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National Uranium Resource Evaluation

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY OF PORTIONS OF NEW MEXICO, ARIZONA AND TEXAS

FINAL REPORT

VOLUME II

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

CARSON HELICOPTERS, INC.

GEOSCIENCE DIVISION 32-H Blooming Glen Rd. Perkasie, Penna. 18944

September 1981

PREPARED FOR U.S. DEPARTMENT OF ENERGY
Grand Junction Office, Colorado

DISCLAIMER

This report is a result of work performed by Carson Helicopters, Inc. through a Bendix Field Engineering Corporation Subcontract, as part of the National Uranium Resource Evaluation. NURE is a program of the U.S. Department of Energy's Grand Junction, Colorado, Office to acquire and compile geologic and other information with which to assess the magnitude and distribution of uranium resources and to determine areas favorable for the occurrence of uranium in the United States.

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Volume 2E
Holbrook Quadrangle

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PREPARED FOR U. S. DEPARTMENT OF ENERGY
GRAND JUNCTION OFFICE, COLORADO
UNDER CONTRACT NO. DE-AC13-76GJ01664
AND BENDIX FIELD ENGINEERING CORPORATION
SUBCONTRACT NO. 79-350S

ABSTRACT

The results of a high-sensitivity, aerial gamma-ray spectrometer and magnetometer survey of the Holbrook two degree quadrangle, Arizona are presented. Instrumentation and methods are described in Volume 1 of this final report. The work was done by Carson Helicopters, Inc., and Carson Helicopters was assisted in the interpretation by International Exploration, Inc. The work was performed for the U. S. Department of Energy--National Uranium Resource Evaluation (NURE) program.

Analysis of this radiometric data yielded 260 statistically significant eU anomalies. Of this number, forty-four were considered to be of sufficient strength to warrant further investigation. These preferred anomalies are separated into groups having some geologic aspect in common.

TABLE OF CONTENTS

1.0 GEOLOGY AND RADIOACTIVE MINERAL DEPOSITS

1.1 GENERAL STATEMENT

The Holbrook 1^{o} x 2^{o} Quadrangle is located in central Arizona. This region contains two physiographic provinces, the Colorado Plateau in the north, and the Mexican Highlands to the south.

1.2 GEOLOGY

The Holbrook area has been affected by two orogenies, the Nevadian orogeny and the Laramide orogeny. The Nevadian orogeny occurred during the Triassic and Jurassic periods. During this orogeny, the Paleozoic and PreCambrian rocks were folded and intruded, producing granitic stocks and batholiths. This episode was followed by extensive erosion. In the early Tertiary period the Laramide orogeny occurred. This orogeny, characterized by uplifts and attendant folding and thrusting in the mountain region, was then followed by intrusion of granitic stocks. The thrusting brought the Precambrian and Paleozoic rocks on top of the Eocene rocks. Extensive volcanic activity continued from the mid-Tertiary period into recent time.

1.3 STRUCTURE

Throughout the mountain region there are high-angle faults that offset the bedrock. The majority of these faults are Laramide in age and have a northeastward trend. Some of the faults, however, pre- and post-date the Laramide orogeny. These faults trend in all directions.

1.4 RADIOACTIVE MINERALS

Ore-bearing fissures trending northeastward are found throughout the mountain area. This is due to the mineralization of the magmas of the stocks that intruded the area. Another group of mineral deposits is associated with the Tertiary lavas. These lavas were high in acid which helped to create a reducing environment for the minerals.

The ore deposits are in the form of fault veins that cut the lavas. The veins are generally crustified, shallow in depth, and contain Adularia. Gold is the chief ore mineral (Eardley, 1936).

Some uranium or thorium precipitation is expected in an acid reducing environment.

2.0 DATA INTERPRETATION

2.1 GENERAL

The central portion of Arizona, which encompasses the Holbrook Quadrangle, is well described by Eardley. According to Eardley:

> "The Mountain Region forms a belt 60 to 100 miles wide and contains most of the large ore deposits of the state (Arizona). It is characterized by many short ranges nearly parallel to each other and to the margin of the Plateau. The individual ranges are separated by valleys deeply filled with fluviatile and lacustrine deposits which are now generally being eroded to widespread pediments capped by veneers of gravel.
>
> The southern margin of the Colorado Plateau is usually taken as the erosional escarpment of the Kaibab limestone and Coconino sandstone, called Mogollon Rim, but lower Paleozoic beds extend southward in certain summit areas well within the Mountain Region. The Mogollon Rim is at an altitude of 8,000 feet above sea level or slightly less."

The quadrangle also contains intrusions, in the form of dykes and sills, and areas of extruded andesites and rhyolites.

2.2 COMMENTARY ON RADIOMETRIC PROFILES

The thorium responses in the Holbrook Quadrangle are quite active. The stacked profiles show large fluctuations in the thorium response on each line of the quadrangle. These fluctuations are most likely due to the presence of thorium in faults and fractures in the survey area.

On lines 1 through 4 there seems to be a discrepancy in the data. The lines are separated into two segments that were flown at different times. The eastern portions of the four lines are anomalously very high. This may be the result of a combination of factors. Western portions of these lines are overlain by considerable groundcover, such as trees and leafhumic, that absorbs much of the radiation. There is, at present, no standard method of correction for this attenuation. The second factor contributing to the discrepancy is due to the different count rates on the days that the lines were flown. On December 28, 1979, the test line flown each day, and the eastern portion of the survey lines produced an overall count rate of 910,152 and 915,181 cps. When the west side of the survey was flown on April 6, 1980, April 10, 1980 and April 13, 1980, the test lines count rates were 839,303, 867,948 and 844,843 cps respectively. Many reasons could be suggested to explain this discrepancy, but the most likely is a change in weather conditions. The statistical evaluation of the data may intensify these discrepancies even further.

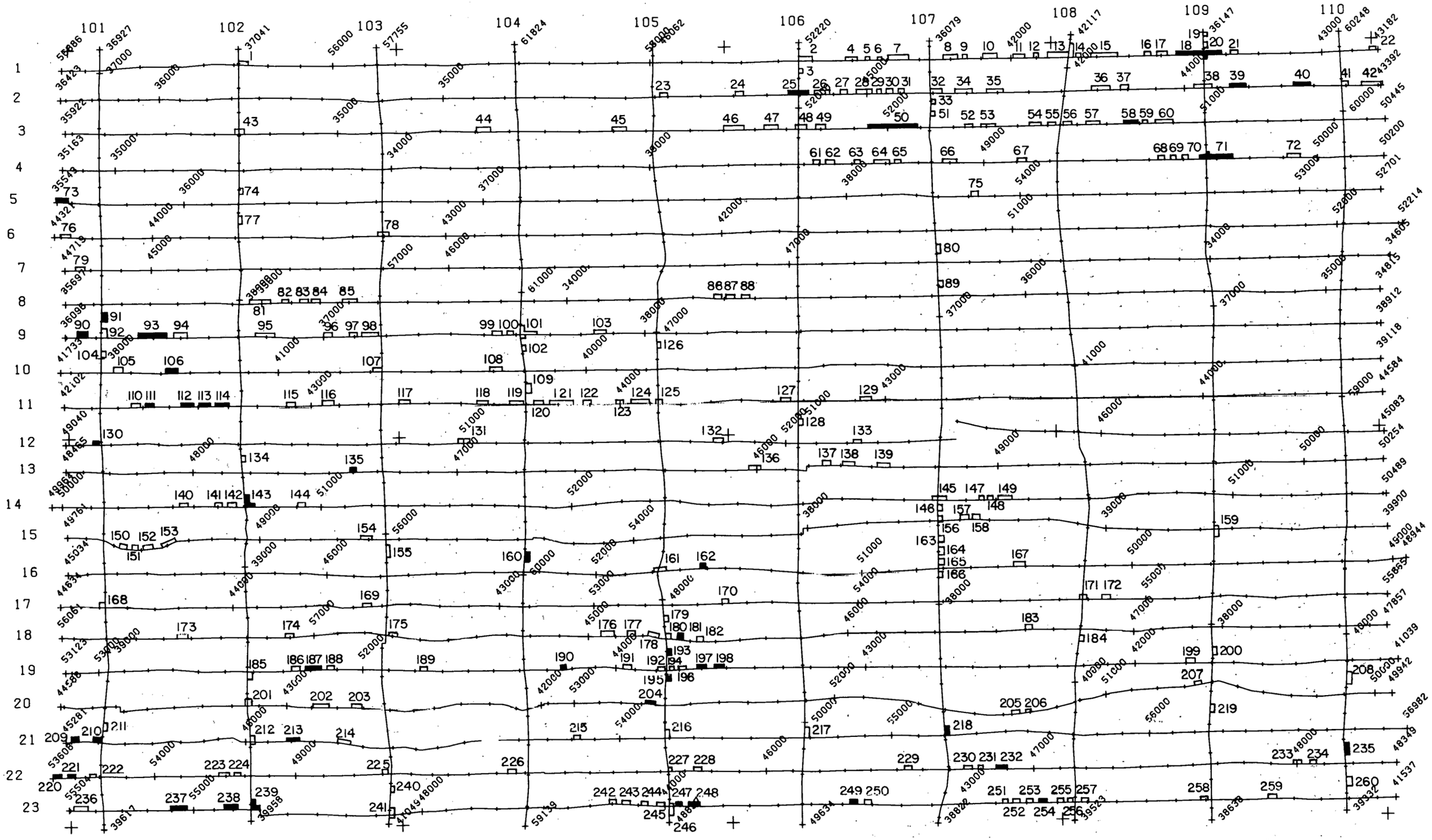
Concentration in terms of ppm, eU, eTh and K are derived by scaling counts in the U, Th and K channels by factors determined at D.O.E. calibration facilities and do not necessarily represent actual concentrations in other areas. In the following section, concentrations of Uranium are sometimes described in terms of standard deviation. Although this may not be mathematically correct, it does represent the degree to which data is anomalous taking into account its associated geologic units.

2.3 URANIUM HISTOGRAMS

High eU occurrences are concentrated in four rock units: pЄgr; pЄr; QTl; and Ti. These units contain between 2.2 ppm and 3.1 ppm uranium. The "Ti" uranium histogram is bimodal, with the mean of 2.4 occurring as the center point between the two modes. This bimodal distribution may suggest the presence of a uranium-rich component within these (Ti) rocks. Rock units pЄgr and pЄr have a mean of 2.6 and 3.1 uranium and 10.0 and 10.4 thorium, respectively. Both of these units have a sizeable number of records (1118 and 228), indicating that the units are quite extensive in the survey area.

2.4 URANIUM ANOMALY MAPS - SELECTED AND PREFERRED ANOMALIES

A total of 260 statistically significant eU anomalies were found in the Holbrook Quadrangle (See Table 3). Of the 260 significant eU anomalies, 44 have been selected as preferred anomalies. These preferred anomalies show a relative enrichment of eU over eTh and K, and exhibit uranium concentration levels of over 3 standard deviation units relative to their individual lithologic units. These preferred anomalies occur primarily in quaternary and Tertiary volcanics and in Tertiary through Devonian sediments.



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LEGEND

STATISTICALLY SIGNIFICANT eU ANOMALIES

PREFERRED ANOMALIES

FIGURE 1 HOLBROOK QUADRANGLE

TABLE 1

DESCRIPTION OF MAP UNITS - HOLBROOK

Q	Surficial deposits. (QUATERNARY)
QTl	Lake bed deposits. (QUATERNARY, TERTIARY)
QTu	Undivided sediments. (QUATERNARY, TERTIARY)
Qb	Basalt. (QUATERNARY, TERTIARY)
QTra	Rhyolite and andesite. (QUATERNARY, TERTIARY)
QTv	Volcanics (QUATERNARY, TERTIARY)

TERTIARY

Tb	Basalt.
Ts	Spring deposits.
Td	Diabase.
Tgr	Granite.
Ta	Andesite.
Tbu	Upper member of BIDAHOCHI formation.
Tbl	Lower member of BIDAHOCHI formation.
Tbd	BIDAHOCHI formation.
Ti	Intrusives, Td, Tgr, Ta.
Tu	Undivided TERTIARY.
Kmv	MESAVERDE group. (CRETACEOUS)
Kmc	MANCOS sandstone. (CRETACEOUS)
Kd	DAKOTA sandstone. (CRETACEOUS)
Kmd	MANCOS and DAKOTA (CRETACEOUS) sandstones, undivided.

TABLE 1

Ku	CRETACEOUS, undivided.
Trc	CHINLE formation. (TRIASSIC)
Trs	SHINARUMP conglomerate. (TRIASSIC)
Trm	MOENKOPI formation. (TRIASSIC)
Tru	TRIASSIC undivided.
Pk	KAIBAB formation. (PERMIAN)
Pc	CONCONINO sandstone. (PERMIAN)
PKco	PERMIAN, undivided.
PPs	SUPAI formation. (PERMO-PENNSYLVANIAN)
Pn	NACO formation. (PENNSYLVANIAN)
PPsn	SUPAI, NACO formations undivided.
Mr	REDWALL limestone. (MISSISSIPPIAN)
Dm	MARTIN formation. (DEVONIAN)
MDu	REDWALL and MARTIN, undivided.
PPMDu	SUPAI, NACO, REDWALL, MARTIN, undivided.
Ꞓts	TAPEATS sandstone. (CAMBRIAN)
ꞒDu	CAMBRIAN, DEVONIAN, undivided.

PRE-CAMBRIAN

pꞒt	TROY quartzite.
pꞒa	APACHE group, metasediments.
pꞒgr	Granite.

TABLE 1

pЄr	Rhyolite.
pЄmg	MAZATZAL quartzite.
pЄsch	Schist.
pЄm	Metamorphosed sediments and volcanics.
pЄu	PRE-CAMBRIAN, undivided.
MDЄpЄu	PENNSYLVANIAN, MISSISSIPPIAN, DEVONIAN, CAMBRIAN, PRE-CAMBRIAN, undivided.

TABLE 2

COMPARISON OF GEOLOGIC MAP SYMBOLS WITH COMPUTER DESIGNATIONS

Computer Numeric Code	Computer Letter Code	Map Code
101	Q	Q
102	QTL	QTl
103	QTU	QTu
104	QB	Qb
105	QTRA	QTra
106	QTV	QTv
107	TB	Tb
108	TS	Ts
109	TD	Td
110	TGR	Tgr
111	TA	Ta
112	TI	Ti
113	TBU	Tbu
114	TBL	Tbl
115	TBD	Tbd
116	TU	Tu
201	KMV	Kmv
202	KMC	Kmc
203	KD	Kd
204	KMD	Kmd
205	KU	Ku
206	TRC	Trc
207	TRS	Trs
208	TRM	Trm
209	TRU	Tru
301	PK	Pk
302	PC	Pc
303	PKCO	PKco
304	PPS	PPs
305	Pn	Pn
306	PPSN	PPsn
307	MR	Mr
308	DM	Dm
309	MDU	MDu
310	PPMDU	PPMDu
311	CTS	Cts
312	CDU	CDu
313	PCT	pЄt
314	PCA	pЄa
315	PCGR	pЄgr
316	PCR	pЄr
317	PCMG	pЄmg
318	PCSCH	pЄsch
319	PCM	pЄm
320	PCU	pЄu
321	MDCPC	MDЄpЄu
322	---	PnMD

Preferred Anomalies

Quaternary alluvium	21
Quaternary and Tertiary Volcanics	18
Intrusives	7
PreCambrian meta-volcanics and sediments	4
PreCambrian volcanics	2
Tertiary through Triassic sediments	10
Permian through Devonian sediments	10

These preferred anomalies appear to have high potentials indicating true uranium enrichment, and thus warrant additional investigation. This selection has taken into account the statistical adequacy of the sampling. Anomalies are grouped together according to common geologic environment; therefore, some are mentioned in more then one group.

Anomalies 18, 25, 39, 40, 50, 58 and 71

These anomalies are located over rock unit Tru, which is composed of shale, sandstone, limestone, gypsum and conglomerate. This rock unit is divided into three formations: The Chinle, Shinarump; and Moentiopi. The Chinle Formation contains a petrified forest member. As wood goes through petrification, minerals replace wood tissue in a reducing environment which is ideal for the mineralization of uranium and thorium. Siltstone, shale, sandstone, limestone and conglomerate can all contain radioactive minerals.

Anomalies 73, 90, 91, 93 and 106

These anomalies are located over geologic unit QTu, which is composed of undivided Quaternary sediments. A large portion of these sediments appear to have been derived from surrounding volcanics. These volcanics, composed primarily of andesite and rhyolite, usually contain moderate to high concentrations of radioactive minerals. It thus seems likely that uranium mineralization could occur in certain portions of this undivided sedimentary unit. In addition, two anomalies (90 and 91) lie over portions of geologic unit Q (Quaternary surficial deposits). These surficial deposits are probably composed of detritus from geologic unit QTu and other surrounding rock units. Anomaly 73 occurs over alluvium, and lies approximately 4.5 miles northeast of a known uranium prospect (Fairview Group Prospect). This prospect contains veins dominantly of thorium and rare-earths. However, no commercial quantities have been produced from the Fairview Group prospect. Anomaly 73 may be related to the uranium-enriched zone associated with this prospect. Anomaly 76, while not a preferred anomaly, may also have a casual relationship with the Fairview Group prospect. Anomaly 90 occurs over the axis of a small eastward plunging anticline. Anomaly 91 lies near 90, and the two may be related. A rather significant anomaly (93), with eU values of 8.6 and 7.9 standard deviation units, occurs in an area that has been faulted. Transportation of uranium in aqueous solutions could occur along these fault zones. Anomaly 106 is apparently caused by the erosional exposure of a uranium-rich horizon that occurs in the undivided Quaternary sediments. This anoamly, with eU values of 7.5 to 14.8 standard deviation units, represents an area of potential uranium mineralization.

Anomalies 25, 50, 71, and 135

These anomalies are located over geologic unit PKco, a Permian sediment composed of the Cocomino sandstone and the Kaibab (limestone and shale) formation. Several of these anomalies are continuous across faults or alignments and portions of geologic unit Tru (Triassic undivided). Anomaly 50 may be partially due to the erosional exposure, along Clear Creek, of a portion of Permian sediments that contain moderate concentrations of radioactive minerals. Anomaly 135 occurs over Permian sediments and Quaternary volcanics (QTv). The proximal relationship of the volcanics and the Permian sediments indicates a good potential for the deposition of uranium minerals in this vicinity. Migrating hydrothermal solutions could be concentrated in these sediments by either the changes in permeability and porosity of the sandstone and shale, or chemical reaction of these solutions with carbonaceous material in the shales and limestone. In addition, anomaly 135 may be enhanced by an outcropping of two similar units in Calf Pen Canyon. With the exception of Anomaly 135, all of the above anomalies occur over regions of sparce vegetation and little groundcover. Due to the nebulous description of geologic unit Tru (Triassic undivided rocks), it is difficult to determine if the presence of these Triassic rocks, or the detritus derived from these rocks, could serve as an agent to enhance the amplitude of Anomalies 25 and 71.

Anomalies 143, 198, 247 and 248

These anomalies are located over or near two rock units, Td (Anomalies 198 and 248) and Ti (Anomaly 143). Td is a Tertiary diabase and Ti refers to Tertiary intrusives. Anomaly 143 occurs largely over Tertiary intrusives, with portions lying over geologic unit QTv, Quaternary volcanics. This anomaly also crosses two fault zones. These faults are likely places for the migration of hydrothermal fluids rich in radioactive minerals. In addition to Tertiary diabase, Anomaly 198 also crosses undivided Quaternary sediments (QTv) and Precambrian Metamorphosed sediments and volcanics. The undivided Quaternary sediments provide the most likely place for uranium and thorium mineralization. Also occurring over Tertiary diabase is Anomaly 248. However, the greater portion of this anomaly lies over Quaternary volcanics (QTv). This anomaly also crosses two faults which occur in the Quaternary volcanics. Although it does not occur directly over geologic unit Td, Anomaly 247 is probably related to 248. Anomaly 247 lies over the same Quaternary volcanics that are associated with anomaly 248. These two anomalies lie approximately 4.5 miles to the northeast of prospects (Black Bush group, Definitely group, Donna Lee claims, Little Joe claims, Rainbow deposit, and Suckerite group) and several mines, (Blevens Canyon group, Hope mine, Lucky Stop, Melinda-Lost Dos, Red Bluff mine, Sue claims, and Workman deposit). Two of these mines, Hope mine and Red Bluff mine, have produced 1,000 tons or more of ore. These deposits and claims are associated with base-metal sulfide veins and veins dominantly of uranium minerals, with other amounts of metallic minerals. It seems possible that these deposits are associated with the same, or similar, geologic units that occur in association with Anomalies 247 and 248.

Anomalies 238 and 239

These anomalies occur in association with Quaternary lakebed deposits (Qtl), surficial deposits (Q), Quaternary volcanics (QTv) and Precambrian granite (pEgr). The occurence of these anomalies in conjunction with lakebed deposits surrounding volcanics presents a good environment for the mineralization of radioactive minerals. In addition, these anomalies occur over a mine. We were not able to determine if the mine is, at present, active, or the nature of the mining operation. However, the mine occurs in the area of the Lucky Find Group prospect. This prospect is reported to be associated with veins primarily of uranium minerals, with minor amounts of other metallic minerals. No production has been reported in conjunction with this report.

Anomaly 160

Anomaly 160 occurs over geologic unit PnMD, a Pennsylvanian through Devonian undivided unit. This geologic unit includes the Naco fossiliferous limestone, the Redwall limestone, and the Martin formation (sandstone). The anomaly also crosses a fault. This fault produced the Little Diamond Rim, which outcrops in the vicinity of Anomaly 160. The existence of this topographic feature may enhance the amplitude of Anomaly 160 by the exposure of a horizon with moderate to high concentrations of uranium-thorium minerals.

Anomalies 162, 218, 232, and 254

These anomalies are located over geologic unit PPsn, a Permo-Pennsylvanian undivided unit which includes the Supai formation (sandstone, limestone and shale) and the Naco formation (fossiliferous limestone). It is interesting to note that three of the above anomalies (162, 232, and 254) occur over structural features (anticlines and synclines). Anomaly 162 occurs over the axis of a northward plunging syncline. This anomaly lies over what appears to be the tallus slope of Promontory Butte, a topographic feature with a local relief of approximately 600 to 800 feet. Anomaly 162 also lies between two areas of geologic unit Tu (Tertiary undivided). Due to the rather vague description of Tu, it is not possible to determine whether the presence of this geologic unit enhances or attenuates the amplitude of Anomaly 162. This anomaly has concentrations of uranium as high as 10.5 standard deviation units. Anomaly 218 occurs east of a highly faulted region, and approximately seven miles northeast of a uranium prospect (Shepp 2 claim). This prospect is described to consist of veins dominantly of uranium minerals with minor amounts of metallic minerals. The Shepp 2 claim appears to be associated with one of the many faults that occur in the region to the west of anomaly 218. This prospect also lies in the general vicinity of a small anomaly (229). Anomaly 229, however, was not statistically significant (possibly due to its location, which is somewhat removed from the flight line) to be considered a preferred anomaly. Anomaly 232 lies

approximately 5.5 miles to the southeast of anomaly 218, over the axis of a north to northeast plunging syncline. Like Anomaly 218, 232 occurs near an area mapped at Triassic undivided rocks. This anomalous area lies east of a highly faulted area. Anomaly 254 occurs 5 miles to the southeast of Anomaly 232, over the axis of a north to northeast plunging anticline. Anomaly 232 has quite high concentrations of uranium, approximately 7.2 to 7.4 standard deviation units. Like the two previously mentioned anomalies, Anomaly 254 lies to the east of a faulted region. These three anomalies appear to form a linear feature trending northwest-southeast. Also, these anomalies all occur at approximately the same topographic level-about 6200 feet above sea level. This suggests that perhaps all three anomalies are associated with a particular horizon in the Permo-Pennsylvanian unit of sedimentary rocks. This horizon, which appears on the western flank of Grasshopper Butte, seems to contain high concentrations of uranium minerals and may be a possible uranium prospect.

Anomalies 181, 190, 210 and 238

These anomalies are located over Precambrian granite (P€gr), and may be associated with fault zones in these granites. Anomaly 181 crosses a fault or fracture in the Precambrian granite, and terminates in an area mapped as spring deposits (Ts). The existence of these spring deposits may be indicative of a region of mineralization resulting from the precipitation of elements from hydrothermal solutions. The area to the west of Anomaly 181 results in several small anomalous regions, which may be related to the many faults which occur in this area. Anomaly 190 occurs exclusively in the Precambrian granite, and is also related to a faulted region. Anomaly 210 lies directly over, and parallel to the strike of a fault which forms the contact zone with the Quaternary volcanics (QTv). The anomalous regions mentioned above occur exclusively over faults in the granites and probably represent veins of uranium minerals deposited in the fault planes. Anomaly 238 occurs over a portion of the Precambrian granite and Quaternary lakebed deposits, and has been discussed in a previous section (discussion of Anomalies 238 & 239).

Anomalies 193 and 195

Anomalies 193 and 195 occur on the flanks of Lost Camp Mountain, over Tertiary undivided rocks (Tu) and Precambrian rhyolite (P€R). The major portions of these anomalies occur in conjunction with the Tertiary undivided rocks. Anomaly 193 lies over several faults which control the course of Tonto Creek. The amplitude of these two anomalies may be enhanced by the rather diverse lithology and widespread occurrence of the Tertiary undivided unit. It seems plausable that the Tertiary undivided unit in this region is composed of components of Precambrian rhyolite, and thus would have a higher concentration of radioactive minerals than Tertiary undivided rocks occurring elsewhere in the survey area.

Anomalies 111, 112, 113, and 114

These anomalies are associated with Quaternary undivided sediments (QTu) and Quaternary surficial deposits (Q) that occur in an area surrounded by Quaternary volcanics. These sediments and surficial deposits, which lie in the Verde Valley are probably composed primarily of detritus derived from these volcanics that outcrop in the surrounding hills and mountains. Anomaly 111 occurs in the vicinity of a quarry. This quarry appears to be extracting building stone which is composed of Precambrian granite (P€gr). The exposure of these granitic rocks would serve to enhance the amplitude of this anomaly. Anomalies 112 and 113 both occur over faults. Anomaly 114 lies over Quaternary undivided sediments and Quaternary volcanics. It appears that the lithologic composition (i.e. derived from volcanics) of these sediments and surficial deposits assists in generating anomalously high standard deviation values in Verde Valley.

Anomalies 130, 187, 209, 213, 220, 221, 237, and 247

All of these anomalies are associated with Quaternary volcanics (QTv). Anomaly 130 lies over two faults, approximately two miles northwest of a mine. We were not able to determine the nature of this mining operation from existing data. Anomalies 209 and 213, which are of moderate amplitude, occur in areas near Precambrian granites (P€gr). Anomaly 213 lies over a fault in the vicinity of Sycamore Creek. It is possible that detritus derived from Precambrian granites was transported down Sycamore Creek and deposited as alluvium near this anomaly.

Anomalies 220 and 221, both of which lie on traverse 22, occur outside of the survey area. Both of these anomalies were statistically evaluated as Quaternary volcanics (QTv). Since these anomalies cannot be directly correlated with the geologic map, and were assumed to occur over geologic unit QTv, they should be considered somewhat suspicious. Anomaly 237 lies approximately 1/2 mile north of Red Rover mine, and approximately five miles west of the Lucky Find group claim. The Lucky Find group claim has been described in a previous section (Discussion of Anomalies 238 and 239). We were not able to ascertain the nature of the mining operation at the Red Rover mine from current data. Anomaly 247, which also occurs over Quaternary volcanics is probably related to anomaly 248, and has been discussed in a previous section (Discussion of Anomalies 143, 198, 247, and 248).

Anomalies 197 and 204

Anomalies 197 and 204 occur in association with Precambrian metamorphosed sediments and volcanics (pεm). Both of these anomalies lie over faults, which may indicate a possible relationship of faults and fractures with the mineralization of uranium minerals. These anomalies may be related to Anomalies 193, 195, and 198, which were discussed in a previous section (Discussion of Anomalies 193 and 195 and Discussion of Anomalies 143, 198, 247, and 248).

Anomaly 235

This anomaly occurs over Cretaceous Undivided (Ku), with a minor portion of the anomaly occuring over Permian undivided rocks (PKco). Anomaly 235 lies over a fault, with the southern half of the anomaly occuring on the uplifted portion of this structural feature. The southern portion of this anomaly also lies near the axis of a south to southeast plunging anticline. This anomaly is probably the result of uranium-rich minerals occuring along the fault plane, or the exposure of a uranium-rich horizon in the Cretaceous unit by the fault.

Anomaly 249

Anomaly 249 occurs over a small portion of Precambrian Undivided (pεu) that lies in a region that is bounded by two northeastward trending faults. This anomaly also occurs over the axis of a northeastward plunging anticline. Anomaly 249 appears to be related to the occurence of radioactive minerals concentrated within these structures.

2.5 CONCLUSIONS

Forty-four of the 260 anomalies which occur in the survey area have been classified as preferred, as indicated in Table 3. The possibility of the occurence of uranium prospects is based on the location of the anomaly with respect to geology, and structural, topographic, and cultural features.

The Colorado Plateau, which is included in a large portion of the survey area, is identified as a significant geologic feature associated with uranium deposits.

There are five general regions of uranium enrichment that occur in the survey area: the area between tielines 101 and 102 and between traverses 8 and 12; the area in the southwest portion of the survey area that included Anomalies 209, 210, 213, 237, 238 and 239; the region surrounding the intersection of tieline 105 and traverse 204 and the region to the south, including Anomalies 247 and 248; the rather extensive area that includes Anomalies 18, 25, 39, 40, 50, 58 and 71 in the northeast portion of the survey area; and the area in the southeast portion of the study area, including Anomalies 218, 232, 254 and possibly 235.

2.6 SUGGESTIONS FOR FURTHER WORK

The primary objective of this survey is to locate regions favorable for the occurence of uranium. The probability of encountering individual deposits in this type of survey is usually quite low. However, the areas mentioned in the preceding section (Conclusions) warrant further investigation. Further work can be considered in three general catagories:

a) Airborne Follow-Up
b) Ground Studies
c) Subsurface Studies

The airborne follow-up could be used to more accurately define certain areas in question, specifically, the northeastern portion of the survey area. This detailed survey could be used as a base for a ground reconnaissance and subsurface study. The two approaches outlined above would certainly lead to a drilling and subsurface logging program. A program to evaluate the radon gas content of both ground water and soil would be of great value.

TABLE 3 EQUIVALENT URANIUM ANOMALIES (NI 12-5)

Anom. No.	F.L. No.	Geo. Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/eTh 1	eU/eTh 2	eU/eTh 3	eU/K 1	eU/K 2	eU/K 3
1	102	PKco	1	-	1	-	-	-	-	-	-	1	-	-	-	1	-
2	2	PKco	5	-	-	4	-	-	4	1	-	-	-	-	-	-	-
3	106	PKco	3	1	-	1	3	-	-	2	2	-	-	-	-	-	-
4	1	Tru	-	3	4	-	-	-	5	2	-	-	4	3	4	-	-
5	1	Tru	4	-	-	-	-	-	-	-	-	-	1	3	1	1	-
6	1	Tru	1	2	-	-	-	-	2	1	-	2	1	-	-	-	-
7	1	Tru	5	6	3	2	-	-	6	4	1	5	7	-	4	1	-
8	1	Tru,Q	6	4	2	-	-	-	2	-	-	2	4	6	2	6	3
9	1	Tru	1	1	-	-	-	-	-	-	-	1	1	-	2	-	-
10	1	Q	4	3	-	2	-	-	-	-	-	2	1	-	6	-	-
11	1	Q	2	2	-	1	-	-	1	-	-	1	-	-	-	-	-
12	1	Tru	1	1	-	-	-	-	-	-	-	-	-	1	1	-	-
13	1& 108	Tru,Q	16	15	2	12	6	12	14	5	-	3	-	-	6	3	4
14	1	Tru,Q	3	2	-	4	-	-	2	-	-	1	-	-	2	-	-
15	1	Q	7	12		9	8	-	-	-	-	-	-	-	8	-	-
16	1	Tru,Q	1	2	-	-	-	-	-	-	-	2	-	-	1	1	-
17	1	Tru,Q	5	1	-	3	-	-	-	-	-	-	-	-	4	1	-
18*	1& 109	Tru,Q	12	13	6	18	6	7	1	-	-	5	1	-	10	11	8
19	109	Tru	-	3	-	-	-	3	-	-	-	-	-	-	1	2	-
20	109	Tru,Q	3	1	-	-	2	2	2	-	-	-	-	-	-	-	-
21	1	Q	4	2	-	-	-	-	-	-	-	2	-	-	3	1	-
22	1	Tru	5	-	-	2	-	-	-	-	-	2	-	-	4	-	-
23	2	PKco	2	2	-	-	-	-	-	-	-	-	2	1	1	2	-
24	2	PKco	2	1	-	-	-	-	2	-	-	1	-	-	1	-	-
25*	2	PKco,Tru	6	4	3	4	1	-	6	1	1	4	-	-	5	-	-
26	2	Tru	8	5	-	3	-	-	3	4	-	6	1	-	4	-	-
27	2	Tru	4	-	-	2	-	-	1	3	-	1	-	-	-	-	-

* Preferred Anomalies

TABLE 3 EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo. Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/eTh 1	eU/eTh 2	eU/eTh 3	eU/k 1	eU/k 2	eU/k 3
28	2	Tru	6	2	1	-	-	-	7	2	-	3	2	-	1	-	-
29	2	Tru	2	1	-	-	-	-	2	-	-	2	1	-	-	-	-
30	2	Tru	3	2	1	-	-	-	4	1	-	5	1	-	1	-	-
31	2	Tru	4	1	-	-	-	-	-	-	-	4	-	-	3	-	-
32	2	Tru,PKco	5	4	-	1	-	-	1	1	-	2	2	1	3	2	1
33	107	PKco,Tru	2	1	-	1	-	-	-	-	-	1	-	-	-	-	1
34	2	PKco	6	5	-	-	-	-	5	-	-	5	1	-	3	1	-
35	2	Tru	5	3	1	-	-	-	-	-	-	3	4	2	5	3	1
36	2	Q,Tru	10	2	1	6	-	-	7	1	-	3	-	-	2	-	-
37	2	Q	3	2	-	-	-	-	-	-	-	2	-	-	2	-	-
38	2	Q,Tru	5	11	1	4	-	-	-	-	-	8	2	-	7	6	2
39*	2	Q,Tru	6	3	2	8	1	-	3	-	-	4	-	-	6	1	-
40*	2	Q,Tru	3	2	8	1	4	8	-	-	-	1	-	-	1	5	7
41	2	Q	4	-	-	-	-	-	-	-	-	3	-	-	3	1	-
42	2	Q	13	-	-	4	1	-	2	-	-	-	1	-	3	-	-
43	3& 102	PPs	1	2	-	2	-	-	2	-	-	1	-	-	1	-	-
44	3	QTv	7	-	-	-	-	-	-	-	-	2	-	-	4	1	-
45	3	PKco	6	2	-	2	-	-	1	-	-	1	1	-	3	-	-
46	3	Tru,Qtv	10	4	1	2	-	-	5	-	-	5	5	-	5	1	-
47	3	Tru,Q	7	-	-	4	2	-	3	-	-	-	-	-	-	-	-
48	3	PKco,Tru	2	6	-	1	-	-	5	-	-	3	-	-	2	1	-
49	3	PKco	2	4	-	1	-	-	2	-	-	4	-	-	1	-	-
50*	3	PKco,Tru	8	15	11	2	-	-	4	1	-	8	9	8	13	8	5
51	107	PKco	2	1	1	-	-	-	-	-	-	1	2	-	1	2	-
52	3	PKco	2	1	-	1	-	-	2	-	-	1	1	-	1	-	-
53	3	PKco	4	2	-	2	-	-	1	-	-	2	1	-	2	-	-
54	3	PKco	2	4	1	-	-	-	-	-	-	-	2	-	-	-	2
55	3	Tru	4	-	-	-	-	-	-	-	-	2	1	-	3	1	-
56	3	Tru	5	1	-	-	-	-	-	-	-	1	5	-	2	3	-
57	3	Tru	7	1	-	-	-	-	-	-	-	5	3	-	2	4	2

* Preferred Anomalies

TABLE 3 EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo. Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/eTh 1	eU/eTh 2	eU/eTh 3	eU/K 1	eU/K 2	eU/K 3
58 *	3	Tru	4	2	2	1	6	-	5	-	-	-	-	-	1	1	1
59	3	Tru	2	2	-	3	-	-	2	-	-	1	-	-	2	-	-
60	3	Tru	6	7	-	-	-	-	2	2	-	8	3	1	10	-	-
61	4	Tru,Q	4	-	-	2	2	-	3	-	-	-	-	-	-	-	-
62	4	PKco	-	2	1	1	1	1	-	3	-	-	-	-	-	-	-
63	4	PKco	2	1	-	2	-	-	1	-	-	1	-	-	1	-	-
64	4	PKco	5	4	-	2	-	-	-	-	-	1	1	-	2	1	-
65	4	PKco	1	2	-	-	-	-	-	-	-	-	1	-	-	1	-
66	4	PKco	3	2	-	1	-	-	-	-	-	3	1	-	2	1	-
67	4	PKco	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
68	4	PKco	2	1	-	-	-	-	-	-	-	1	1	-	1	-	-
69	4	PKco,Tru	3	-	-	-	-	-	-	-	-	2	1	-	2	-	1
70	4	PKco	-	2	1	2	-	-	1	-	-	-	-	-	1	-	-
71*	4& 109	Tru,PKco	11	4	8	2	-	-	1	-	-	3	6	6	5	5	5
72	4	Tru	6	-	-	-	-	-	-	-	-	3	2	1	5	-	-
73*	5	QTu	4	2	3	-	-	-	-	-	-	-	-	8	-	2	6
74	102	PKcc	1	1	-	-	-	-	1	-	2	1	-	-	-	-	-
75	5	PKcc	2	1	-	3	-	-	2	1	-	-	-	-	-	-	-
76	6	QTu	4	1	-	-	-	-	-	-	-	-	1	3	-	2	2
77	102	PPs	1	2	-	-	-	-	1	-	-	1	1	-	-	-	-
78	6& 103	QTv	7	2	-	8	1	-	-	-	-	-	-	-	7	-	-
79	7	Q	2	1	-	-	-	-	-	-	-	2	1	-	2	-	-
80	107	PKco	2	2	1	-	-	-	1	-	-	-	-	-	1	1	-
81	8	PKco,QTu, QTv,PPS	6	6	1	6	2	3	3	-	-	2	-	-	8	1	-
82	8	PKco	-	1	1	1	-	1	1	-	-	-	-	-	1	-	-

* Preferred Anomalies

TABLE 3 EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo. Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/Th 1	eU/Th 2	eU/Th 3	eU/K 1	eU/K 2	eU/K 3
83	8	PKco,QTv	3	1	-	2	1	-	2	-	-	-	-	-	-	-	-
84	8	PKco	3	3	-	1	2	2	1	-	-	1	-	-	2	-	-
85	8	QTv	3	4	-	4	-	-	2	-	-	2	-	-	1	-	-
86	8	PKco	1	-	1	-	1	-	-	1	-	1	-	-	1	-	-
87	8	PKco	2	1	-	3	-	-	1	-	-	-	-	-	1	-	-
88	8	PKco	-	-	1	-	-	-	-	-	-	1	-	-	1	-	-
89	107	PKco	2	2	-	-	-	-	-	-	-	1	1	-	2	-	1
90*	9	Q,QTu	1	5	1	-	-	-	-	-	-	3	3	-	4	1	-
91*	101	Q,QTu	2	1	4	-	-	-	-	-	-	-	2	4	1	1	4
92	101	Q	3	3	-	-	-	-	1	-	-	4	1	-	4	-	-
93*	9	Q,QTu	1	5	14	-	-	-	-	-	-	-	4	12	1	3	14
94	9	Q,QTu,Qtv	2	5	-	-	-	-	-	-	-	-	1	5	1	-	5
95	9	PKco	3	6	3	3	2	3	7	3	-	2	-	1	2	-	-
96	9	QTv	5	1	-	3	2	-	2	-	-	-	-	-	-	-	-
97	9	QTv	2	2	-	4	-	-	3	-	-	-	-	-	-	-	-
98	9	QTv	5	5	1	5	6	-	8	-	-	-	-	-	-	-	-
99	9	PKco	-	2	-	-	-	-	-	-	-	2	-	-	2	-	-
100	9	QTv	2	1	-	1	2	-	-	-	-	-	-	-	2	1	-
101	9& 104	QTv,PKco	9	2	-	1	8	2	-	-	-	1	-	-	4	2	1
102	104	PKco	-	3	-	-	-	3	-	-	-	-	-	-	2	-	1
103	9	PKco	4	-	-	1	-	-	-	-	-	1	-	-	3	-	-
104	101	QTu,Q	3	1	-	-	-	-	-	-	-	3	1	-	3	1	-
105	10	QTu,Q	-	2	-	-	-	-	-	-	-	-	-	2	-	2	-
106*	10	QTu	1	1	6	-	-	-	-	-	-	-	-	5	-	-	5
107	10	QTv	1	2	-	3	-	-	-	-	-	-	-	-	2	-	-
108	10	PKcc	3	1	-	-	-	-	1	-	-	1	1	-	-	1	-
109	104	PKcc	1	3	1	-	-	-	-	-	-	3	2	-	2	2	-
110	11	QTu	3	2	-	-	-	-	-	-	-	3	1	-	4	-	-

* Preferred Anomalies

TABLE 3 EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo. Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/Th 1	eU/Th 2	eU/Th 3	eU/K 1	eU/K 2	eU/K 3
111*	11	Q	2	3	3	-	-	-	1	-	-	4	4	-	5	2	-
112*	11	Q,QTv	2	3	7	-	-	-	-	-	-	2	2	5	4	2	4
113*	11	Q,QTv	2	-	7	-	-	-	-	-	-	-	-	7	-	2	5
114*	11	Q,QTV,QTu	1	1	8	-	-	-	-	-	-	-	2	5	-	3	5
115	11	PKco	1	4	-	-	-	5	3	2	-	-	-	-	-	-	-
116	11	QTv,QTu	4	1	-	4	-	-	-	-	-	1	-	-	3	2	-
117	11	QTv	4	-	-	3	1	-	-	-	-	-	-	-	-	3	1
118	11	PKco	4	-	1	-	-	-	-	-	-	-	2	-	2	2	1
119	11	PKco,QTv	4	2	2	-	-	-	-	-	-	2	1	2	3	1	2
120	11	PKco	4	2	-	-	-	-	-	-	-	2	-	2	2	1	3
121	11	PKco	3	6	5	-	-	-	-	-	-	1	2	5	-	1	7
122	11	PKco	4	1	-	-	-	-	-	-	-	1	-	-	2	-	-
123	11	PKco	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-
124	11	PKco	2	2	5	-	-	-	-	-	-	3	1	1	2	2	1
125	11	PKco	1	2	-	-	-	-	-	-	-	1	-	-	2	-	-
126	105	PKco	2	-	1	-	-	-	-	-	-	-	1	1	-	1	1
127	11	PKco	2	1	-	-	-	-	-	-	-	-	1	-	-	1	-
128	106	PKco	1	2	1	-	-	-	-	-	-	1	1	-	1	1	-
129	11	PKco	3	2	-	-	-	-	-	-	-	1	1	-	1	1	-
130*	12	QTv	3	-	1	2	-	-	2	-	-	1	-	-	-	1	-
131	12	PKco	1	2	-	-	-	-	-	-	-	1	-	1	1	1	-
132	12	PKco	4	-	-	-	-	-	-	-	-	-	1	-	-	3	-
133	12	PKco	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
134	102	QTv	2	-	1	1	2	-	-	-	-	-	-	-	1	1	-
135*	13	PKco,QTv	1	-	2	-	-	3	2	-	-	-	-	-	1	-	-
136	13	PKco	2	3	-	-	-	-	-	-	-	1	-	-	3	2	-
137	13	PKco	3	1	-	-	-	-	-	-	-	1	1	-	1	1	-

* Preferred Anomalies

TABLE 3 EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo.Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/Th 1	eU/Th 2	eU/Th 3	eU/K 1	eU/K 2	eU/K 3
138	13	PKco	5	-	-	-	-	-	-	-	-	1	-	-	-	2	-
139	13	PKco	4	1	-	-	-	-	-	-	-	1	1	1	1	2	-
140	14	MDu	2	2	-	1	1	-	2	-	-	2	-	-	2	-	-
141	14	Cts	4	-	-	3	-	-	-	-	-	-	-	-	3	1	-
142	14	Cts	1	3	-	2	2	-	1	-	-	-	-	-	1	-	-
143*	14& 102	QTv, Ti	9	4	6	7	5	3	10	5	-	3	1	-	1	-	-
144	14	QTv	1	-	1	-	-	-	2	-	-	1	-	-	-	-	-
145	14	PKco	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-
146	107	PKco	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-
147	14	PKco	2	1	-	-	-	-	-	-	-	1	-	-	-	1	-
148	14	PKco	2	1	-	-	-	-	-	-	-	-	1	-	-	1	-
149	14	PKco	3	1	-	-	-	-	-	-	-	-	1	-	-	-	1
150	15	QTv	3	1	-	3	-	-	-	-	-	-	-	-	-	-	-
151	15	QTv	4	-	-	2	1	-	-	-	-	-	-	-	-	-	-
152	15	QTv	3	2	-	3	2	-	-	-	-	-	-	-	-	3	2
153	15	QTv	3	2	-	2	2	-	-	-	-	-	-	-	3	-	-
154	15	QTv	6	1	-	2	4	1	-	-	-	-	-	-	2	1	-
155	103	QTv	3	1	-	1	3	-	-	-	-	-	-	-	3	-	-
156	15& 107	PKco	3	2	-	-	-	-	-	-	-	-	1	-	-	1	-
157	15	PKco	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
158	15	PKco	1	3	-	-	-	-	-	-	-	-	2	-	-	2	-
159	109	PKco	3	2	-	3	2	-	-	-	5	-	-	-	-	-	-
160*	104	PnMD	-	1	5	1	-	5	-	1	5	-	-	-	-	-	-
161	16	PnMD	-	3	1	1	-	2	2	-	2	1	-	-	-	-	-
162*	16	PPsn	-	-	2	-	-	-	-	-	-	1	-	1	-	1	1
163	107	PKco	1	3	3	-	-	-	-	-	-	-	-	-	-	-	-
164	107	PKco	1	1	2	-	-	-	-	-	-	-	-	-	-	-	-
165	107	PKco	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-

* Preferred Anomalies

TABLE 3 · EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo. Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/Th 1	eU/Th 2	eU/Th 3	eU/K 1	eU/K 2	eU/K 3
166	107	PKco	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
167	16	PKco	-	-	2	-	-	2	-	-	-	-	-	-	-	-	2
168	17	QTv	4	1	-	3	-	-	-	-	-	1	-	-	2	2	-
169	17	QTv	3	1	-	3	1	-	-	-	-	-	-	-	2	1	-
170	17	pЄu	3	1	-	-	-	-	1	3	-	2	-	-	-	-	-
171	17& 108	PKco,Ku	5	1		2	1	-	1	2	3	1	-	-	-	-	-
172	17	Ku	5	-	-	2	-	-	4	-	-	2	-	-	-	-	-
173	18	pЄgr	5	1	-	4	-	-	6	-	-	-	-	-	-	-	-
174	18	QTu	6	1	-	-	2	5	1	5	1	-	-	-	-	-	-
175	18& 103	QTv	2	2	-	-	4	-	-	-	-	-	-	-	1	1	2
176	18	pЄgr	6	5	-	2	1	3	3	-	-	1	1	-	4	-	-
177	18	pЄgr	4	-	-	-	-	-	1	-	-	1	-	-	-	-	-
178	18	pЄgr	6	2	-	-	-	-	2	-	-	3	-	-	3	-	-
179	105	pЄgr	4	1	-	-	-	-	-	-	-	3	-	-	3	-	-
180	18	pЄgr	-	2	-	-	-	-	2	-	-	1	-	-	-	-	-
181*	18	pЄgr,Ts	2	-	1	1	-	-	2	-	-	-	-	-	-	-	-
182	18	pЄgr,Ts	2	2	-	-	1	2	2	1	-	-	-	-	1	-	-
183	18	PKco	2	1	-	1	-	-	-	-	-	-	-	-	1	-	-
184	108	PKco	1	2	1	1	-	-	-	-	-	-	-	-	-	-	-
185	102	QTv,pЄgr	5	1	1	1	2	4	1	-	6	-	-	-	-	-	-
186	19	pЄgr	2	2	-	2	-	-	3	-	-	1	-	-	-	-	-
187*	19	QTv	2	6	3	4	4	1	1	2	8	1	-	-	-	-	-
188	19	pЄgr	1	3	-	3	-	-	4	-	-	1	-	-	-	-	-
189	19	Pm	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-
190*	19	pЄgr	3	-	1	1	1	1	2	-	-	-	-	-	-	-	-
191	19	pЄm	-	-	1	1	-	-	1	-	-	1	-	-	1	-	-
192	19	pЄr,Tu	3	-	1	1	1	-	1	3	-	2	-	-	-	-	-
193*	105	Tu,pЄr	3	2	3	1	1	3	4	4	-	2	-	-	-	-	-
194	19& 105	Tu	2	1	-	-	-	-	1	2	-	-	1	1	-	-	-

* Preferred Anomalies

TABLE 3 EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo.Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/eTh 1	eU/eTh 2	eU/eTh 3	eU/K 1	eU/K 2	eU/K 3
195*	105	Tu,pЄr	2	-	3	-	1	2	3	1	-	-	2	-	1	-	-
196	19	pЄm	2	3	-	7	3	-	9	-	1	1	-	-	-	-	-
197*	19	pЄm	2	3	4	5	3	1	7	2	-	1	-	-	1	-	-
198*	19	pЄm,QTu,Td	4	8	2	9	5	-	6	5	3	1	-	-	3	1	-
199	19	PKco,Ku	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-
200	109	PKco	1	1	1	-	3	-	3	-	-	-	-	-	1	-	-
201	20& 102	Q,QTu	8	1	-	-	-	9	-	4	5	-	-	-	-	-	-
202	20	pЄgr	4	3	2	5	-	-	7	-	-	1	-	-	-	-	-
203	20	pЄgr	3	2	-	2	2	1	4	-	-	-	-	-	-	-	-
204*	20	pЄm	2	7	1	8	1	-	6	4	-	2	-	-	-	-	-
205	20	PPsn	4	-	-	-	-	-	-	-	-	-	2	1	2	1	-
206	20	PPsn	2	1	-	-	-	-	-	-	-	-	2	-	2	1	-
207	20	PKcc	2	1	-	2	-	-	-	-	-	-	-	-	-	-	-
208	110	PKcc,Ku	4	5	3	6	1	2	-	-	-	-	-	-	2	6	1
209*	21	QTv	1	2	2	3	2	-	-	1	4	1	-	-	-	-	-
210*	21	QTv,pЄgr	2	-	1	1	-	2	1	-	2	-	-	-	-	-	-
211	101	QTv	1	1	1	-	3	-	-	-	3	-	-	-	-	-	-
212	102	QTv	4	3	-	2	-	-	3	2	2	2	-	-	-	-	-
213*	21	QTv	5	4	5	-	6	3	-	-	14	-	-	-	-	-	-
214	21	QTv,pЄgr	7	3	-	2	1	-	4	-	1	1	-	-	2	-	-
215	21	pЄr	3	1	-	3	-	-	2	-	-	1	-	-	1	-	-
216	105	pЄm,Tu	4	1	-	2	2	-	-	2	2	1	-	-	-	-	-
217	106	Td	6	1	-	4	3	-	5	2	-	-	-	-	-	-	-
218*	107	PPsn	3	-	2	2	-	-	-	-	-	-	2	-	1	1	1
219	109	PKco	-	3	-	-	-	3	-	-	-	-	-	-	1	1	1
220*	22	QTv	2	-	6	1	5	-	1	2	5	3	-	-	-	-	-
221*	22	QTv	1	5	2	3	-	-	-	3	5	4	-	-	-	-	-
222	22	QTv	1	3	-	2	1	1	-	-	4	-	-	-	-	-	-
223	22	QTv	-	2	-	1	1	-	-	-	2	-	-	-	-	-	-
224	22	pЄgr	4	1	-	4	-	-	3	-	-	-	-	-	-	-	-

* Preferred Anomailes

TABLE 3 EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo. Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/eTh 1	eU/eTh 2	eU/eTh 3	eU/K 1	eU/K 2	eU/K 3
225	22	pЄmg,QTu	2	2	-	-	2	1	-	2	2	-	-	-	-	-	-
226	22	QTu	4	-	-	4	-	-	1	-	-	-	-	-	-	-	-
227	22& 105	pЄm,pЄa	3	-	-	-	3	-	-	1	-	-	-	-	1	-	-
228	22	pЄm	4	2	-	2	1	3	2	2	-	-	-	-	1	-	-
229	22	pЄu	-	-	1	-	-	-	-	1	-	-	1	-	-	-	-
230	22	PPsn	1	2	1	1	-	-	-	-	-	1	-	-	-	2	1
231	22	PPsn	2	1	-	3	-	-	-	-	-	-	-	-	2	1	-
232*	22	PPsn	-	4	4	5	-	-	-	-	-	2	1	2	2	2	4
233	22	Ku	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-
234	22	Ku	1	2	1	-	-	-	-	-	-	-	-	-	-	-	-
235*	110	PKco,Ku	2	2	6	-	-	-	-	-	-	-	-	-	-	-	-
236	23	QTu	4	3	-	2	5	-	3	4	-	-	-	-	-	-	-
237*	23	QTv	3	10	5	10	5	-	18	-	-	5	-	-	-	-	-
238*	23	QTl,pЄgr	5	6	3	-	5	9	2	2	4	-	-	-	4	2	-
239*	23& 102	QTv,QTl,Q	-	4	9	-	-	-	2	-	-	1	2	9	2	-	8
240	103	pЄmg	3	1	-	-	-	-	-	-	-	3	-	-	1	1	-
241	103	pЄmg	3	4	-	1	-	-	7	-	-	4	-	-	-	-	-
242	23	pЄa,pЄm	5	1	-	4	1	-	-	-	-	-	-	-	2	1	1
243	23	pЄm	3	1	-	3	1	-	1	-	-	1	-	-	1	-	-
244	23	pЄa	2	-	1	-	-	-	1	2	-	-	-	1	-	-	-
245	23	pЄa	3	2	1	-	1	3	-	-	-	-	-	-	3	2	-
246	23& 105	pЄa,Qtv	12	2	-	1	-	-	5	5	3	5	2	1	1	-	-
247*	23	QTv	-	1	2	-	-	3	-	-	3	-	-	-	-	-	-
248*	23	QTv,Td	1	5	4	-	-	10	2	-	8	-	-	-	-	-	1
249*	23	pЄu	2	-	3	4	-	-	4	1	-	2	1	1	1	-	-
250	23	pЄu	1	3	-	2	-	-	2	2	-	1	1	-	-	-	-

* Preferred Anomalies

TABLE 3 EQUIVALENT URANIUM ANOMALIES

Anom. No.	F.L. No.	Geo. Fm.	Number of Points: eU 1	eU 2	eU 3	eTh 1	eTh 2	eTh 3	K 1	K 2	K 3	eU/eTh 1	eU/eTh 2	eU/eTh 3	eU/K 1	eU/K 2	eU/K 3
251	23	PPsn	5	-	-	2	-	-	-	-	-	1	1	-	-	4	-
252	23	PPsn	-	-	2	1	1	-	-	-	-	1	-	-	-	1	1
253	23	PPsn	1	2	-	-	-	-	-	-	-	2	-	-	2	1	-
254*	23	PPsn	2	1	2	3	1	-	-	-	-	2	-	-	1	3	-
255	23	PPsn,Q	4	1	1	4	-	-	-	-	-	2	-	-	5	-	-
256	23	PPsn	-	-	3	-	-	-	-	-	-	1	2	-	-	2	1
257	23	PPsn	1	2	1	1	1	-	-	-	-	1	-	-	3	1	-
258	23	PPsn	2	1	-	3	-	-	1	-	-	-	-	-	-	-	-
259	23	PPsn,PKco	4	-	-	1	-	-	2	1	1	1	-	-	-	-	-
260	110	Ku	2	2	2	1	-	-	-	-	-	2	1	1	-	1	2

* Preferred Anomalies

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3.2 MAPS

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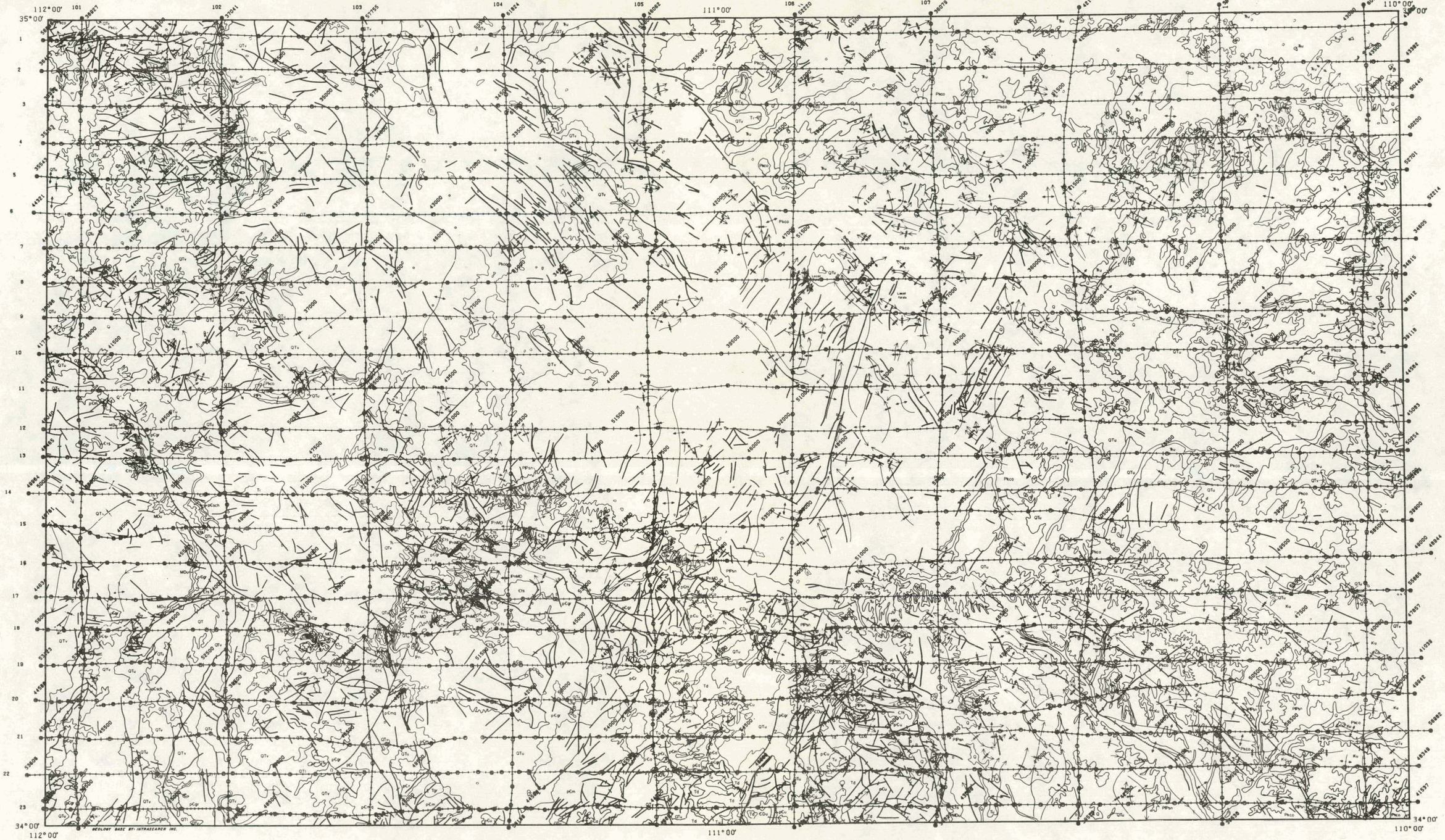

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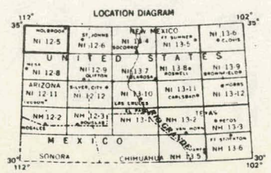
5 0 5 10 15 20 25 KILOMETERS

LOCATION DIAGRAM



NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

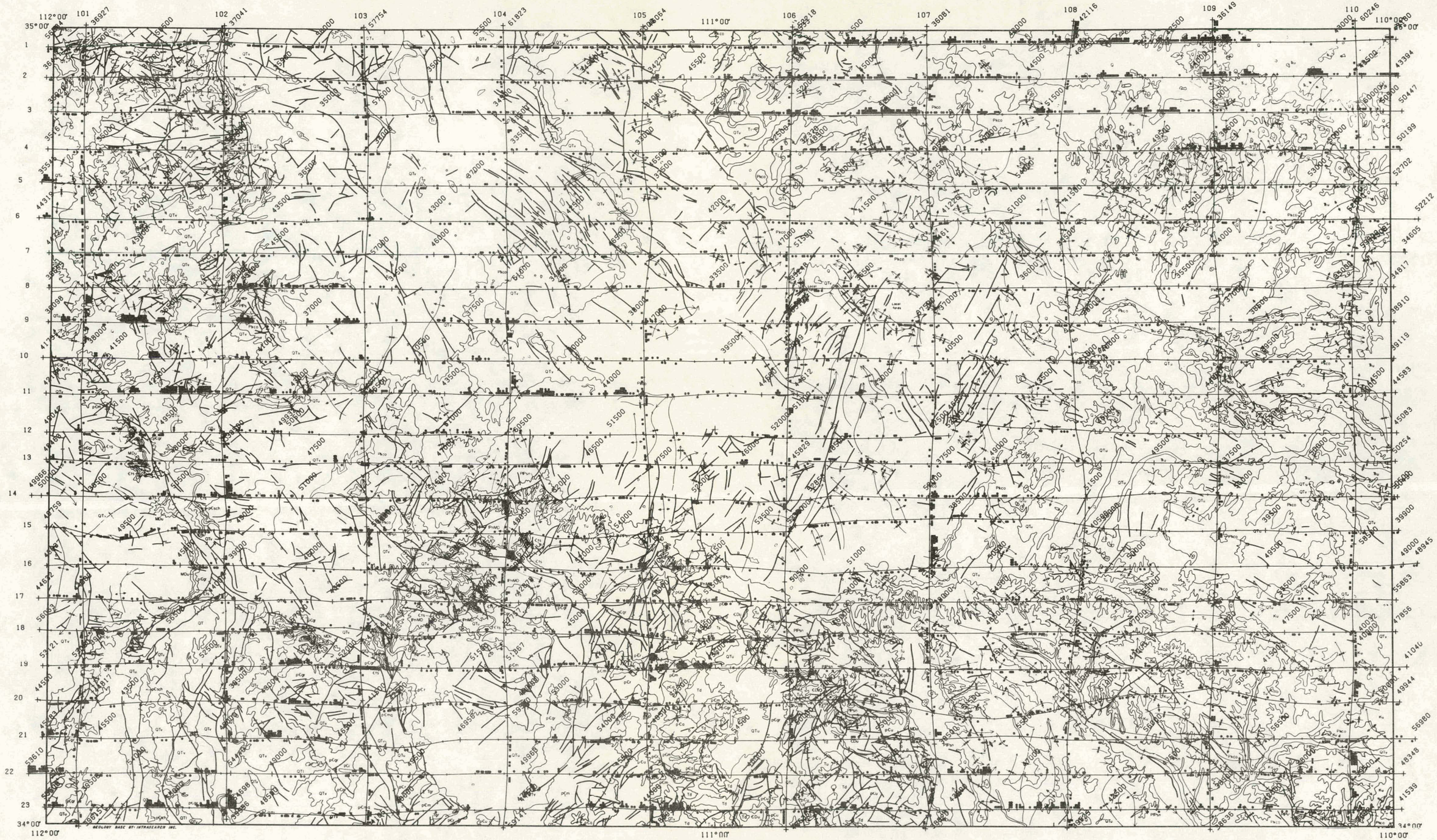
FLIGHT LINE BASE MAP

1979

BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944

PREPARED FOR

DEPARTMENT OF ENERGY



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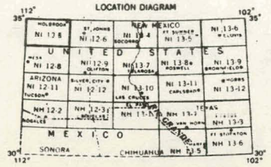
5 0 5 10 15 20 25 KILOMETERS

LOCATION DIAGRAM



EXPLANATION

INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES.

AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION INTERVALS ANNOTATED ARE 1 TO 2, 2 TO 3, AND 3 OR GREATER.

TRAVERSE LINE DEVIATIONS ARE INDICATED BY SOLID CIRCLES AND TIE LINES BY SQUARES. NORTH OR EAST ARE POSITIVE AND SOUTH OR WEST ARE NEGATIVE.

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

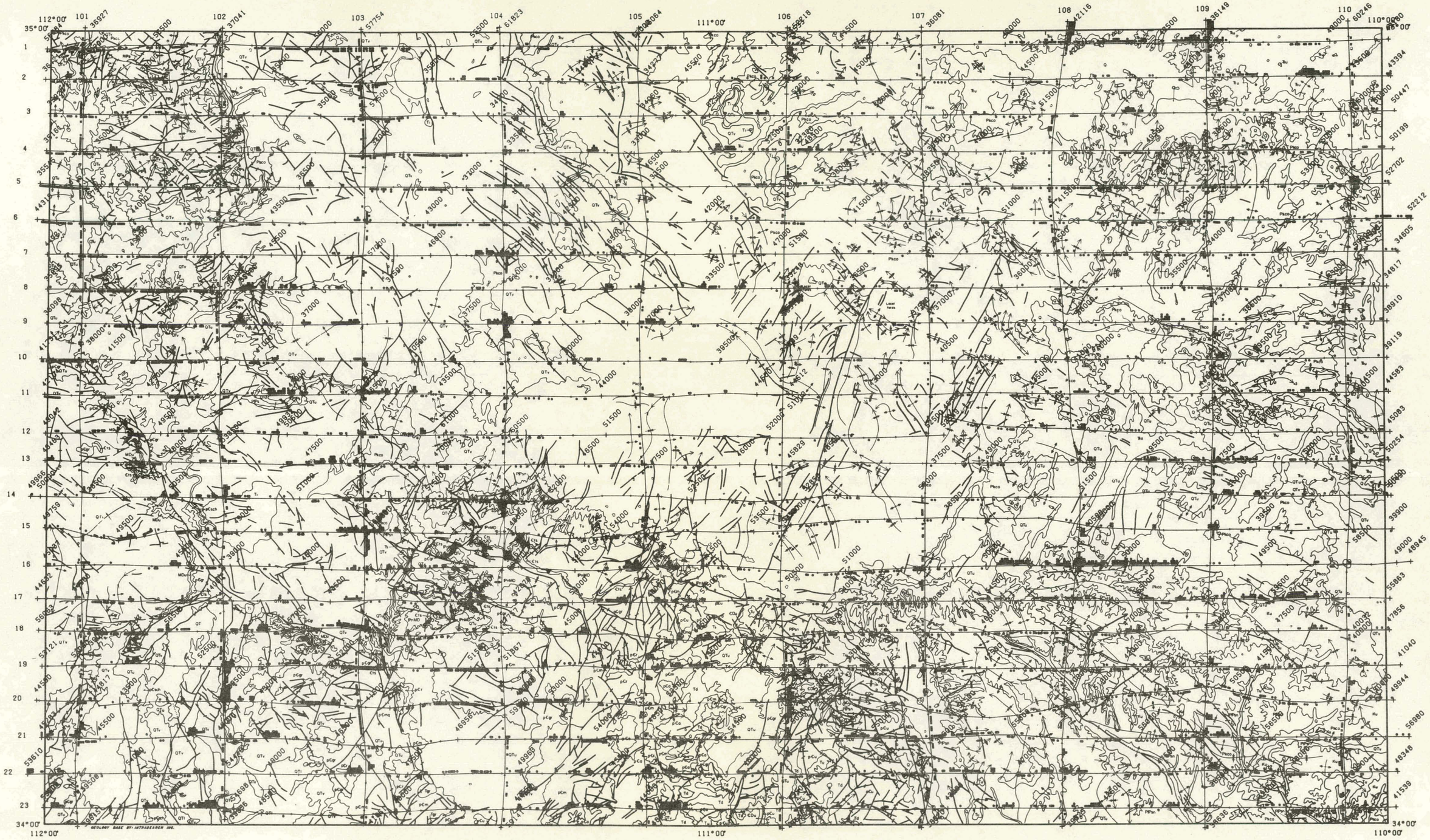
ANOMALY MAP - URANIUM

1979

BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944

PREPARED FOR

DEPARTMENT OF ENERGY

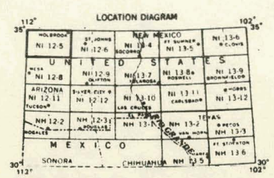


SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

LOCATION DIAGRAM



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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

ANOMALY MAP - THORIUM

1979

BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944

PREPARED FOR

DEPARTMENT OF ENERGY

112°00' 111°00' 110°00' 35°00' 34°00'

GEOLOGY BASE BY: INTRASEARCH INC.

EXPLANATION

INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES.

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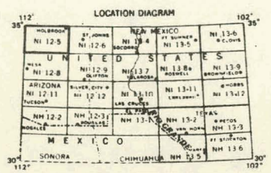
SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

LOCATION DIAGRAM



NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

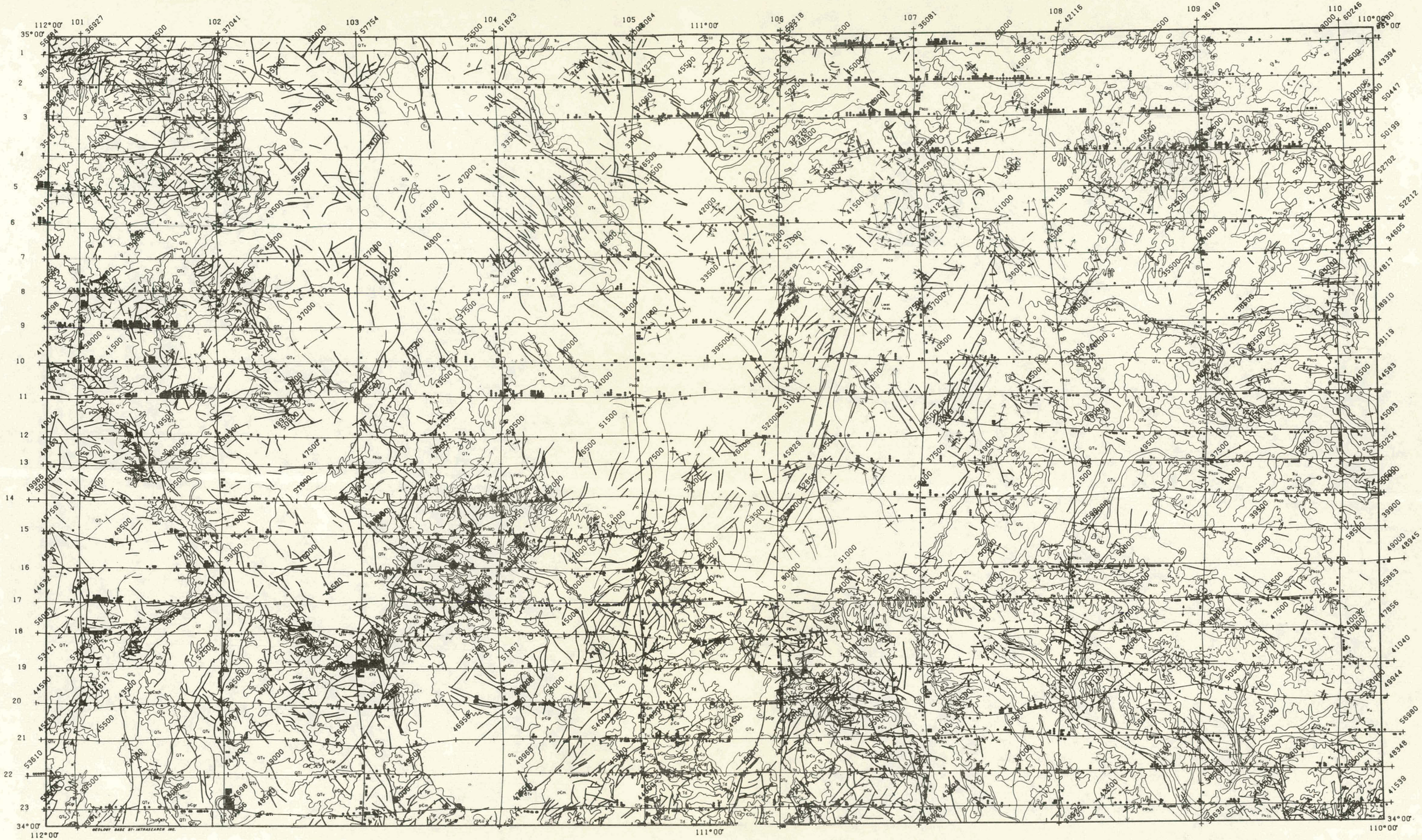
ANOMALY MAP - POTASSIUM

1979

BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944

PREPARED FOR

DEPARTMENT OF ENERGY



SCALE 1:500,000

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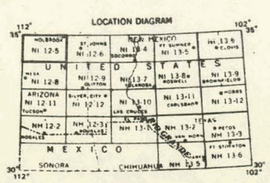
5 0 5 10 15 20 25 KILOMETERS

LOCATION DIAGRAM



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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

ANOMALY MAP - URANIUM / THORIUM

1979

BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944

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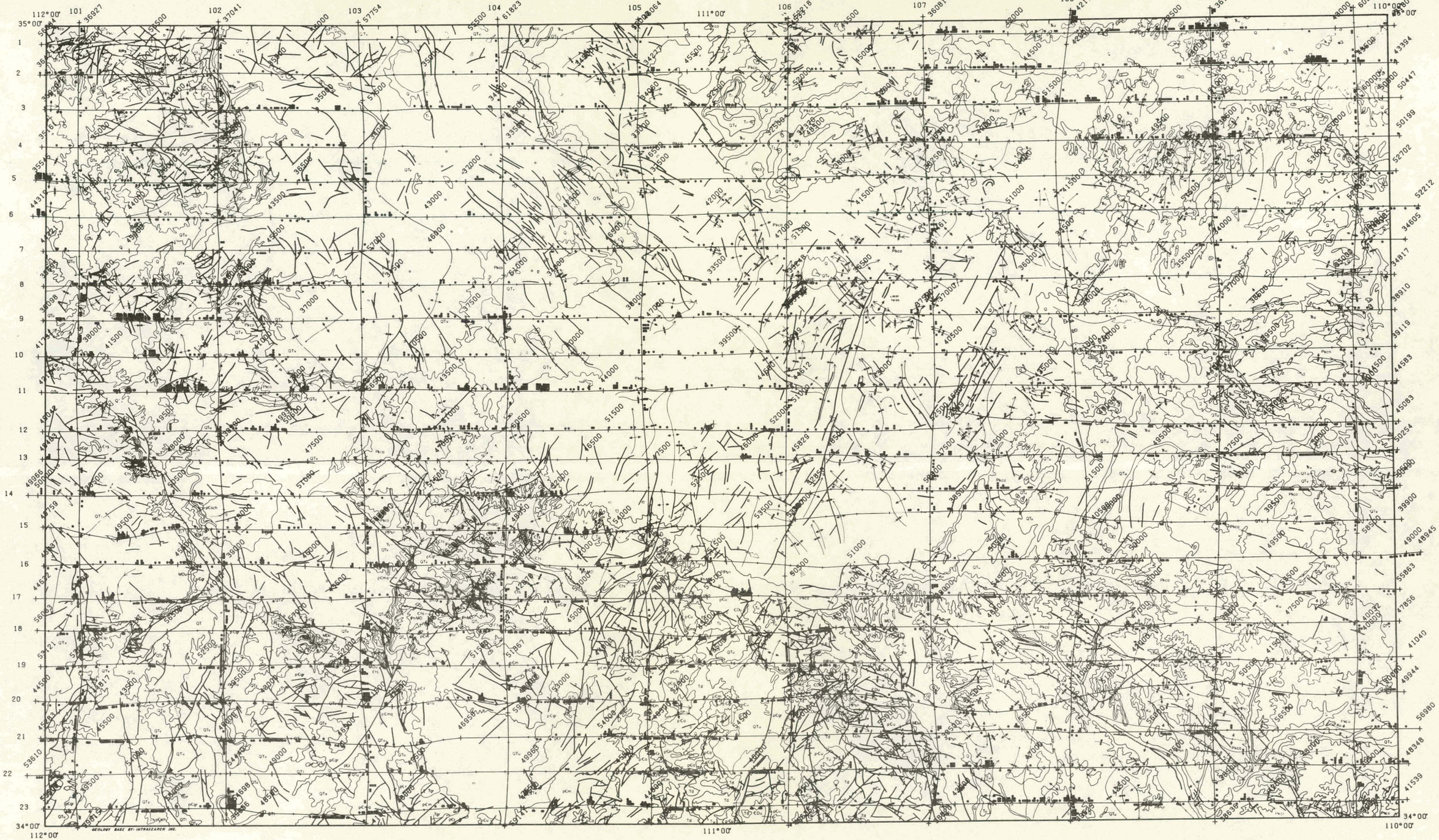

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5 0 5 10 15 20 25 MILES

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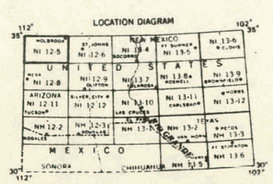
LOCATION DIAGRAM



NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

ANOMALY MAP - URANIUM / POTASSIUM

1979

BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944

PREPARED FOR

DEPARTMENT OF ENERGY

112°00′ 111°00′ 110°00′ 35°00′ 34°00′

GEOLOGY BASE BY: INTRASEARCH INC.

EXPLANATION

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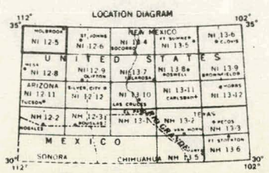
SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

LOCATION DIAGRAM



NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

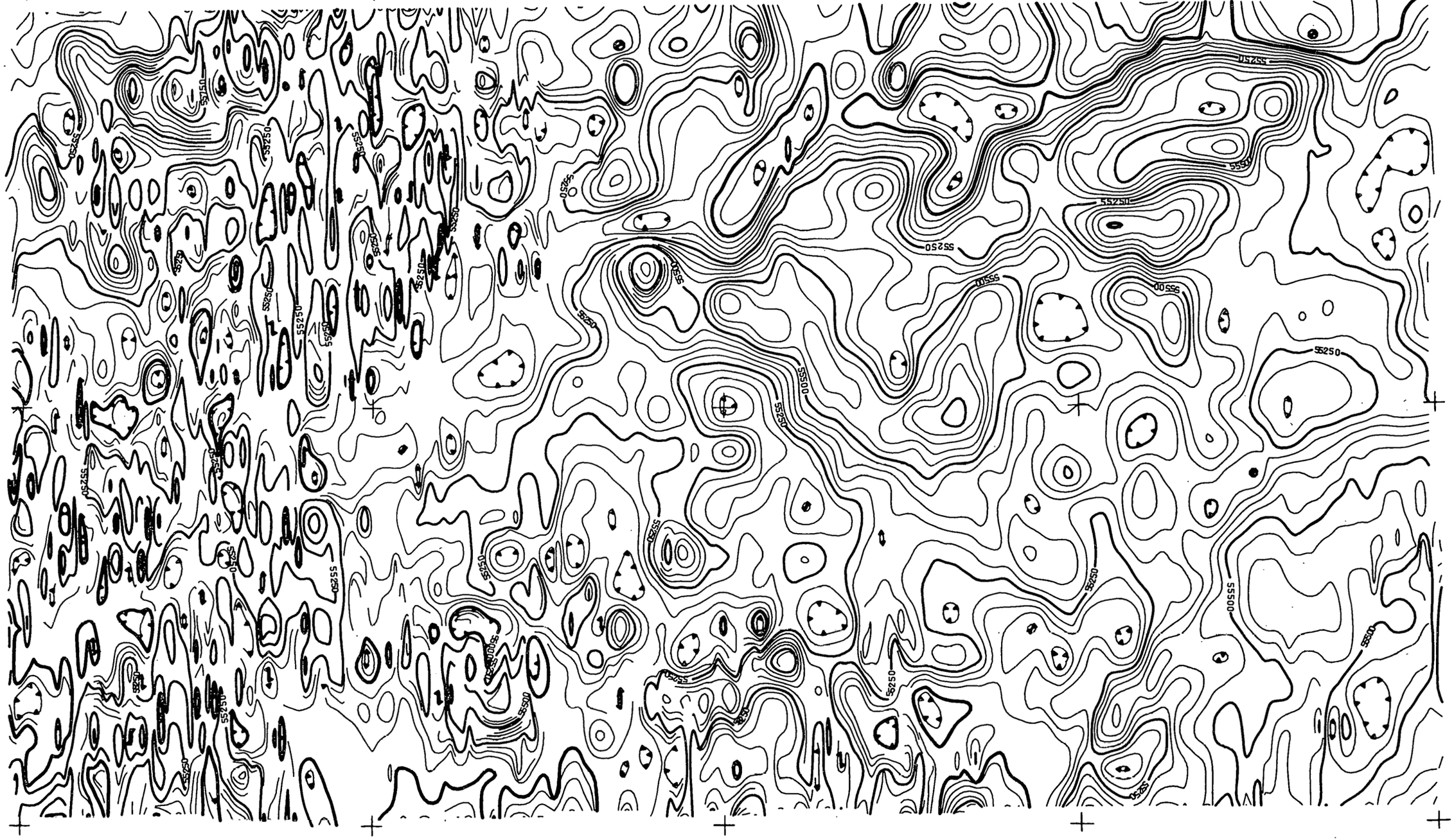
ANOMALY MAP - THORIUM/POTASSIUM

1979

BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944

PREPARED FOR

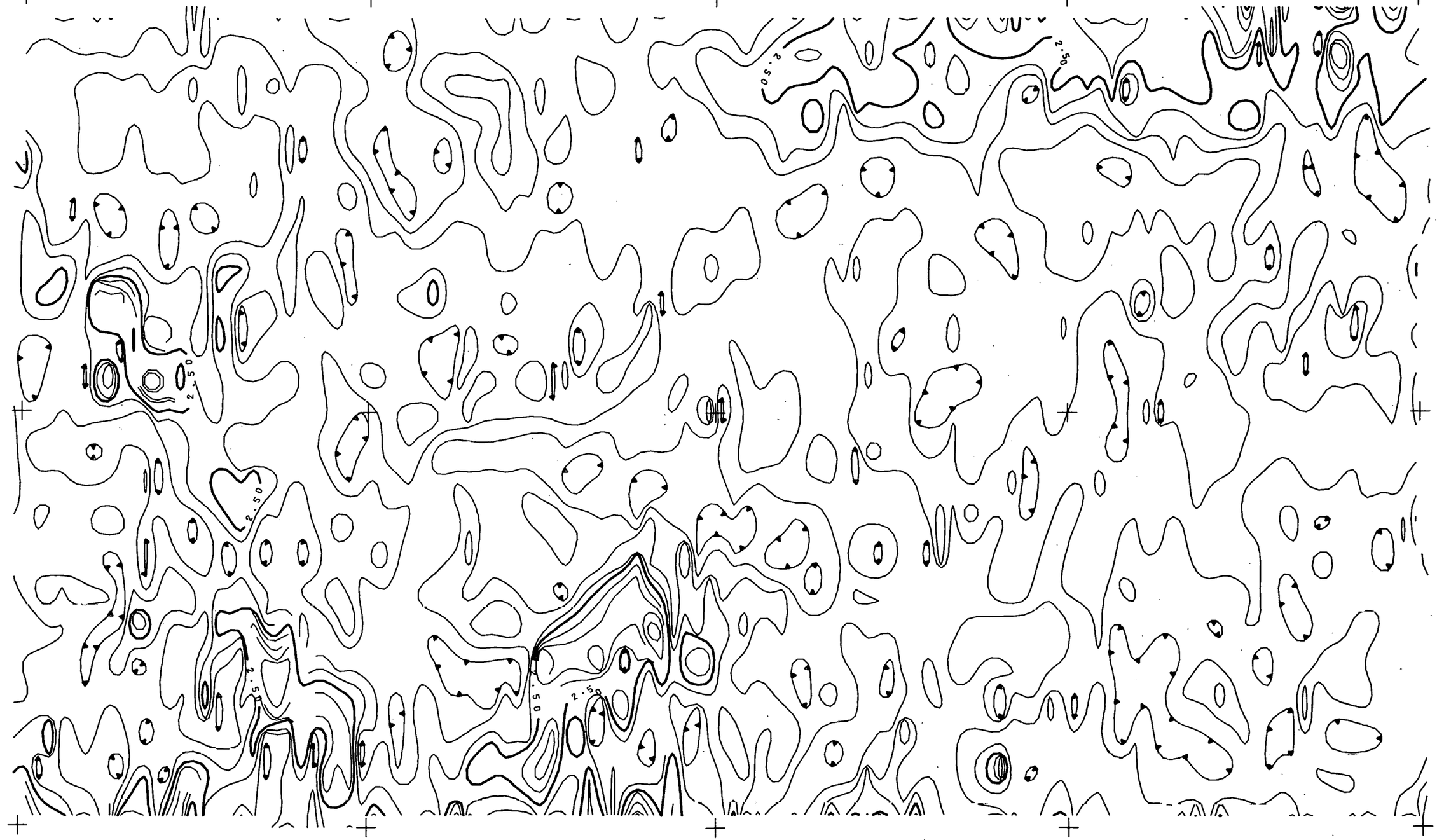
DEPARTMENT OF ENERGY



CONTOUR INTERVAL 50 GAMMAS

SCALE 1:500,000

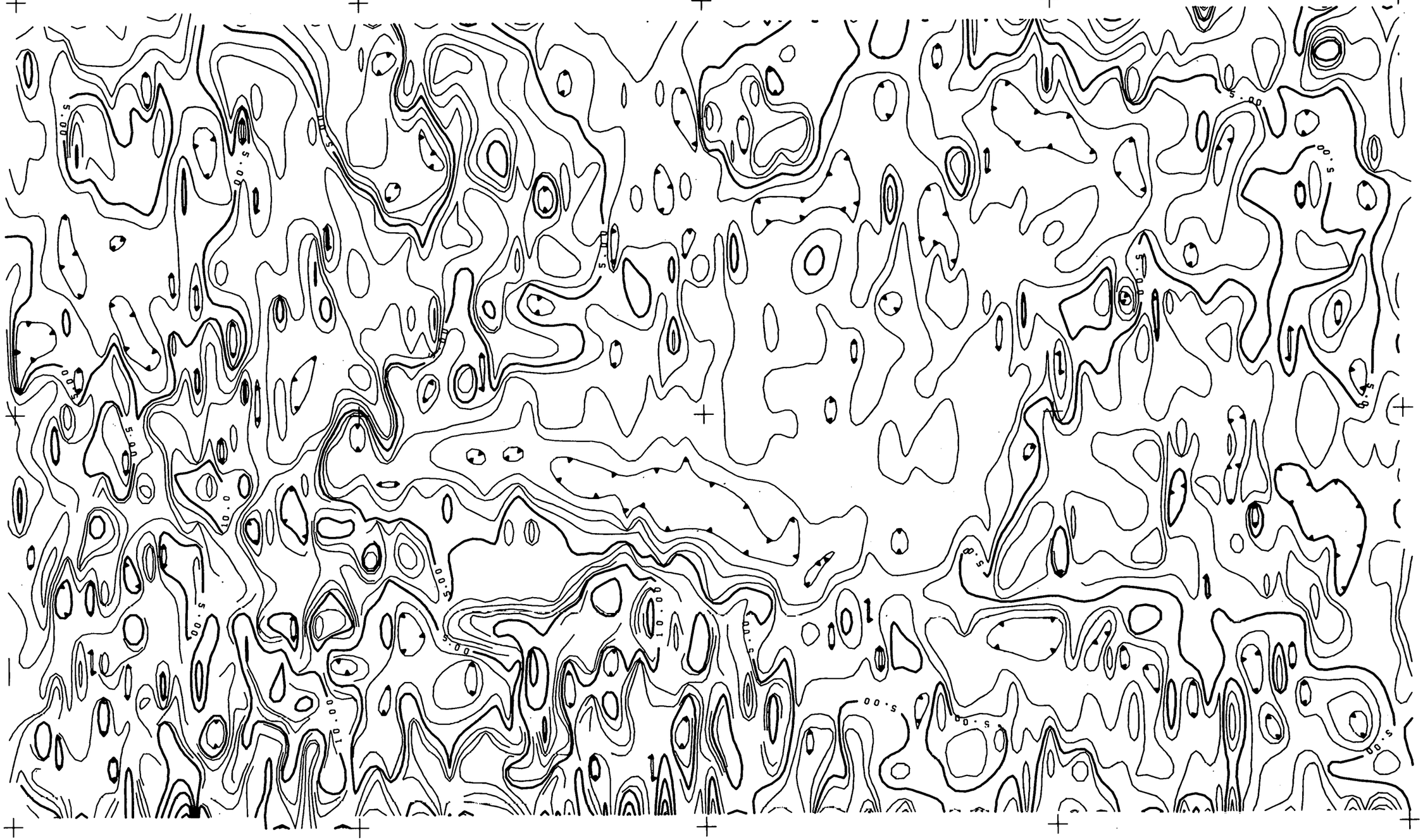
HOLBROOK NI 12-5
MAGNETIC



CONTOUR INTERVAL 0.50 PPM

SCALE 1:500,000

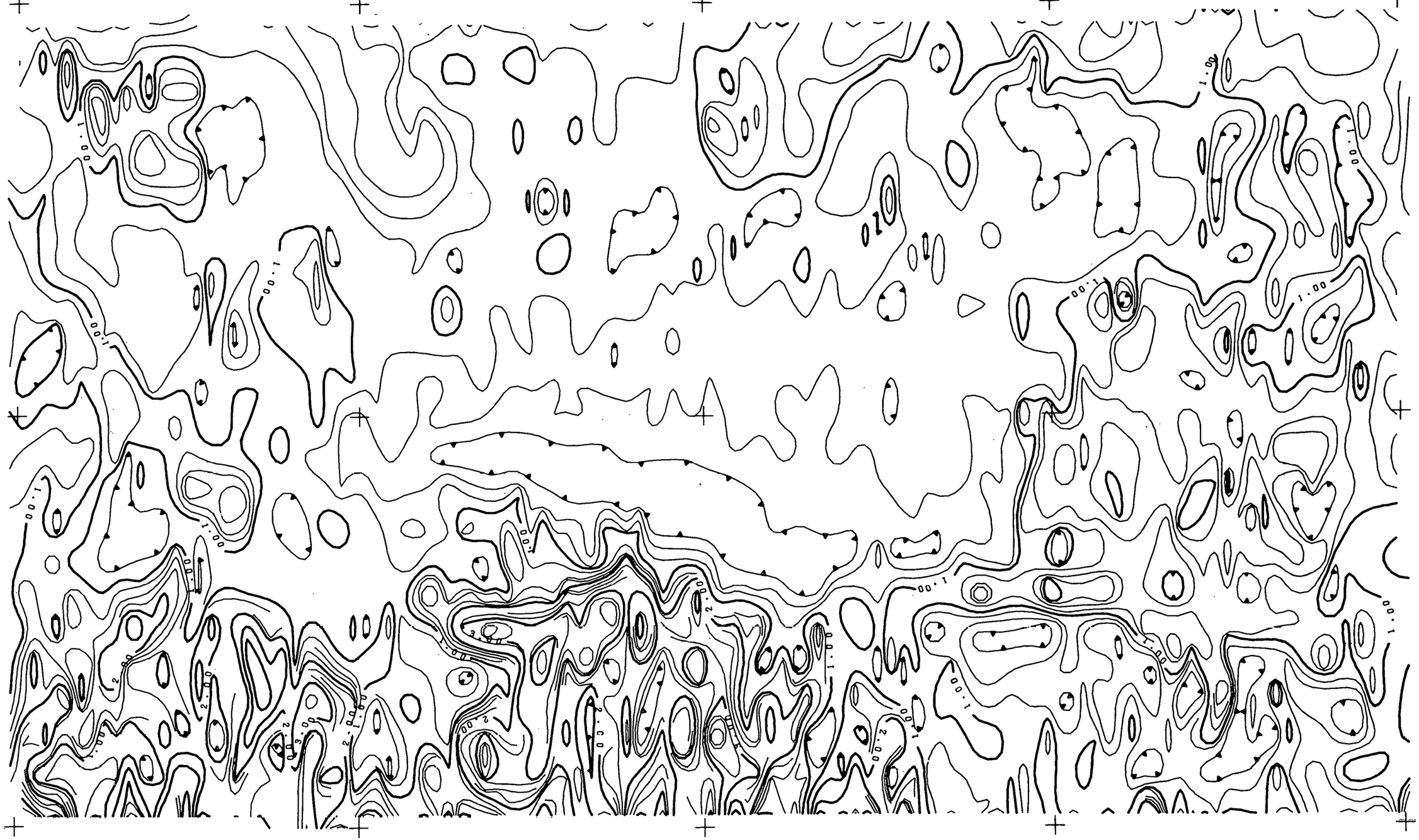
HOLBROOK NI 12-5
URANIUM



CONTOUR INTERVAL 1.0 PPM

SCALE 1:500,000

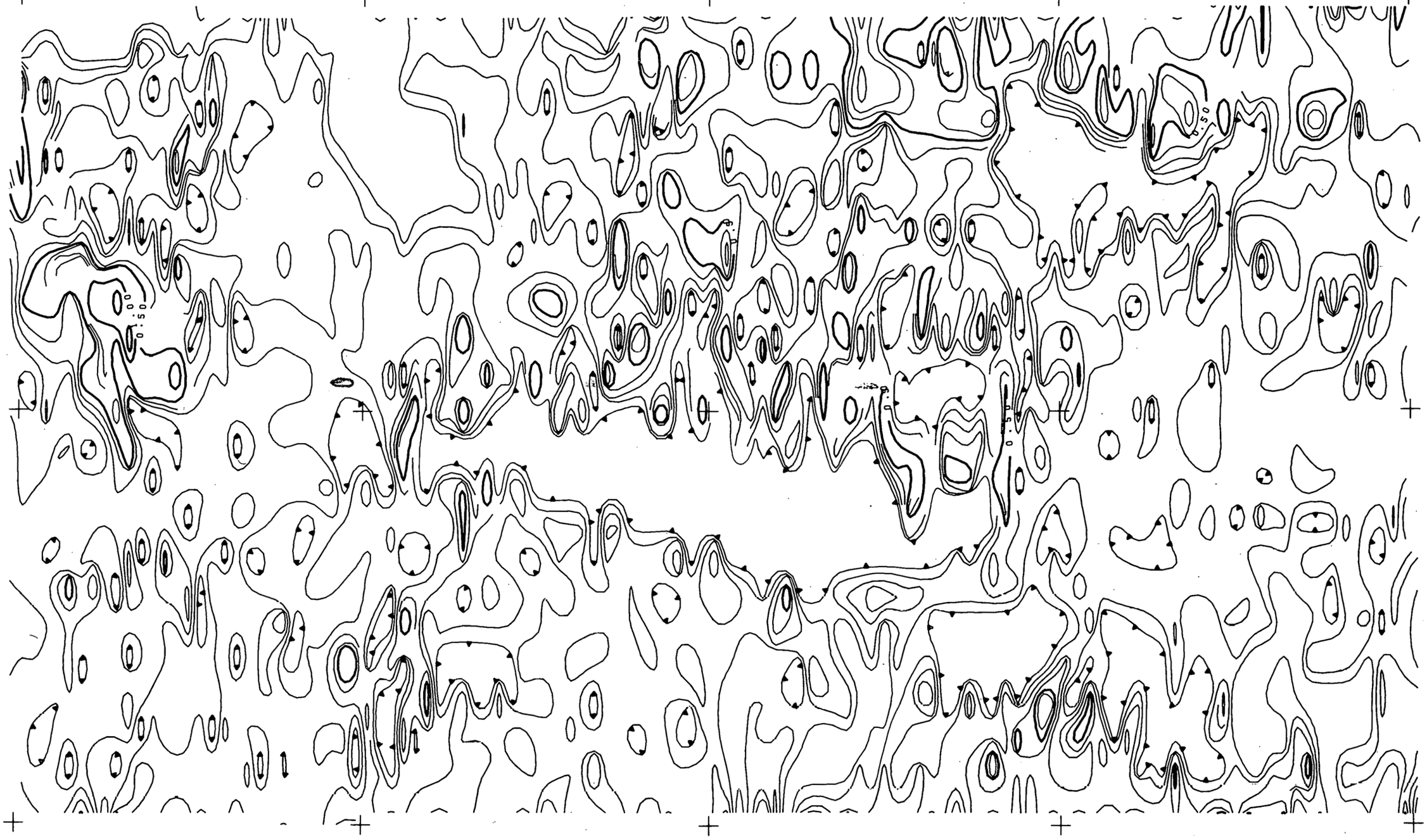
HOLBROOK NI 12-5
THORIUM



CONTOUR INTERVAL 25%

SCALE 1:500,000

HOLBROOK NI 12-5
POTASSIUM



CONTOUR INTERVAL 0.10 UNITS

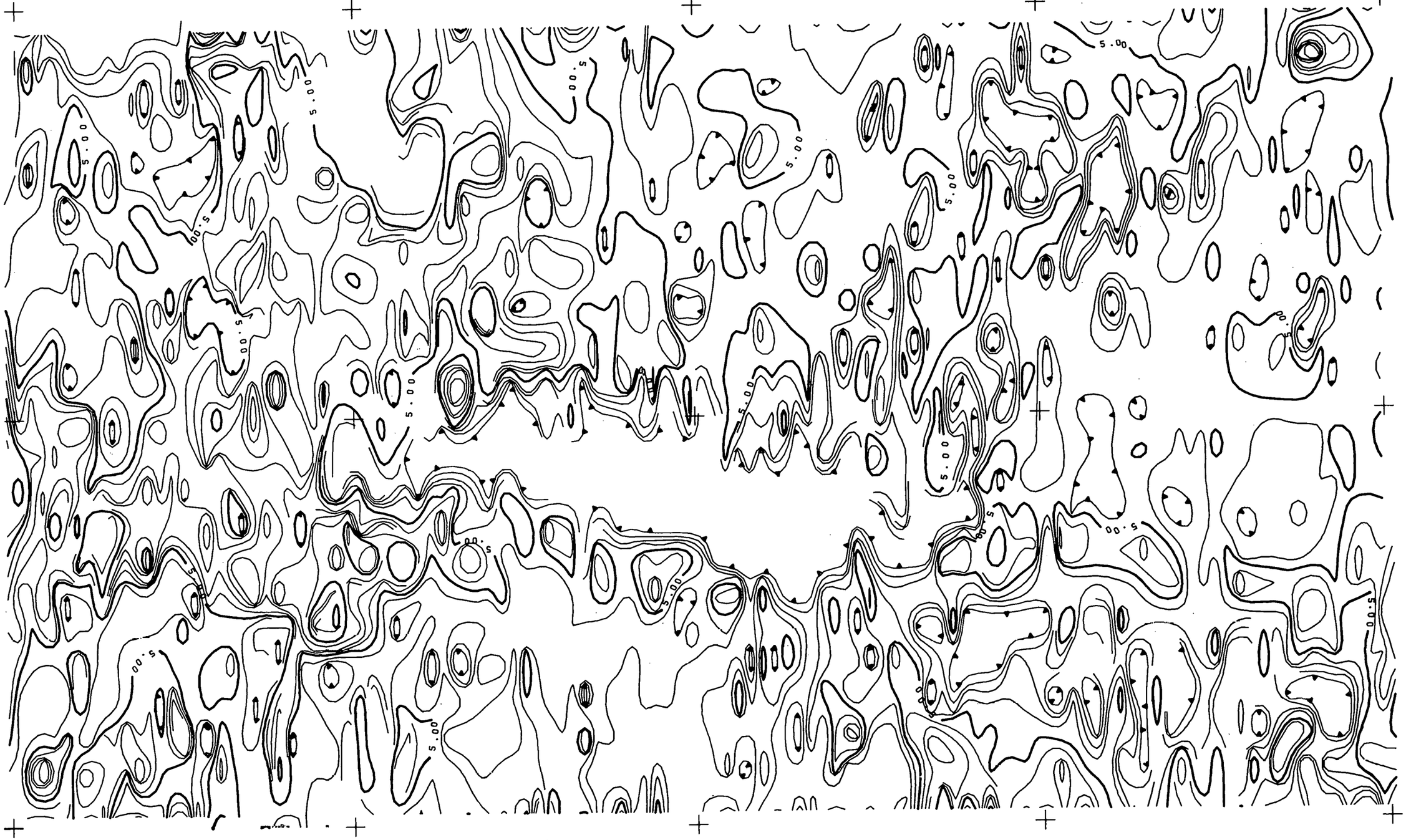
SCALE 1:500,000

HOLBROOK NI 12-5
URANIUM/THORIUM

CONTOUR INTERVAL 0.50 UNITS

SCALE 1:500,000

HOLBROOK NI 12-5
URANIUM/POTASSIUM

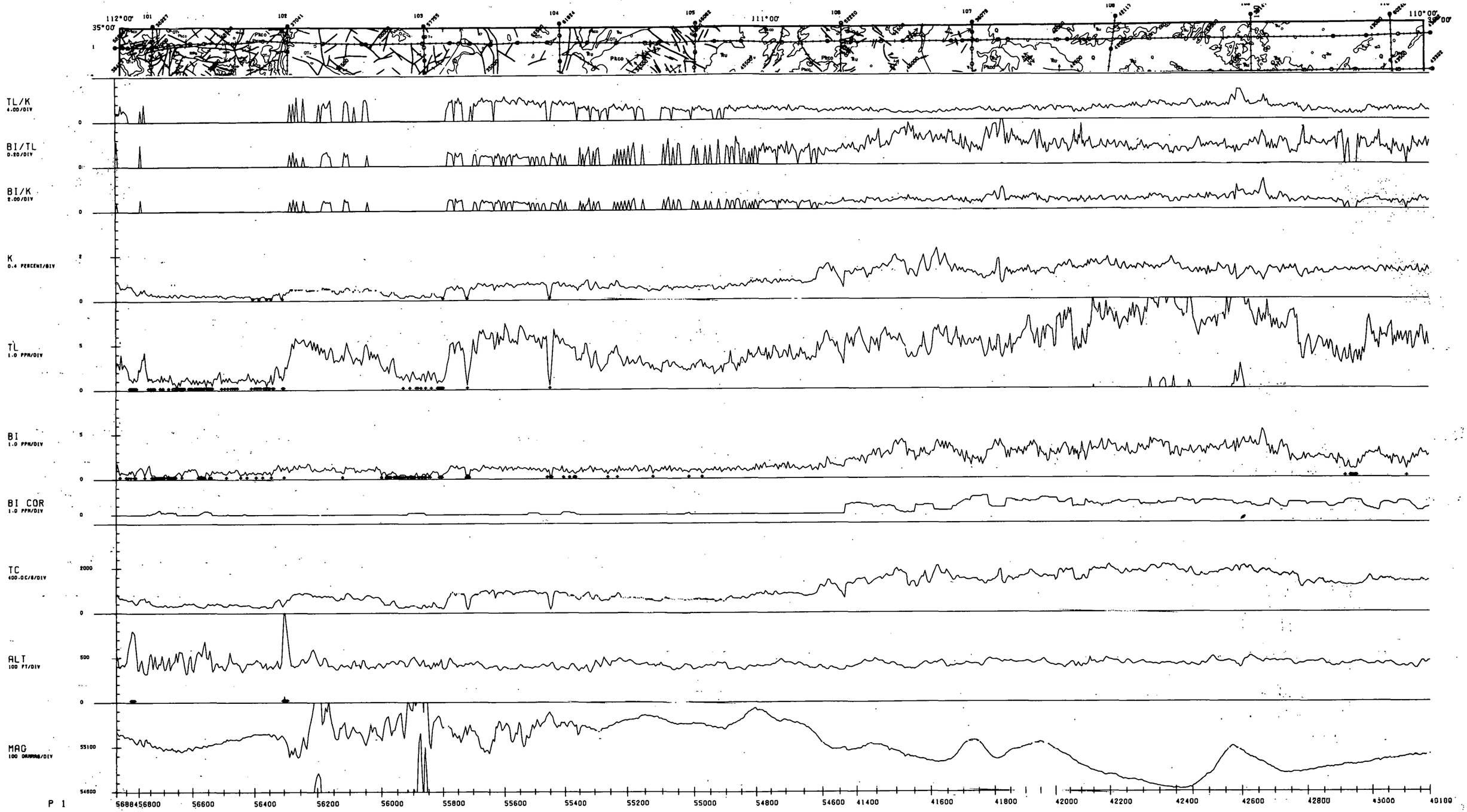


CONTOUR INTERVAL 0.50 UNITS

SCALE 1:500,000

HOLBROOK NI 12-5

THORIUM/POTASSIUM



↑ FLAGGED SAMPLE VALUES OF N.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

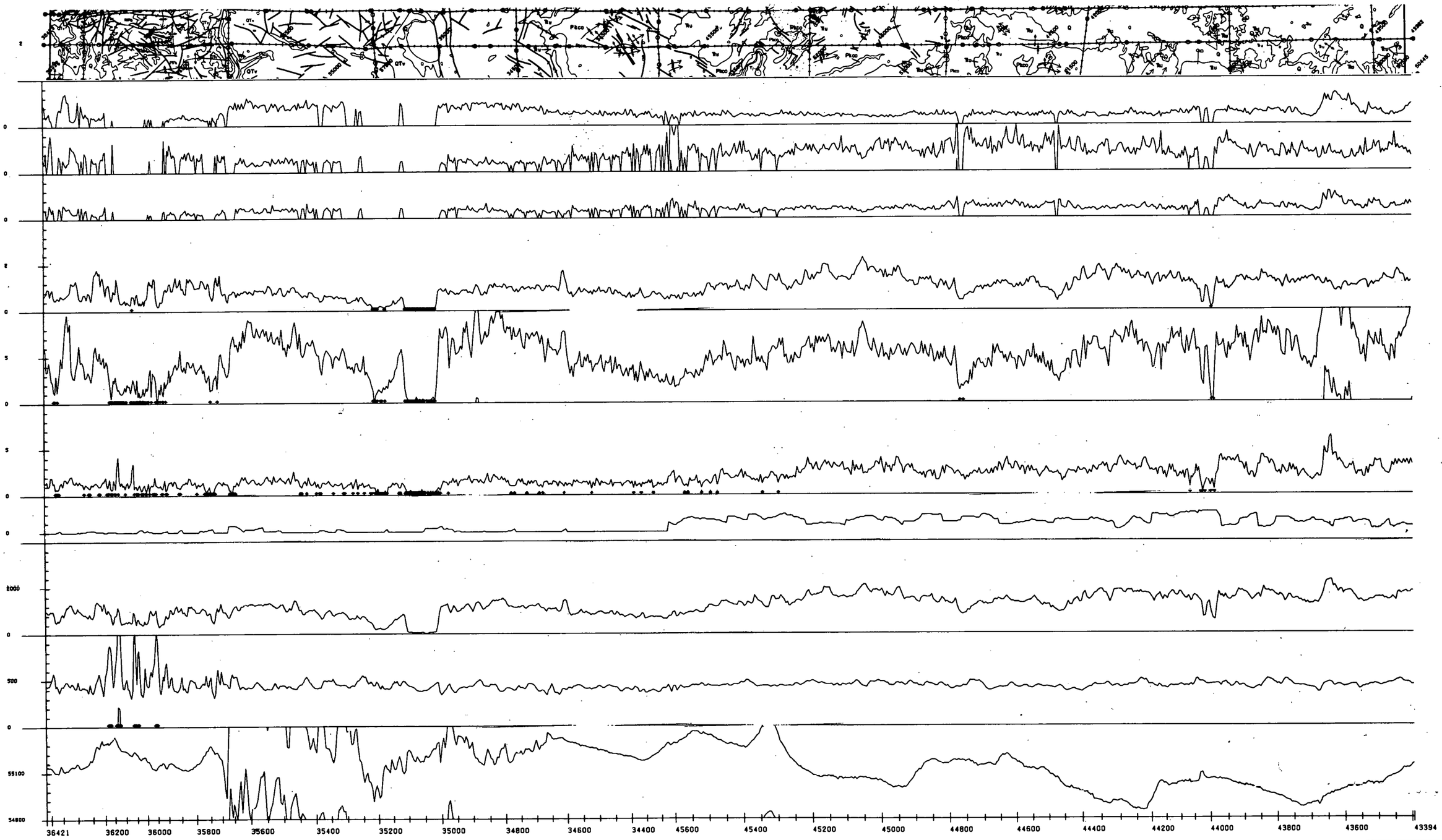
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING OLEN RD.PERKASIE,PA 18944

PREPARED FOR

DEPARTMENT OF ENERGY



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SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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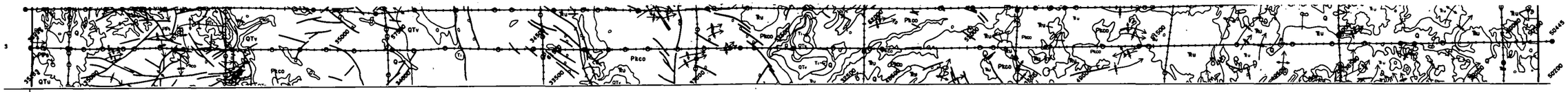

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P 3

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SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

FLAGGED SAMPLE VALUES OF K.U.T INDICATES GAIN FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

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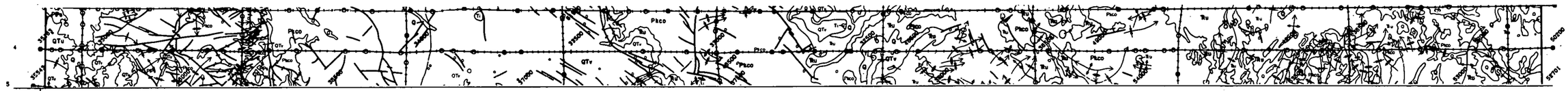

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† FLAGGED SAMPLE VALUES OF K,U,T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

SCALE 1:500,000

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

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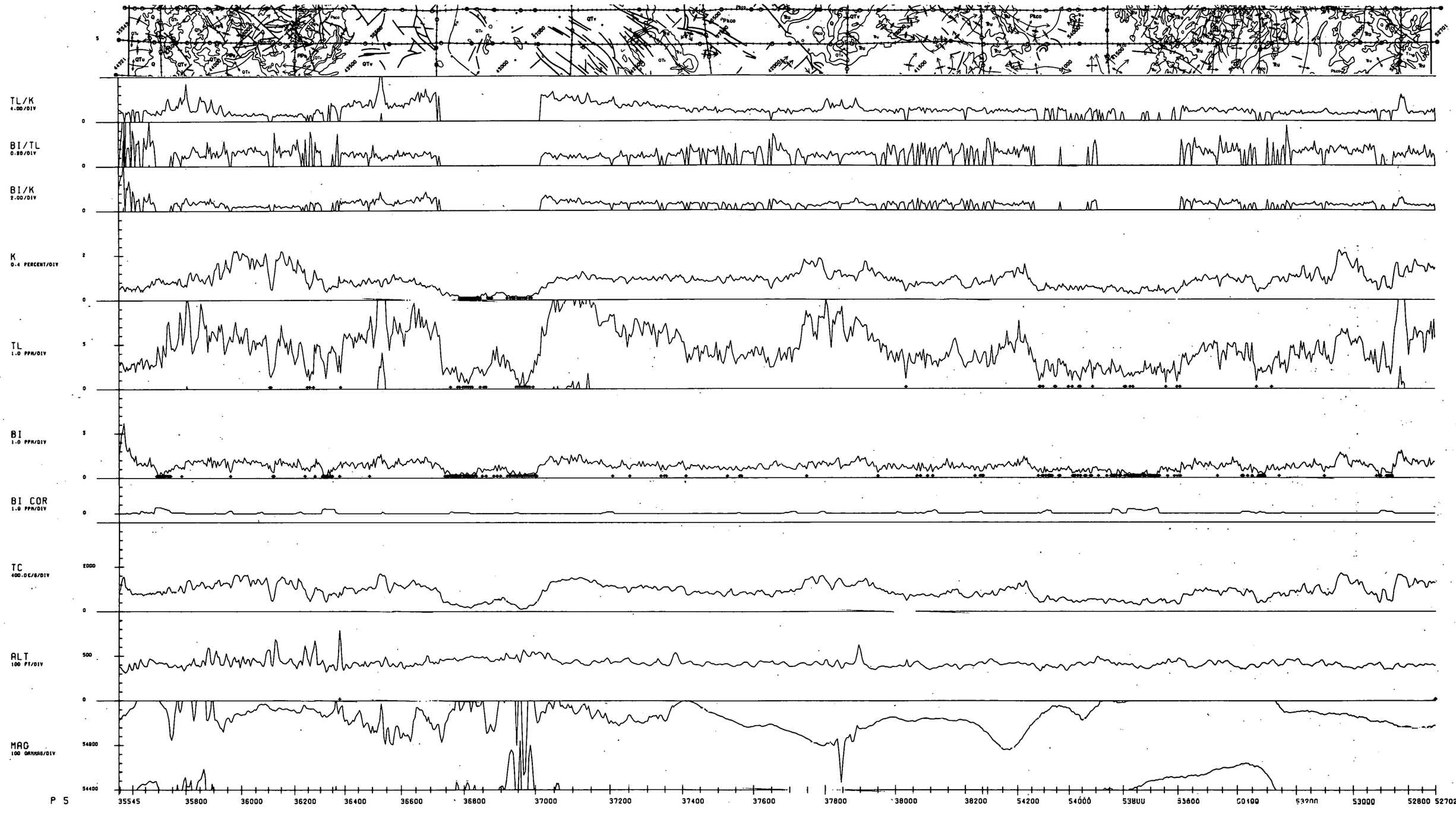

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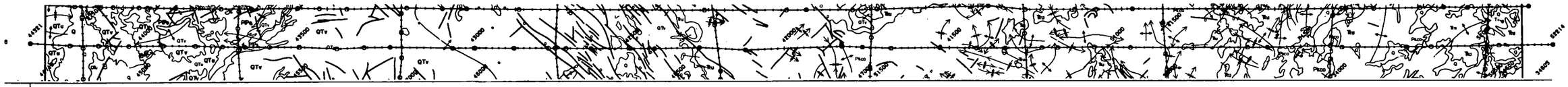

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P 6

FLAGGED SAMPLE VALUES OF R.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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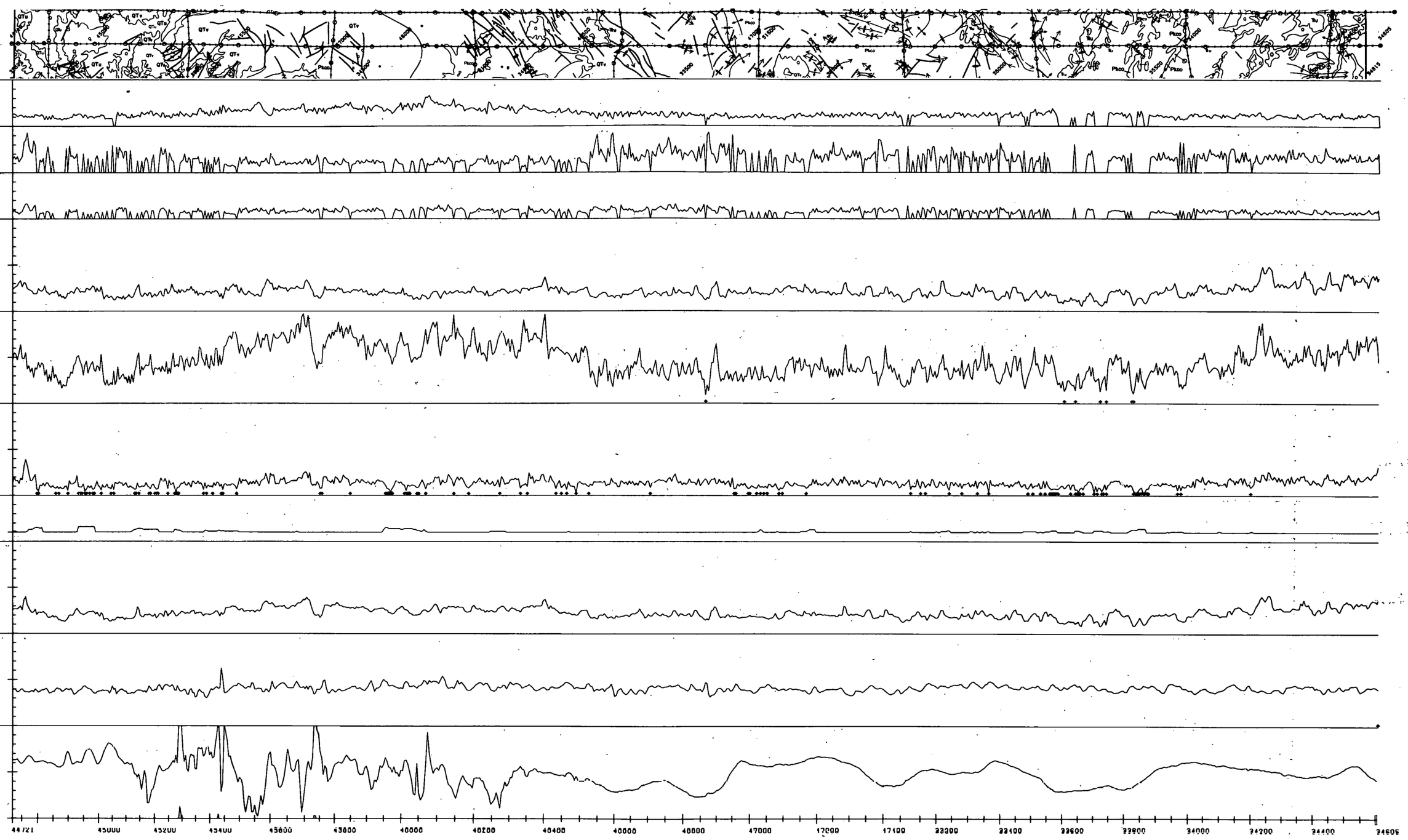

