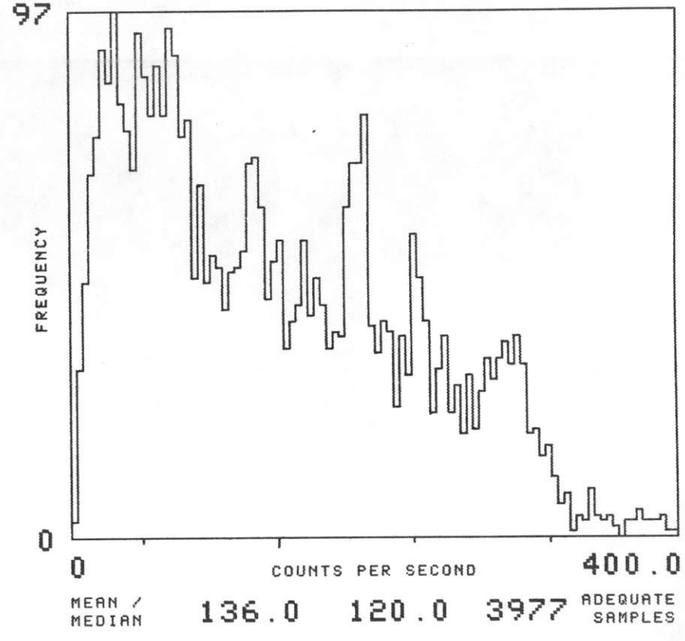
THORIUM



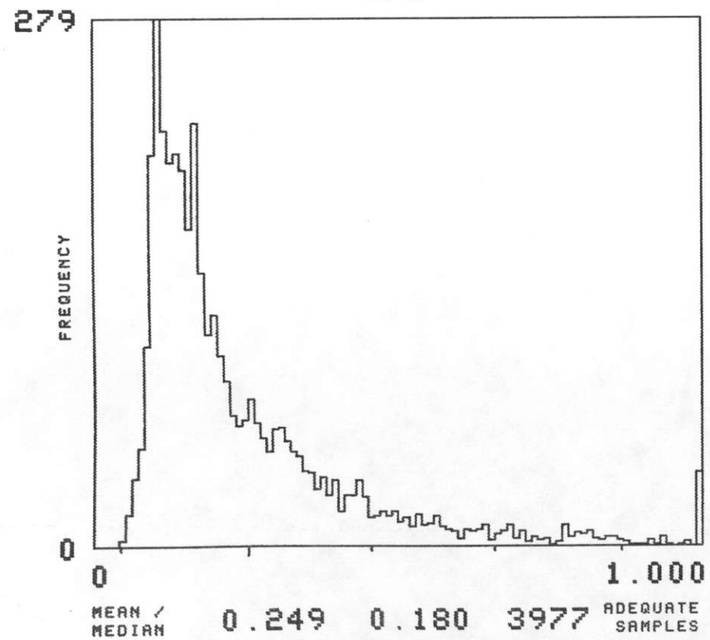
URANIUM



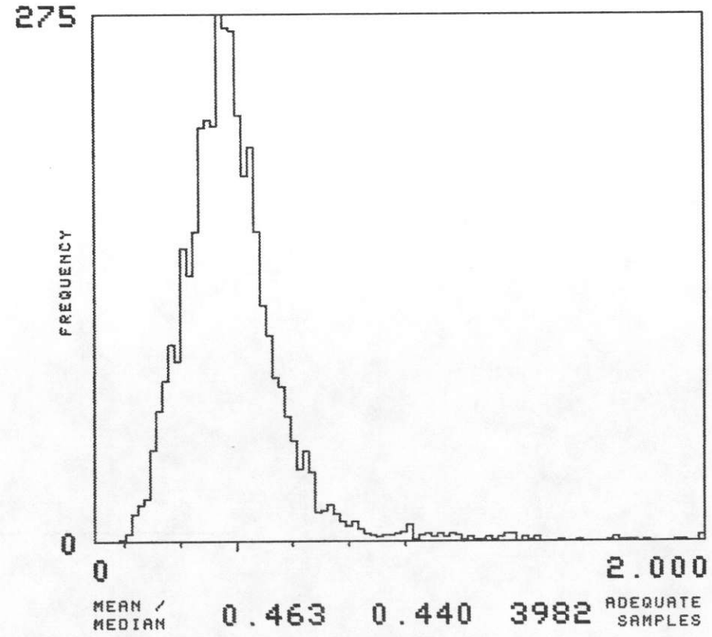
POTASSIUM



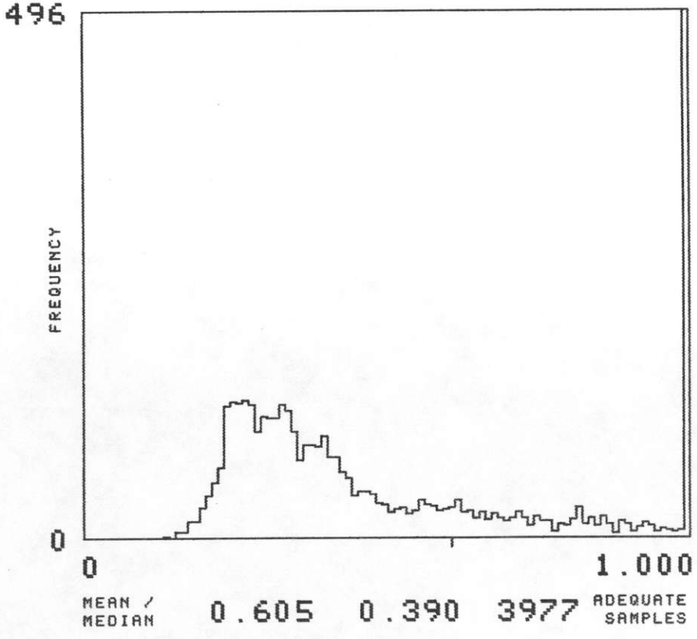
U/K



U/TH



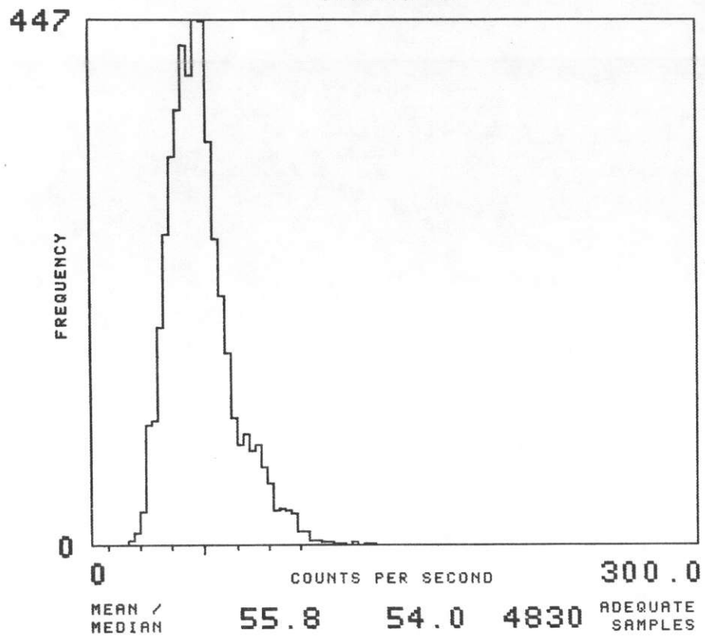
TH/K



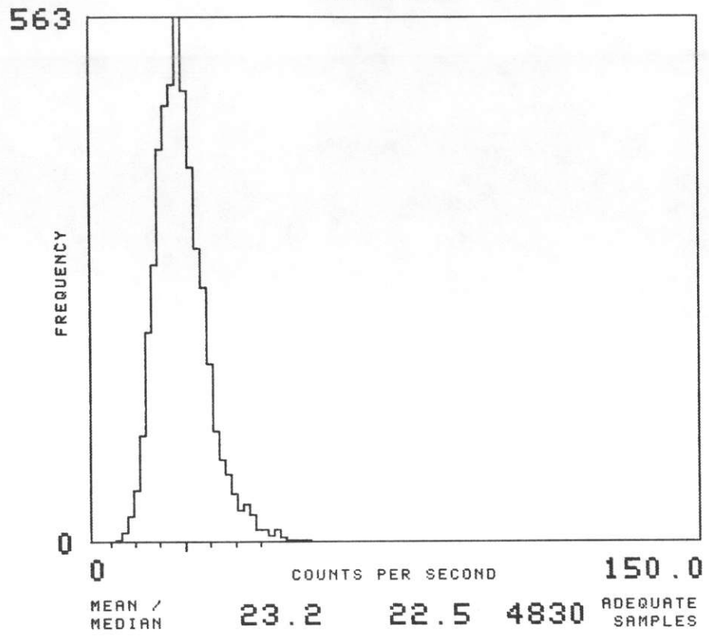
NTMS NI 13-2 SANTA FE

MAP UNIT : PCI TOTAL NUMBER OF SAMPLES 5358

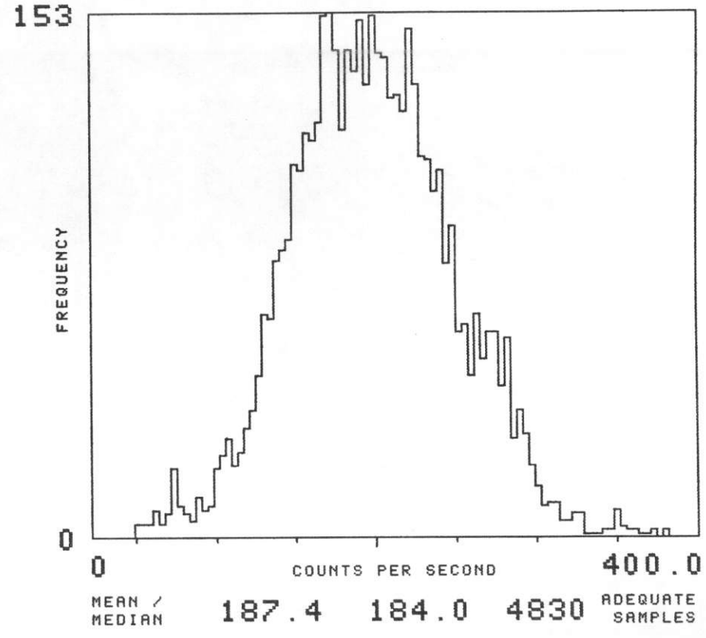
THORIUM



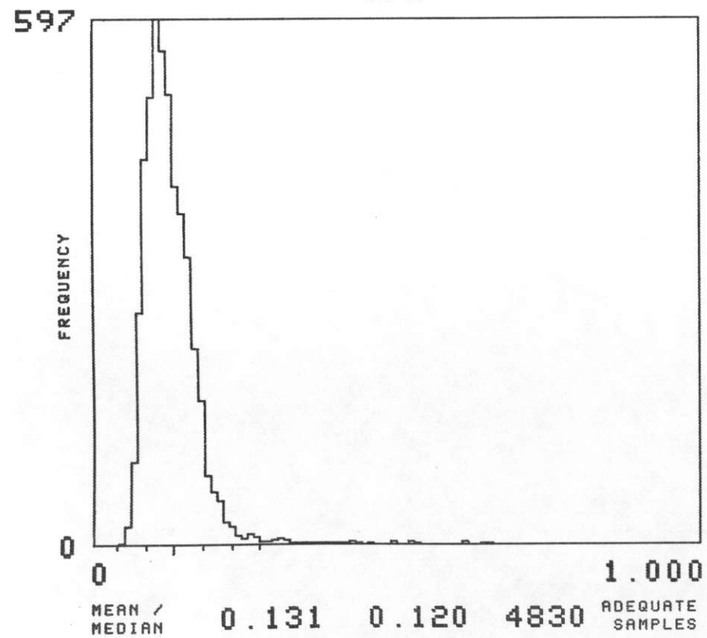
URANIUM



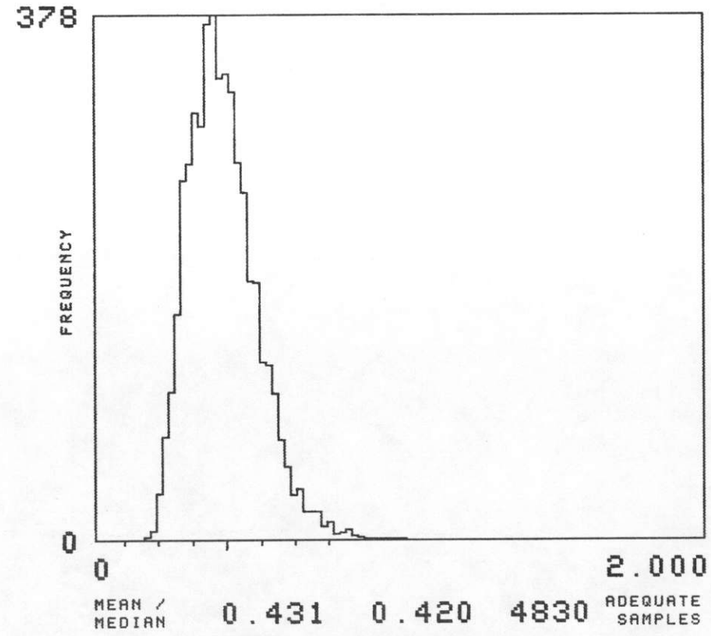
POTASSIUM



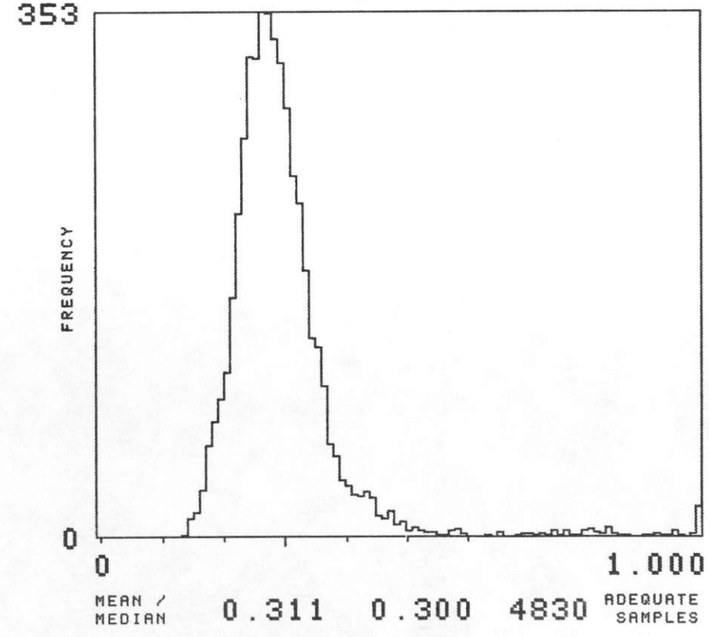
U/K



U/TH



TH/K



APPENDIX E - Statistical Tables

ANOMALY SUMMARY TABLE

ANOMALY	FLIGHT	COMPUTER MAP UNIT AND NO. ANOMALOUS SAMPLES IN UNIT	PEAK PPM	NUMBER OF SAMPLES WITH A STANDARD DEVIATION OF :							
				1	2	3	4	5	6	7	>7
1 M	24	QAL / 3 QTS / 10 / 0	46.5	2	10	1	0	0	0	0	0
2 M	24	QTS / 5 QAL / 3 PCT / 2	40.3	5	5	0	0	0	0	0	0
3	24	PCI / 1 / 0 / 0	40.3	0	0	1	0	0	0	0	0
4	24	PCI / 3 / 0 / 0	47.7	0	1	1	1	0	0	0	0
5	24	PCI / 7 / 0 / 0	48.1	0	4	1	2	0	0	0	0
6	24	PCI / 1 / 0 / 0	42.4	0	0	1	0	0	0	0	0
7	24	PCI / 4 / 0 / 0	33.0	3	1	0	0	0	0	0	0
8	24	PCI / 4 / 0 / 0	33.6	3	1	0	0	0	0	0	0
9	24	PM / 4 / 0 / 0	34.7	2	2	0	0	0	0	0	0
10	24	PM / 2 / 0 / 0	35.9	0	1	1	0	0	0	0	0
11 C	24	PC / 6 QAL / 3 / 0	45.5	3	4	2	0	0	0	0	0
12	24	QAL / 7 PC / 3 / 0	44.0	1	4	4	1	0	0	0	0
13	24	PM / 2 / 0 / 0	47.8	0	0	0	0	2	0	0	0
14 C	24	PP / 3 QAL / 2 P / 2	37.8	1	2	4	0	0	0	0	0
15	24	QAL / 3 / 0 / 0	35.1	0	3	0	0	0	0	0	0
16	24	QAL / 1 / 0 / 0	36.9	0	0	1	0	0	0	0	0
17	24	QTP / 2 / 0 / 0	30.2	0	2	0	0	0	0	0	0
18	25	QTS / 19 / 0 / 0	69.4	5	6	5	2	1	0	0	0
19	25	QTS / 4 PCI / 2 / 0	40.9	5	0	1	0	0	0	0	0
20	25	PCI / 3 / 0 / 0	32.9	2	1	0	0	0	0	0	0
21	25	PCI / 1 / 0 / 0	38.9	0	0	1	0	0	0	0	0
22	25	PCI / 6 / 0 / 0	34.0	3	3	0	0	0	0	0	0
23	25	PCI / 5 / 0 / 0	36.6	3	2	0	0	0	0	0	0
24	25	PCI / 10 / 0 / 0	36.3	7	3	0	0	0	0	0	0
25	25	PM / 5 / 0 / 0	38.4	0	2	3	0	0	0	0	0
26	25	PC / 3 / 0 / 0	48.4	0	2	1	0	0	0	0	0
27	25	PC / 1 / 0 / 0	52.0	0	0	1	0	0	0	0	0
28	25	PC / 1 / 0 / 0	55.1	0	0	0	1	0	0	0	0
29	25	PC / 2 / 0 / 0	57.4	0	0	0	2	0	0	0	0
30	25	PC / 3 / 0 / 0	52.6	0	2	1	0	0	0	0	0
31	25	PM / 2 P / 1 / 0	31.0	1	2	0	0	0	0	0	0
32	25	KGG / 2 / 0 / 0	32.2	0	2	0	0	0	0	0	0
33	25	KGH / 3 / 0 / 0	31.5	1	2	0	0	0	0	0	0
34	25	KGR / 2 / 0 / 0	39.5	0	0	2	0	0	0	0	0
35	25	TO / 1 / 0 / 0	38.3	0	0	1	0	0	0	0	0
36	26	QAL / 2 QTS / 4 / 0	47.6	2	2	2	0	0	0	0	0
37	26	QTS / 9 QAL / 3 / 0	52.7	3	5	4	0	0	0	0	0
38	26	KPA / 2 / 0 / 0	29.5	0	2	0	0	0	0	0	0
39	27	QAL / 2 / 0 / 0	45.0	0	0	1	1	0	0	0	0
40	27	QTS / 5 / 0 / 0	54.1	0	3	2	0	0	0	0	0
41 M	27	QTS / 6 / 0 / 0	41.4	5	1	0	0	0	0	0	0
42	27	KDPM / 3 / 0 / 0	32.6	2	1	0	0	0	0	0	0
43	27	J / 2 / 0 / 0	36.8	1	0	0	1	0	0	0	0
44	27	KDPM / 6 / 0 / 0	36.1	2	4	0	0	0	0	0	0
45 C	27	TO / 2 / 0 / 0	34.4	0	2	0	0	0	0	0	0
46	28	TG / 2 / 0 / 0	30.2	0	2	0	0	0	0	0	0
47	28	QTV / 3 / 0 / 0	30.8	1	2	0	0	0	0	0	0
48	28	KMR / 6 / 0 / 0	32.5	2	3	1	0	0	0	0	0
49	29	KD / 3 / 0 / 0	31.9	1	2	0	0	0	0	0	0
50	30	TRC / 2 / 0 / 0	34.0	1	0	1	0	0	0	0	0

ANOMALY SUMMARY TABLE

ANOMALY	FLIGHT	COMPUTER MAP UNIT AND NO. ANOMALOUS SAMPLES IN UNIT	PEAK PPM	NUMBER OF SAMPLES WITH A STANDARD DEVIATION OF :							
				1	2	3	4	5	6	7	>7
51	31	KD / 4 / 0 / 0	34.0	1	3	0	0	0	0	0	0
52	31	TRC / 3 / 0 / 0	30.8	2	1	0	0	0	0	0	0
53	31	TRC / 2 / 0 / 0	30.7	0	2	0	0	0	0	0	0
54	32	J / 3 / 0 / 0	25.6	2	1	0	0	0	0	0	0
55	32	TRC / 2 / 0 / 0	43.8	0	0	1	1	0	0	0	0
56	32	TRC / 1 / 0 / 0	35.8	0	0	1	0	0	0	0	0
57	33	J / 1 / 0 / 0	38.6	0	0	0	1	0	0	0	0
58	33	TRC / 7 / 0 / 0	35.7	3	3	1	0	0	0	0	0
59	33	TRC / 2 TRS / 1 / 0	32.0	1	2	0	0	0	0	0	0
60	33	TRS / 6 / 0 / 0	34.0	3	3	0	0	0	0	0	0
61	33	TRC / 2 / 0 / 0	31.1	0	2	0	0	0	0	0	0
62	34	KD / 3 / 0 / 0	34.5	2	1	0	0	0	0	0	0
63 C	34	KD / 3 / 0 / 0	36.9	1	1	1	0	0	0	0	0
64	34	TRS / 2 / 0 / 0	30.5	0	2	0	0	0	0	0	0
65 C	34	TRS / 3 / 0 / 0	35.6	1	0	2	0	0	0	0	0
66 C	34	TRS / 8 / 0 / 0	42.5	0	4	1	3	0	0	0	0
67 C	34	TRS / 1 TRC / 9 / 0	38.1	3	4	3	0	0	0	0	0
