

GJB X-412 81

National Uranium Resource Evaluation

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

FINAL REPORT

CAUTION
This is a time release report.
Do not release any part of this
publication before

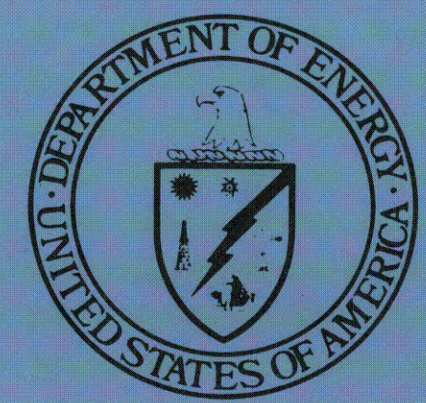
VOLUME II - F

TEXAS-NEW MEXICO-EL PASO NH 13-1 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

BUREAU OF GEOLOGY
AND MINERAL TECHNOLOGY
metadc784538

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.

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

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

FINAL REPORT

VOLUME 2F
EL PASO QUADRANGLE

CARSON HELICOPTERS, INC.
32-H Blooming Glen Road
Perkasie, Pennsylvania 18944

September 1981

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 El Paso, two degree quadrangle, New Mexico, are presented. Instrumentation and methods are described in Volume I 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.

A total of 72 statistically significant eU anomalies were identified in this quadrangle. Of this number 20 were considered to be of sufficient intensity to warrant field investigations, however, many of these anomalies appear to be wholly, or in part, associated with various unconsolidated Quaternary deposits. Only three of the 20 can, with certainty be identified with bedrock; one with a Quaternary flow, one with Cambrian sandstone and one with a Precambrian granite.

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.0	GEOLOGY AND RADIOACTIVE MINERAL DEPOSITS	3/4
1.1	GENERAL STATEMENTS	3/4
1.2	GEOLOGY	3/4
1.3	STRUCTURAL GEOLOGY	3/4
1.4	RADIOACTIVE MINERALS	3/4
2.0	DATA INTERPRETATION	5
2.1	GENERAL	5
2.2	COMMENTARY ON RADIOMETRIC PROFILES	5
2.3	URANIUM HISTOGRAMS	5
2.4	URANIUM ANOMALY MAPS	6
2.5	CONCLUSIONS	10
2.6	SUGGESTIONS FOR FURTHER WORK	10
3.0	REFERENCES	13/14
3.1	BIBLIOGRAPHY	13/14
3.2	MAPS	13/14

1.0 GEOLOGY AND RADIOACTIVE MINERAL DEPOSITS

1.1 GENERAL STATEMENT

The El Paso Quadrangle of southern New Mexico and westernmost Texas is located to the southeast of the Colorado Plateau and adjoins northernmost Mexico. The study area is located within the southernmost portions of the New Mexico Rocky Mountains, and includes the city of El Paso, Texas.

1.2 GEOLOGY

The El Paso Quadrangle contains Precambrian igneous to Quaternary sedimentary rocks that reflect a complex geologic history. A Precambrian complex of quartzite, sandstone, shale, granite and rhyolite is exposed in the Franklin Mountains to the north of the town of El Paso, Texas. These rocks were deformed about 1.2 to 1.4 billion years ago during the Mazatzal orogenic event. Deposited on these units are a sequence of Cambrian to Permian shallow marine dolomites, limestones, shales, and sandstones along with some intermittent Permian conglomerates that reflect adjacent high areas. These rocks crop out in the Franklin and Haeco Mountains to the north and east of El Paso, Texas, and represent the remnants of the ancestral Rocky Mountains.

The presence of Cretaceous redbeds and conglomerates near the Tres Hermanas and West Potrillo Mountains indicates the beginning of the Laramide orogenic activity that eventually folded and faulted all of the Precambrian to Mesozoic lithologic units. The Laramide compressional movements created N-S trending ridges and basins that influence the present day course of the Rio Grande River.

By late Tertiary time the Laramide orogenic movements terminated and the study area was subject to extensional and rift tectonics. These normal faults trend N-S, following the Laramide structural grain, and this episode of the deformation was also accompanied by wide-spread Tertiary volcanism. Numerous volcanic vents penetrate the West Potrillo Mountains. Thus, by the late Cenozoic the Rio Grande basins down-dropped along normal faults that bound both sides of the basin. Lastly, Quaternary sands and gravels alluviated the low lying basins covering many of the major normal faults.

1.3 STRUCTURAL GEOLOGY

The general structure of the El Paso Quadrangle is relatively simple. The N-S trending ridges are separated by alluviated valleys. Most of the mapped faults trend N-S reflecting both Laramide compressional and late Tertiary extensional deformations. This trend is present on the magnetic total field map and the most obvious magnetic linears trend N-S across the study area.

1.4 RADIOACTIVE MINERALS

There is one known uranium prospect in the El Paso Quadrangle within the United States. This prospect (High Hope group prospect) lies on the western flank of the Carrizalillo Hills in the western portion of the survey area. However, no production has been reported from this prospect. There is a mine or quarry on Guzmans Mountain, but we were not able to determine the nature of the mining operation on the basis of existing information.

2.0 DATA INTERPRETATION

2.1 GENERAL

The El Paso Quadrangle is dominated by N-S trending ridges and alluviated valleys that are predominantly the result of block faulting along N-S trending normal faults. There is almost 3000 ft of local relief over the Franklin Mountains, and over 1000 ft of relief typify the N-S trending topographic elements.

The major lithologic units and the Rio Grande River follow the dominant structural trend, and the washes trend E-W off of the ridges into the valleys.

2.2 COMMENTARY ON RADIOMETRIC PROFILES

Anomalies 40 and 41 have very high potassium values, as high as 6.6 sigma. This could be due to the presence of evaporites, or outwash from the surrounding volcanic mountains in the bolsons located in the valley. Evaporites high in potassium such as potash usually yield high K^{40} anomalies.

Anomalies 70, 63, and 64 are located in the city of El Paso, which makes these anomalies somewhat suspect.

There are extremely high thorium counts over the Tres Hermanas Mountains in the western section of the quadrangle. These values are as high as 22 PPM and are attributed to the stocks, laccoliths, dikes, sills and other intrusions found in the area. Another factor making these values high would be bare rock exposed on the top of the mountains and low flight altitude over the mountains.

2.3 URANIUM HISTOGRAMS

The high eU and eTh occurrences are found in unit PEG where the eU mean value is 3.9 ppm and the eTh is 17.4 ppm. This information was tallied from 64 records which are statistically significant. Other potentially good units are PCL, COB, and PCR. However, due to the relatively small size of the El Paso Quadrangle, these units do not occur often enough to yield a statistically significant number of records.

2.4 URANIUM ANOMALY MAPS

Selected and Preferred Anomalies

A total of 72 statistically significant eU anomalies were found within the El Paso Quadrangle (Table 3). Of the 72 significant eU anomalies, 20 have been selected as preferred anomalies, as they exhibit relative enrichment of eU over eTh and K, and have uranium ppm greater than 3 standard deviations (sigma) relative to their individual rock units. These preferred anomalies are often associated with more than one lithologic type.

Preferred Anomalies

<u>Symbol</u>	<u>Lithologic Type</u>	<u>No. of times the rock type is associated with a preferred anomaly</u>
Qb	Lacustrine and Fluvial Deposits	11
Qs	Wind Blown Sand	5
Qf	Colluvium Sand and Gravel	5
Qal	Alluvium Sand and Gravel	3
Qu	Undivided Sand and Gravel	3
Qba	Volcanic Flows	1
Cob	Sandstone	1
peg	Granite	1

These preferred anomalies appear to have a potential of indicating true uranium enrichment, and may warrant additional investigation. The selection has taken into account the statistical adequacy of the sampling.

Lithologic Histograms

Several of the lithologic types exhibit non-gaussian uranium histograms. For example, the undivided quaternary deposits (Qu) histogram is skewed toward high values, and terminates at about 6 ppm uranium. This unit has a mean of 2.9 ppm uranium. The recent colluvium material (Qf) histogram is also skewed toward high values and has a mean of 2.8 ppm uranium, while the Tertiary conglomerate (Qtg) histogram exhibits a similar pattern, averaging 2.3 ppm uranium. Furthermore, the Precambrian granite (peg) his-

togram is skewed toward the right and averages 3.9 ppm uranium, making this unit the most responsive rock type within the study area.

Anomalies 1, 8, 9, 10, 24, 25, 26, and 66

These anomalies within recent sedimentary deposits occur in a high eU zone along the eastern flank of the Franklin Mountains. A strong N-S trending magnetic linear exists beneath this area and these anomalies may be related to this magnetic structure. Anomalies 9, 10, and 24 occur in colluvium, lacustrine, fluvial and wind blown sands, and have a response of 3.9, 4.2, and 3.9 sigma respectively.

Anomalies 7, 18, 19, and 20

These anomalies flank the western side of the Franklin Mountains along the Rio Grande flood plain. These anomalies, which occur primarily within Quaternary alluvium, undifferentiated deposits, and the Hueco limestone, do not correlate with strong magnetic linears. However, outcrops of Precambrian granite in the Franklin Mountains indicate that this mountainous region was uplifted relative to the surrounding low lying areas.

Anomalies 40 and 41

Anomalies 40 and 41, occurring to the west of the Carrizalillo Hills, are associated with lacustrine and fluvial deposits which lie near Tertiary volcanic rocks. Weak N-S trending magnetic linears exist beneath this region, and the area is characterized by very high K values. There is a uranium prospect (High Hope group prospect) in this area. However, no production has been reported from this prospect. Anomalies 40 and 41 are apparently related to this prospect.

Anomalies 43 and 46

These anomalies lie along a moderately strong N-S trending magnetic linear that occurs south of the Tertiary volcanic rocks of the Tres Hermanas Mountains. The anomalies are within lacustrine and fluvial deposits.

Anomalies 56 and 57

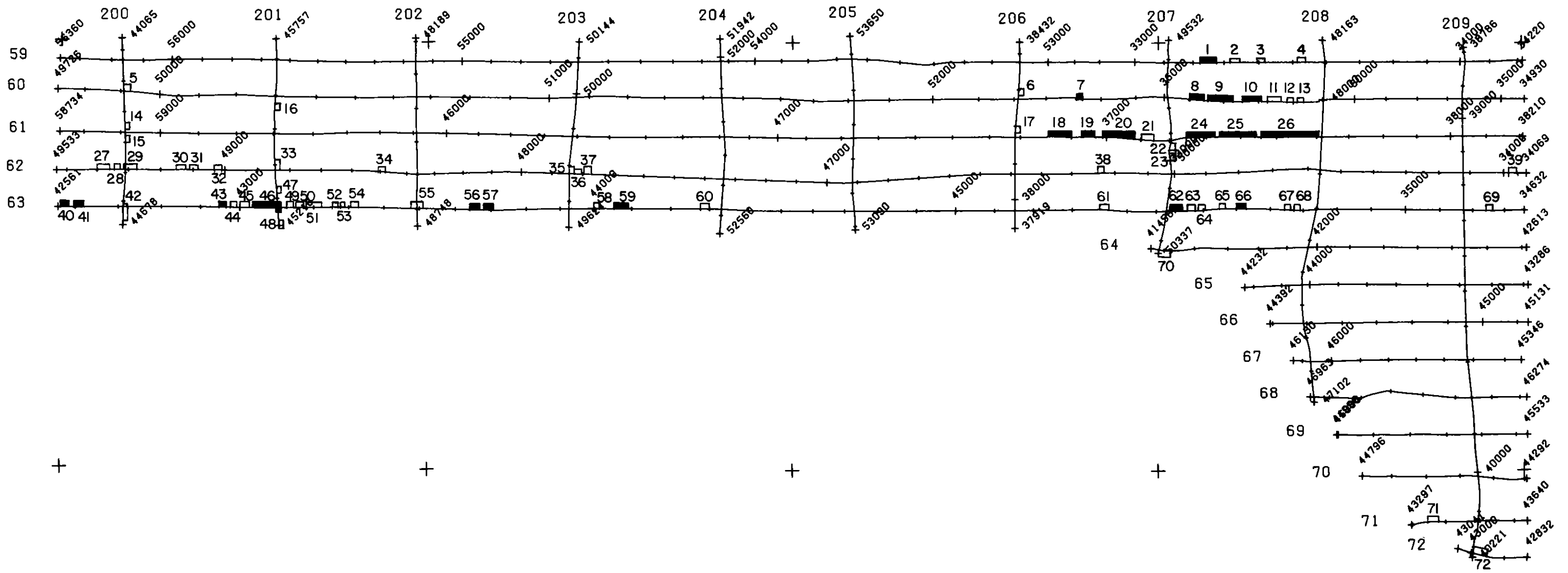
These anomalies, which are associated with lacustrine and fluvial deposits, occupy a low lying area near Coyote Hill. A number of N-S trending and short wavelength magnetic linears exist beneath this area, and this region appears to have been subjected to block faulting.

Anomaly 59

This anomaly, to the south of Guzmans Lookout Mountain, is in a volcanic vent field. Many N-S trending magnetic linears typify this area.

Anomaly 62

Anomaly 62 occurs on Comanche Peak, adjacent to the city of El Paso, Texas. In this area, N-S trending outcrops of Bliss sandstone and PreCambrian granites parallel the strike of the Franklin Mountains. A N-E trending fault is associated with this anomaly. Anomaly 62 has a maximum response of 4.1 sigma.



+

+

+

+

+

+

LEGEND
 □ STATISTICALLY SIGNIFICANT •U ANOMALIES
 ■ PREFERRED ANOMALIES

SCALE 1:500 000

FIGURE 1 EL PASO QUADRANGLE

TABLE 1

DESCRIPTION OF MAP UNITS

<u>SEDIMENTARY</u>			
Qu	UNDIVIDED QUATERNARY DEPOSITS Sand, gravel, clay, caliche, and terrace deposits.	Om	MONTOYA FORMATION (ORDOVICIAN) Dolomite, limestone and sandstone.
Qs	WINDBLOWN SAND (QUATERNARY)	Oe	EL PASO FORMATION (ORDOVICIAN) Limestone, dolomite and sandstone.
Qal	ALLUVIUM (QUATERNARY) Sand, gravel, and terrace deposits.	EOB	BLISS SANDSTONE (ORDOVICIAN AND CAMBRIAN) Sandstone.
Qb	LACUSTRINE AND FLUVIAL DEPOSITS (QUATERNARY) Clay, Silt, sand and gypsum in boisons.	pEu	UNDIVIDED PRECAMBRIAN ROCKS Basalt boulders, mudstone, limestone, hornfels, conglomerate, dolomite, diabase, rhyoite, sandstone, quartzite, siltstone, and shale.
Qf	COLLUVIUM AND FANS (QUATERNARY) Sand and gravel.	pEl	LANORIA QUARTZITE (PRECAMBRIAN) Sandstone, quartzite, siltstone, and shale.
Qao	OLDER ALLUVIUM (TERTIARY) Sand, gravel, terrace deposits, and caliche.		<u>IGNEOUS</u>
Qtg	GILA CONGLOMERATE (TERTIARY) Conglomerate.	Qv	Undivided volcanic rocks, ash cinders, lapilli, and breccia (QUATERNARY)
Qtb	BOLSON DEPOSITS (TERTIARY) Clay, Sand, and gravel.	Qba	Basalt flows (QUATERNARY)
Ku	UNDIVIDED CRETACEOUS ROCKS Redbeds, sandstone, limestone, and conglomerate.	QTba	Basalt and basaltic andesite flows. (QUATERNARY)
Pal	UNDIVIDED PALEZOIC ROCKS Dolomite, limestone, sandstone, shale, and marl.	Qts	UNDIVIDED SANTA FE GROUP (QUATERNARY)
Ph	HUECO LIMESTONE (PERMIAN) Limestone, dolomite, sandstone, shale, mudstone and conglomerate.	Ti	INTRUSIVE IGNEOUS ROCKS (TERTIARY) Stocks laccoliths, silts, and dikes.
Pm	MAGDALENA FORMATION (PENNSYLVANIAN) Limestone, shale, and marl.	Tv	EXTRUSIVE ROCKS (TERTIARY)
DM	UNDIVIDED DEVONIAN AND MISSISSIPPIAN ROCKS Limestone, shale, and chert.	Tvu	Quartz latite, latite and andesite.
SOE	UNDIVIDED SILURIAN ORDOVICIAN AND CAMBRIAN ROCKS Dolomite, limestone, and sandstone.	Tvl	Quartz latite, rhyolite, and andesite.
Sf	FUSSELMAN DOLOMITE (SILURIAN) Dolomite, dolomitic limestone and limestone	TKi	INTRUSIVE ROCKS (TERTIARY) Stocks, laccoliths, dikes, silts, and other intrusions.
		pEg	Granite (PRECAMBRIAN)
		pEr	Rhyolite. (PRECAMBRIAN)

TABLE 2

COMPARISON OF GEOLOGIC MAP SYMBOLS WITH COMPUTER DESIGNATIONS

<u>Computer Code</u>	<u>MAP UNIT CODE</u>	<u>DATA CODE</u>
101	Qu	QU
102	Qs	QS
103	Qal	QAL
104	Qb	QB
105	Qf	QF
106	Qao	QAO
107	Qv	QV
108	Qba	QBA
109	QTg	QTG
110	QTb	QTB
111	QTba	QTBA
112	QTS	QTS
113	Ti	TI
114	Tv	TV
115	Tvu	TVU
116	Tvl	TVL
117	Tki	TKI
201	Ku	KU
301	Pal	PAL
302	Ph	PH
303	Pm	PM
304	Dm	DM
305	SOE	SOE
306	Sf	SF
307	Om	OM
308	Oe	OE
309	eOb	COB
401	pEu	PCU
402	pEl	PCL
403	pEg	PCG
404	pEr	PCR

2.5 CONCLUSIONS

Many of the preferred anomalies appear to be related to the N-S trending magnetic linears that exist in the study area. The majority of these anomalies occur in low lying areas adjacent to what appears to be uplifted fault blocks.

2.6 SUGGESTIONS FOR FURTHER WORK

Further work can be considered in three general categories:

- (a) Airborne follow-up
- (b) Ground studies
- (c) Sub-surface studies

An airborne follow-up could be used to more accurately define certain areas in question. The areas in question in this quadrangle are along the Tres Hermanas Mountains, the Carrizalillo Hills, and the Franklin Mountains in the northern half of the quadrangle. This detailed survey could be used as a base for a ground reconnaissance and sub-surface study. A program to evaluate the radon gas content of both groundwater and soil would be of great value.

TABLE 3 - EQUIVALENT URANIUM ANOMALIES - EL PASO NH 13-1

Anom. No.	F.L. No.	Geo. Fm.	Number of Points															Sigma
			eU			eTh			K			eU/eTh			eU/K			
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
1*	59	Qs,Qb,Qf	6	1	2	-	-	2	1	1	-	1	-	-	3	-	1	
2	59	Qb	4	-	-	-	-	-	-	-	-	2	2	-	3	1	-	
3	59	Qb	5	-	-	-	-	-	-	-	-	2	1	1	1	4	-	
4	59	Qs,Qb	4	-	-	-	-	-	-	-	-	-	1	-	3	1	-	
5	200	Qb	2	1	-	1	-	-	-	-	-	-	-	-	3	-	-	
6	206	QTg	2	1	-	-	-	-	-	-	-	3	-	-	1	2	-	
7*	60	Qal	1	1	1	-	-	-	-	-	-	3	-	-	2	-	-	
8*	60	QU,Qf	4	5	1	1	7	1	6	2	-	-	-	-	-	-	-	
9*	60	Qf,Qb	4	8	1	1	2	-	3	-	-	3	1	-	6	4	-	
10*	60	Qb,Qs	6	2	2	2	2	1	3	3	-	1	-	1	2	3	1	
11	60	Qs	6	4	-	3	1	-	6	-	-	3	-	-	6	1	-	
12	60	Qb,Qs	3	1	-	1	-	-	1	-	-	1	1	-	2	-	-	
13	60	Qs	2	1	-	1	-	-	-	-	-	1	-	1	2	1	-	
14	200	Qb	3	2	-	-	-	-	-	-	-	-	-	-	4	-	-	
15	200	Qb	4	1	-	4	-	-	-	-	-	-	-	-	2	-	-	
16	201	TKi	2	1	-	-	-	-	1	-	-	-	-	-	-	-	-	
17	206	QTg	2	2	-	-	-	-	-	-	-	1	2	-	1	2	1	
18*	61	Qal	7	5	1	8	2	-	-	-	-	2	-	-	6	-	-	
19*	61	Qal,Qs,QU	2	3	3	-	-	4	1	1	-	2	-	-	3	1	2	
20*	61	QU,Ph	12	6	2	10	1	3	11	-	3	-	-	-	-	-	-	
21	61	QU	3	4	-	4	3	-	4	3	-	-	-	-	-	-	-	
22	207	pCr	3	1	-	1	1	-	1	1	-	1	-	-	-	-	-	
23	207		-	2	-	1	-	1	-	-	2	-	-	-	-	-	-	
24*	61	Qf	4	6	5	2	9	4	6	9	-	-	-	-	-	-	-	
25*	61	Qb	15	6	2	-	-	-	-	-	-	6	12	5	3	7	13	
26*	61	Qs,Qb	10	14	7	9	-	-	9	2	-	9	9	3	9	12	3	
27	62	Qb	4	3	-	5	-	-	1	-	-	-	-	-	-	-	-	
28	62	Qb	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-	
29	62	Qb	7	1	-	3	-	-	2	-	-	-	-	-	1	-	-	
30	62	Qb,Qba	1	3	-	1	1	-	-	-	-	2	-	-	-	1	1	

* PREFERRED ANOMALIES

TABLE 3 EQUIVALENT URANIUM ANOMALIES - Continued

Anom. No.	F.L. No.	Geo. Fm.	Number of Points															Sigma
			eU			eTh			K			eU/eTh			eU/K			
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
31	62	Qb	4	-	-	4	-	-	2	-	-	-	-	-	-	-	-	
32	62	Qb	4	-	-	3	1	-	3	-	-	-	-	-	-	-	-	
33	62	Tvu	5	1	-	1	-	-	1	-	-	-	-	-	-	-	-	
34	201	Qb	4	1	-	-	-	-	2	-	-	-	-	-	1	-	-	
35	62	Qba	5	-	-	-	2	-	5	-	-	2	-	-	-	-	-	
36	203	Qba	4	-	-	-	-	-	3	1	-	2	1	-	-	-	-	
37	62	QBA	2	1	-	-	-	-	3	-	-	-	-	-	-	1	-	
38	62	Qal	-	2	-	-	-	-	-	-	-	-	-	2	-	2	-	
39	62	Ph	4	-	-	-	-	-	-	-	-	2	-	-	1	-	-	
40*	63	Qb	2	2	-	2	2	-	-	-	4	-	-	-	-	-	-	
41*	63	Qb	2	4	1	3	4	-	-	-	7	-	-	-	-	-	-	
42	200	Qb	5	5	-	3	7	-	-	-	10	-	-	-	-	-	-	
43*	63	Qb	2	-	1	3	-	-	-	-	-	-	-	-	-	1	-	
44	63	Qb	3	2	-	5	-	-	-	-	-	-	-	-	1	-	-	
45	63	Qb	3	1	-	4	-	-	-	-	-	-	-	-	-	-	-	
46*	63	QTg,Qb	11	9	1	17	4	-	14	1	-	-	-	-	2	-	-	
	201																	
47	201	Tvu,Qb	1	2	-	1	2	-	1	2	-	-	-	-	-	-	-	
48	201	Qb	4	1	-	5	-	-	3	-	-	-	-	-	-	-	-	
49	63	Qb	2	1	-	2	1	-	3	-	-	-	-	-	-	-	-	
50	63	Qb	2	3	-	1	4	-	4	1	-	-	-	-	-	-	-	
51	63	Qb	9	2	-	2	9	-	10	1	-	-	-	-	-	-	-	
52	63	Qb	-	2	-	2	-	-	-	-	-	-	-	-	2	-	-	
53	63	Qba,Qb	2	1	-	1	-	1	1	1	-	-	-	-	-	-	-	
54	63	Qb	3	1	-	2	-	-	2	-	-	-	-	-	1	-	-	
55	63	Qb	5	1	-	-	-	-	-	-	-	-	-	-	1	-	-	
	202																	

* PREFERRED ANOMALIES

TABLE 3 EQUIVALENT URANIUM ANOMALIES - Continued

Anom. No.	F.L. No.	Geo. Fm.	Number of Points															Sigma
			eU			eTh			K			eU/eTh			eU/K			
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
56*	63	Qb	3	1	1	-	-	-	-	-	-	1	-	-	3	1	-	
57	63	Qb	3	-	1	-	-	-	-	-	-	-	-	-	-	1	-	
58	63	Qba, Qb	-	2	-	-	-	-	1	-	-	-	2	-	-	-	-	
59*	63	Qba	4	1	1	-	-	-	3	-	-	1	2	1	2	-	-	
60	63	Qba	4	-	-	-	-	-	-	-	-	3	1	-	1	-	-	
61	63	Qal	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-	
62*	63	COB, pCg, Qf	5	-	3	-	-	3	-	1	2	-	-	-	2	-	-	
63	63	Qao	4	-	-	-	-	-	-	-	-	4	-	-	4	-	-	
64	63	Qao, QTb	3	1	-	1	-	-	-	-	-	1	1	-	3	-	1	
65	63	Qb, Qs	-	2	-	1	-	-	-	-	-	2	-	-	-	1	1	
66*	63	Qs	3	-	1	-	-	-	-	-	-	1	2	-	2	1	1	
67	63	Qs	2	1	-	-	-	-	-	-	-	1	-	1	1	-	1	
68	63	Qs	3	1	-	-	-	-	-	-	-	3	-	-	2	1	-	
69	63	Qf, Pm	3	1	-	-	-	-	-	-	-	1	-	1	2	1	1	
70	207	Qal	-	1	1	-	-	-	-	-	-	1	-	1	-	1	1	
71	71	Qal	3	1	-	2	-	-	-	-	-	-	-	-	-	-	-	
72	71	Qal	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	209																	

* PREFERRED ANOMALIES

3.0 REFERENCES

3.1 BIBLIOGRAPHY

Adams, John A. S. and Lowder, Wayne M. (Editors) - THE NATURAL RADIATION ENVIRONMENT - The University of Chicago Press, Chicago, (1964).