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† FLAGGED SAMPLE VALUES OF K.O.T INDICATES DATA FAILED STATISTICAL ACCURACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

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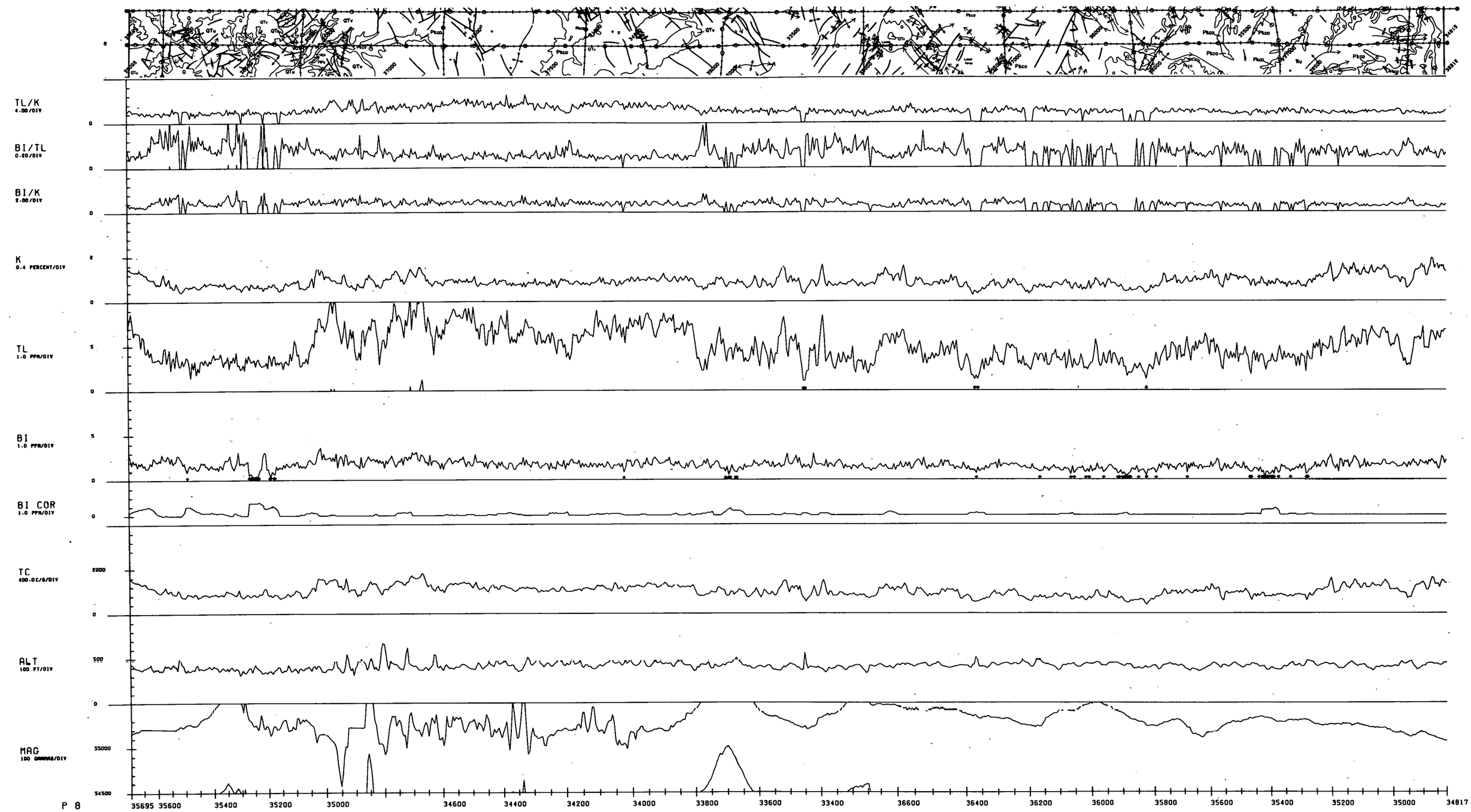

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD.PERKASIE.PA 18944

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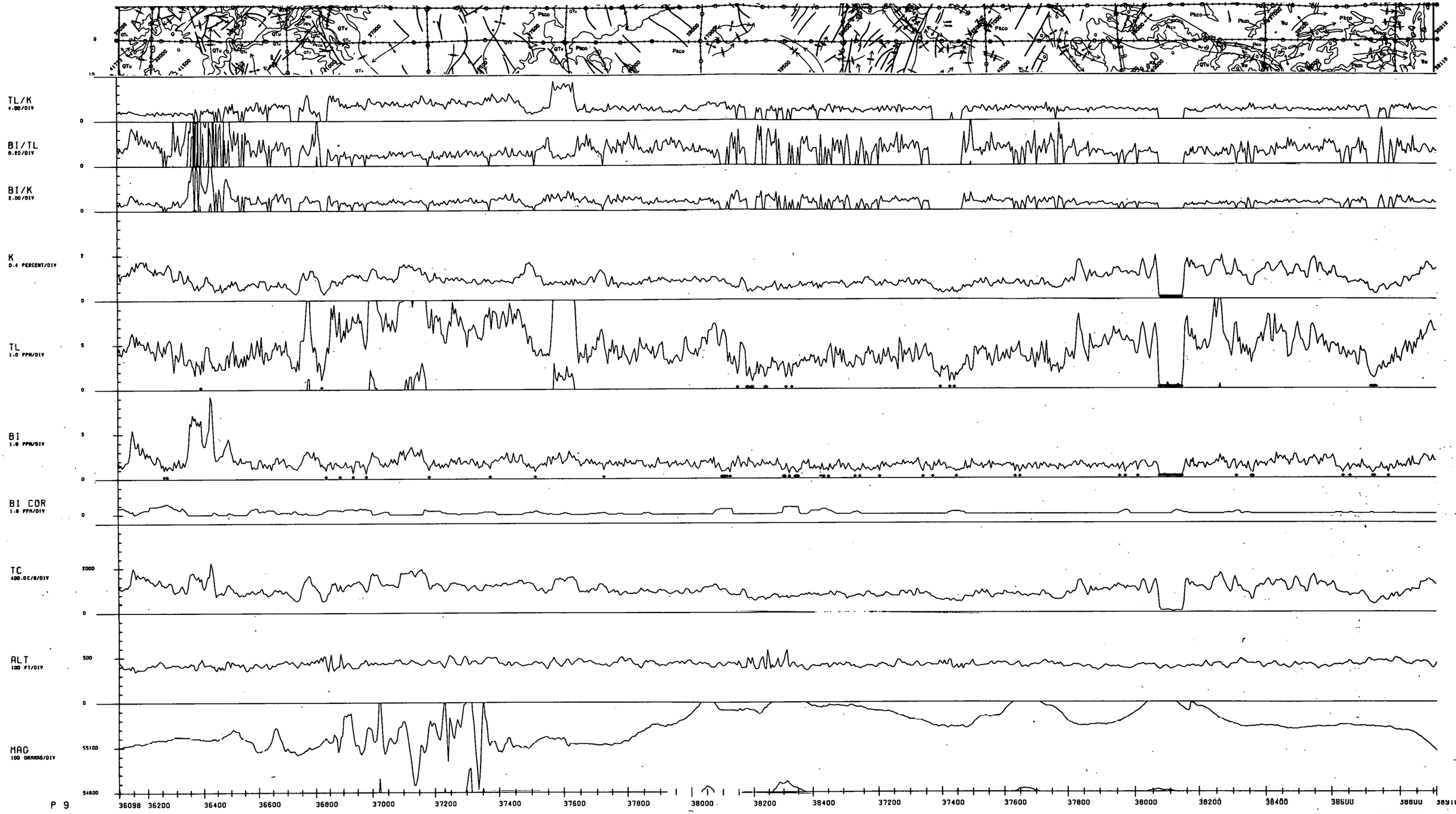

P 9

SCALE 1:500,000

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FLAGGED SAMPLE VALUES OF R.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

BY CARSON HELICOPTERS. INC. 32-M BLOOMING GLEN RD.PERKASIE.PA 18944

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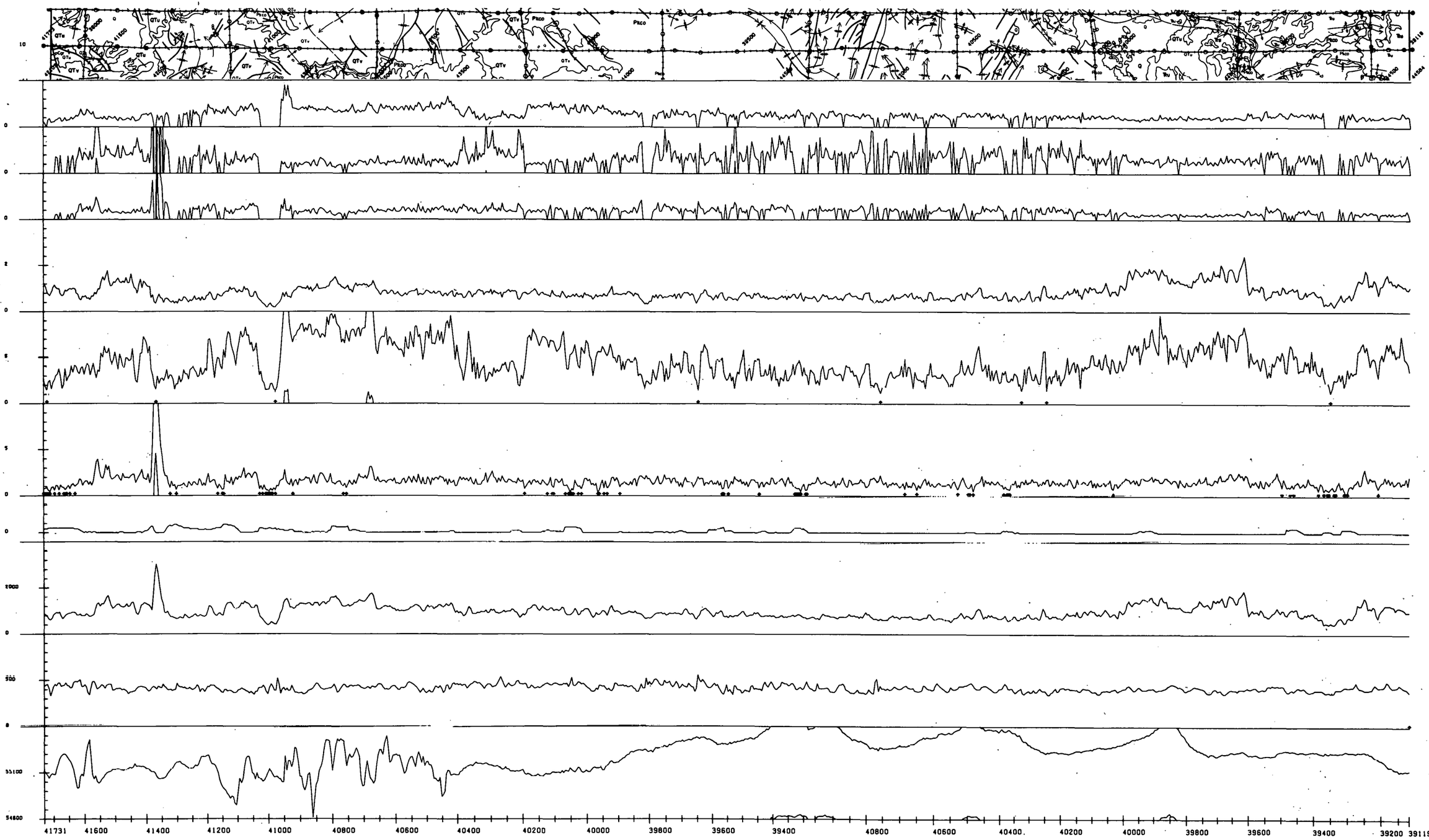

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ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

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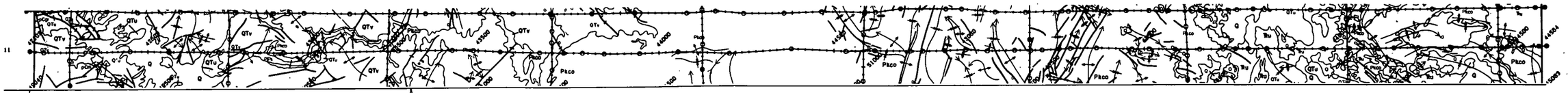

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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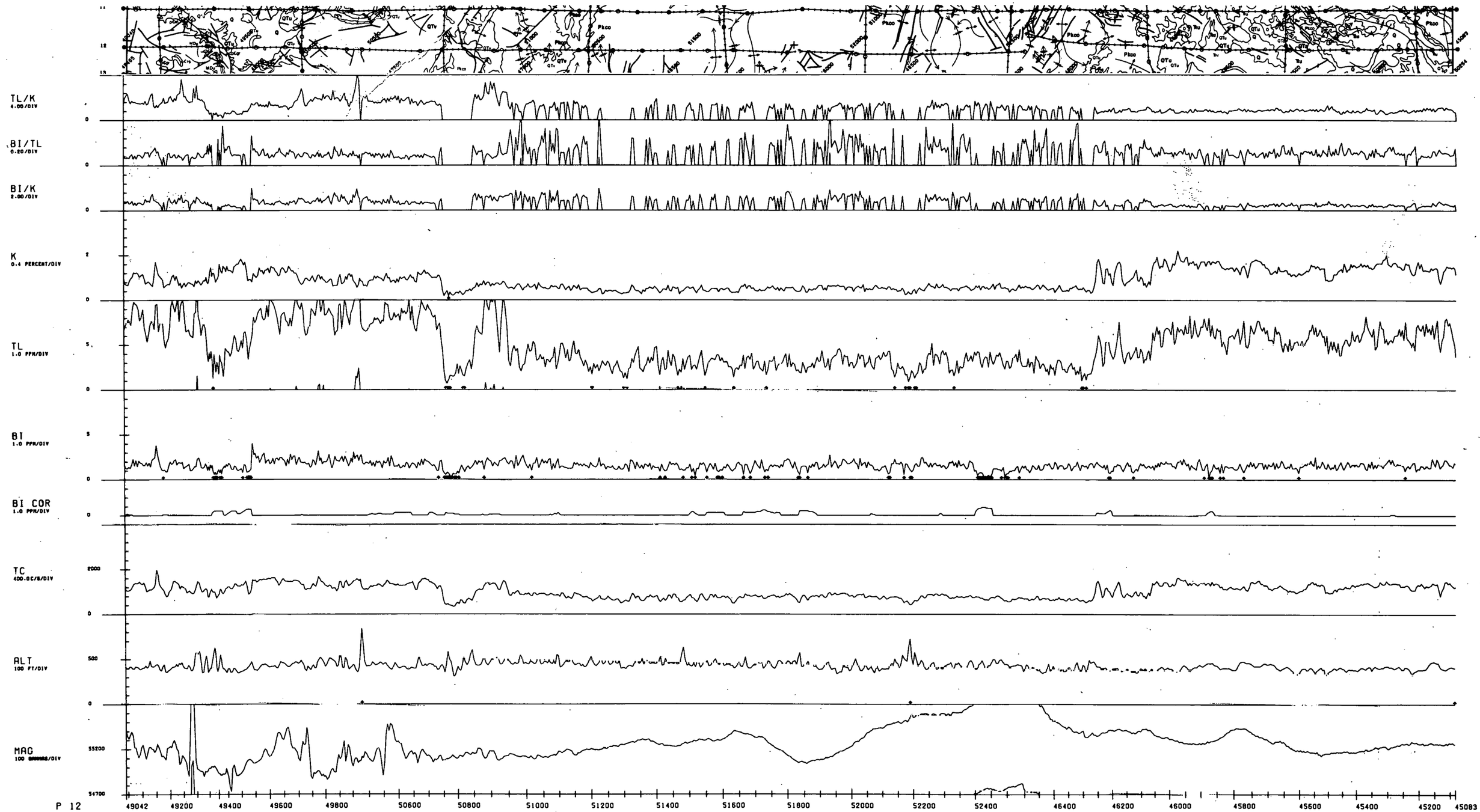

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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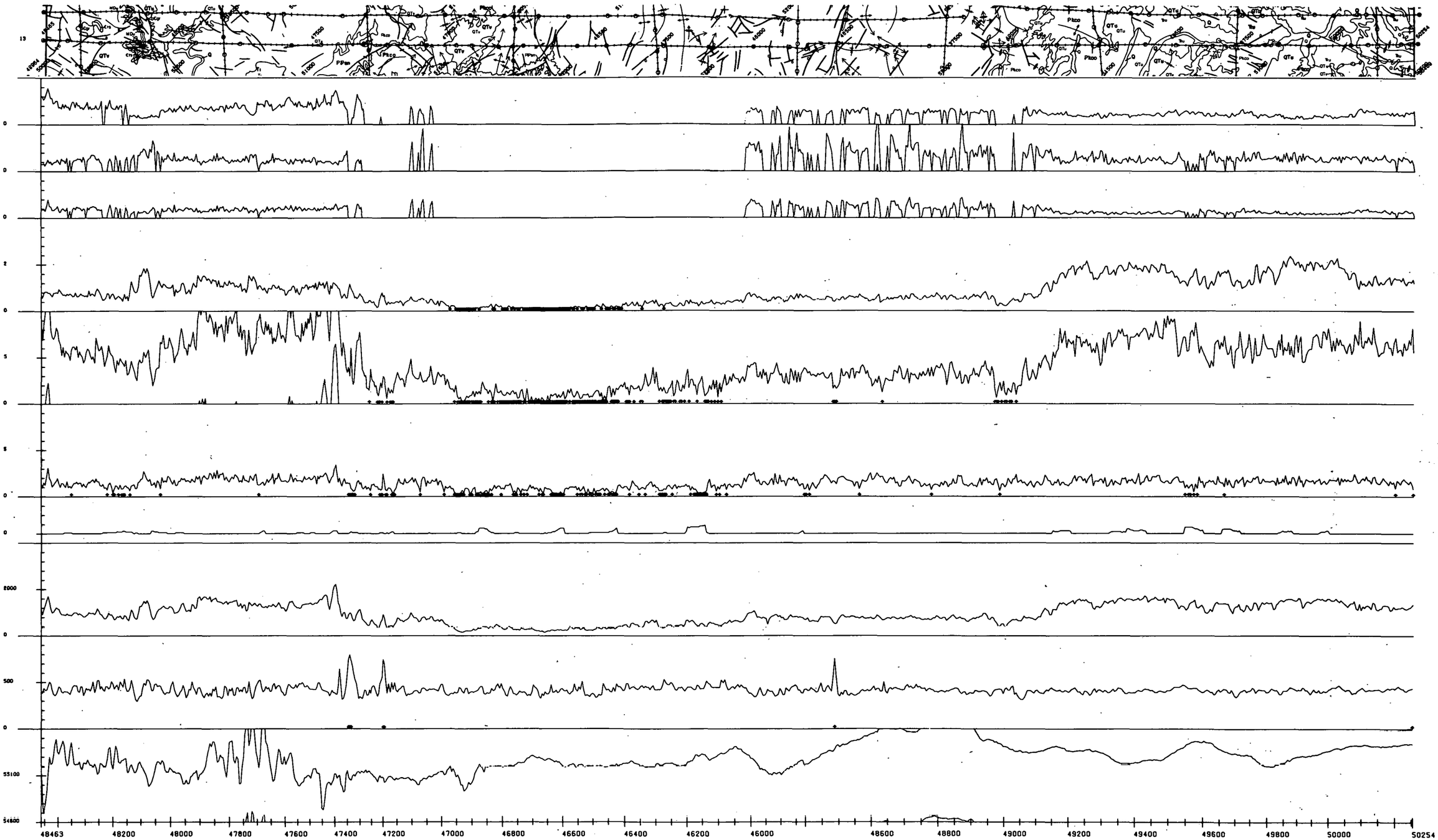

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↑ FLAGGED SAMPLE VALUES OF K.U.T INDICATES DATA FAILED STATISTICAL ANOMALY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

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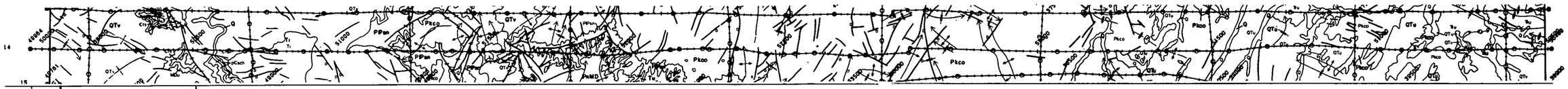

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SCALE 1:500,000

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FLAGGED SAMPLE VALUES OF K.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

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FLAGGED SAMPLE VALUES OF
N.U.T INDICATES DATA FAILED
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NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

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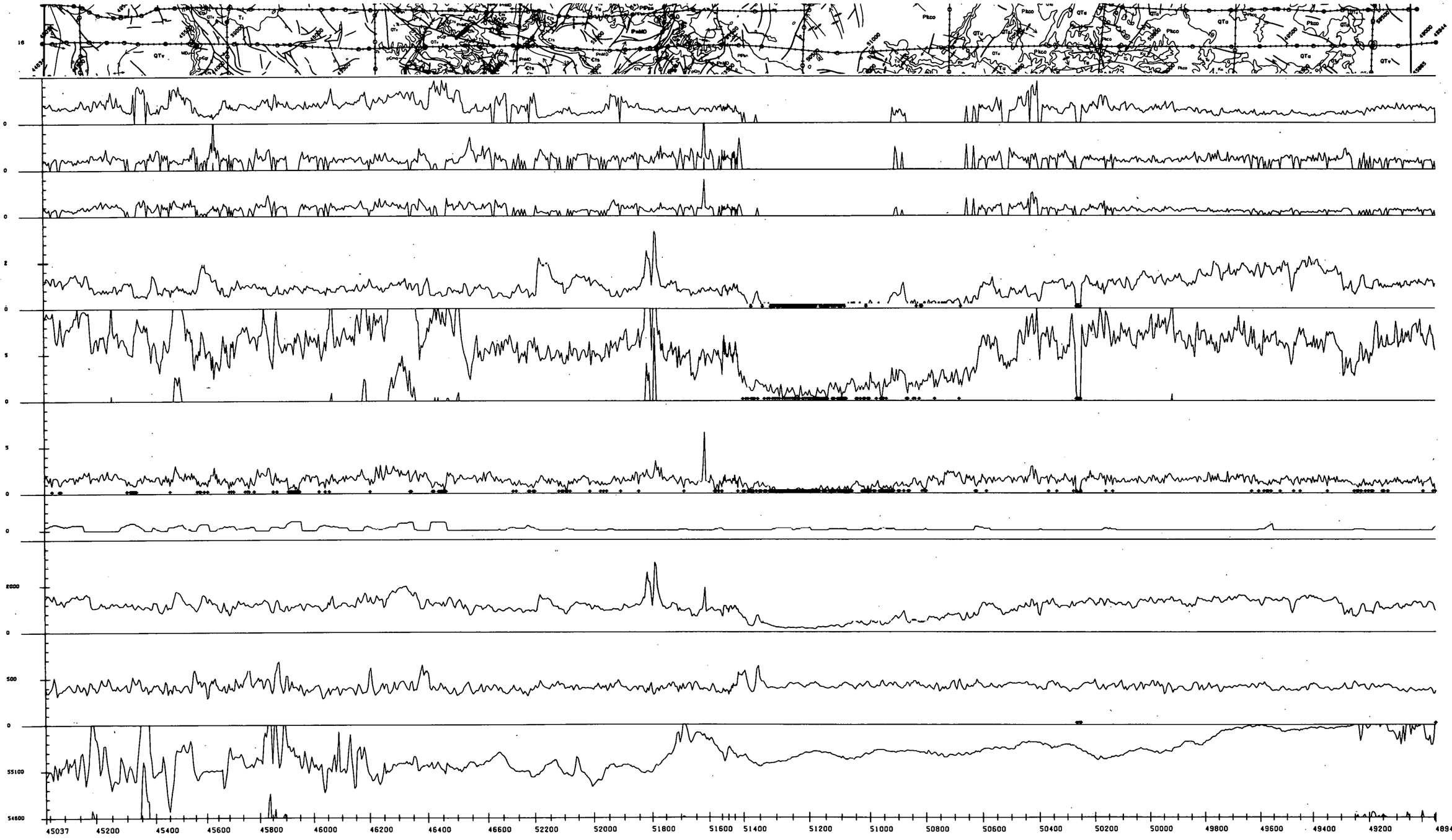

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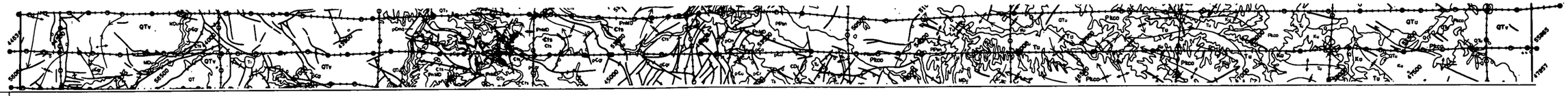

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P 17

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

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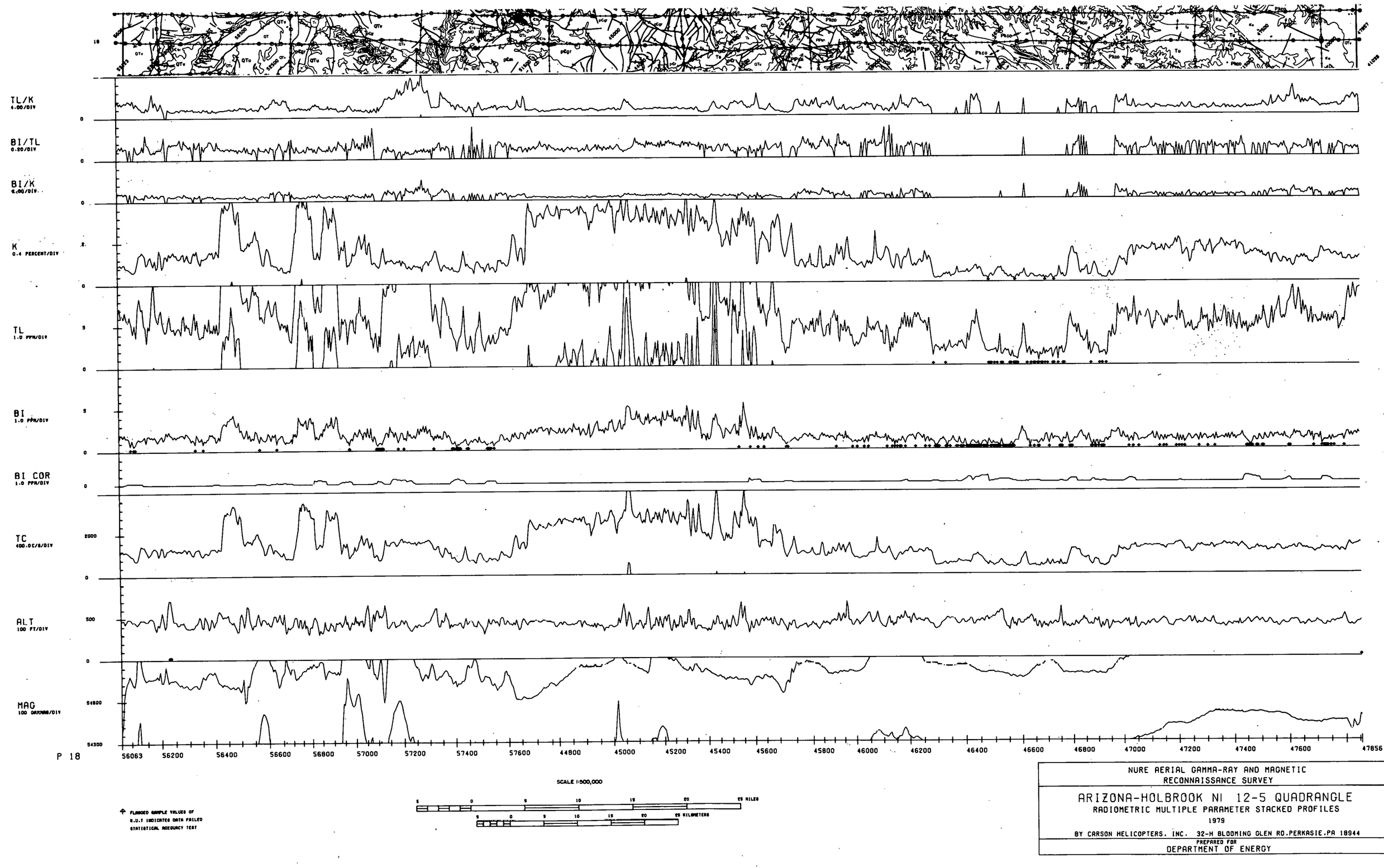

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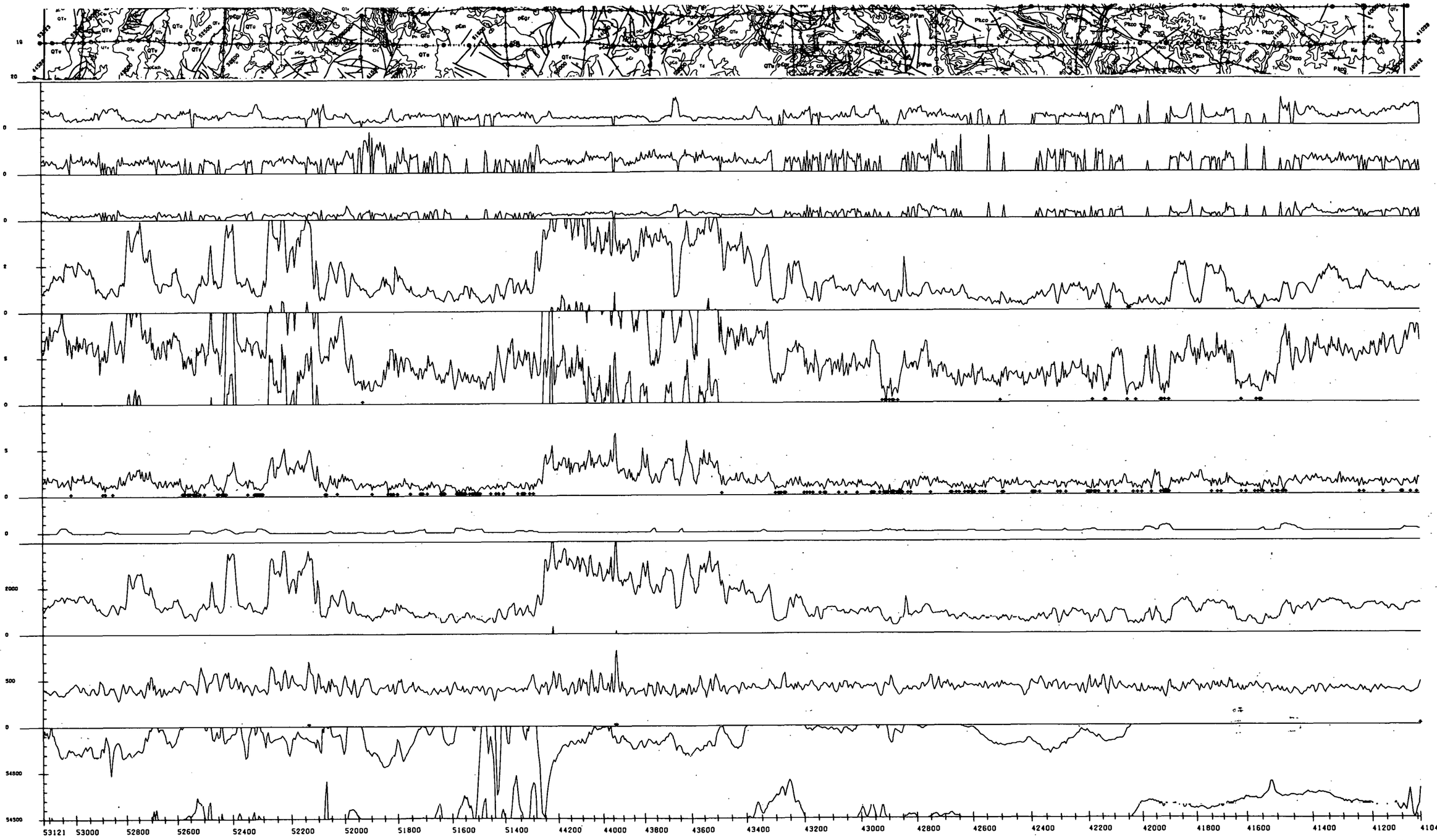

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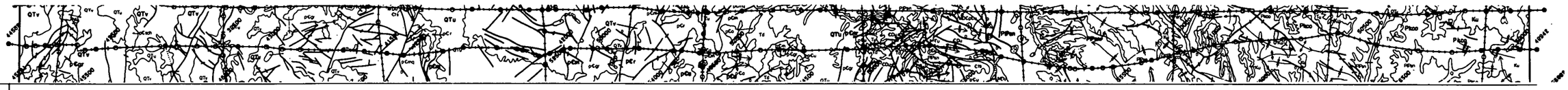

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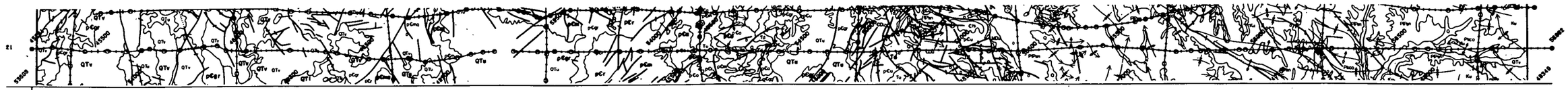

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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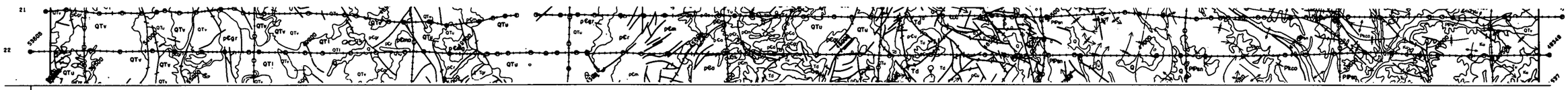

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FLAGGED SAMPLE VALUES OF N.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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1979.

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD.PERKASIE,PA 18944

PREPARED FOR
DEPARTMENT OF ENERGY

TL/K
4.00/DIV

BI/TL
0.20/DIV

BI/K
2.00/DIV

K
0.4 PERCENT/DIV

TL
1.0 PPM/DIV

BI
1.0 PPM/DIV

BI COR
1.0 PPM/DIV

TC
400.0C/S/DIV

ALT
100 FT/DIV

MAG
100 GAMMAS/DIV

P 23

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SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

FLAGGED SAMPLE VALUES OF N.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

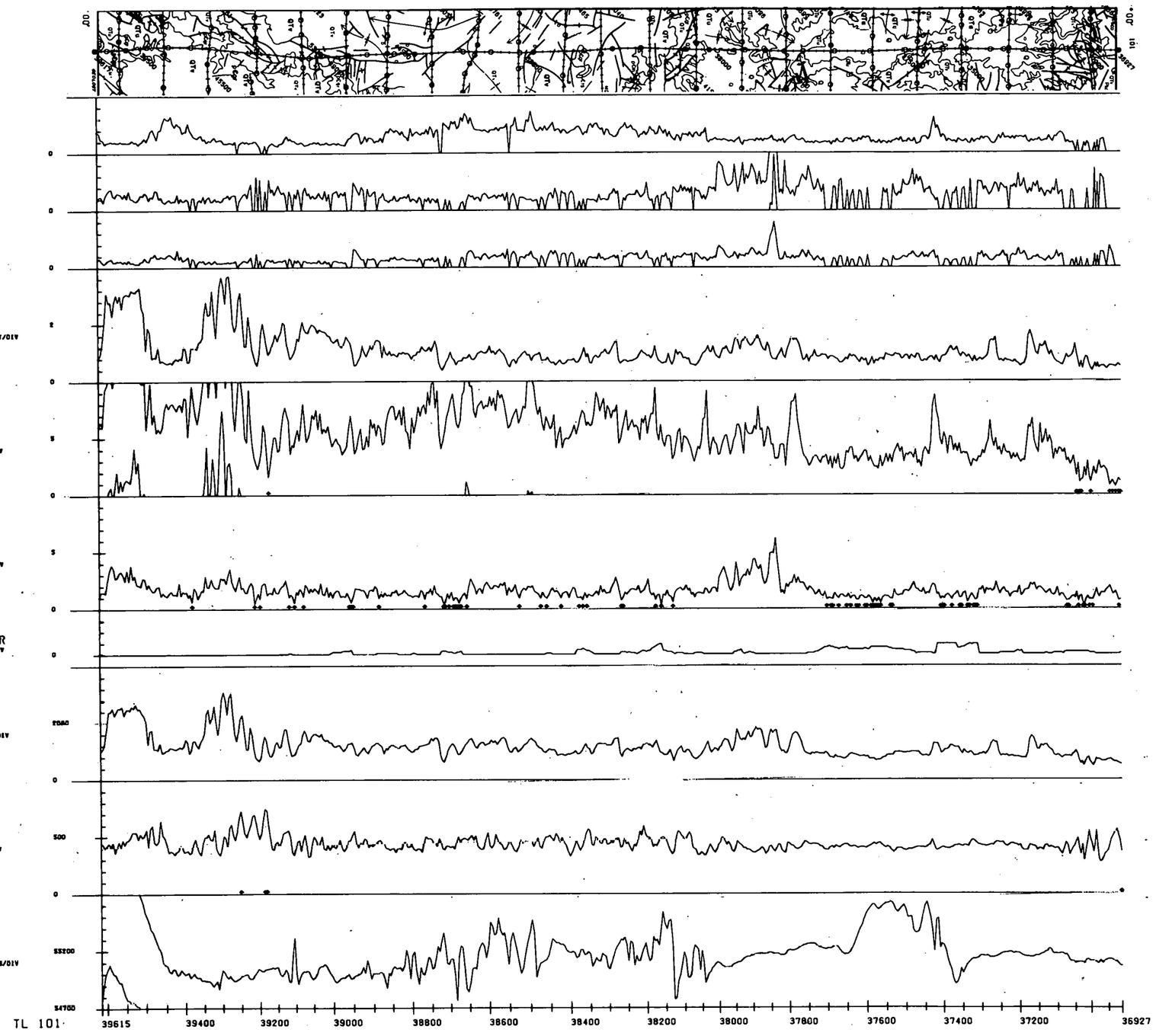
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD.PERKASIE,PA 18944

PREPARED FOR
DEPARTMENT OF ENERGY



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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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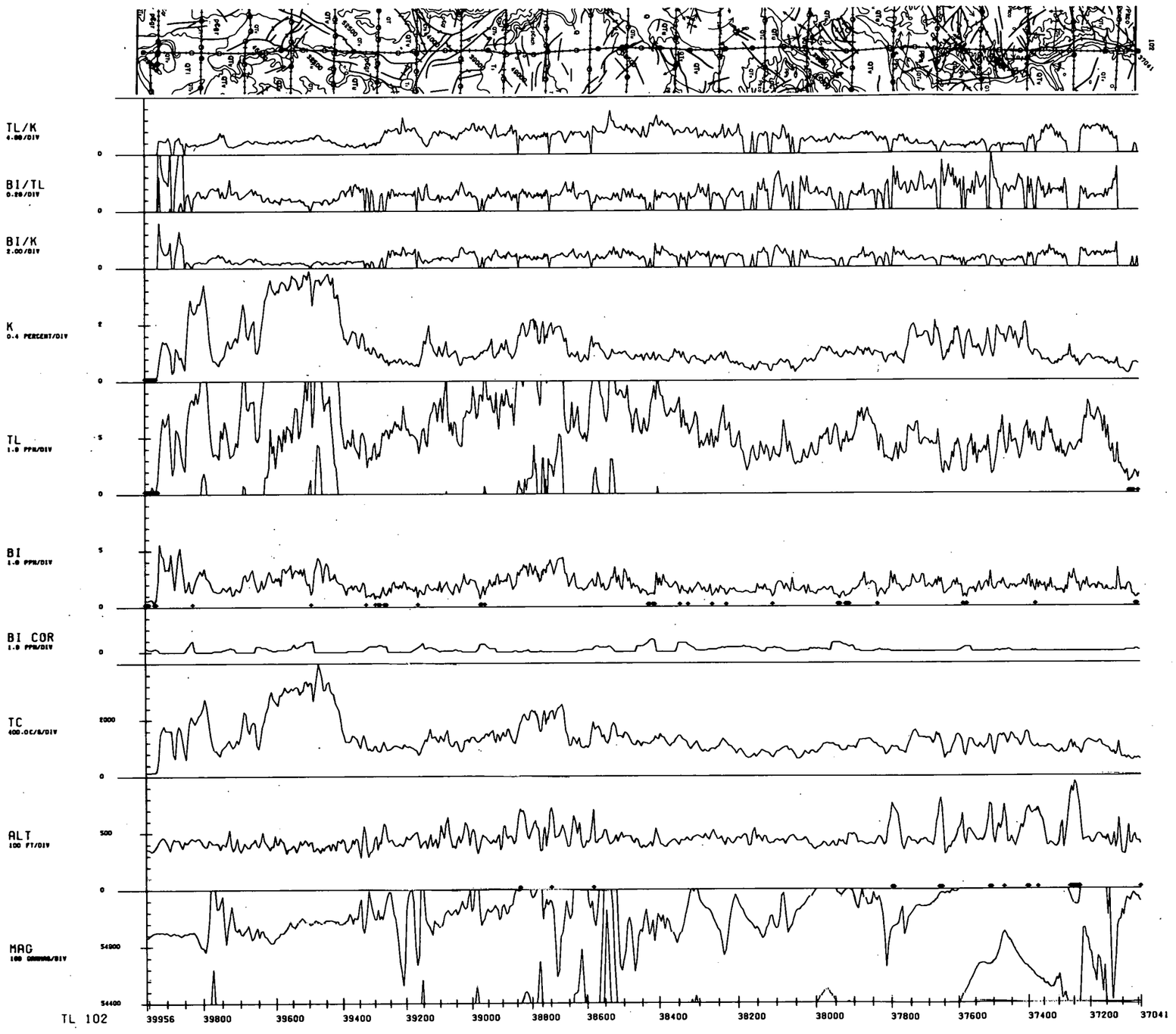

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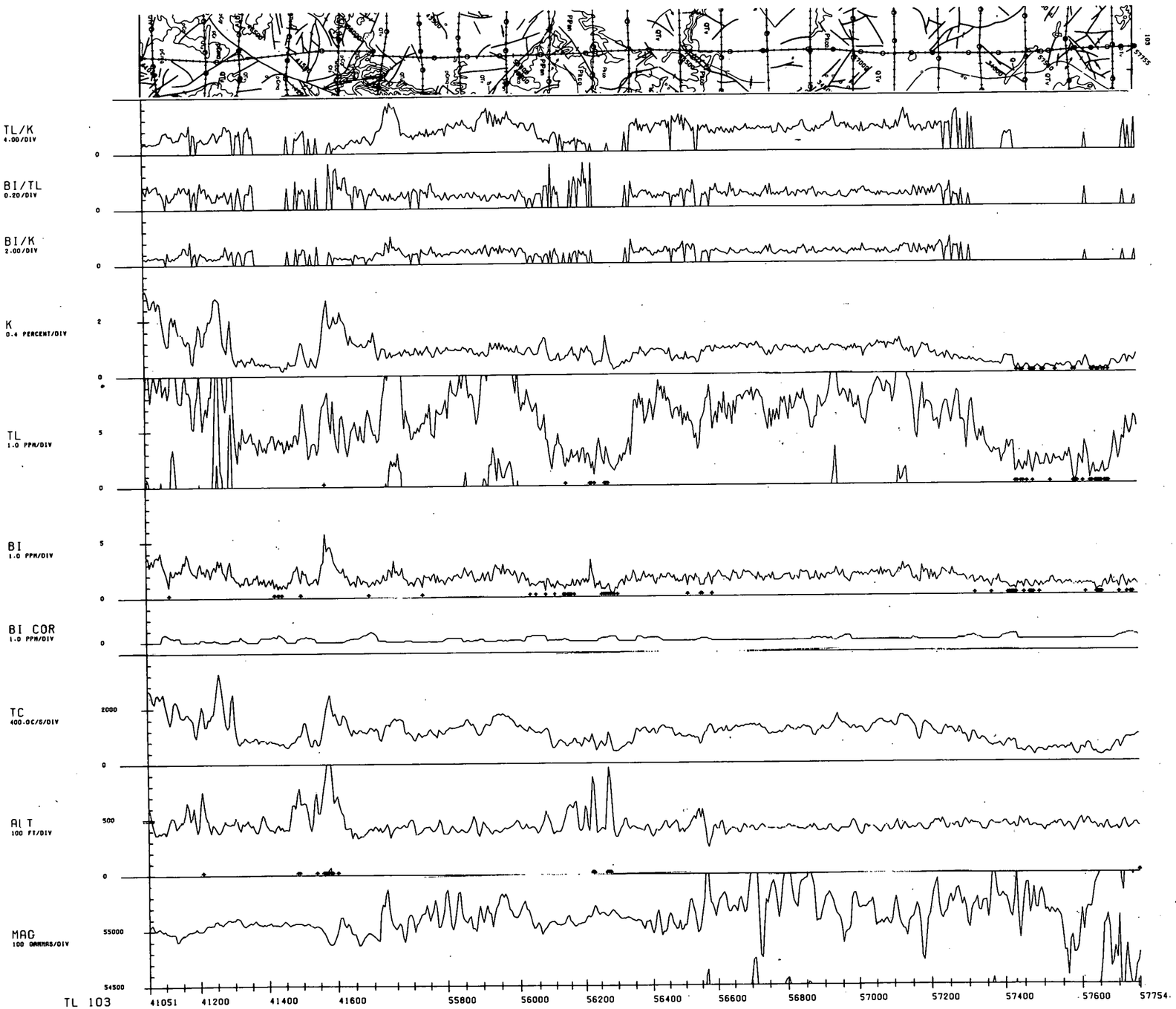

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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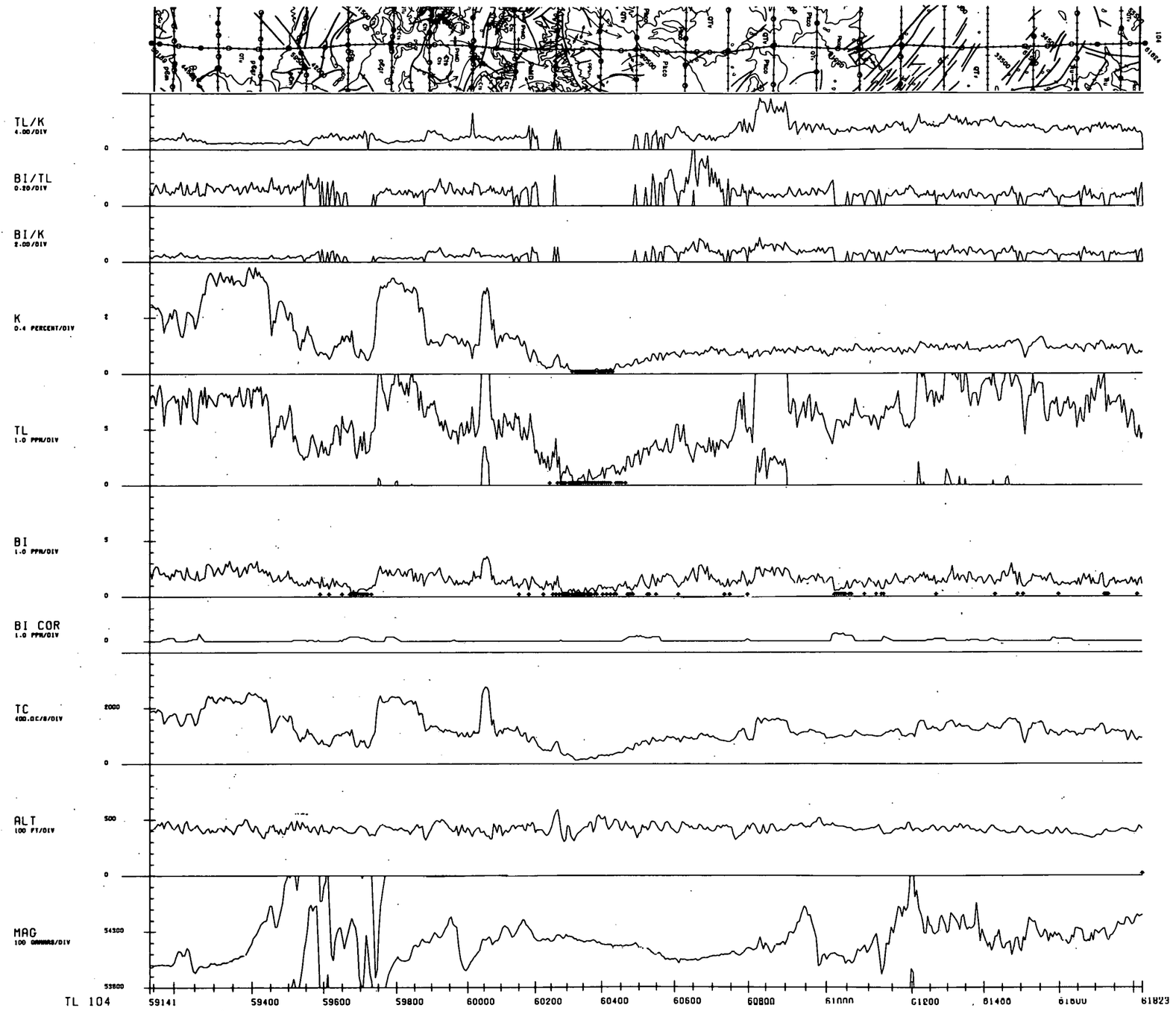

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

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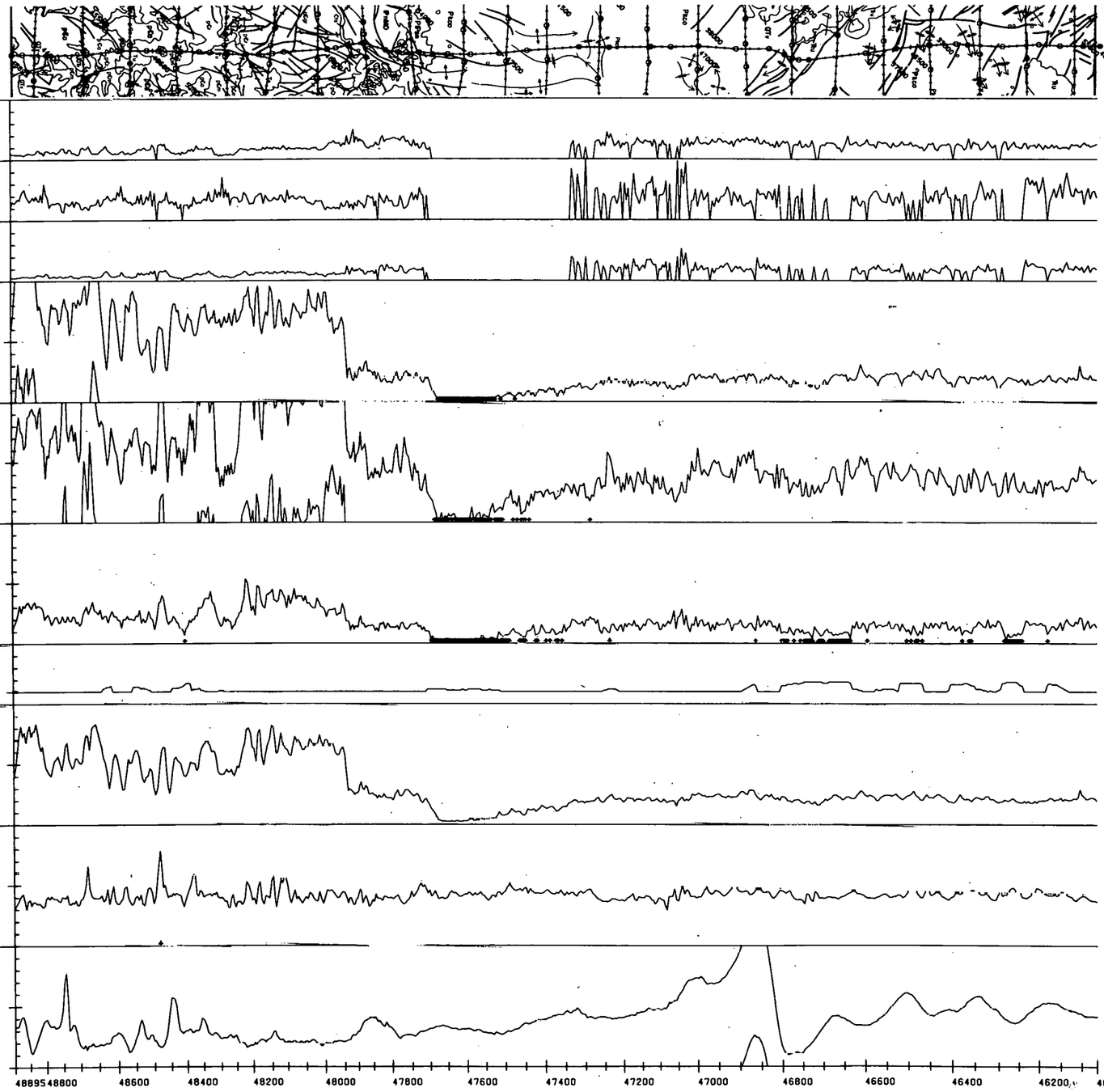

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FLAGGED SAMPLE VALUES OF K.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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1979

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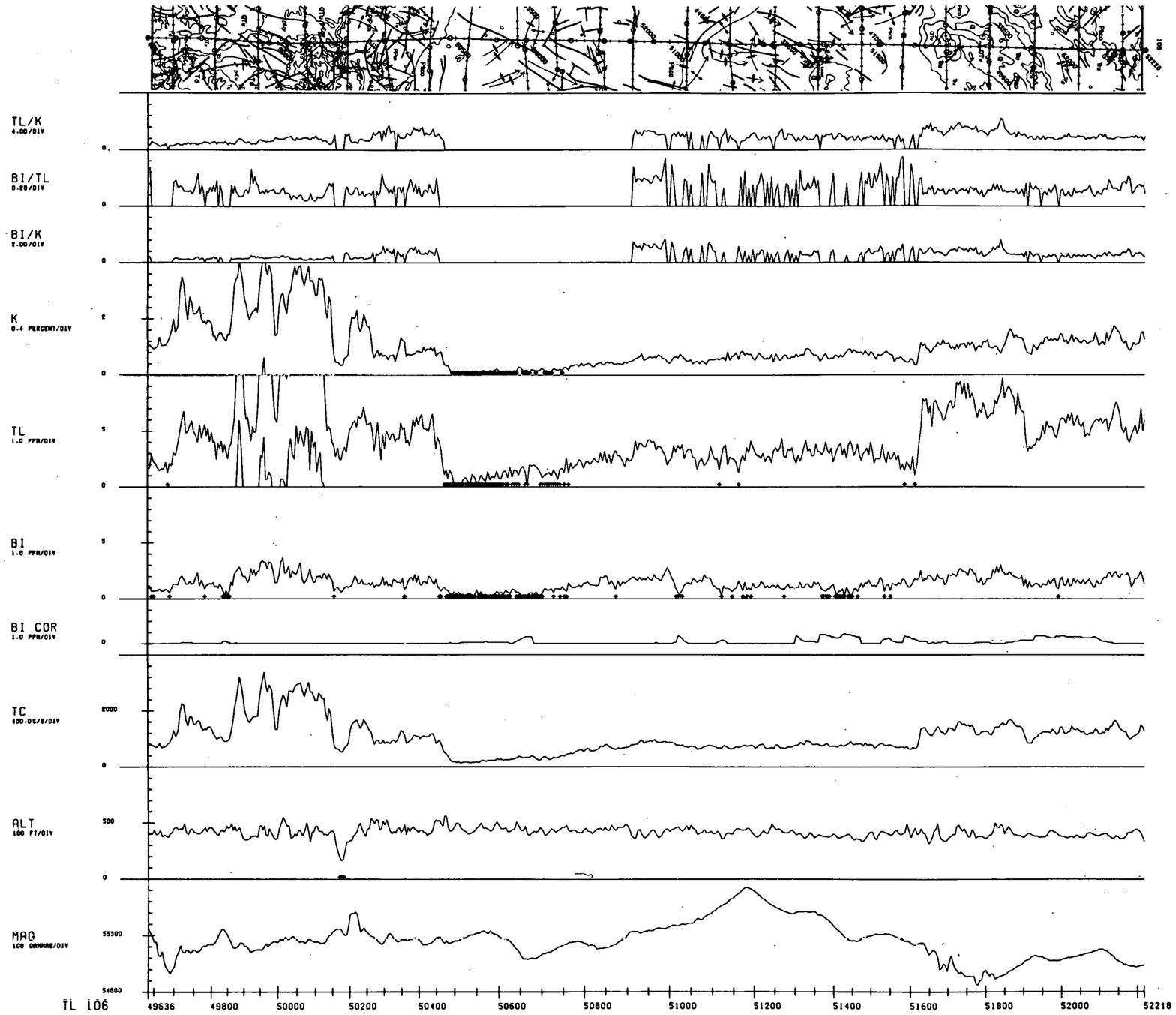

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FLAGGED SAMPLE VALUES OF K.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MUeTIPLE PARAMETER STACKED PROFILES

1979

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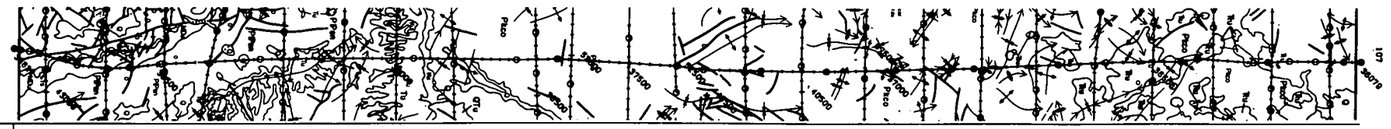