68	35	TRS / 5 / 0 / 0	30.1	3	2	0	0	0	0	0	0
69	35	TRS / 4 / 0 / 0	29.0	3	1	0	0	0	0	0	0
70	35	TRS / 2 / 0 / 0	41.6	1	0	0	1	0	0	0	0
71 C	35	TRS / 4 / 0 / 0	31.2	1	3	0	0	0	0	0	0
72	36	TRS / 3 / 0 / 0	31.3	2	1	0	0	0	0	0	0
73 C	36	PM / 3 QAL / 1 / 0	56.0	1	1	1	0	0	0	1	0
74	36	PM / 5 / 0 / 0	45.4	2	2	0	0	1	0	0	0
75	36	PM / 3 / 0 / 0	35.2	1	1	1	0	0	0	0	0
76 C	36	PP / 4 / 0 / 0	36.7	2	0	2	0	0	0	0	0
77	36	PY / 1 / 0 / 0	36.8	0	0	0	1	0	0	0	0
78 C	36	TRS / 1 TRC / 1 / 0	30.8	0	2	0	0	0	0	0	0
79	36	KD / 2 / 0 / 0	34.0	0	2	0	0	0	0	0	0
80	36	TRC / 2 / 0 / 0	35.0	1	0	1	0	0	0	0	0
81	36	TRS / 4 / 0 / 0	34.3	2	2	0	0	0	0	0	0
82	36	TRS / 5 / 0 / 0	30.1	4	1	0	0	0	0	0	0
83	36	TRS / 5 / 0 / 0	32.8	3	2	0	0	0	0	0	0
84	36	TRC / 4 / 0 / 0	34.9	0	2	2	0	0	0	0	0
85 C	37	PP / 2 / 0 / 0	34.4	0	1	1	0	0	0	0	0
86 C	37	PG / 1 PSA / 1 TRC / 1	36.9	2	0	0	1	0	0	0	0
87	37	TRC / 1 / 0 / 0	35.8	0	0	1	0	0	0	0	0
88	37	TRC / 2 / 0 / 0	33.8	1	0	1	0	0	0	0	0
89	37	JSR / 2 JM / 1 / 0	27.7	2	1	0	0	0	0	0	0
90 C	38	TR / 1 / 0 / 0	33.5	0	0	1	0	0	0	0	0
91	38	TR / 3 / 0 / 0	33.2	1	1	1	0	0	0	0	0
92 C	38	QAL / 2 / 0 / 0	34.4	0	2	0	0	0	0	0	0
93 C	38	QAL / 1 PP / 1 / 0	39.0	0	1	0	1	0	0	0	0
94	38	TRC / 4 / 0 / 0	35.3	1	2	1	0	0	0	0	0
95	38	TRC / 10 / 0 / 0	41.7	2	6	1	1	0	0	0	0
96	38	TRS / 3 / 0 / 0	31.4	2	1	0	0	0	0	0	0
97	38	TRS / 8 / 0 / 0	38.0	6	1	1	0	0	0	0	0
98	38	TRS / 7 / 0 / 0	35.0	4	2	1	0	0	0	0	0
99	38	TRS / 3 / 0 / 0	30.4	1	2	0	0	0	0	0	0
100	38	TRS / 4 / 0 / 0	33.2	2	2	0	0	0	0	0	0

ANOMALY SUMMARY TABLE

ANOMALY	FLIGHT	COMPUTER MAP UNIT AND NO. ANOMALOUS SAMPLES IN UNIT	PEAK PPM	NUMBER OF SAMPLES WITH A STANDARD DEVIATION OF :							
				1	2	3	4	5	6	7	>7
101	38	TRC / 5 / 0 / 0	29.1	4	1	0	0	0	0	0	0
102	38	JSR / 1 JM / 3 / 0	30.0	2	2	0	0	0	0	0	0
103 C	39	KM / 6 / 0 / 0	37.0	3	2	1	0	0	0	0	0
104 C	39	TR / 2 / 0 / 0	34.7	1	0	1	0	0	0	0	0
105 C	39	PP / 3 QAL / 1 / 0	34.3	2	1	1	0	0	0	0	0
106	39	PG / 2 / 0 / 0	26.8	0	2	0	0	0	0	0	0
107 C	39	PAT / 1 / 0 / 0	32.5	0	0	1	0	0	0	0	0
108	39	TRC / 5 / 0 / 0	29.3	3	2	0	0	0	0	0	0
109	39	TRC / 2 / 0 / 0	36.4	0	1	1	0	0	0	0	0
110	39	TRS / 3 / 0 / 0	30.0	2	1	0	0	0	0	0	0
111	39	TRS / 3 / 0 / 0	29.5	2	1	0	0	0	0	0	0
112	39	TRC / 4 / 0 / 0	33.7	1	2	1	0	0	0	0	0
113	39	TRC / 3 / 0 / 0	29.0	2	1	0	0	0	0	0	0
114	40	TR / 3 / 0 / 0	28.9	2	1	0	0	0	0	0	0
115	40	TR / 2 / 0 / 0	29.7	0	2	0	0	0	0	0	0
116	40	TRS / 3 / 0 / 0	32.9	1	2	0	0	0	0	0	0
117	40	TRC / 1 / 0 / 0	34.2	0	0	1	0	0	0	0	0
118	40	KD / 1 / 0 / 0	39.4	0	0	1	0	0	0	0	0
119	41	PSA / 3 / 0 / 0	27.7	1	2	0	0	0	0	0	0
120	41	TRC / 2 QAL / 1 / 0	34.0	1	2	0	0	0	0	0	0
121	41	QAL / 1 TRC / 1 / 0	30.9	0	2	0	0	0	0	0	0
122 C	41	TRC / 1 / 0 / 0	35.0	0	0	1	0	0	0	0	0
123	41	TRC / 2 / 0 / 0	36.1	1	0	1	0	0	0	0	0
124 M	41	TRS / 1 QAL / 5 / 0	30.5	5	1	0	0	0	0	0	0
125	42	TR / 1 / 0 / 0	34.6	0	0	1	0	0	0	0	0
126	42	TRC / 2 / 0 / 0	35.8	0	1	1	0	0	0	0	0
127	42	TRC / 2 / 0 / 0	31.9	0	2	0	0	0	0	0	0
128	42	TRC / 5 / 0 / 0	28.8	3	2	0	0	0	0	0	0
129	42	QAL / 2 / 0 / 0	38.6	0	1	1	0	0	0	0	0
130	43	TR / 1 PSA / 2 / 0	28.8	2	1	0	0	0	0	0	0
131 C	43	TRS / 2 / 0 / 0	34.8	0	1	1	0	0	0	0	0
132	43	TRC / 4 / 0 / 0	33.7	3	0	1	0	0	0	0	0
133	44	TR / 3 / 0 / 0	31.9	0	3	0	0	0	0	0	0
134	44	TR / 3 / 0 / 0	32.0	2	1	0	0	0	0	0	0
135	44	TR / 2 / 0 / 0	30.2	0	2	0	0	0	0	0	0
136	44	TRC / 2 / 0 / 0	31.4	0	2	0	0	0	0	0	0
137 C	44	QAL / 4 / 0 / 0	31.3	3	1	0	0	0	0	0	0
138	45	QAL / 3 / 0 / 0	42.2	2	0	0	1	0	0	0	0
139	45	PSA / 3 / 0 / 0	28.4	2	1	0	0	0	0	0	0
140	45	PSA / 2 / 0 / 0	29.4	0	2	0	0	0	0	0	0
141	45	PG / 4 / 0 / 0	35.0	1	2	1	0	0	0	0	0
142	45	TRS / 2 / 0 / 0	35.0	0	1	1	0	0	0	0	0
143	45	QAL / 4 / 0 / 0	30.5	3	1	0	0	0	0	0	0
144 C	45	TRC / 3 / 0 / 0	31.1	1	2	0	0	0	0	0	0
145 C	45	TRC / 2 / 0 / 0	33.0	0	2	0	0	0	0	0	0
146	45	TRC / 4 / 0 / 0	33.1	3	1	0	0	0	0	0	0
147 C	45	QAL / 1 / 0 / 0	37.2	0	0	1	0	0	0	0	0
148	46	QAL / 3 / 0 / 0	35.2	1	2	0	0	0	0	0	0
149 C	46	PY / 6 PG / 3 PSA / 1	28.4	7	3	0	0	0	0	0	0
150 C	46	TRC / 1 / 0 / 0	38.0	0	0	1	0	0	0	0	0