Adams, John S. and Gasparini, Paolo - GAMMA-RAY SPECTROMETRY OF ROCKS - Elsevier Publishing Company, Amsterdam, (1970).

Arnold, Emery C. and Hill, James M. (Editors) - NEW MEXICO'S ENERGY RESOURCES '79-New Mexico Bureau of Mines and Mineral Resources, Circulr 172, (1980)

Eardley, A. J. - STRUCTURAL GEOLOGY OF NORTH AMERICA - Harper and Row, New York, (1962).

Foster, Roy W., Frentress, Richard M. and Riese, Walter C.- SUBSURFACE GEOLOGY OF EAST-CENTRAL NEW MEXICO- New Mexico Georlogical Society, Special Publication No. 4, (1972).

Kelly, Vincent C. - GEOLOGY OF THE PECOS COUNTRY, SOUTH-EASTERN NEW MEXICO - New Mexico Bureau of Mines and Minerals Resources, Memoir 24, (1971).

Lasky, Samuel G. and Wootton, Thomas P. - THE METAL RESOURCES OF NEW MEXICO AND THEIR ECONOMIC FEATURES - New Mexico School of Mines, State Bureau of Mines and Mineral Resources, Bulletin No 7, Socorro, New Mexico, (1933).

McKelvey, V. E. - SEARCH FOR URANIUM IN THE UNITED STATES- U. S. Geological Survey, Bulletin No. 1030-A, (1955).

Rich, R. A., Holland, H. D. and Petersen, U. - HYDROTHERMAL URANIUM DEPOSITS - Elsenier Scientific Publishing Company, Amsterdam, (1977).

Ruhe, Robert V. - GEOMORPHIC SURFACES AND SURFICIAL DEPOSITS IN SOUTHERN NEW MEXICO - New Mexico Bureau of Mines and Mineral Resources, Memoir 18, (1967).

Thornbury, William D. - REGIONAL GEOMORPHOLOGY OF THE UNITED STATES - John Wiley and Sons, Inc., New York, (1965).

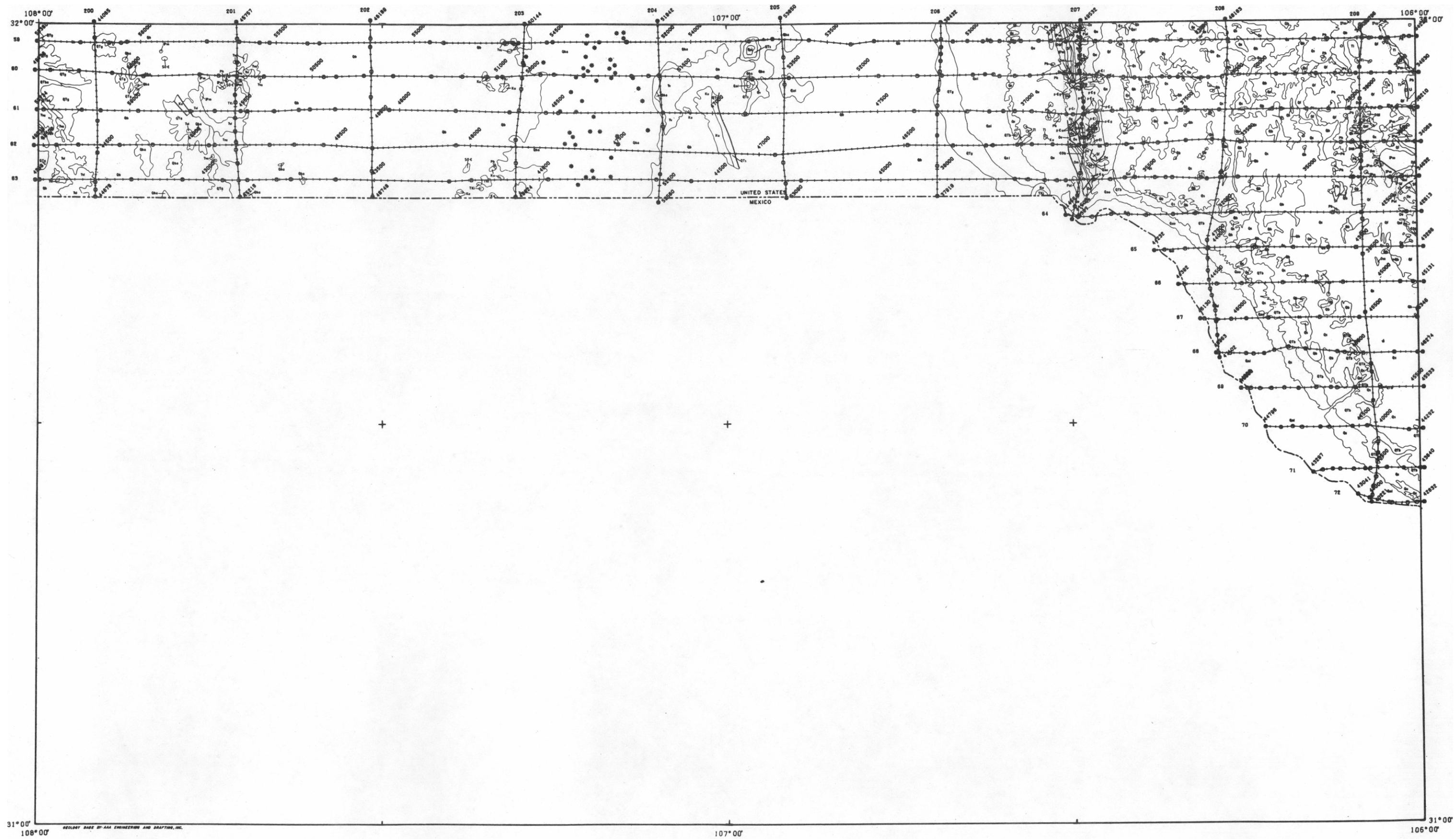
Walker, George W. and Osterwald, Frank W. - GEOLOGY OF URANIUM-BEARING VEINS IN THE CONTERMINOUS UNITED STATES- U. S. Atomic Energy Commission, Geological Survey Professional Paper 455- A, B, C, D, E, F, (1963).

Wootton, Thomas P. - GEOLOGIC LITERATURE OF NEW MEXICO - New Mexico School of Mines, State Bureau of Mines and Mineral Resources, Bulletin No. 5, Socorro, New Mexico, (1930) .

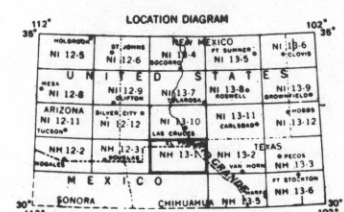
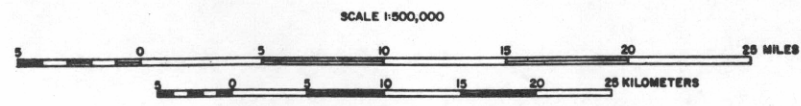
3.2 MAPS

Dane, Carle H. and Bachman, George O. - GEOLOGIC MAP OF NEW MEXICO- U. S. Geological Survey, Scale 1:500,000, (1965).

Haigler, Leon B. and Sutherland, Helen L. - REPORTED OCCURRENCES OF SELECTED MINERALS IN NEW MEXICO - U. S. Geological Survey, Mineral Investigations Resource Map Mr-45, Scale 1:500,000, (1965).



RELIEF BASE BY A.S. ENGINEERS AND DRAFTING, INC.



**NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY**

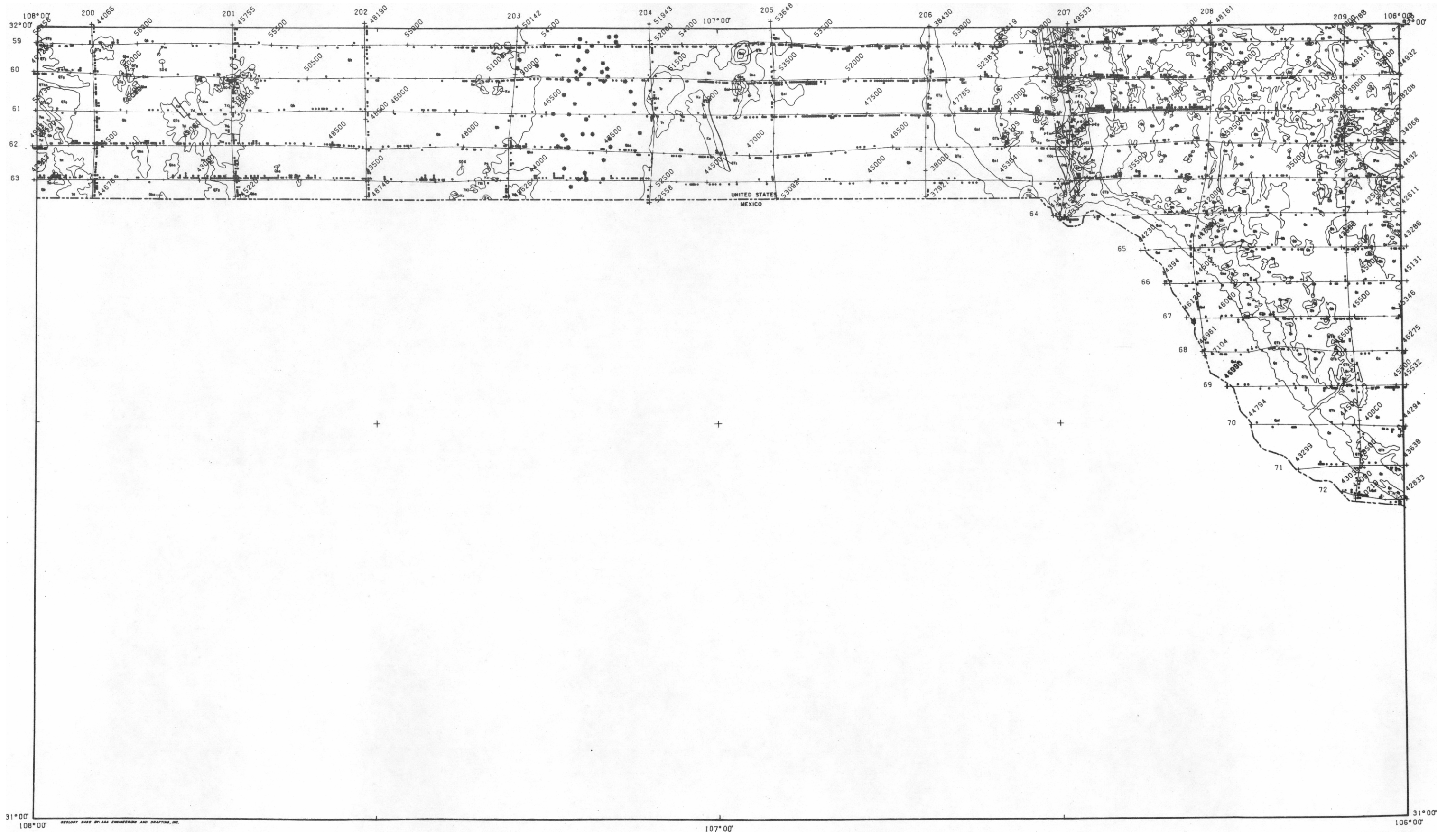
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

FLIGHT LINE BASE MAP

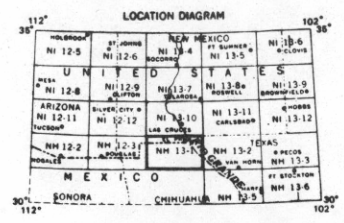
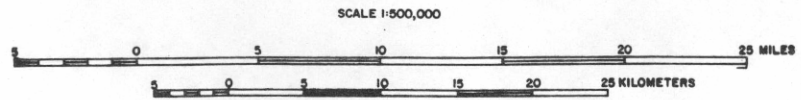
1979

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

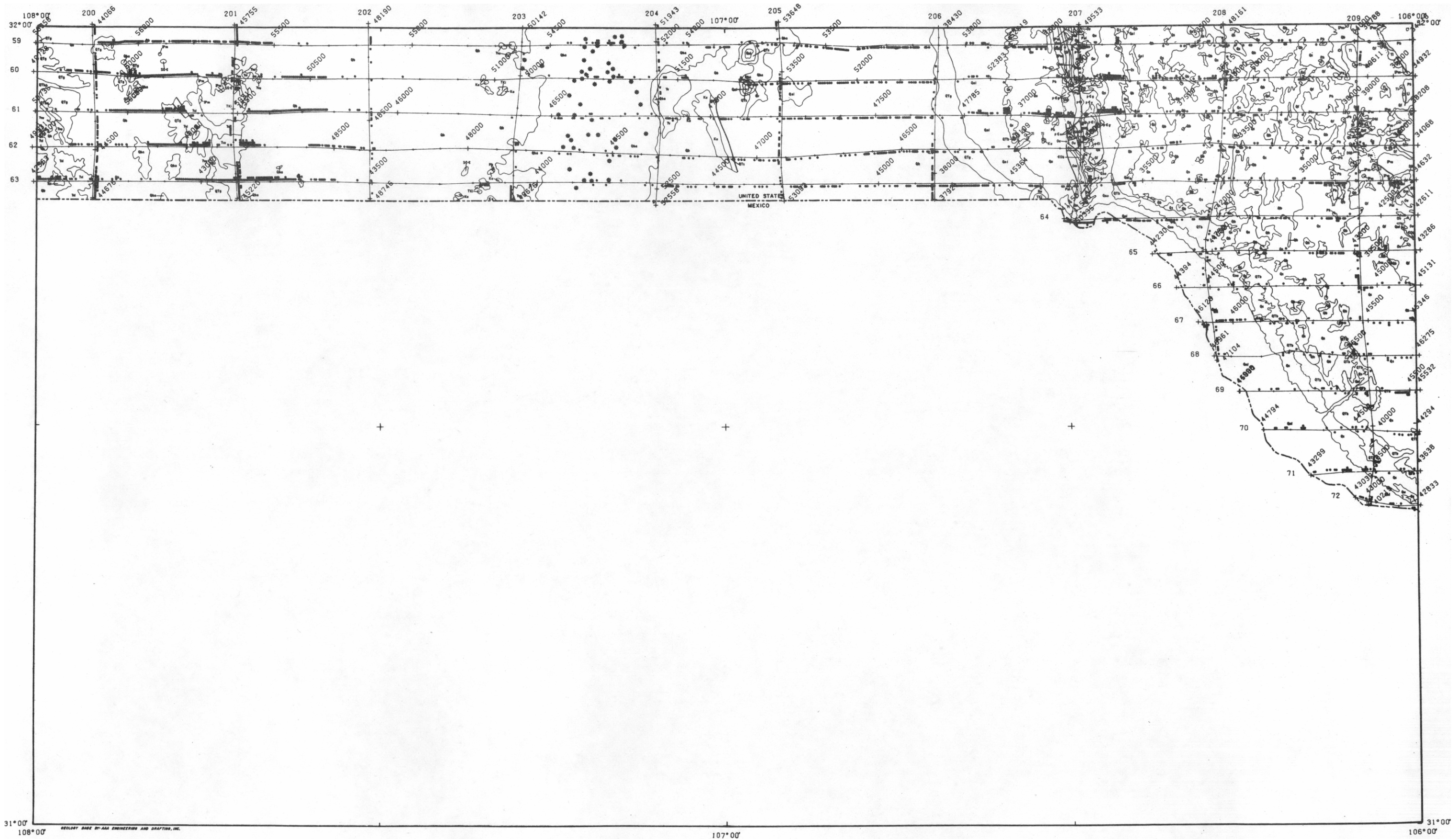
PREPARED FOR
DEPARTMENT OF ENERGY



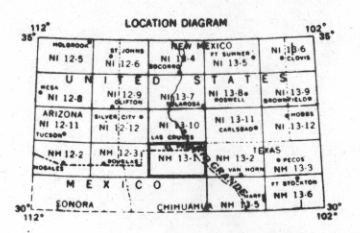
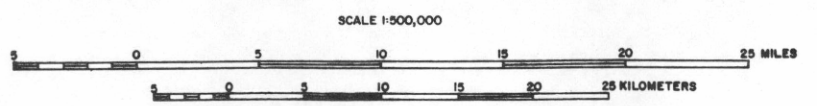
EXPLANATION
 INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES.
 AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION 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.



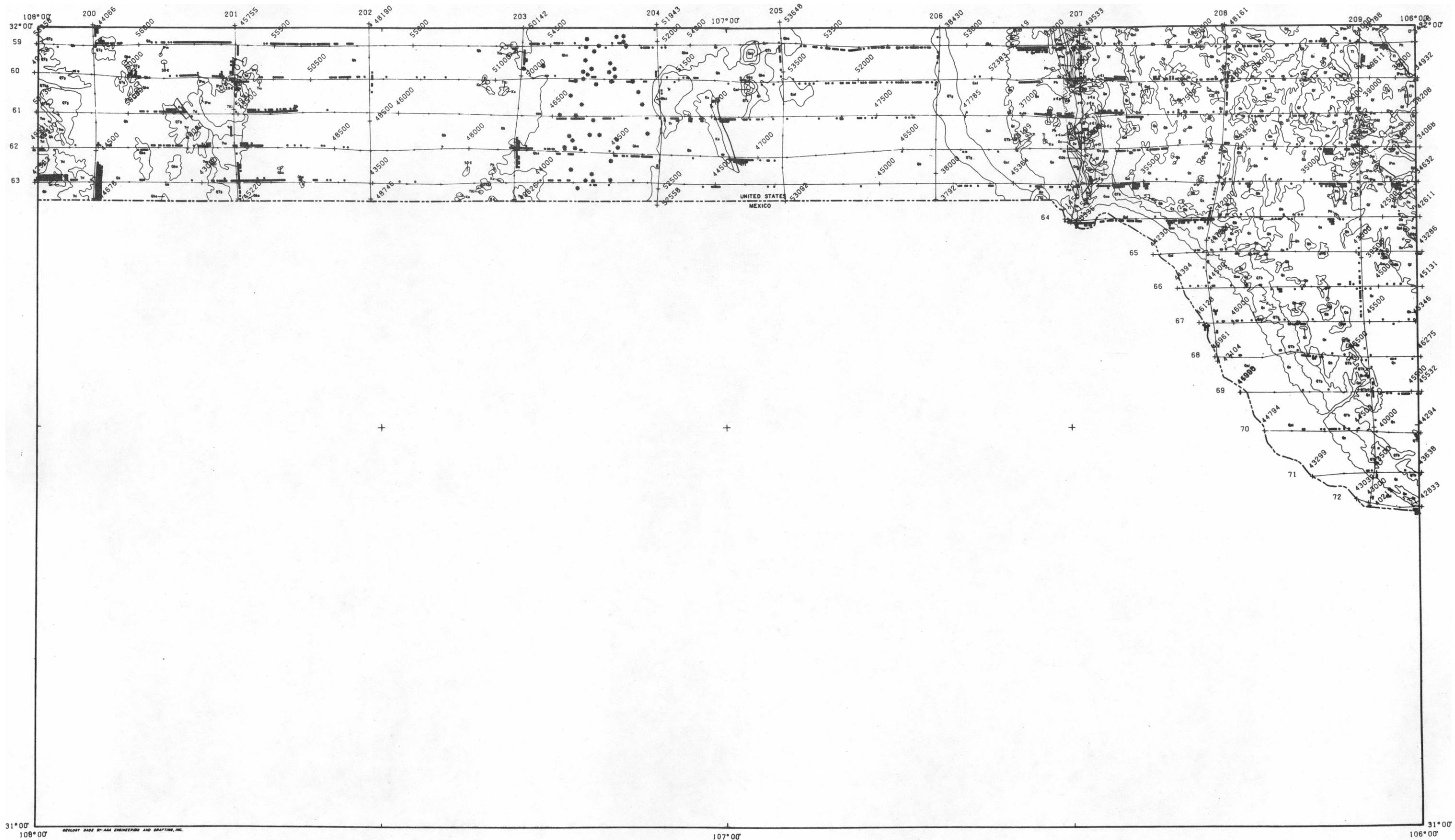
NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
ANOMALY MAP - URANIUM
 1979
 BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944
 PREPARED FOR
 DEPARTMENT OF ENERGY



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.

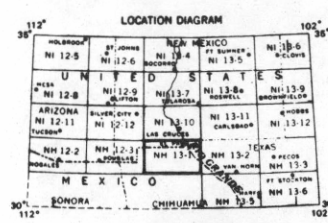
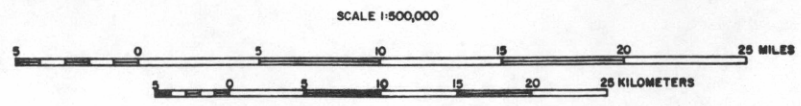


NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
ANOMALY MAP - THORIUM
 1979
 BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944
 PREPARED FOR
 DEPARTMENT OF ENERGY

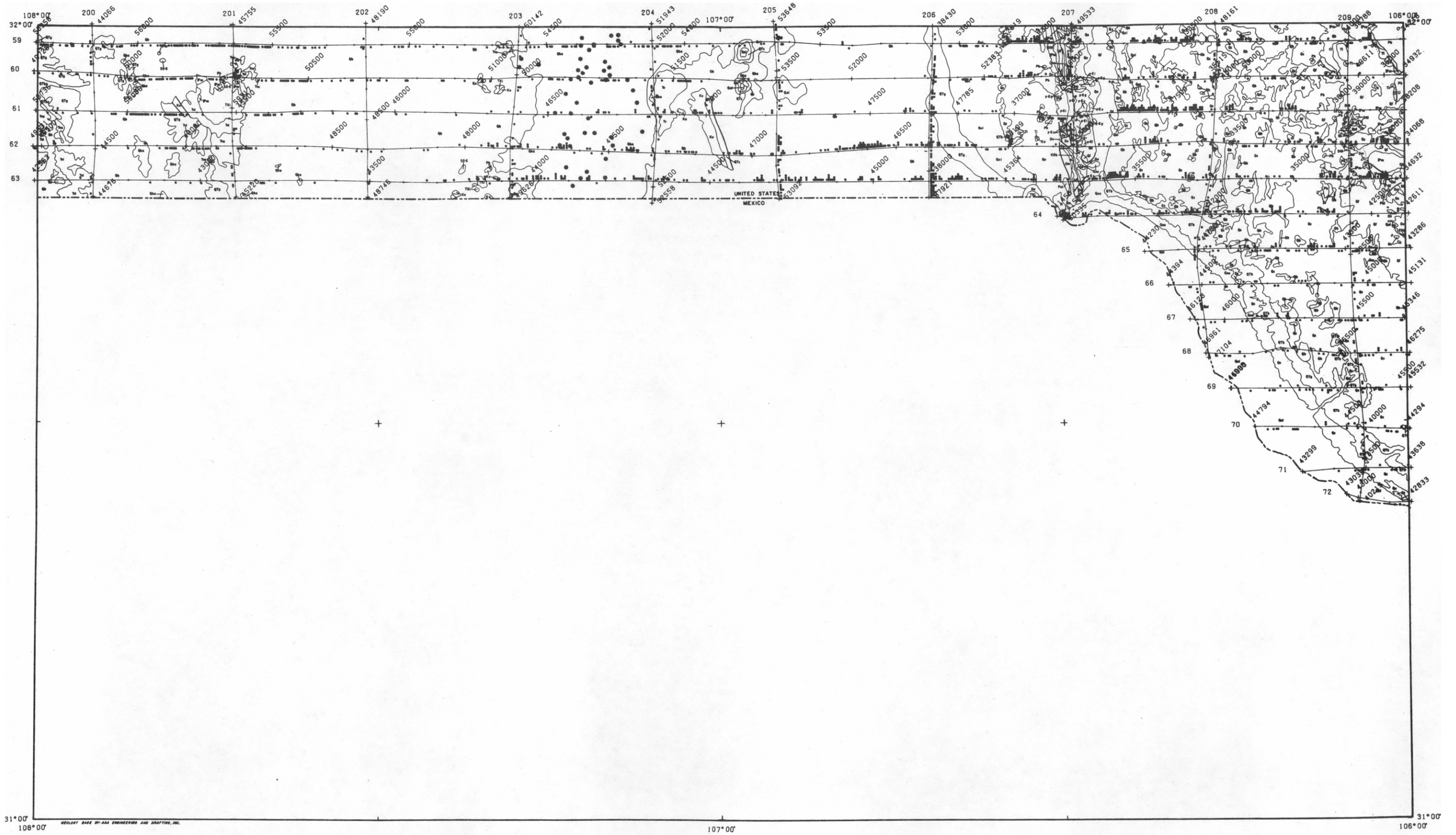


31° 00' 108° 00' REPRODUCTION BY AM ENGINEERING AND DRAFTING, INC.

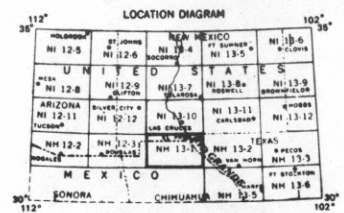
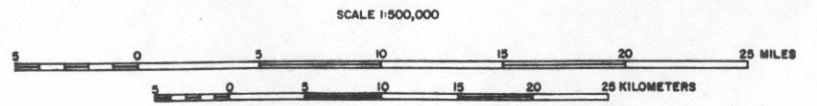
EXPLANATION
 INDIVIDUAL SAMPLES ARE PLOTTED AT 20 SAMPLE INTERVALS AND IDENTIFIED BY RECORD NUMBER AT INTERVALS OF 500 SAMPLES.
 AVERAGED SAMPLES ARE ANNOTATED IF THE DEVIATION OF THE AVERAGED SAMPLE, FROM THE MEAN OF ITS CORRESPONDING ROCK UNIT, IS GREATER THAN ± 1 STANDARD DEVIATION. THE DEVIATION 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.