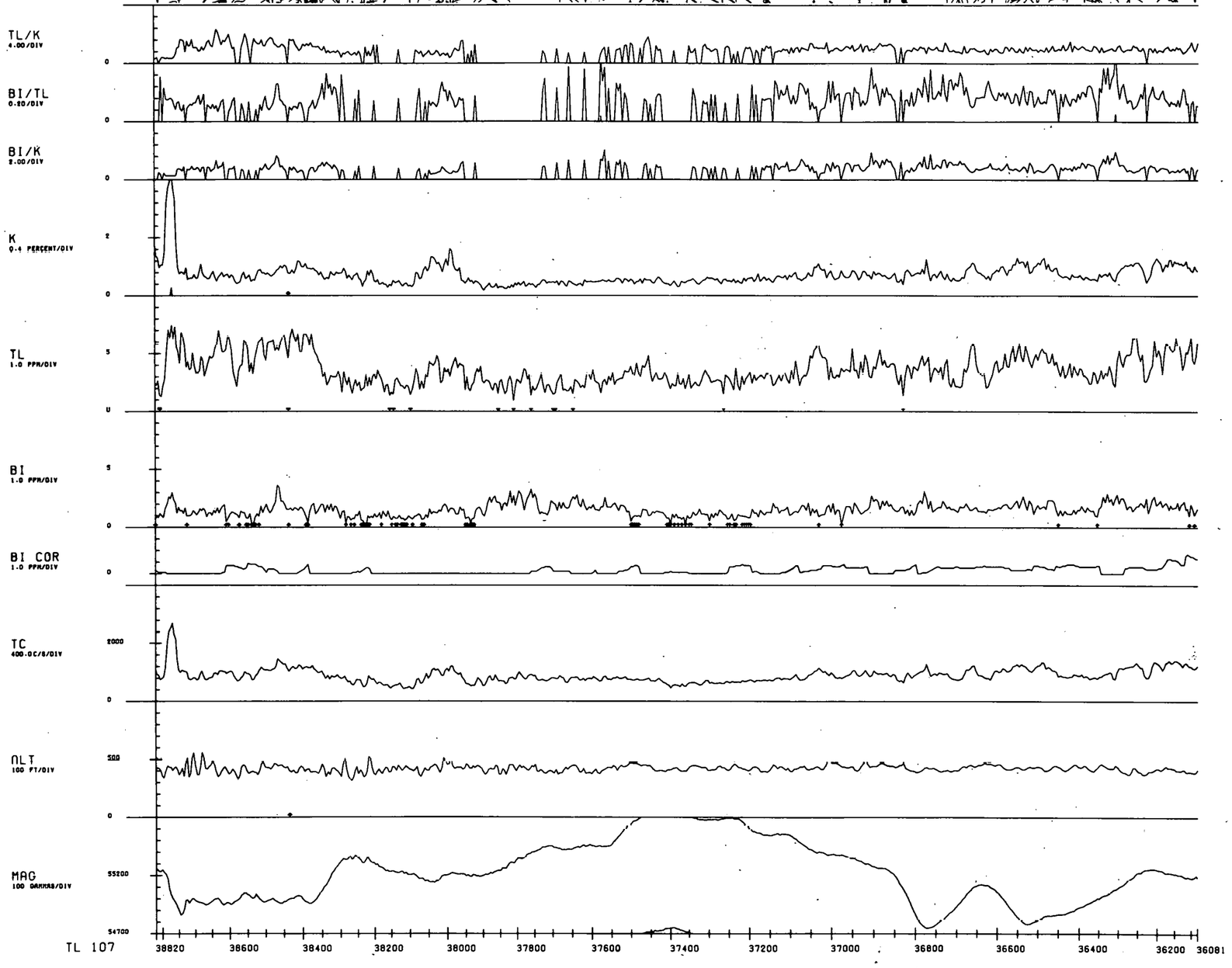

SCALE 1:500,000

FLAGGED SAMPLE VALUES OF 8.U.Y INDICATES DATA FAILED STATISTICAL FREQUENCY TEST

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

1979

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PREPARED FOR

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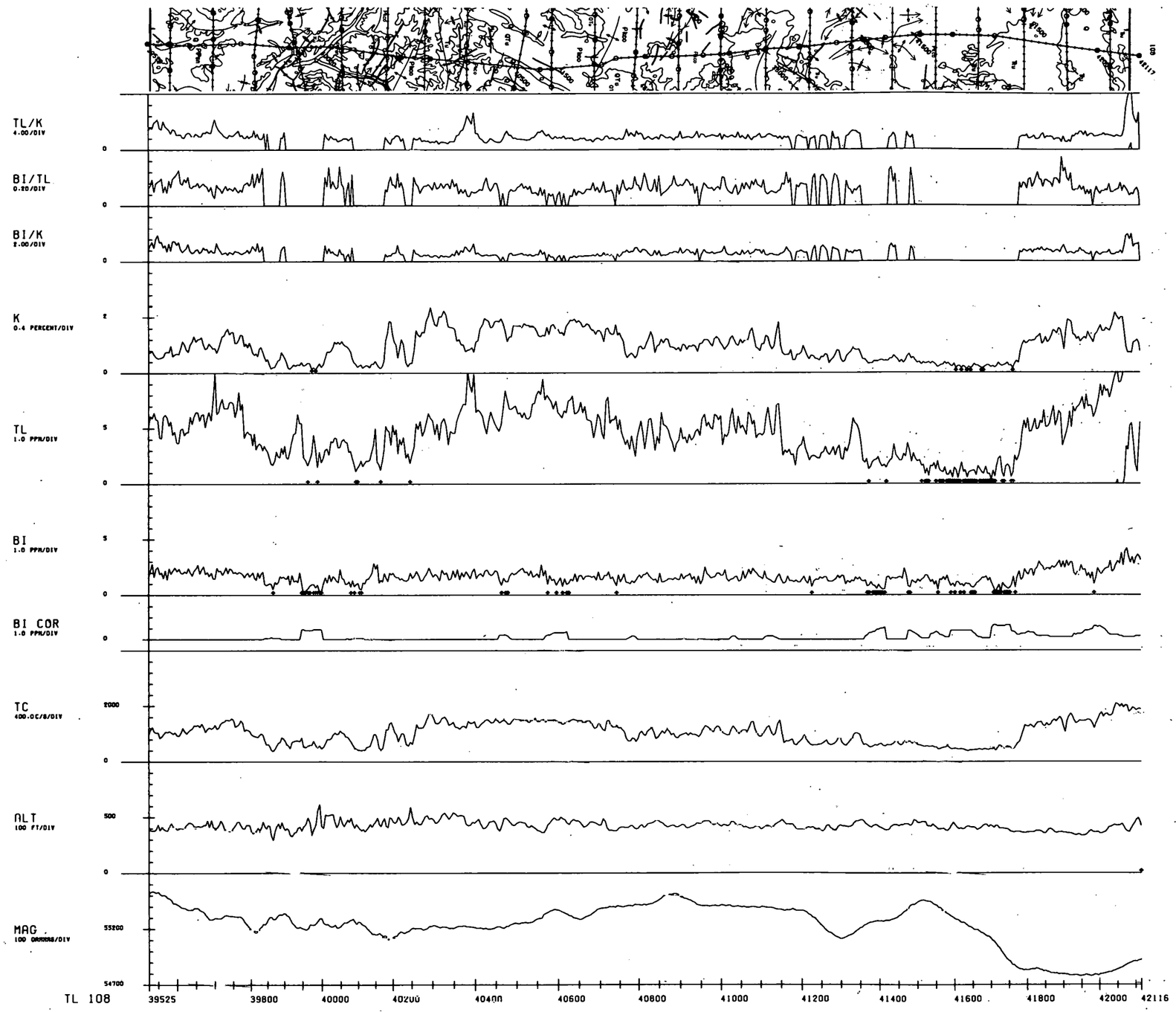

SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

↑ FLAGGED SAMPLE VALUES OF K.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

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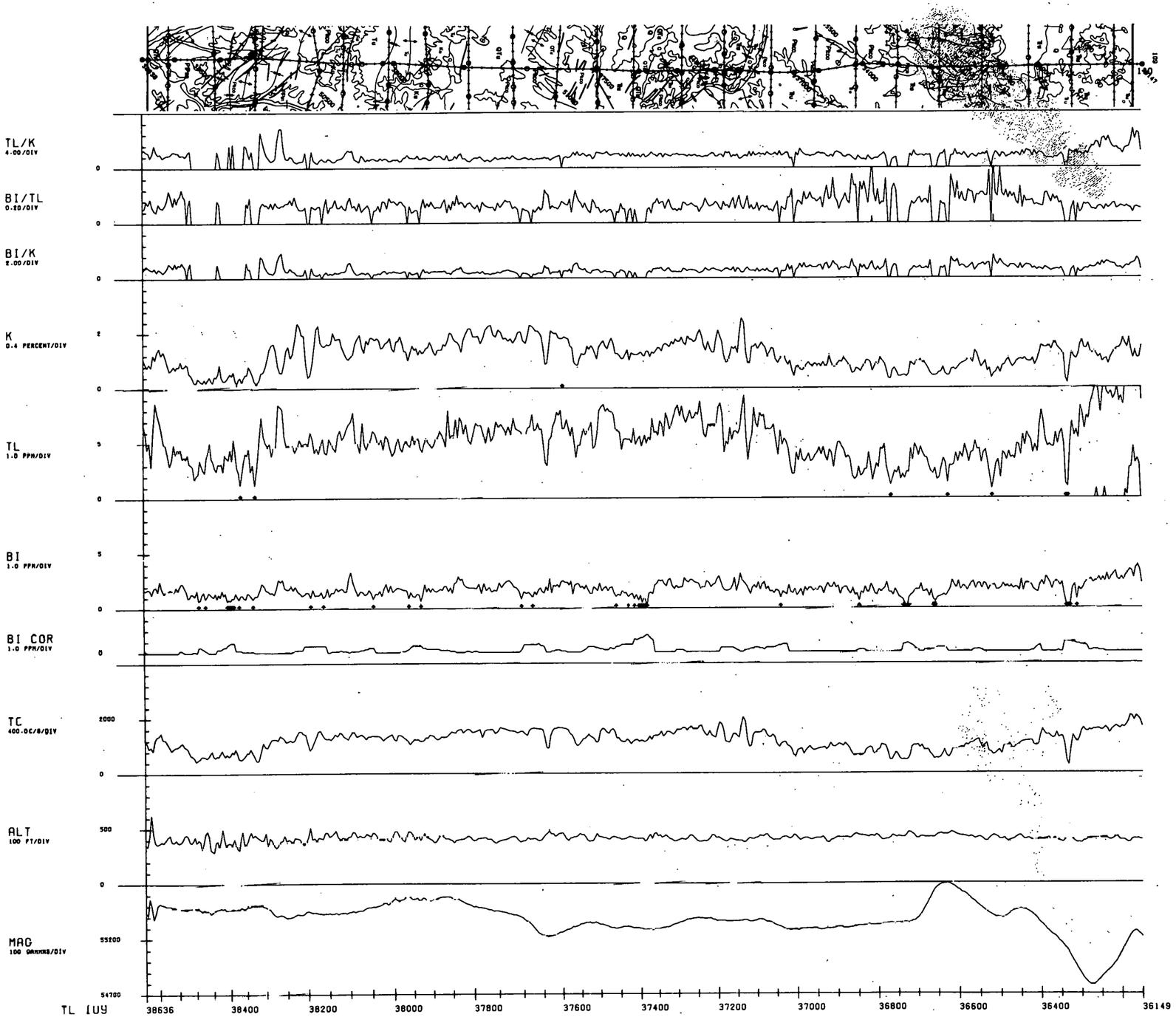

SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

FLAGGED SAMPLE VALUES OF K.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

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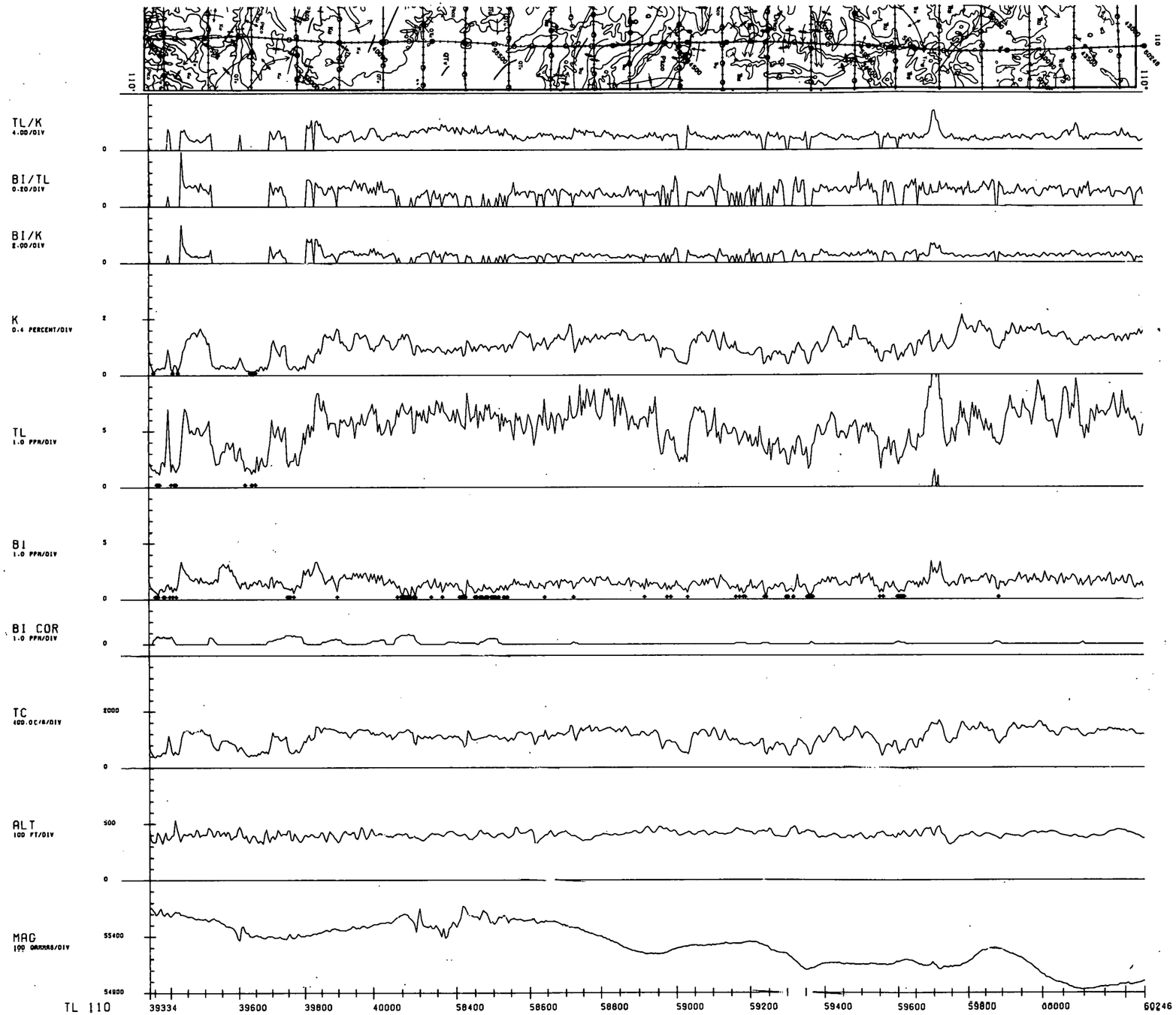

SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

FLAGGED SAMPLE VALUES OF R.U.T INDICATES DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES

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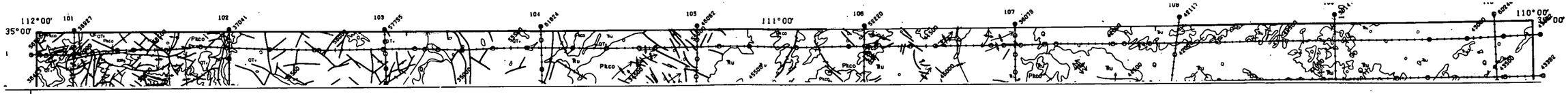

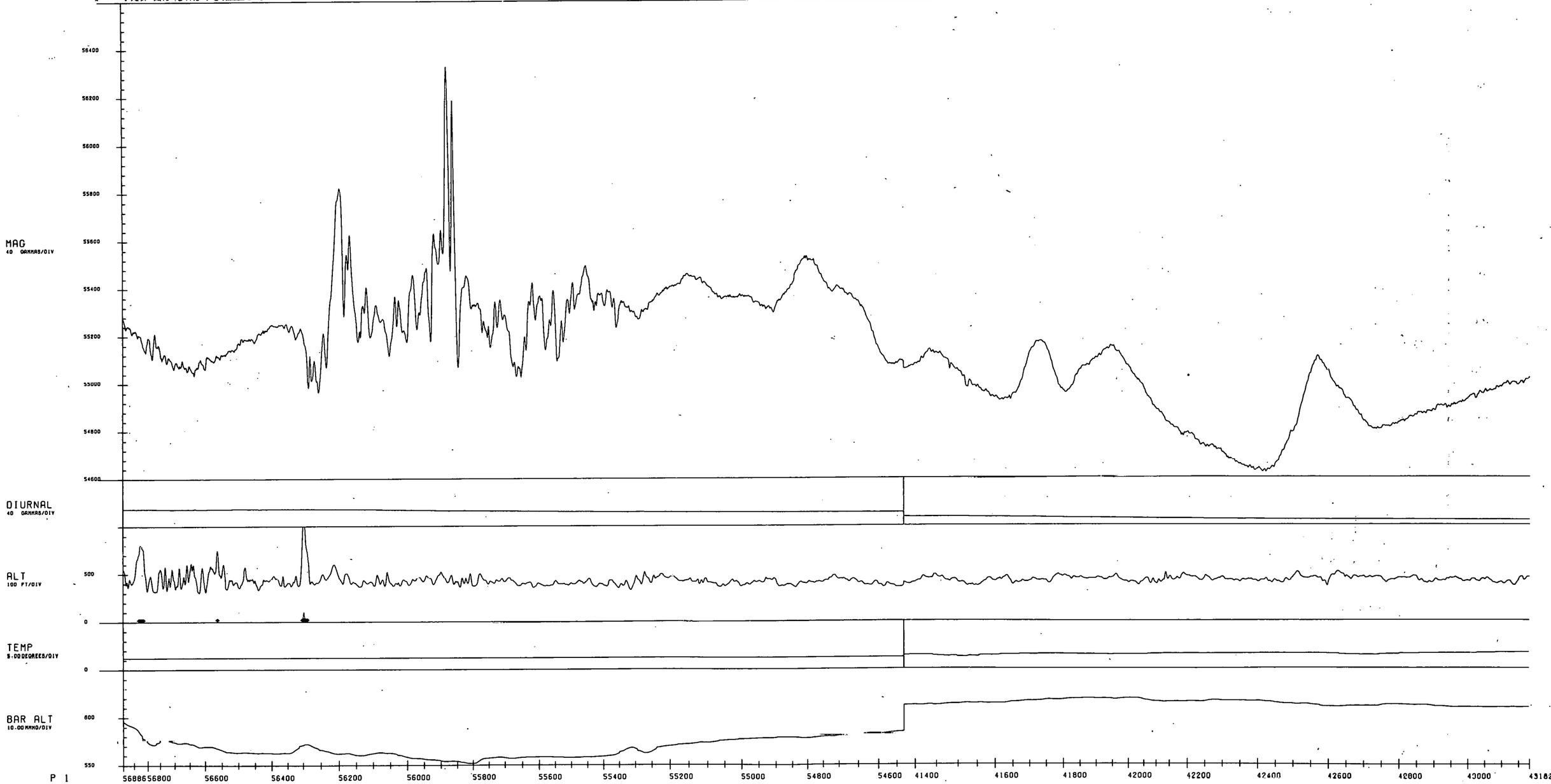

EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD.PERKASIE,PA 18944

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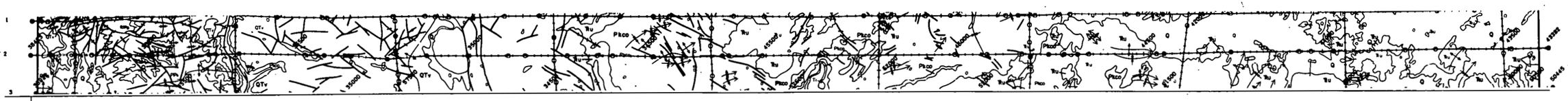
DEPARTMENT OF ENERGY



MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MMHG/DIV

P 2

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

† EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING OLEN RD.PERKASIE,PA 18944

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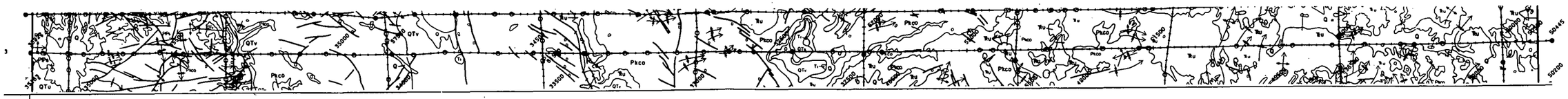

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00DEGREES/DIV

BAR ALT
10.00MMHO/DIV

56280
56080
55880
55680
55480
55280
55080
54880
54680
54480
51160
500
0
0
600
550

P 3

35922 35800 35600 35400 35200 35000 34800 34600 34400 34200 52600 52400 52200 52000 51800 51600 51400 51200 51000 50800 50600 50445

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK, NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD.PERKASIE.PA 18944

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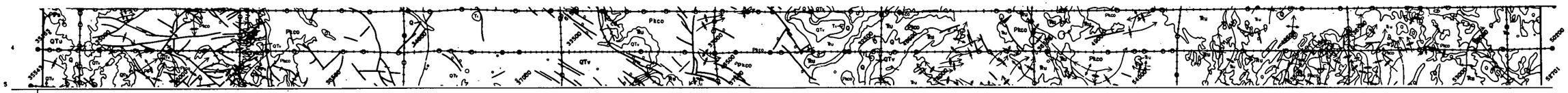
DEPARTMENT OF ENERGY



MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MBAR/DIV

P 4

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

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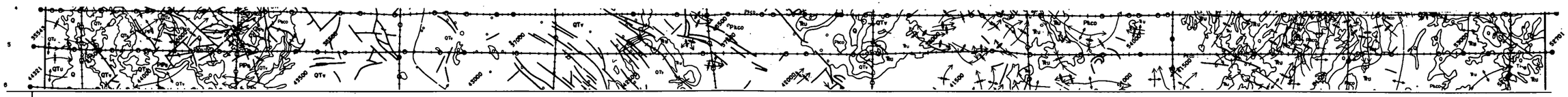

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00DEGREES/DIV

BAR ALT
10.00MMHG/DIV

P 5

↑ EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

8 0 8 16 24 32 40 KILOMETERS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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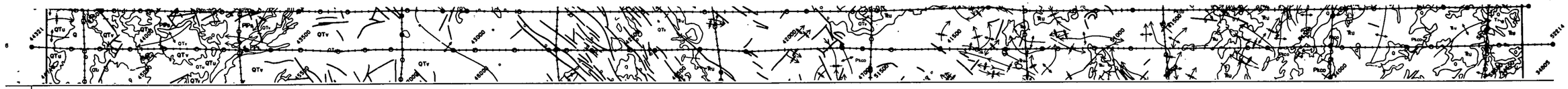

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TFMP
5.00 DEGREES/DIV

BAR ALT
10.00 MMHG/DIV

56520
56320
56120
55920
55720
55520
55320
55120
54920
54720
51400
500
0
0
600
550

44321 44200 44000 43800 43600 43400 43200 43000 42800 42600 42400 42200 42000 41800 41600 41400 50800 51000 51200 51400 51600 51800 52000 52214

P 6

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

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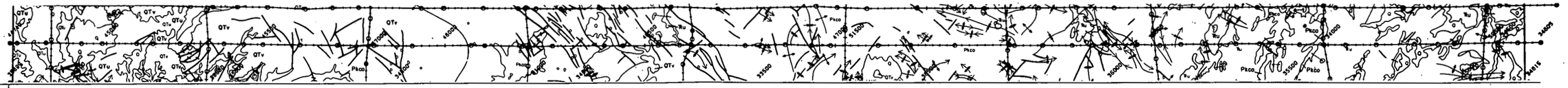

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54920
54720

DIURNAL
40 GAMMAS/DIV

51400

ALT
100 FT/DIV

500
0

TEMP
5.00DEGREES/DIV

0

BAR ALT
10.00MMHG/DIV

600
550

P 7

44719 44800 45000 45200 45400 45600 45800 46000 46200 46400 46600 46800 47000 47200 47400 33200 33400 33600 33800 34000 34200 34400 34605

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

EXCEEDS ALTITUDE SPECIFICATIONS

NURF AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

1979

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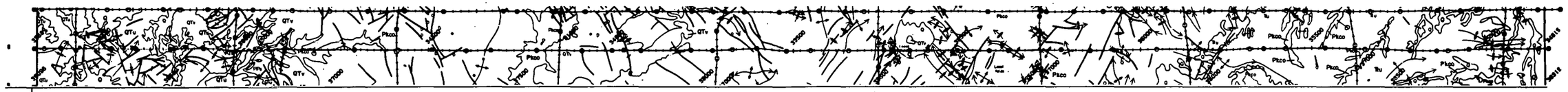

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40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MMHG/DIV

56360
56160
55960
55760
55560
55360
55160
54960
54760
54560
51400
500
0
0
600
550

P 8

35697 35600 35400 35200 35000 34600 34400 34200 34000 33800 33600 33400 36600 36400 36200 36000 35800 35600 35400 35200 35000 34815

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

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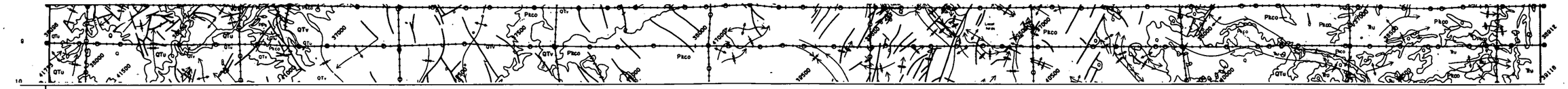

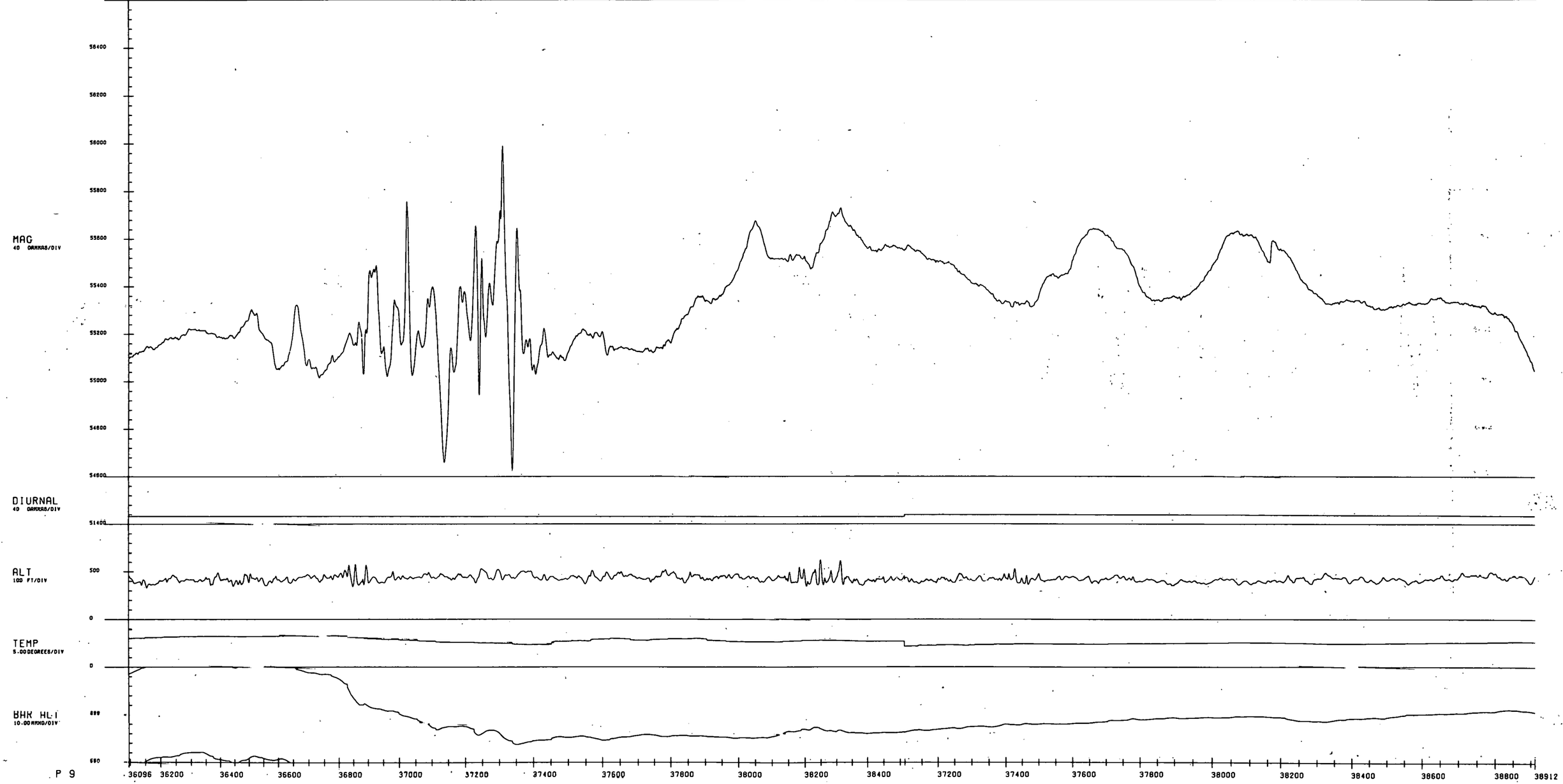

P 9

↑ EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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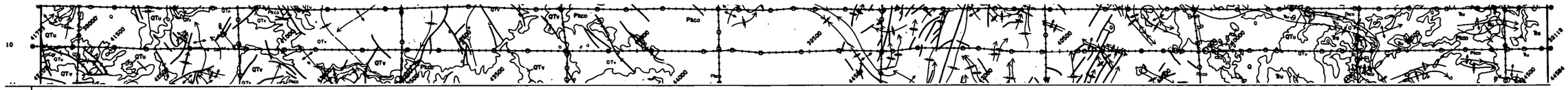

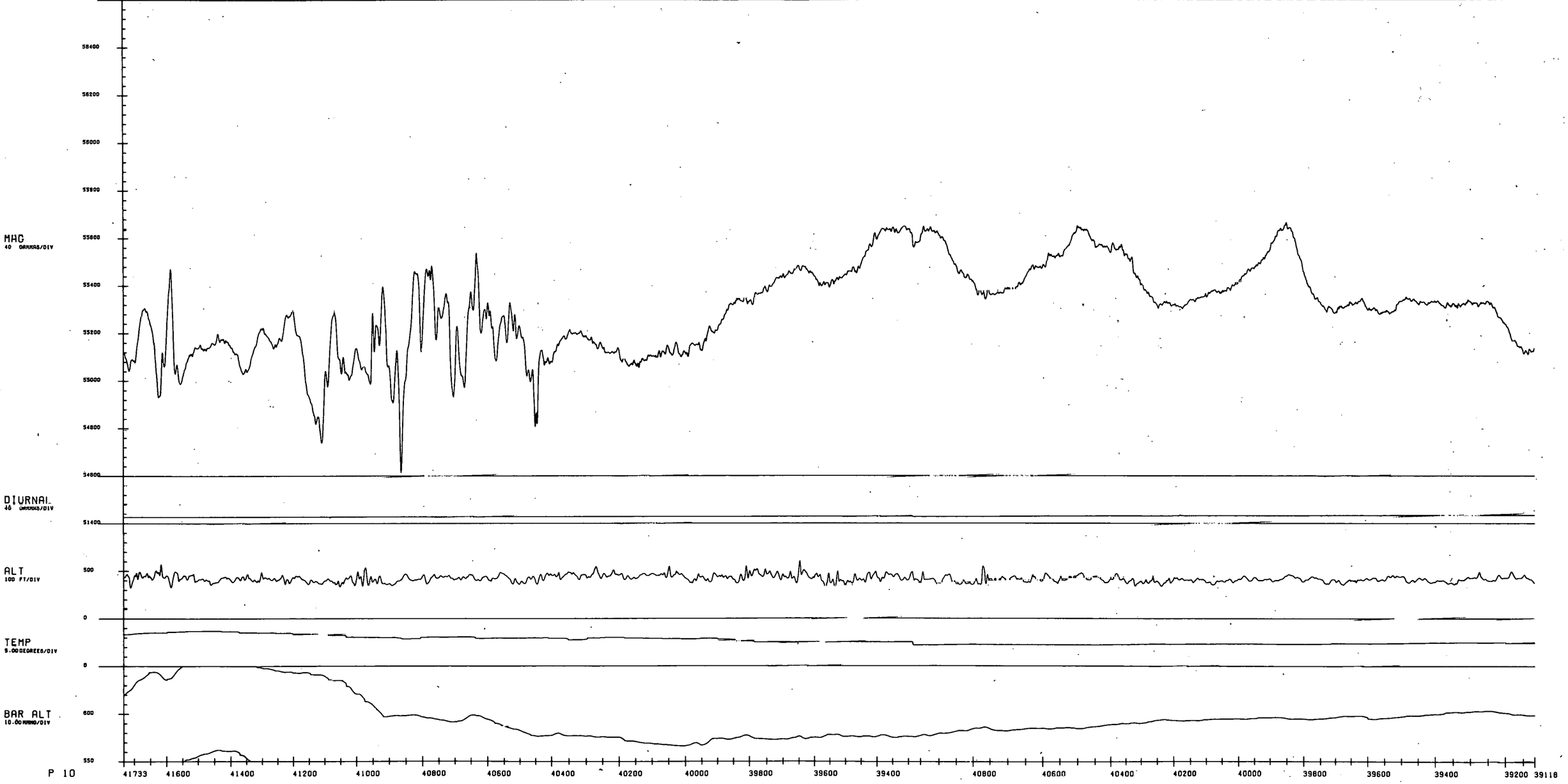

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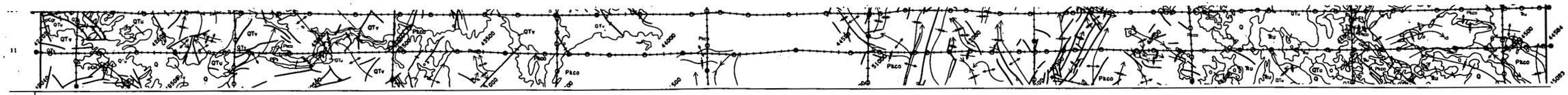

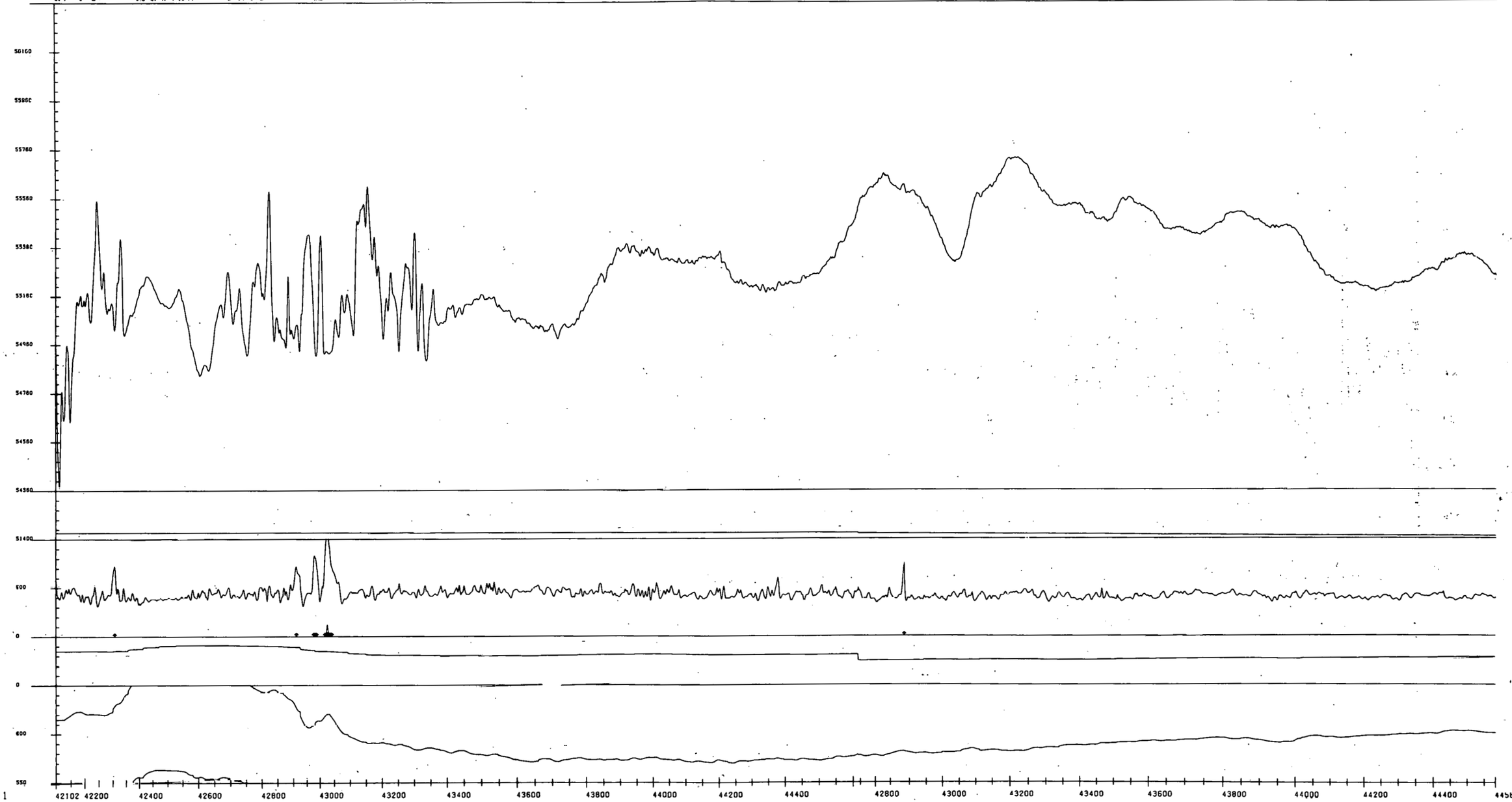

SCALE 1:500,000

0 5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

† EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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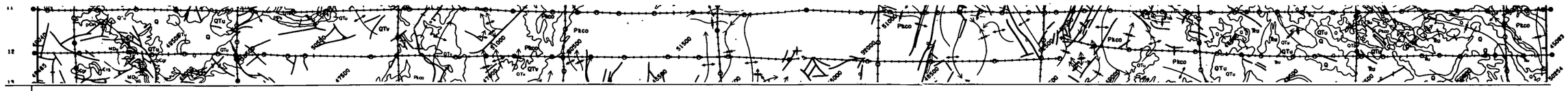

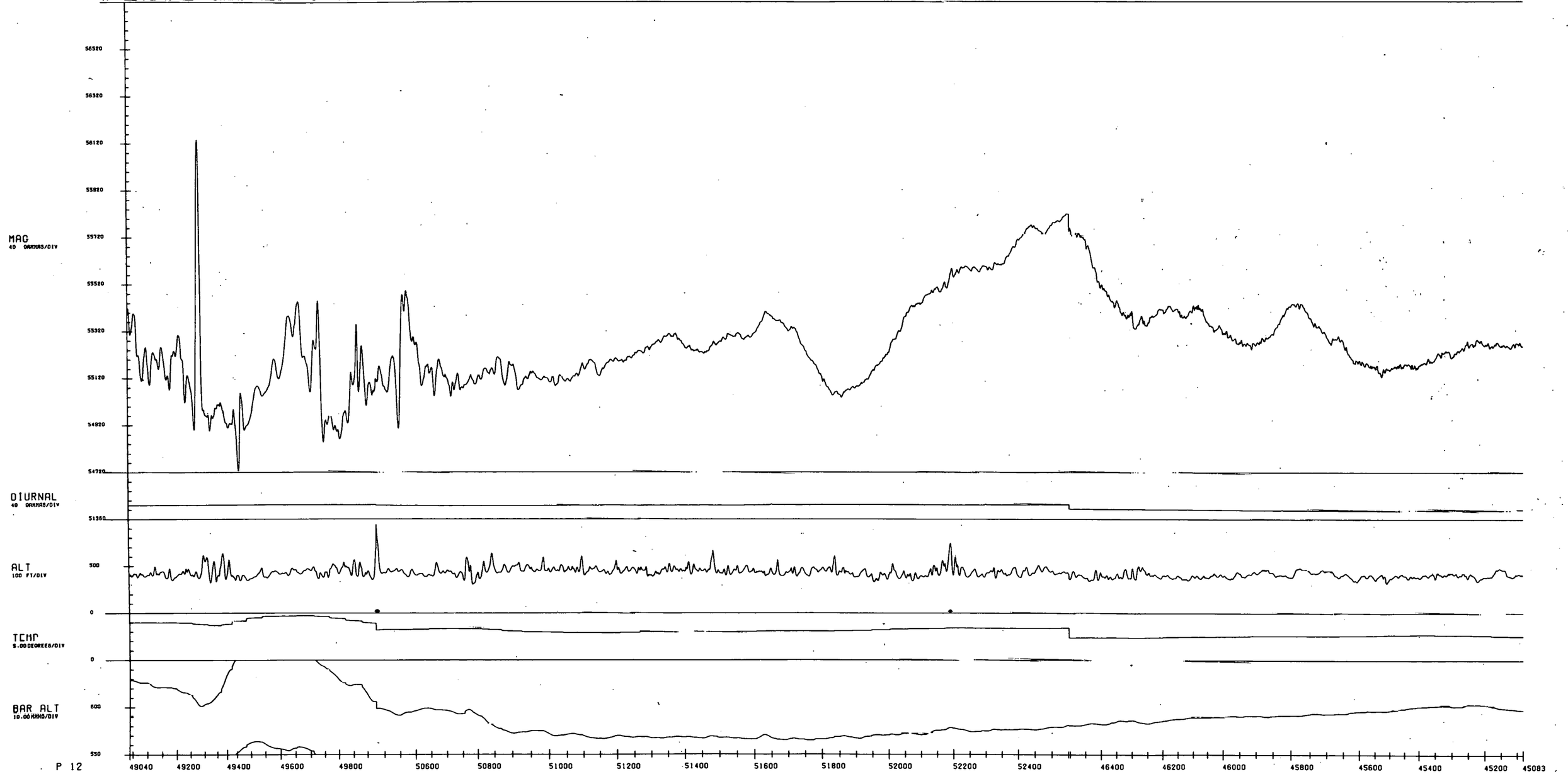

P 12

SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

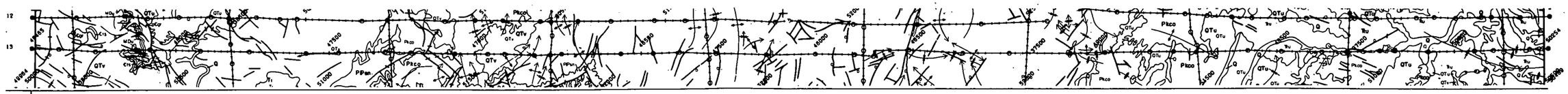
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

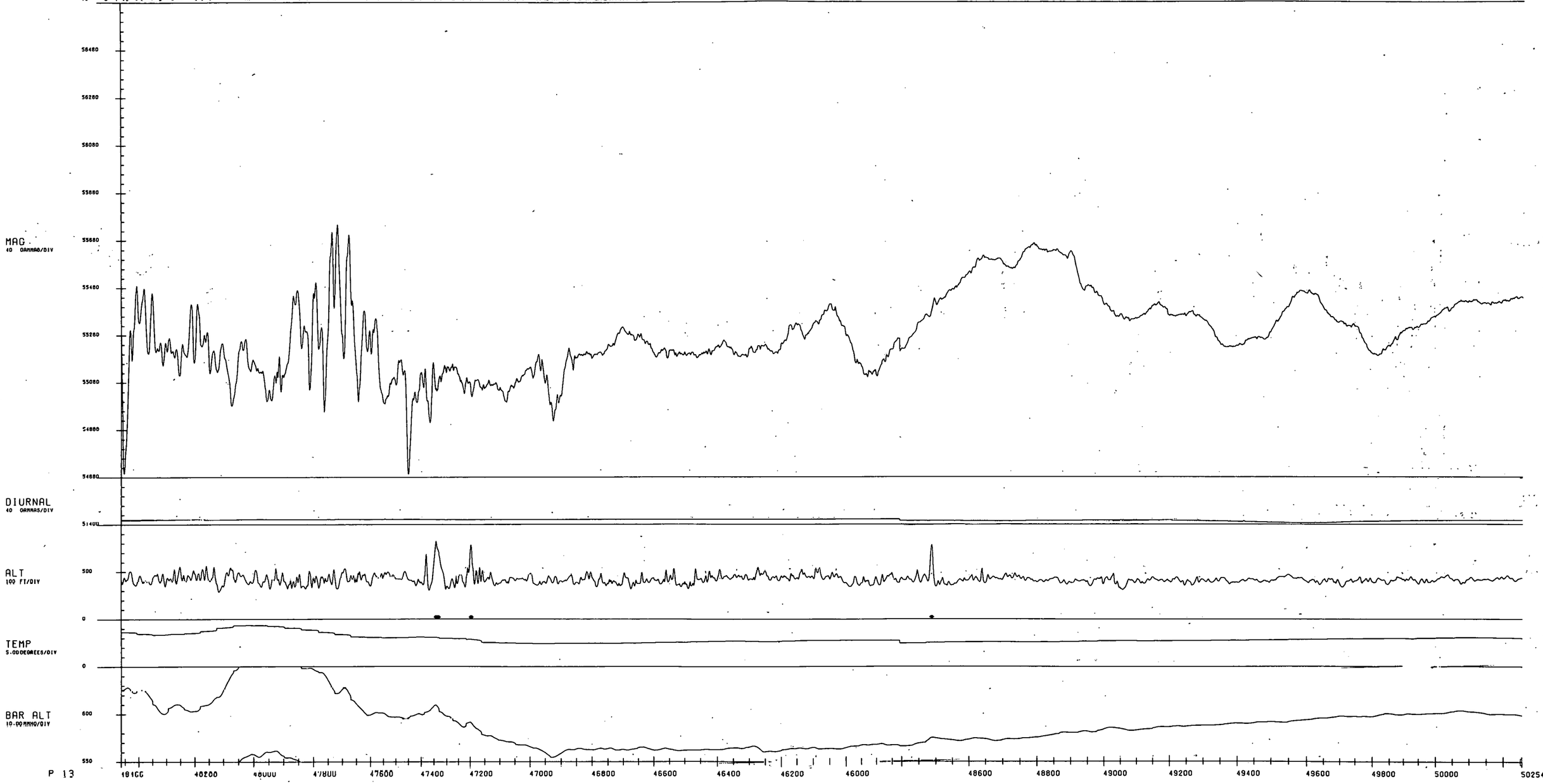
MAGNETIC AND ANCILLARY STACKED PROFILE DATA

1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD.PERKASIE,PA 18944

PREPARED FOR
DEPARTMENT OF ENERGY





SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

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NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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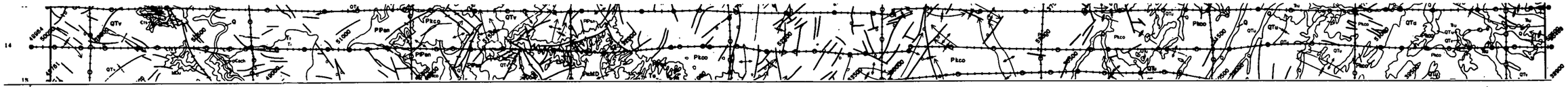

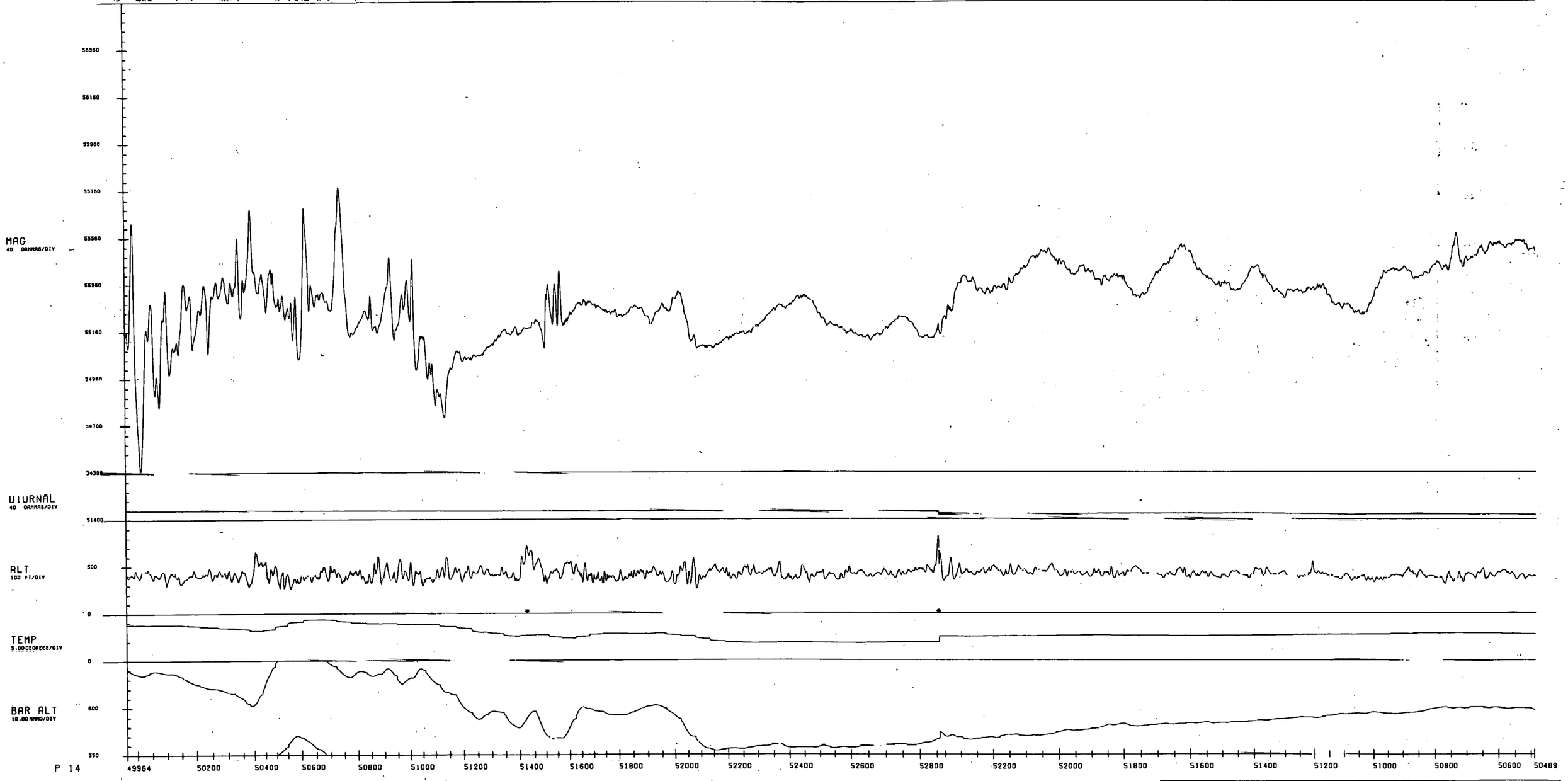

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↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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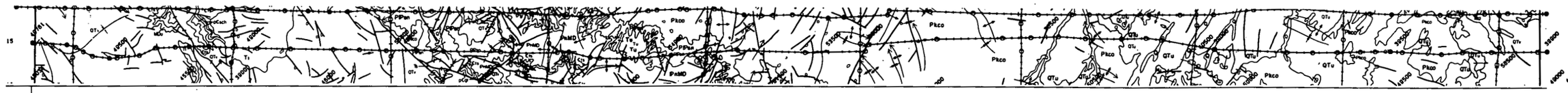

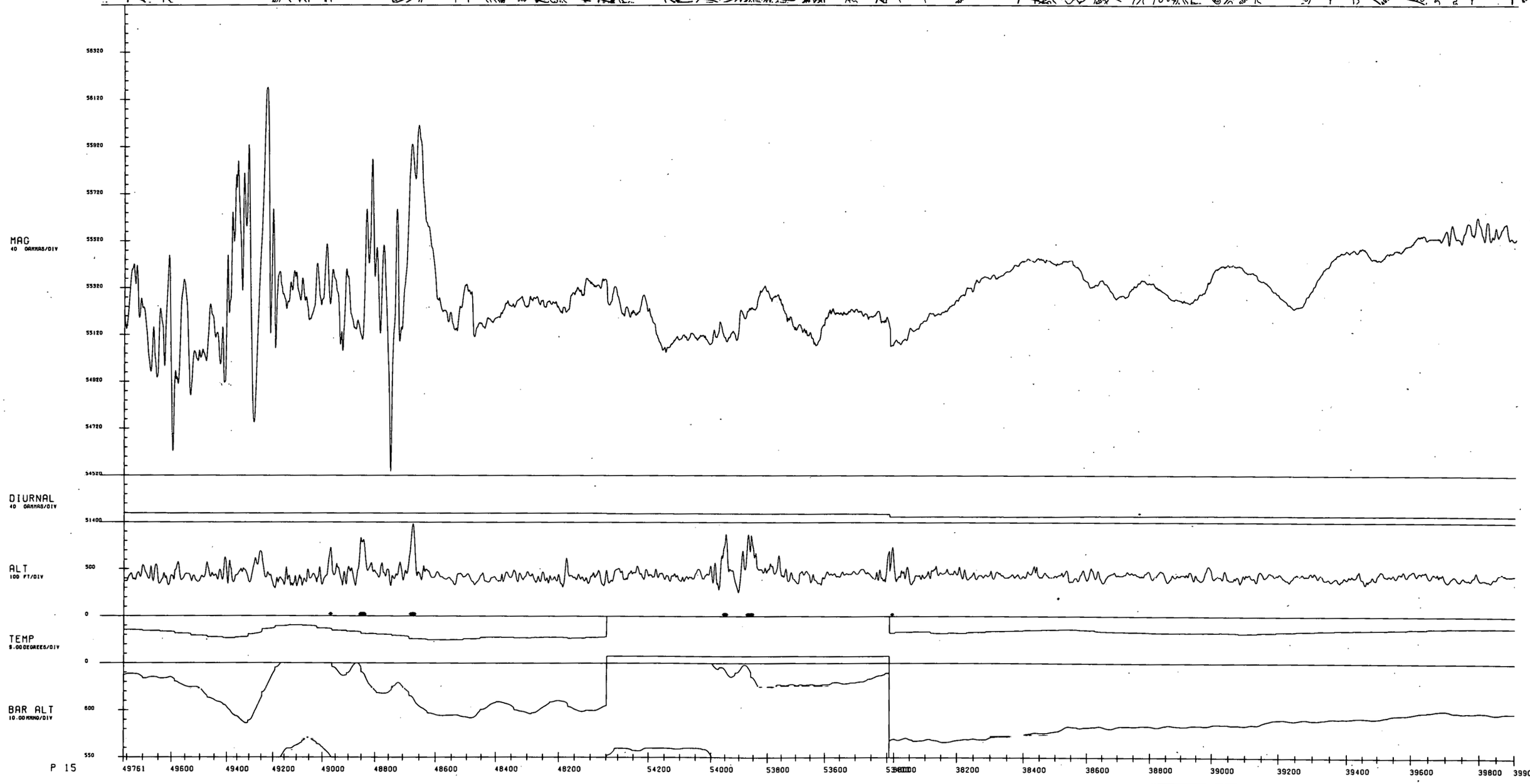

EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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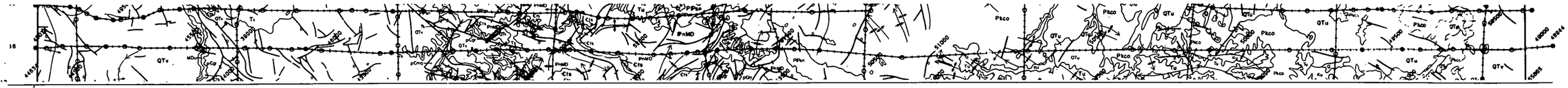

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00DEGREES/DIV

RAR ALT
10.00MMO/DIV

56440
56240
56040
55840
55640
55440
55240
55040
54840
54640
51400
500
0
0
600
550

P 16

45034 45200 45400 45600 45800 46000 46200 46400 46600 52200 52000 51800 51600 51400 51200 51000 50800 50600 50400 50200 50000 49800 49600 49400 49200 48944

SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

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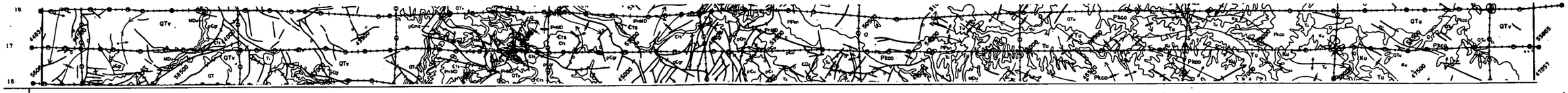