ANOMALY SUMMARY TABLE

ANOMALY	FLIGHT	COMPUTER MAP UNIT AND NO. ANOMALOUS SAMPLES IN UNIT	PEAK PPM	NUMBER OF SAMPLES WITH A STANDARD DEVIATION OF :							
				1	2	3	4	5	6	7	>7
151 C	46	TRC / 4 / 0 / 0	39.2	0	3	1	0	0	0	0	0
152 C	46	TRC / 1 / 0 / 0	41.1	0	0	0	1	0	0	0	0
153	1001	JM / 4 / 0 / 0	29.4	2	2	0	0	0	0	0	0
154	1001	TRC / 3 / 0 / 0	31.3	2	1	0	0	0	0	0	0
155	1001	KMR / 8 / 0 / 0	35.7	2	3	3	0	0	0	0	0
156	1001	KMR / 3 KPA / 1 / 0	28.5	1	3	0	0	0	0	0	0
157 C	1001	TO / 3 / 0 / 0	36.4	1	2	0	0	0	0	0	0
158	1001	TO / 3 / 0 / 0	33.2	2	1	0	0	0	0	0	0
159	1001	TO / 9 / 0 / 0	33.9	7	2	0	0	0	0	0	0
160	1001	TO / 3 / 0 / 0	35.1	1	2	0	0	0	0	0	0
161 C	1002	TRS / 2 / 0 / 0	35.0	1	0	1	0	0	0	0	0
162 C	1003	TRC / 4 / 0 / 0	30.4	3	1	0	0	0	0	0	0
163 C	1003	TRC / 3 / 0 / 0	28.2	2	1	0	0	0	0	0	0
164 C	1005	PAT / 4 PSA / 3 TRS / 1	29.5	6	2	0	0	0	0	0	0
165 C	1005	PAT / 3 / 0 / 0	30.4	2	1	0	0	0	0	0	0
166	1005	TRS / 4 / 0 / 0	29.7	3	1	0	0	0	0	0	0
167	1005	TRS / 5 / 0 / 0	29.3	3	2	0	0	0	0	0	0
168	1005	TRS / 7 / 0 / 0	29.5	5	2	0	0	0	0	0	0
169	1005	TRS / 6 / 0 / 0	32.7	3	3	0	0	0	0	0	0
170	1005	TRC / 2 / 0 / 0	30.9	0	2	0	0	0	0	0	0
171	1005	TRC / 9 / 0 / 0	32.3	5	4	0	0	0	0	0	0
172	1005	TRC / 4 / 0 / 0	32.7	1	3	0	0	0	0	0	0
173	1005	TRC / 4 / 0 / 0	38.5	1	1	2	0	0	0	0	0
174	1005	KD / 3 / 0 / 0	32.4	0	3	0	0	0	0	0	0
175	1005	KGR / 5 / 0 / 0	31.6	3	2	0	0	0	0	0	0
176	1005	KGR / 1 KGH / 2 / 0	30.3	2	1	0	0	0	0	0	0
177	1005	KD / 2 / 0 / 0	35.2	0	2	0	0	0	0	0	0
178	1005	KD / 3 / 0 / 0	36.7	1	1	1	0	0	0	0	0
179	1005	KD / 2 / 0 / 0	32.1	0	2	0	0	0	0	0	0
180	1005	KD / 3 / 0 / 0	31.9	1	2	0	0	0	0	0	0
181	1005	KD / 3 / 0 / 0	34.1	1	2	0	0	0	0	0	0
182	1005	TRS / 3 / 0 / 0	29.9	1	2	0	0	0	0	0	0
183 C	1006	TRS / 2 TRC / 2 / 0	33.6	2	2	0	0	0	0	0	0
184 C	1006	TRC / 4 / 0 / 0	33.5	1	3	0	0	0	0	0	0
185	1006	QAL / 3 TRC / 1 / 0	34.4	1	3	0	0	0	0	0	0
186 C	1006	J / 2 / 0 / 0	29.4	0	2	0	0	0	0	0	0
187	1006	J / 3 / 0 / 0	29.3	2	1	0	0	0	0	0	0
188	1006	J / 5 / 0 / 0	26.3	4	1	0	0	0	0	0	0
189	1006	KD / 8 / 0 / 0	32.6	6	2	0	0	0	0	0	0
190 C	1006	KGR / 2 / 0 / 0	32.0	0	2	0	0	0	0	0	0
191	1006	KGR / 2 / 0 / 0	32.8	0	2	0	0	0	0	0	0
192	1006	KGH / 4 KGR / 3 / 0	37.3	3	3	1	0	0	0	0	0
193	1006	KGR / 6 / 0 / 0	40.1	2	3	1	0	0	0	0	0
194	1006	KGH / 4 KC / 2 / 0	35.5	0	4	2	0	0	0	0	0
195	1006	KD / 15 / 0 / 0	34.0	2	13	0	0	0	0	0	0
196	1007	PP / 11 PM / 1 / 0	33.6	8	4	0	0	0	0	0	0
197	1007	PP / 3 / 0 / 0	33.4	1	2	0	0	0	0	0	0
198	1007	PP / 1 / 0 / 0	35.0	0	0	1	0	0	0	0	0
199	1007	PM / 4 / 0 / 0	30.3	3	1	0	0	0	0	0	0
200	1007	PM / 3 / 0 / 0	30.7	1	2	0	0	0	0	0	0

ANOMALY SUMMARY TABLE

ANOMALY	FLIGHT	COMPUTER MAP UNIT AND NO. ANOMALOUS SAMPLES IN UNIT						PEAK PPM	NUMBER OF SAMPLES WITH A STANDARD DEVIATION OF :							
									1	2	3	4	5	6	7	>7
201	1007	PM / 4		/ 0		/ 0		39.8	1	2	1	0	0	0	0	0
202	1007	PM / 2		/ 0		/ 0		32.4	0	2	0	0	0	0	0	0
203	1007	PC / 1		/ 0		/ 0		46.1	0	0	1	0	0	0	0	0
204 C	1007	QAL / 1		/ 0		/ 0		38.2	0	0	1	0	0	0	0	0
205 C	1007	QAL / 3		/ 0		/ 0		33.5	2	1	0	0	0	0	0	0
206	1007	QAL / 4		/ 0		/ 0		41.0	0	2	2	0	0	0	0	0
207	1008	PG / 5		/ 0		/ 0		26.6	3	2	0	0	0	0	0	0
208	1008	PG / 7		/ 0		/ 0		24.8	6	1	0	0	0	0	0	0
209	1008	PG / 3		/ 0		/ 0		29.2	0	3	0	0	0	0	0	0
210	1008	PG / 2		/ 0		/ 0		29.0	0	2	0	0	0	0	0	0
211	1008	PG / 1		/ 0		/ 0		31.3	0	0	1	0	0	0	0	0
212	1008	PG / 3		/ 0		/ 0		24.7	2	1	0	0	0	0	0	0
213	1008	PSA / 3		/ 0		/ 0		31.3	2	1	0	0	0	0	0	0
214 C	1008	PM / 4		/ 0		/ 0		32.0	3	1	0	0	0	0	0	0
215	1008	PM / 3		/ 0		/ 0		30.0	2	1	0	0	0	0	0	0
216	1008	PM / 3		/ 0		/ 0		31.2	2	1	0	0	0	0	0	0
217	1010	QAL / 8	QTS	/ 1		/ 0		41.7	2	0	7	0	0	0	0	0
218	1010	QTS / 9	QAL	/ 1		/ 0		43.6	5	4	1	0	0	0	0	0
219 M	1010	QAL / 2	QTS	/ 1		/ 0		32.3	1	2	0	0	0	0	0	0

NOTES: M INDICATES THAT THE ANOMALY LIES OVER A URANIUM MINE OR PROSPECT.

C INDICATES THAT THE ANOMALY LIES OVER A CULTURAL FEATURE.

W INDICATES POSSIBLE INTERFERENCE BY WEATHER PHENOMENA.

ROCK UNIT QAL

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	26.6268	65.8343	105.0418	144.2493	183.4568	222.6643	261.8718
BI214	DIST	NORMAL	3.9088	9.7338	15.5588	21.3838	27.2088	33.0338	38.8588
TL208	DIST	NORMAL	22.4060	32.5388	42.6716	52.8044	62.9372	73.0700	83.2028
U/K	DIST	NORMAL	-.0248	.0362	.0972	.1582	.2192	.2802	.3412
U/TH	DIST	NORMAL	.0668	.1822	.2976	.4130	.5284	.6438	.7592
TH/K	DIST	NORMAL	.1053	.1982	.2911	.3840	.4769	.5698	.6627

ROCK UNIT QTP

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	14.9359	54.6538	94.3717	134.0896	173.8075	213.5254	253.2433
BI214	DIST	NORMAL	6.0504	10.9494	15.8484	20.7474	25.6464	30.5454	35.4444
TL208	DIST	NORMAL	13.6260	28.3598	43.0936	57.8274	72.5612	87.2950	102.0288
U/K	DIST	NORMAL	.0249	.0710	.1171	.1632	.2093	.2554	.3015
U/TH	DIST	NORMAL	.1352	.2129	.2906	.3683	.4460	.5237	.6014
TH/K	DIST	NORMAL	.1473	.2474	.3475	.4476	.5477	.6478	.7479

ROCK UNIT QTV

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	35.4650	65.1186	94.7722	124.4258	154.0794	183.7330	213.3866
BI214	DIST	NORMAL	5.5646	10.8199	16.0752	21.3305	26.5858	31.8411	37.0964
TL208	DIST	NORMAL	22.4235	33.2598	44.0961	54.9324	65.7687	76.6050	87.4413
U/K	DIST	NORMAL	-.0284	.0423	.1130	.1837	.2544	.3251	.3958
U/TH	DIST	NORMAL	.1120	.2064	.3008	.3952	.4896	.5840	.6784
TH/K	DIST	NORMAL	.0955	.2178	.3401	.4624	.5847	.7070	.8293

ROCK UNIT QTS

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	91.3328	123.3980	155.4632	187.5284	219.5936	251.6588	283.7240
BI214	DIST	NORMAL	-2.6718	6.6577	15.9872	25.3167	34.6462	43.9757	53.3052
TL208	DIST	NORMAL	25.0662	35.5134	45.9606	56.4078	66.8550	77.3022	87.7494
U/K	DIST	NORMAL	-.0095	.0391	.0877	.1363	.1849	.2335	.2821
U/TH	DIST	NORMAL	-.0380	.1267	.2914	.4561	.6208	.7855	.9502
TH/K	DIST	NORMAL	.1526	.2031	.2536	.3041	.3546	.4051	.4556

ROCK UNIT QTI

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	95.2409	106.6910	118.1411	129.5912	141.0413	152.4914	163.9415
BI214	DIST	NORMAL	22.5177	27.5755	32.6333	37.6911	42.7489	47.8067	52.8645
TL208	DIST	NORMAL	43.8570	52.2466	60.6362	69.0258	77.4154	85.8050	94.1946
U/K	DIST	NORMAL	.1866	.2215	.2564	.2913	.3262	.3611	.3960
U/TH	DIST	NORMAL	.3915	.4436	.4957	.5478	.5999	.6520	.7041
TH/K	DIST	NORMAL	.4041	.4468	.4895	.5322	.5749	.6176	.6603

ROCK UNIT TD

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	86.1688	109.5506	132.9324	156.3142	179.6960	203.0778	226.4596
BI214	DIST	NORMAL	8.9364	14.2503	19.5642	24.8781	30.1920	35.5059	40.8198
TL208	DIST	NORMAL	36.8304	46.3118	55.7932	65.2746	74.7560	84.2374	93.7188
U/K	DIST	NORMAL	.0292	.0737	.1182	.1627	.2072	.2517	.2962
U/TH	DIST	NORMAL	.1278	.2136	.2994	.3852	.4710	.5568	.6426
TH/K	DIST	NORMAL	.2042	.2775	.3508	.4241	.4974	.5707	.6440

ROCK UNIT TES

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	142.3056	154.1454	165.9852	177.8250	189.6648	201.5046	213.3444
BI214	DIST	NORMAL	7.2194	10.6400	14.0606	17.4812	20.9018	24.3224	27.7430
TL208	DIST	NORMAL	41.4880	44.8632	48.2384	51.6136	54.9888	58.3640	61.7392
U/K	DIST	NORMAL	.0460	.0634	.0808	.0982	.1156	.1330	.1504
U/TH	DIST	NORMAL	.0930	.1762	.2594	.3426	.4258	.5090	.5922
TH/K	DIST	NORMAL	.2119	.2384	.2649	.2914	.3179	.3444	.3709

ROCK UNIT TG

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	34.5093	72.7058	110.9023	149.0988	187.2953	225.4918	263.6883
BI214	DIST	NORMAL	3.8372	8.9224	14.0076	19.0928	24.1780	29.2632	34.3484
TL208	DIST	NORMAL	14.0756	27.4761	40.8766	54.2771	67.6776	81.0781	94.4786
U/K	DIST	NORMAL	-.0318	.0250	.0818	.1386	.1954	.2522	.3090
U/TH	DIST	NORMAL	.0481	.1536	.2591	.3646	.4701	.5756	.6811
TH/K	DIST	NORMAL	.0388	.1537	.2686	.3835	.4984	.6133	.7282

ROCK UNIT KPN

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	85.7602	102.2587	118.7572	135.2557	151.7542	168.2527	184.7512
BI214	DIST	NORMAL	4.6239	10.6054	16.5869	22.5684	28.5499	34.5314	40.5129
TL208	DIST	NORMAL	31.7030	41.5519	51.4008	61.2497	71.0986	80.9475	90.7964
U/K	DIST	NORMAL	-.0066	.0532	.1130	.1728	.2326	.2924	.3522
U/TH	DIST	NORMAL	.0715	.1729	.2743	.3757	.4771	.5785	.6799
TH/K	DIST	NORMAL	.2282	.3041	.3800	.4559	.5318	.6077	.6836

ROCK UNIT KM

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	82.6875	107.2767	131.8659	156.4551	181.0443	205.6335	230.2227
BI214	DIST	NORMAL	10.1034	14.8118	19.5202	24.2286	28.9370	33.6454	38.3538
TL208	DIST	NORMAL	27.5078	40.5491	53.5904	66.6317	79.6730	92.7143	105.7556
U/K	DIST	NORMAL	.0622	.0938	.1254	.1570	.1886	.2202	.2518
U/TH	DIST	NORMAL	.1446	.2198	.2950	.3702	.4454	.5206	.5958
TH/K	DIST	NORMAL	.2934	.3378	.3822	.4266	.4710	.5154	.5598

ROCK UNIT KC

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	71.1039	93.9863	116.8687	139.7511	162.6335	185.5159	208.3983
BI214	DIST	NORMAL	12.5809	16.1294	19.6779	23.2264	26.7749	30.3234	33.8719
TL208	DIST	NORMAL	36.6438	47.8408	59.0378	70.2348	81.4318	92.6288	103.8258
U/K	DIST	NORMAL	.0428	.0855	.1282	.1709	.2136	.2563	.2990
U/TH	DIST	NORMAL	.1281	.1979	.2677	.3375	.4073	.4771	.5469
TH/K	DIST	NORMAL	.2975	.3679	.4383	.5087	.5791	.6495	.7199

ROCK UNIT KGH

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	52.8122	77.6438	102.4754	127.3070	152.1386	176.9702	201.8018
BI214	DIST	NORMAL	10.1902	14.5354	18.8806	23.2258	27.5710	31.9162	36.2614
TL208	DIST	NORMAL	30.4694	41.3906	52.3118	63.2330	74.1542	85.0754	95.9966
U/K	DIST	NORMAL	.0182	.0756	.1330	.1904	.2478	.3052	.3626
U/TH	DIST	NORMAL	.0990	.1916	.2842	.3768	.4694	.5620	.6546
TH/K	DIST	NORMAL	.3015	.3690	.4365	.5040	.5715	.6390	.7065

ROCK UNIT KGG

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	67.3673	89.7957	112.2241	134.6525	157.0809	179.5093	201.9377
BI214	DIST	NORMAL	13.1073	17.2316	21.3559	25.4802	29.6045	33.7288	37.8531
TL208	DIST	NORMAL	31.9719	41.6891	51.4063	61.1235	70.8407	80.5579	90.2751
U/K	DIST	NORMAL	.1304	.1505	.1706	.1907	.2108	.2309	.2510
U/TH	DIST	NORMAL	.2709	.3204	.3699	.4194	.4689	.5184	.5679
TH/K	DIST	NORMAL	.3028	.3546	.4064	.4582	.5100	.5618	.6136

ROCK UNIT KGR

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	40.8958	69.7393	98.5828	127.4263	156.2698	185.1133	213.9568
BI214	DIST	NORMAL	8.7198	13.7543	18.7888	23.8233	28.8578	33.8923	38.9268
TL208	DIST	NORMAL	28.3555	40.3101	52.2647	64.2193	76.1739	88.1285	100.0831
U/K	DIST	NORMAL	-.0083	.0606	.1295	.1984	.2673	.3362	.4051
U/TH	DIST	NORMAL	.0982	.1921	.2860	.3799	.4738	.5677	.6616
TH/K	DIST	NORMAL	.2322	.3276	.4230	.5184	.6138	.7092	.8046

ROCK UNIT KGSD

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-23.3991	20.9984	65.3959	109.7934	154.1909	198.5884	242.9859
BI214	DIST	NORMAL	5.7288	9.9480	14.1672	18.3864	22.6056	26.8248	31.0440
TL208	DIST	NORMAL	3.7271	19.3462	34.9653	50.5844	66.2035	81.8226	97.4417
U/K	DIST	NORMAL	.0516	.0943	.1370	.1797	.2224	.2651	.3078
U/TH	DIST	NORMAL	.2051	.2611	.3171	.3731	.4291	.4851	.5411
TH/K	DIST	NORMAL	.1605	.2690	.3775	.4860	.5945	.7030	.8115