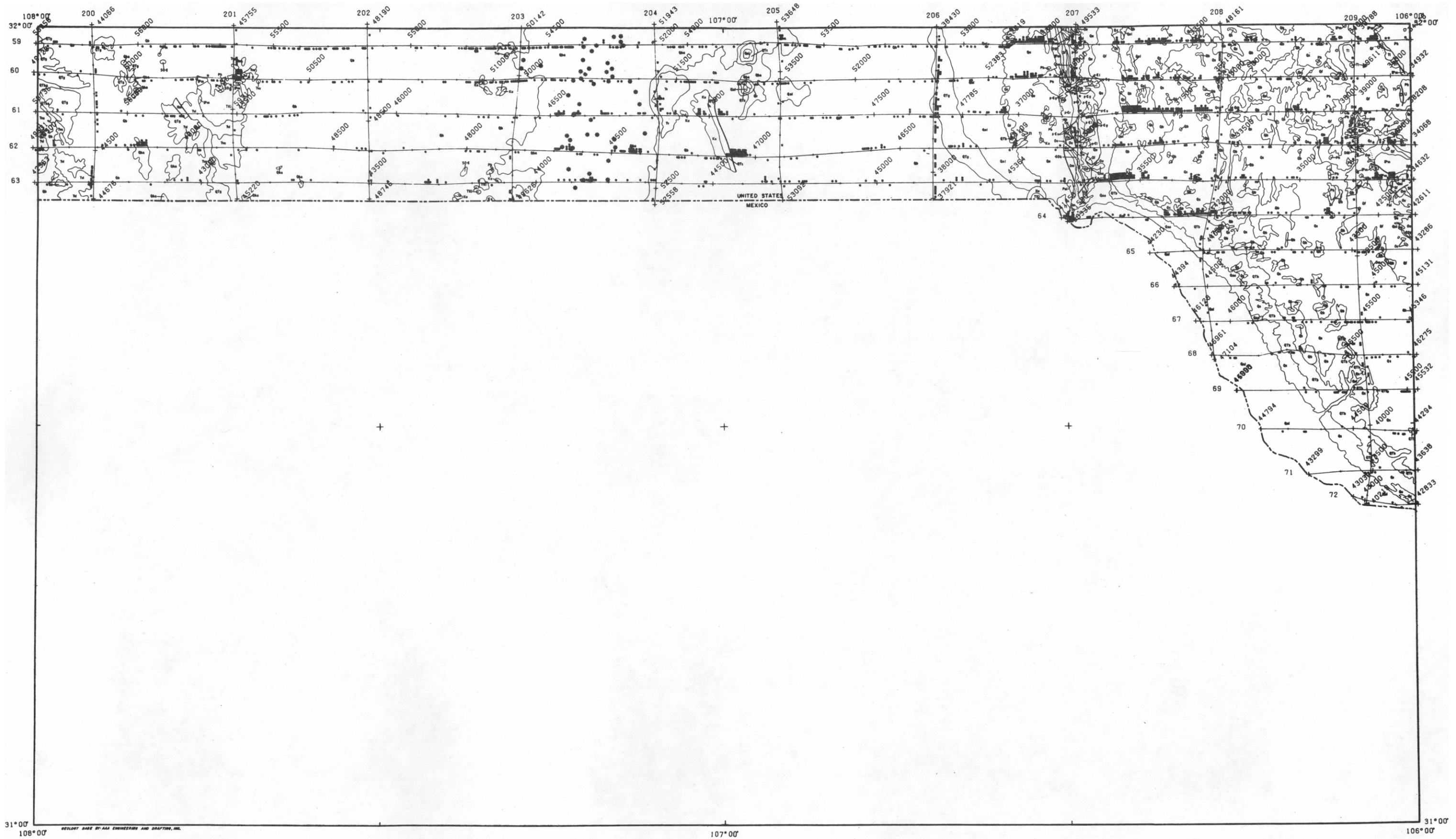
NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
ANOMALY MAP - POTASSIUM
 1979
 BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944
 PREPARED FOR
 DEPARTMENT OF ENERGY



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
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
ANOMALY MAP - URANIUM / THORIUM
 1979
 BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944
 PREPARED FOR
 DEPARTMENT OF ENERGY

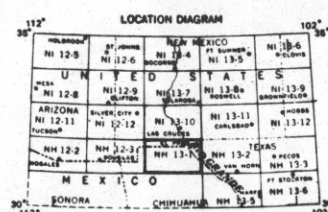
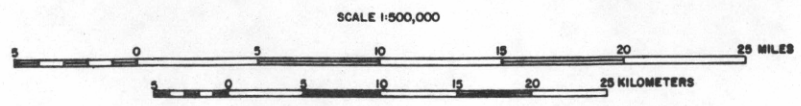


EXPLANATION

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

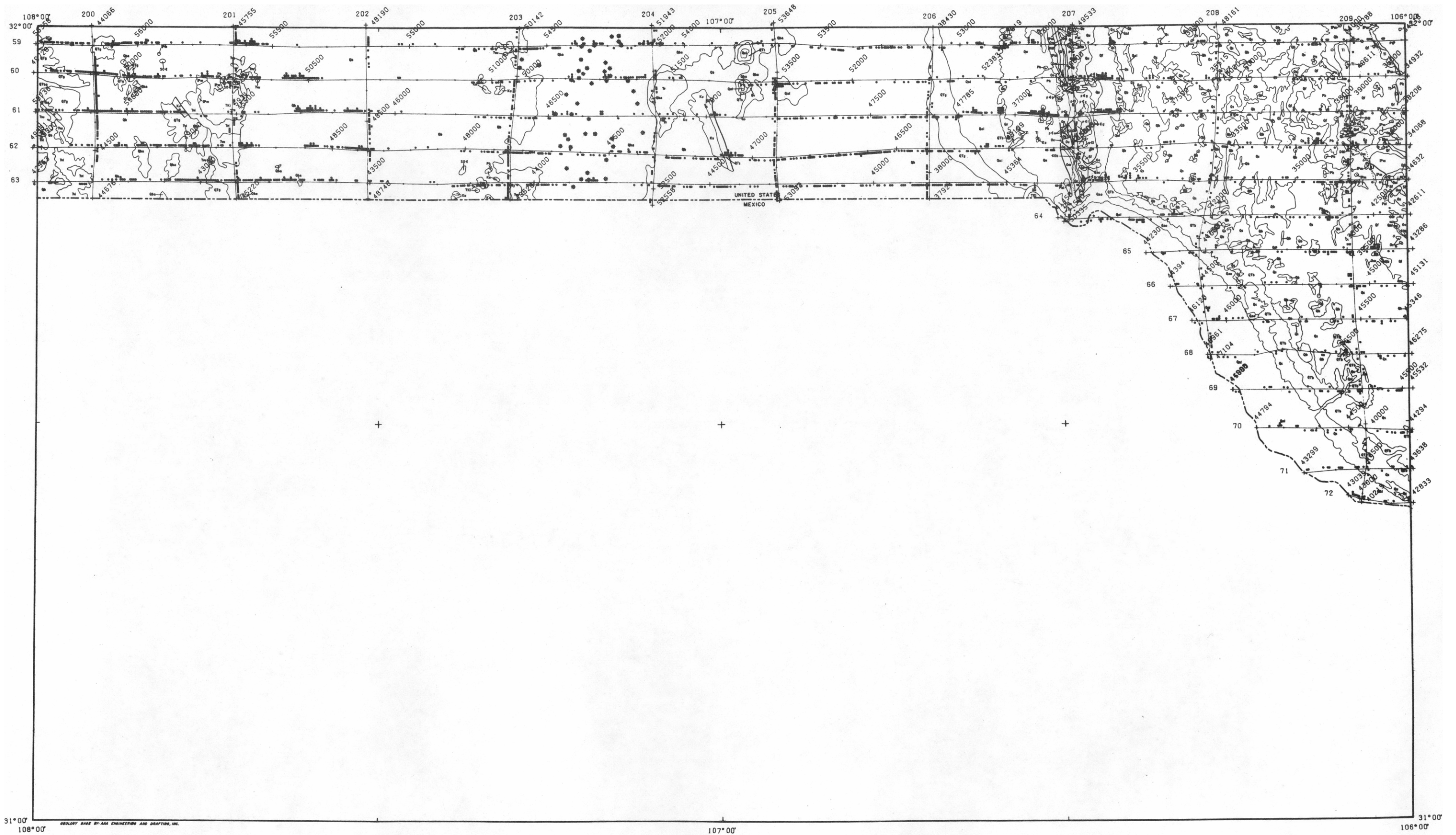
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

ANOMALY MAP - URANIUM/POTASSIUM

1979

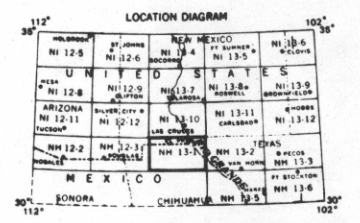
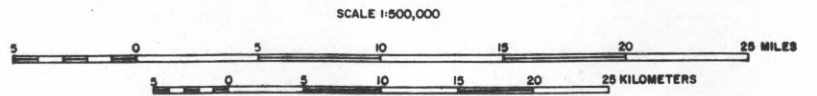
BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944

PREPARED FOR
DEPARTMENT OF ENERGY

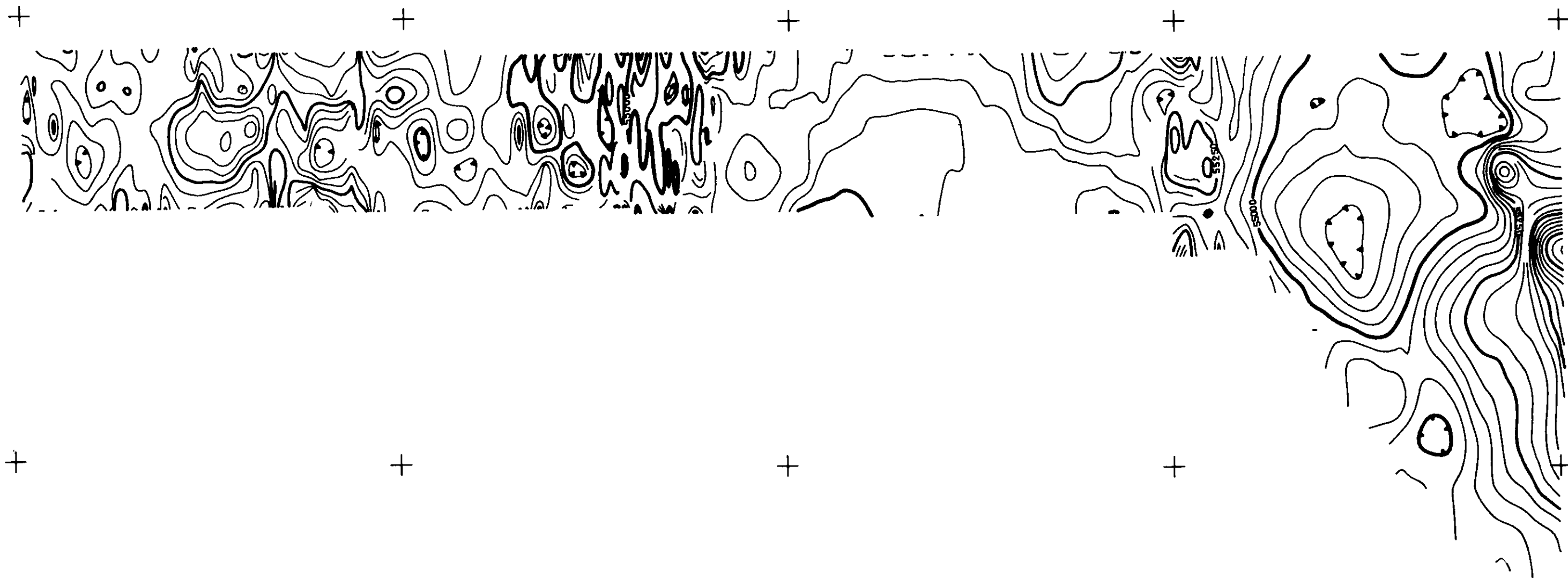


31°00' 108°00' 107°00' 106°00'

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 THE LINES BY SQUARES. NORTH OR EAST ARE POSITIVE AND SOUTH OR WEST ARE NEGATIVE.



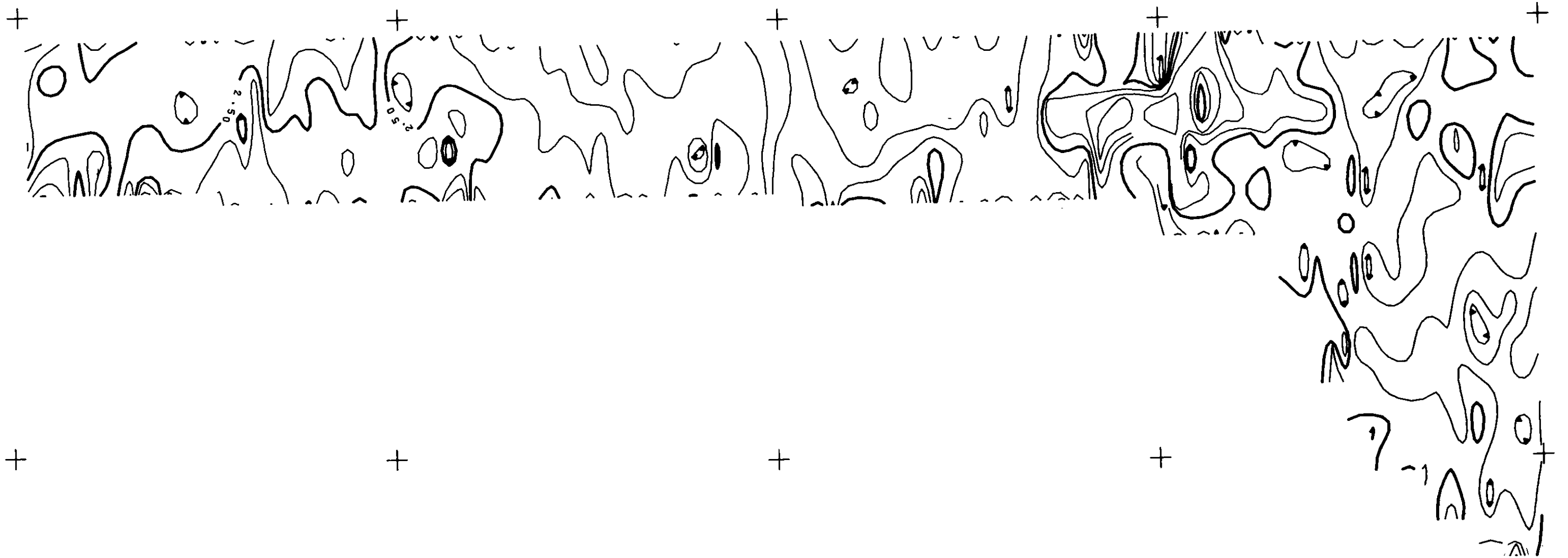
NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
ANOMALY MAP - THORIUM/POTASSIUM
 1979
 BY: CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN ROAD PERKASIE, PENNA. 18944
 PREPARED FOR
 DEPARTMENT OF ENERGY



CONTOUR INTERVAL 50 GAMMAS

SCALE 1:500,000

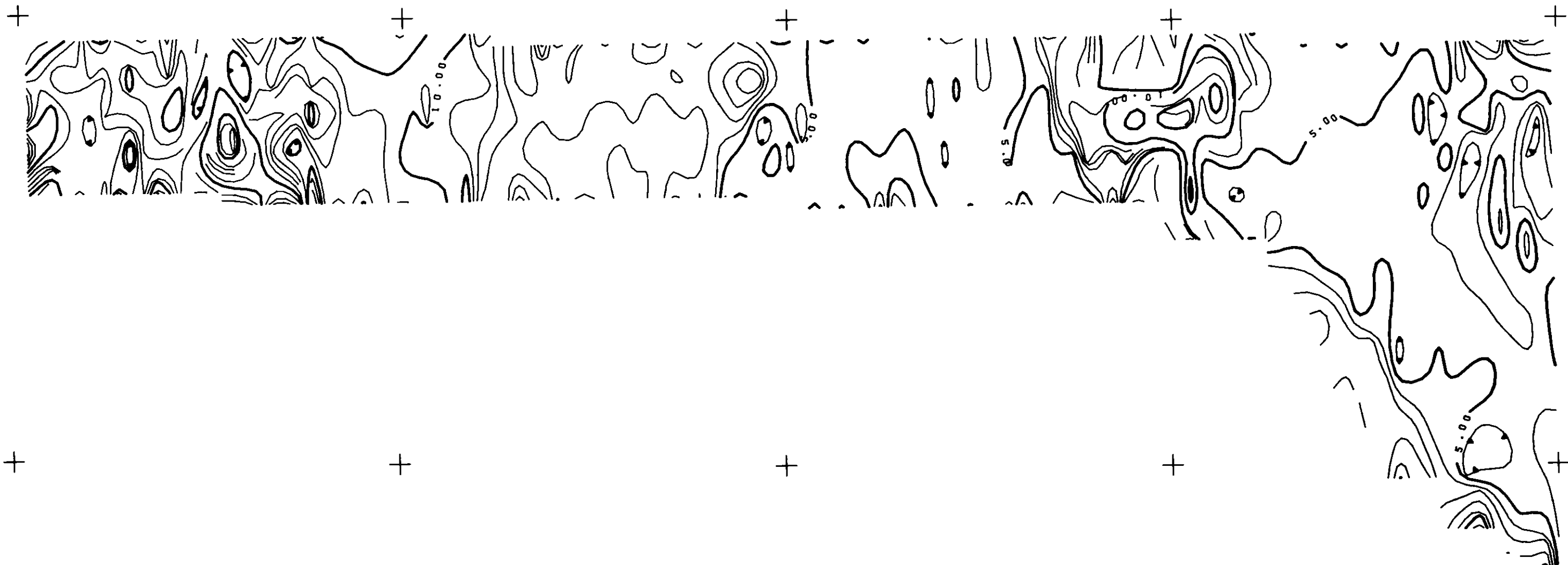
EL PASO NH 13-1
MAGNETIC



CONTOUR INTERVAL 0.50 PPM

SCALE 1:500,000

EL PASO NH 13-1
URANIUM



CONTOUR INTERVAL 1.0 PPM

SCALE 1:500,000

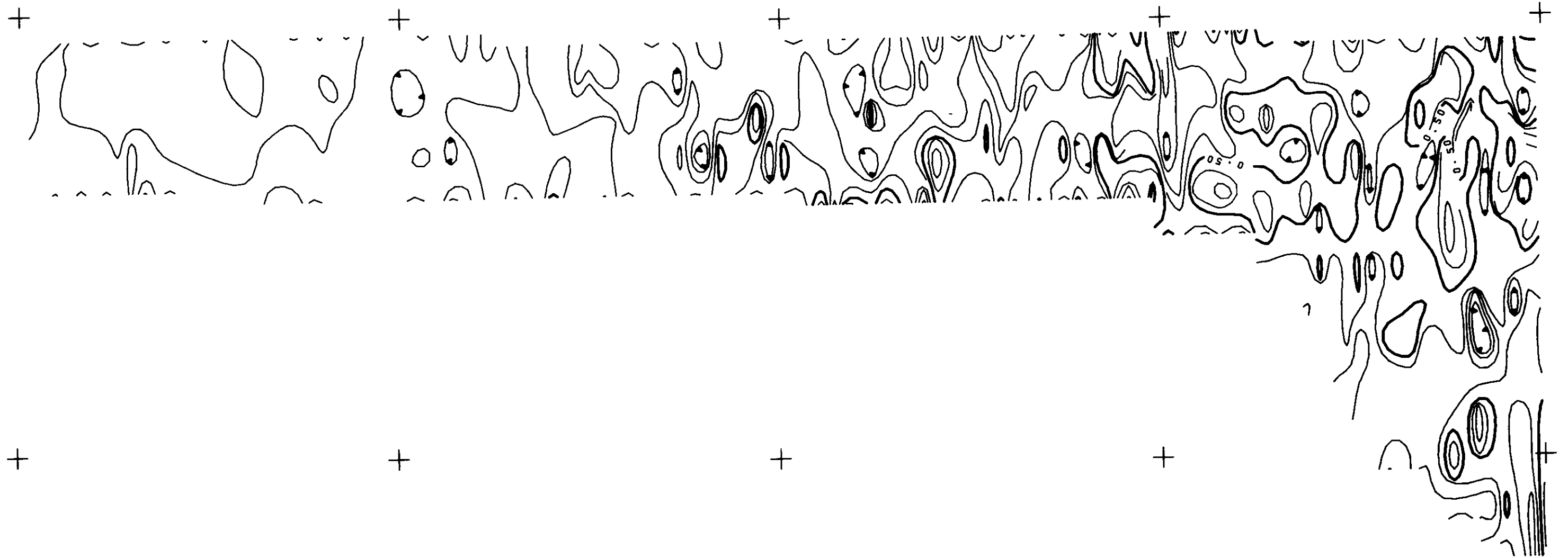
EL PASO NH 13-1
THORIUM



CONTOUR INTERVAL 25%

SCALE 1:500,000

EL PASO NH 13-1
POTASSIUM



CONTOUR INTERVAL 0.10 UNITS

SCALE 1:500,000

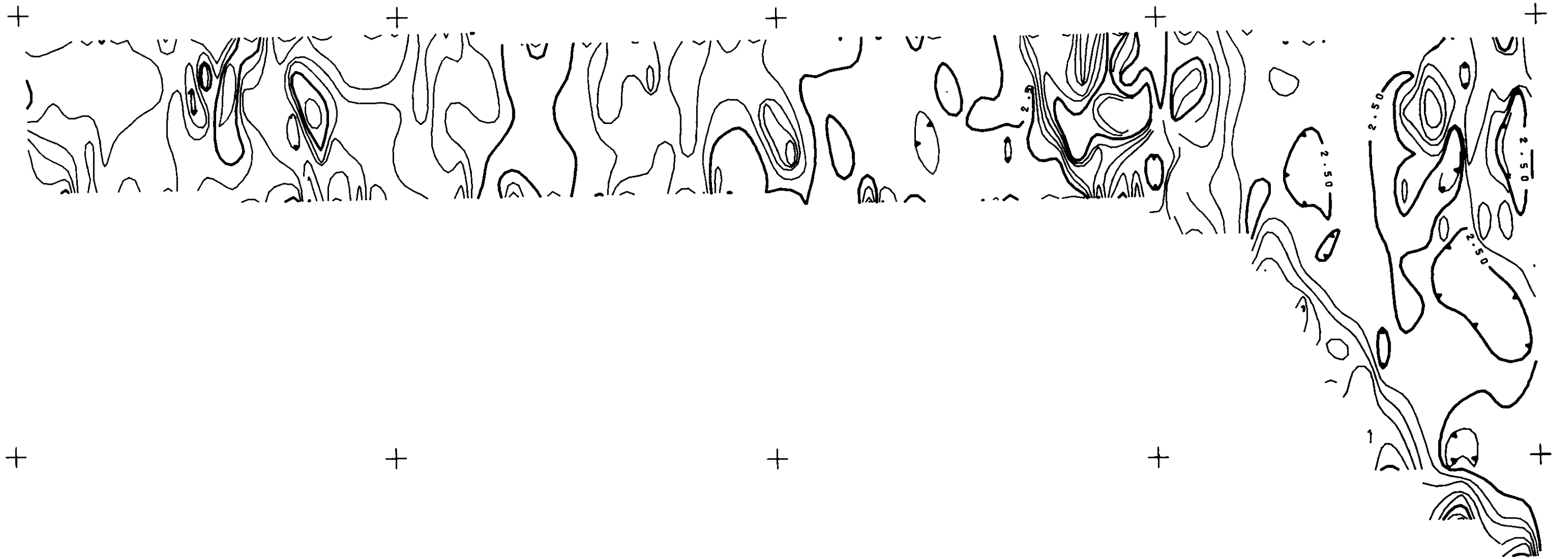
EL PASO NH 13-1
URANIUM/THORIUM



CONTOUR INTERVAL 0.50 UNITS

SCALE 1:500,000

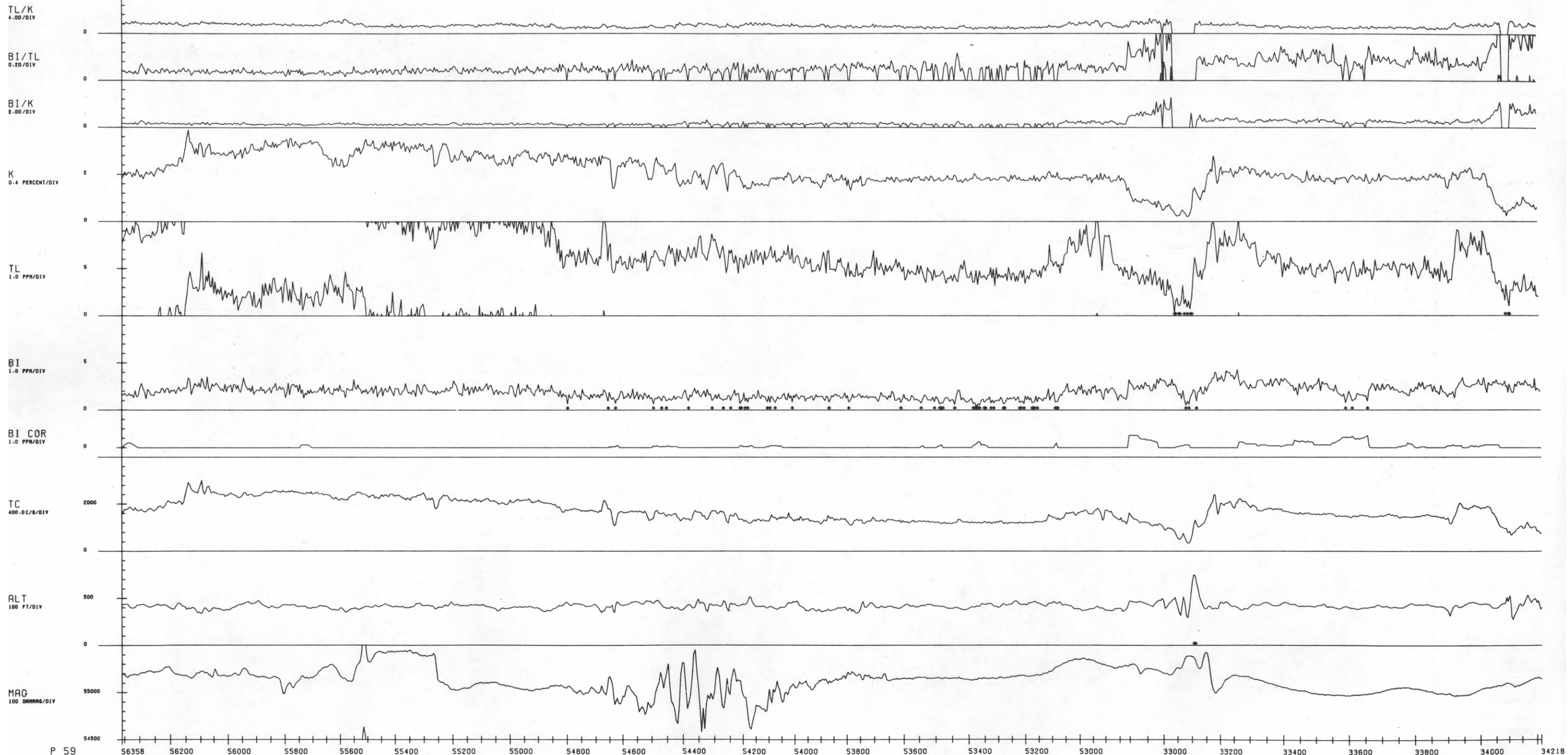
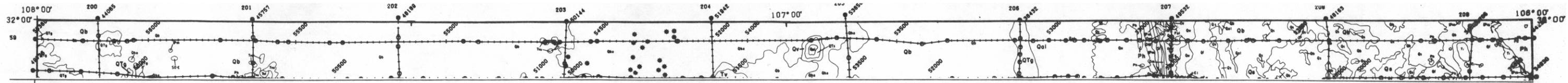
EL PASO NH 13-1
URANIUM/POTASSIUM