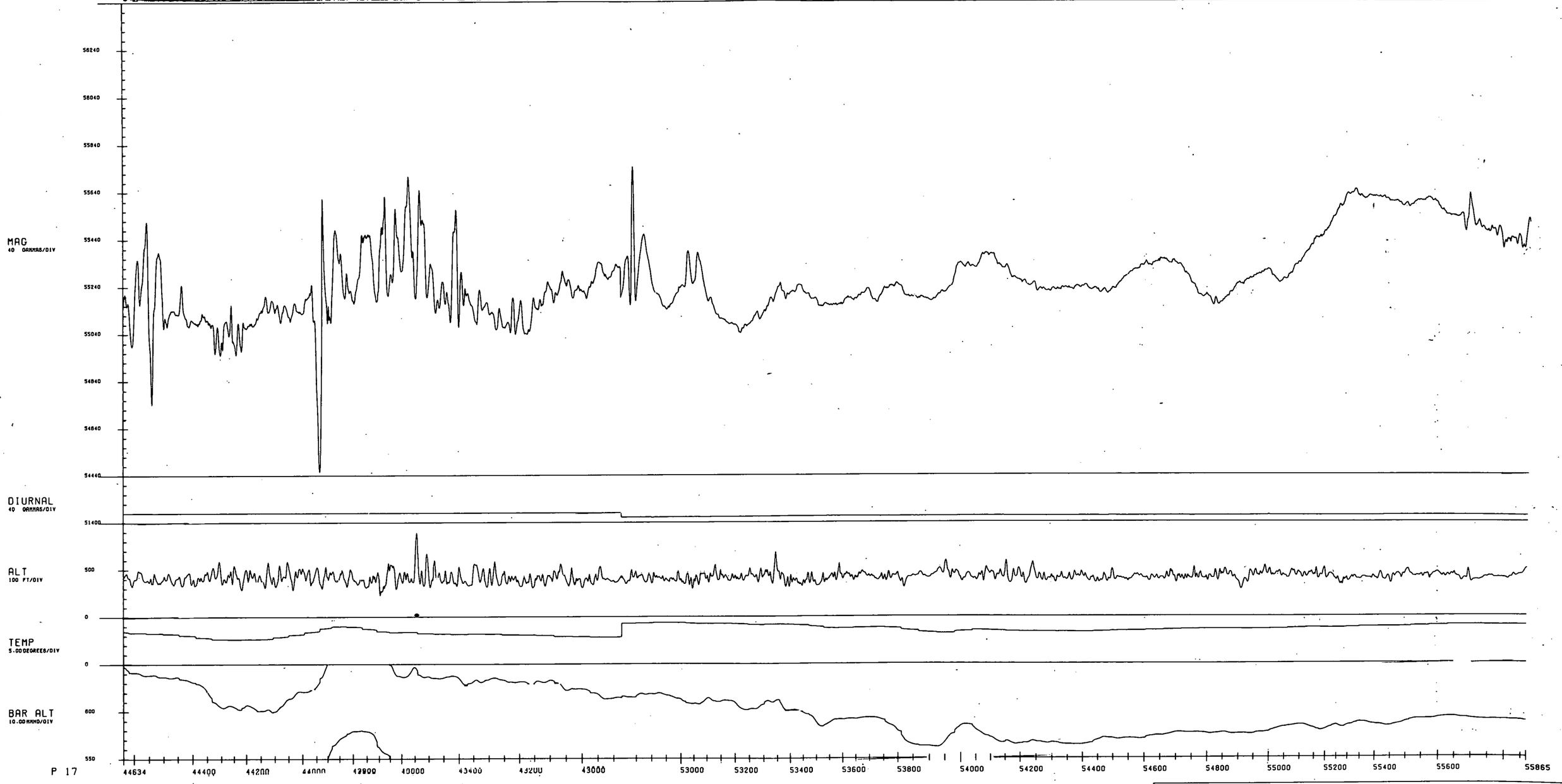

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SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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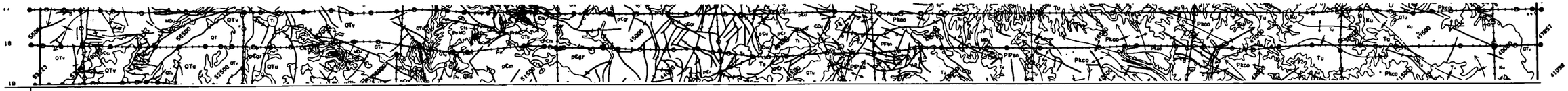

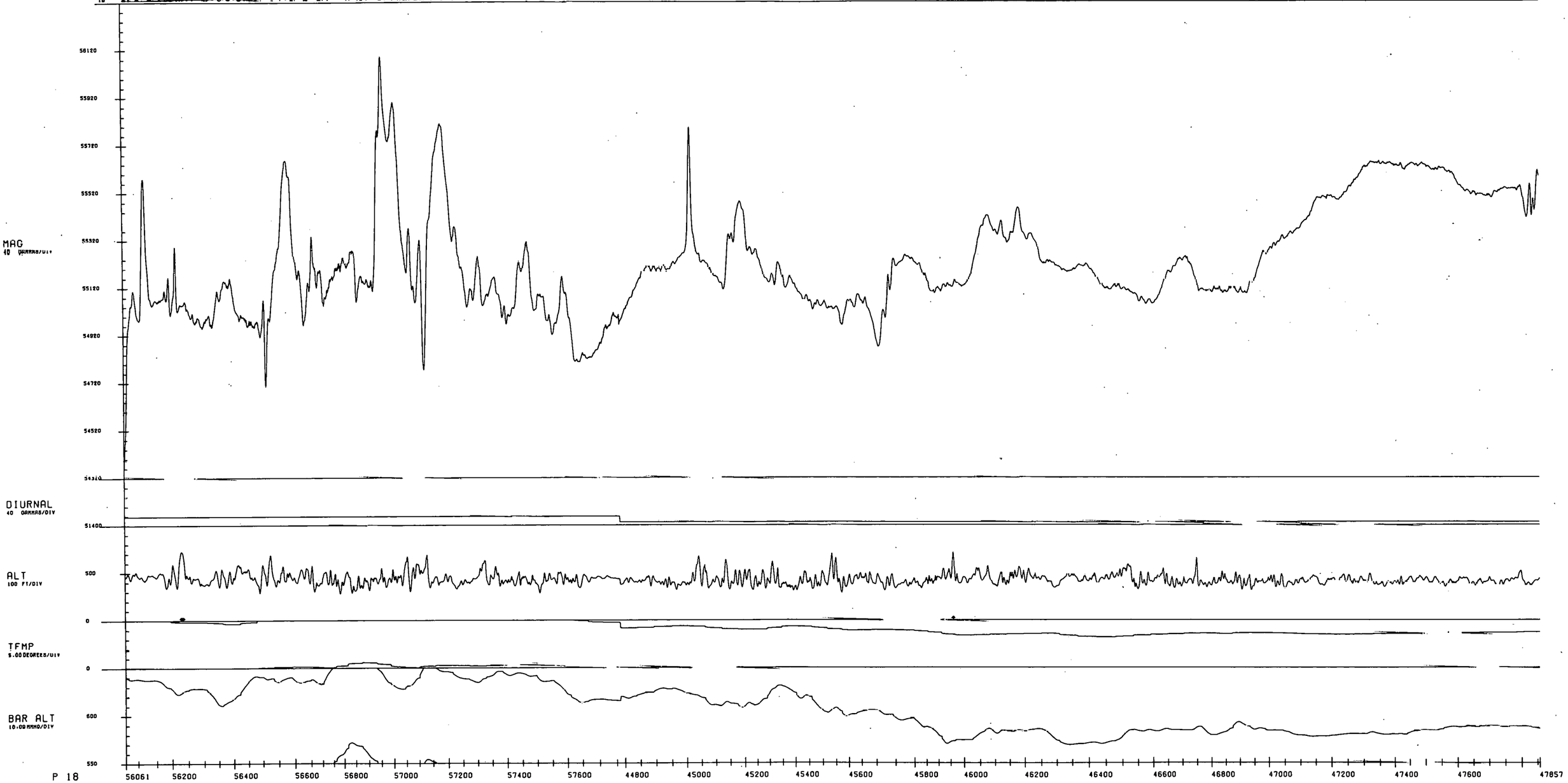

SCALE 1:500,000

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5 0 5 10 15 20 25 KILOMETERS

FLIGHTS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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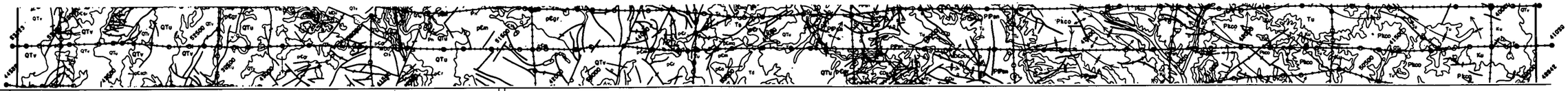

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MMHG/DIV

58080
55880
55680
55480
55280
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54880
54680
54480
54280
51400
500
0
0
600
550

P 19

53123 53000 52800 52600 52400 52200 52000 51800 51600 51400 44200 44000 43800 43600 43400 43200 43000 42800 42600 42400 42200 42000 41800 41600 41400 41200 41039

↑ EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

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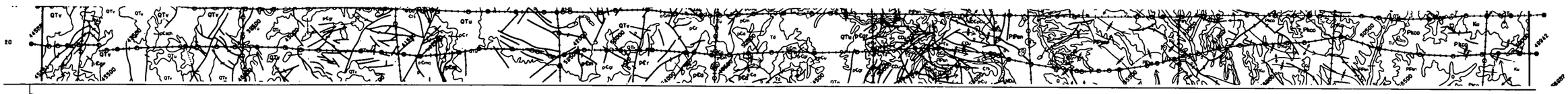

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00DEGREES/DIV

BAR ALT
10.00MMHG/DIV

P 20

SCALE 1:500,000

* EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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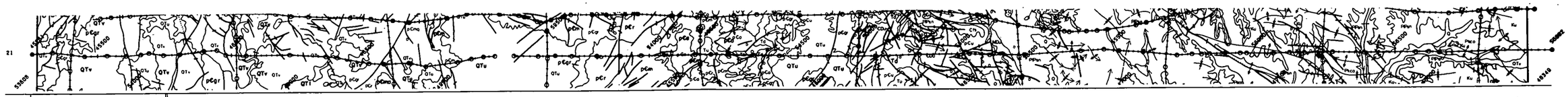

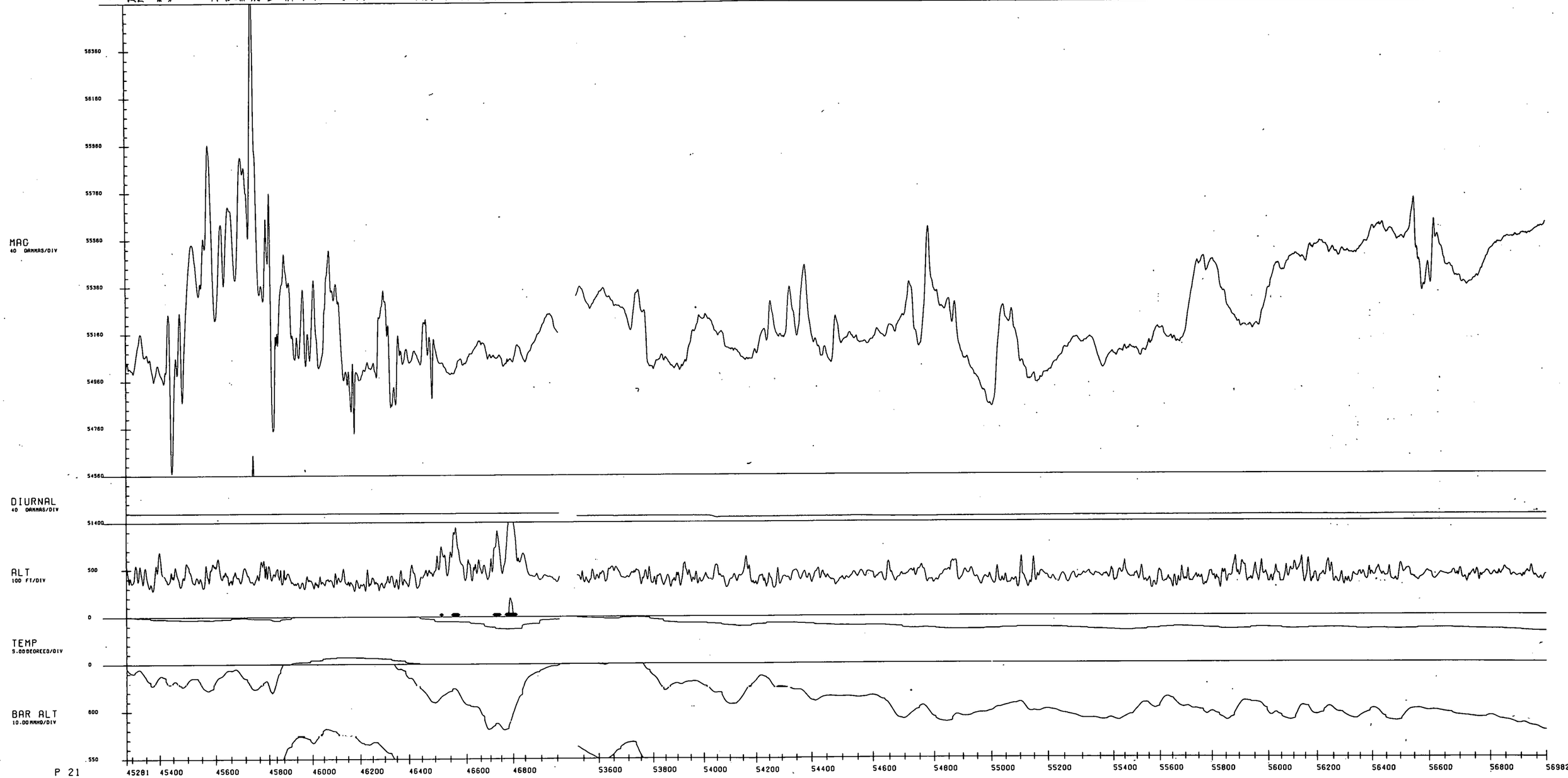

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5 0 5 10 15 20 25 KILOMETERS

↟ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

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PREPARED FOR
DEPARTMENT OF ENERGY

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TFMP
5.00DEGREES/DIV

BAR ALT
10.00MMHG/DIV

P 22

SCALE 1:500,000

5 0 5 10 15 20 25 MILES

5 0 5 10 15 20 25 KILOMETERS

EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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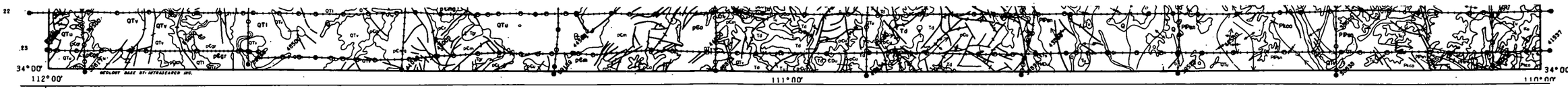

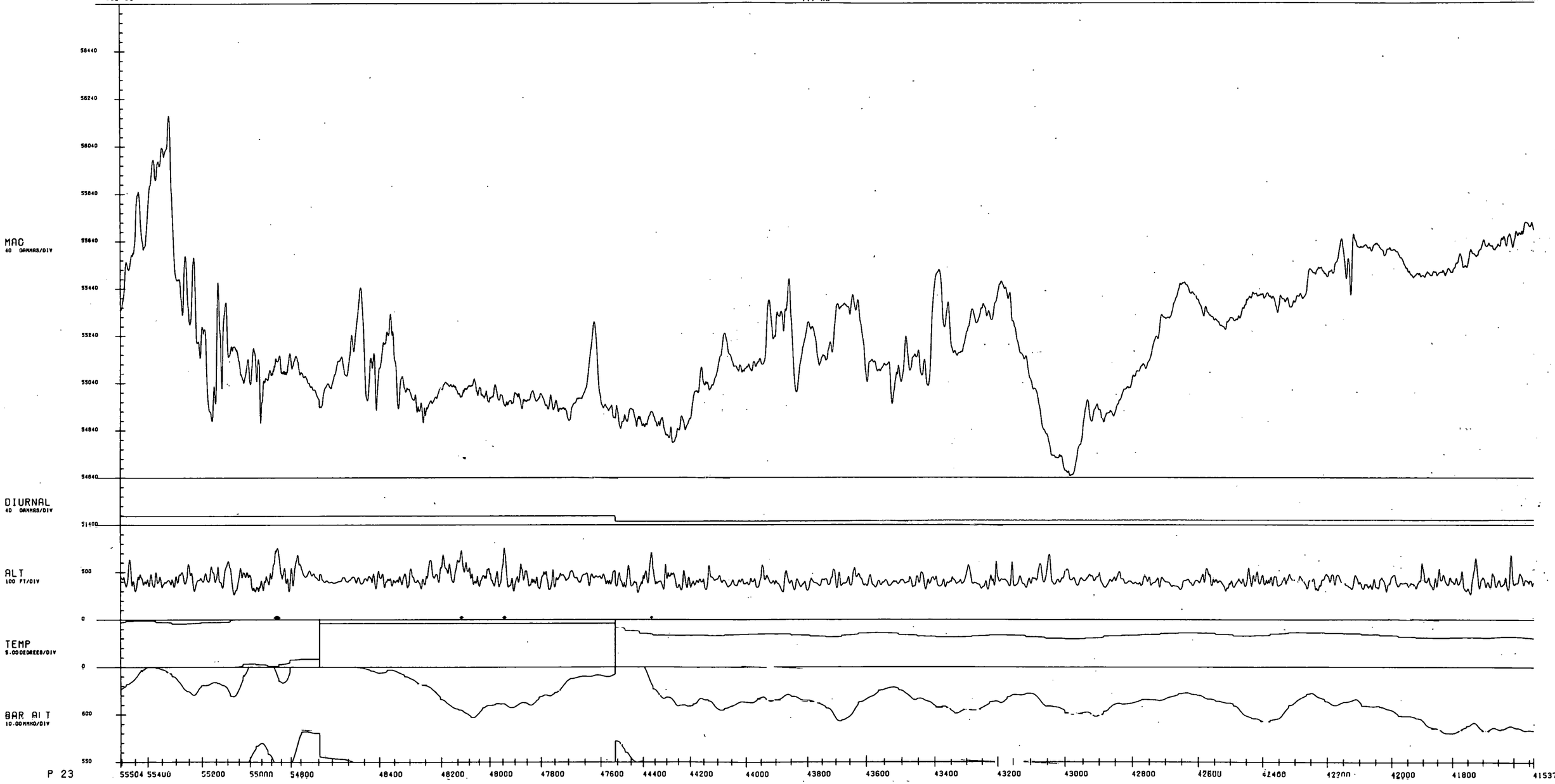

P 23

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5 0 5 10 15 20 25 KILOMETERS

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

1979

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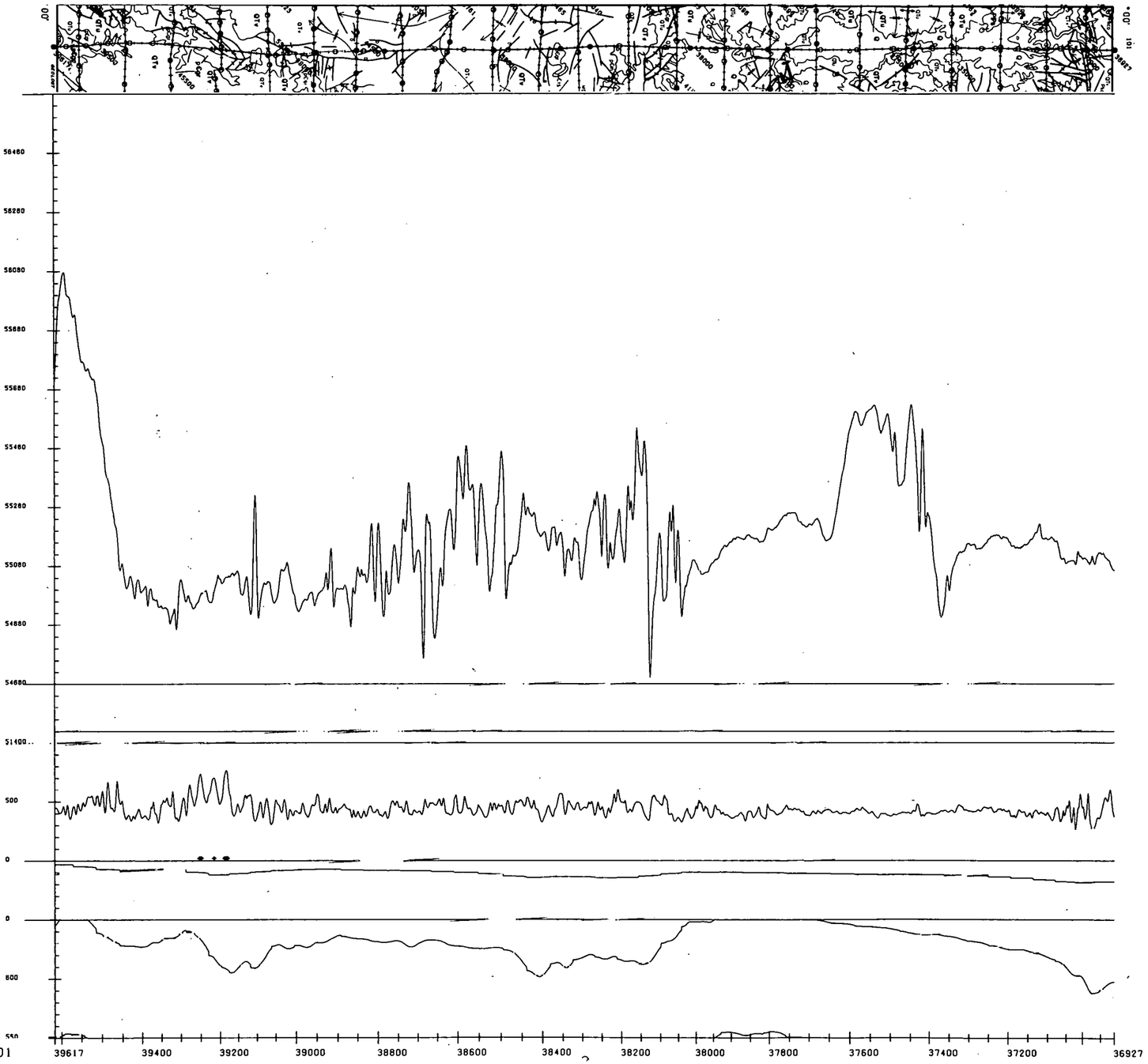

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EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

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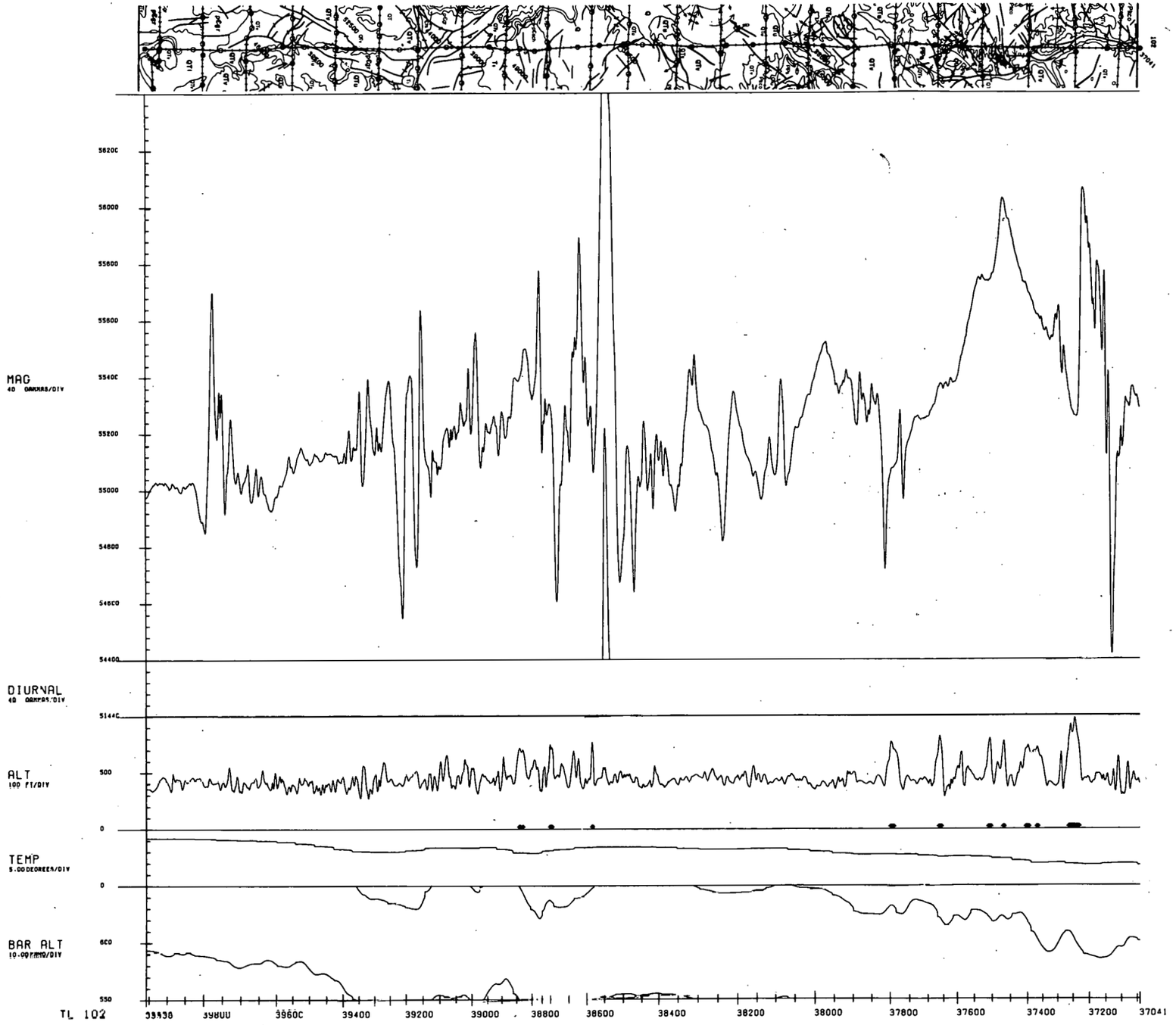

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

ARIZONA-HOLBROOK NI 12-5, QUADRANGLE

MAGNETIC AND ANCILLARY STACKED PROFILE DATA

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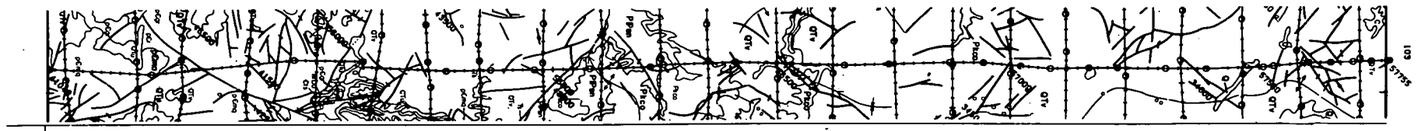

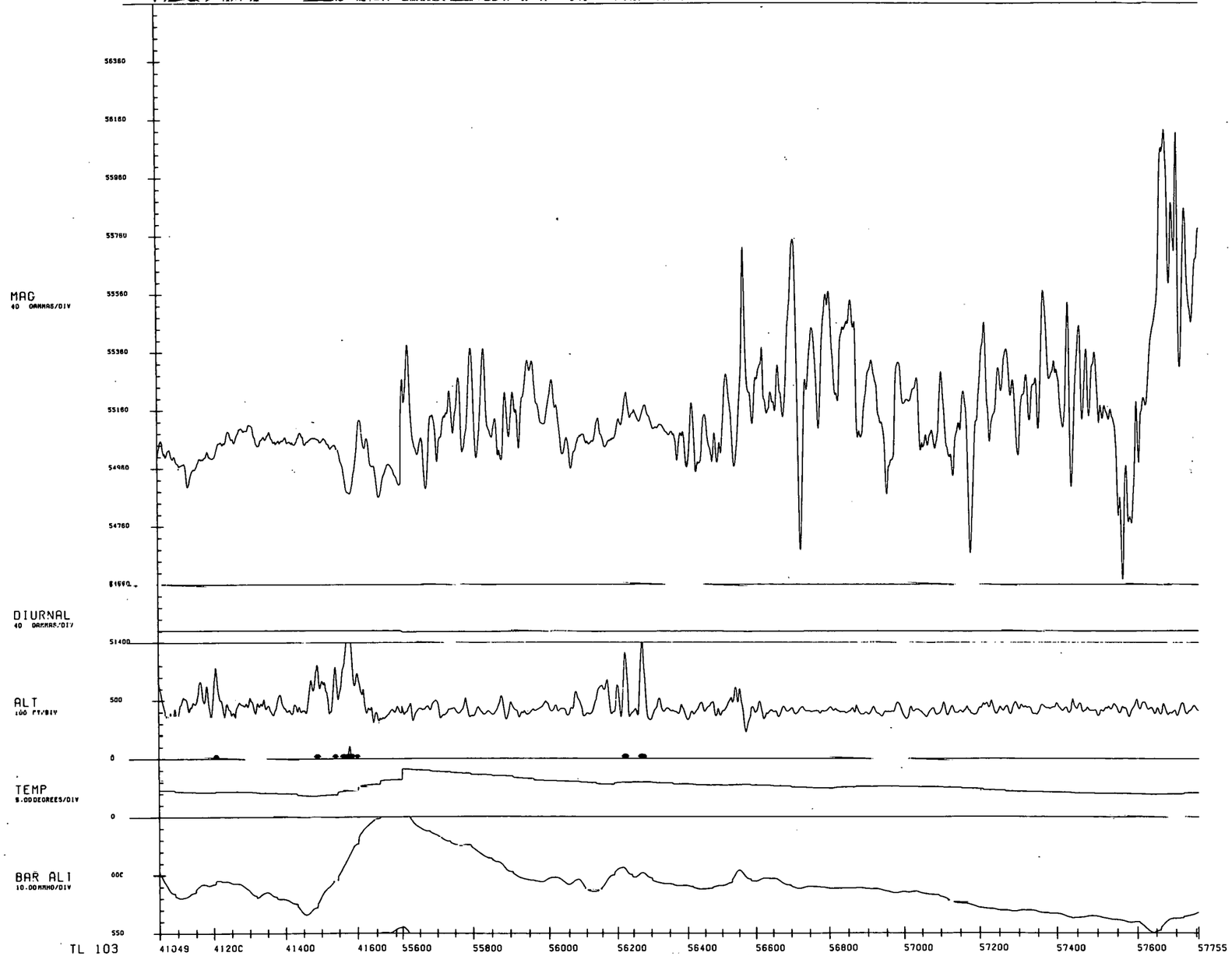

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NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

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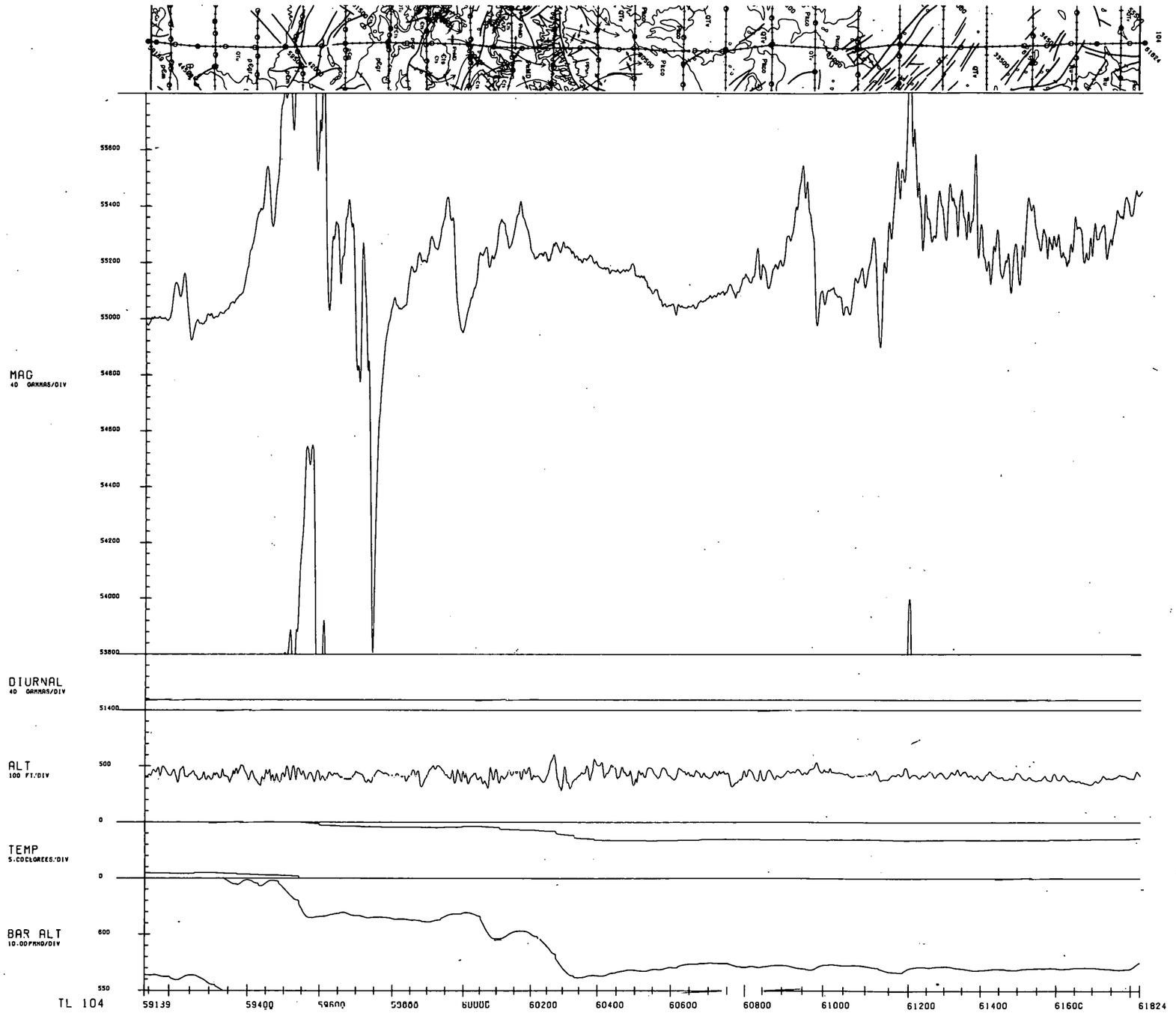

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

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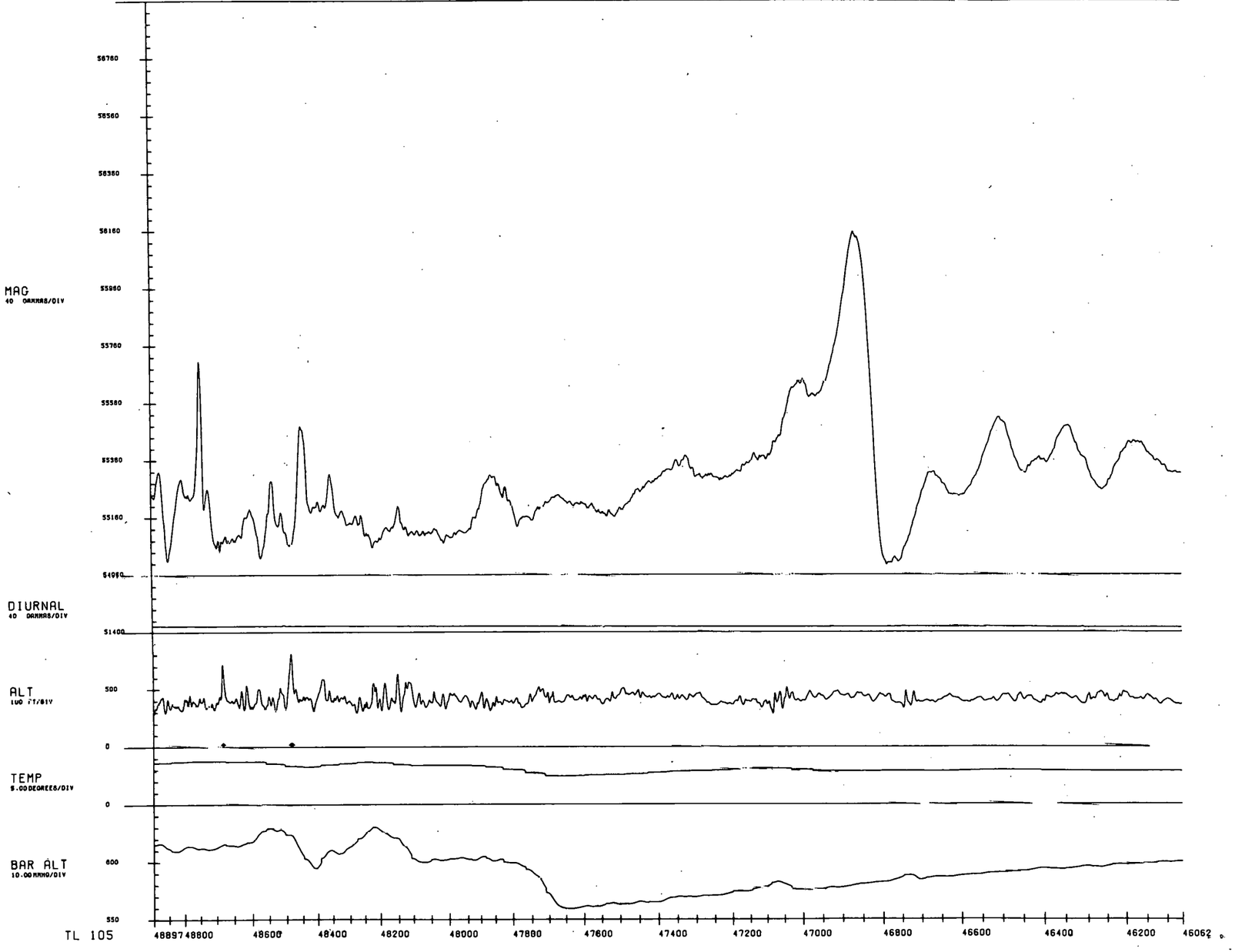

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RECONNAISSANCE SURVEY

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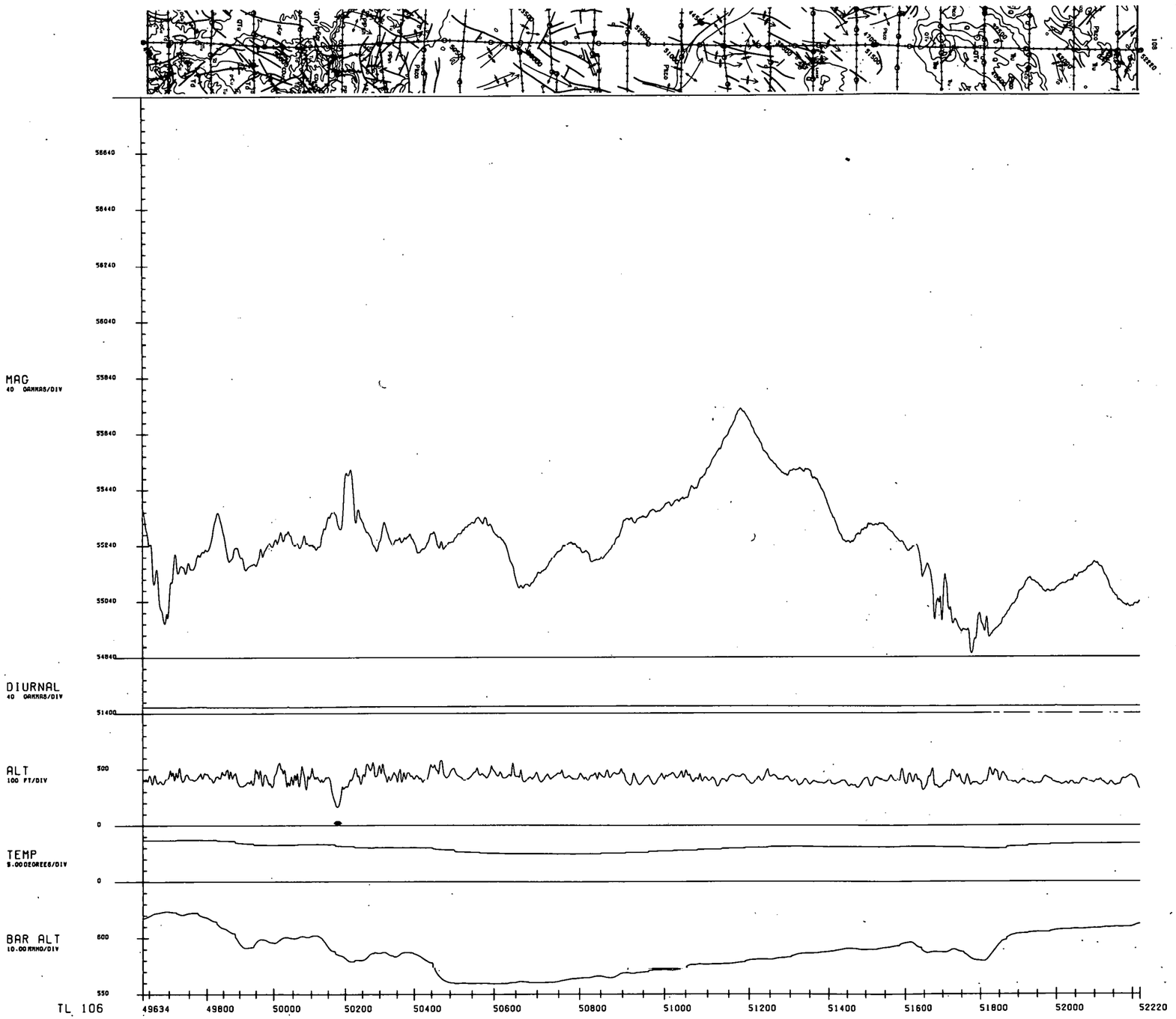

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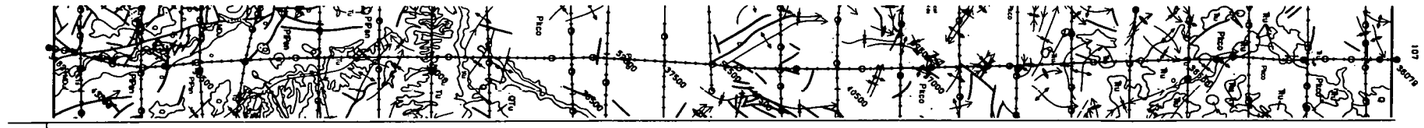

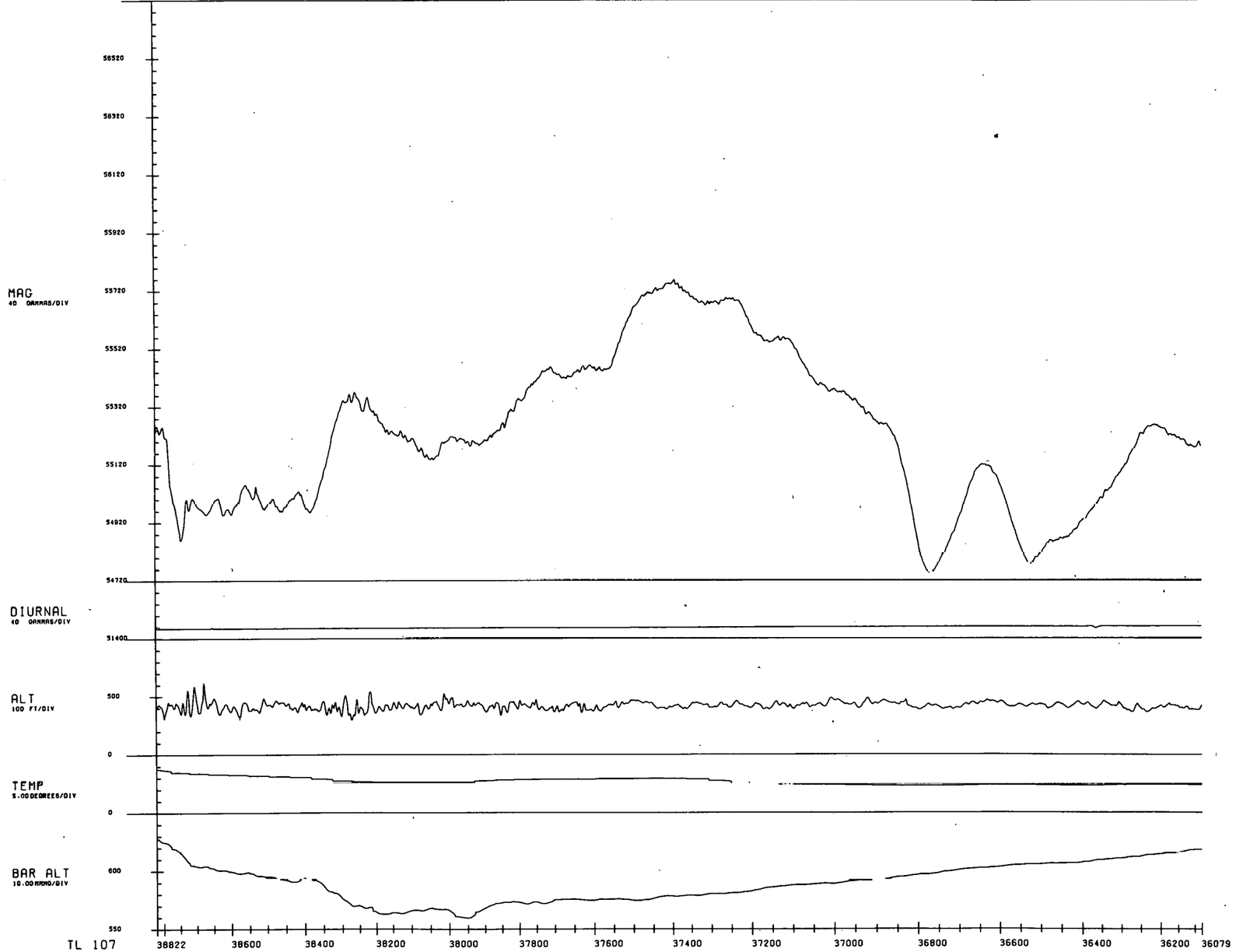

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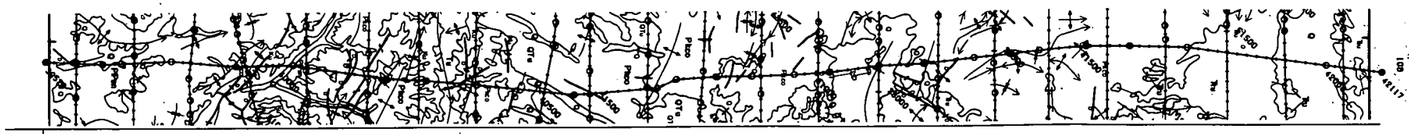

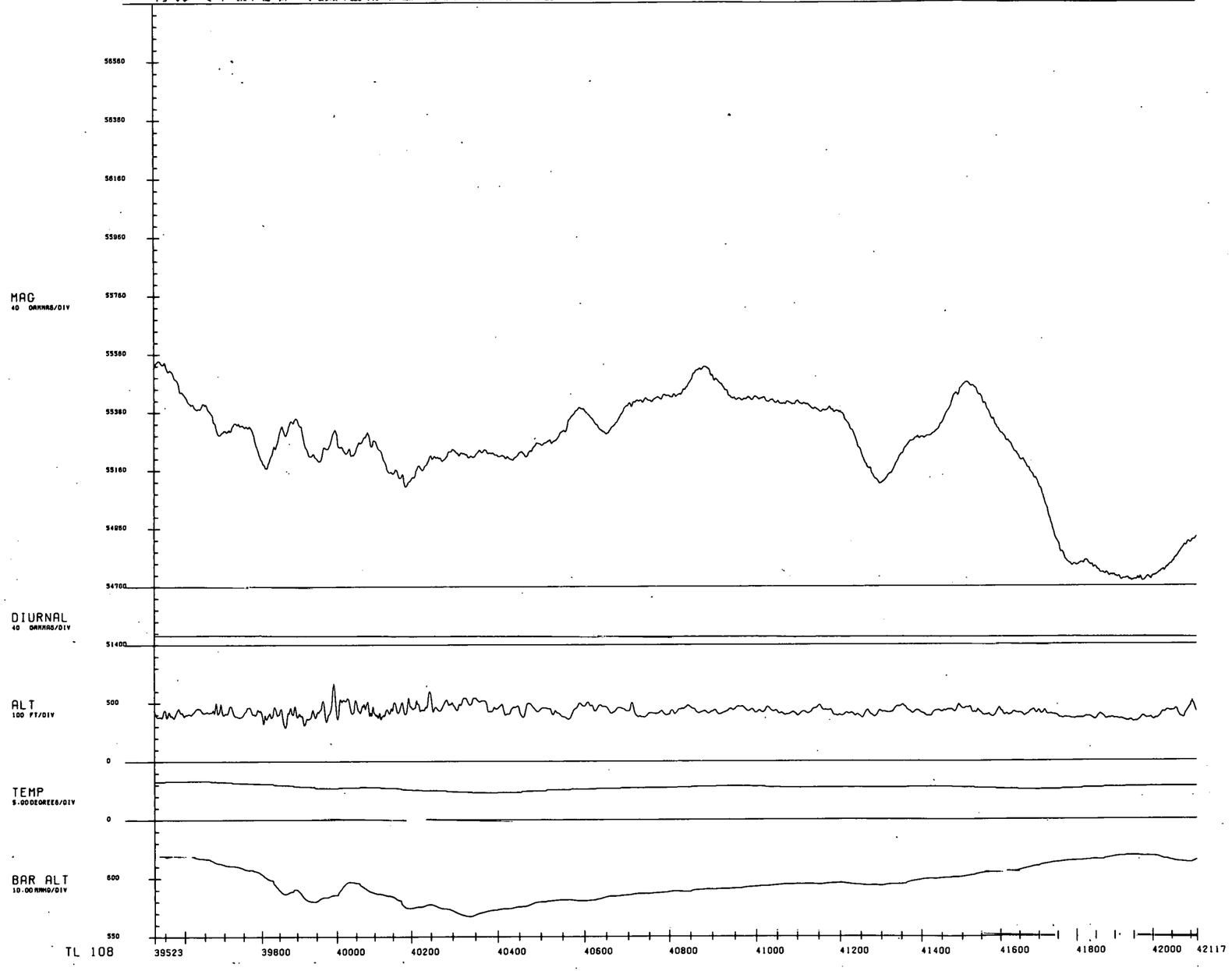

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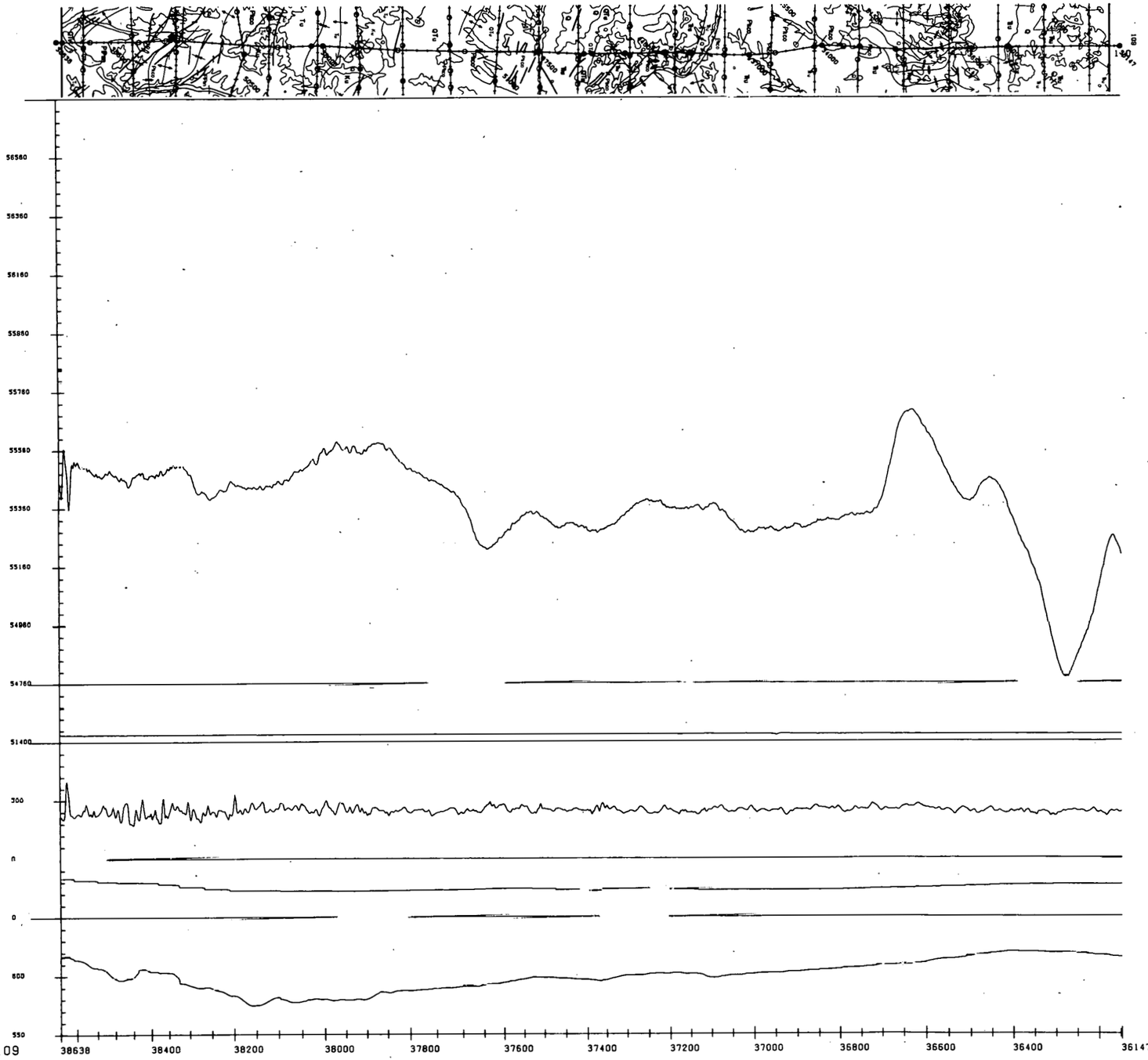

EXCEEDS ALTITUDE SPECIFICATIONS

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ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

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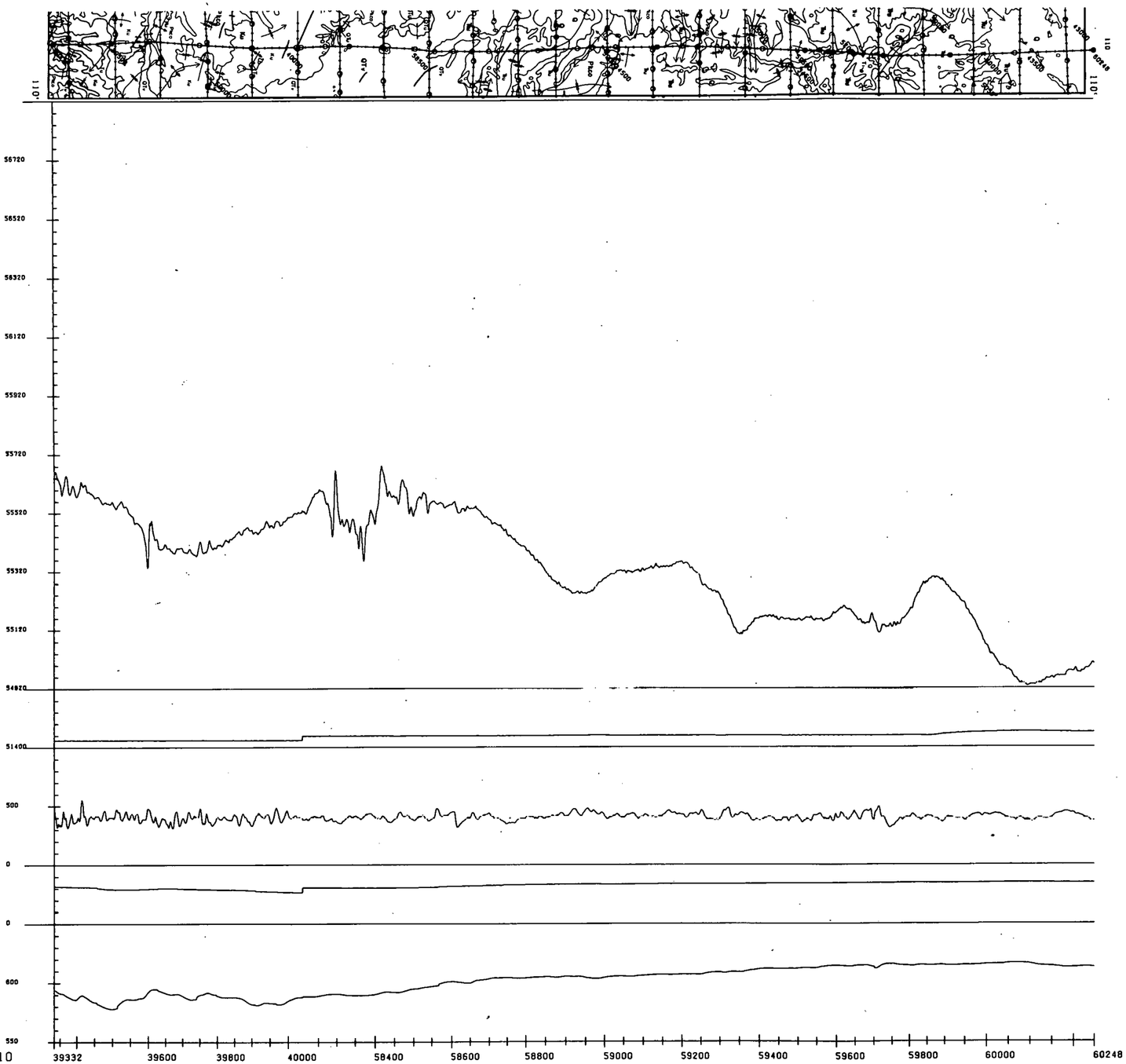

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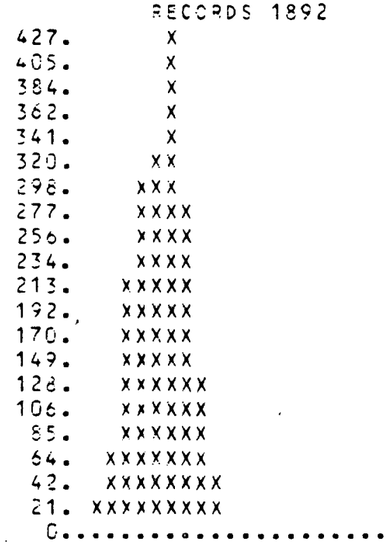
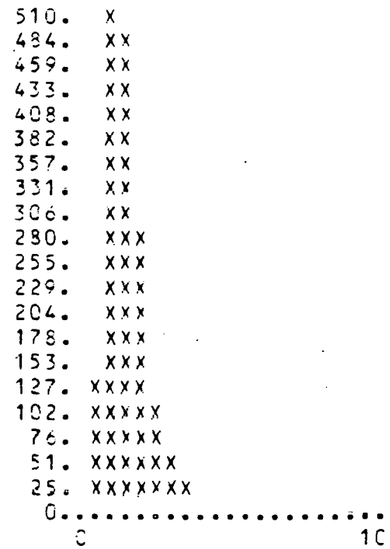
ARIZONA-HOLBROOK NW 12-5 QUADRANGLE
GEOLOGIC UNIT Q