ROCK UNIT KD

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	4.4235	38.6963	72.9691	107.2419	141.5147	175.7875	210.0603
BI214	DIST	NORMAL	4.4305	10.0925	15.7545	21.4165	27.0785	32.7405	38.4025
TL208	DIST	NORMAL	18.3349	31.3900	44.4451	57.5002	70.5553	83.6104	96.6655
U/K	DIST	NORMAL	-.0389	.0465	.1319	.2173	.3027	.3881	.4735
U/TH	DIST	NORMAL	.0973	.1914	.2855	.3796	.4737	.5678	.6619
TH/K	DIST	NORMAL	.1528	.2914	.4300	.5686	.7072	.8458	.9844

ROCK UNIT KDPM

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-2.0265	33.8766	69.7797	105.6828	141.5859	177.4890	213.3921
BI214	DIST	NORMAL	2.6551	8.8524	15.0497	21.2470	27.4443	33.6416	39.8389
TL208	DIST	NORMAL	14.9948	28.5584	42.1220	55.6856	69.2492	82.8128	96.3764
U/K	DIST	NORMAL	-.0452	.0431	.1314	.2197	.3080	.3963	.4846
U/TH	DIST	NORMAL	.0966	.1938	.2910	.3882	.4854	.5826	.6798
TH/K	DIST	NORMAL	.1594	.2937	.4280	.5623	.6966	.8309	.9652

ROCK UNIT KPA

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	3.7748	37.4447	71.1146	104.7845	138.4544	172.1243	205.7942
BI214	DIST	NORMAL	9.6577	13.5664	17.4751	21.3838	25.2925	29.2012	33.1099
TL208	DIST	NORMAL	23.3935	35.4363	47.4791	59.5219	71.5647	83.6075	95.6503
U/K	DIST	NORMAL	-.0444	.0460	.1364	.2268	.3172	.4076	.4980
U/TH	DIST	NORMAL	.0938	.1863	.2788	.3713	.4638	.5563	.6488
TH/K	DIST	NORMAL	.1727	.3169	.4611	.6053	.7495	.8937	1.0379

ROCK UNIT KMR

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-6.6845	20.1117	46.9079	73.7041	100.5003	127.2965	154.0927
BI214	DIST	NORMAL	.3892	6.0925	11.7958	17.4991	23.2024	28.9057	34.6090
TL208	DIST	NORMAL	15.8373	26.3450	36.8527	47.3604	57.8681	68.3758	78.8835
U/K	DIST	NORMAL	-.1152	.0105	.1362	.2619	.3876	.5133	.6390
U/TH	DIST	NORMAL	.0669	.1684	.2699	.3714	.4729	.5744	.6759
TH/K	DIST	NORMAL	.0453	.2628	.4803	.6978	.9153	1.1328	1.3503

ROCK UNIT J

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	1.6733	27.9769	54.2805	80.5841	106.8877	133.1913	159.4949
BI214	DIST	NORMAL	.2057	5.7368	11.2679	16.7990	22.3301	27.8612	33.3923
TL208	DIST	NORMAL	14.6913	24.2878	33.8843	43.4808	53.0773	62.6738	72.2703
U/K	DIST	NORMAL	-.0705	.0292	.1289	.2286	.3283	.4280	.5277
U/TH	DIST	NORMAL	-.0112	.1238	.2588	.3938	.5288	.6638	.7988
TH/K	DIST	NORMAL	.0975	.2575	.4175	.5775	.7375	.8975	1.0575

ROCK UNIT JM

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-20.3280	15.7475	51.8230	87.8985	123.9740	160.0495	196.1250
BI214	DIST	NORMAL	1.7158	7.5952	13.4746	19.3540	25.2334	31.1128	36.9922
TL208	DIST	NORMAL	8.8363	21.6418	34.4473	47.2528	60.0583	72.8638	85.6693
U/K	DIST	NORMAL	-.0884	.0244	.1372	.2500	.3628	.4756	.5884
U/TH	DIST	NORMAL	.0333	.1626	.2919	.4212	.5505	.6798	.8091
TH/K	DIST	NORMAL	.0348	.2199	.4050	.5901	.7752	.9603	1.1454

ROCK UNIT JSR

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-8.2069	25.4342	59.0753	92.7164	126.3575	159.9986	193.6397
BI214	DIST	NORMAL	4.6281	8.9654	13.3027	17.6400	21.9773	26.3146	30.6519
TL208	DIST	NORMAL	15.4888	24.1149	32.7410	41.3671	49.9932	58.6193	67.2454
U/K	DIST	NORMAL	-.0621	.0301	.1223	.2145	.3067	.3989	.4911
U/TH	DIST	NORMAL	.1029	.2138	.3247	.4356	.5465	.6574	.7683
TH/K	DIST	NORMAL	-.0536	.1301	.3138	.4975	.6812	.8649	1.0486

ROCK UNIT JTR

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-169.9008	-59.4197	51.0614	161.5425	272.0236	382.5047	492.9858
BI214	DIST	NORMAL	-3.8471	4.1442	12.1355	20.1268	28.1181	36.1094	44.1007
TL208	DIST	NORMAL	-42.6515	-9.6939	23.2637	56.2213	89.1789	122.1365	155.0941
U/K	DIST	NORMAL	.0142	.0602	.1062	.1522	.1982	.2442	.2902
U/TH	DIST	NORMAL	.1275	.2165	.3055	.3945	.4835	.5725	.6615
TH/K	DIST	NORMAL	.0803	.1829	.2855	.3881	.4907	.5933	.6959

ROCK UNIT TR

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	32.8584	62.1070	91.3556	120.6042	149.8528	179.1014	208.3500
BI214	DIST	NORMAL	7.6451	12.1321	16.6191	21.1061	25.5931	30.0801	34.5671
TL208	DIST	NORMAL	27.7444	36.2974	44.8504	53.4034	61.9564	70.5094	79.0624
U/K	DIST	NORMAL	.0186	.0736	.1286	.1836	.2386	.2936	.3486
U/TH	DIST	NORMAL	.1334	.2225	.3116	.4007	.4898	.5789	.6680
TH/K	DIST	NORMAL	.1085	.2271	.3457	.4643	.5829	.7015	.8201

ROCK UNIT TRC

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	17.0840	45.5913	74.0986	102.6059	131.1132	159.6205	188.1278
BI214	DIST	NORMAL	3.2444	8.7832	14.3220	19.8608	25.3996	30.9384	36.4772
TL208	DIST	NORMAL	22.5145	31.4691	40.4237	49.3783	58.3329	67.2875	76.2421
U/K	DIST	NORMAL	-.0262	.0514	.1290	.2066	.2842	.3618	.4394
U/TH	DIST	NORMAL	.0601	.1763	.2925	.4087	.5249	.6411	.7573
TH/K	DIST	NORMAL	.1532	.2706	.3880	.5054	.6228	.7402	.8576

ROCK UNIT TRS

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	11.3093	40.5862	69.8631	99.1400	128.4169	157.6938	186.9707
BI214	DIST	NORMAL	4.0134	9.5621	15.1108	20.6595	26.2082	31.7569	37.3056
TL208	DIST	NORMAL	23.2313	32.5337	41.8361	51.1385	60.4409	69.7433	79.0457
U/K	DIST	NORMAL	-.0351	.0515	.1381	.2247	.3113	.3979	.4845
U/TH	DIST	NORMAL	.0608	.1775	.2942	.4109	.5276	.6443	.7610
TH/K	DIST	NORMAL	.1367	.2731	.4095	.5459	.6823	.8187	.9551

ROCK UNIT P

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	4.0516	45.3896	86.7276	128.0656	169.4036	210.7416	252.0796
BI214	DIST	NORMAL	3.6453	9.4918	15.3383	21.1848	27.0313	32.8778	38.7243
TL208	DIST	NORMAL	16.6136	27.9524	39.2912	50.6300	61.9688	73.3076	84.6464
U/K	DIST	NORMAL	.0209	.0723	.1237	.1751	.2265	.2779	.3293
U/TH	DIST	NORMAL	.1531	.2427	.3323	.4219	.5115	.6011	.6907
TH/K	DIST	NORMAL	.0926	.2016	.3106	.4196	.5286	.6376	.7466

ROCK UNIT PAT

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	13.3761	48.3759	83.3757	118.3755	153.3753	188.3751	223.3749
BI214	DIST	NORMAL	4.1680	9.2852	14.4024	19.5196	24.6368	29.7540	34.8712
TL208	DIST	NORMAL	17.3115	27.2103	37.1091	47.0079	56.9067	66.8055	76.7043
U/K	DIST	NORMAL	-.0546	.0241	.1028	.1815	.2602	.3389	.4176
U/TH	DIST	NORMAL	.0377	.1681	.2985	.4289	.5593	.6897	.8201
TH/K	DIST	NORMAL	.0872	.1985	.3098	.4211	.5324	.6437	.7550

ROCK UNIT PSA

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	36.0233	66.5028	96.9823	127.4618	157.9413	188.4208	218.9003
BI214	DIST	NORMAL	3.7266	8.7940	13.8614	18.9288	23.9962	29.0636	34.1310
TL208	DIST	NORMAL	11.9988	24.4996	37.0004	49.5012	62.0020	74.5028	87.0036
U/K	DIST	NORMAL	-.0008	.0512	.1032	.1552	.2072	.2592	.3112
U/TH	DIST	NORMAL	.0333	.1546	.2759	.3972	.5185	.6398	.7611
TH/K	DIST	NORMAL	.1762	.2486	.3210	.3934	.4658	.5382	.6106

ROCK UNIT PG

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	3.6241	36.2341	68.8441	101.4541	134.0641	166.6741	199.2841
BI214	DIST	NORMAL	-.7841	4.8705	10.5251	16.1797	21.8343	27.4889	33.1435
TL208	DIST	NORMAL	6.8935	17.7992	28.7049	39.6106	50.5163	61.4220	72.3277
U/K	DIST	NORMAL	-.0236	.0402	.1040	.1678	.2316	.2954	.3592
U/TH	DIST	NORMAL	.0413	.1651	.2889	.4127	.5365	.6603	.7841
TH/K	DIST	NORMAL	.1233	.2174	.3115	.4056	.4997	.5938	.6879

ROCK UNIT PY

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	5.0324	45.8747	86.7170	127.5593	168.4016	209.2439	250.0862
BI214	DIST	NORMAL	.0571	5.5393	11.0215	16.5037	21.9859	27.4681	32.9503
TL208	DIST	NORMAL	8.5940	18.6804	28.7668	38.8532	48.9396	59.0260	69.1124
U/K	DIST	NORMAL	-.0384	.0211	.0806	.1401	.1996	.2591	.3186
U/TH	DIST	NORMAL	.0198	.1581	.2964	.4347	.5730	.7113	.8496
TH/K	DIST	NORMAL	.0611	.1482	.2353	.3224	.4095	.4966	.5837

ROCK UNIT PP

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	2.3755	54.8405	107.3055	159.7705	212.2355	264.7005	317.1655
BI214	DIST	NORMAL	6.7297	11.6733	16.6169	21.5605	26.5041	31.4477	36.3913
TL208	DIST	NORMAL	6.8581	23.3075	39.7569	56.2063	72.6557	89.1051	105.5545
U/K	DIST	NORMAL	-.0196	.0366	.0928	.1490	.2052	.2614	.3176
U/TH	DIST	NORMAL	.0779	.1862	.2945	.4028	.5111	.6194	.7277
TH/K	DIST	NORMAL	-.0297	.1076	.2449	.3822	.5195	.6568	.7941

ROCK UNIT PENN

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	96.5116	118.5387	140.5658	162.5929	184.6200	206.6471	228.6742
BI214	DIST	NORMAL	8.7561	16.1549	23.5537	30.9525	38.3513	45.7501	53.1489
TL208	DIST	NORMAL	35.5866	48.9263	62.2660	75.6057	88.9454	102.2851	115.6248
U/K	DIST	NORMAL	.0893	.1228	.1563	.1898	.2233	.2568	.2903
U/TH	DIST	NORMAL	.1982	.2688	.3394	.4100	.4806	.5512	.6218
TH/K	DIST	NORMAL	.3743	.4040	.4337	.4634	.4931	.5228	.5525

ROCK UNIT PM

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-50.0010	-3.4456	43.1098	89.6652	136.2206	182.7760	229.3314
BI214	DIST	NORMAL	5.4855	10.7986	16.1117	21.4248	26.7379	32.0510	37.3641
TL208	DIST	NORMAL	8.6252	21.4819	34.3386	47.1953	60.0520	72.9087	85.7654
U/K	DIST	NORMAL	-.0550	.0568	.1686	.2804	.3922	.5040	.6158
U/TH	DIST	NORMAL	.0939	.2198	.3457	.4716	.5975	.7234	.8493
TH/K	DIST	NORMAL	-.1099	.1284	.3667	.6050	.8433	1.0816	1.3199

ROCK UNIT PS

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-54.5422	-8.1963	38.1496	84.4955	130.8414	177.1873	223.5332
BI214	DIST	NORMAL	10.0345	13.6654	17.2963	20.9272	24.5581	28.1890	31.8199
TL208	DIST	NORMAL	10.7526	22.6504	34.5482	46.4460	58.3438	70.2416	82.1394
U/K	DIST	NORMAL	-.0237	.0814	.1865	.2916	.3967	.5018	.6069
U/TH	DIST	NORMAL	.2157	.2991	.3825	.4659	.5493	.6327	.7161
TH/K	DIST	NORMAL	.0089	.2149	.4209	.6269	.8329	1.0389	1.2449

ROCK UNIT MD

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-65.8971	-28.0322	9.8327	47.6976	85.5625	123.4274	161.2923
BI214	DIST	NORMAL	6.1464	9.8129	13.4794	17.1459	20.8124	24.4789	28.1454
TL208	DIST	NORMAL	-2.8605	9.1729	21.2063	33.2397	45.2731	57.3065	69.3399
U/K	DIST	NORMAL	-.6018	-.2180	.1658	.5496	.9334	1.3172	1.7010
U/TH	DIST	NORMAL	.1037	.2547	.4057	.5567	.7077	.8587	1.0097
TH/K	DIST	NORMAL	-.8114	-.2181	.3752	.9685	1.5618	2.1551	2.7484

ROCK UNIT PC

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	-132.1314	-42.7491	46.6332	136.0155	225.3978	314.7801	404.1624
BI214	DIST	NORMAL	-4.6924	4.3453	13.3830	22.4207	31.4584	40.4961	49.5338
TL208	DIST	NORMAL	-14.7050	7.6538	30.0126	52.3714	74.7302	97.0890	119.4478
U/K	DIST	NORMAL	-.3685	-.1627	.0431	.2489	.4547	.6605	.8663
U/TH	DIST	NORMAL	-.0919	.0929	.2777	.4625	.6473	.8321	1.0169
TH/K	DIST	NORMAL	-1.3049	-.6683	-.0317	.6049	1.2415	1.8781	2.5147

ROCK UNIT PCI

			-3	-2	-1	0	+1	+2	+3
K40	DIST	NORMAL	28.6850	81.5904	134.4958	187.4012	240.3066	293.2120	346.1174
BI214	DIST	NORMAL	4.7425	10.8930	17.0435	23.1940	29.3445	35.4950	41.6455
TL208	DIST	NORMAL	8.3885	24.2057	40.0229	55.8401	71.6573	87.4745	103.2917
U/K	DIST	NORMAL	-.0081	.0383	.0847	.1311	.1775	.2239	.2703
U/TH	DIST	NORMAL	.0946	.2067	.3188	.4309	.5430	.6551	.7672
TH/K	DIST	NORMAL	.0082	.1091	.2100	.3109	.4118	.5127	.6136