CONTOUR INTERVAL 0.50 UNITS

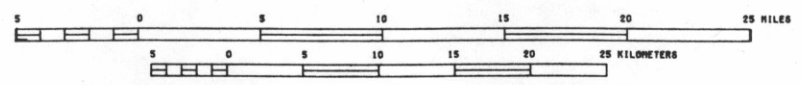
SCALE 1:500,000

EL PASO NH 13-1
THORIUM/POTASSIUM



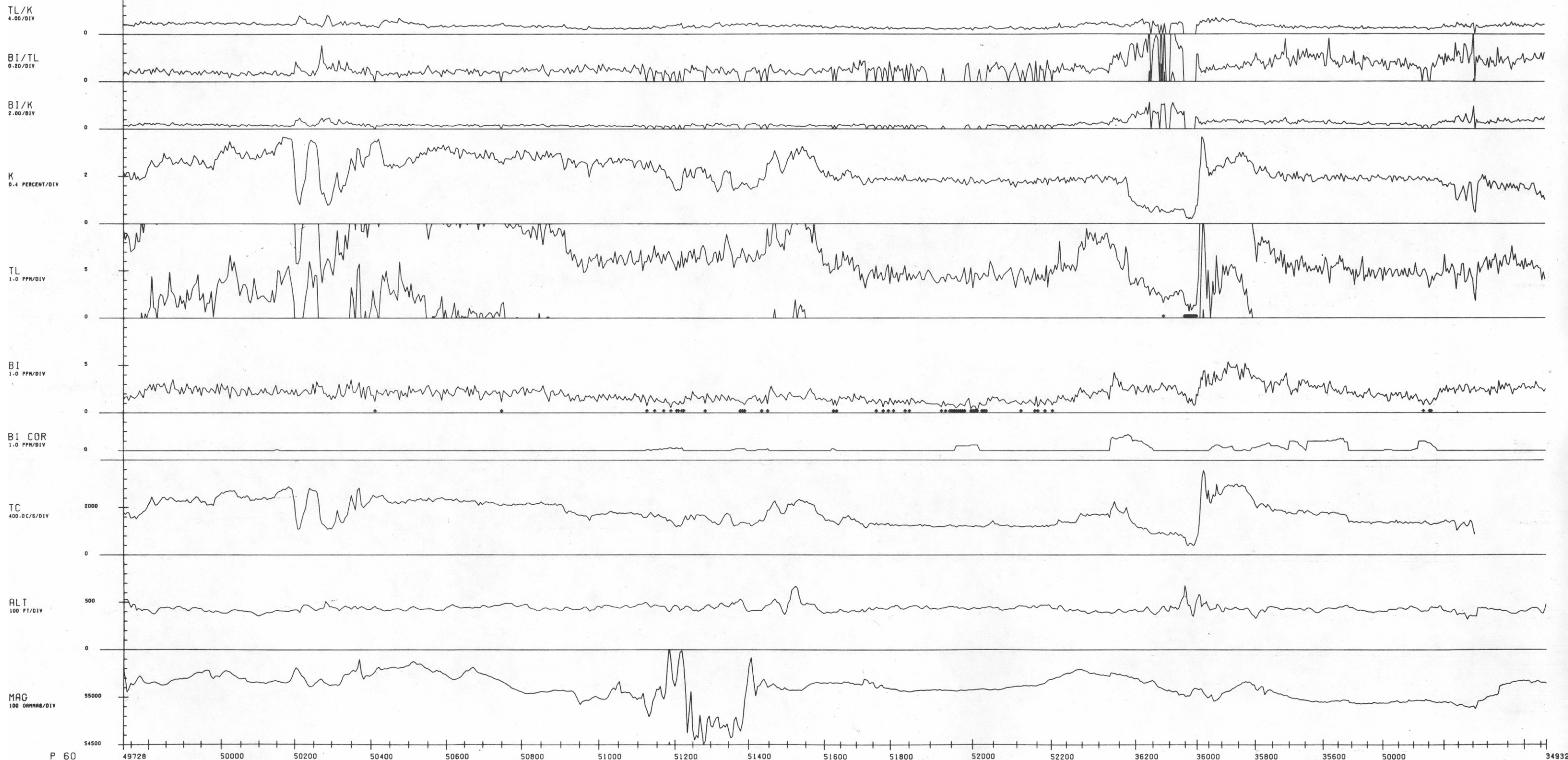
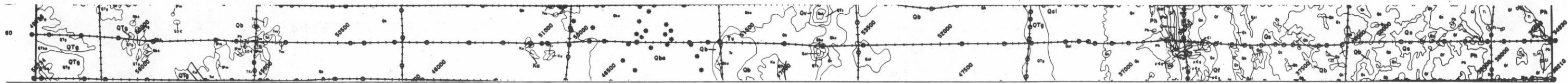
P 59 56358 56200 56000 55800 55600 55400 55200 55000 54800 54600 54400 54200 54000 53800 53600 53400 53200 53000 33000 33200 33400 33600 33800 34000 34218

SCALE 1:500,000



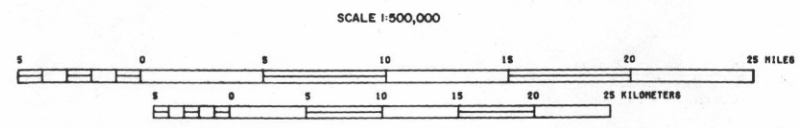
↑ FLAGGED SAMPLE VALUES OF K.U.T INDICATED DATA FAILED STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
 TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
 1979
 BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
 PREPARED FOR
 DEPARTMENT OF ENERGY

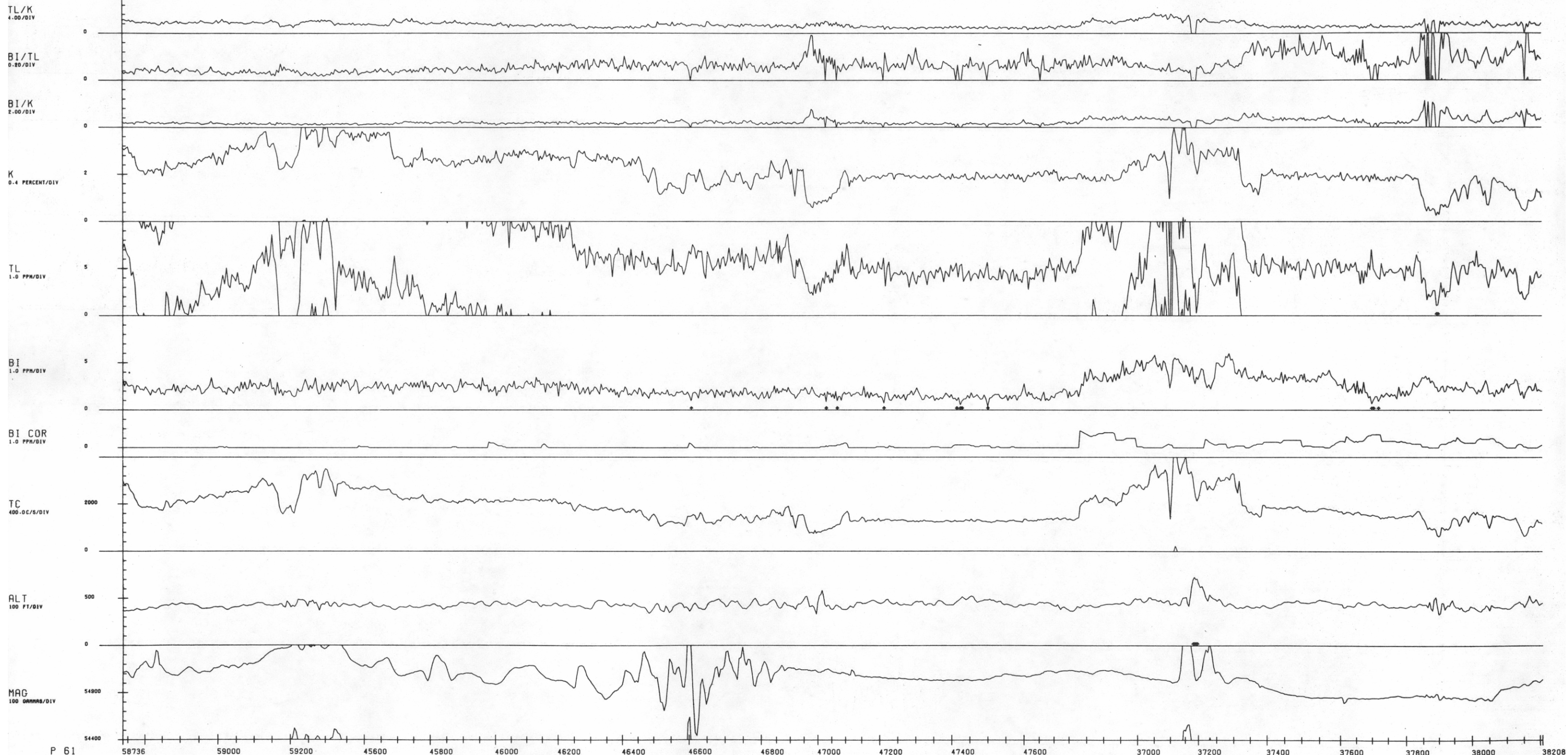


P 60

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

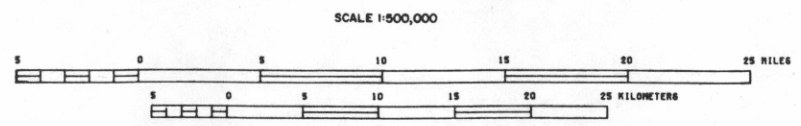


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY

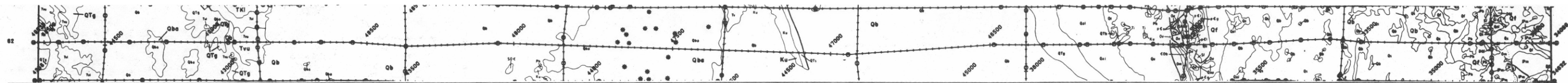


P 61

↑ FLOODED SAMPLE VALUES OF
N.U.T INDICATED DATA FAILED
STATISTICAL ACCURACY TEST



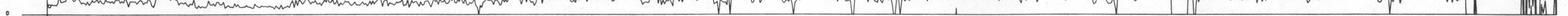
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



TL/K
4.00/DIV



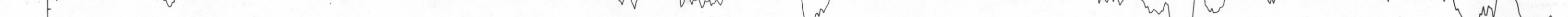
BI/TL
0.20/DIV



BI/K
2.00/DIV



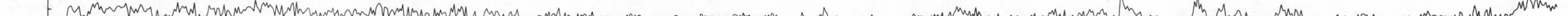
K
0.4 PERCENT/DIV



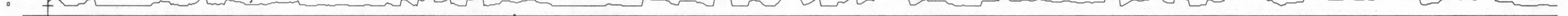
TL
1.0 PPM/DIV



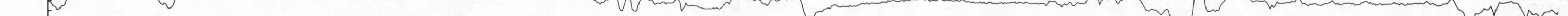
BI
1.0 PPM/DIV



BI COR
1.0 PPM/DIV



TC
400.0C/S/DIV



ALT
100 FT/DIV



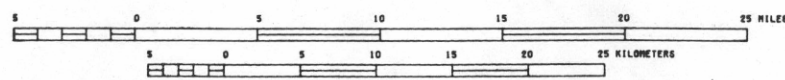
MAG
100 GAUSS/DIV



P 62

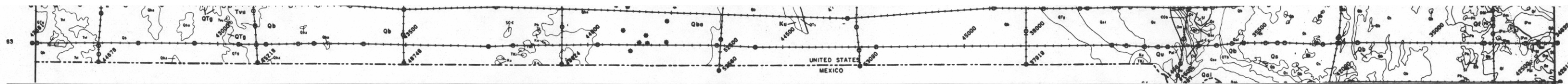


SCALE 1:500,000



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

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
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

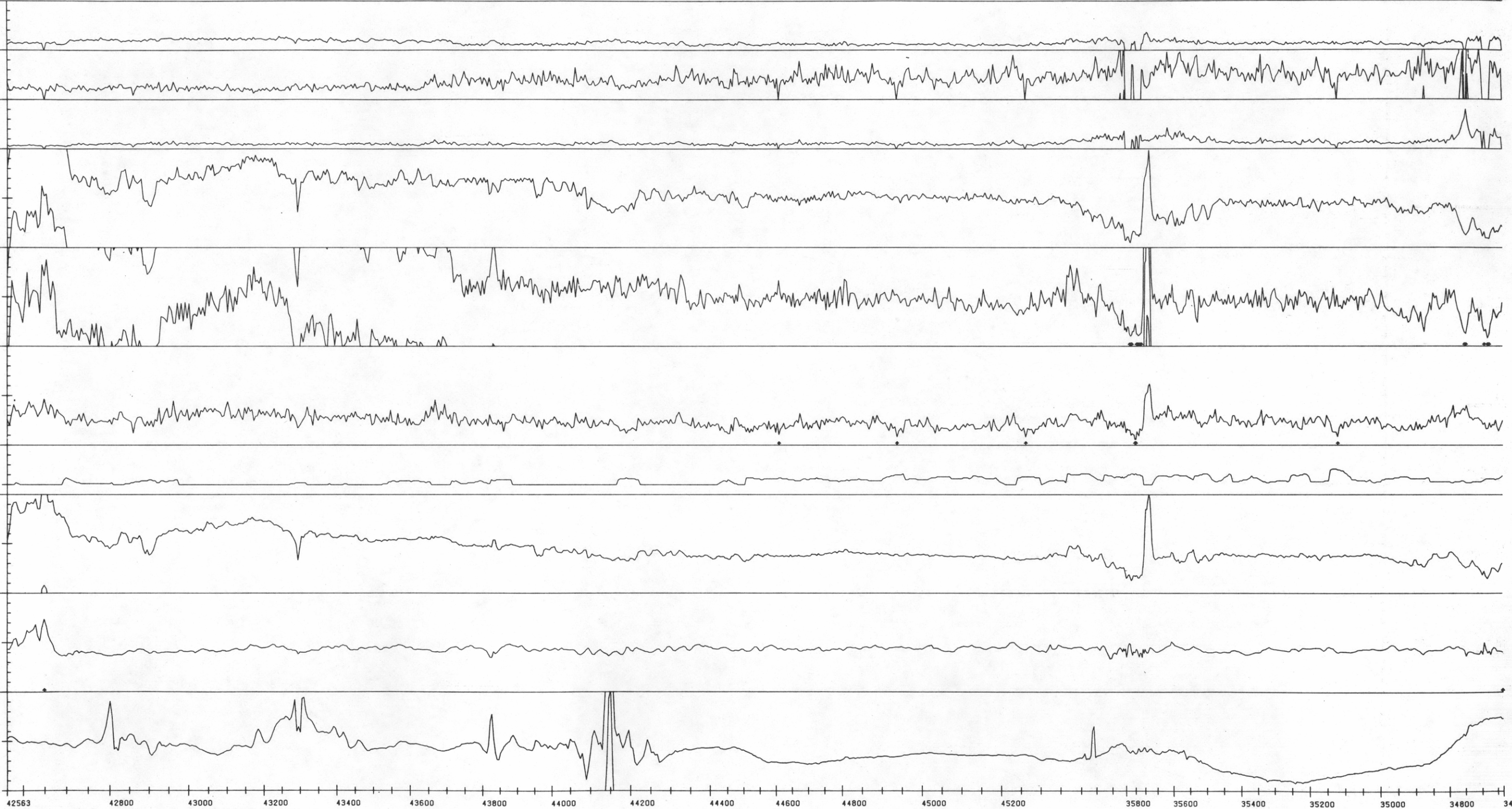
BI COR
1.0 PPM/DIV

TC
400.0C/S/DIV

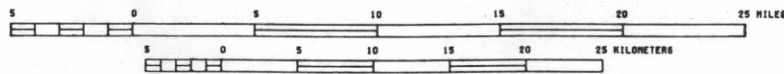
ALT
100 FT/DIV

MAG
100 GAUSS/DIV

P 63

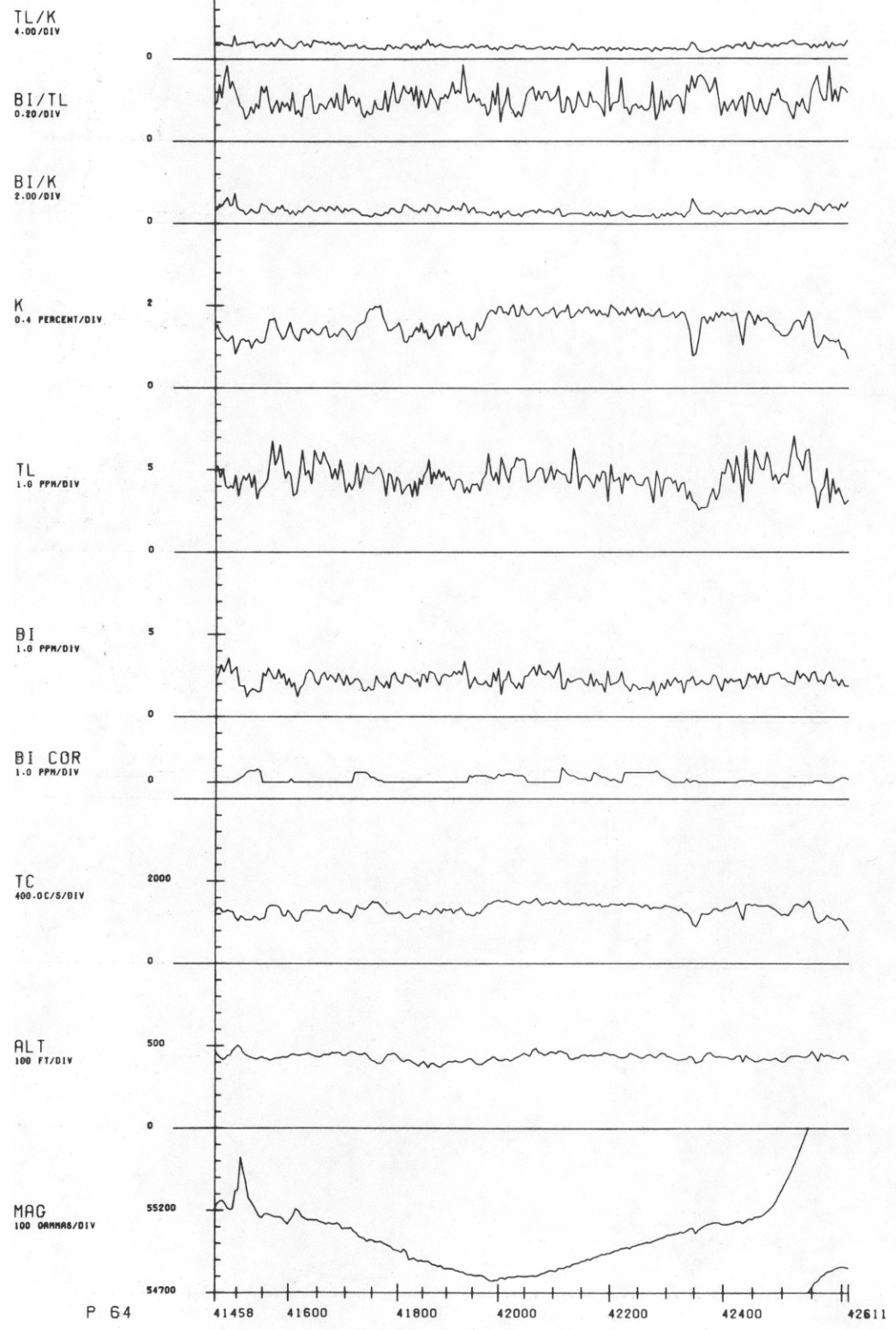
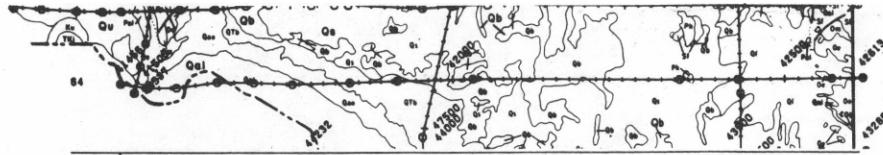


SCALE 1:500,000

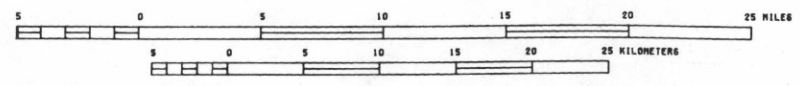


↑ FLAGGED SAMPLE VALUES OF
N.U.T. INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY

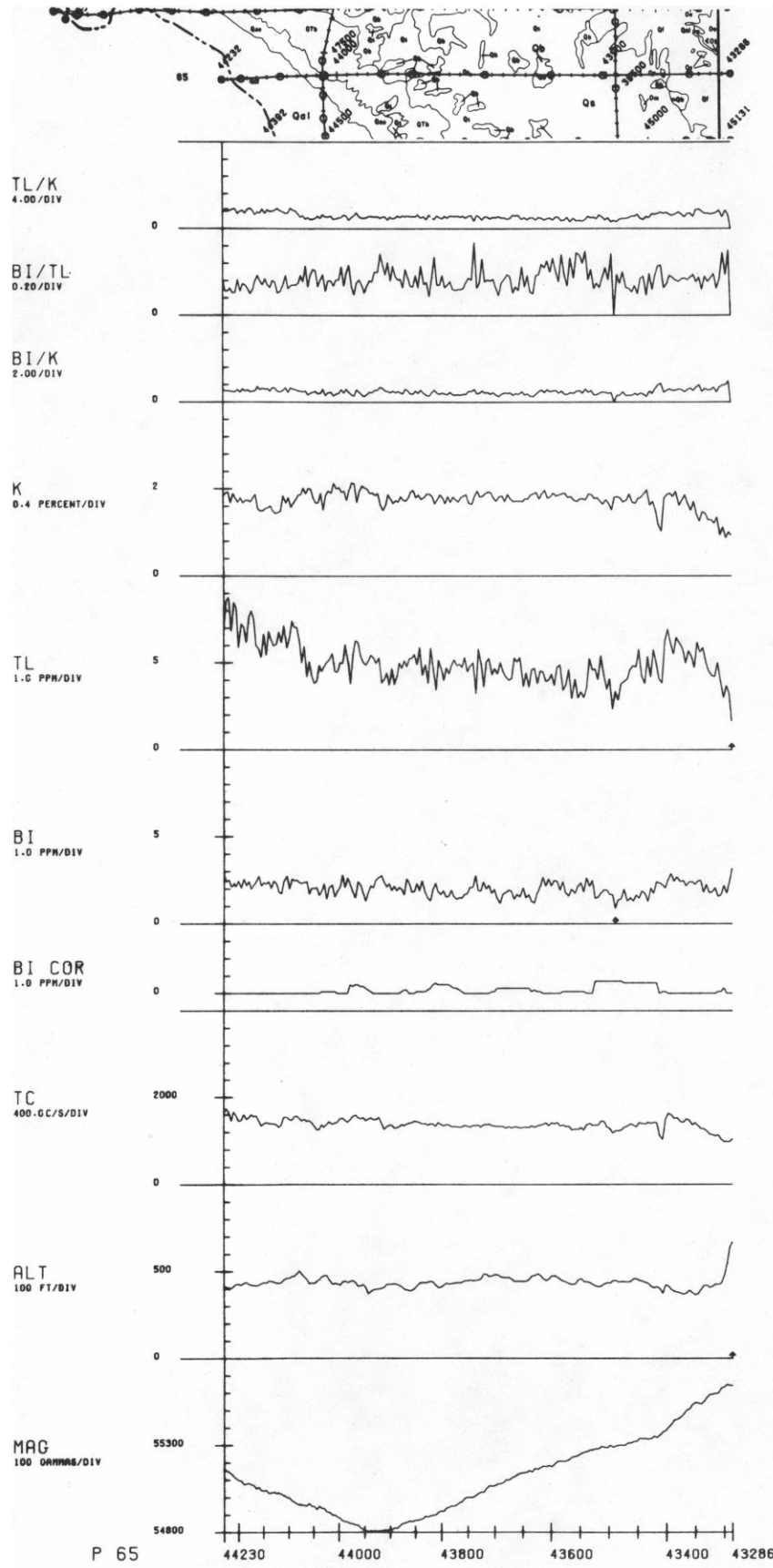


SCALE 1:500,000

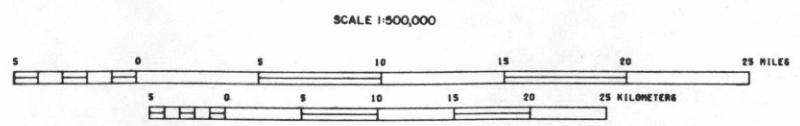


↑ FLOODED SAMPLE VALUES OF
 K.U.T INDICATES DATA FAILED
 STATISTICAL ADEQUACY TEST

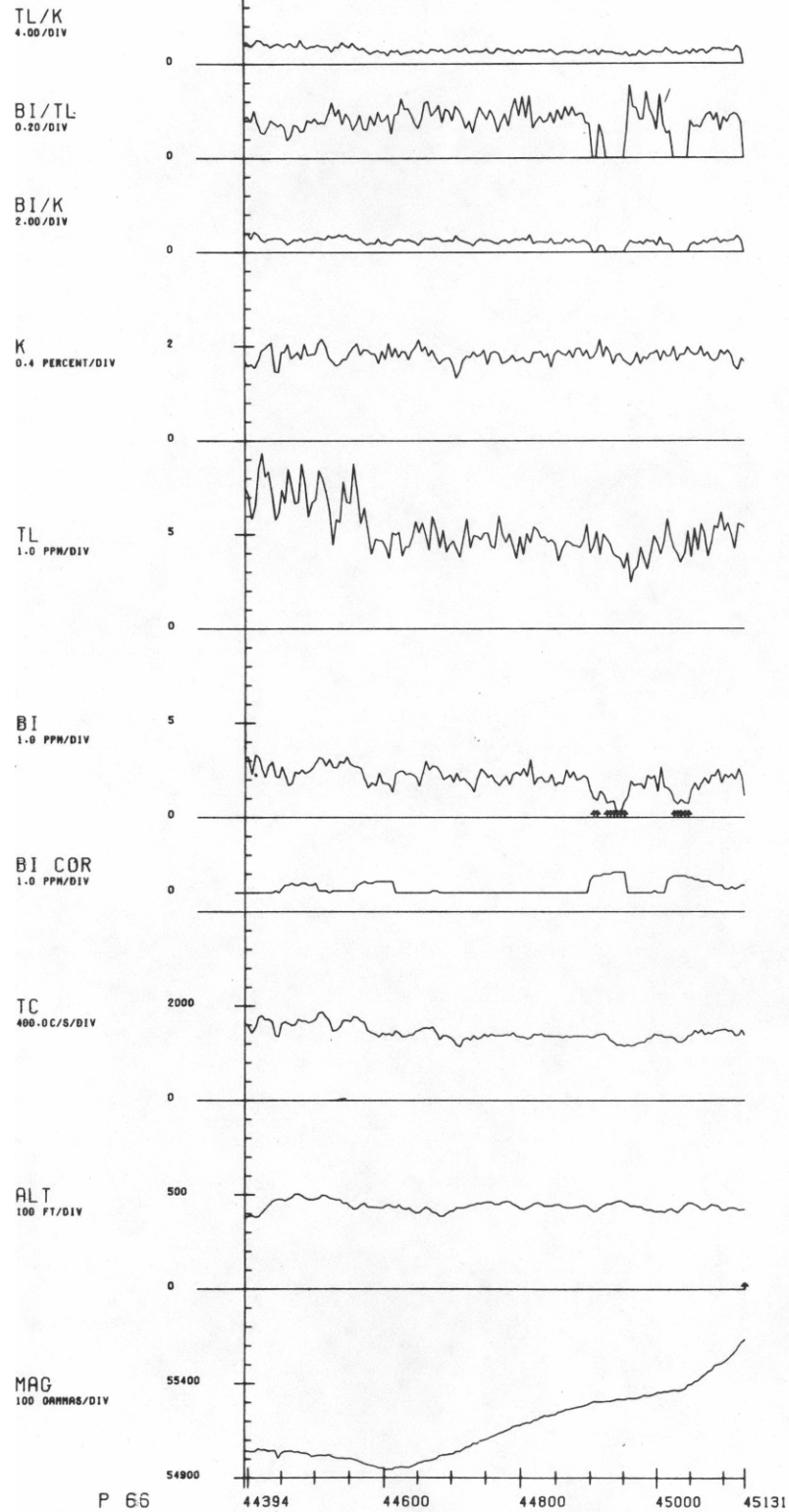
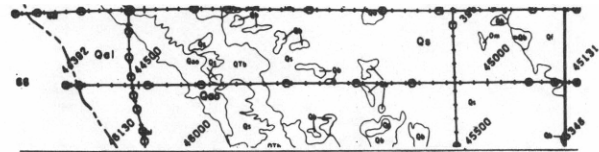
NURE AERIAL GAMMA-RAY AND MAGNETIC
 RECONNAISSANCE SURVEY
 TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
 1979
 BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
 PREPARED FOR
 DEPARTMENT OF ENERGY



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



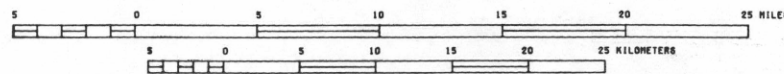
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



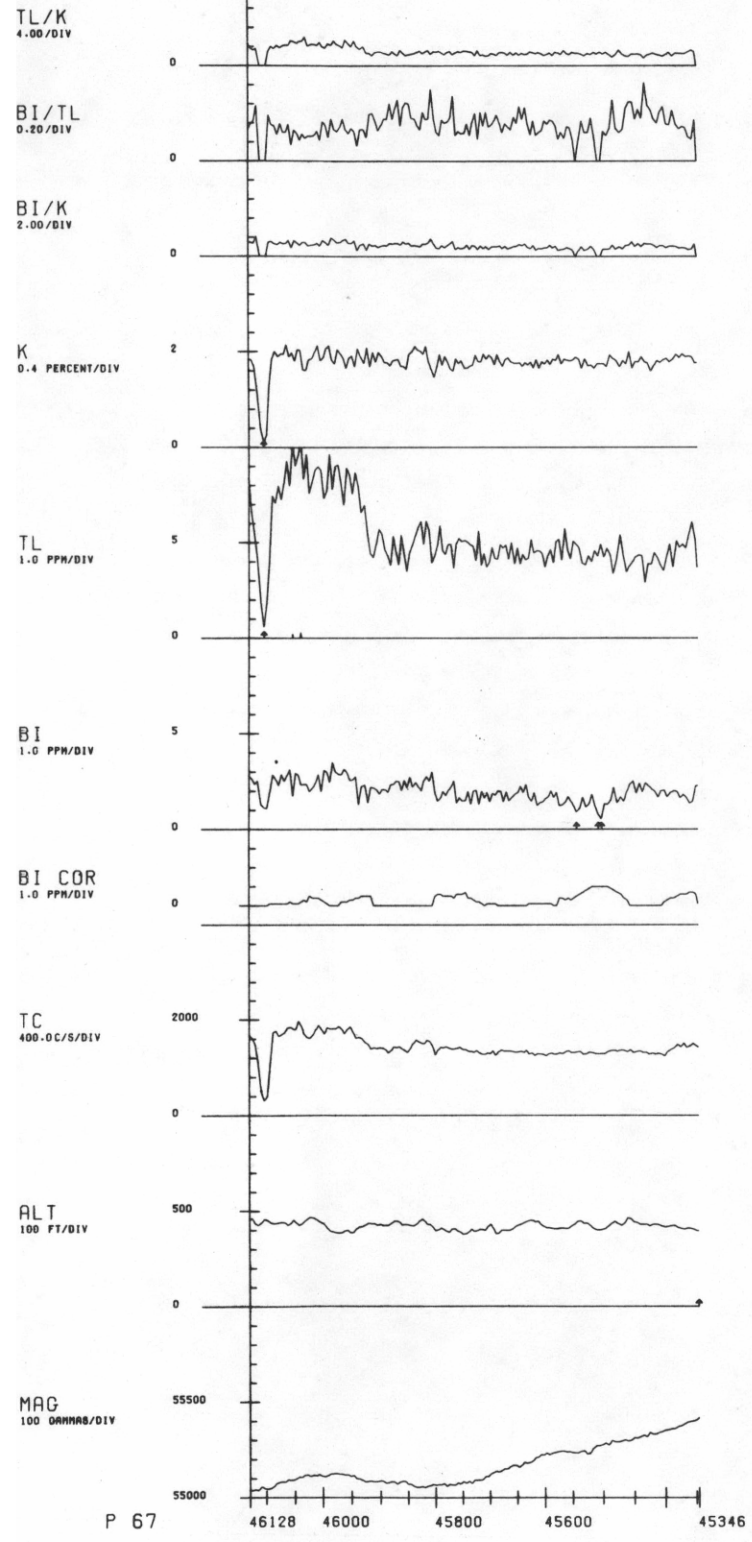
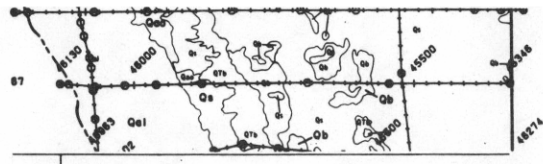
P 66

↑ FLOODED SAMPLE VALUES OF
K.V.T INDICATED DATA FAILED
STATISTICAL ADEQUACY TEST

SCALE 1:500,000



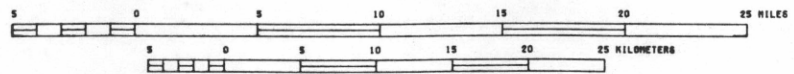
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING OLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



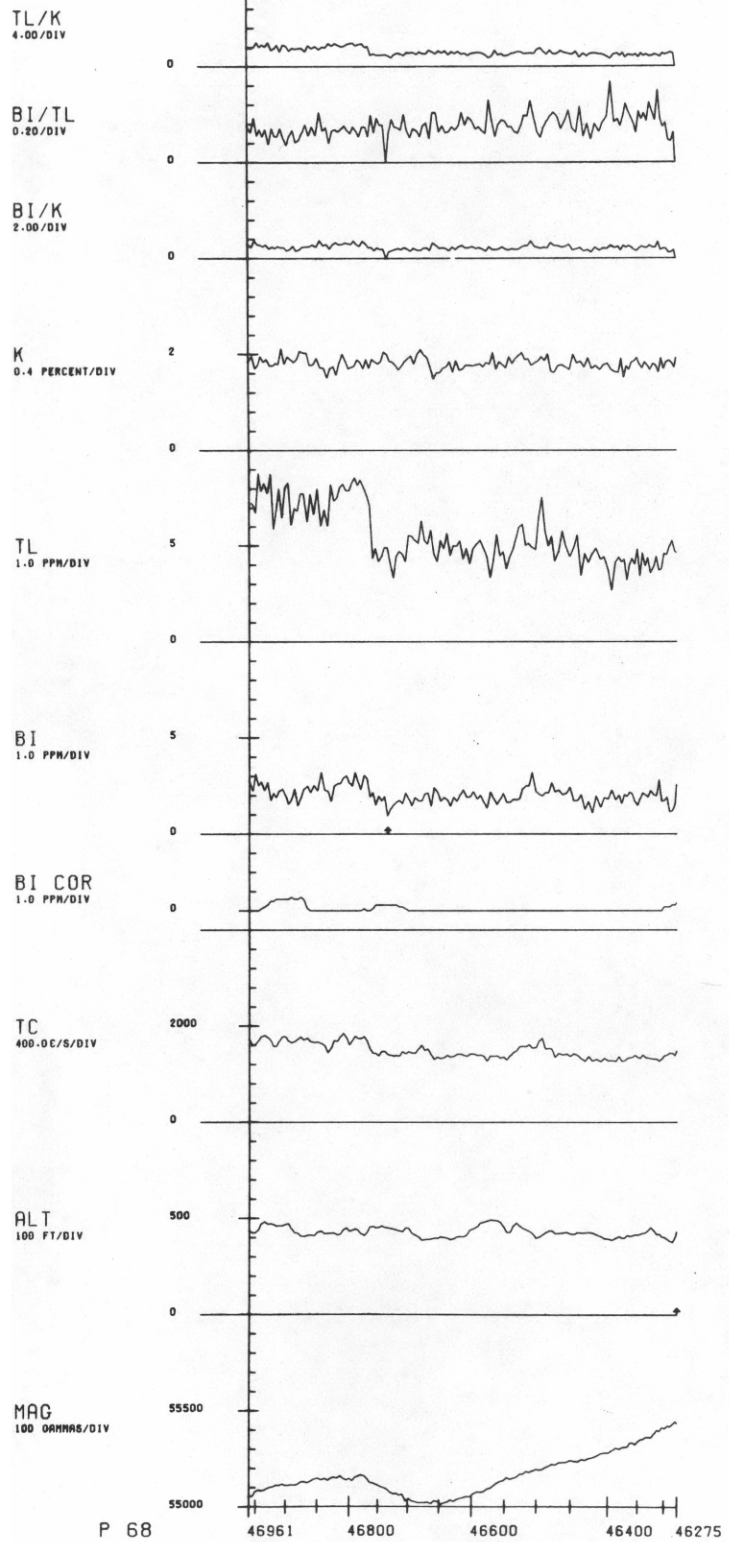
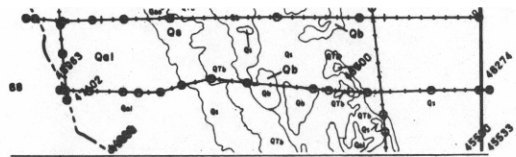
P 67

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

SCALE 1:500,000

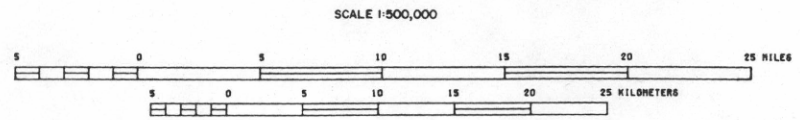


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY

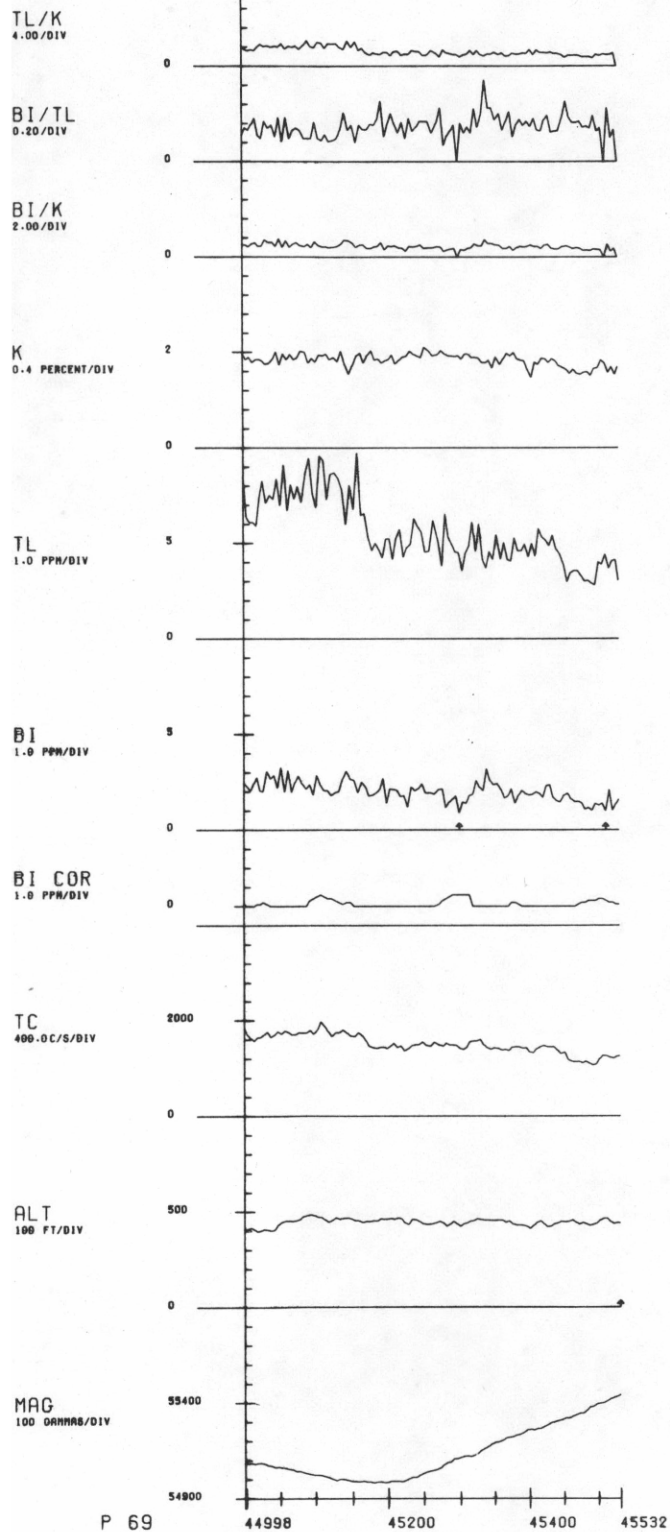
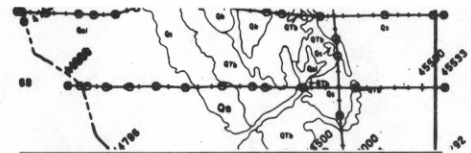


P 68

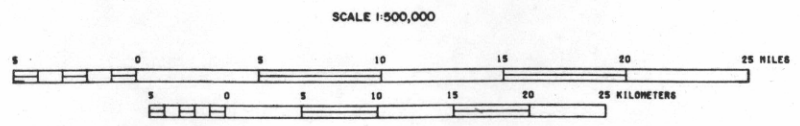
↑ FLAGGED SAMPLE VALUES OF
N.U.T INDICATED DATA FAILED
STATISTICAL ACCURACY TEST



NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



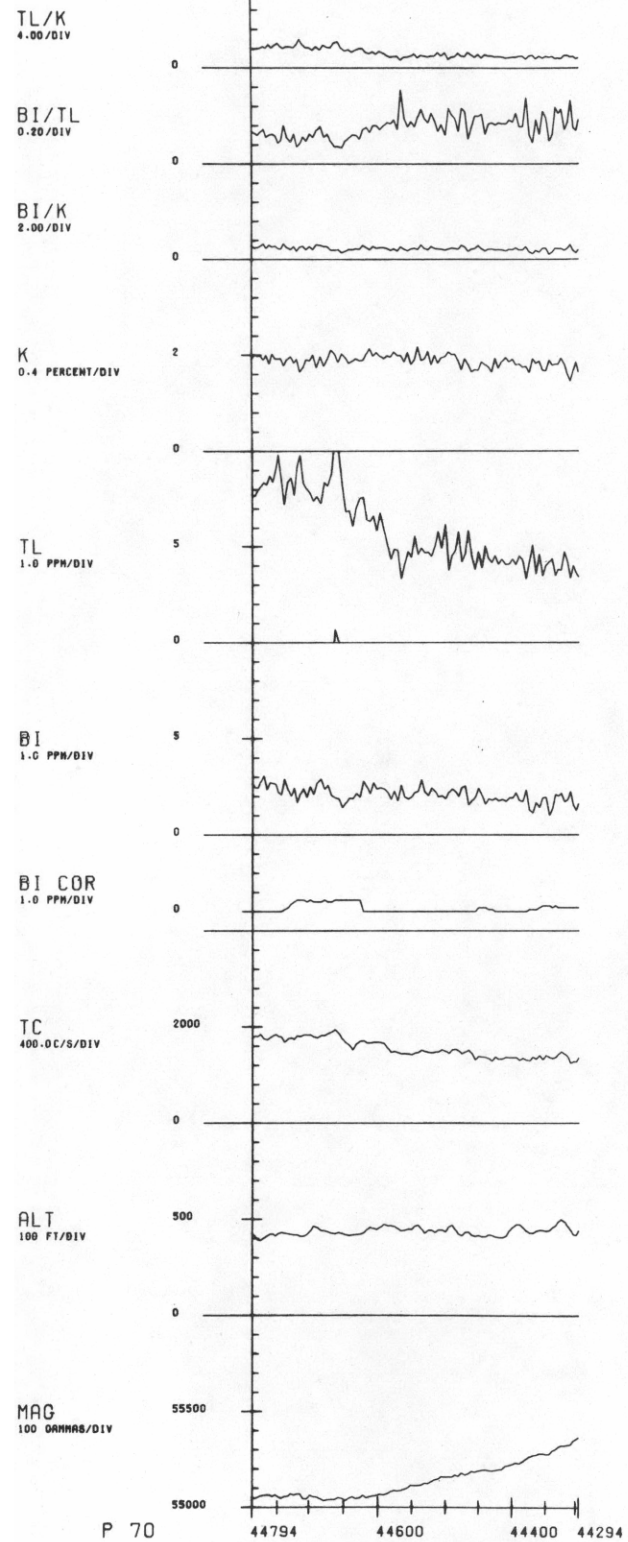
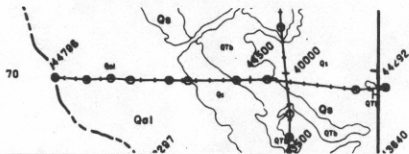
↑ FLAGGED SAMPLE VALUES OF
K.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

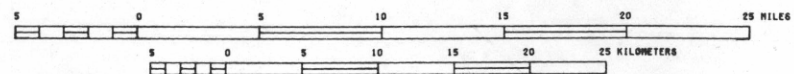
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY

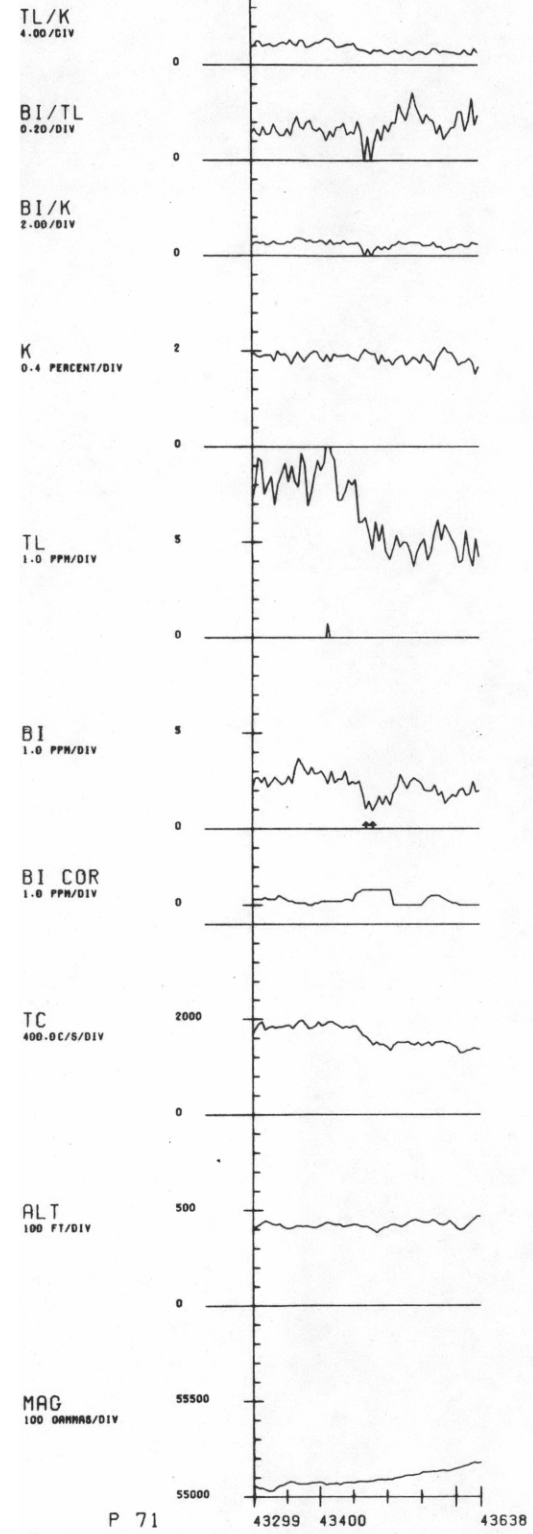
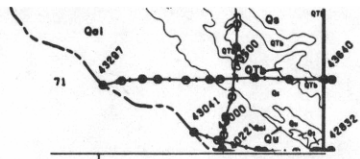


↑ FLAGGED SAMPLE VALUES BY
N.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

SCALE 1:500,000

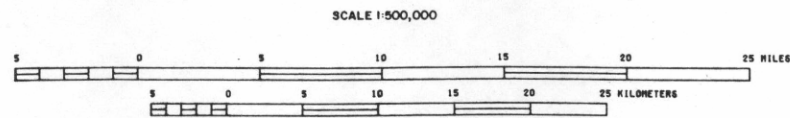


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



P 71

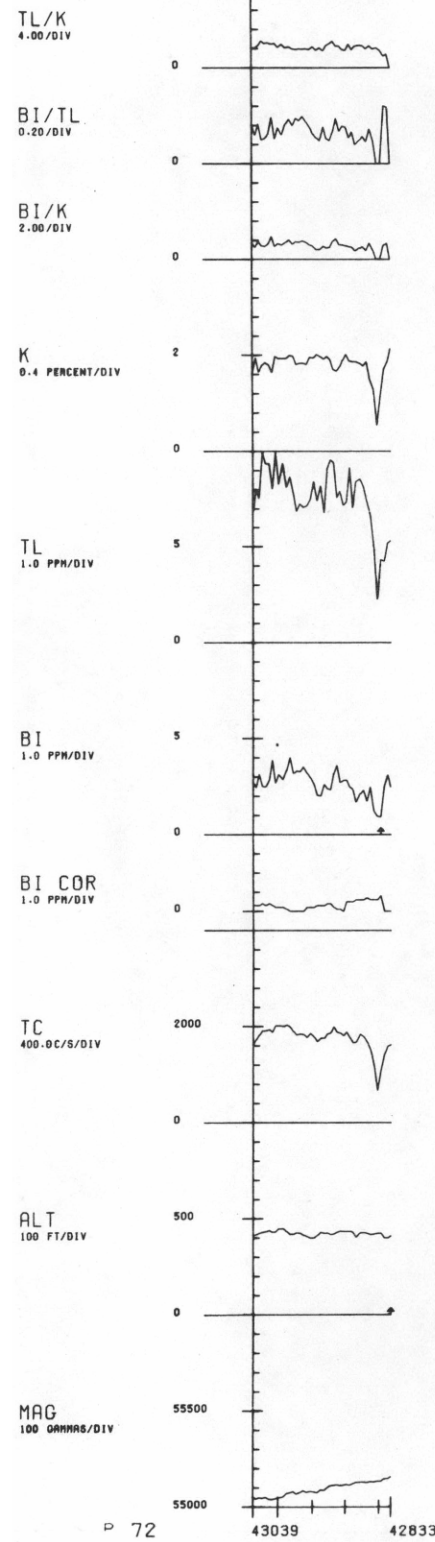
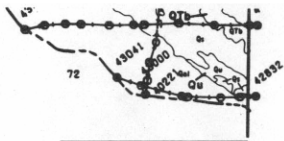
↑ FLOODED SAMPLE VALUES OF
K.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