POTASSIUM%
RECORDS 1892



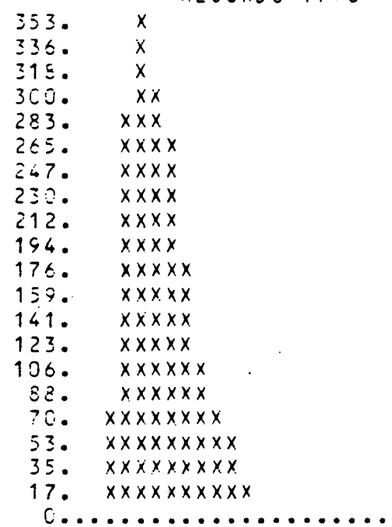
MEAN 1.2 SIGMA 0.4

U/K RATIO
RECORDS 1692



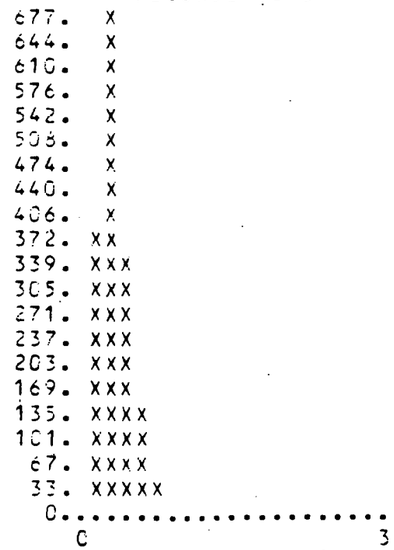
MEAN 1.8 SIGMA 0.9

URANIUM PPM
RECORDS 1776



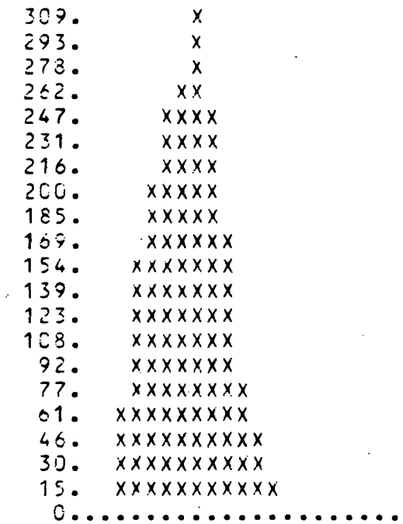
MEAN 2.1 SIGMA 0.8

U/T RATIO
RECORDS 1692



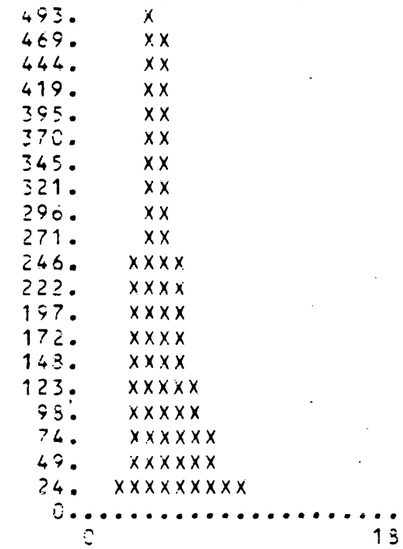
MEAN 0.4 SIGMA 0.2

THORIUM PPM
RECORDS 1882



MEAN 5.8 SIGMA 2.1

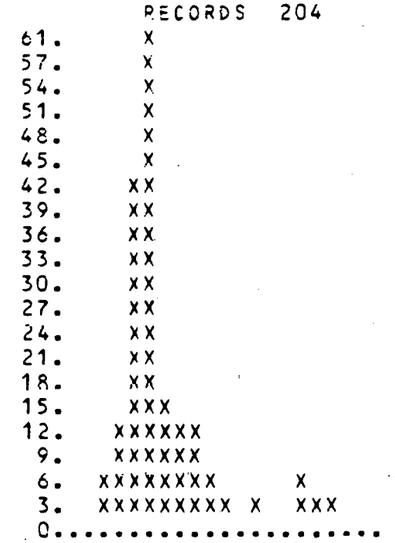
T/K RATIO
RECORDS 1828



MEAN 5.0 SIGMA 1.7

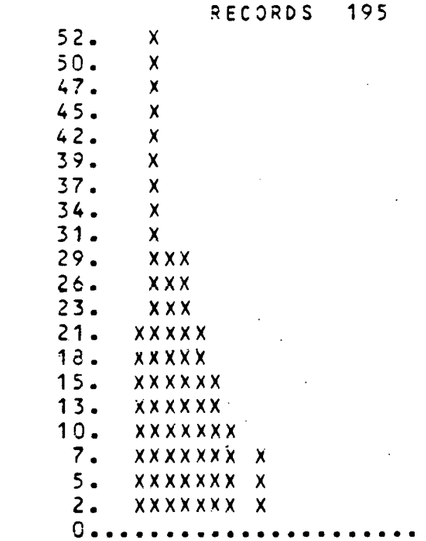
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT QTL

POTASSIUM%
RECORDS 204



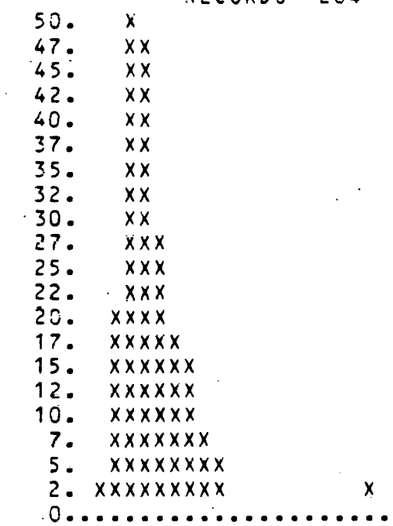
MEAN 1.6 SIGMA 0.8

URANIUM PPM
RECORDS 195



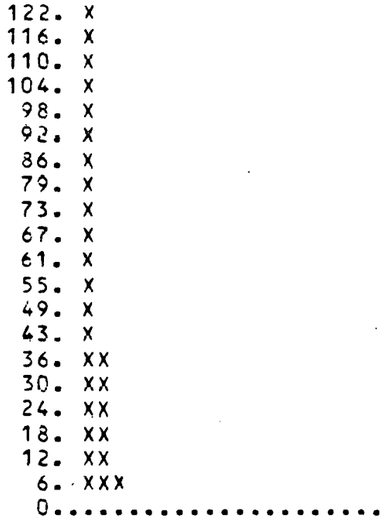
MEAN 2.3 SIGMA 1.1

THORIUM PPM
RECORDS 204



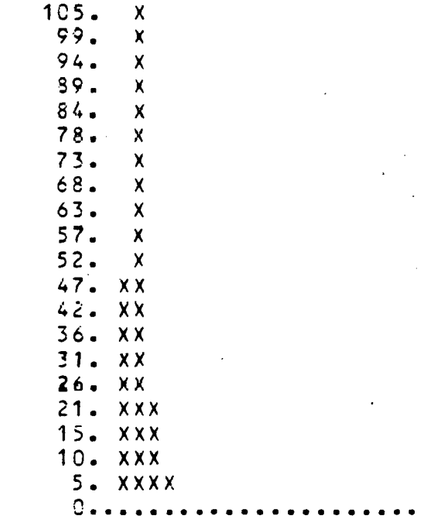
MEAN 8.0 SIGMA 4.5

U/K RATIO
RECORDS 191



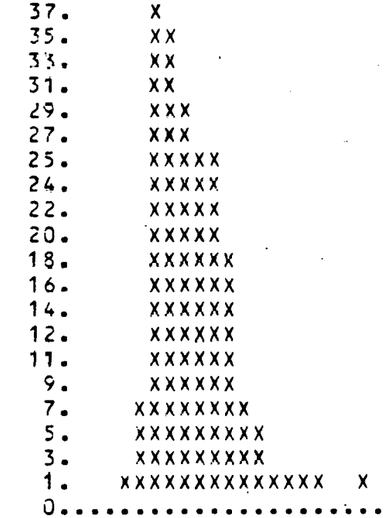
MEAN 1.7 SIGMA 1.5

U/T RATIO
RECORDS 191



MEAN 0.3 SIGMA 0.2

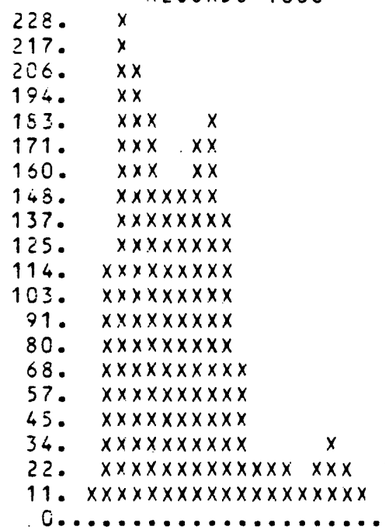
T/K RATIO
RECORDS 202



MEAN 5.3 SIGMA 1.7

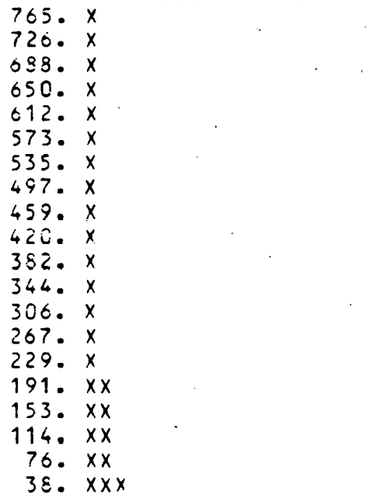
ARIZONA-HOLBROCK NL 12-5 QUADRANGLE
GEOLOGIC UNIT QTU

POTASSIUM%
RECORDS 1888



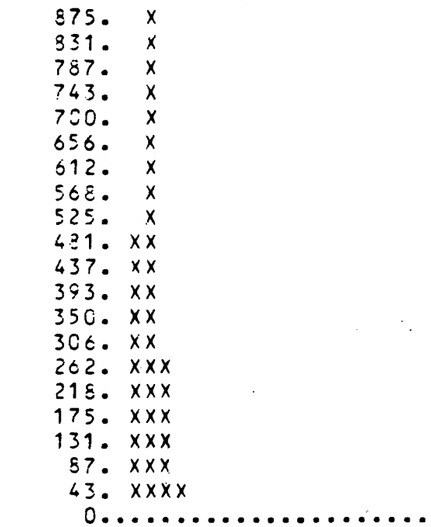
MEAN 1.5 SIGMA 0.8

U/K RATIO
RECORDS 1654



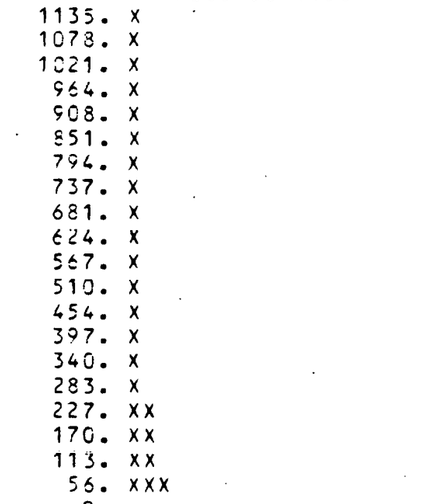
MEAN 1.5 SIGMA 1.2

URANIUM PPM
RECORDS 1757



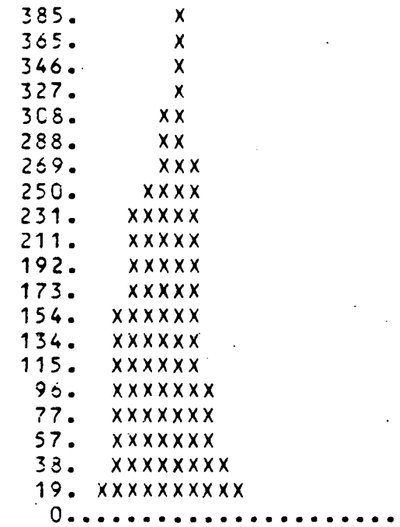
MEAN 1.8 SIGMA 0.9

U/T RATIO
RECORDS 1653



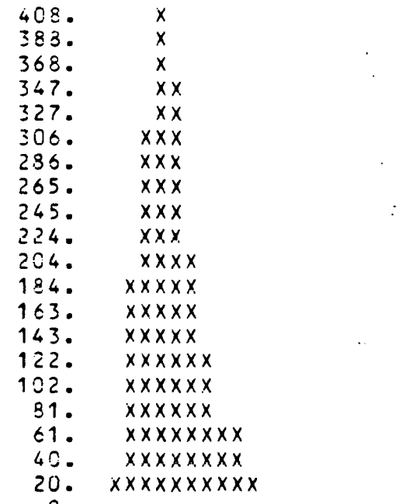
MEAN 0.3 SIGMA 0.3

THORIUM PPM
RECORDS 1887



MEAN 5.9 SIGMA 2.3

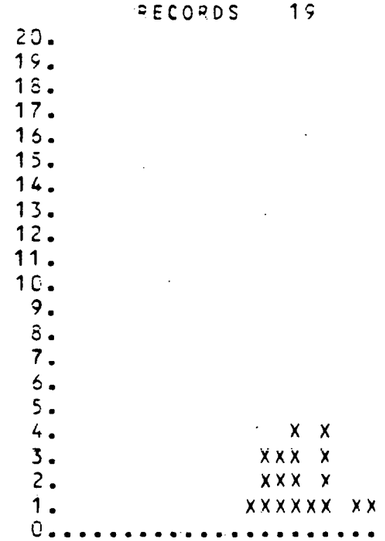
T/K RATIO
RECORDS 1819



MEAN 4.4 SIGMA 1.6

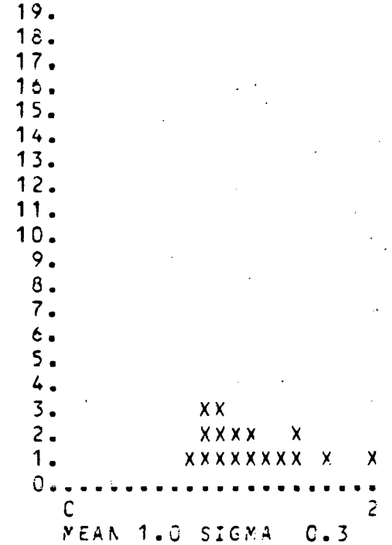
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT GB

POTASSIUM%
RECORDS 19



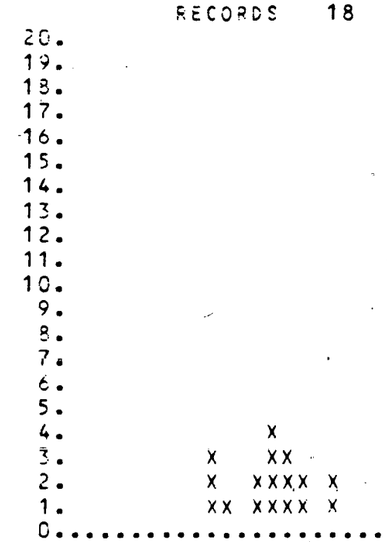
MEAN 1.5 SIGMA 0.2

U/K RATIO
RECORDS 18



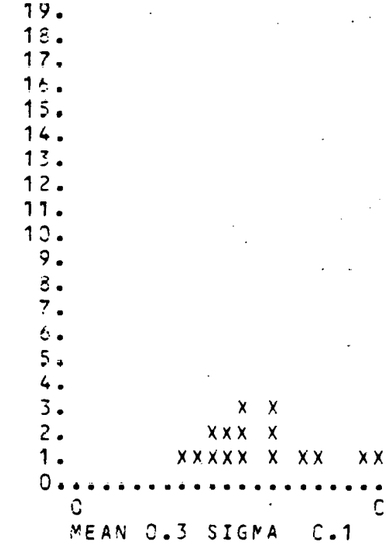
MEAN 1.0 SIGMA 0.3

URANIUM PPM
RECORDS 18



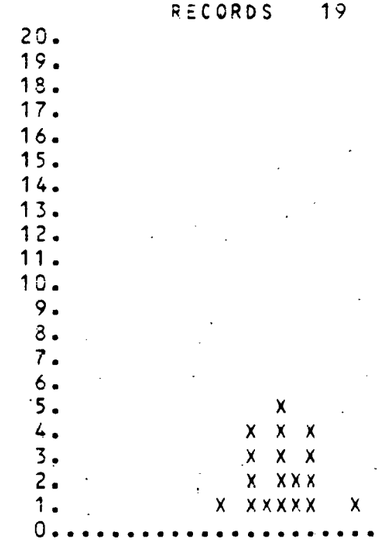
MEAN 1.5 SIGMA 0.3

U/T RATIO
RECORDS 18



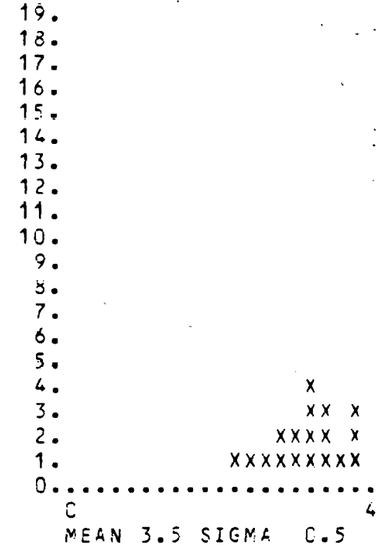
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 19



MEAN 5.1 SIGMA 0.9

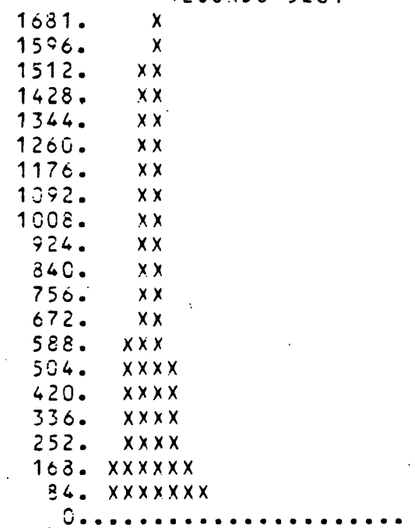
T/K RATIO
RECORDS 19



MEAN 3.5 SIGMA 0.5

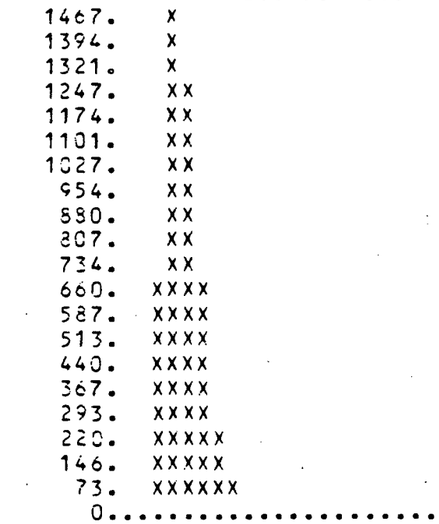
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT QTV

POTASSIUM%
RECORDS 5281



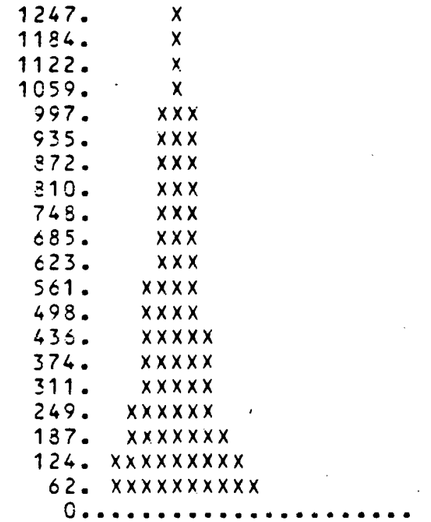
MEAN 0.9 SIGMA 0.5

URANIUM PPM
RECORDS 4683



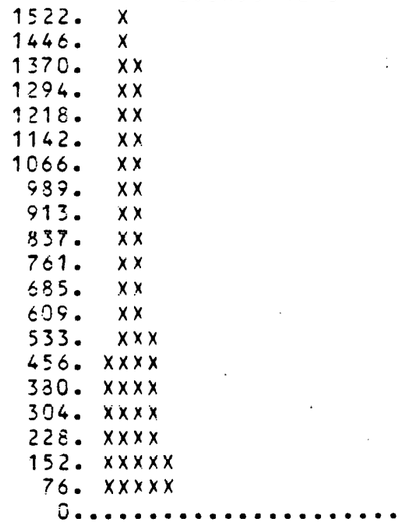
MEAN 1.7 SIGMA 0.6

THORIUM PPM
RECORDS 5276



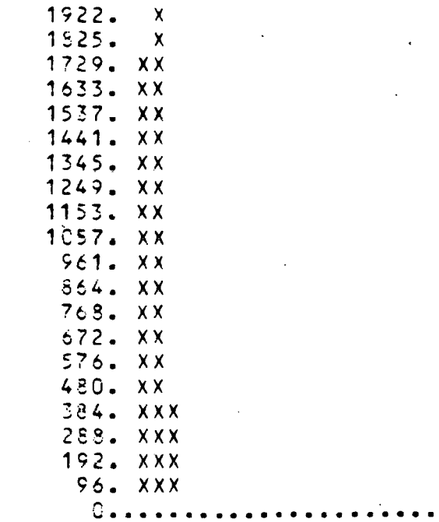
MEAN 6.7 SIGMA 2.4

U/K RATIO
RECORDS 4293



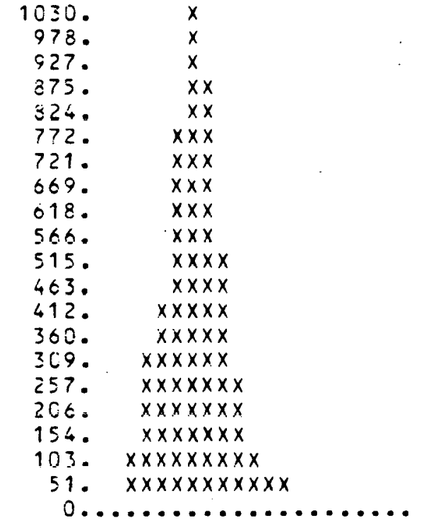
MEAN 1.9 SIGMA 0.7

U/T RATIO
RECORDS 4292



MEAN 0.3 SIGMA 0.1

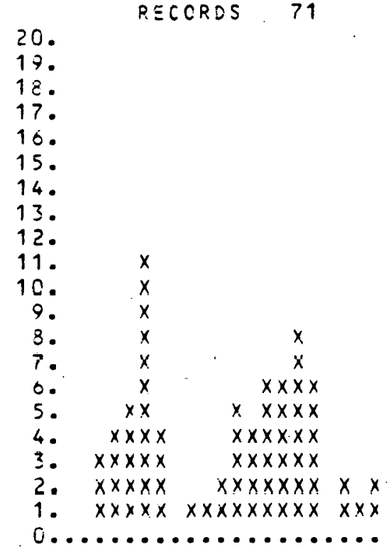
T/K RATIO
RECORDS 4846



MEAN 7.6 SIGMA 2.5

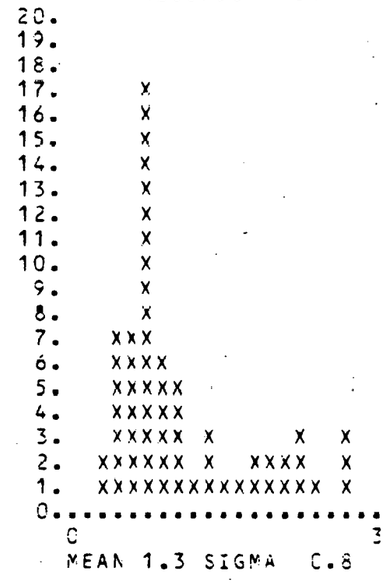
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT TS

POTASSIUM%
RECORDS 71



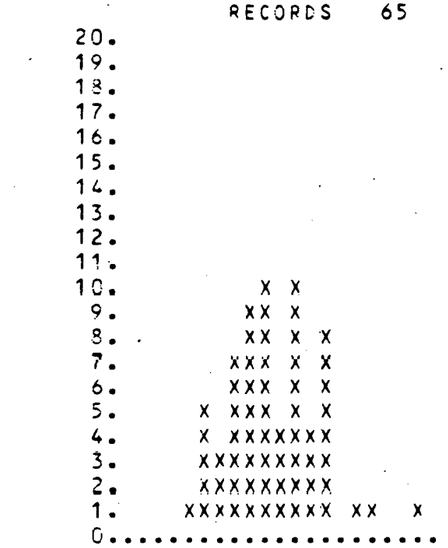
MEAN 2.1 SIGMA 1.0

U/K RATIO
RECORDS 64



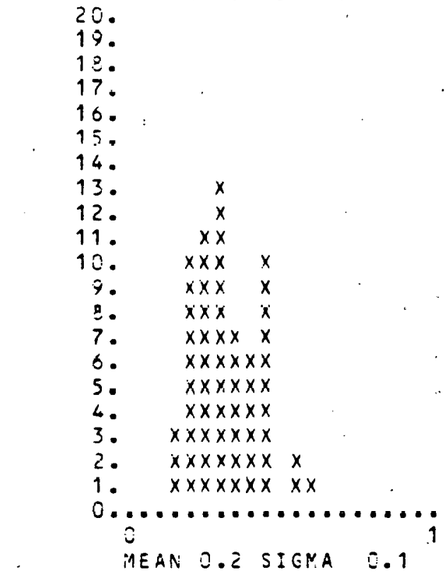
MEAN 1.3 SIGMA 0.8

URANIUM PPM
RECORDS 65



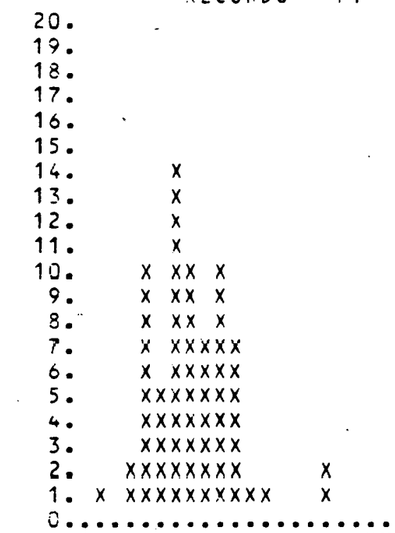
MEAN 2.2 SIGMA 0.7

U/T RATIO
RECORDS 64



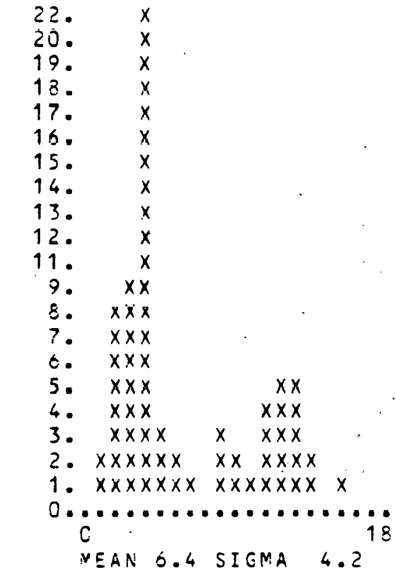
MEAN 0.2 SIGMA 0.1

THORIUM PPM
RECORDS 71



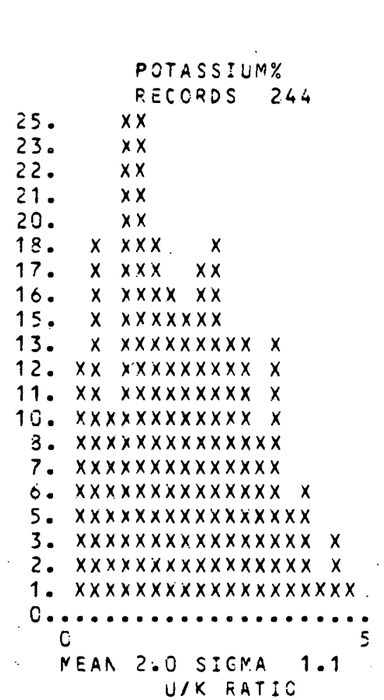
MEAN10.0 SIGMA 4.1

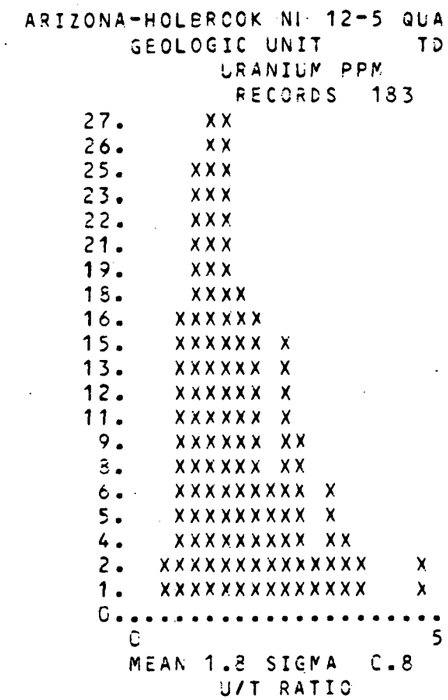
T/K RATIO
RECORDS 71

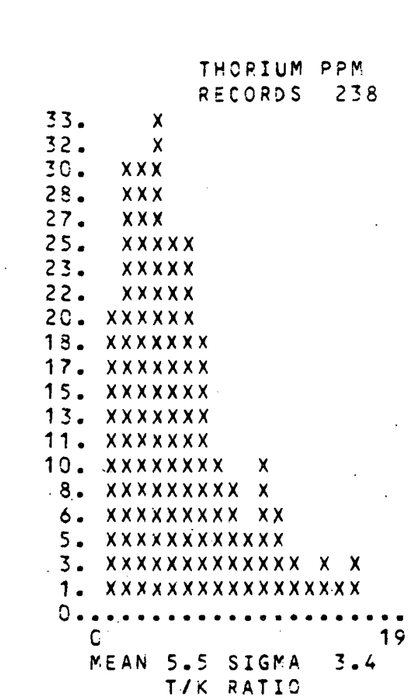


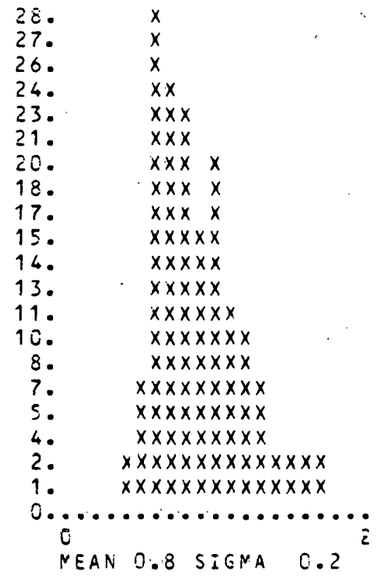
MEAN 6.4 SIGMA 4.2

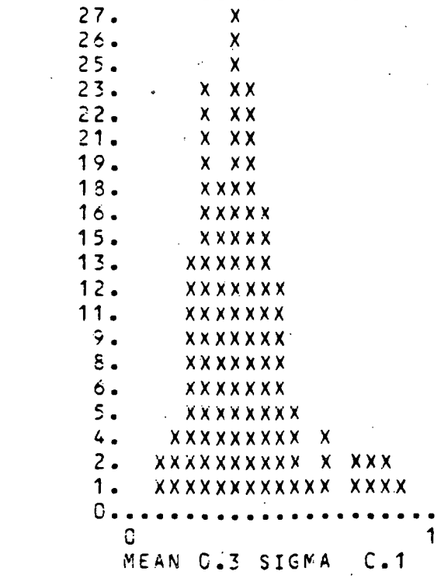
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

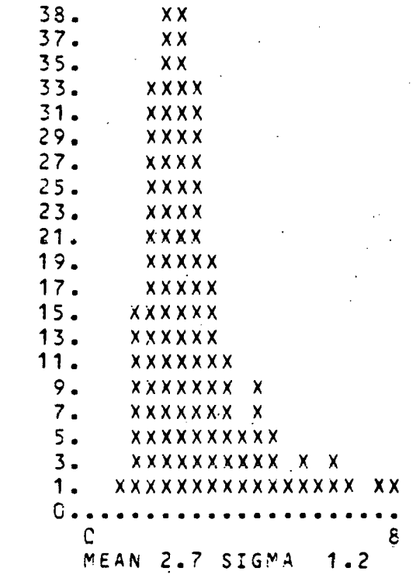






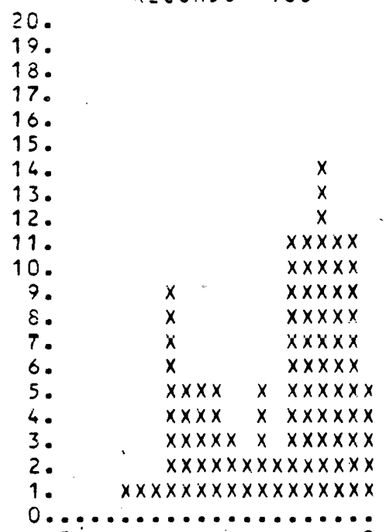






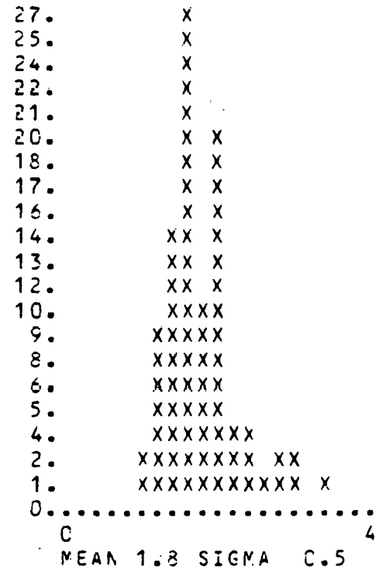
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT TI

POTASSIUM%
RECORDS 103



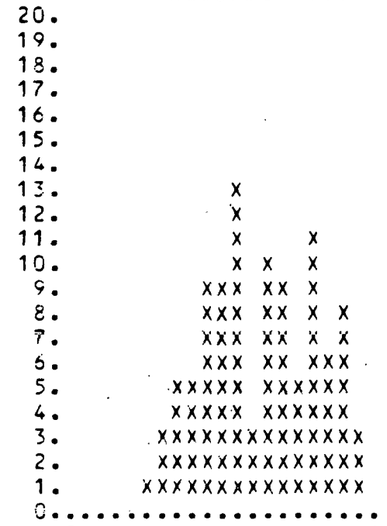
MEAN 1.4 SIGMA .4

U/K RATIO
RECORDS 99



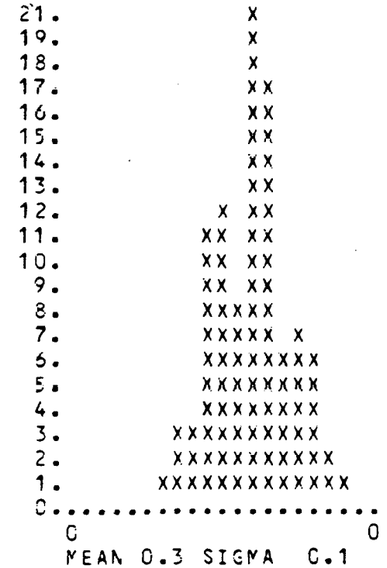
MEAN 1.8 SIGMA .5

URANIUM PPM
RECORDS 101



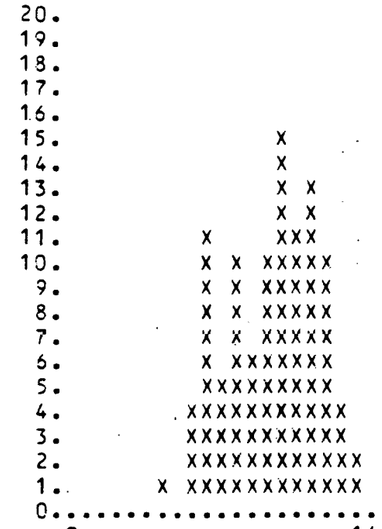
MEAN 2.4 SIGMA 0.7

U/T RATIO
RECORDS 99



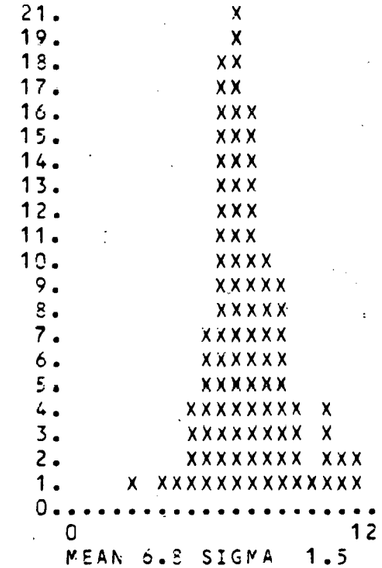
MEAN 0.3 SIGMA .1

THORIUM PPM
RECORDS 103



MEAN 9.5 SIGMA 2.1

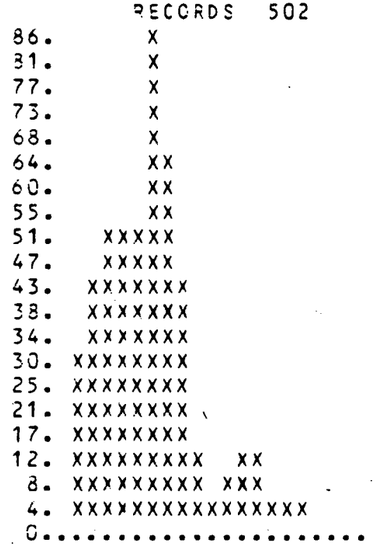
T/K RATIO
RECORDS 102



MEAN 6.8 SIGMA 1.5

ARIZONA-HOLBROCK NE 12-5 QUADRANGLE

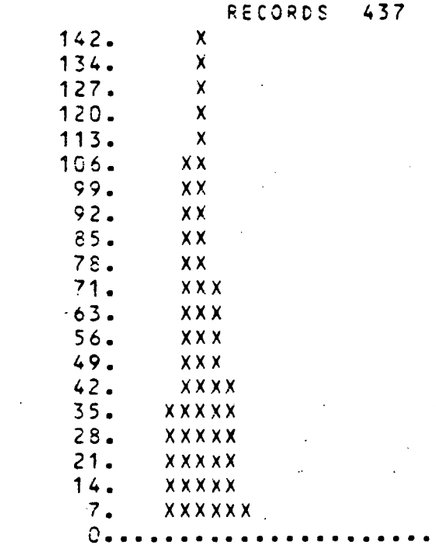
POTASSIUM%
RECORDS 502



MEAN 1.4 SIGMA 0.7

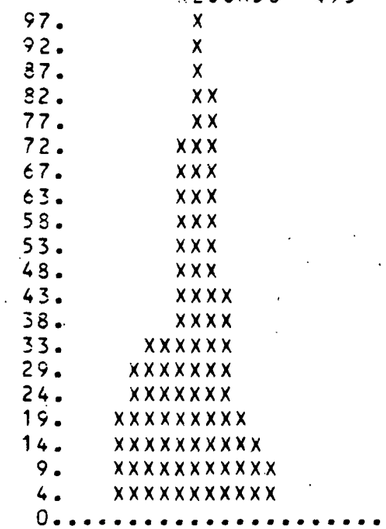
GEOLOGIC UNIT TU

URANIUM PPM
RECORDS 437



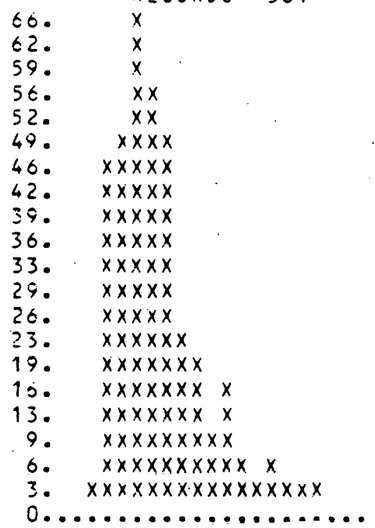
MEAN 1.5 SIGMA 0.4

THORIUM PPM
RECORDS 495



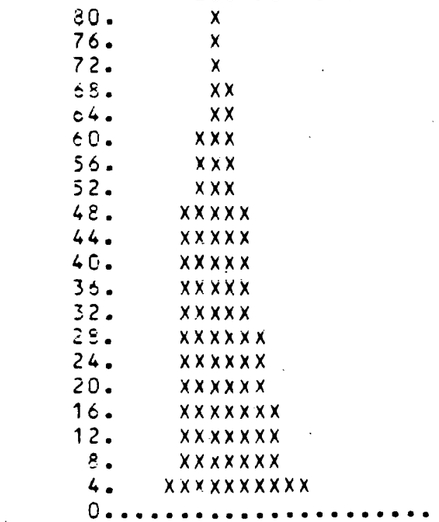
MEAN 4.8 SIGMA 1.6

U/K RATIO
RECORDS 381



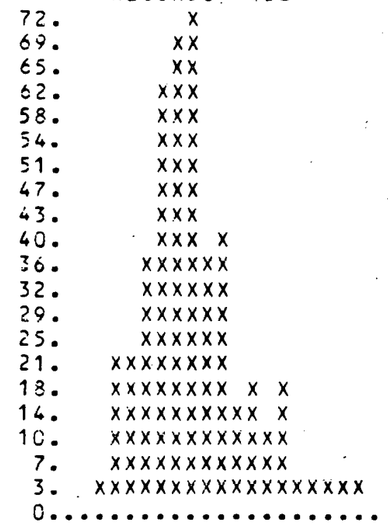
MEAN 1.1 SIGMA 0.5

U/T RATIO
RECORDS 379



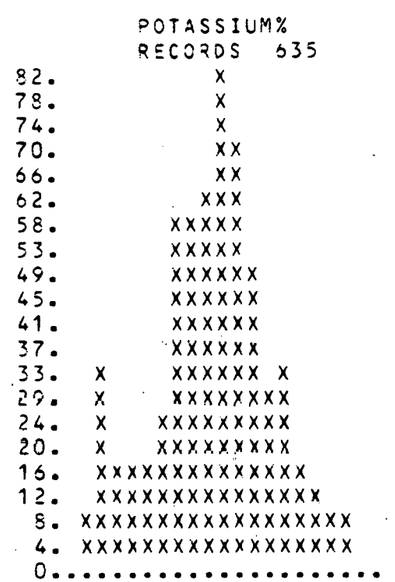
MEAN 0.3 SIGMA 0.1

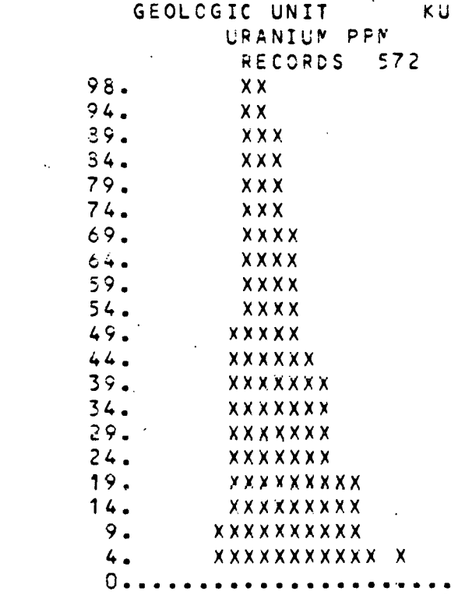
T/K RATIO
RECORDS 458

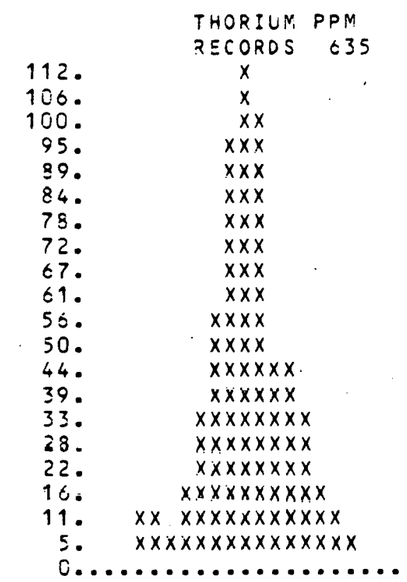


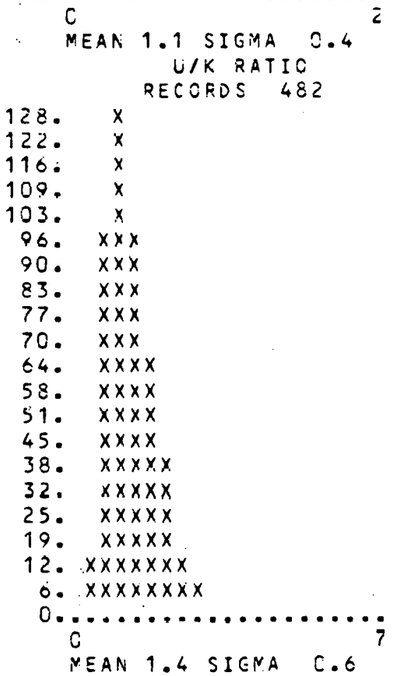
MEAN 3.7 SIGMA 1.4

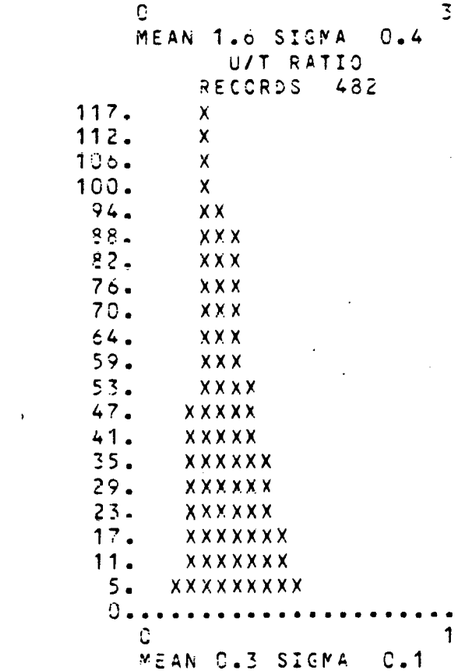
ARIZONA-HOLBROCK NI 12-5 QUADRANGLE
GEOLOGIC UNIT KU

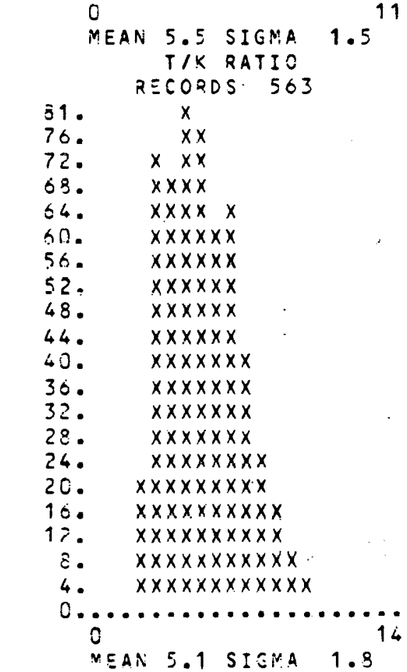




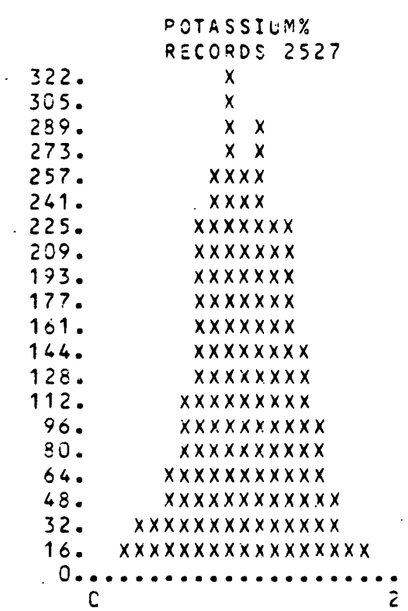


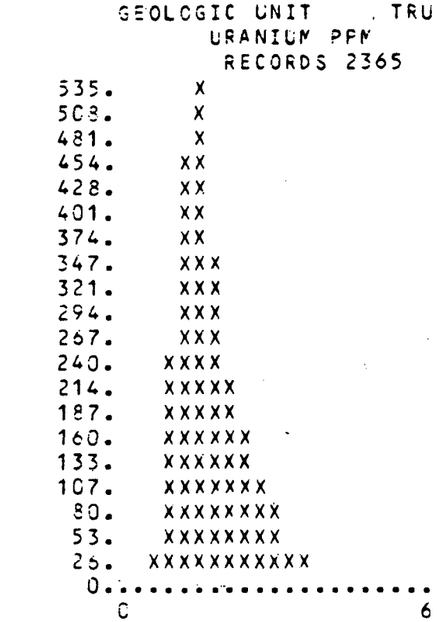


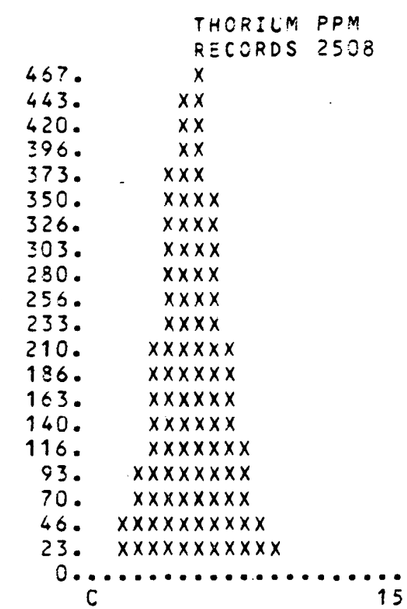


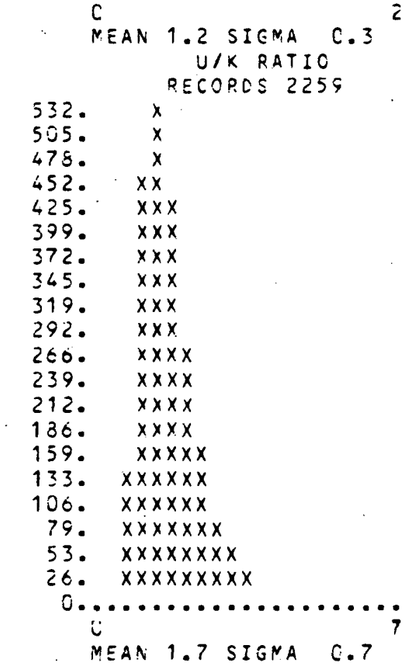


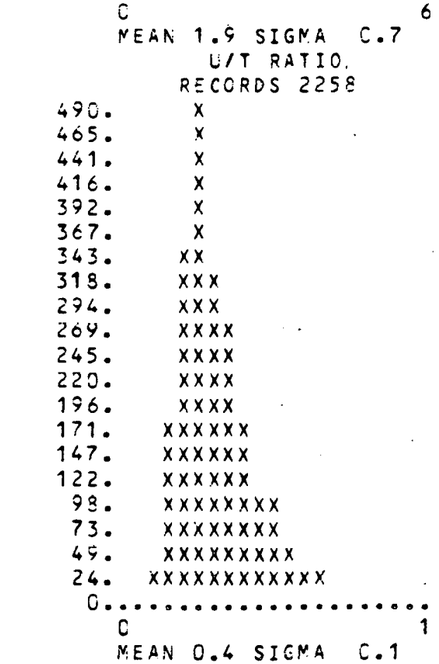
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT TRU

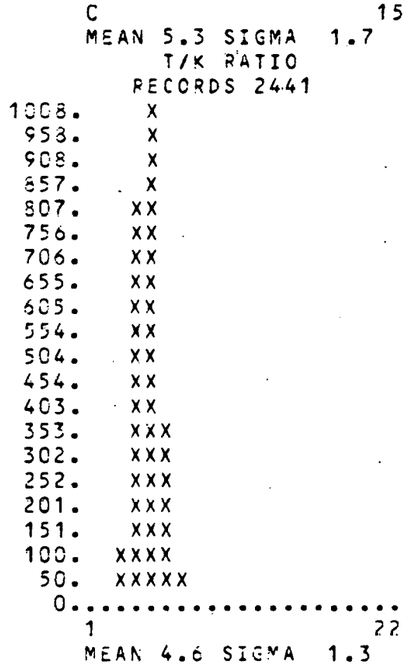




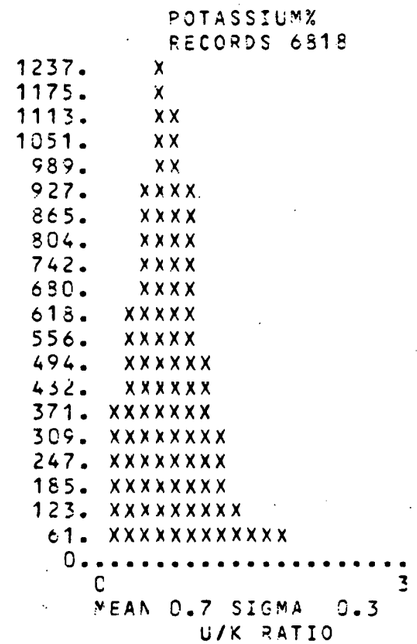


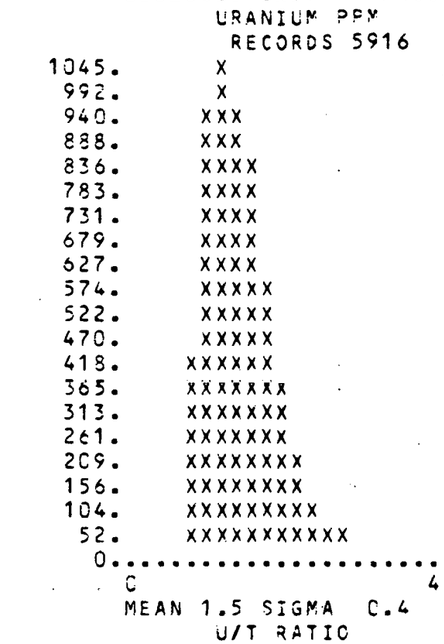


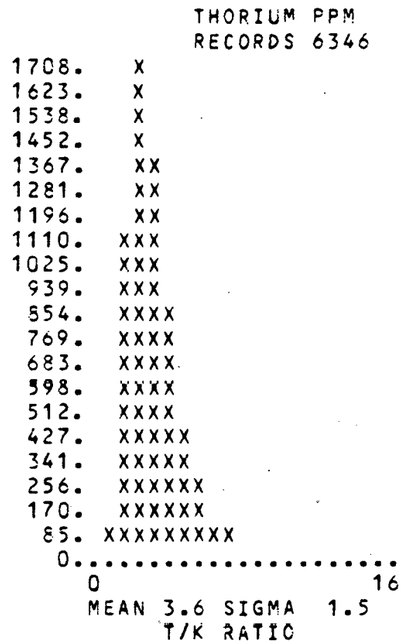


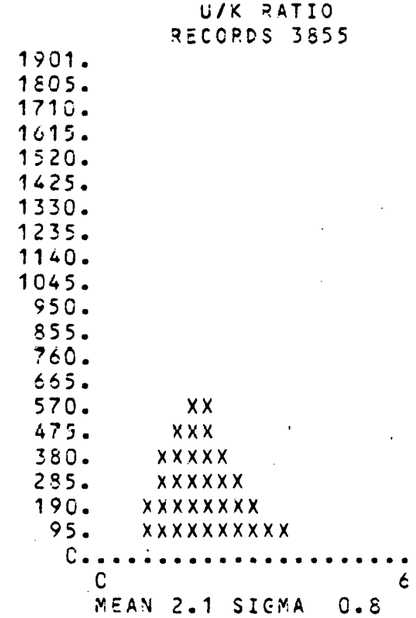


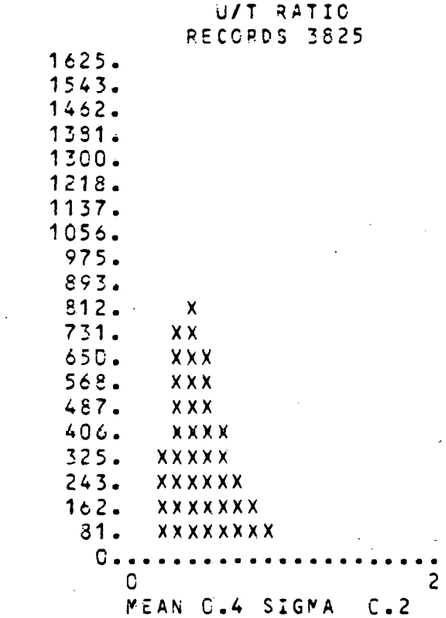
ARIZONA-HOLBROOK NI 12-5 QLADRANGLE
GEOLOGIC UNIT PKCO

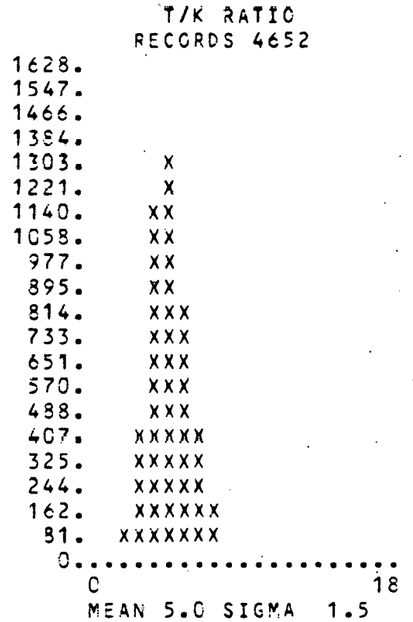






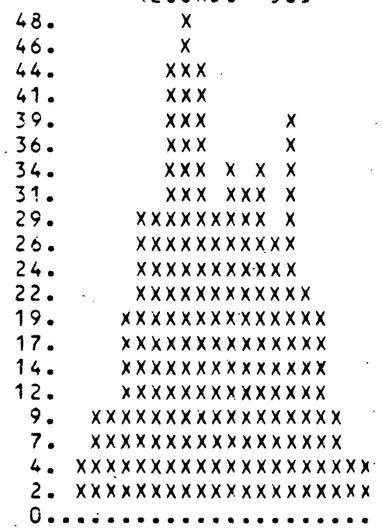






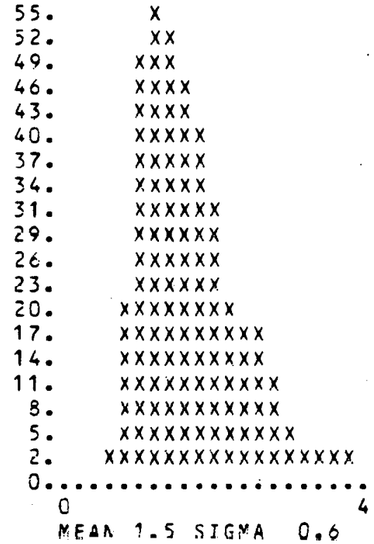
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT PPS