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	24						25					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	156,971	27,660	56,127	,183	,492	,386	112,348	20,299	46,413	,192	,448	,431
QTP	151,451	28,941	62,739	,192	,462	,415	,000	,000	,000	,000	,000	,000
QTV	132,653	20,384	53,035	,155	,392	,400	148,429	25,699	65,462	,175	,397	,442
QTS	187,152	35,844	61,090	,194	,595	,330	202,282	41,921	57,032	,214	,736	,285
QTI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TO	167,174	22,971	61,321	,138	,378	,367	175,085	24,045	69,714	,138	,345	,399
TES	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TKI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPN	148,389	16,934	60,565	,118	,299	,404	,000	,000	,000	,000	,000	,000
KM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KC	153,147	22,962	62,044	,151	,372	,407	,000	,000	,000	,000	,000	,000
KGH	154,761	20,117	62,928	,132	,321	,410	101,665	22,948	54,021	,247	,441	,543
KGG	133,676	24,358	57,922	,183	,425	,435	135,701	26,685	64,561	,199	,413	,483
KGR	138,002	20,732	59,348	,153	,348	,437	132,158	22,673	61,690	,175	,367	,473
KGSD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KD	89,419	18,859	42,353	,286	,510	,543	105,632	20,923	52,566	,207	,403	,519
KDPM	56,082	10,481	40,295	,212	,288	,736	69,345	15,109	42,848	,257	,368	,678
KPA	114,018	19,797	59,222	,185	,337	,549	95,922	18,799	55,697	,206	,345	,600
KMR	80,643	17,871	50,527	,238	,357	,656	73,088	14,860	47,116	,211	,316	,680
J	83,323	18,540	43,004	,268	,449	,583	130,617	23,989	51,244	,184	,470	,392
JM	89,043	17,309	45,728	,215	,385	,560	73,678	15,872	38,909	,246	,434	,560
JSR	96,100	19,822	46,558	,212	,429	,491	,000	,000	,000	,000	,000	,000
JTR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TRC	117,152	22,657	53,140	,192	,414	,467	,000	,000	,000	,000	,000	,000
TRS	78,719	7,099	31,743	,091	,228	,405	87,285	17,954	23,970	,208	,749	,278
P	164,486	30,197	55,542	,181	,533	,343	168,439	27,766	55,350	,166	,512	,327
PAT	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PSA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PY	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PP	204,426	34,959	68,736	,176	,510	,349	,000	,000	,000	,000	,000	,000
PENN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PM	103,994	23,554	54,572	,266	,428	,731	82,281	20,368	47,303	,279	,435	,677
PS	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
MD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PC	70,913	16,717	42,090	,476	,367	1,598	153,476	28,250	62,011	,259	,431	,803
PCI	188,809	30,616	58,084	,166	,543	,321	210,653	31,245	59,372	,150	,549	,281

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	26						27					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	129,601	26,359	54,602	,221	,500	,480	230,038	27,550	58,176	,125	,473	,258
QTP	87,138	18,541	52,841	,235	,359	,651	,000	,000	,000	,000	,000	,000
QTV	140,168	18,476	58,300	,132	,318	,417	146,072	22,275	63,216	,153	,356	,432
QTS	226,517	32,866	55,319	,153	,606	,248	199,033	34,707	57,692	,178	,608	,292
QTI	129,591	37,691	69,026	,291	,548	,532	,000	,000	,000	,000	,000	,000
TO	167,128	24,203	67,509	,145	,361	,404	162,299	26,149	69,604	,162	,381	,431
TES	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TKI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KC	,000	,000	,000	,000	,000	,000	136,193	22,867	72,196	,170	,319	,535
KGH	129,516	19,102	54,966	,149	,350	,426	116,488	20,905	62,684	,185	,336	,551
KGG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGR	118,226	22,997	60,099	,216	,395	,541	110,414	22,878	58,075	,223	,407	,544
KGSD	93,815	15,888	44,559	,177	,356	,498	,000	,000	,000	,000	,000	,000
KD	97,146	21,519	56,745	,248	,384	,633	104,394	19,363	54,848	,201	,360	,554
KDPM	104,545	19,433	51,570	,192	,380	,503	134,676	25,950	65,491	,196	,400	,490
KPA	130,052	25,204	63,975	,199	,397	,508	137,498	19,912	69,439	,150	,288	,521
KMR	80,488	17,519	49,612	,226	,347	,660	93,127	18,627	52,565	,203	,350	,584
J	88,917	17,049	51,489	,216	,346	,623	77,601	15,398	40,485	,198	,375	,542
JM	67,381	12,517	36,556	,215	,351	,596	,000	,000	,000	,000	,000	,000
JSR	60,768	22,069	42,787	,363	,518	,708	,000	,000	,000	,000	,000	,000
JTR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TRC	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TRS	57,845	12,431	36,894	,215	,343	,640	58,983	18,940	28,071	,321	,677	,476
P	124,246	17,427	44,029	,144	,394	,366	63,085	12,478	29,122	,197	,429	,460
PAT	,000	,000	,000	,000	,000	,000	117,399	13,901	45,184	,131	,324	,399
PBA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PY	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PP	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PENN	,000	,000	,000	,000	,000	,000	153,676	22,993	63,915	,152	,376	,413
PM	79,641	21,358	50,227	,317	,436	,734	,000	,000	,000	,000	,000	,000
PS	,000	,000	,000	,000	,000	,000	86,229	20,998	48,225	,294	,451	,652
MD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PC	138,365	23,493	56,160	,244	,439	,561	66,409	18,227	43,988	,353	,420	,873
PCI	228,494	23,315	59,981	,108	,407	,269	141,759	23,421	59,833	,178	,398	,460
							163,983	22,076	52,303	,151	,445	,351

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	28						29					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	199,589	25,280	52,343	,128	,487	,264	141,523	18,433	37,073	,161	,528	,293
QTP	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
QTV	117,277	22,640	52,582	,193	,426	,460	87,061	11,914	38,644	,187	,333	,517
QTS	205,921	23,203	55,141	,115	,437	,268	184,359	19,102	50,100	,106	,390	,276
QTI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TO	133,439	17,681	55,789	,137	,316	,425	138,285	17,365	62,598	,125	,278	,454
TES	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TG	113,523	24,285	56,807	,226	,443	,515	58,967	12,532	43,808	,213	,286	,744
TKI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KC	137,856	24,616	70,000	,181	,357	,509	146,436	24,260	75,402	,168	,326	,518
KGH	146,574	24,705	74,625	,170	,334	,512	,000	,000	,000	,000	,000	,000
KGG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGR	138,446	26,018	74,771	,189	,351	,541	138,755	23,301	67,981	,174	,349	,497
KGSD	,000	,000	,000	,000	,000	,000	76,462	16,687	45,954	,221	,362	,606
KD	108,651	20,545	55,540	,207	,376	,543	104,882	18,317	52,559	,182	,346	,529
KDPM	103,967	20,675	53,691	,224	,405	,539	,000	,000	,000	,000	,000	,000
KPA	106,433	21,478	58,391	,212	,371	,567	100,017	18,726	62,054	,196	,306	,639
KMR	80,119	17,703	45,180	,230	,387	,586	68,554	15,036	42,504	,232	,363	,644
J	82,015	13,494	41,074	,198	,334	,535	75,978	14,325	41,288	,214	,361	,585
JM	64,497	14,936	33,375	,241	,448	,534	,000	,000	,000	,000	,000	,000
JSR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
JTR	100,647	18,581	34,619	,189	,536	,354	55,655	10,969	28,337	,197	,393	,511
TR	114,646	20,974	55,051	,185	,370	,484	,000	,000	,000	,000	,000	,000
TRC	108,052	18,111	37,228	,174	,511	,344	128,413	14,358	42,032	,122	,357	,341
TRS	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
P	127,713	26,415	50,295	,212	,532	,411	129,212	23,970	60,030	,188	,404	,468
PAT	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PSA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PY	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PP	123,083	23,778	60,874	,204	,397	,512	131,463	22,438	61,743	,177	,369	,480
PENN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PM	84,675	20,813	46,385	,287	,458	,622	93,155	21,945	50,919	,265	,446	,599
PS	96,950	13,047	27,649	,137	,476	,291	53,979	18,658	37,511	,374	,509	,749
MD	35,323	15,419	42,568	,441	,368	1,221	60,799	20,562	51,286	,346	,402	,859
PC	81,771	19,360	43,212	,273	,463	,603	113,077	18,265	36,624	,199	,530	,396
PCI	180,178	21,772	52,267	,131	,434	,310	171,475	22,185	51,780	,135	,438	,310

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	30						31					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	.000	.000	.000	.000	.000	.000	111.795	17.912	45.438	.200	.390	.474
QTP	168.416	25.514	73.742	.156	.348	.453	.000	.000	.000	.000	.000	.000
QTV	.000	.000	.000	.000	.000	.000	135.323	18.039	51.557	.134	.350	.382
QTS	135.207	20.312	40.737	.154	.506	.305	128.384	13.012	39.981	.102	.332	.313
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	106.041	14.360	55.758	.136	.258	.526	.000	.000	.000	.000	.000	.000
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KC	149.857	23.124	72.365	.156	.325	.487	134.773	22.889	69.959	.172	.335	.521
KGH	145.080	23.178	73.615	.163	.321	.509	128.738	23.220	62.686	.190	.384	.493
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	138.149	25.469	72.334	.188	.357	.529	144.390	23.727	70.311	.166	.342	.488
KGSD	103.236	17.907	39.186	.180	.461	.394	154.362	22.206	67.529	.149	.333	.447
KD	109.516	18.925	55.869	.179	.341	.524	123.536	21.003	59.682	.174	.354	.497
KDPM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMR	72.788	16.049	47.838	.224	.330	.713	60.848	14.324	35.365	.239	.413	.599
J	73.119	14.389	42.937	.199	.330	.609	88.587	13.415	38.877	.165	.354	.457
JM	60.560	11.844	39.736	.197	.301	.664	.000	.000	.000	.000	.000	.000
JSR	.000	.000	.000	.000	.000	.000	68.806	12.840	26.956	.192	.481	.398
JTR	160.236	20.220	51.901	.126	.391	.324	327.480	31.507	107.572	.097	.293	.331
TR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TRC	114.631	17.682	43.800	.163	.416	.388	113.290	19.720	47.168	.179	.422	.425
TRS	.000	.000	.000	.000	.000	.000	124.668	22.682	54.833	.185	.417	.443
P	97.186	23.862	52.295	.253	.461	.554	.000	.000	.000	.000	.000	.000
PAT	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PSA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PY	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PP	92.935	20.177	53.170	.221	.387	.589	.000	.000	.000	.000	.000	.000
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	103.632	20.483	47.684	.249	.447	.554	84.258	21.156	45.692	.278	.477	.593
PS	97.284	22.019	49.700	.274	.451	.607	71.019	22.262	49.904	.325	.453	.721
MD	38.485	19.925	32.437	.542	.638	.892	60.017	14.235	28.330	.298	.589	.499
PC	134.771	22.250	50.931	.223	.452	.498	158.798	24.056	56.459	.176	.447	.395
PCI	196.845	23.336	58.026	.122	.413	.299	173.908	22.562	59.277	.149	.396	.374

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	32						33					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	119,229	18,770	55,776	,167	,351	,481	137,837	21,023	51,158	,186	,447	,403
QTP	145,009	20,696	68,237	,144	,309	,470	173,728	19,626	62,340	,113	,315	,359
QTV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
QTS	195,662	21,706	62,521	,111	,353	,321	195,351	20,125	63,999	,103	,316	,328
QTI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TO	220,090	25,155	69,944	,116	,361	,320	,000	,000	,000	,000	,000	,000
TES	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TKI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KC	148,263	20,491	66,948	,140	,306	,458	96,382	17,142	58,997	,181	,292	,623
KGH	129,909	20,951	66,716	,164	,319	,518	124,460	19,935	60,413	,163	,332	,492
KGG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGR	132,067	20,343	66,161	,155	,312	,500	140,748	20,926	70,245	,153	,302	,508
KGSD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KD	137,910	23,712	65,758	,174	,363	,481	117,726	20,503	60,478	,179	,342	,525
KDPM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMR	45,153	13,304	33,124	,299	,401	,747	,000	,000	,000	,000	,000	,000
J	92,926	14,371	44,498	,166	,333	,486	83,265	16,740	41,145	,207	,411	,518
JM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
JSR	36,215	15,394	26,738	,423	,576	,752	,000	,000	,000	,000	,000	,000
JTR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TR	108,054	15,654	45,698	,144	,342	,425	81,707	17,128	52,555	,219	,329	,661
TRC	125,450	19,162	48,537	,161	,409	,393	117,083	21,193	46,517	,186	,454	,407
TRS	119,219	20,281	52,692	,183	,391	,467	122,306	22,234	56,171	,199	,411	,477
P	85,004	18,762	50,406	,231	,384	,600	158,528	17,943	52,493	,127	,347	,363
PAT	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PSA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PY	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PP	125,994	19,018	51,834	,161	,375	,448	152,220	20,917	60,929	,148	,361	,417
PENN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PM	103,807	18,837	49,583	,207	,388	,542	103,403	19,063	50,061	,207	,406	,522
PS	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
MD	112,593	17,836	39,774	,190	,450	,419	73,148	18,044	46,524	,252	,402	,635
PC	133,924	19,030	45,306	,168	,422	,404	214,180	20,925	74,640	,101	,287	,353
PCI	208,420	21,787	63,891	,107	,357	,309	214,254	19,652	64,571	,093	,313	,300