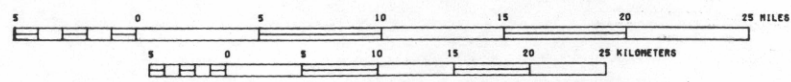
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

BY CARSON HELICOPTERS, INC. 32-M BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



↑ FLOODED SAMPLE VALUES OF
K, U, T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

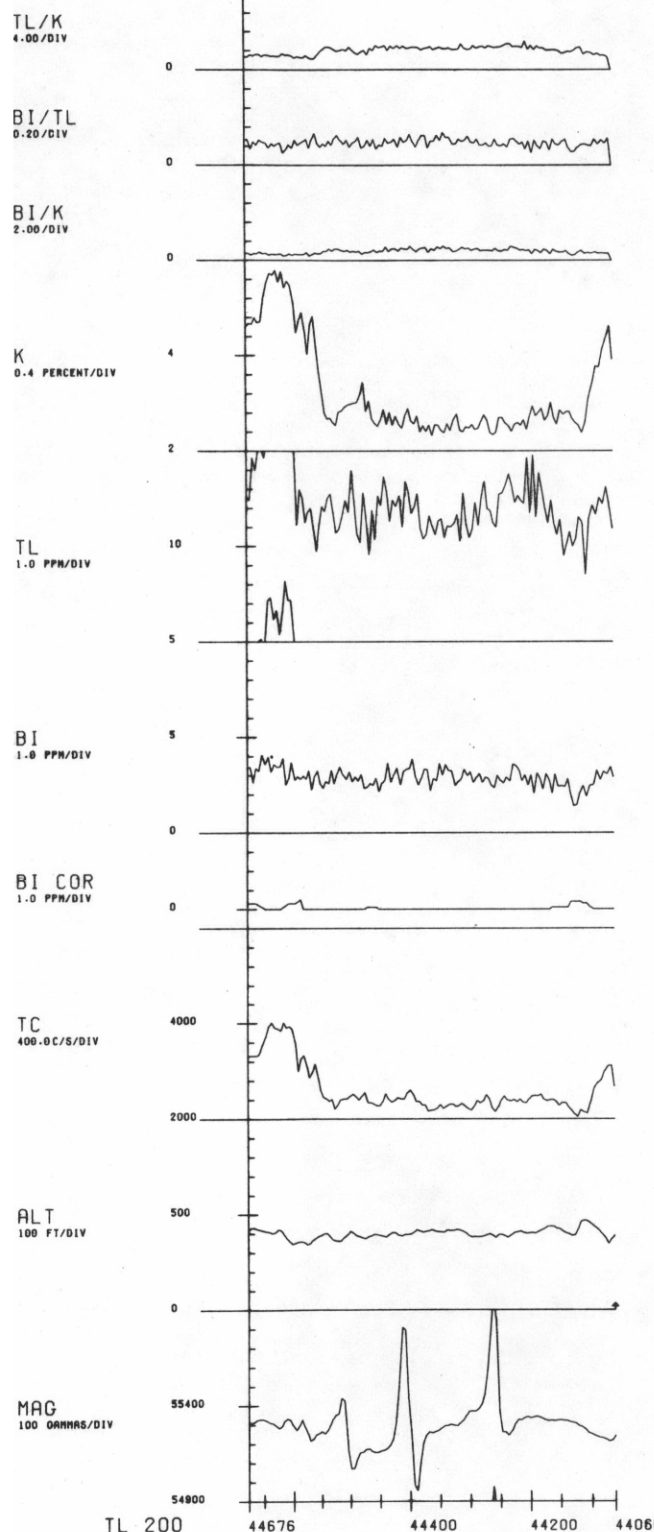
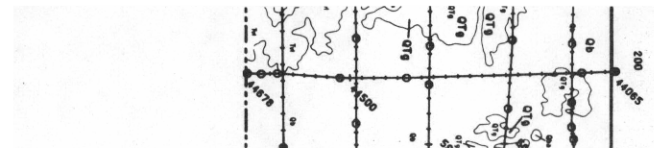
SCALE 1:500,000



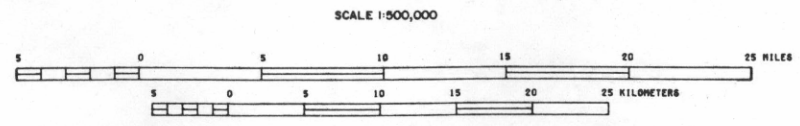
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

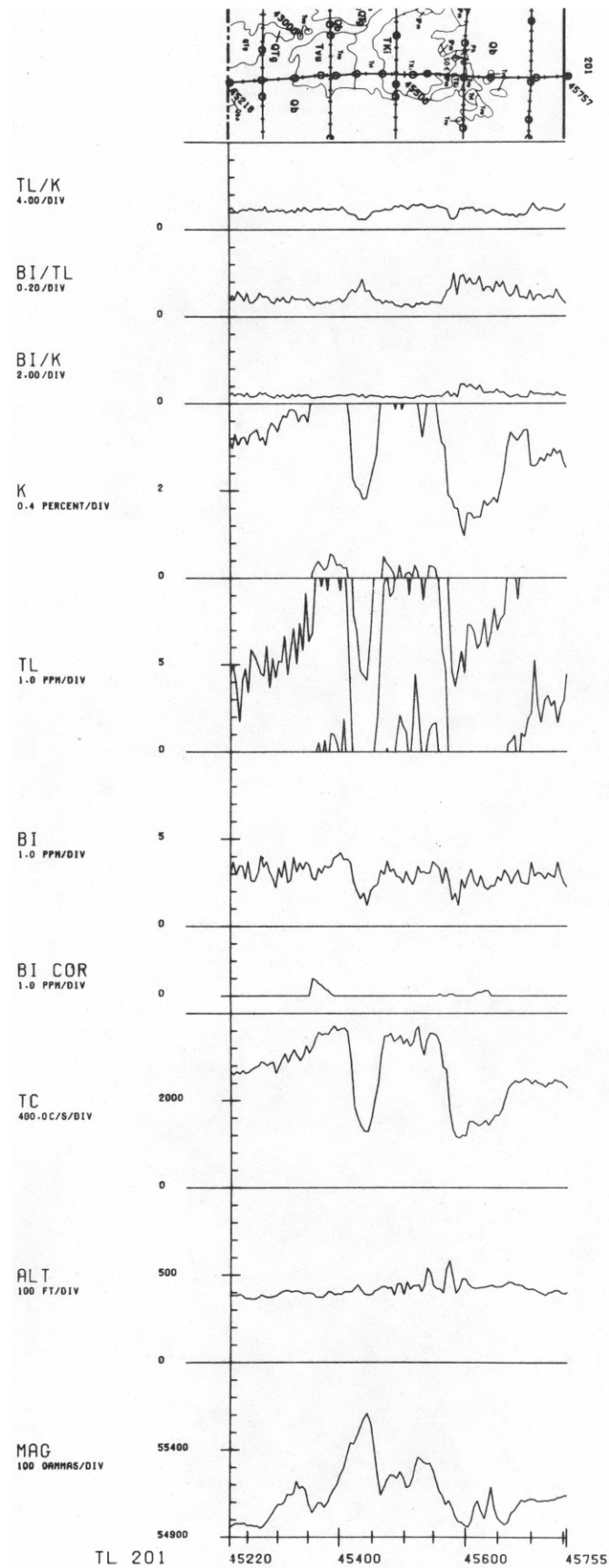
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



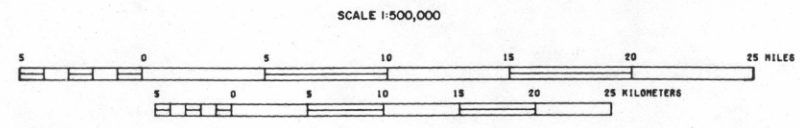
↑ FLOODED SAMPLE VALUES OF
N.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



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

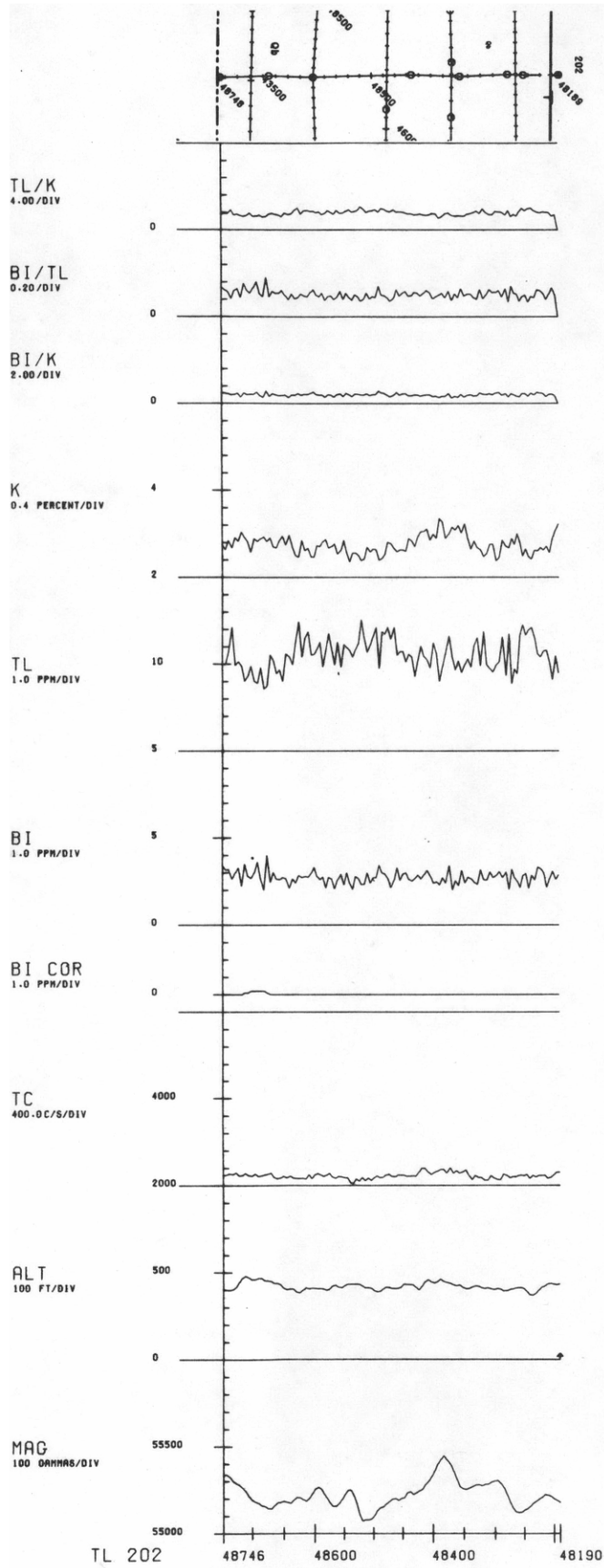


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

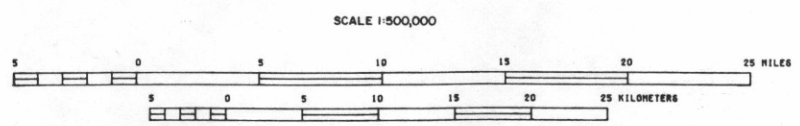
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



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

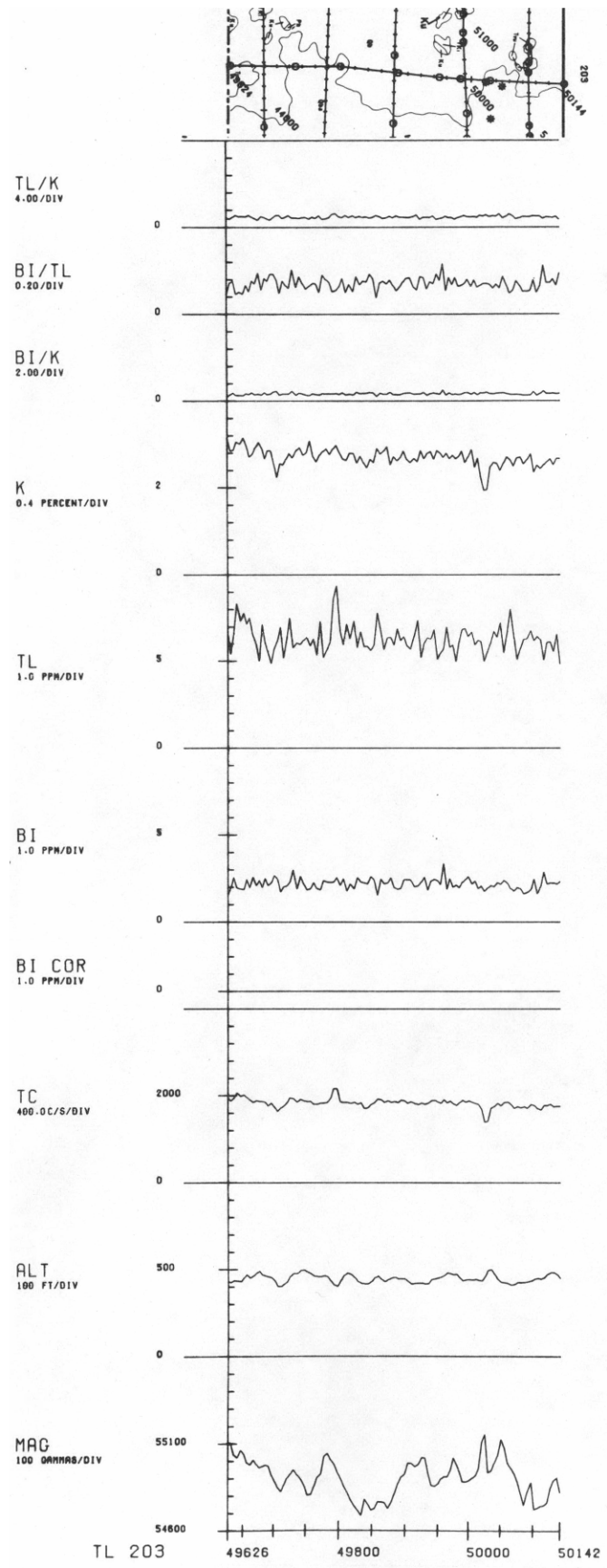


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

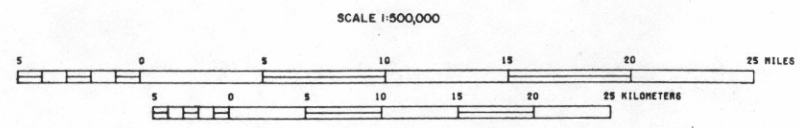
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



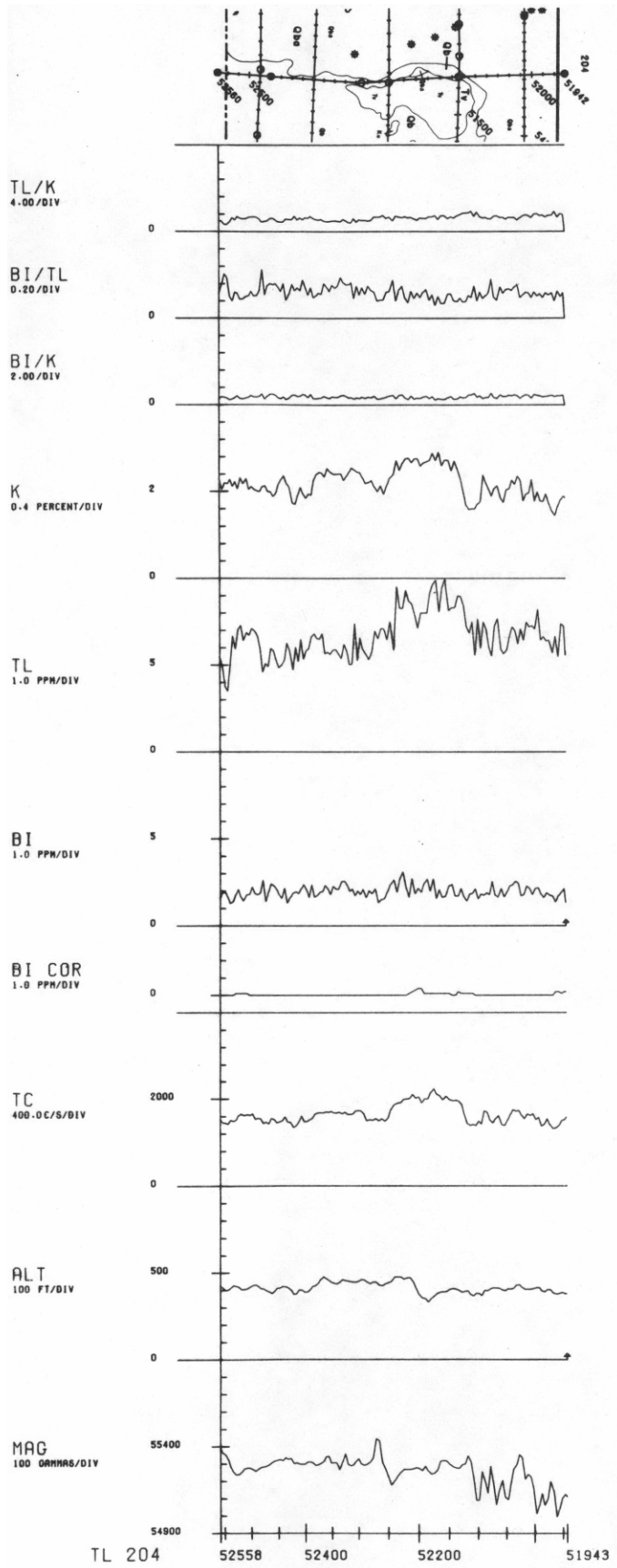
↑ FLAGGED SAMPLE VALUES OF
K.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



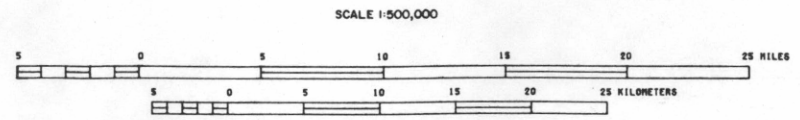
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



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

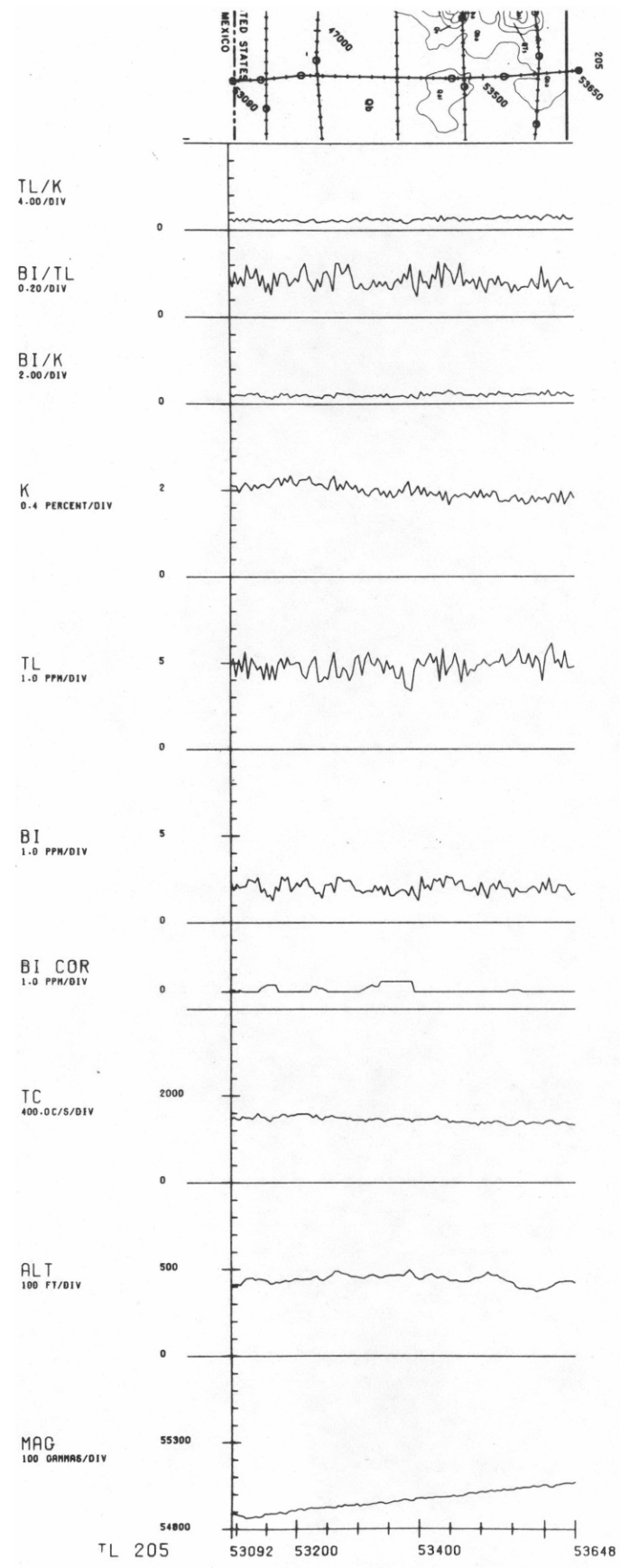


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

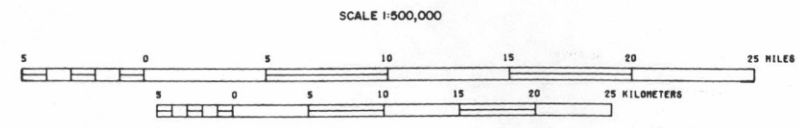
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

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

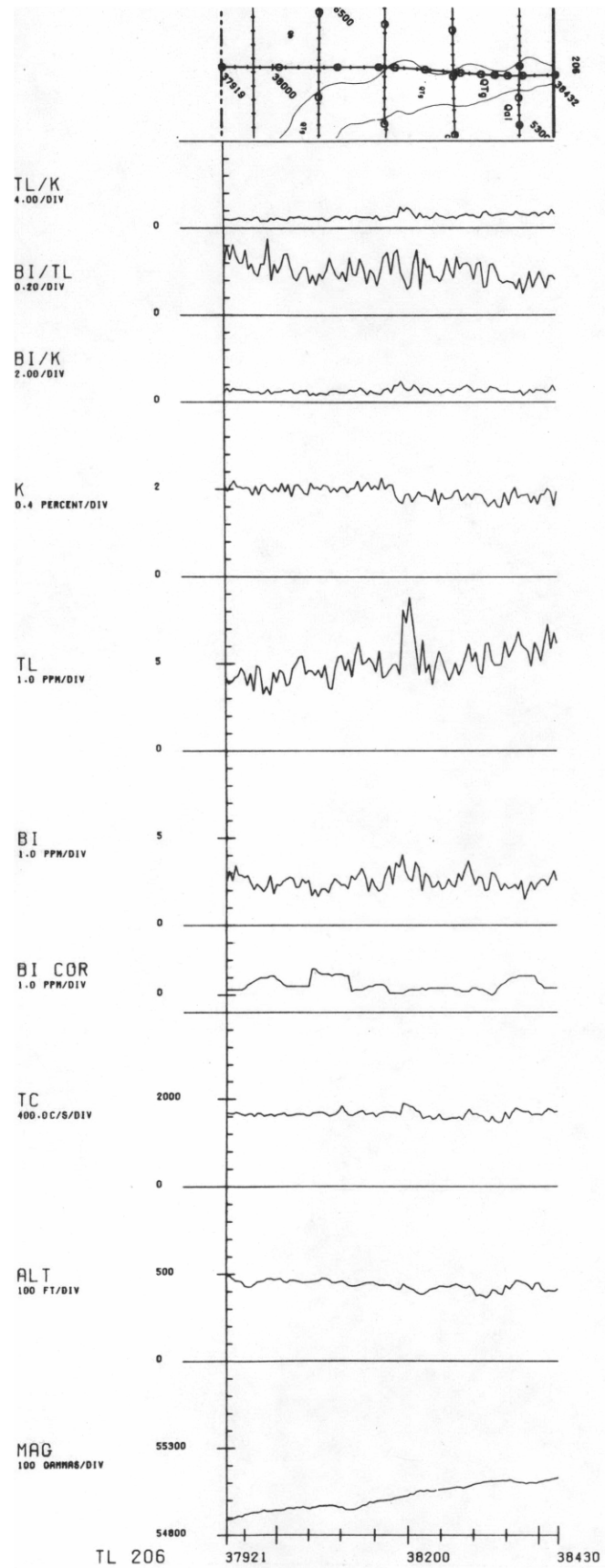
PREPARED FOR
DEPARTMENT OF ENERGY



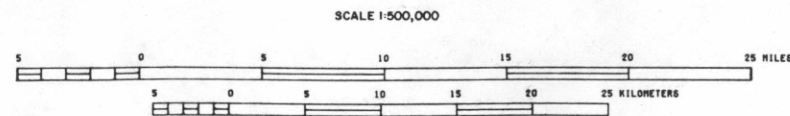
↑ FLAGGED SAMPLE VALUES OF
 N.U.T INDICATES DATA FAILED
 STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA-RAY AND MAGNETIC
 RECONNAISSANCE SURVEY
 TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
 1979
 BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
 PREPARED FOR
 DEPARTMENT OF ENERGY