POTASSIUM%
RECORDS 505



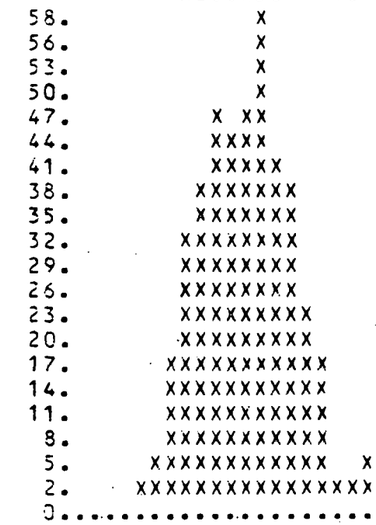
MEAN 1.1 SIGMA 0.5

U/K RATIO
RECORDS 394



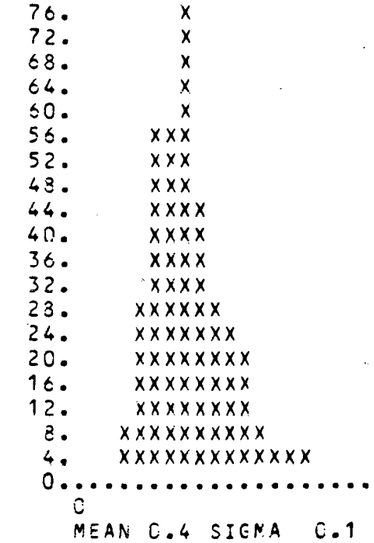
MEAN 1.5 SIGMA 0.6

URANIUM PPM
RECORDS 440



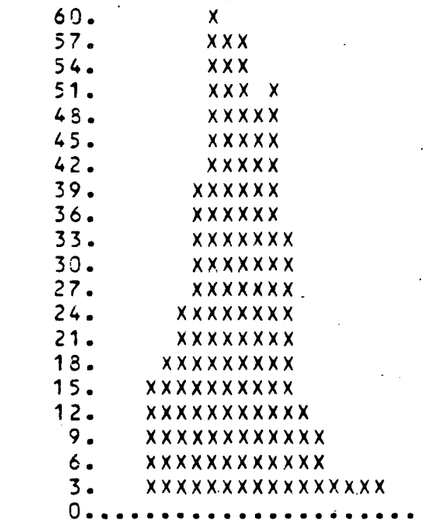
MEAN 1.6 SIGMA 0.4

U/T RATIO
RECORDS 381



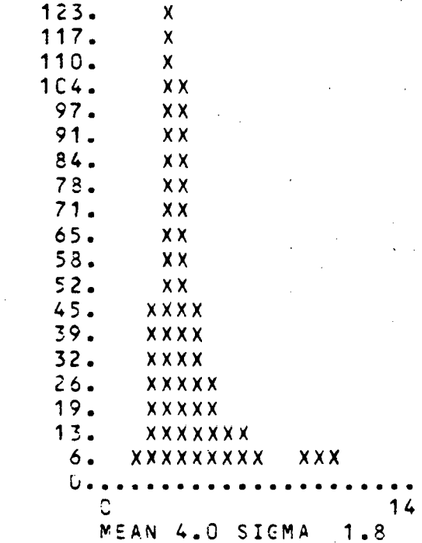
MEAN 0.4 SIGMA 0.1

THORIUM PPM
RECORDS 458



MEAN 4.5 SIGMA 1.5

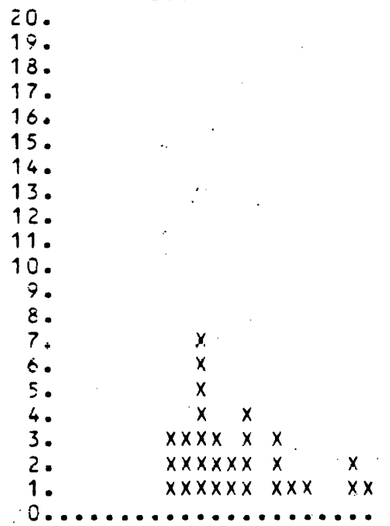
T/K RATIO
RECORDS 444



MEAN 4.0 SIGMA 1.8

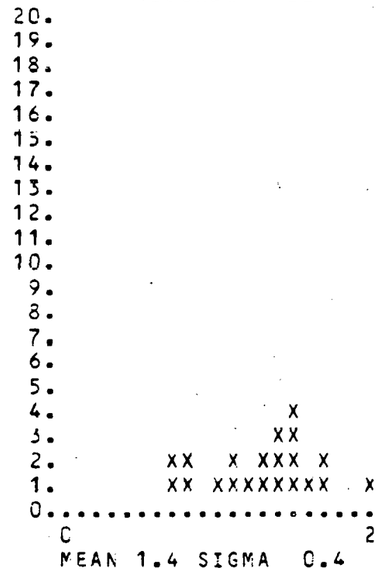
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT FM

POTASSIUM%
RECORDS 31



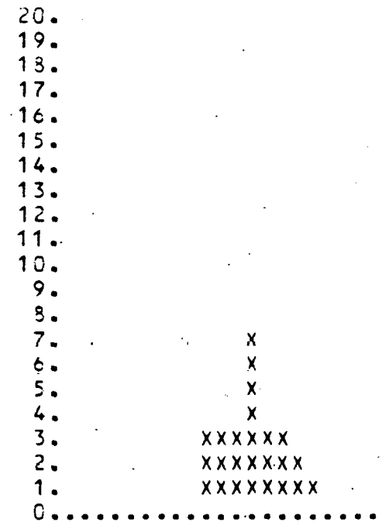
MEAN 0.9 SIGMA 0.3

U/K RATIO
RECORDS 22



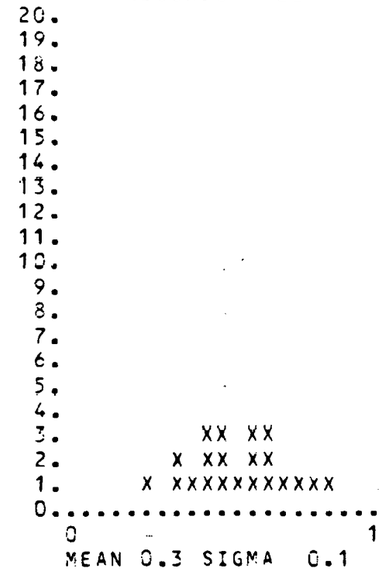
MEAN 1.4 SIGMA 0.4

URANIUM PPM
RECORDS 26



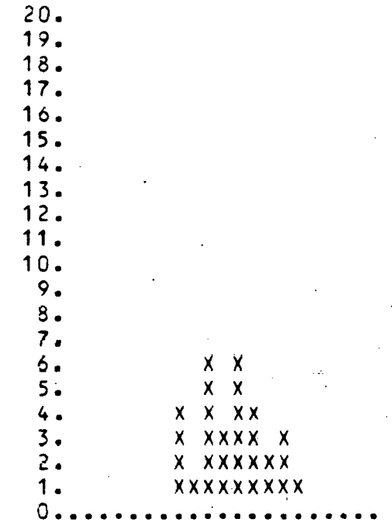
MEAN 1.2 SIGMA 0.2

U/T RATIO
RECORDS 22



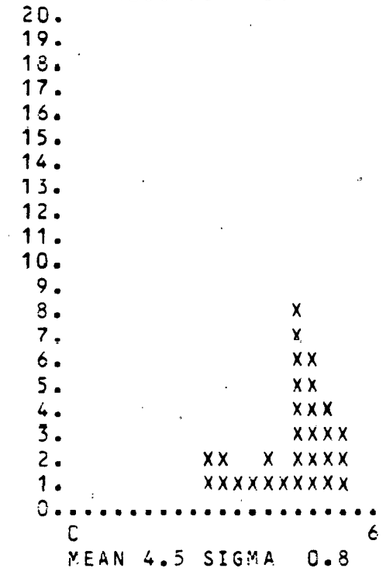
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 31



MEAN 4.0 SIGMA 1.0

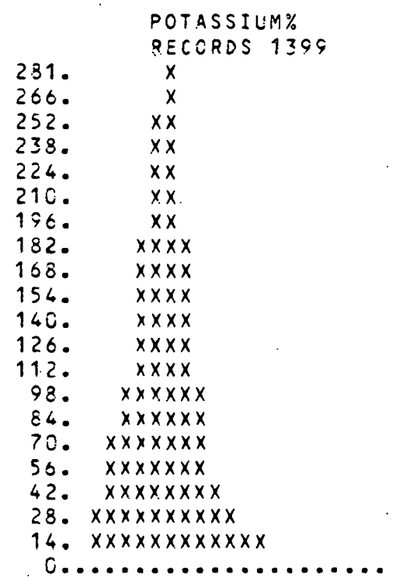
T/K RATIO
RECORDS 31

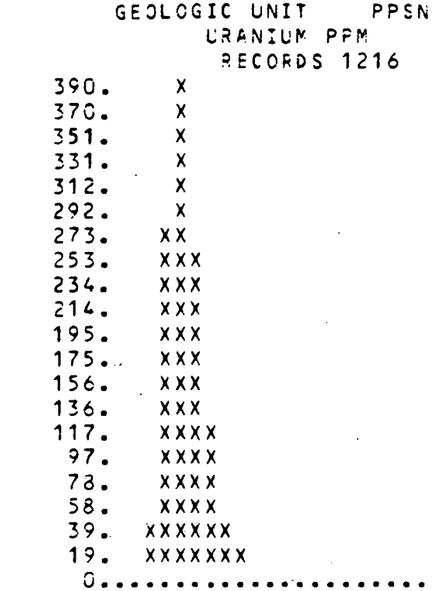


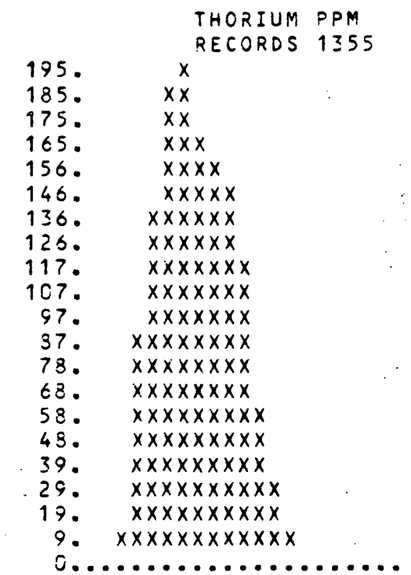
MEAN 4.5 SIGMA 0.8

ARIZONA-HOLBROCK NI 12-5 QUADRANGLE

GEOLOGIC UNIT PPSN

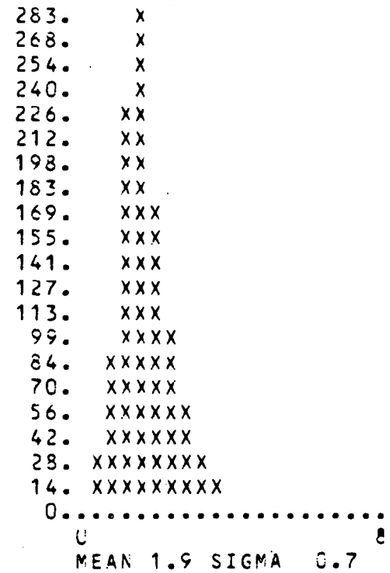






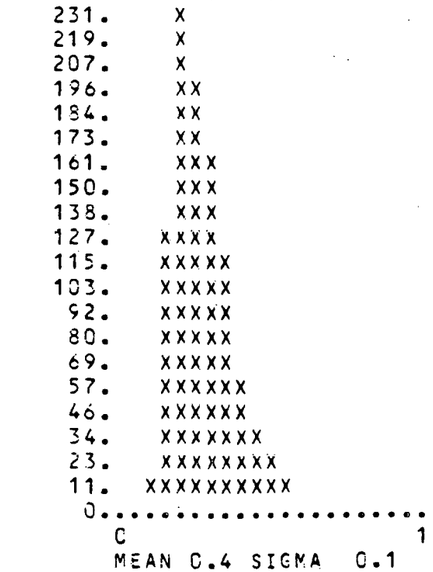
U/K RATIO

RECORDS 1046



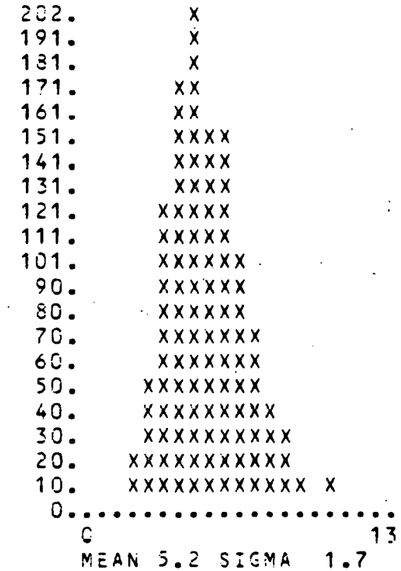
U/T RATIO

RECORDS 1039



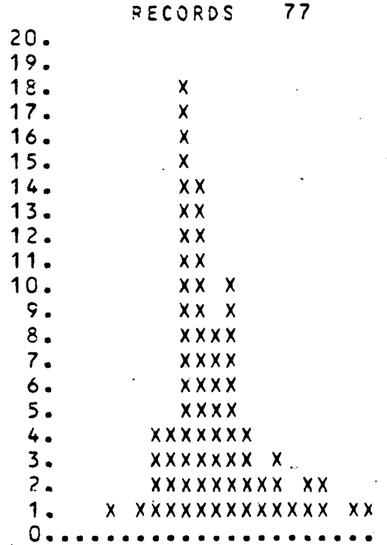
T/K RATIO

RECORDS 1206



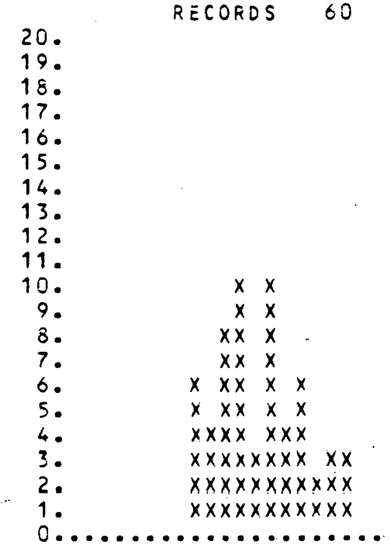
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT MDU

POTASSIUM%
RECORDS 77



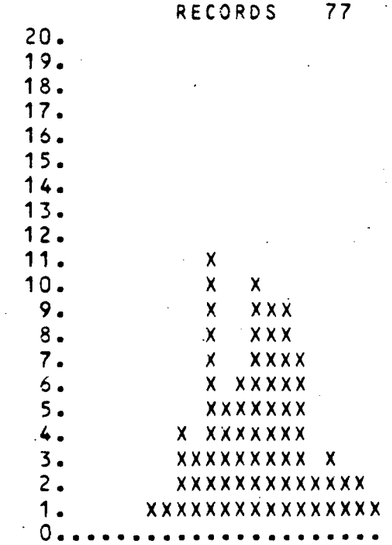
MEAN 0.8 SIGMA 0.2

URANIUM PPM
RECORDS 60



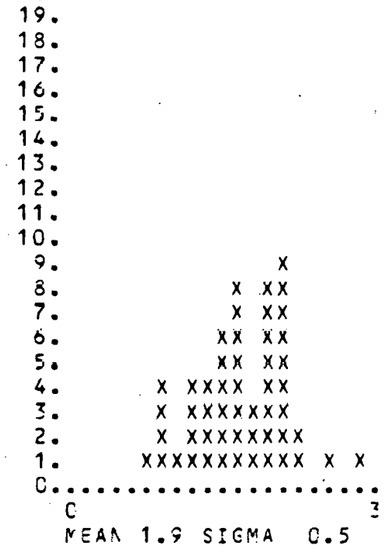
MEAN 1.4 SIGMA 0.3

THORIUM PPM
RECORDS 77



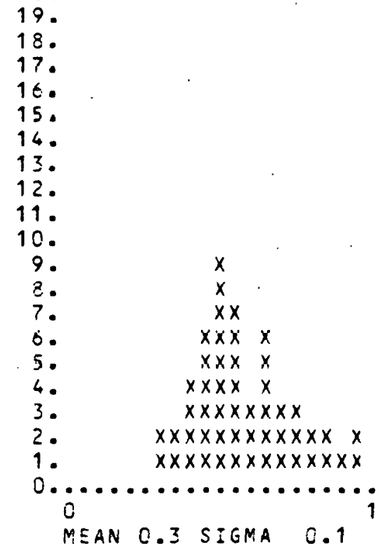
MEAN 4.6 SIGMA 1.2

U/K RATIO
RECORDS 53



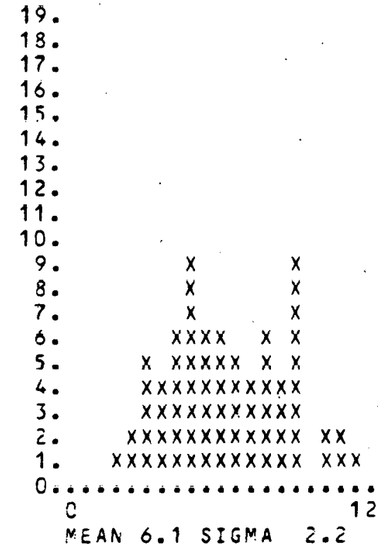
MEAN 1.9 SIGMA 0.5

U/T RATIO
RECORDS 53



MEAN 0.3 SIGMA 0.1

T/K RATIO
RECORDS 73

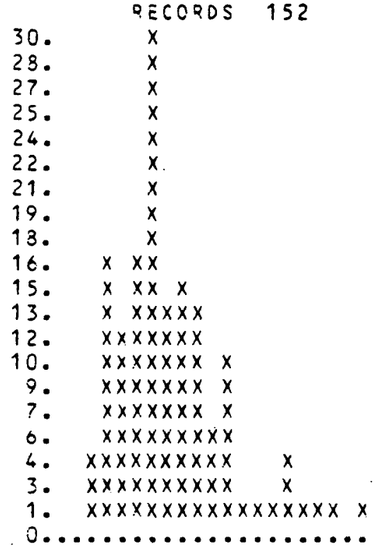


MEAN 6.1 SIGMA 2.2

ARIZONA-HOLBROOK NE 12-5 QUADRANGLE

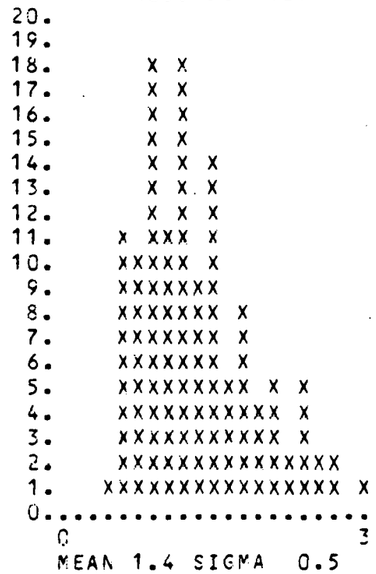
GEOLOGIC UNIT CTS

POTASSIUM%
RECORDS 152



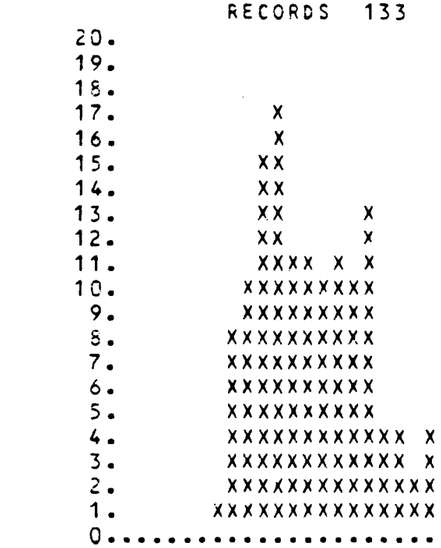
MEAN 1.4 SIGMA 0.6

U/K RATIO
RECORDS 127



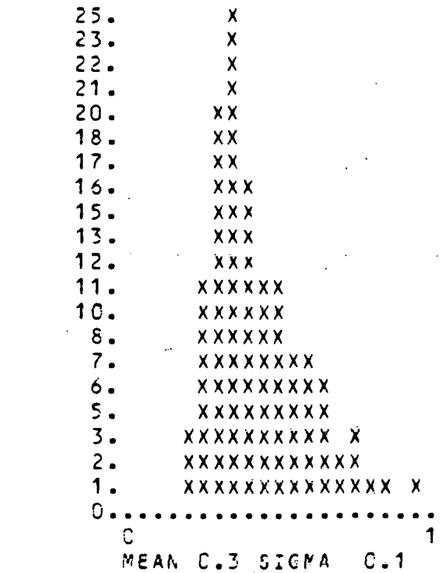
MEAN 1.4 SIGMA 0.5

URANIUM PPM
RECORDS 133



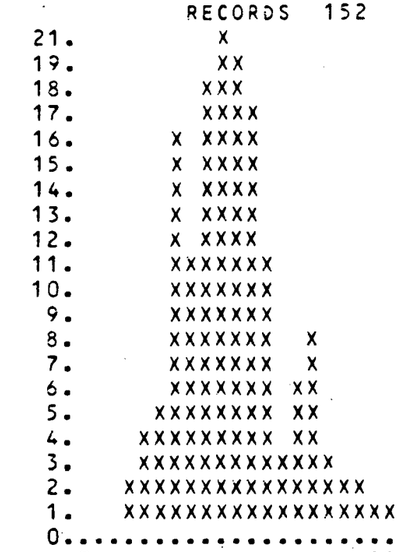
MEAN 1.7 SIGMA 0.5

U/T RATIO
RECORDS 127



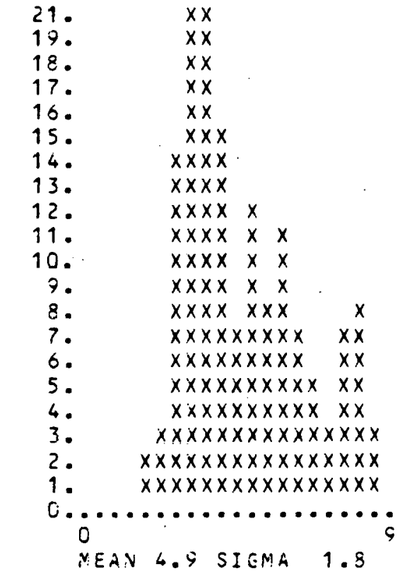
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 152



MEAN 6.1 SIGMA 2.0

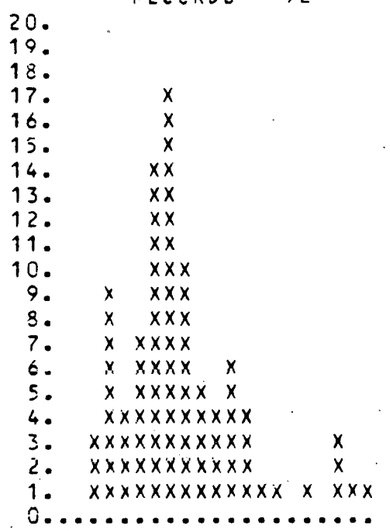
T/K RATIO
RECORDS 148



MEAN 4.9 SIGMA 1.8

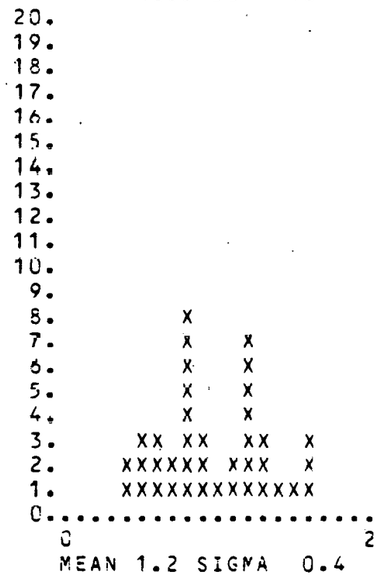
ARIZONA-HOLBROCK NI 12-5 QUADRANGLE
GEOLOGIC UNIT CDU

POTASSIUM%
RECORDS 92



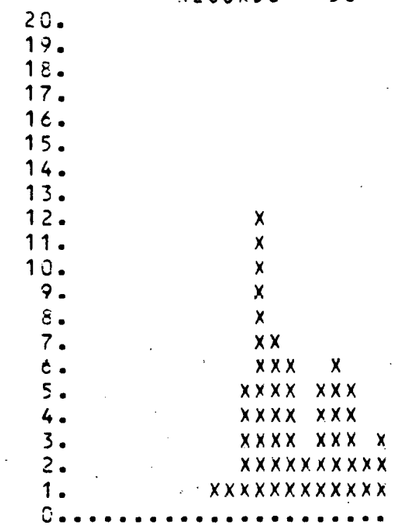
MEAN 1.0 SIGMA 0.5

U/K RATIO
RECORDS 40



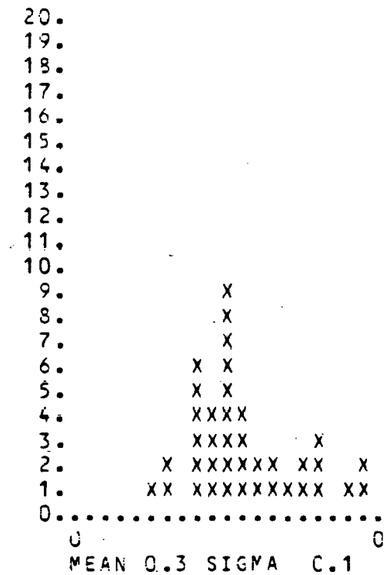
MEAN 1.2 SIGMA 0.4

URANIUM PPM
RECORDS 56



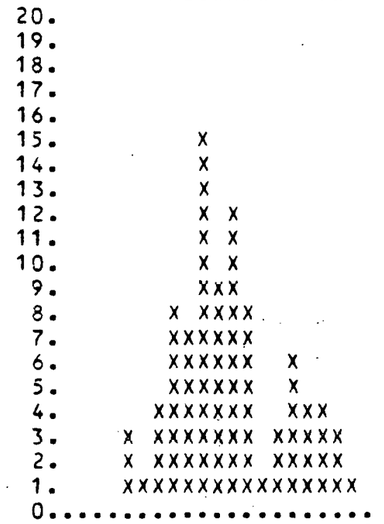
MEAN 1.2 SIGMA 0.2

U/T RATIO
RECORDS 40



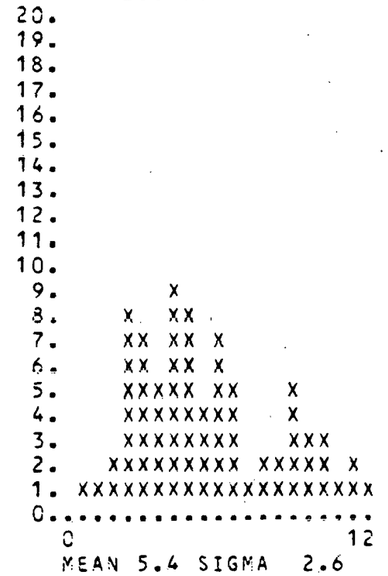
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 90



MEAN 5.1 SIGMA 1.7

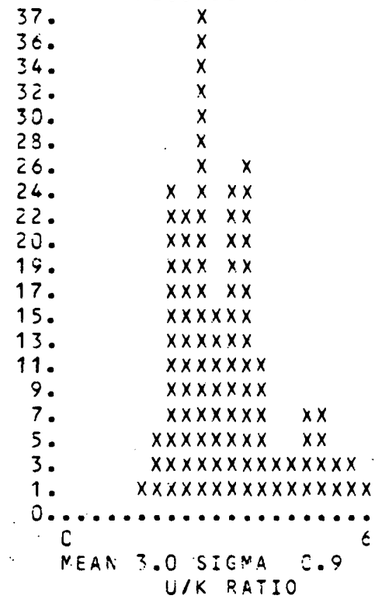
T/K RATIO
RECORDS 78



MEAN 5.4 SIGMA 2.6

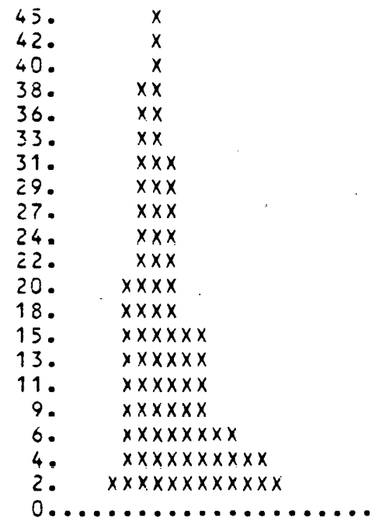
ARIZONA-HOLBROCK NI 12-5 QUADRANGLE
GEOLOGIC UNIT PCA

POTASSIUM%
RECORDS 197



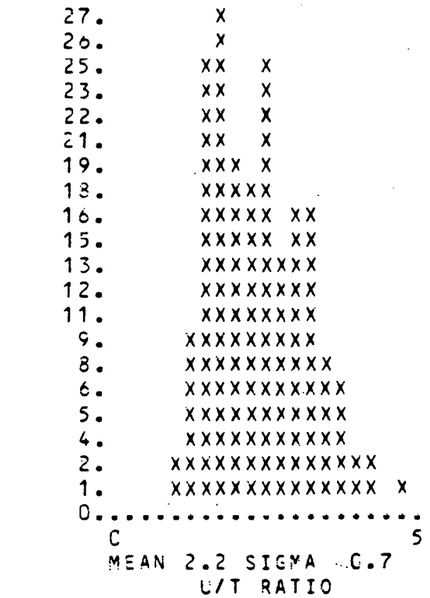
MEAN 3.0 SIGMA 0.9

U/K RATIO
RECORDS 196



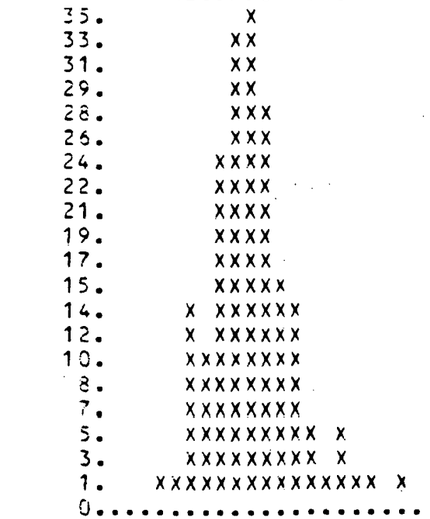
MEAN 0.7 SIGMA 0.3

URANIUM PPM
RECORDS 196



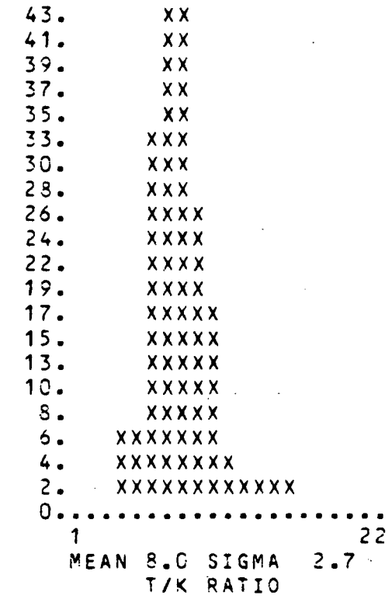
MEAN 2.2 SIGMA 0.7

U/T RATIO
RECORDS 196



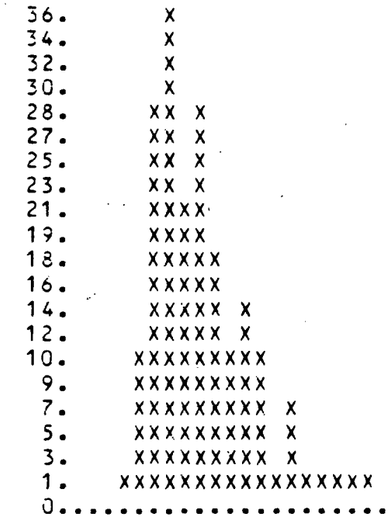
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 197



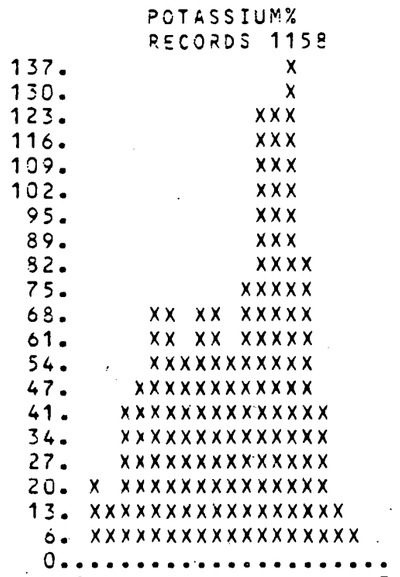
MEAN 8.0 SIGMA 2.7

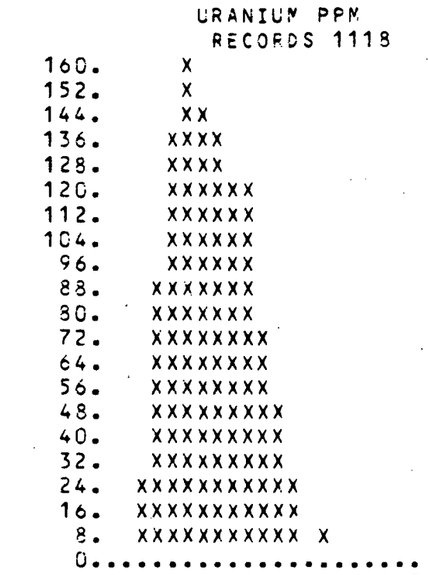
T/K RATIO
RECORDS 197

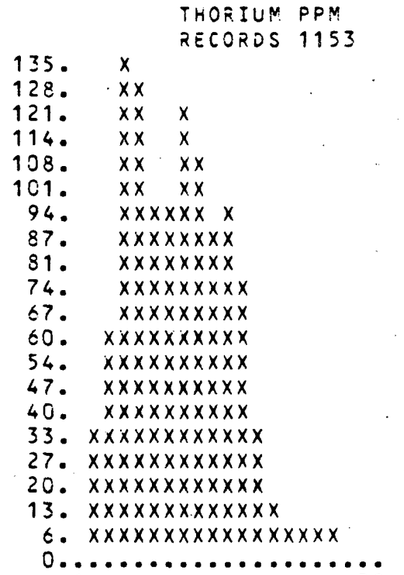


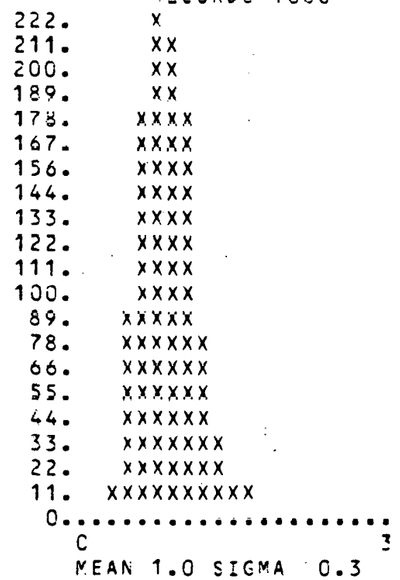
MEAN 2.8 SIGMA 1.0

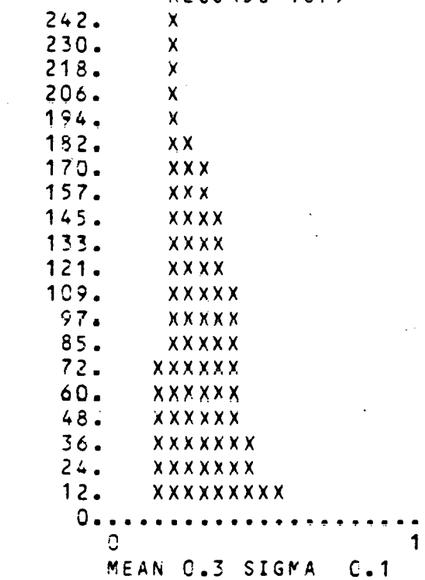
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT PCGR

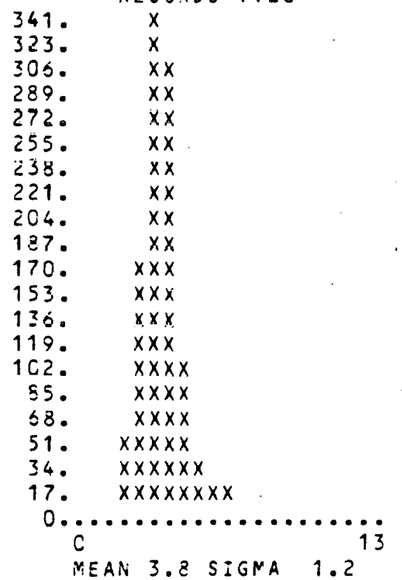












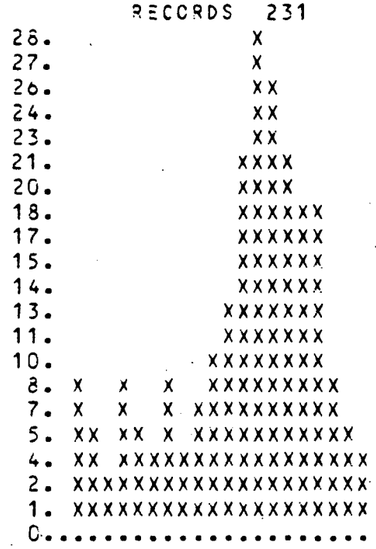
U/K RATIO
RECORDS 1080

T/K RATIO
RECORDS 1128

U/T RATIO
RECORDS 1079

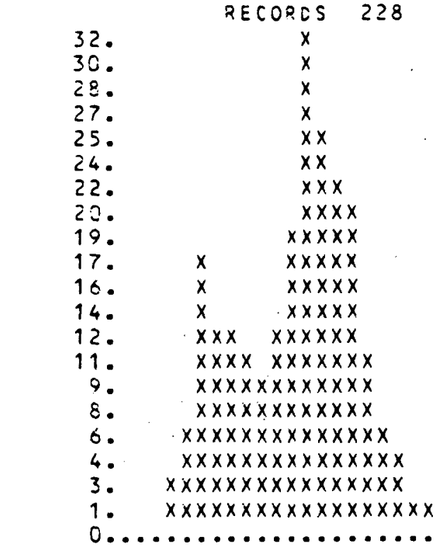
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT PCR

POTASSIUM%
RECORDS 231



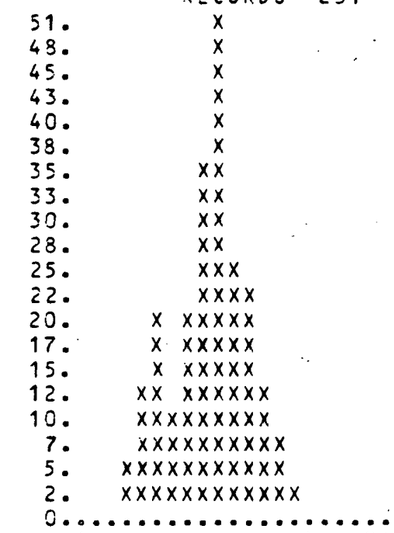
MEAN 2.6 SIGMA 0.9

URANIUM PPM
RECORDS 228



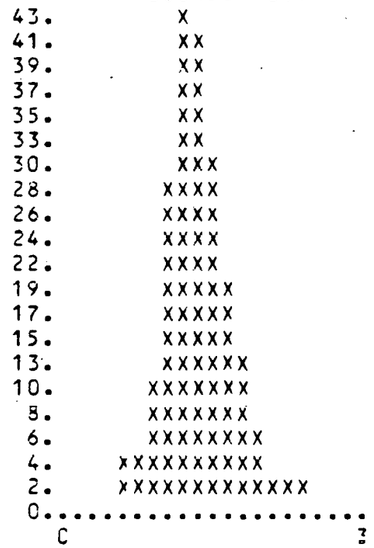
MEAN 3.1 SIGMA 1.0

THORIUM PPM
RECORDS 231



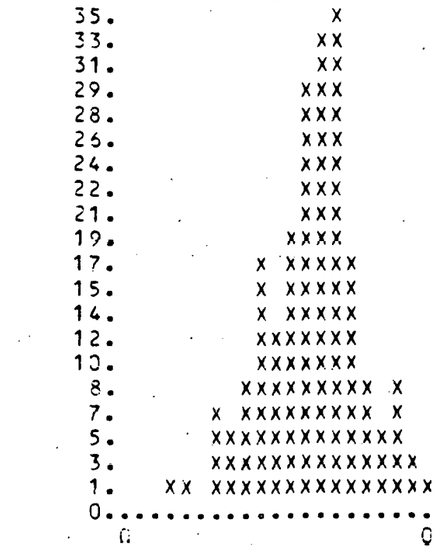
MEAN10.4 SIGMA 3.0

U/K RATIO
RECORDS 219



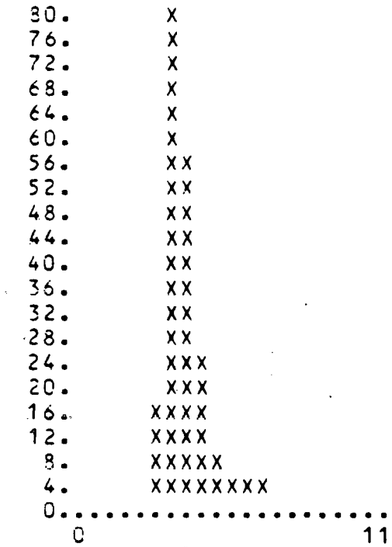
MEAN 1.2 SIGMA 0.3

U/T RATIO
RECORDS 219



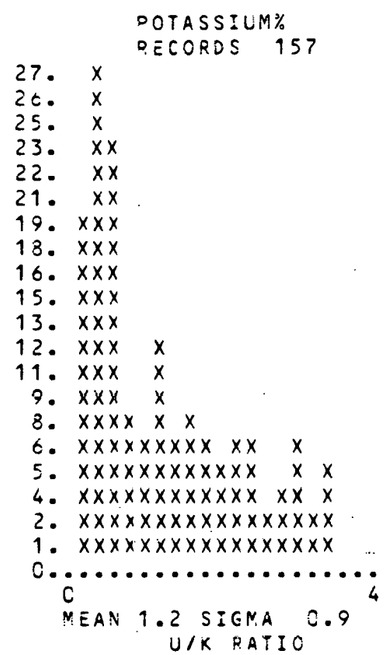
MEAN 0.3 SIGMA 0.1

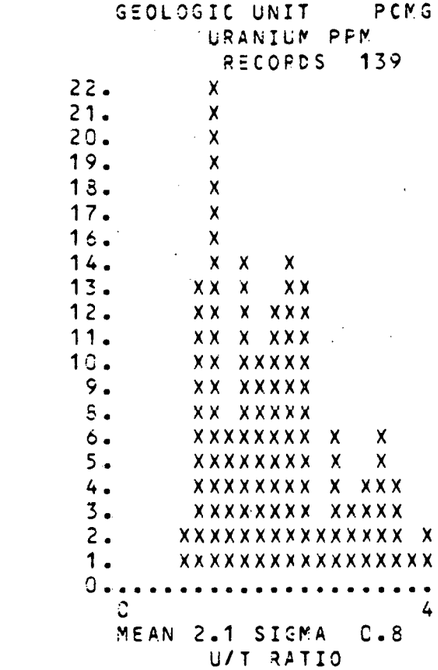
T/K RATIO
RECORDS 221

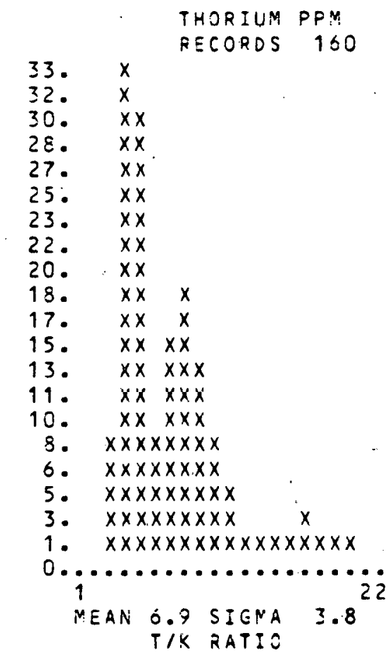


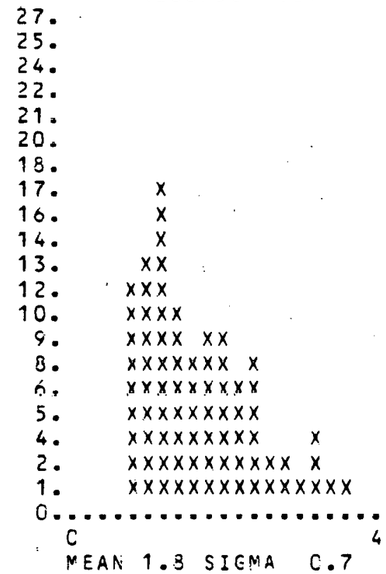
MEAN 4.2 SIGMA 1.3

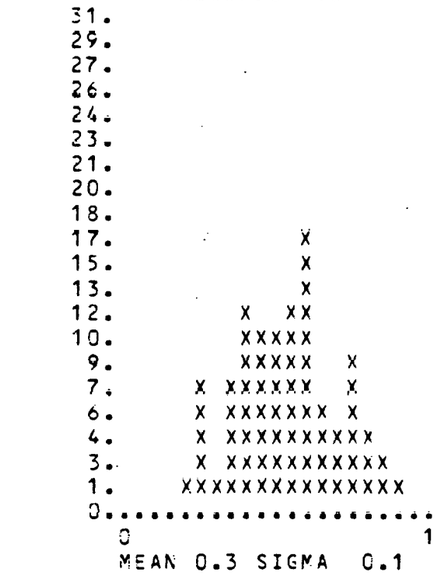
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT PCMG

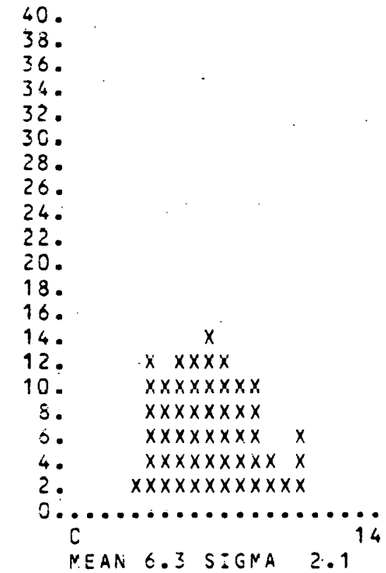






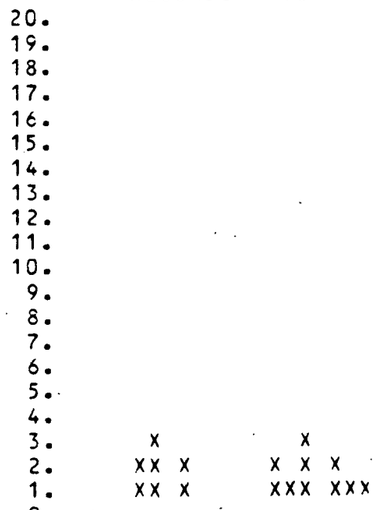






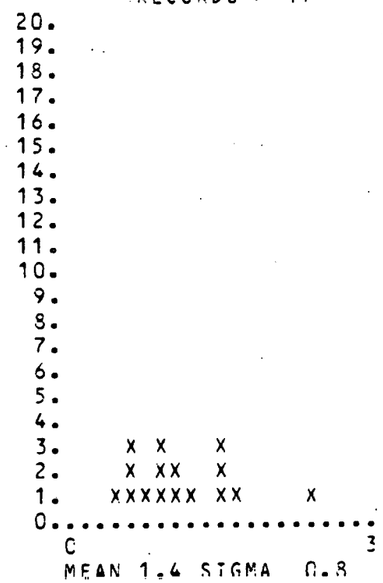
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT PCSCH

POTASSIUM%
RECORDS 18



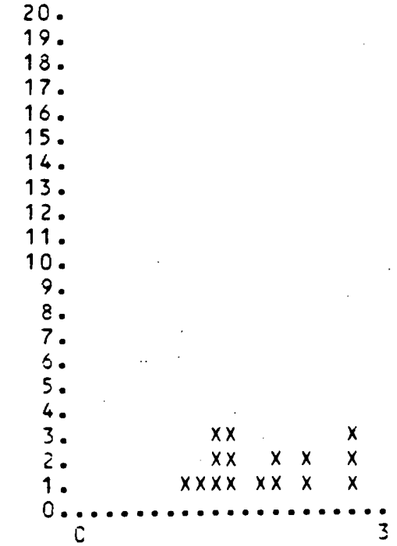
MEAN 1.4 SIGMA 0.6

U/K RATIO
RECORDS 17



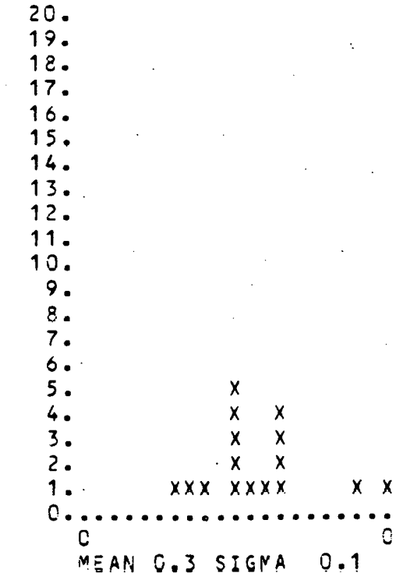
MEAN 1.4 SIGMA 0.8

URANIUM PPM
RECORDS 17



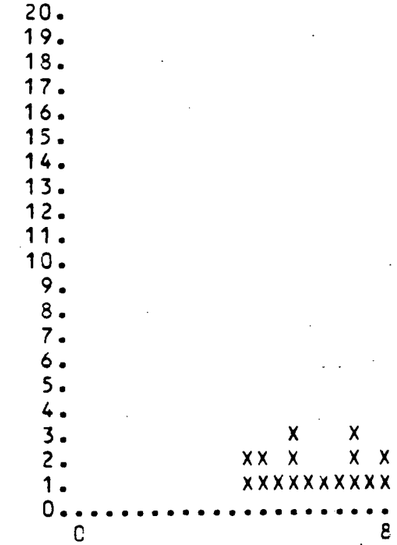
MEAN 1.8 SIGMA 0.6

U/T RATIO
RECORDS 17



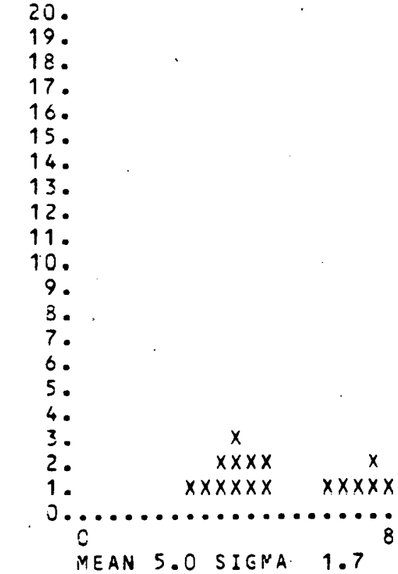
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 18



MEAN 6.3 SIGMA 1.2

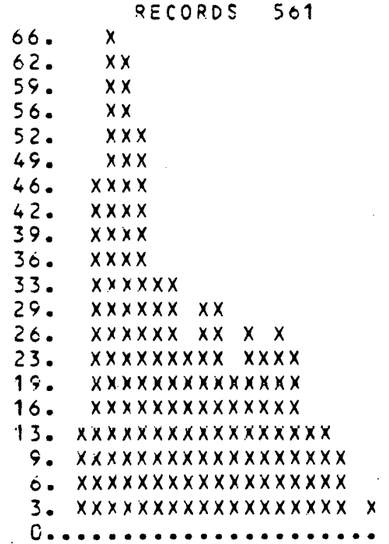
T/K RATIO
RECORDS 18



MEAN 5.0 SIGMA 1.7

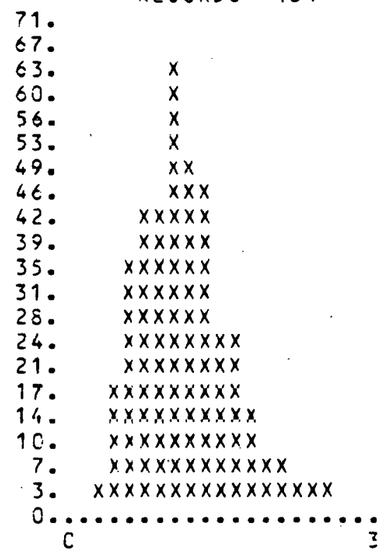
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT PCM

POTASSIUM%
RECORDS 561



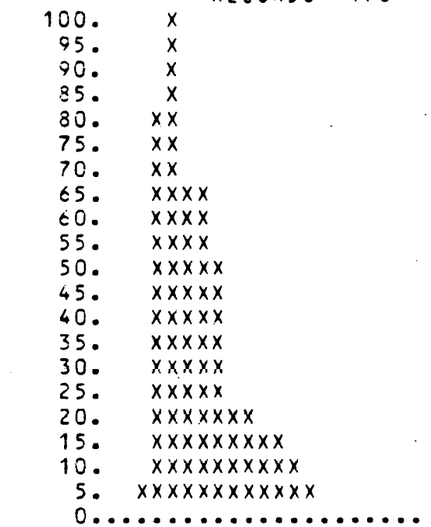
MEAN 1.6 SIGMA 0.9

U/K RATIO
RECORDS 404



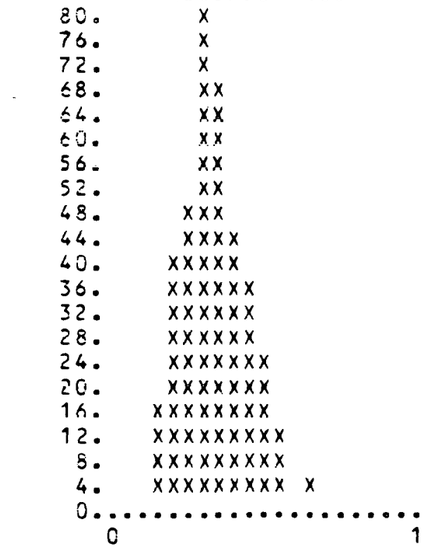
MEAN 1.1 SIGMA 0.4

URANIUM PPM
RECORDS 476



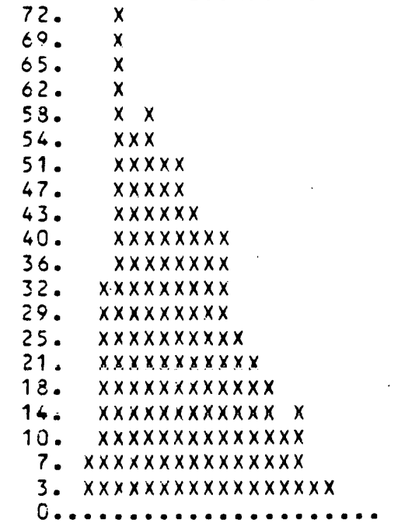
MEAN 1.8 SIGMA 0.8

U/T RATIO
RECORDS 403



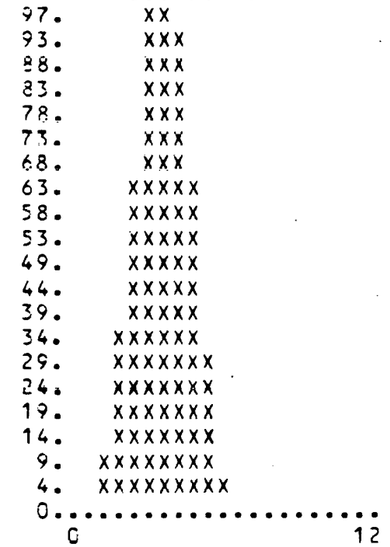
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 559



MEAN 5.9 SIGMA 2.9

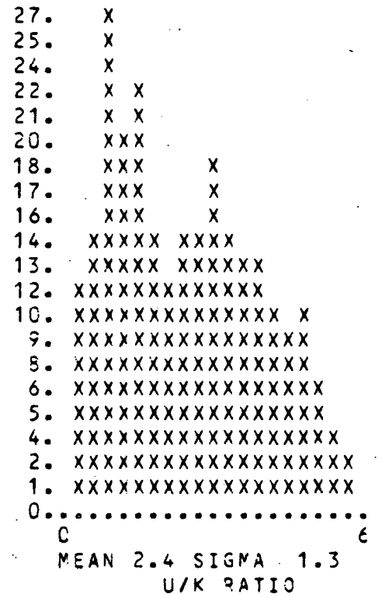
T/K RATIO
RECORDS 527



MEAN 3.9 SIGMA 1.5

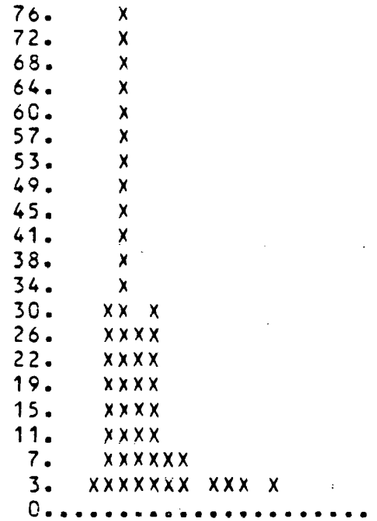
ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
GEOLOGIC UNIT PCU