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	34						35					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	180,131	21,121	59,421	,123	,364	,339	136,655	18,857	55,356	,149	,352	,433
QTP	,000	,000	,000	,000	,000	,000	118,473	21,310	49,697	,188	,442	,422
QTV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
QTS	177,417	21,944	61,633	,124	,359	,348	185,841	22,283	66,323	,120	,338	,358
QTI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TO	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TES	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TKI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KC	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGH	73,904	22,142	43,306	,301	,515	,590	,000	,000	,000	,000	,000	,000
KGG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGR	101,225	17,125	63,697	,174	,276	,634	88,992	17,792	49,909	,219	,360	,605
KGSD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KD	113,923	21,018	63,452	,193	,337	,575	108,418	20,728	59,700	,203	,350	,584
KDPM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
J	75,855	17,052	44,535	,226	,383	,591	74,894	14,223	45,987	,202	,313	,651
JM	55,844	16,743	36,688	,316	,461	,681	90,142	19,349	50,418	,243	,409	,586
JSR	79,463	14,956	33,290	,192	,453	,422	95,989	18,565	44,634	,205	,441	,467
JTR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TR	85,101	19,626	58,886	,236	,337	,700	94,837	12,354	36,490	,133	,339	,391
TRC	104,199	19,771	48,558	,203	,418	,479	103,275	19,656	48,746	,197	,412	,488
TRS	116,482	24,483	58,444	,224	,427	,516	99,871	21,444	52,531	,235	,415	,563
P	124,804	16,965	36,150	,139	,457	,320	119,342	20,742	50,217	,183	,416	,441
PAT	,000	,000	,000	,000	,000	,000	100,093	17,871	46,529	,179	,384	,466
PSA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PG	89,690	15,998	38,298	,184	,443	,429	158,270	17,971	54,880	,145	,329	,447
PY	99,027	18,679	37,870	,192	,507	,384	137,138	19,355	49,210	,143	,401	,359
PP	187,445	24,196	81,859	,144	,309	,469	204,641	18,503	50,884	,100	,371	,268
PENN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PM	78,154	19,574	44,105	,270	,465	,586	70,823	18,605	39,564	,282	,484	,587
PS	,000	,000	,000	,000	,000	,000	86,418	20,599	48,640	,287	,443	,643
MD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PC	257,197	27,386	94,117	,113	,306	,373	180,133	17,508	40,997	,100	,432	,236
PCI	163,332	17,508	50,892	,112	,347	,321	,000	,000	,000	,000	,000	,000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	36						37					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	136.215	23.754	55.144	.192	.444	.425	139.779	21.501	59.517	.166	.369	.440
QTP	180.958	20.785	55.201	.115	.377	.305	133.515	23.600	54.764	.177	.434	.411
QTV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTS	220.091	23.352	64.453	.106	.363	.293	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TES	.000	.000	.000	.000	.000	.000	177.825	17.481	51.614	.098	.343	.291
TG	184.831	16.597	45.084	.096	.377	.251	150.035	14.843	64.073	.103	.235	.434
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KC	.000	.000	.000	.000	.000	.000	139.065	22.556	56.274	.162	.400	.405
KGH	.000	.000	.000	.000	.000	.000	132.159	18.634	52.627	.141	.354	.398
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	133.297	26.607	69.123	.202	.385	.527	103.527	20.139	52.754	.199	.381	.527
KDPM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	60.246	19.212	39.804	.332	.510	.661
KMR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
J	89.189	17.420	44.797	.220	.425	.510	91.493	14.515	42.845	.162	.340	.476
JM	97.495	21.260	50.896	.228	.420	.540	72.326	23.036	39.351	.350	.590	.600
JSR	65.227	15.899	36.885	.254	.435	.593	49.984	21.568	37.081	.432	.587	.750
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TRC	107.839	20.361	47.355	.197	.436	.448	109.552	19.561	50.354	.188	.394	.477
TRS	104.979	24.271	55.364	.250	.452	.543	87.674	17.674	45.929	.211	.386	.550
P	125.968	16.062	45.281	.128	.369	.359	108.387	18.879	44.200	.180	.426	.425
PAT	.000	.000	.000	.000	.000	.000	99.098	17.489	34.205	.178	.595	.369
PSA	141.875	15.858	48.993	.112	.325	.345	135.925	19.792	54.286	.149	.377	.403
PG	121.944	16.831	44.829	.138	.376	.372	114.858	17.137	42.969	.151	.401	.380
PY	154.653	18.967	46.684	.120	.404	.312	114.266	16.971	41.725	.149	.408	.366
PP	180.061	23.260	44.750	.129	.507	.266	122.061	21.224	54.422	.177	.391	.454
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	87.249	25.401	40.900	.300	.638	.474	97.850	21.019	45.376	.218	.473	.464
PS	87.720	18.758	35.823	.226	.537	.416	80.233	19.640	37.816	.246	.524	.472
MD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PC	83.155	18.188	37.509	.221	.489	.453	82.050	18.597	33.123	.230	.567	.406
PCI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	38						39					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	135,581	26,511	57,410	,201	,463	,439	154,237	25,360	57,625	,166	,449	,404
QTP	114,451	19,394	45,652	,171	,428	,399	119,378	20,255	41,823	,169	,482	,353
QTV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
QTS	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
QTI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TO	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TES	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TG	128,613	19,079	40,645	,147	,466	,316	,000	,000	,000	,000	,000	,000
TKI	,000	,000	,000	,000	,000	,000	244,581	30,146	118,166	,125	,261	,481
KMV	,000	,000	,000	,000	,000	,000	252,282	31,414	120,181	,125	,262	,476
KPN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KM	145,769	27,288	61,252	,186	,443	,420	163,546	28,083	68,161	,178	,425	,421
KC	135,555	24,193	54,958	,178	,440	,405	,000	,000	,000	,000	,000	,000
KGH	136,253	31,446	68,084	,234	,465	,502	,000	,000	,000	,000	,000	,000
KGG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGSD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KD	102,032	17,590	50,098	,179	,350	,513	140,074	21,841	54,598	,157	,401	,391
KDPM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
J	87,961	17,434	44,587	,192	,355	,510	80,859	17,448	42,341	,241	,410	,588
JM	93,757	27,088	42,831	,323	,657	,500	116,596	10,020	37,543	,086	,268	,322
JSR	123,960	19,382	34,482	,158	,568	,279	106,539	14,486	39,269	,145	,371	,389
JTR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TR	104,721	21,342	52,135	,210	,411	,512	113,455	20,607	52,344	,189	,397	,485
TRC	104,763	21,851	49,825	,224	,446	,492	104,546	19,451	49,683	,195	,396	,495
TRS	101,179	25,346	53,048	,266	,484	,550	103,306	20,460	54,778	,204	,376	,545
P	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PAT	126,045	17,068	48,241	,138	,358	,388	146,519	22,608	56,817	,156	,403	,391
PSA	147,801	18,830	47,682	,125	,400	,316	139,599	22,599	56,325	,165	,423	,399
PG	104,435	13,011	40,211	,123	,330	,383	103,722	16,531	41,870	,158	,395	,404
PY	105,004	13,108	29,493	,143	,473	,301	139,418	15,915	36,904	,116	,438	,294
PP	168,955	20,899	47,204	,132	,449	,287	213,759	20,588	47,188	,099	,439	,225
PENN	162,593	30,953	75,606	,190	,410	,463	,000	,000	,000	,000	,000	,000
PM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PS	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
MD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PC	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PCI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	40						41					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	144.255	21.225	59.505	.151	.356	.420	130.999	22.789	55.785	.184	.412	.441
QTP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	141.452	24.589	66.687	.183	.380	.484	148.314	24.267	69.682	.164	.350	.471
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	161.499	26.947	67.456	.170	.406	.418	.000	.000	.000	.000	.000	.000
KC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGH	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	88.129	21.044	51.871	.279	.420	.652	82.451	19.875	52.282	.265	.381	.716
KDPM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
J	118.318	20.871	31.000	.193	.821	.252	.000	.000	.000	.000	.000	.000
JM	92.873	17.844	57.783	.231	.328	.683	137.865	21.643	63.358	.169	.343	.485
JSR	73.999	13.983	44.268	.187	.316	.607	.000	.000	.000	.000	.000	.000
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	108.826	20.756	52.340	.200	.413	.498	117.568	23.488	59.384	.206	.402	.526
TRC	106.070	20.587	51.742	.203	.404	.510	104.376	19.555	50.709	.194	.388	.502
TRS	106.200	21.124	57.041	.204	.374	.552	119.424	19.290	53.810	.165	.359	.463
P	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PAT	136.940	18.621	51.567	.139	.365	.387	101.238	17.027	48.943	.170	.354	.498
PSA	131.891	17.231	51.272	.136	.347	.391	119.046	17.942	46.765	.156	.398	.391
PG	102.321	13.736	39.733	.137	.345	.400	91.309	12.342	33.603	.137	.373	.373
PY	87.848	6.920	29.941	.082	.264	.346	107.469	13.440	29.900	.126	.446	.299
PP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PCI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	42						43					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	144,145	22,286	54,861	.165	.417	.392	153,153	17,434	52,826	.117	.333	.356
QTP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	132,162	24,475	58,644	.187	.420	.446	.000	.000	.000	.000	.000	.000
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGH	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	62,891	19,774	47,153	.338	.425	.807	.000	.000	.000	.000	.000	.000
KDPM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
J	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JM	92,592	20,786	43,675	.233	.488	.474	.000	.000	.000	.000	.000	.000
JSR	77,009	24,782	36,072	.324	.687	.471	.000	.000	.000	.000	.000	.000
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	170,558	25,153	62,102	.149	.408	.366	123,221	21,757	49,896	.182	.442	.411
TRC	97,670	19,609	51,209	.212	.390	.541	97,965	18,789	48,287	.201	.394	.510
TRS	93,139	18,173	47,738	.205	.378	.533	106,022	18,670	50,177	.186	.379	.498
P	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PAT	136,787	16,992	50,478	.126	.342	.372	125,358	18,127	45,483	.158	.409	.382
PSA	123,927	16,250	49,094	.136	.341	.397	133,009	17,373	47,512	.133	.368	.363
PG	98,167	11,557	32,867	.119	.346	.343	110,846	16,915	40,070	.156	.435	.362
PY	154,284	15,958	39,863	.105	.430	.257	115,119	14,469	34,113	.126	.415	.309
PP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PCI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	44						45					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	155,269	18,848	50,678	,121	,372	,330	149,473	22,159	51,720	,152	,438	,350
QTP	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
QTV	,000	,000	,000	,000	,000	,000	139,813	27,725	60,820	,199	,456	,438
QTS	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
QTI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TO	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TES	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TKI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMV	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KC	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGH	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGG	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KGSD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KD	,000	,000	,000	,000	,000	,000	118,850	13,536	35,296	,119	,383	,305
KDPM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KPA	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
KMR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
J	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
JM	,000	,000	,000	,000	,000	,000	102,129	14,220	40,451	,138	,348	,396
JSR	,000	,000	,000	,000	,000	,000	91,866	15,068	36,193	,159	,419	,417
JTR	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
TR	134,765	23,545	54,413	,181	,436	,414	152,382	22,868	54,224	,152	,428	,359
TRC	90,875	17,770	44,661	,205	,402	,510	102,259	21,020	48,204	,215	,441	,487
TRS	99,896	18,331	45,666	,193	,406	,477	107,250	20,181	46,899	,205	,437	,468
P	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PAT	119,702	18,846	43,982	,167	,433	,387	86,972	16,859	39,685	,220	,428	,526
PSA	123,766	21,379	46,160	,179	,473	,376	139,664	21,090	47,226	,153	,460	,337
PG	116,680	14,448	40,572	,126	,359	,355	124,487	16,728	41,922	,139	,406	,343
PY	140,887	16,516	41,736	,117	,396	,300	150,000	18,702	45,378	,127	,413	,305
PP	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PENN	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PM	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PS	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
MD	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PC	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000
PCI	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000	,000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	46						1001					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	133.628	19.284	46.510	.146	.420	.351	140.904	19.265	53.377	.139	.366	.383
QTP	109.569	16.431	49.372	.152	.342	.449	.000	.000	.000	.000	.000	.000
QTV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	.000	.000	.000	.000	.000	.000	147.184	28.092	64.742	.195	.441	.449
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGH	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	.000	.000	.000	.000	.000	.000	56.998	20.972	46.501	.419	.459	.911
KDPM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	74.815	22.390	44.079	.319	.529	.617
KMR	.000	.000	.000	.000	.000	.000	50.954	24.969	50.240	.531	.502	1.056
J	.000	.000	.000	.000	.000	.000	48.246	19.290	38.202	.453	.512	.884
JM	91.271	12.357	47.762	.135	.259	.525	59.224	22.196	46.839	.420	.485	.894
JSR	143.580	18.647	52.110	.136	.357	.391	102.175	18.603	44.681	.201	.422	.490
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	132.476	19.316	47.522	.147	.409	.361	.000	.000	.000	.000	.000	.000
TRC	120.323	20.197	49.897	.179	.411	.430	114.188	20.461	49.513	.188	.421	.447
TRS	109.479	16.054	45.887	.154	.356	.433	.000	.000	.000	.000	.000	.000
P	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PAT	78.074	16.540	39.847	.212	.412	.515	.000	.000	.000	.000	.000	.000
PSA	138.330	18.551	49.719	.135	.377	.360	.000	.000	.000	.000	.000	.000
PG	113.642	14.662	37.983	.128	.396	.338	.000	.000	.000	.000	.000	.000
PY	137.367	14.797	37.902	.109	.393	.279	.000	.000	.000	.000	.000	.000
PP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PCI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	1002						1003					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	.000	.000	.000	.000	.000	.000	139.957	20.320	66.928	.145	.307	.478
QTP	135.510	22.052	68.347	.163	.326	.504	123.638	17.737	55.563	.145	.319	.453
QTV	.000	.000	.000	.000	.000	.000	51.299	16.731	36.698	.357	.469	.780
QTS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGH	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	122.694	24.313	67.905	.206	.366	.564	98.268	21.820	58.820	.232	.377	.621
KDPM	.000	.000	.000	.000	.000	.000	68.583	20.178	52.106	.347	.398	.837
KPA	100.423	20.946	59.772	.236	.359	.640	99.984	22.603	60.858	.249	.382	.648
KMR	68.324	15.361	44.843	.257	.351	.749	73.000	19.439	53.162	.291	.372	.771
J	72.005	15.410	38.282	.227	.409	.566	66.782	16.426	41.582	.260	.399	.667
JM	.000	.000	.000	.000	.000	.000	64.986	21.369	53.204	.345	.403	.850
JSR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TRC	93.967	18.645	50.620	.215	.374	.575	91.442	20.446	51.371	.238	.405	.587
TRS	87.183	19.622	52.700	.233	.375	.620	93.130	21.531	54.767	.258	.400	.648
P	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PAT	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PSA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PY	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PCI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	1004						1005					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	.000	.000	.000	.000	.000	.000	84.569	24.493	44.486	.303	.555	.554
QTP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTV	73.848	22.541	53.962	.311	.419	.756	110.780	23.667	53.455	.216	.446	.487
QTS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	126.669	26.252	61.698	.209	.426	.490	.000	.000	.000	.000	.000	.000
KM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KC	125.040	23.893	61.687	.191	.390	.494	.000	.000	.000	.000	.000	.000
KGH	85.161	17.396	41.492	.209	.422	.493	79.935	27.872	49.741	.352	.562	.626
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	98.186	19.246	52.719	.210	.392	.539	108.986	28.632	59.101	.272	.497	.547
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	101.566	22.066	58.759	.247	.393	.612	103.511	26.476	58.781	.278	.462	.602
KDPM	102.146	21.554	56.588	.224	.391	.571	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
J	72.311	19.564	47.576	.318	.425	.727	.000	.000	.000	.000	.000	.000
JM	45.584	13.954	37.711	.307	.369	.845	106.415	25.475	55.743	.252	.466	.536
JSR	66.961	21.148	47.044	.323	.445	.725	87.992	20.641	50.774	.235	.407	.579
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TRC	95.370	18.307	53.405	.210	.350	.595	80.438	25.519	50.739	.338	.509	.654
TRS	84.593	20.704	52.452	.264	.400	.661	81.815	24.568	46.228	.319	.556	.587
P	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PAT	.000	.000	.000	.000	.000	.000	82.689	22.466	39.216	.303	.579	.528
PSA	.000	.000	.000	.000	.000	.000	84.159	20.917	35.161	.261	.609	.443
PG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PY	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PCI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	1006						1007					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	103.189	23.245	48.259	.235	.492	.476	115.438	21.021	46.921	.201	.453	.441
QTP	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTV	91.407	26.154	54.896	.289	.481	.602	.000	.000	.000	.000	.000	.000
QTS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KC	82.235	28.599	50.373	.369	.593	.620	.000	.000	.000	.000	.000	.000
KGH	124.943	27.563	62.691	.225	.446	.506	.000	.000	.000	.000	.000	.000
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	119.996	29.188	63.676	.255	.469	.544	.000	.000	.000	.000	.000	.000
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	93.663	25.583	54.263	.290	.481	.603	.000	.000	.000	.000	.000	.000
KDPM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
J	86.122	21.225	47.625	.257	.452	.569	.000	.000	.000	.000	.000	.000
JM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JSR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TRC	82.004	22.427	46.362	.285	.486	.593	.000	.000	.000	.000	.000	.000
TRS	83.297	22.870	48.664	.305	.476	.636	100.706	20.950	48.201	.223	.446	.496
P	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PAT	.000	.000	.000	.000	.000	.000	99.457	22.097	45.476	.233	.501	.470
PSA	.000	.000	.000	.000	.000	.000	78.701	18.788	41.656	.251	.461	.546
PG	.000	.000	.000	.000	.000	.000	69.338	17.159	34.856	.263	.500	.536
PY	.000	.000	.000	.000	.000	.000	105.406	15.800	34.967	.209	.468	.434
PP	.000	.000	.000	.000	.000	.000	175.158	25.535	48.487	.166	.544	.312
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	.000	.000	.000	.000	.000	.000	92.943	26.488	49.078	.328	.566	.572
PS	.000	.000	.000	.000	.000	.000	120.543	24.340	54.224	.279	.476	.562
MD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PC	.000	.000	.000	.000	.000	.000	197.050	32.514	63.048	.199	.522	.384
PCI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

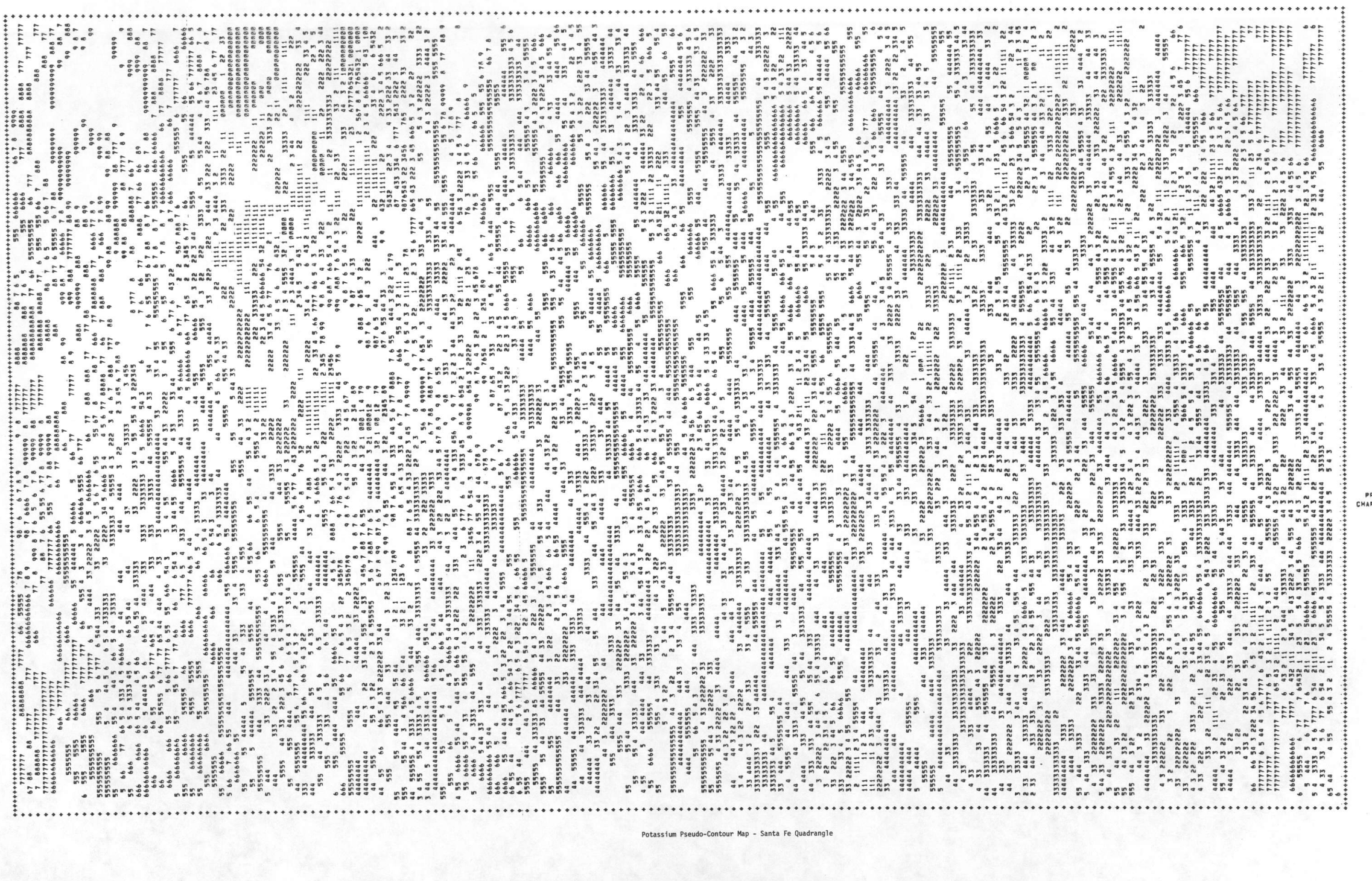
	1008						1009					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	70.590	23.327	44.936	.346	.550	.640	122.071	21.338	57.178	.188	.378	.498
QTP	.000	.000	.000	.000	.000	.000	126.995	17.050	42.545	.171	.428	.382
QTV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGH	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KDPM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
J	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JSR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	.000	.000	.000	.000	.000	.000	114.988	19.724	54.254	.181	.369	.490
TRC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TRS	.000	.000	.000	.000	.000	.000	89.903	19.350	54.297	.237	.358	.667
P	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PAT	.000	.000	.000	.000	.000	.000	100.274	22.147	58.886	.221	.377	.588
PSA	98.288	22.111	46.422	.227	.516	.463	131.738	19.660	57.630	.153	.354	.438
PG	104.661	21.631	45.956	.213	.482	.450	75.866	14.686	39.291	.196	.372	.528
PY	115.615	18.679	40.423	.178	.479	.371	93.889	16.680	37.883	.178	.449	.404
PP	118.927	18.675	41.248	.163	.467	.354	142.409	19.844	46.832	.144	.429	.339
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	85.981	22.669	41.684	.352	.566	.611	100.695	17.737	42.625	.211	.429	.505
PS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MD	29.478	16.854	27.897	.742	.625	1.195	.000	.000	.000	.000	.000	.000
PC	50.501	18.239	26.321	.456	.781	.637	.000	.000	.000	.000	.000	.000
PCI	.000	.000	.000	.000	.000	.000	168.513	20.485	48.609	.125	.431	.294

LINE BASED MEAN CONCENTRATIONS
AND RATIOS PER ROCK TYPE

	1010						1009					
	K40	BI214	TL208	U/K	U/TH	TH/K	K40	BI214	TL208	U/K	U/TH	TH/K
QAL	170,405	21,441	57,394	.126	.379	.343	122,071	21,338	57,178	.188	.378	.498
QTP	189,907	22,914	68,720	.121	.335	.362	126,995	17,050	42,545	.171	.428	.382
QTV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
QTS	184,482	22,572	55,531	.122	.409	.303	.000	.000	.000	.000	.000	.000
QTI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TO	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TES	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TG	149,306	20,557	56,735	.142	.370	.388	.000	.000	.000	.000	.000	.000
TKI	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMV	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KM	153,995	22,346	66,365	.147	.343	.431	.000	.000	.000	.000	.000	.000
KC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGH	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGG	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KGSD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KDPM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KPA	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
KMR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
J	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JM	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JSR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
JTR	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TR	.000	.000	.000	.000	.000	.000	114,988	19,724	54,254	.181	.369	.490
TRC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
TRS	.000	.000	.000	.000	.000	.000	89,903	19,350	54,297	.237	.358	.667
P	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PAT	.000	.000	.000	.000	.000	.000	100,274	22,147	58,886	.221	.377	.588
PSA	.000	.000	.000	.000	.000	.000	131,738	19,660	57,630	.153	.354	.438
PG	.000	.000	.000	.000	.000	.000	75,866	14,686	39,291	.196	.372	.528
PY	.000	.000	.000	.000	.000	.000	93,889	16,680	37,883	.178	.449	.404
PP	.000	.000	.000	.000	.000	.000	142,409	19,844	46,832	.144	.429	.339
PENN	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PM	.000	.000	.000	.000	.000	.000	100,695	17,737	42,625	.211	.429	.505
PS	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
MD	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PC	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
PCI	.000	.000	.000	.000	.000	.000	168.513	20.485	48.609	.125	.431	.294

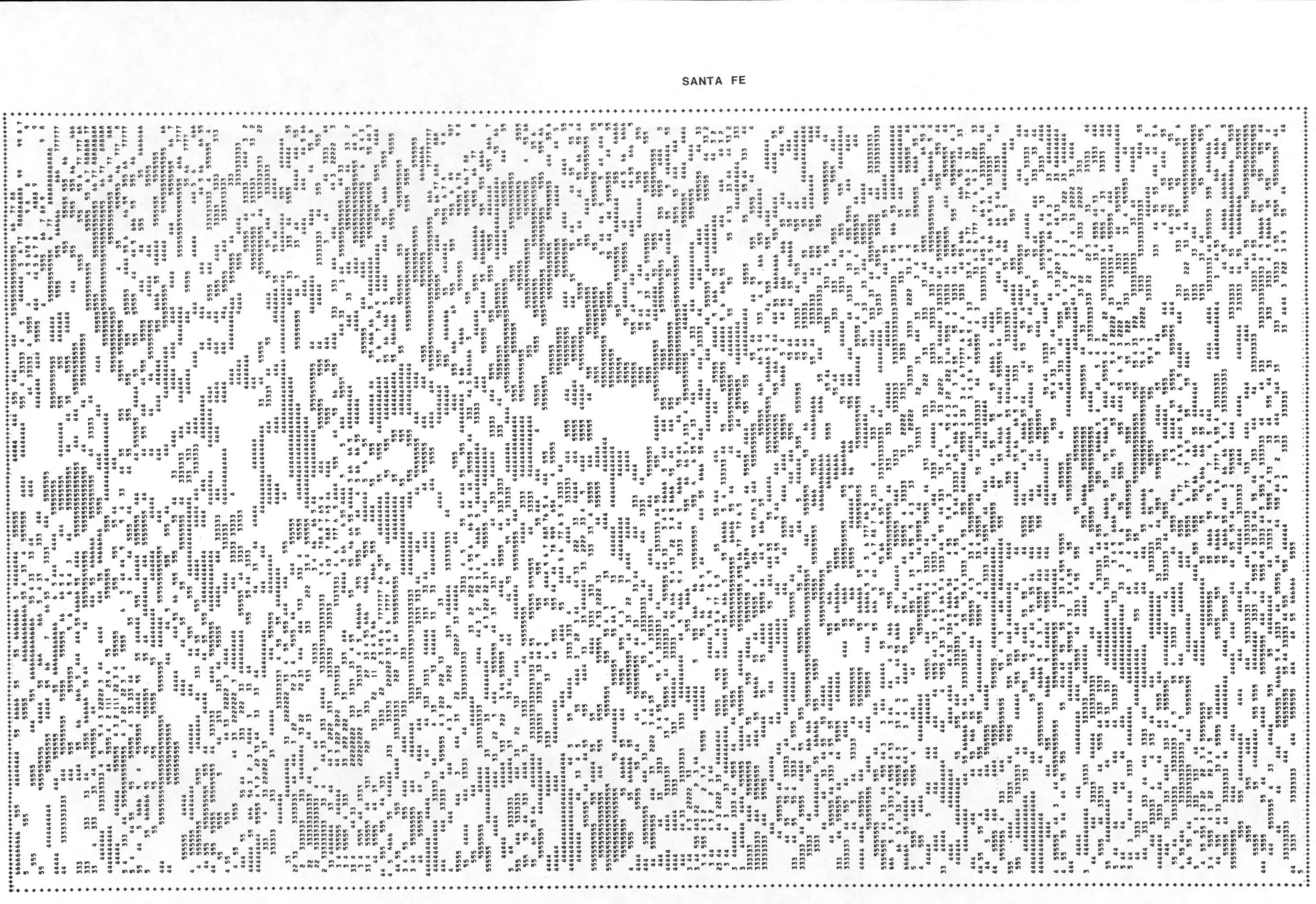
APPENDIX F - Psuedo Contour Maps

SANTA FE



Potassium Pseudo-Contour Map - Santa Fe Quadrangle

SANTA FE



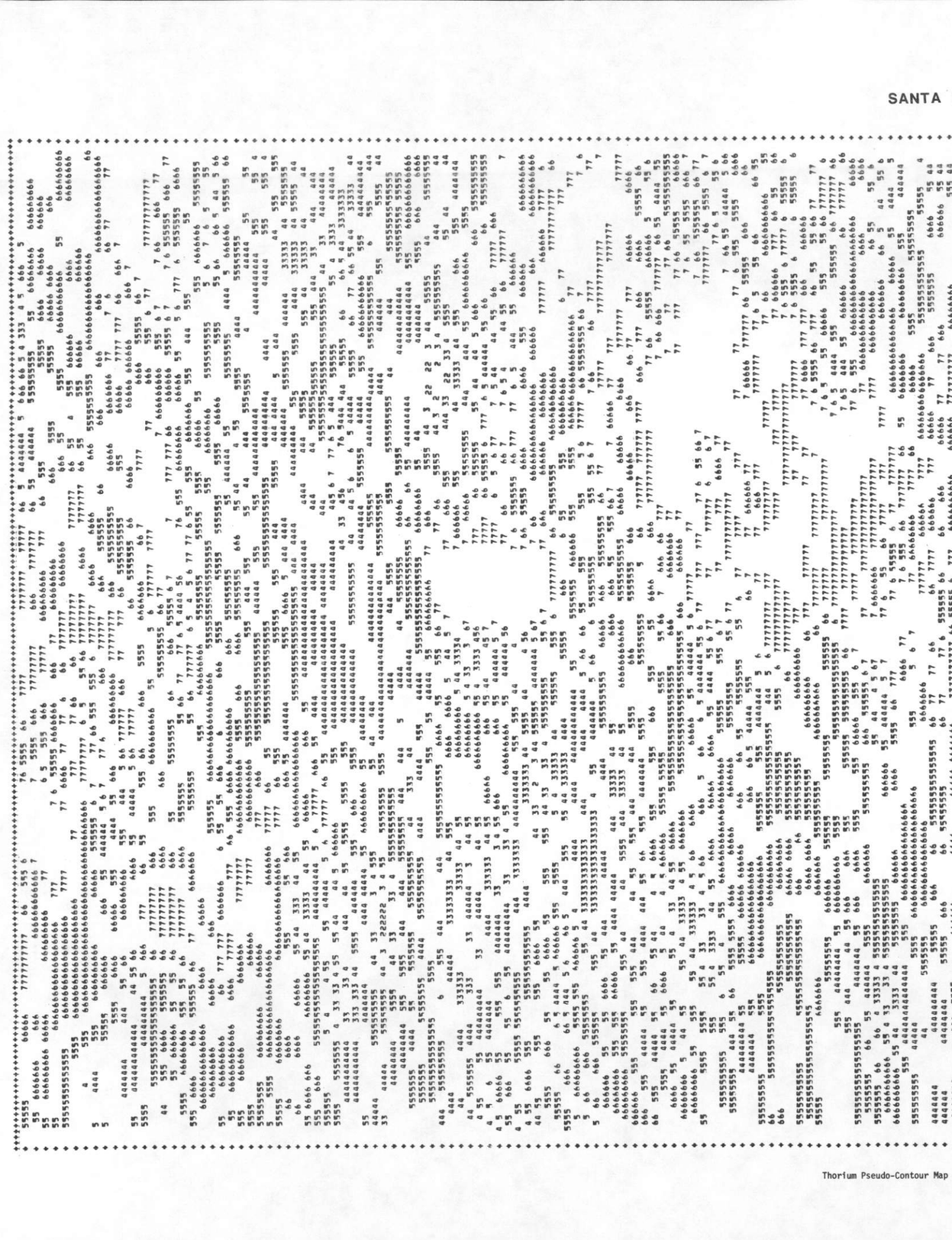
Uranium Pseudo-Contour Map - Santa Fe Quadrangle

EXPLANATION

PRINT CHARACTER	VALUE		
0	LE	0	2.5
1	2.5	5.0	7.5
2	5.0	7.5	10.0
3	7.5	10.0	12.5
4	10.0	12.5	15.0
5	12.5	15.0	17.5
6	15.0	17.5	20.0
7	17.5	20.0	22.5
8	20.0	22.5	25.0
9	22.5	25.0	27.5
	25.0	27.5	30.0
	27.5	30.0	32.5
	30.0	32.5	35.0
	32.5	35.0	37.5
	35.0	37.5	40.0
	37.5	40.0	42.5
	40.0	42.5	45.0
	42.5	GT	45.0