POTASSIUM%
RECORDS 256



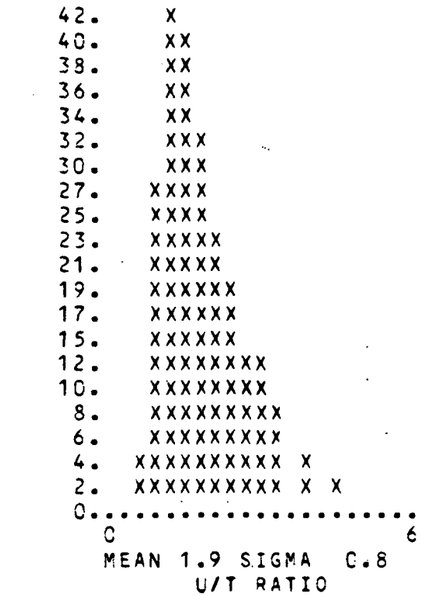
MEAN 2.4 SIGMA 1.3

U/K RATIO
RECORDS 215



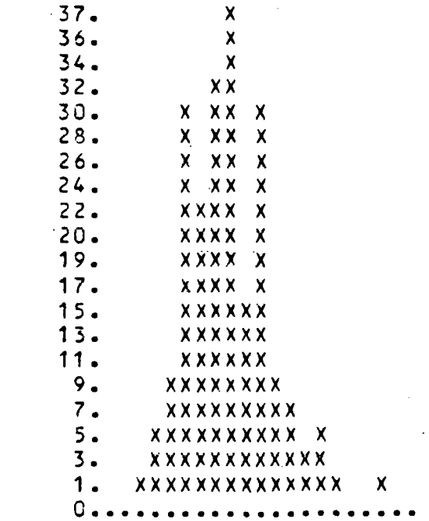
MEAN 0.9 SIGMA 0.4

URANIUM PPM
RECORDS 233



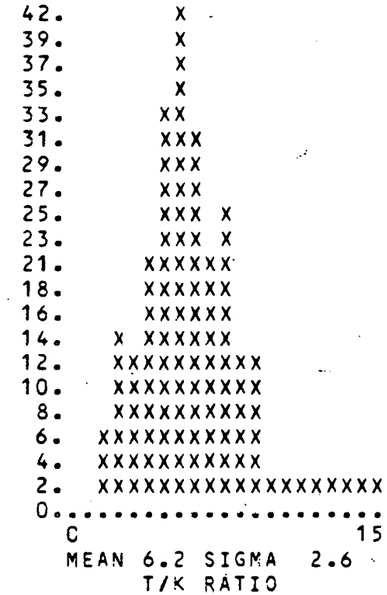
MEAN 1.9 SIGMA 0.8

U/T RATIO
RECORDS 214



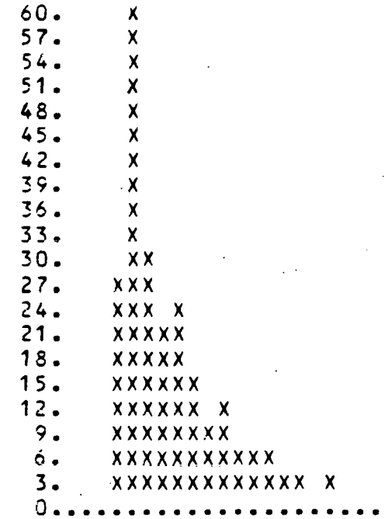
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 252



MEAN 6.2 SIGMA 2.6

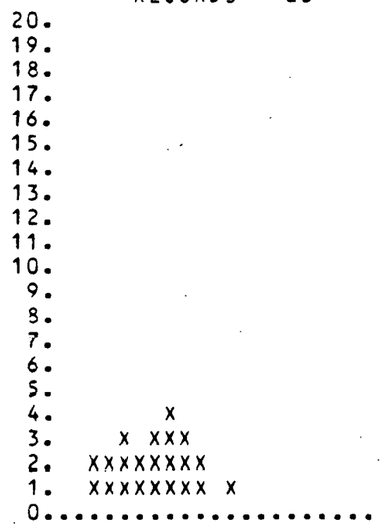
T/K RATIO
RECORDS 245



MEAN 3.1 SIGMA 1.6

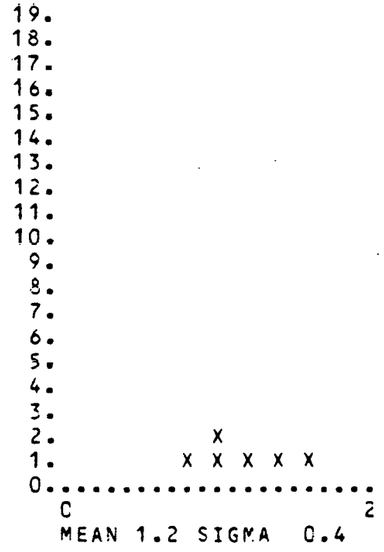
ARIZONA-HOLBROCK NI 12-5 QUADRANGLE
GEOLOGIC UNIT MDCPC

POTASSIUM%
RECORDS 23



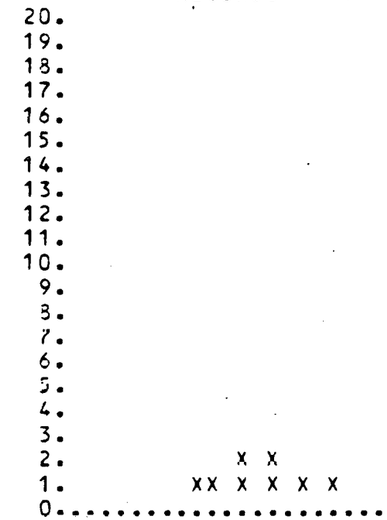
MEAN 0.8 SIGMA 0.4

U/K RATIO
RECORDS 7



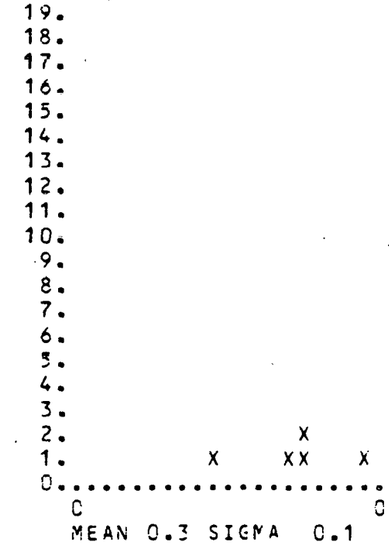
MEAN 1.2 SIGMA 0.4

URANIUM PPM
RECORDS 9



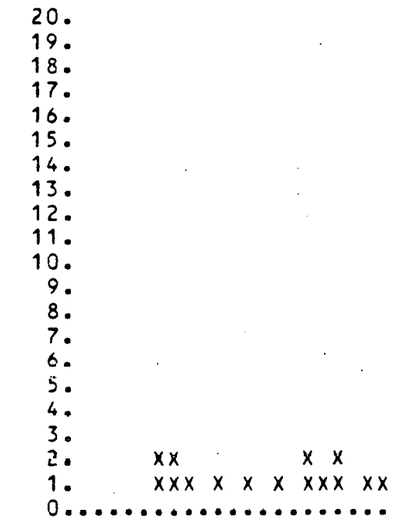
MEAN 1.2 SIGMA 0.4

U/T RATIO
RECORDS 6



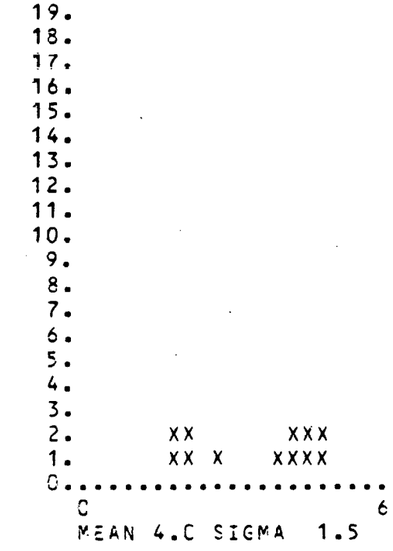
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 16



MEAN 3.5 SIGMA 1.5

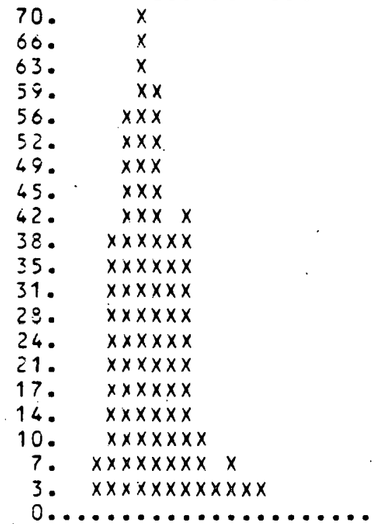
T/K RATIO
RECORDS 13



MEAN 4.0 SIGMA 1.5

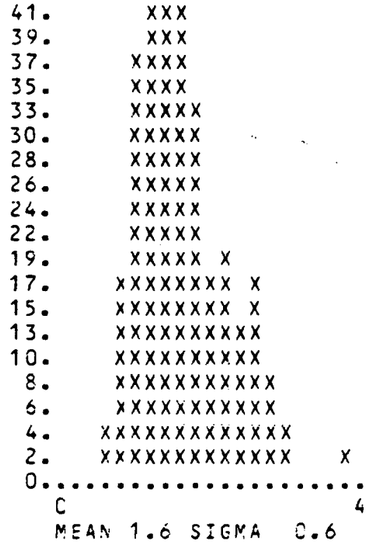
ARIZONA-HOLBROOK NI 12-5 QLADRANGLE
GEOLOGIC UNIT PnMD

POTASSIUM%
RECORDS 356



MEAN 1.0 SIGMA 0.4

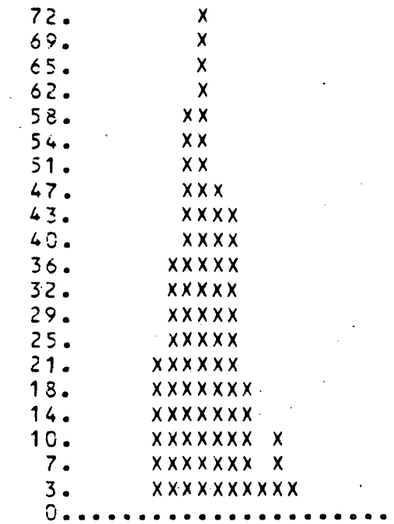
U/K RATIO
RECORDS 314



MEAN 1.6 SIGMA 0.6

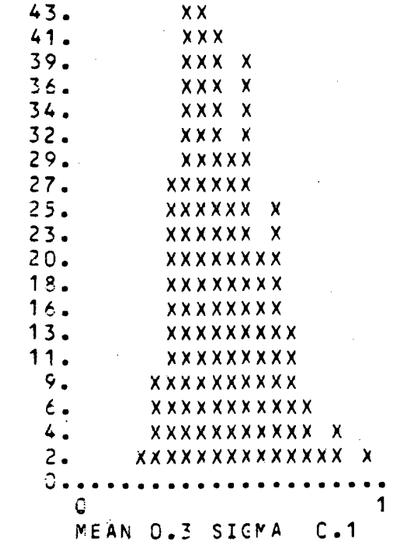
ARIZONA-HOLBROOK NI 12-5 QLADRANGLE
GEOLOGIC UNIT PnMD

URANIUM PPM
RECORDS 336



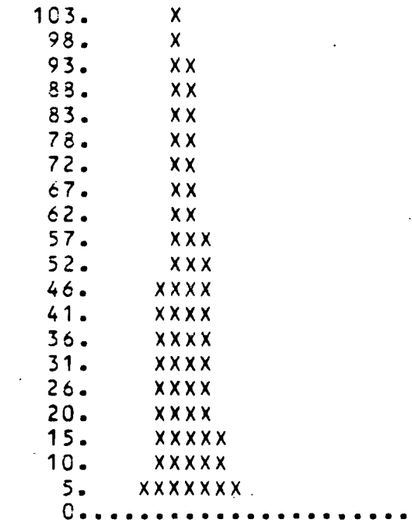
MEAN 1.6 SIGMA 0.4

U/T RATIO
RECORDS 314



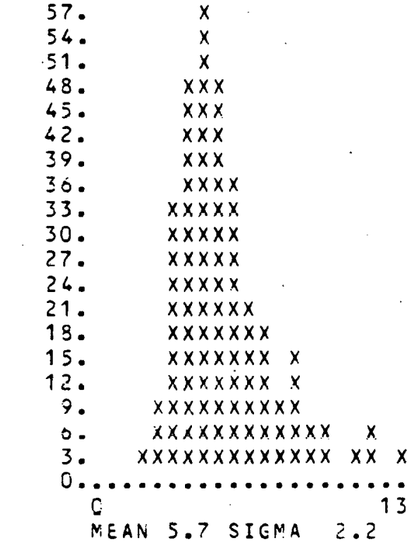
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 356



MEAN 5.5 SIGMA 1.8

T/K RATIO
RECORDS 344



MEAN 5.7 SIGMA 2.2

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE
STATISTICAL SUMMARY

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	1776.0	1.2	0.4	2.1	0.8	5.8	2.1	1.8	0.9	0.4	0.2	5.0	1.7
102.	QTL	195.0	1.6	0.8	2.3	1.1	8.0	4.5	1.7	1.5	0.3	0.2	5.3	1.7
103.	QTU	1757.0	1.5	0.8	1.8	0.9	5.9	2.3	1.5	1.2	0.3	0.3	4.4	1.6
104.	QB	18.0	1.5	0.2	1.5	0.3	5.1	0.9	1.0	0.3	0.3	0.1	3.5	0.5
106.	QTV	4683.0	0.9	0.5	1.7	0.6	6.7	2.4	1.9	0.7	0.3	0.1	7.6	2.5
108.	TS	65.0	2.1	1.0	2.2	0.7	10.0	4.1	1.3	0.8	0.2	0.1	6.4	4.2
109.	TD	183.0	2.0	1.1	1.8	0.8	5.5	3.4	0.8	0.2	0.3	0.1	2.7	1.2
112.	TI	101.0	1.4	0.4	2.4	0.7	9.5	2.1	1.8	0.5	0.3	0.1	6.8	1.5
116.	TU	437.0	1.4	0.7	1.5	0.4	4.8	1.6	1.1	0.5	0.3	0.1	3.7	1.4
205.	KU	572.0	1.1	0.4	1.6	0.4	5.5	1.5	1.4	0.6	0.3	0.1	5.1	1.8
209.	TRU	2365.0	1.2	0.3	1.9	0.7	5.3	1.7	1.7	0.7	0.4	0.1	4.6	1.3
303.	PKCO	5916.0	0.7	0.3	1.5	0.4	3.6	1.5	2.1	0.8	0.4	0.2	5.0	1.5
304.	PPS	440.0	1.1	0.5	1.6	0.4	4.5	1.5	1.5	0.6	0.4	0.1	4.0	1.8
305.	PM	26.0	0.9	0.3	1.2	0.2	4.0	1.0	1.4	0.4	0.3	0.1	4.5	0.8
306.	PPSN	1216.0	0.8	0.3	1.5	0.5	4.4	1.5	1.9	0.7	0.4	0.1	5.2	1.7
309.	MDU	60.0	0.8	0.2	1.4	0.3	4.6	1.2	1.9	0.5	0.3	0.1	6.1	2.2
311.	CTS	133.0	1.4	0.6	1.7	0.5	6.1	2.0	1.4	0.5	0.3	0.1	4.9	1.8
312.	CDU	56.0	1.0	0.5	1.2	0.2	5.1	1.7	1.2	0.4	0.3	0.1	5.4	2.6
314.	PCA	196.0	3.0	0.9	2.2	0.7	8.0	2.7	0.7	0.3	0.7	0.1	2.8	1.0
315.	PCGR	1118.0	2.6	1.0	2.6	0.9	10.0	4.8	1.0	0.3	0.3	0.1	3.8	1.2
316.	PCR	228.0	2.6	0.9	3.1	1.0	10.4	3.0	1.2	0.3	0.3	0.1	4.2	1.3
317.	PCMG	139.0	1.2	0.9	2.1	0.8	6.9	3.8	1.8	0.7	0.3	0.1	6.3	2.1
318.	PCSCH	17.0	1.4	0.6	1.8	0.6	6.3	1.2	1.4	0.8	0.3	0.1	5.0	1.7
319.	PCM	476.0	1.6	0.9	1.8	0.8	5.9	2.9	1.1	0.4	0.3	0.1	3.9	1.5
320.	PCU	233.0	2.4	1.3	1.9	0.8	6.2	2.6	0.9	0.4	0.3	0.1	3.1	1.6
321.	MDCPC	9.0	0.8	0.4	1.2	0.4	3.5	1.5	1.2	0.4	0.3	0.1	4.0	1.5
322.	PnMD	336.0	1.0	0.4	1.6	0.4	5.5	1.8	1.6	0.6	0.3	0.1	5.7	2.2

ARIZONA-HOLBROCK NI 12-5 QLADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 1

			* * * K * * *		* * * U * * *		* * * T * * *		* * U/K * *		* * U/T * *		* * T/K * *	
CODE	UNIT	RECS	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
101.	Q	213.0	1.3	0.2	2.8	0.8	6.6	2.1	2.2	0.6	0.4	0.1	5.1	1.4
106.	GTV	140.0	0.5	0.2	1.1	0.2	4.3	1.6	1.9	0.4	0.2	0.1	8.2	1.2
209.	TRU	210.0	1.2	0.4	2.4	1.1	5.3	2.0	2.2	0.8	0.5	0.2	4.8	1.7
303.	PKCO	156.0	0.4	0.2	1.0	0.3	2.7	1.1	2.0	0.4	0.4	0.1	5.0	0.9
304.	PPS	8.0	0.5	0.3	0.9	0.3	2.5	0.7	2.0	0.0	0.6	0.0	4.1	1.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 2

			* * * K * * *		* * * U * * *		* * * T * * *		* * U/K * *		* * U/T * *		* * T/K * *	
CODE	UNIT	RECS	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
101.	Q	238.0	1.1	0.3	2.3	0.8	6.4	1.8	2.1	0.7	0.4	0.2	6.2	2.2
106.	GTV	68.0	0.6	0.2	1.4	0.3	5.4	1.9	1.9	0.4	0.2	0.1	8.6	1.3
209.	TRU	214.0	1.3	0.3	2.7	0.8	5.9	1.7	2.1	0.8	0.5	0.1	4.7	1.6
303.	PKCO	143.0	0.8	0.3	1.6	0.5	3.6	1.2	2.1	0.7	0.5	0.2	4.5	1.1
304.	PPS	71.0	0.9	0.4	1.3	0.3	3.9	1.4	1.5	0.6	0.4	0.1	4.3	2.2

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 3

			* * * K * * *		* * * U * * *		* * * T * * *		* * U/K * *		* * U/T * *		* * T/K * *	
CODE	UNIT	RECS	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
101.	Q	120.0	1.2	0.3	2.3	0.7	6.0	1.8	1.8	0.5	0.4	0.1	4.8	1.1
106.	GTV	155.0	0.7	0.3	1.9	0.5	6.2	2.1	2.4	0.6	0.3	0.1	8.4	2.0
209.	TRU	185.0	1.2	0.3	2.5	0.6	5.3	1.6	2.2	0.6	0.5	0.1	4.5	0.9
303.	PKCO	190.0	0.7	0.2	2.0	0.6	3.5	1.1	2.5	0.8	0.6	0.2	4.4	0.9
304.	PPS	95.0	1.3	0.4	1.8	0.4	4.5	1.2	1.4	0.4	0.4	0.1	3.4	0.9

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 4

			* * * K * * *		* * * U * * *		* * * T * * *		* * U/K * *		* * U/T * *		* * T/K * *	
CODE	UNIT	RECS	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
101.	Q	62.0	1.1	0.3	2.2	0.7	5.9	2.2	2.1	0.7	0.4	0.2	5.3	1.6
103.	GTU	24.0	0.8	0.3	1.4	0.4	3.9	1.7	1.7	0.5	0.4	0.1	4.7	1.1
104.	QB	18.0	1.5	0.2	1.5	0.3	5.1	0.9	1.0	0.3	0.3	0.1	3.5	0.5
106.	GTV	182.0	0.7	0.3	1.6	0.4	5.6	2.1	2.0	0.5	0.3	0.1	8.0	1.7
209.	TRU	168.0	1.0	0.3	2.1	0.6	4.9	1.6	2.1	0.7	0.4	0.2	4.8	1.0
303.	PKCO	265.0	0.8	0.4	1.7	0.5	3.8	1.5	2.0	0.9	0.5	0.2	4.4	1.1
304.	PPS	53.0	1.2	0.4	1.7	0.3	5.1	1.4	1.4	0.4	0.3	0.1	4.3	1.7

ARIZONA-HOLBROOK NE 12-5 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 5

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	L/K MEAN	L/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	29.0	1.1	0.6	1.8	0.7	5.2	2.7	1.7	0.8	0.4	0.2	4.5	2.5
103.	QTU	27.0	0.6	0.2	2.5	1.3	3.0	0.9	4.3	2.5	0.9	0.6	4.7	0.7
106.	QTV	180.0	0.8	0.3	1.6	0.4	6.4	2.4	2.0	0.6	0.2	0.1	8.4	2.7
209.	TRU	180.0	1.1	0.4	1.5	0.4	4.7	1.8	1.4	0.4	0.3	0.1	4.4	1.1
303.	PKCO	189.0	0.7	0.3	1.2	0.3	3.2	1.1	1.6	0.4	0.4	0.1	4.4	0.9
304.	PPS	79.0	1.4	0.5	1.6	0.4	4.9	1.4	1.2	0.5	0.4	0.1	3.7	1.8

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 6

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	L/K MEAN	L/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	38.0	1.0	0.4	1.5	0.4	4.1	1.5	1.4	0.5	0.4	0.1	4.0	0.7
103.	QTU	38.0	0.9	0.3	1.7	0.7	3.6	1.2	2.0	1.2	0.5	0.3	4.3	1.2
106.	QTV	235.0	0.8	0.3	1.5	0.4	5.7	1.8	1.8	0.5	0.3	0.1	7.0	1.9
209.	TRU	118.0	1.0	0.4	1.4	0.3	4.5	1.8	1.3	0.3	0.3	0.1	4.4	0.9
303.	PKCO	259.0	0.7	0.2	1.2	0.3	3.3	1.0	1.8	0.5	0.4	0.1	4.6	0.9
304.	PPS	14.0	1.2	0.3	1.2	0.3	4.5	1.0	1.1	0.3	0.3	0.1	3.7	0.6

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 7

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	L/K MEAN	L/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	64.0	1.1	0.3	1.6	0.6	4.5	1.5	1.5	0.5	0.4	0.1	4.2	0.8
103.	QTU	35.0	0.7	0.1	1.3	0.4	3.3	1.1	2.0	0.4	0.4	0.1	4.6	1.2
106.	QTV	191.0	0.9	0.2	1.5	0.4	6.1	1.5	1.7	0.4	0.2	0.1	7.2	1.7
209.	TRU	137.0	1.0	0.3	1.5	0.4	4.5	1.3	1.5	0.3	0.3	0.1	4.6	0.8
303.	PKCO	300.0	0.8	0.2	1.3	0.3	3.8	1.3	1.8	0.5	0.4	0.1	4.9	1.3

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 8

CODE	UNIT	RECS	K MEAN	K ST.DEV.	L MEAN	L ST.DEV.	T MEAN	T ST.DEV.	L/K MEAN	L/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	42.0	1.1	0.4	1.7	0.5	5.2	1.8	1.7	0.8	0.4	0.2	4.8	0.9
103.	QTU	93.0	0.8	0.2	1.8	0.5	3.5	0.9	2.4	0.8	0.5	0.2	4.6	0.8
106.	QTV	192.0	0.9	0.2	1.9	0.4	7.1	1.4	2.1	0.5	0.3	0.1	7.7	1.4
209.	TRU	158.0	1.1	0.3	1.6	0.4	4.7	1.2	1.5	0.3	0.3	0.1	4.4	0.7
303.	PKCO	297.0	0.8	0.2	1.5	0.4	4.0	1.4	2.0	0.6	0.4	0.1	5.1	1.2
304.	PPS	18.0	0.9	0.3	2.2	0.4	6.3	2.1	2.5	0.5	0.4	0.1	7.1	2.0

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 9

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	L/K MEAN	L/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	124.0	1.2	0.3	2.0	1.2	4.9	1.3	1.8	1.5	0.5	0.4	4.2	1.0
103.	QTU	73.0	0.8	0.3	2.6	1.7	4.0	1.4	3.7	2.7	0.7	0.6	5.4	1.7
106.	QTV	138.0	1.0	0.3	2.0	0.5	8.0	2.3	2.1	0.7	0.3	0.1	8.3	2.7
209.	TRU	101.0	1.1	0.4	1.7	0.5	5.2	1.7	1.5	0.4	0.3	0.1	4.6	0.8
303.	PKCO	343.0	0.7	0.2	1.5	0.4	3.9	1.5	2.1	0.6	0.4	0.2	5.1	1.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 10

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	L/K MEAN	L/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	79.0	1.4	0.4	2.0	0.7	5.6	1.4	1.6	1.0	0.4	0.2	4.1	0.8
103.	QTU	86.0	0.9	0.4	2.1	2.3	4.2	1.6	2.4	2.8	0.5	0.7	5.0	1.7
106.	QTV	173.0	0.8	0.2	1.7	0.4	6.8	1.8	2.0	0.6	0.3	0.1	8.1	1.9
209.	TRU	70.0	1.1	0.3	1.6	0.4	5.1	1.0	1.4	0.4	0.3	0.1	4.7	0.8
303.	PKCO	363.0	0.7	0.2	1.5	0.3	3.6	1.1	2.1	0.6	0.4	0.2	5.0	1.1

ARIZONA-HOLBROCK NI 12-5 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 11

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	62.0	1.3	0.3	2.8	1.4	5.9	1.5	2.2	1.6	0.5	0.4	4.4	0.6
103.	GTU	46.0	1.0	0.2	2.2	1.2	5.7	2.2	2.2	1.2	0.4	0.3	5.6	2.6
106.	GTV	130.0	0.9	0.2	2.2	1.2	6.9	2.3	2.7	1.8	0.4	0.4	8.1	2.6
209.	TRU	100.0	1.2	0.3	1.6	0.3	5.7	1.0	1.3	0.3	0.3	0.1	4.8	0.9
303.	PKCO	436.0	0.6	0.2	1.6	0.5	3.6	1.6	2.4	0.9	0.5	0.2	5.5	1.5
304.	PPS	12.0	0.8	0.1	1.7	0.4	6.0	1.5	2.2	0.4	0.3	0.1	7.5	1.9

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 12

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	61.0	1.4	0.2	1.8	0.6	6.6	1.6	1.3	0.7	0.3	0.1	4.9	1.4
103.	GTU	43.0	1.5	0.3	1.8	0.4	6.3	1.7	1.3	0.4	0.3	0.1	4.4	1.6
106.	GTV	178.0	0.9	0.2	1.8	0.5	7.9	1.7	2.1	0.6	0.2	0.1	9.3	2.4
209.	TRU	126.0	1.4	0.2	1.6	0.3	6.0	1.0	1.2	0.3	0.3	0.1	4.3	0.7
303.	PKCO	376.0	0.6	0.2	1.5	0.4	3.2	1.1	2.5	0.8	0.5	0.2	5.6	1.5
315.	PCGR	7.0	1.2	0.2	1.2	0.2	2.9	0.9	1.0	0.3	0.5	0.2	2.5	0.7

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 13

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	29.0	1.5	0.4	1.7	0.3	6.3	1.3	1.2	0.6	0.3	0.1	4.4	1.5
103.	GTU	74.0	1.7	0.3	1.6	0.3	6.4	1.0	1.0	0.2	0.3	0.1	3.8	0.8
106.	GTV	193.0	0.9	0.3	1.7	0.4	7.1	2.4	1.9	0.4	0.2	0.1	8.0	2.0
209.	TRU	71.0	1.5	0.3	1.7	0.3	6.8	1.1	1.1	0.3	0.2	0.1	4.6	1.0
303.	PKCO	361.0	0.6	0.4	1.4	0.4	3.5	1.7	2.3	0.9	0.4	0.2	5.4	1.5
306.	PPSN	16.0	0.5	0.2	1.2	0.3	3.2	1.6	2.5	0.5	0.3	0.1	6.9	3.6
309.	MDU	8.0	0.9	0.3	1.2	0.3	3.9	0.8	1.3	0.5	0.3	0.1	4.7	2.1
311.	CTS	11.0	0.9	0.4	1.4	0.3	4.0	1.2	1.6	0.4	0.4	0.1	4.3	1.6
315.	PCGR	4.0	1.7	0.1	2.2	0.4	5.1	0.5	1.3	0.2	0.4	0.1	2.9	0.2

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 14

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	16.0	1.2	0.6	1.9	0.5	5.4	2.2	1.7	1.0	0.4	0.2	5.0	1.8
103.	GTU	133.0	1.8	0.3	1.7	0.4	6.3	1.1	0.9	0.2	0.3	0.1	3.7	0.6
106.	GTV	165.0	0.9	0.2	1.7	0.4	6.5	1.8	2.0	0.6	0.3	0.1	7.7	2.6
112.	TI	47.0	1.8	0.2	2.9	0.5	11.0	1.2	1.7	0.3	0.3	0.0	6.2	0.7
116.	TU	28.0	0.5	0.2	1.2	0.3	2.8	0.8	2.1	0.4	0.5	0.2	4.7	1.1
209.	TRU	44.0	1.4	0.2	1.5	0.3	6.0	0.9	1.1	0.3	0.3	0.1	4.4	0.8
303.	PKCO	239.0	0.6	0.4	1.4	0.4	3.3	1.4	2.2	1.0	0.5	0.2	4.8	1.1
306.	PPSN	77.0	0.6	0.2	1.3	0.3	3.2	1.1	1.8	0.5	0.4	0.1	4.5	0.9
309.	MDU	7.0	0.9	0.1	1.9	0.3	5.4	1.2	2.1	0.4	0.3	0.1	6.0	0.6
311.	CTS	16.0	1.2	0.3	2.1	0.4	8.6	1.3	1.9	0.5	0.2	0.0	7.5	1.3
322.		18.0	0.9	0.2	1.6	0.3	4.8	1.0	1.9	0.3	0.4	0.1	5.2	0.7

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 15

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	11.0	1.3	0.6	1.7	0.5	5.6	1.9	1.1	0.4	0.3	0.1	4.0	0.8
103.	GTU	143.0	1.7	0.3	1.6	0.3	6.4	1.2	1.0	0.3	0.3	0.1	3.9	1.0
106.	GTV	198.0	0.9	0.2	1.8	0.5	7.7	2.5	2.1	0.7	0.2	0.1	8.8	2.8
112.	TI	49.0	1.2	0.4	2.1	0.5	8.3	1.8	1.8	0.5	0.2	0.1	7.3	1.7
116.	TU	11.0	0.5	0.1	1.4	0.3	3.7	0.8	2.3	0.5	0.4	0.1	6.2	1.1
303.	PKCO	163.0	0.6	0.4	1.4	0.4	3.2	1.4	1.9	1.0	0.4	0.2	4.6	1.1
306.	PPSN	47.0	0.8	0.3	1.5	0.4	4.9	2.0	1.7	0.5	0.3	0.1	5.6	1.9
311.	CTS	10.0	1.1	0.4	1.4	0.4	5.9	0.8	1.4	0.4	0.2	0.1	5.8	1.9
322.		90.0	1.0	0.3	1.6	0.3	5.4	0.9	1.7	0.7	0.3	0.1	5.7	2.3

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 16

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	18.0	0.7	0.4	1.4	0.5	3.8	1.6	1.2	0.3	0.3	0.1	4.7	1.0
103.	QTU	118.0	1.5	0.4	1.5	0.3	6.3	1.1	1.1	0.5	0.2	0.1	4.6	1.7
106.	QTV	259.0	0.9	0.2	1.6	0.4	7.1	1.9	1.9	0.7	0.2	0.1	8.2	2.8
108.	TS	21.0	0.9	0.2	2.1	0.5	10.1	3.2	2.2	0.6	0.2	0.1	11.0	3.2
116.	TU	11.0	0.7	0.2	1.1	0.2	3.6	1.1	1.6	0.4	0.3	0.1	5.1	1.4
205.	KU	44.0	1.1	0.2	1.5	0.3	7.2	1.5	1.4	0.4	0.2	0.1	6.7	1.6
303.	PKCO	137.0	0.7	0.5	1.5	0.4	4.9	2.6	1.6	0.9	0.2	0.1	6.6	2.8
306.	PPSN	28.0	0.8	0.2	1.6	1.1	4.7	1.1	2.1	1.4	0.4	0.2	5.9	1.1
309.	MDU	4.0	0.8	0.2	1.7	0.2	4.5	0.7	2.2	0.4	0.4	0.1	5.5	1.2
311.	CTS	7.0	1.1	0.3	1.2	0.2	5.0	0.9	1.1	0.3	0.2	0.1	4.7	0.9
315.	PCGR	7.0	1.6	0.2	1.5	0.4	5.4	1.1	1.0	0.4	0.3	0.1	3.3	0.4
317.	PCMG	8.0	0.8	0.2	2.1	0.2	8.0	2.7	2.7	0.6	0.3	0.1	9.6	2.6
322.		126.0	1.0	0.5	1.5	0.4	5.9	2.0	1.6	0.6	0.3	0.1	6.2	2.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 17

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	9.0	1.2	0.3	1.4	0.3	5.8	1.0	1.3	0.5	0.2	0.1	5.2	0.9
103.	QTU	14.0	1.0	0.3	1.5	0.5	6.2	1.0	1.6	0.7	0.2	0.1	6.3	1.4
106.	QTV	240.0	1.0	0.3	1.8	0.5	6.7	1.8	1.8	0.6	0.3	0.1	6.9	2.4
116.	TU	93.0	1.2	0.3	1.4	0.3	5.0	1.3	1.2	0.4	0.3	0.1	4.2	1.2
205.	KU	128.0	1.3	0.5	1.4	0.3	5.7	1.4	1.2	0.4	0.3	0.1	4.8	2.0
303.	PKCO	74.0	1.3	0.7	1.5	0.4	5.3	2.0	1.1	0.4	0.3	0.1	4.1	1.8
306.	PPSN	39.0	0.9	0.2	1.5	0.3	5.2	1.1	1.6	0.4	0.3	0.1	5.7	1.5
311.	CTS	29.0	1.6	0.6	1.6	0.4	6.6	1.9	1.1	0.4	0.3	0.1	4.2	1.0
314.	PCA	5.0	2.3	0.3	1.5	0.1	6.6	0.5	0.6	0.1	0.2	0.0	2.9	0.4
315.	PCGR	167.0	2.4	0.9	2.3	0.8	9.3	4.8	1.0	0.3	0.3	0.1	4.0	1.5
319.	PCM	10.0	1.7	0.6	1.7	0.5	7.5	1.0	1.1	0.5	0.2	0.1	5.1	2.8
320.	PCU	38.0	1.8	1.4	1.8	0.7	6.0	1.5	1.3	0.7	0.3	0.1	4.7	2.1
322.		17.0	1.0	0.3	1.4	0.4	4.3	0.9	1.5	0.4	0.3	0.1	4.7	1.7

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 18

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	10.0	3.0	0.6	2.7	0.8	11.1	2.1	0.9	0.3	0.2	0.0	3.7	0.7
103.	QTU	50.0	1.8	0.9	2.0	0.7	7.9	3.1	1.1	0.4	0.2	0.1	4.7	1.4
106.	QTV	87.0	1.0	0.3	1.7	0.4	7.8	3.2	1.8	0.6	0.2	0.1	8.3	4.0
108.	TS	22.0	2.9	0.6	2.3	1.0	9.8	6.2	0.8	0.3	0.3	0.1	3.4	1.5
116.	TU	65.0	1.5	0.3	1.3	0.2	5.1	1.1	0.9	0.2	0.3	0.1	3.3	0.7
205.	KU	70.0	1.2	0.3	1.4	0.3	5.7	1.2	1.3	0.5	0.3	0.1	5.0	2.0
303.	PKCO	78.0	0.5	0.4	1.3	0.4	3.1	1.5	1.6	0.9	0.3	0.1	5.4	2.1
306.	PPSN	80.0	1.1	0.4	1.4	0.3	4.5	1.2	1.4	0.5	0.3	0.1	4.5	1.8
311.	CTS	24.0	2.0	0.8	1.9	0.5	7.3	2.3	1.0	0.3	0.3	0.1	3.9	1.4
315.	PCGR	215.0	2.8	1.0	2.7	1.0	9.9	4.3	1.0	0.3	0.3	0.1	3.6	1.0
316.	PCP	20.0	2.6	0.8	2.4	1.1	13.1	4.6	0.9	0.3	0.2	0.1	5.3	1.7
317.	PCMG	8.0	2.5	0.5	2.6	0.7	12.4	4.5	1.0	0.2	0.2	0.1	4.9	1.3
319.	PCM	33.0	1.0	0.4	1.2	0.3	4.0	1.6	1.3	0.3	0.3	0.1	4.1	0.9
320.	PCU	7.0	2.7	0.6	1.9	0.4	7.6	1.9	0.7	0.2	0.2	0.0	3.0	1.3
321.	MDCPC	4.0	1.4	0.7	1.6	0.3	4.4	0.3	1.3	0.5	0.4	0.1	3.7	1.5

ARIZONA-HOLBROCK NI 12-5 QUADRANGLE
STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 19

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	L/K MEAN	L/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	20.0	0.9	0.3	1.2	0.2	4.1	1.4	1.5	0.5	0.3	0.1	4.4	1.0
103.	GTU	70.0	1.9	1.0	1.9	0.7	7.7	2.6	1.0	0.4	0.2	0.1	4.7	1.8
106.	GTV	85.0	1.3	0.7	1.7	0.7	6.9	2.2	1.3	0.4	0.2	0.1	5.8	1.7
108.	TS	22.0	2.7	0.3	2.3	0.5	10.2	1.7	0.8	0.1	0.2	0.1	3.8	0.4
109.	TD	18.0	3.0	0.5	2.3	1.1	8.4	2.4	0.7	0.3	0.3	0.1	2.8	0.4
116.	TU	44.0	1.7	0.9	1.5	0.4	4.8	1.5	0.9	0.4	0.3	0.1	3.2	1.5
205.	KU	65.0	1.3	0.4	1.4	0.3	5.6	0.8	1.2	0.5	0.3	0.1	4.7	1.4
303.	PKCO	123.0	0.5	0.3	1.3	0.4	3.2	1.4	1.9	0.7	0.3	0.1	5.4	2.0
305.	PM	24.0	0.9	0.3	1.2	0.2	3.9	0.8	1.4	0.4	0.3	0.1	4.5	0.8
306.	PPSN	97.0	1.0	0.4	1.3	0.3	4.1	1.2	1.5	0.5	0.3	0.1	4.5	1.4
311.	CTS	8.0	1.2	0.5	1.6	0.3	5.3	1.8	1.5	0.8	0.4	0.2	4.7	1.8
312.	CDU	5.0	0.7	0.4	1.2	0.2	3.1	0.9	1.3	0.3	0.4	0.1	4.1	1.7
315.	PCGR	123.0	2.6	1.2	2.5	1.1	9.7	5.6	1.0	0.3	0.3	0.1	3.6	1.0
316.	PCR	32.0	3.1	0.5	3.7	0.6	11.2	1.4	1.2	0.2	0.3	0.1	3.6	0.3
319.	PCM	86.0	1.5	1.1	2.0	1.2	5.7	3.5	1.3	0.5	0.3	0.1	4.3	1.8
321.	MDCPC	5.0	0.7	0.3	1.0	0.2	3.1	1.6	1.2	0.2	0.2	0.1	4.1	1.5

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 20

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	L/K MEAN	L/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	24.0	1.9	0.9	2.0	0.7	8.1	4.0	1.2	0.4	0.3	0.1	4.3	0.7
103.	GTU	61.0	1.4	0.7	1.6	0.5	5.9	2.3	1.3	0.4	0.3	0.1	4.4	1.0
106.	GTV	106.0	1.5	0.6	1.6	0.5	6.6	2.0	1.2	0.3	0.3	0.1	4.8	1.9
109.	TD	21.0	2.5	1.2	1.9	0.5	6.9	2.4	0.8	0.2	0.3	0.1	3.1	1.1
116.	TU	16.0	1.3	0.3	1.5	0.2	4.9	1.5	1.3	0.4	0.3	0.1	4.2	2.0
205.	KU	30.0	1.1	0.4	1.5	0.3	5.6	1.0	1.4	0.4	0.3	0.1	5.2	1.6
303.	PKCO	123.0	0.5	0.4	1.5	0.4	3.3	1.4	1.8	0.8	0.3	0.2	5.2	2.5
306.	PPSN	115.0	0.8	0.3	1.5	0.4	3.8	1.1	1.9	0.6	0.4	0.1	4.6	1.1
312.	CDU	23.0	1.2	0.5	1.2	0.3	4.6	0.8	1.0	0.3	0.3	0.1	4.2	1.5
314.	PCA	10.0	2.3	0.5	1.9	0.7	7.4	0.9	0.8	0.2	0.3	0.1	3.3	0.8
315.	PCGR	160.0	3.1	0.9	2.8	1.0	12.1	4.2	0.9	0.3	0.2	0.1	4.0	1.2
316.	PCR	34.0	2.3	1.3	2.9	1.0	9.8	2.3	1.2	0.3	0.3	0.1	3.8	0.9
317.	PCMG	19.0	0.7	0.5	1.6	0.6	4.7	1.4	2.2	0.9	0.4	0.1	5.9	2.1
318.	PCSCH	4.0	1.7	0.1	1.4	0.3	7.5	0.2	0.8	0.2	0.2	0.0	4.4	0.1
319.	PCM	89.0	1.6	1.0	1.8	0.8	4.9	2.6	1.1	0.5	0.3	0.1	3.3	1.0
320.	PCU	19.0	1.8	0.8	1.4	0.4	5.8	2.3	0.9	0.4	0.2	0.1	3.6	1.4

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 21

			* * * K * * *		* * * U * * *		* * * T * * *		* * U/K * *		* * U/T * *		* * T/K * *	
CODE	UNIT	RECS	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
101.	Q	15.0	1.2	0.7	1.5	0.4	4.8	2.5	1.3	0.6	0.3	0.2	3.9	1.2
103.	QTU	147.0	1.9	1.0	1.7	0.4	6.8	2.1	1.1	0.5	0.3	0.1	4.4	2.0
106.	QTV	177.0	1.5	1.0	1.7	0.7	7.3	3.1	1.3	0.4	0.2	0.1	5.5	2.0
109.	TD	28.0	1.4	0.9	1.6	0.4	4.0	2.2	0.8	0.2	0.3	0.1	3.2	1.8
116.	TU	8.0	2.6	0.3	1.4	0.1	4.8	1.1	0.6	0.1	0.3	0.1	1.9	0.4
205.	KU	31.0	1.0	0.2	1.5	0.3	5.6	1.1	1.6	0.5	0.3	0.1	5.6	1.1
303.	PKCO	64.0	0.7	0.6	1.3	0.3	3.9	1.8	1.5	0.8	0.3	0.1	5.7	3.5
306.	PPSN	161.0	0.8	0.3	1.5	0.3	4.2	1.5	1.9	0.6	0.4	0.1	5.3	1.3
312.	CDU	18.0	0.9	0.3	1.3	0.2	6.9	1.4	1.4	0.4	0.2	0.0	7.7	2.3
314.	PCA	24.0	2.8	0.6	1.7	0.4	7.1	2.3	0.6	0.2	0.3	0.1	2.6	1.0
315.	PCGR	64.0	3.0	0.7	2.7	0.9	11.0	3.6	0.9	0.2	0.3	0.1	3.6	0.8
316.	PCR	51.0	2.4	1.1	2.8	1.2	9.9	3.7	1.2	0.3	0.3	0.1	4.4	1.2
317.	PCMG	21.0	0.5	0.4	1.5	0.5	4.3	1.4	2.0	0.5	0.3	0.0	6.4	1.5
319.	PCM	22.0	2.3	1.1	1.6	0.4	6.1	2.1	0.9	0.6	0.3	0.1	3.1	1.3
320.	PCU	21.0	2.1	0.9	1.7	0.5	5.2	1.8	0.7	0.2	0.3	0.1	2.5	0.5

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 22

			* * * K * * *		* * * U * * *		* * * T * * *		* * U/K * *		* * U/T * *		* * T/K * *	
CODE	UNIT	RECS	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
101.	Q	43.0	1.3	0.7	1.8	0.5	6.1	2.0	1.5	0.6	0.3	0.1	5.0	1.5
102.	QTL	67.0	1.6	0.9	2.0	0.6	7.3	2.9	1.4	0.8	0.3	0.1	4.9	2.0
103.	QTU	109.0	2.0	0.9	2.1	0.6	7.7	2.3	1.2	0.5	0.3	0.1	4.2	1.8
106.	QTV	89.0	1.2	0.9	1.9	1.0	6.4	2.4	1.6	0.6	0.3	0.1	6.5	2.5
109.	TD	17.0	1.7	0.9	1.4	0.4	4.1	1.7	0.7	0.3	0.3	0.0	2.5	1.0
116.	TU	29.0	1.2	0.5	1.4	0.3	4.9	1.4	1.4	0.6	0.3	0.1	4.5	1.7
205.	KU	50.0	0.7	0.4	1.7	0.4	4.7	1.3	1.9	0.9	0.3	0.1	5.9	1.5
303.	PKCO	30.0	0.5	0.2	1.3	0.3	4.2	2.0	2.1	0.5	0.3	0.1	8.2	2.1
306.	PPSN	165.0	0.8	0.3	1.6	0.6	4.8	1.7	2.1	1.0	0.4	0.2	5.8	1.8
309.	MDU	7.0	0.6	0.1	1.4	0.2	5.1	0.7	2.2	0.3	0.3	0.0	7.9	0.8
314.	PCA	55.0	2.8	0.5	1.9	0.6	7.4	2.3	0.7	0.2	0.3	0.1	2.7	0.8
315.	PCGR	80.0	3.2	0.7	2.7	0.9	11.1	3.9	0.9	0.3	0.3	0.1	3.5	1.0
316.	PCR	41.0	2.4	1.0	3.0	1.0	9.9	2.9	1.3	0.4	0.3	0.1	4.5	1.7
317.	PCMG	19.0	1.0	0.9	1.7	0.7	5.9	3.1	1.5	0.5	0.3	0.1	6.0	1.8
319.	PCM	51.0	2.0	0.9	2.0	0.6	8.3	3.0	1.0	0.3	0.3	0.1	4.1	1.0
320.	PCU	48.0	2.4	1.3	1.9	0.8	5.1	1.9	0.7	0.2	0.3	0.1	2.3	0.9

ARIZONA-HOLBROCK NI 12-5 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 23

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	30.0	0.9	0.3	2.0	0.6	5.7	1.9	2.5	0.9	0.4	0.1	6.6	1.7
102.	GTL	59.0	1.5	0.9	2.3	1.7	8.0	7.1	1.8	2.4	0.3	0.3	5.0	1.2
103.	GTU	47.0	1.7	0.7	2.1	0.8	7.1	2.8	1.3	0.3	0.3	0.1	4.3	1.3
106.	GTV	97.0	1.9	1.0	2.3	1.2	8.8	4.9	1.5	1.3	0.3	0.3	5.1	1.6
109.	TD	48.0	1.9	1.0	1.5	0.8	4.4	3.0	0.7	0.2	0.4	0.1	2.3	0.9
116.	TU	20.0	1.6	0.9	1.5	0.4	5.4	1.9	1.0	0.4	0.3	0.1	3.7	1.2
205.	KU	37.0	0.6	0.5	1.4	0.4	3.7	1.5	1.6	0.5	0.3	0.1	4.8	1.5
303.	PKCO	24.0	1.1	0.6	1.4	0.3	4.2	1.2	1.1	0.5	0.3	0.1	3.5	0.9
306.	PPSN	160.0	1.0	0.4	1.9	0.5	5.2	1.4	2.1	0.9	0.4	0.1	5.6	1.9
309.	MDU	5.0	0.7	0.1	1.2	0.1	5.4	1.0	1.7	0.2	0.2	0.1	7.8	2.3
312.	CDU	8.0	0.5	0.4	1.1	0.2	4.1	0.7	1.3	0.9	0.2	0.0	5.6	4.0
314.	PCA	56.0	3.1	1.0	2.5	0.7	9.1	3.2	0.9	0.3	0.3	0.1	3.2	1.3
315.	PCGR	101.0	2.7	0.7	2.8	0.9	11.6	5.5	1.1	0.3	0.3	0.1	4.2	1.4
316.	PCR	7.0	2.1	0.2	3.3	0.5	8.5	0.9	1.6	0.2	0.4	0.1	4.1	0.5
318.	PCSCH	10.0	1.6	0.6	2.1	0.5	6.3	1.2	1.5	0.9	0.3	0.1	4.4	1.5
319.	PCM	112.0	1.6	0.7	1.9	0.6	7.4	2.5	1.2	0.4	0.3	0.1	4.5	1.4
320.	PCU	70.0	2.9	1.3	2.2	1.0	6.6	2.0	0.8	0.3	0.3	0.1	2.6	1.1

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 101

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	119.0	0.9	0.3	1.8	0.8	4.0	1.2	1.9	0.8	0.4	0.2	4.3	0.8
103.	GTU	39.0	1.1	0.4	2.3	1.1	5.0	1.9	2.3	1.3	0.5	0.3	4.7	1.2
106.	GTV	221.0	1.1	0.5	1.6	0.4	6.8	2.0	1.6	0.6	0.2	0.1	7.1	2.4
304.	PPS	28.0	0.8	0.4	1.3	0.4	3.2	1.4	1.7	0.5	0.4	0.1	3.9	1.2
315.	PCGR	51.0	2.0	0.8	2.1	0.8	7.8	3.5	1.1	0.3	0.3	0.1	3.8	1.1

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 102

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	13.0	1.3	1.5	2.1	1.3	7.4	6.2	2.7	2.8	0.5	0.6	6.1	2.5
102.	GTL	69.0	1.6	0.7	2.7	0.8	8.7	2.7	2.0	0.9	0.3	0.2	5.9	1.7
103.	GTU	72.0	1.1	0.9	1.7	0.6	6.2	4.6	1.9	0.8	0.3	0.1	6.0	1.5
106.	GTV	238.0	1.1	0.6	1.9	0.7	6.6	2.7	2.0	0.8	0.3	0.1	6.8	2.4
303.	PKCO	34.0	1.0	0.5	1.7	0.5	3.4	1.2	1.6	0.7	0.5	0.1	3.5	1.9
304.	PPS	61.0	1.2	0.4	1.8	0.4	4.2	1.1	1.5	0.5	0.5	0.2	3.4	1.0
315.	PCGR	32.0	2.9	0.8	2.7	0.9	14.0	5.4	0.9	0.2	0.2	0.1	4.7	1.0

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 103

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	4.0	0.5	0.5	1.2	0.3	2.6	1.3	1.4	0.0	0.3	0.0	3.9	0.0
103.	GTU	7.0	1.2	0.2	1.3	0.2	5.3	1.0	1.1	0.3	0.3	0.1	4.6	1.1
106.	GTV	315.0	0.8	0.3	1.7	0.5	6.9	2.6	2.2	0.6	0.2	0.1	9.0	2.4
303.	PKCO	41.0	0.6	0.2	1.4	0.3	4.4	1.9	2.3	0.8	0.3	0.1	7.6	2.6
306.	PPSN	20.0	0.8	0.3	1.3	0.3	3.3	1.5	1.7	0.4	0.5	0.2	4.0	1.5
315.	PCGR	43.0	0.8	0.6	1.7	0.6	4.3	1.2	1.8	0.7	0.4	0.2	4.3	1.9
317.	PCMG	64.0	1.5	0.8	2.4	0.8	8.4	3.8	1.8	0.7	0.3	0.1	6.1	1.9

ARIZONA-HOLBROOK NI 12-5 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 104

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
103.	GTU	70.0	2.7	0.7	2.2	0.5	7.4	1.2	0.8	0.2	0.3	0.1	2.8	0.8
106.	GTV	187.0	0.9	0.1	1.6	0.4	7.6	2.2	1.8	0.5	0.2	0.1	8.5	2.4
116.	TU	8.0	0.3	0.2	1.2	0.4	2.5	0.8	2.7	0.0	0.6	0.0	5.5	1.4
303.	PKCO	63.0	0.6	0.2	1.5	0.6	4.2	2.1	2.3	0.8	0.4	0.2	6.0	2.8
311.	CTS	13.0	1.2	0.3	1.9	0.4	6.4	0.8	1.6	0.5	0.3	0.1	5.4	1.2
315.	PCGR	28.0	2.9	0.5	2.0	0.5	8.6	1.4	0.7	0.1	0.2	0.0	3.0	0.4
319.	PCM	34.0	1.1	0.4	1.3	0.3	4.0	1.2	1.2	0.5	0.3	0.1	4.0	1.2
322.		51.0	1.3	0.6	1.6	0.7	5.8	2.5	1.3	0.4	0.3	0.1	4.6	1.5

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 105

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
106.	GTV	4.0	3.7	0.6	2.4	0.8	7.5	1.3	0.6	0.2	0.3	0.1	2.1	0.2
116.	TU	30.0	3.0	0.5	2.2	0.9	6.4	2.5	0.8	0.3	0.4	0.1	2.1	0.8
303.	PKCO	225.0	0.7	0.2	1.5	0.3	3.4	0.9	2.1	0.7	0.4	0.1	5.0	1.0
306.	PPSN	12.0	0.7	0.2	1.3	0.3	3.4	1.1	1.7	0.2	0.4	0.1	4.5	1.1
314.	PCA	46.0	3.5	1.0	2.4	0.6	8.2	2.7	0.7	0.2	0.3	0.1	2.5	0.8
315.	PCGR	30.0	2.8	0.7	3.0	0.7	11.1	2.1	1.1	0.3	0.3	0.1	4.2	1.1
316.	PCR	41.0	2.8	0.6	3.5	0.8	10.2	1.9	1.3	0.2	0.3	0.1	3.7	0.6
319.	PCM	38.0	2.3	0.8	1.9	0.4	6.2	2.0	0.9	0.4	0.3	0.1	2.8	0.8
322.		32.0	0.9	0.2	1.4	0.3	5.1	1.1	1.7	0.4	0.3	0.1	6.0	1.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 106

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	24.0	1.0	0.2	2.2	0.5	7.6	1.0	2.1	0.7	0.3	0.1	7.4	1.4
103.	GTU	23.0	1.9	0.6	1.4	0.4	4.5	1.3	0.7	0.2	0.3	0.1	2.4	0.4
106.	GTV	12.0	1.0	0.1	1.9	0.3	6.9	1.0	1.9	0.5	0.3	0.0	7.0	1.3
109.	TD	51.0	2.4	1.0	2.0	0.9	7.4	4.5	0.8	0.2	0.3	0.1	2.8	1.0
209.	TRU	57.0	1.2	0.2	1.7	0.4	6.1	1.4	1.5	0.4	0.3	0.1	5.2	1.4
303.	PKCO	179.0	0.6	0.3	1.4	0.4	3.1	1.1	2.0	0.7	0.4	0.1	4.6	1.0
306.	PPSN	53.0	1.0	0.5	1.4	0.3	4.9	1.0	1.6	0.6	0.3	0.1	5.3	1.6
311.	CTS	4.0	2.0	1.1	1.7	0.5	4.7	0.8	0.8	0.1	0.4	0.0	2.1	0.3
315.	PCGR	6.0	2.1	1.3	1.8	0.5	7.4	4.0	0.8	0.3	0.2	0.1	3.6	0.9
320.	PCU	12.0	3.4	0.4	2.1	0.4	13.5	1.4	0.6	0.1	0.2	0.0	4.0	0.5

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 107

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	9.0	0.5	0.2	1.9	0.5	2.5	0.5	2.3	0.3	0.6	0.1	4.0	0.5
116.	TU	15.0	0.7	0.4	1.3	0.3	3.1	0.9	1.8	0.8	0.4	0.1	4.9	2.0
209.	TRU	75.0	1.0	0.2	1.9	0.4	4.7	1.0	2.0	0.6	0.4	0.1	4.8	0.8
303.	PKCO	280.0	0.6	0.2	1.6	0.5	3.1	0.8	2.3	0.7	0.5	0.2	4.9	1.1
306.	PPSN	50.0	0.8	0.2	1.6	0.6	4.4	1.7	2.0	0.6	0.4	0.2	5.7	1.7
309.	MCU	20.0	0.7	0.1	1.4	0.3	4.9	1.1	2.0	0.5	0.3	0.1	7.2	2.1
311.	CTS	5.0	0.6	0.1	1.2	0.2	4.1	0.6	1.9	0.3	0.3	0.0	6.7	1.2
320.	PCU	18.0	1.9	1.3	1.6	0.7	4.8	2.0	1.1	0.6	0.4	0.2	3.3	2.4

ARIZONA-HOLSROCK NI 12-5 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 108

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	92.0	1.2	0.3	2.0	0.5	6.2	1.8	1.8	0.7	0.3	0.1	5.3	2.0
103.	GTU	76.0	1.4	0.4	1.7	0.4	5.7	1.4	1.3	0.4	0.3	0.1	4.3	0.9
116.	TU	5.0	1.9	0.3	1.8	0.4	5.0	0.9	0.9	0.1	0.4	0.0	2.6	0.3
205.	KU	22.0	1.5	0.4	1.7	0.3	5.0	0.8	1.2	0.4	0.4	0.1	3.5	1.0
209.	TRU	41.0	1.1	0.5	2.5	0.7	6.7	3.7	2.1	0.7	0.4	0.1	6.3	4.4
303.	PKCO	161.0	0.6	0.4	1.5	0.4	3.6	1.9	1.8	0.6	0.4	0.1	5.1	1.8
306.	PPSN	61.0	0.8	0.3	1.7	0.4	4.3	1.7	2.2	0.8	0.4	0.1	5.7	2.1

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 109

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	79.0	1.4	0.4	2.2	0.5	6.9	2.3	1.6	0.5	0.3	0.1	5.1	1.9
103.	GTU	38.0	1.8	0.3	1.9	0.4	6.2	0.8	1.0	0.3	0.3	0.1	3.5	0.7
106.	GTV	4.0	1.3	0.2	2.0	0.4	7.4	1.0	1.6	0.3	0.3	0.1	6.0	1.5
116.	TU	44.0	1.6	0.3	1.5	0.3	5.0	0.6	1.0	0.3	0.3	0.1	3.3	0.7
205.	KU	17.0	1.5	0.5	1.6	0.3	5.3	0.9	1.1	0.3	0.3	0.1	3.5	1.0
209.	TRU	129.0	1.1	0.3	1.9	0.5	5.3	2.3	1.8	0.6	0.4	0.2	4.9	1.4
303.	PKCO	113.0	0.9	0.5	1.7	0.5	4.4	1.7	1.8	0.8	0.4	0.2	4.7	2.3
306.	PPSN	32.0	0.7	0.3	1.5	0.4	3.9	1.1	2.0	0.5	0.4	0.1	5.1	0.9

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 110

CODE	UNIT	RECS	K MEAN	K ST.DEV.	U MEAN	U ST.DEV.	T MEAN	T ST.DEV.	U/K MEAN	U/K ST.DEV.	U/T MEAN	U/T ST.DEV.	T/K MEAN	T/K ST.DEV.
101.	Q	79.0	1.4	0.3	1.7	0.4	6.6	1.5	1.3	0.5	0.3	0.1	5.1	1.8
106.	GTV	44.0	0.9	0.2	1.3	0.2	6.0	1.1	1.4	0.3	0.2	0.1	6.5	1.2
116.	TU	10.0	1.5	0.1	1.7	0.2	4.9	0.3	1.2	0.1	0.3	0.0	3.4	0.4
205.	KU	76.0	1.0	0.4	1.9	0.5	5.3	1.5	1.8	0.9	0.3	0.1	5.3	1.3
209.	TRU	180.0	1.2	0.3	1.5	0.3	5.6	1.6	1.3	0.3	0.3	0.1	4.7	1.1
303.	PKCO	85.0	0.6	0.3	1.4	0.5	3.5	1.4	2.0	1.0	0.3	0.1	5.3	1.8