SCALE IN COUNT PER SECONDS

SANTA FE



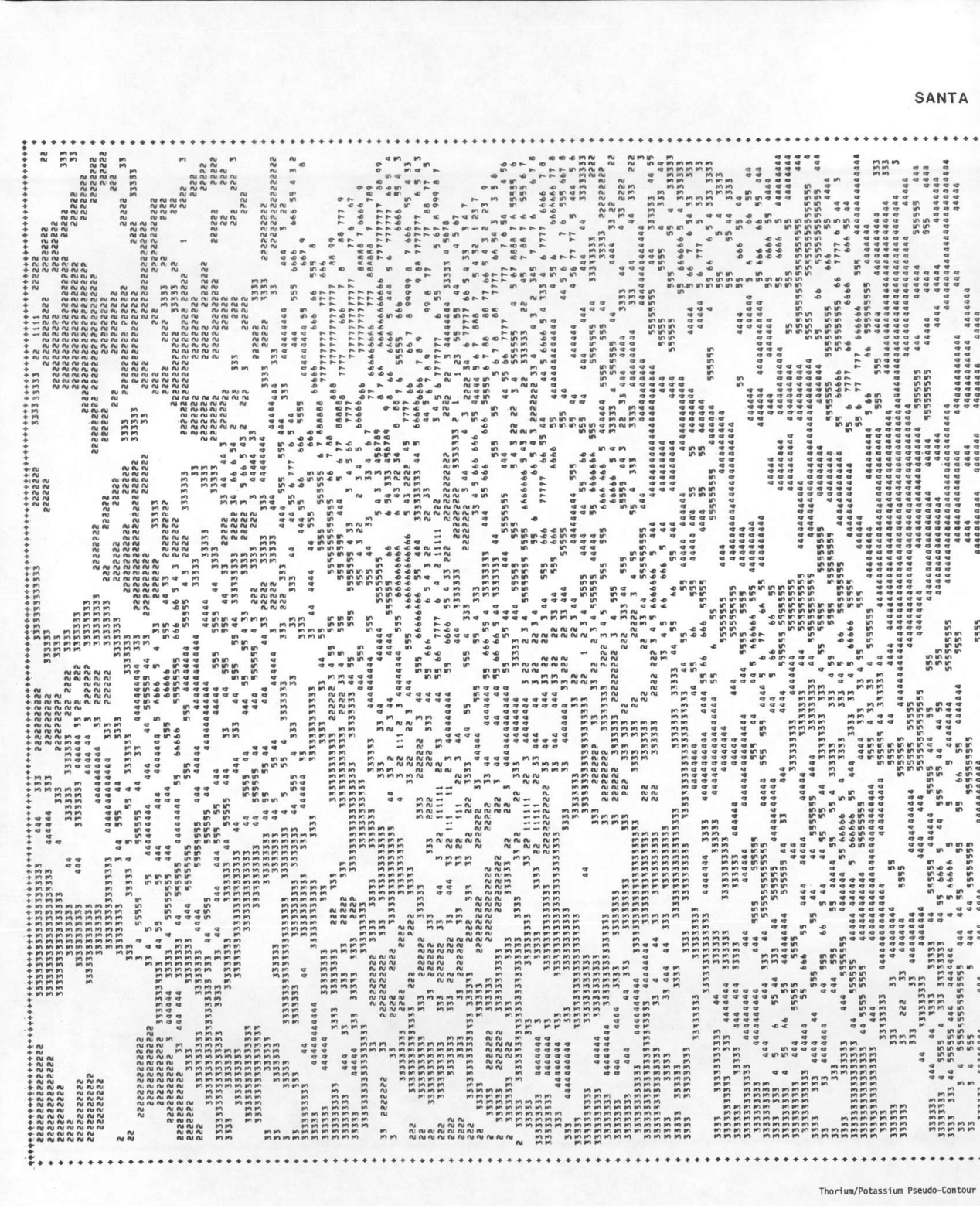
Thorium Pseudo-Contour Map - Santa Fe Quadrangle

EXPLANATION

PRINT CHARACTER	VALUE	
0	LE	5.0
1	5.0	10.0
2	10.0	15.0
3	15.0	20.0
4	20.0	25.0
5	25.0	30.0
6	30.0	35.0
7	35.0	40.0
8	40.0	45.0
9	45.0	50.0
	50.0	55.0
	55.0	60.0
	60.0	65.0
	65.0	70.0
	70.0	400035.0
8	400035.0	800000.0
	800000.0	400045.0
9	400045.0	90.0
	GT	90.0

SCALE IN COUNT PER SECONDS

SANTA FE

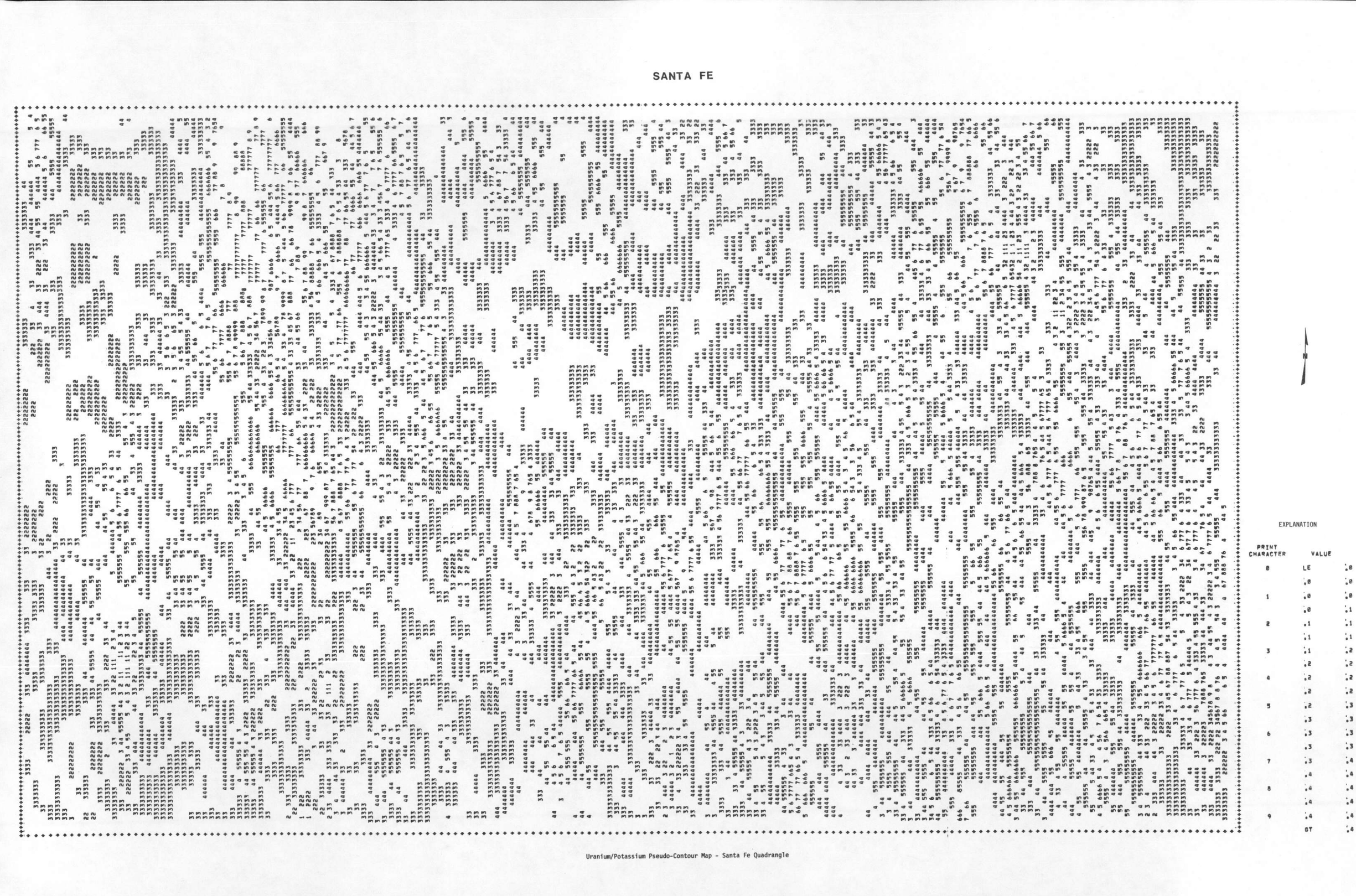


Thorium/Potassium Pseudo-Contour Map - Santa Fe Quadrangle

EXPLANATION

PRINT CHARACTER	VALUE
0	LE 1.1
1	1.1
2	1.2
3	1.3
4	1.4
5	1.5
6	1.6
7	1.7
8	1.8
9	1.9
	GT 1.9

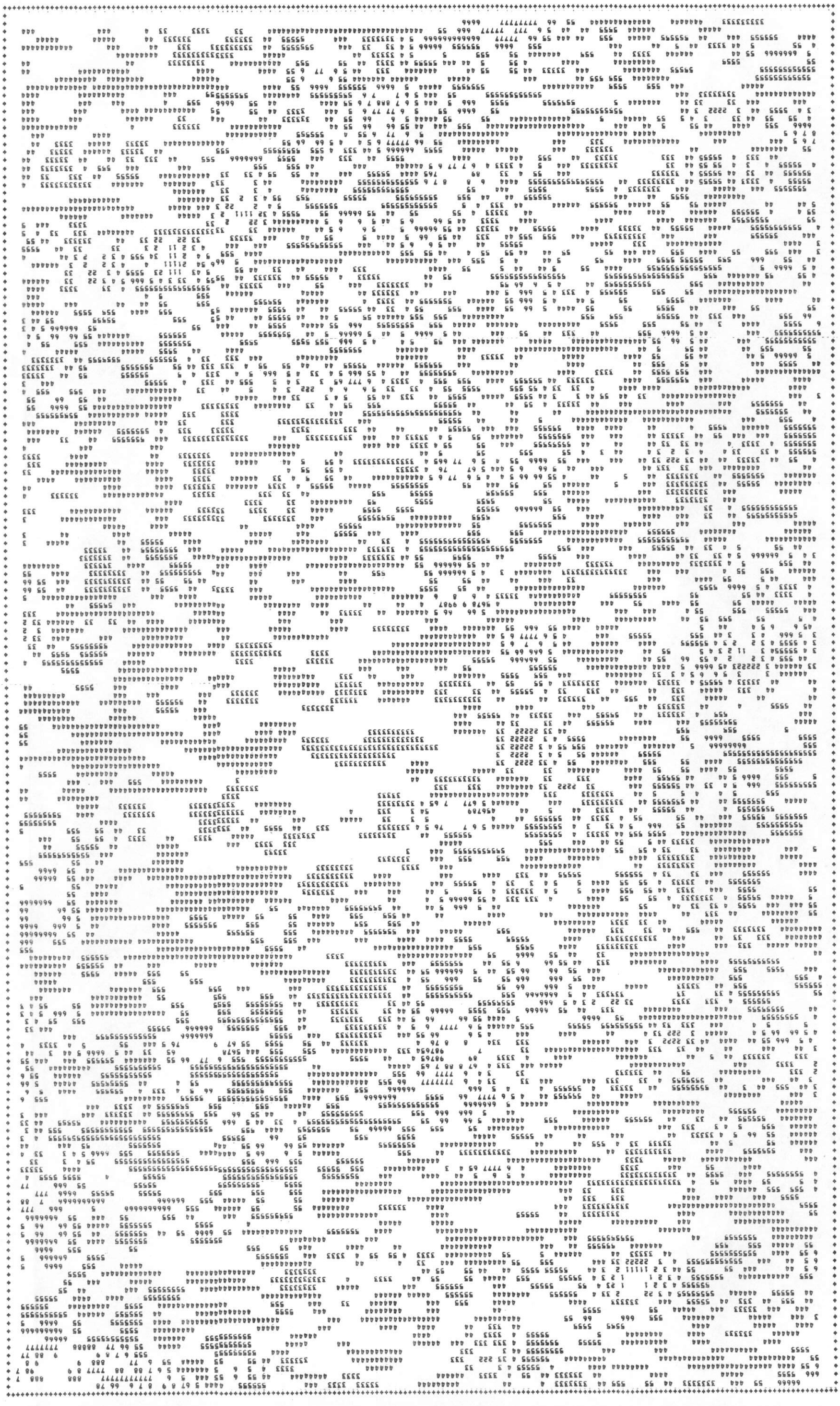
SANTA FE



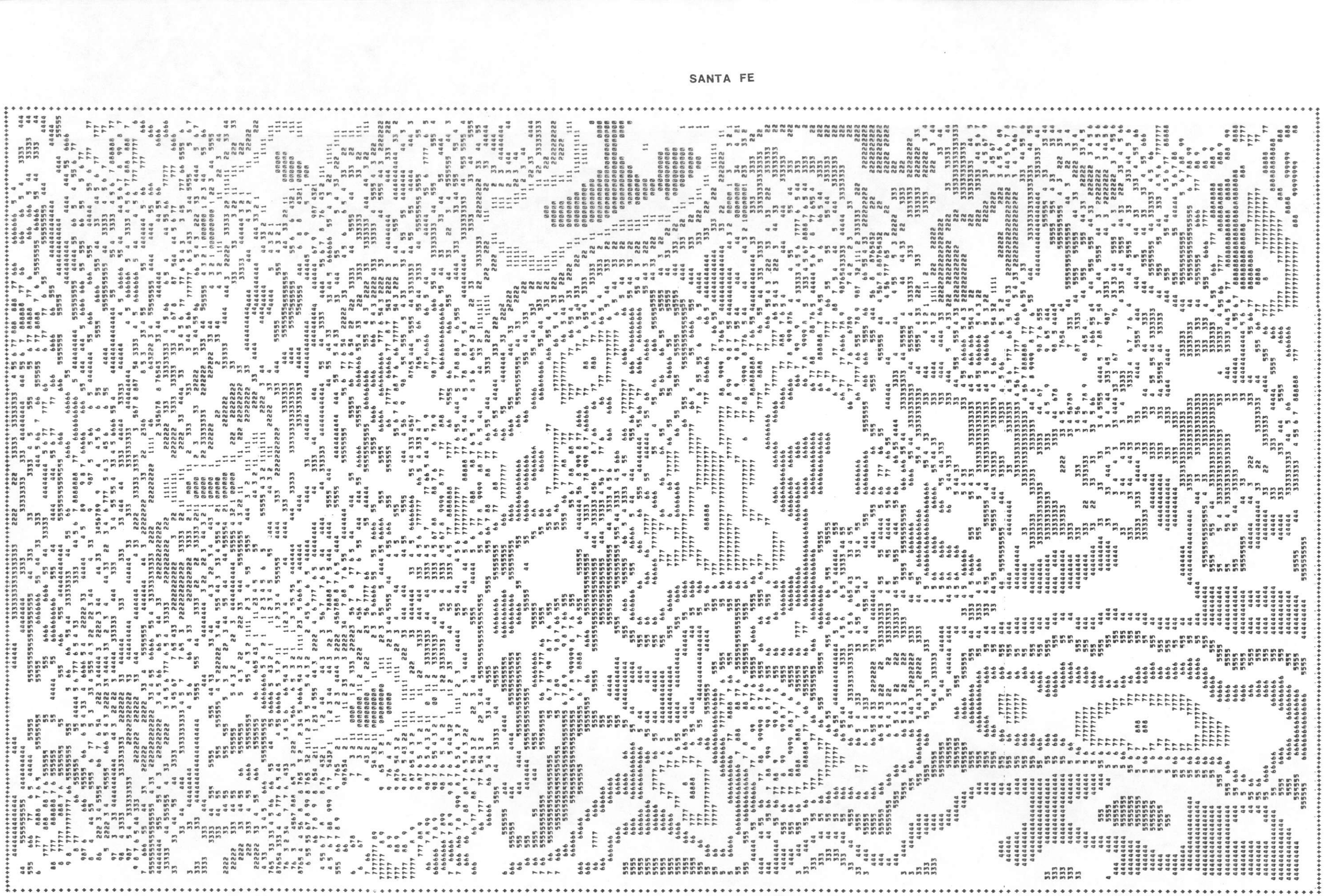
Uranium/Potassium Pseudo-Contour Map - Santa Fe Quadrangle

EXPLANATION

PRINT CHARACTER	VALUE
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
LE	LE
GT	GT


SANTA FE
Uranium/Thorium Pseudo-Contour Map - Santa Fe Quadrangle
EXPLANATION
PRINT CHARACTER
VALUE
LE
GT

SANTA FE



Residual Magnetic Psuedo-Contour Map - Santa Fe Quadrangle