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

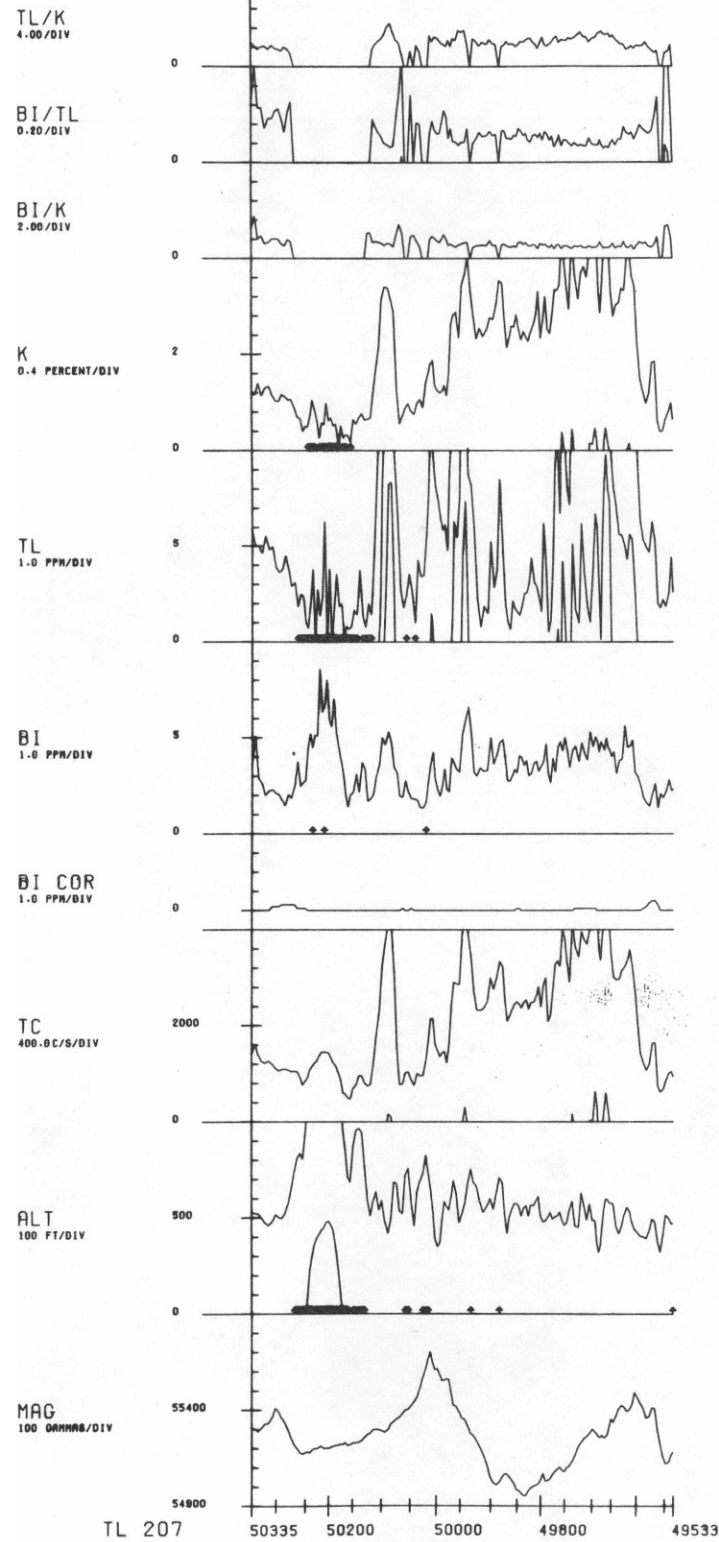
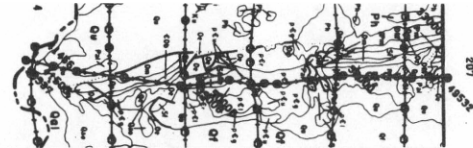


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

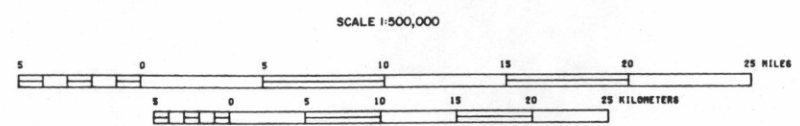
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



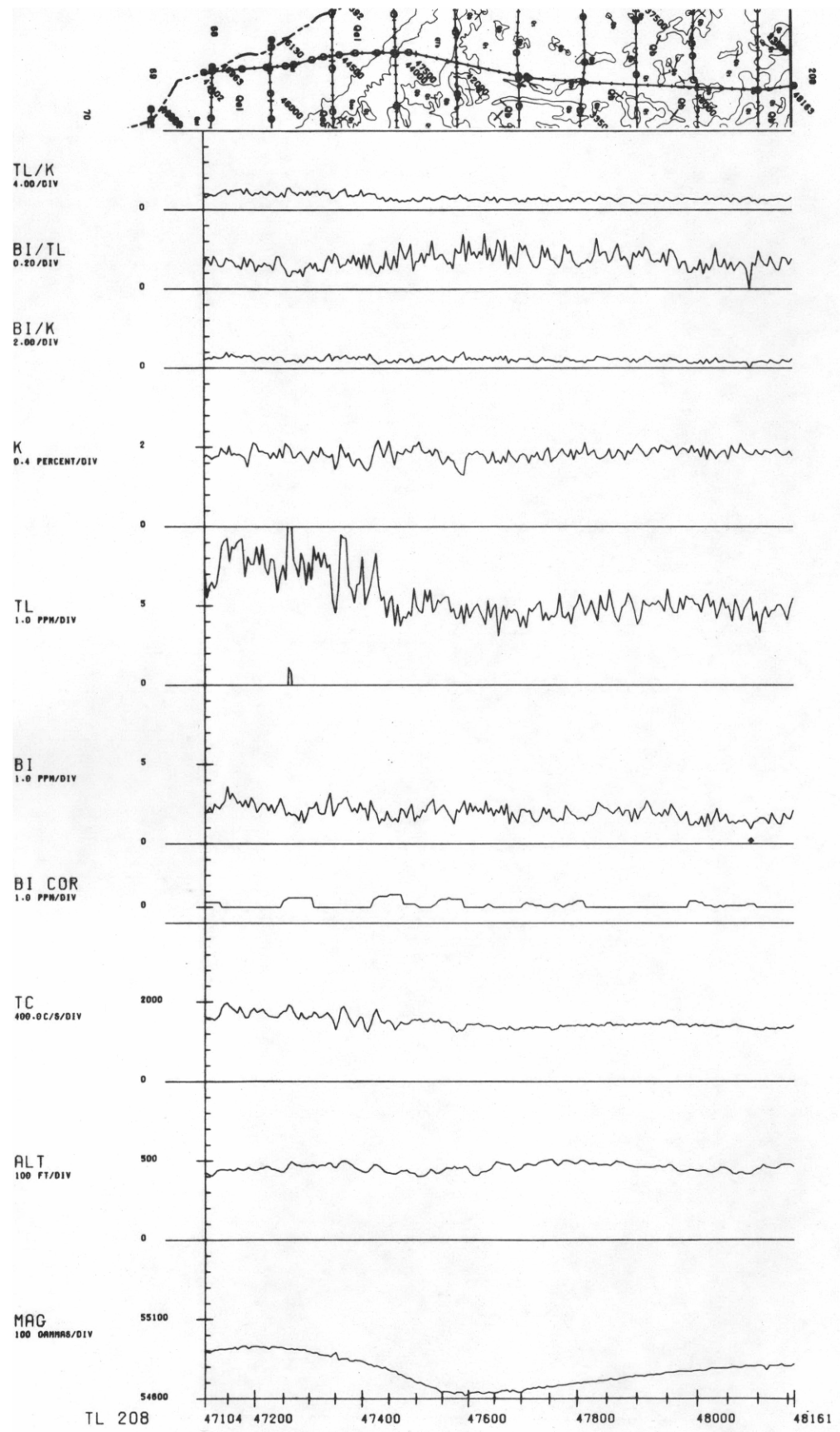
↑ FLOODED SAMPLE VALUES OF
N.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST



NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

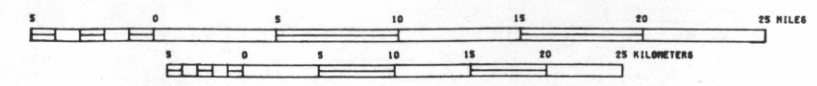
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



TL 208

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

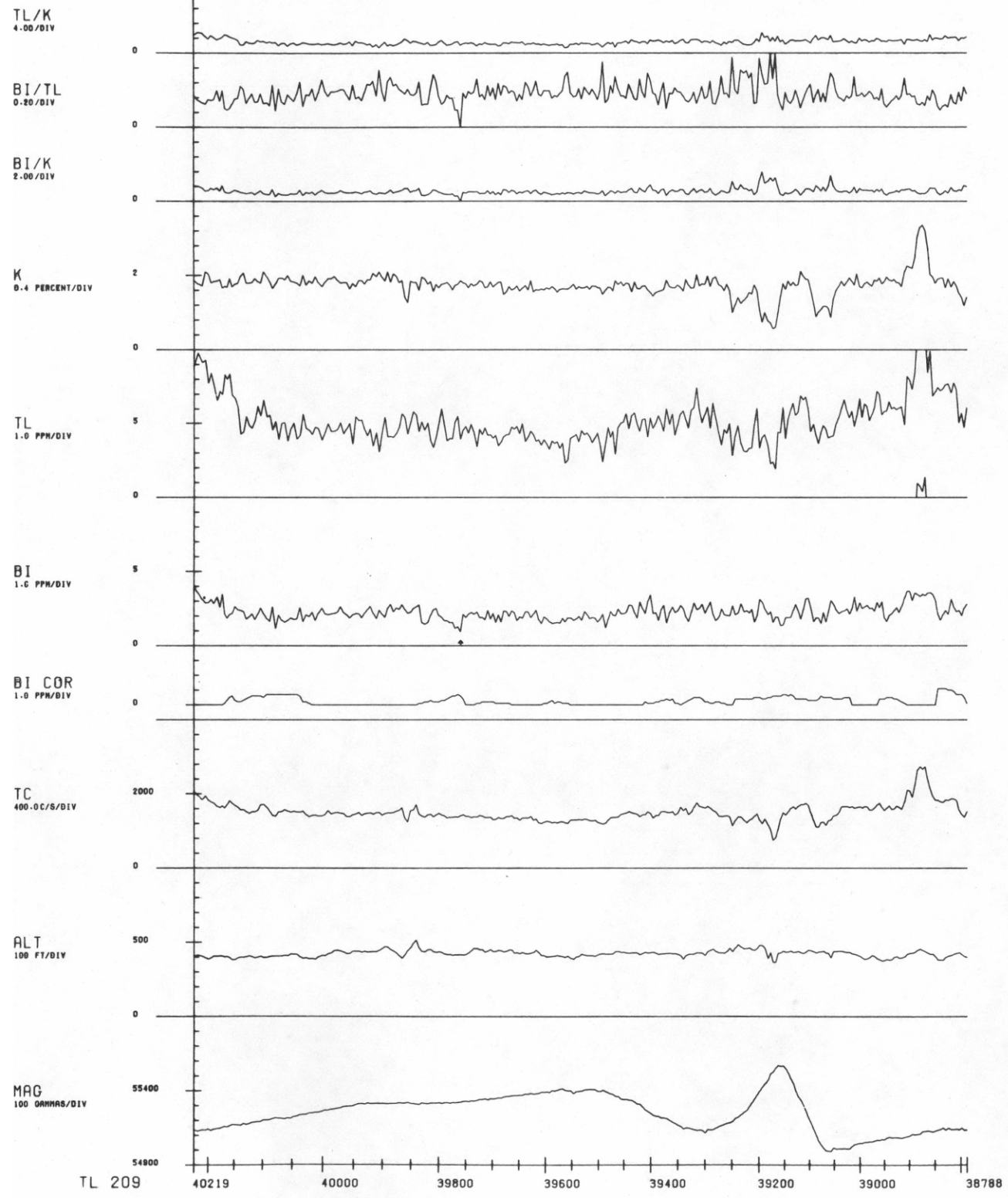
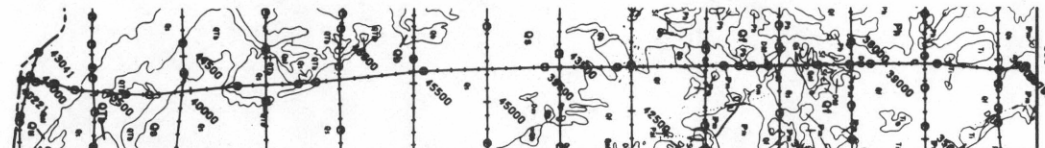
SCALE 1:500,000



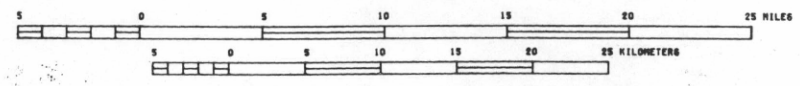
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



SCALE 1:500,000

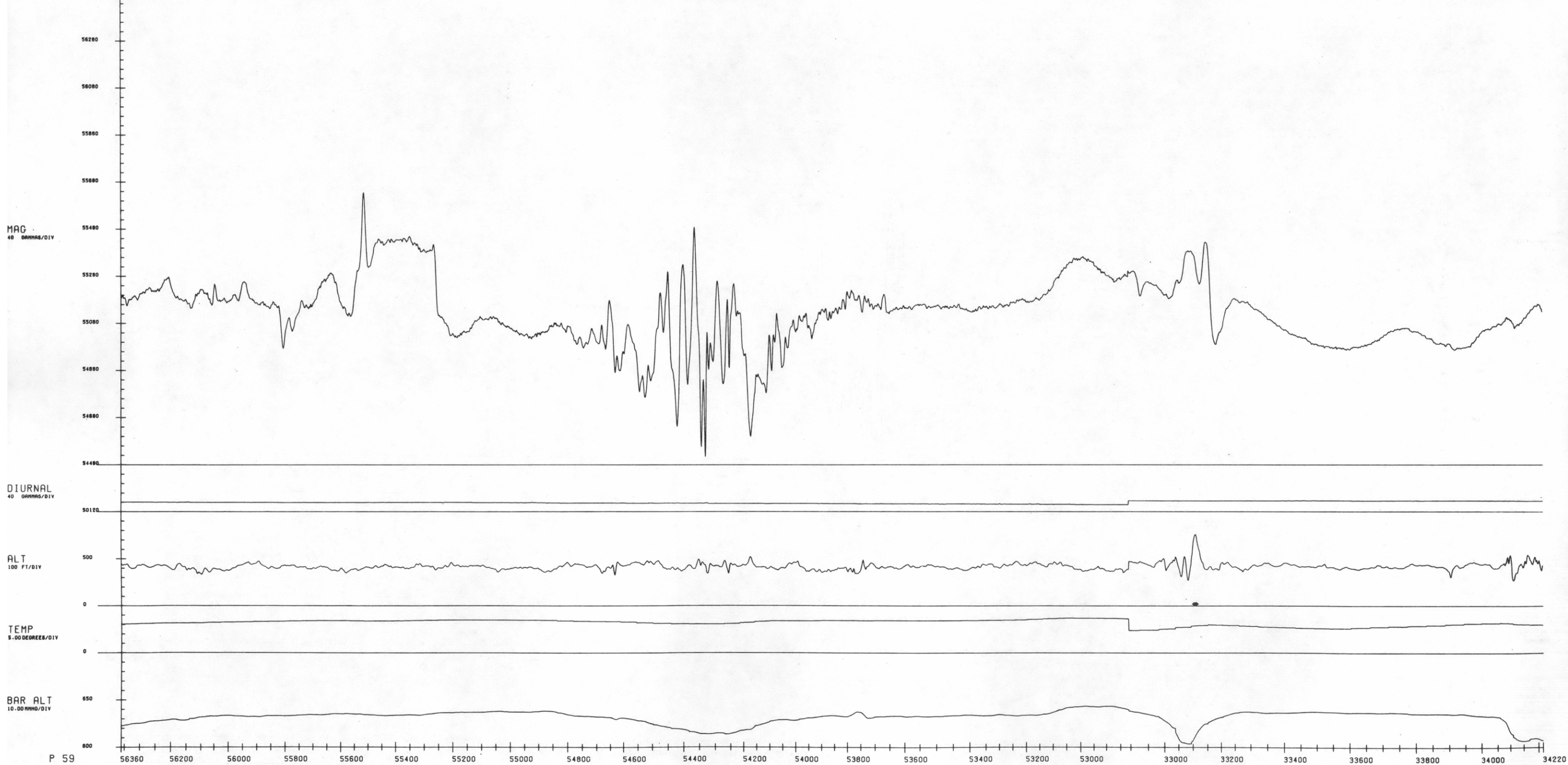
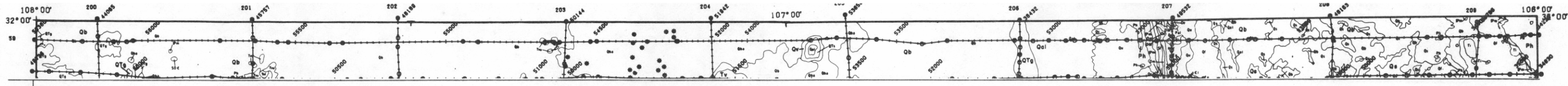


↑ FLOODED SAMPLE VALUES OF
N.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

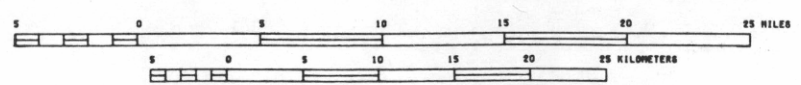
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY



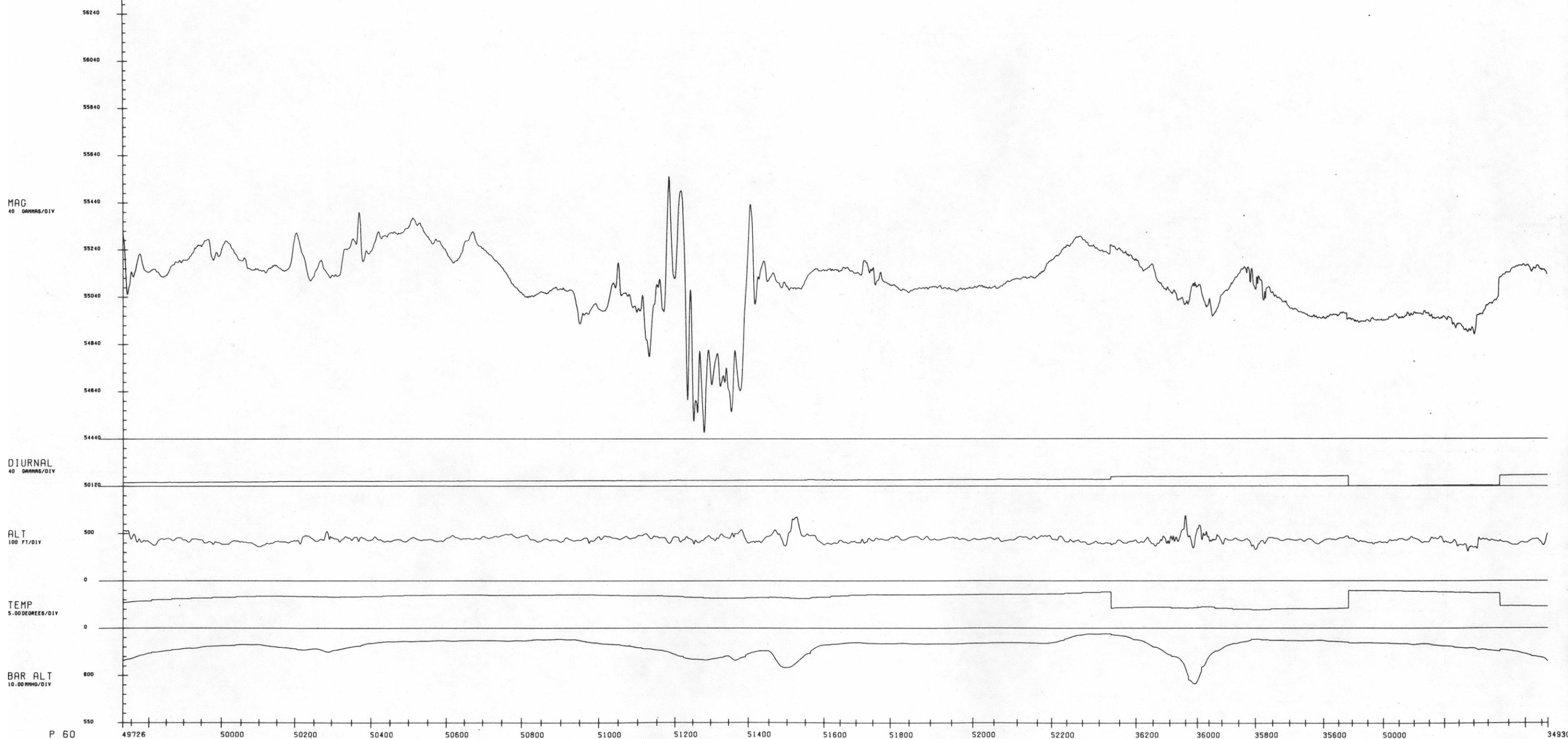
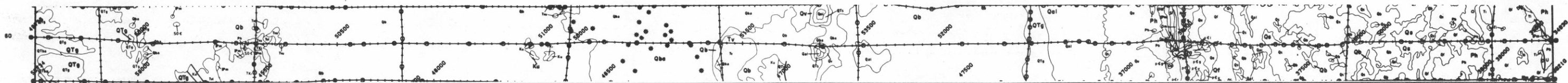
P 59

SCALE 1:500,000

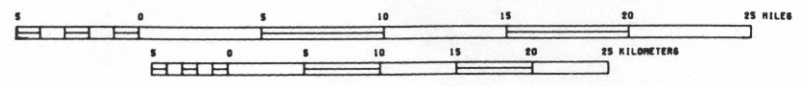


↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 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



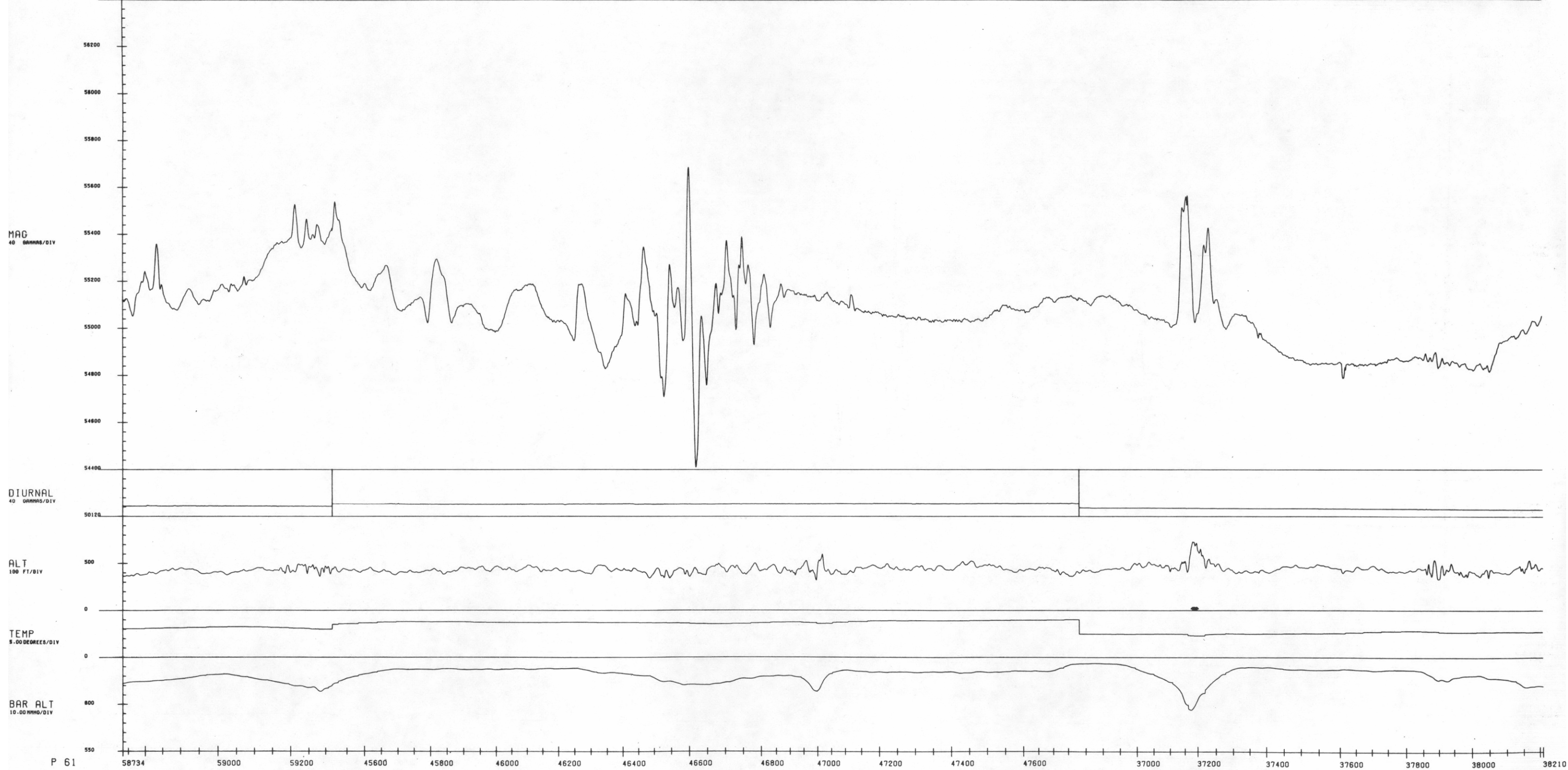
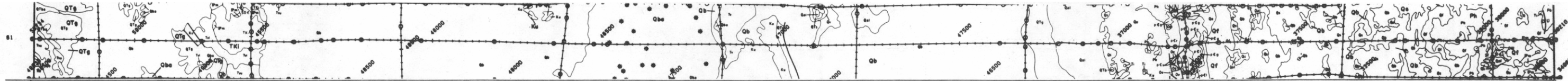
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

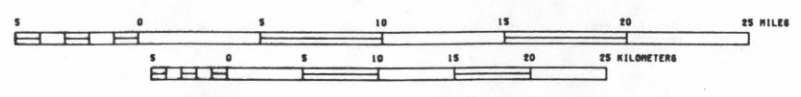
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY

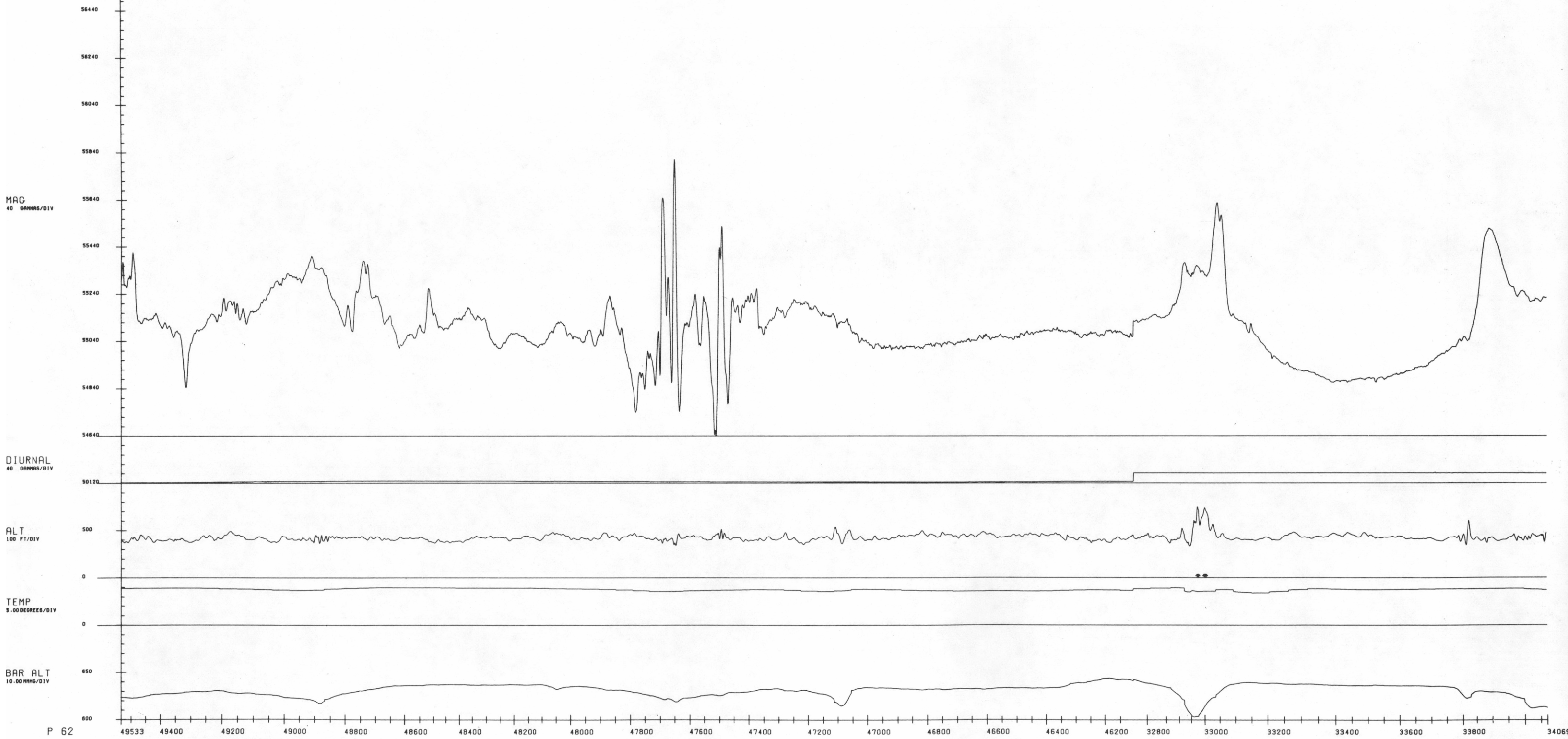
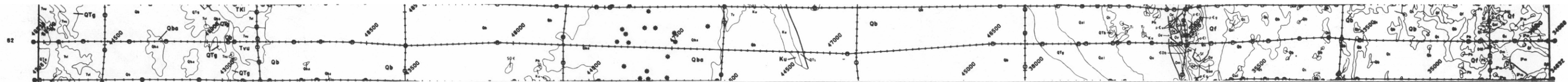


SCALE 1:500,000



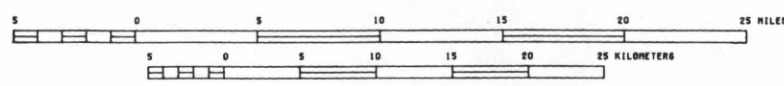
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
 TEXAS-NEW MEXICO-EL PASO NH 13-1 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



P 62

SCALE 1:500,000



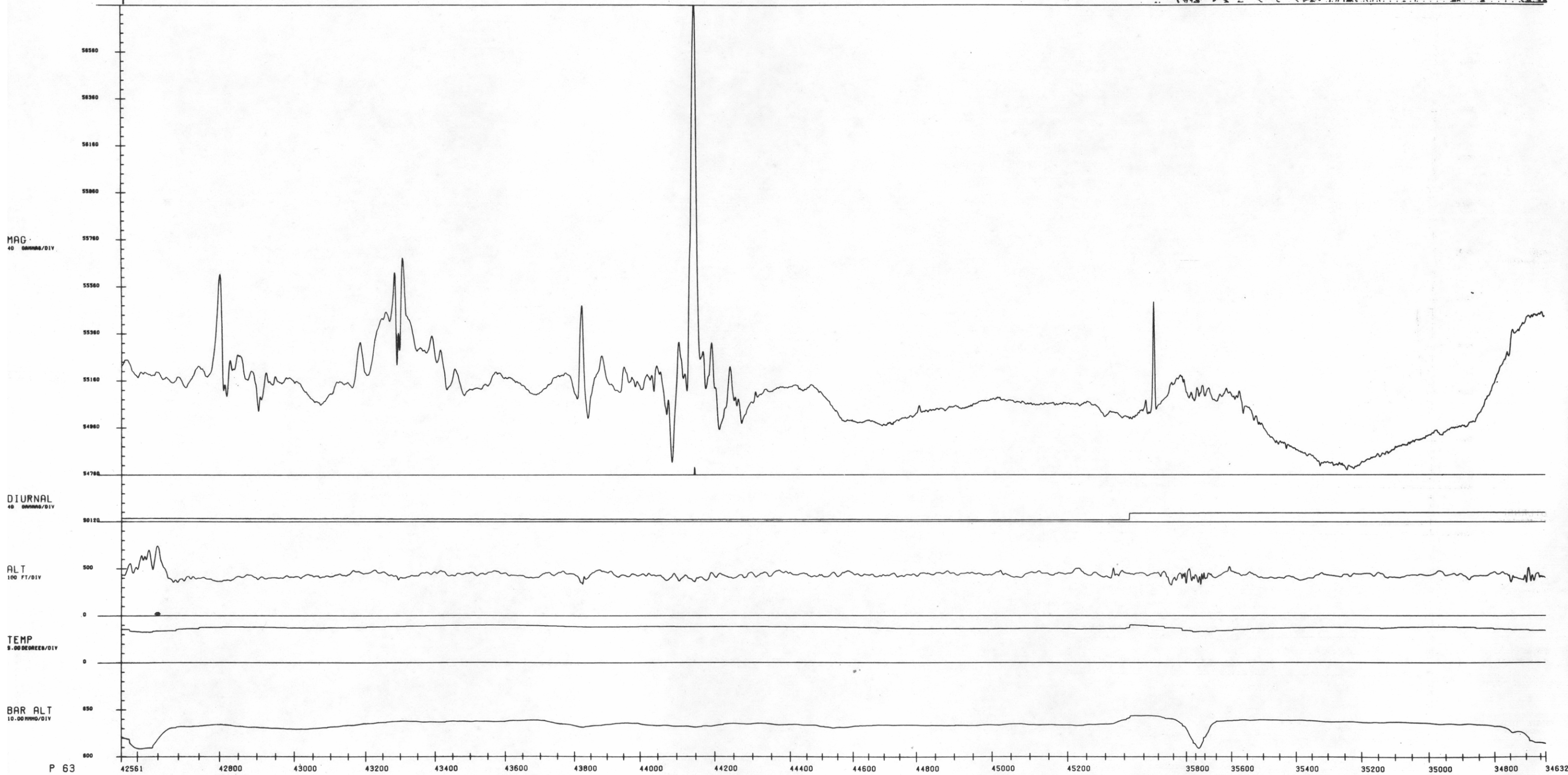
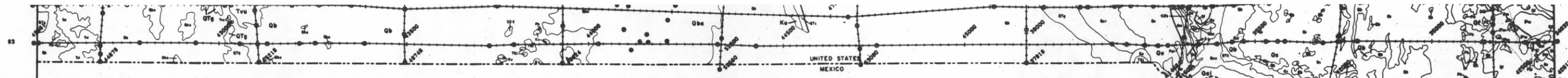
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

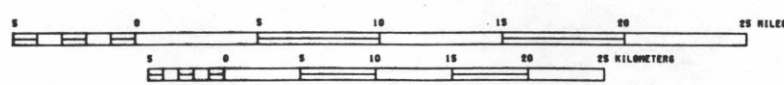
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944

PREPARED FOR
DEPARTMENT OF ENERGY



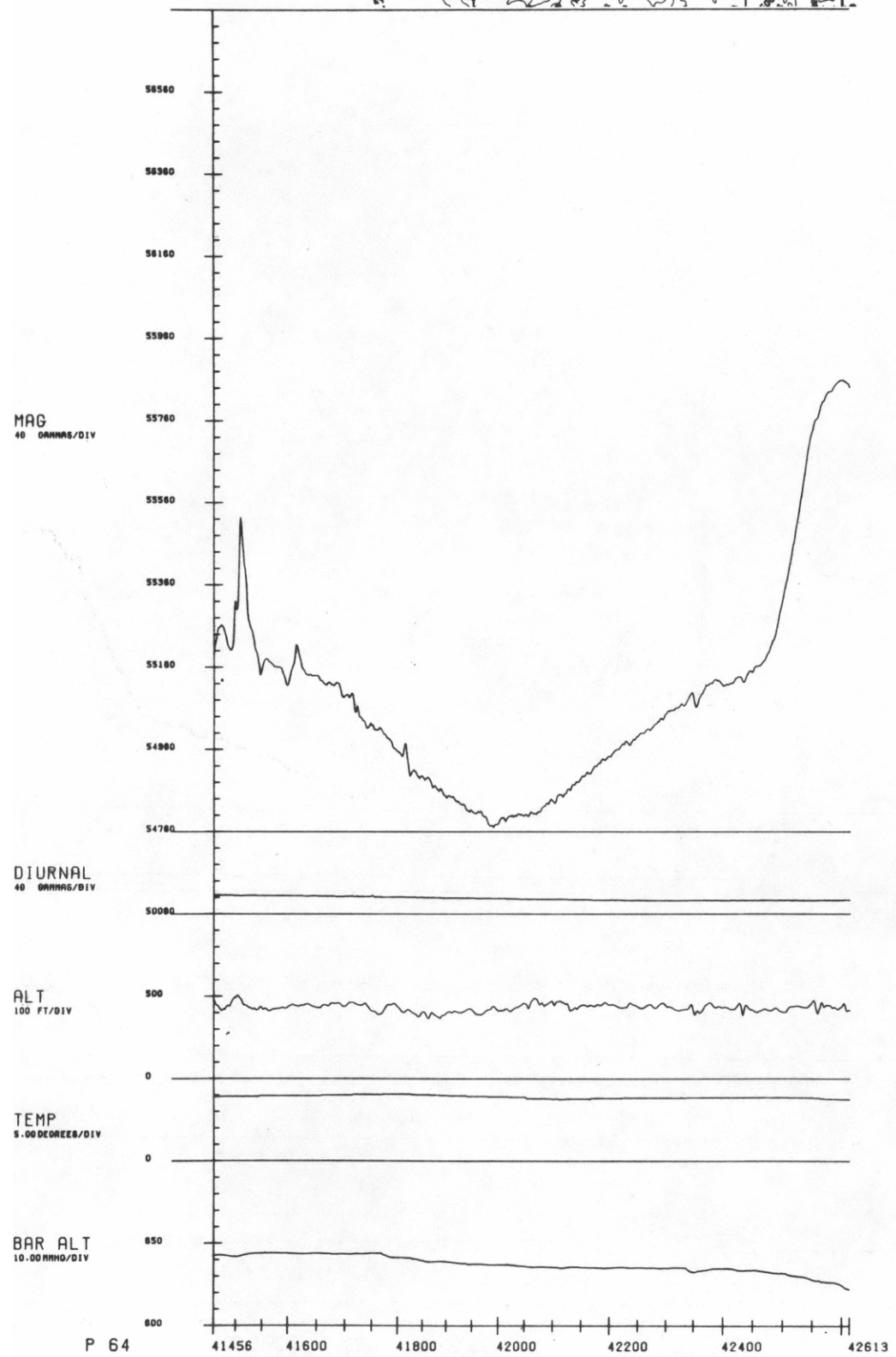
P 63

SCALE 1:900,000



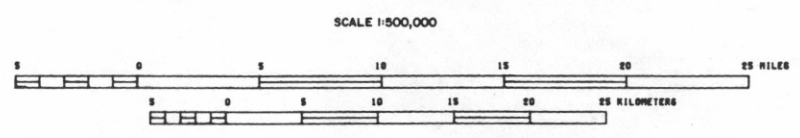
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
TEXAS-NEW MEXICO-EL PASO NH 13-1 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

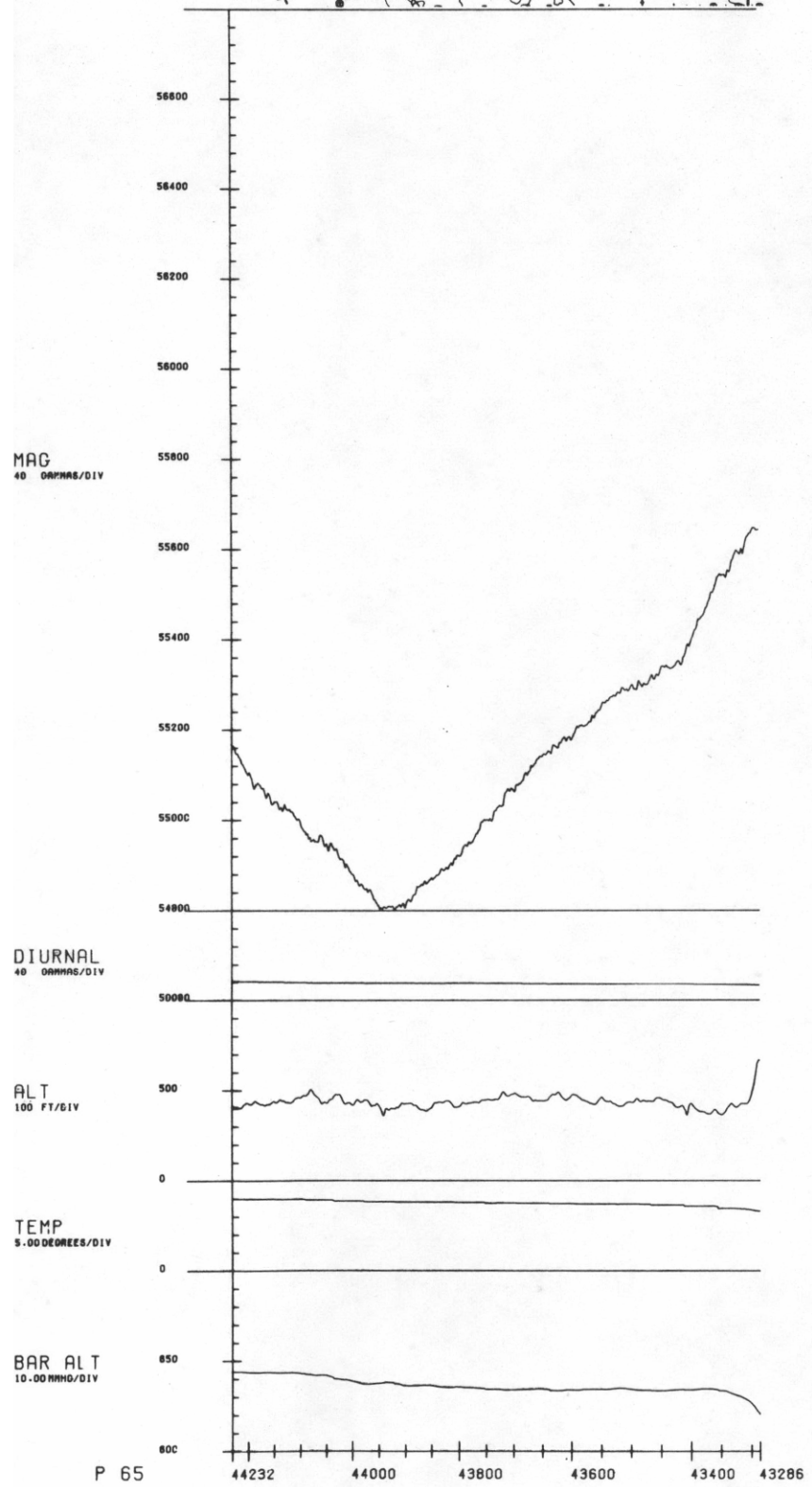
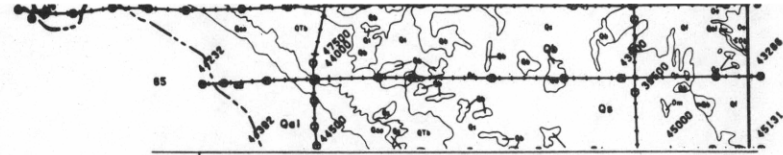


P 64

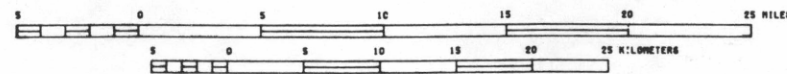
↑ EXCEEDS ALTITUDE SPECIFICATIONS



<p>NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY</p> <p>TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE MAGNETIC AND ANCILLARY STACKED PROFILE DATA 1979</p> <p>BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944 PREPARED FOR DEPARTMENT OF ENERGY</p>
--



SCALE 1:500,000



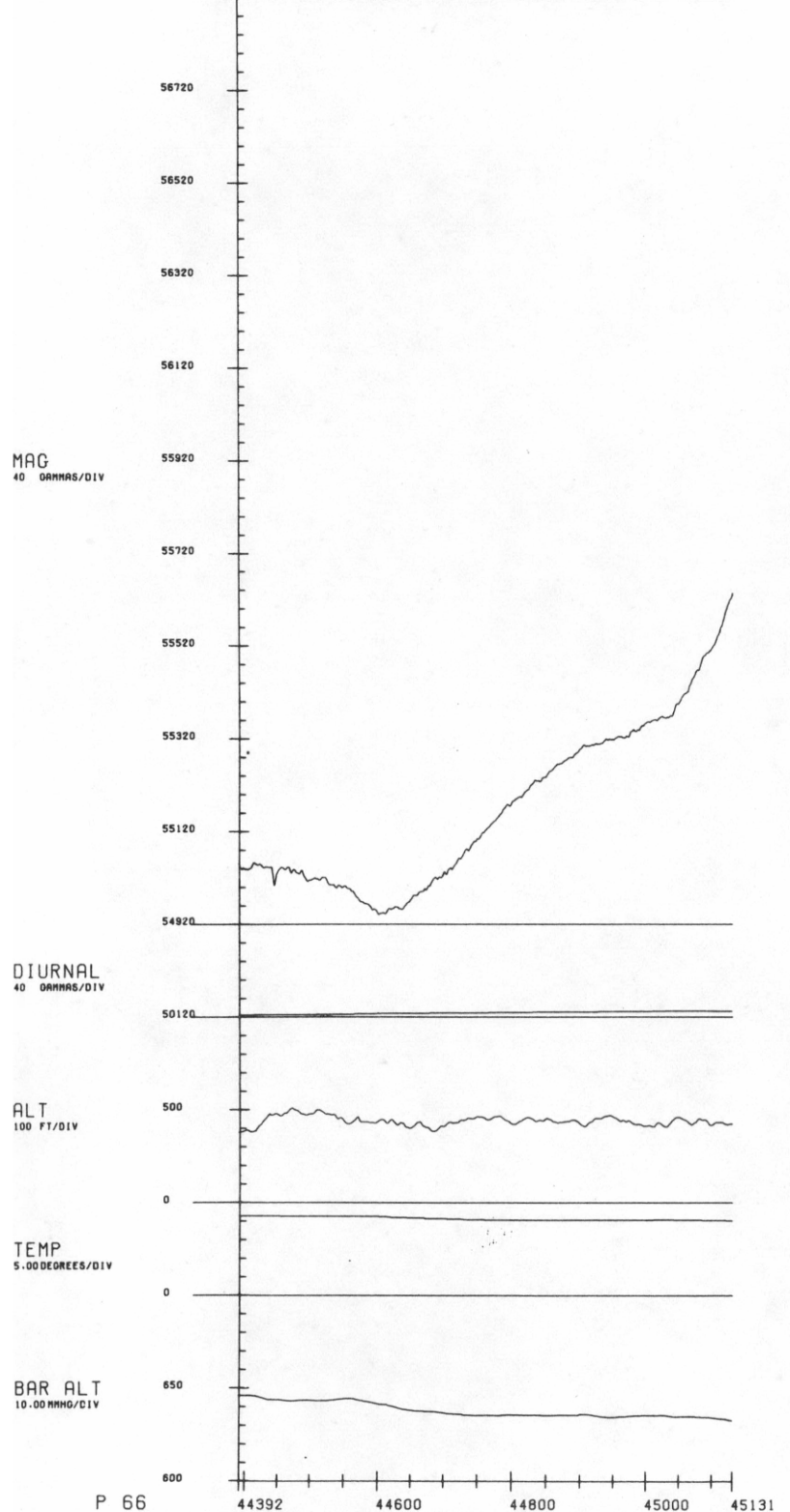
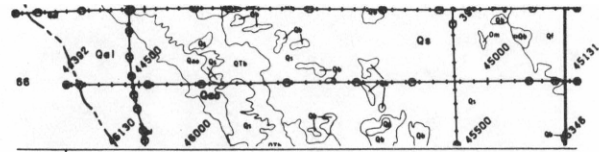
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

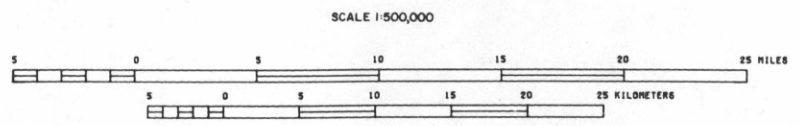
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



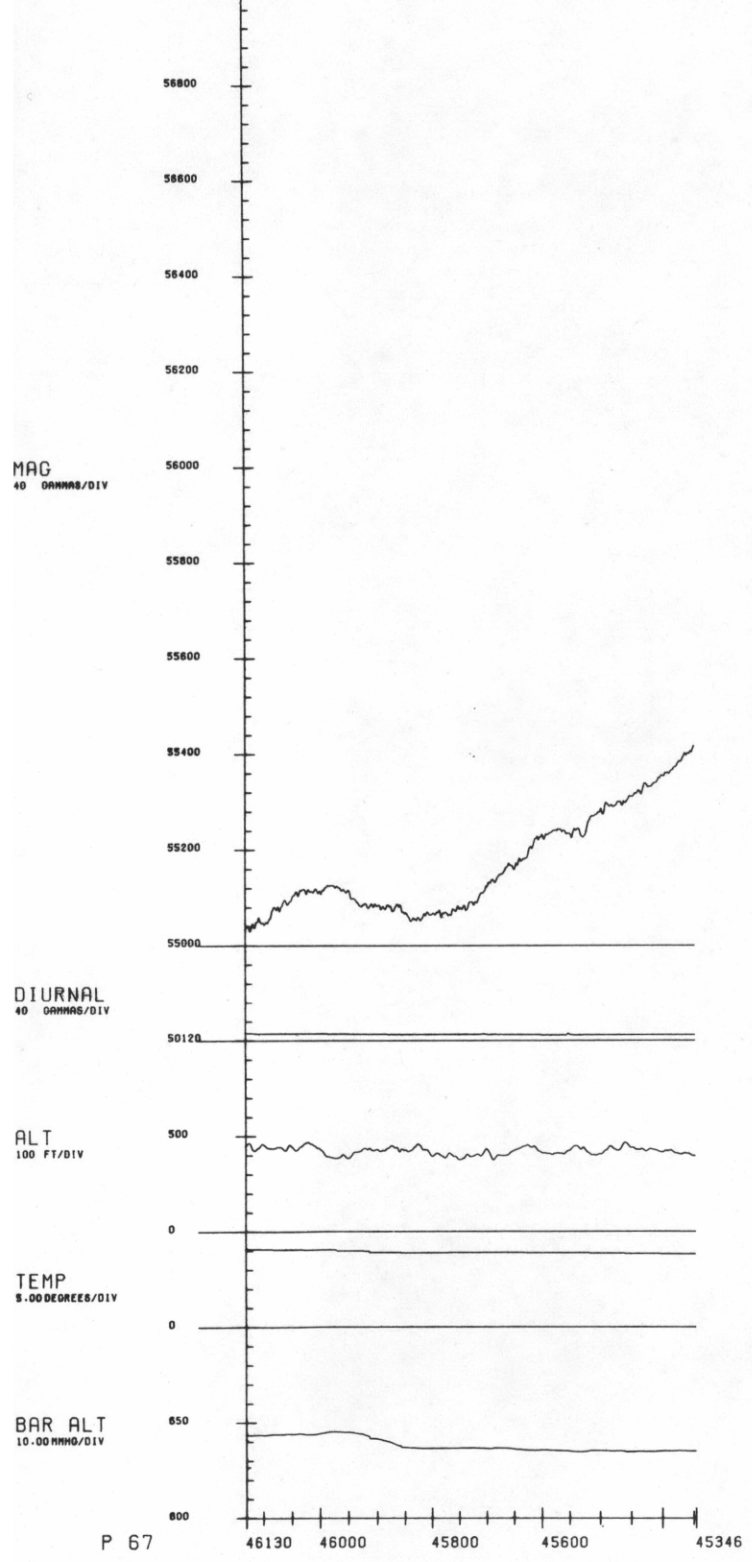
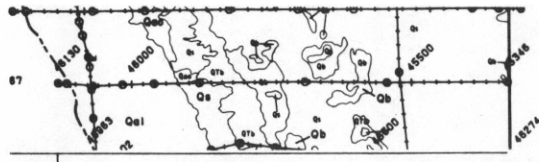
↑ EXCEEDS ALTITUDE SPECIFICATIONS



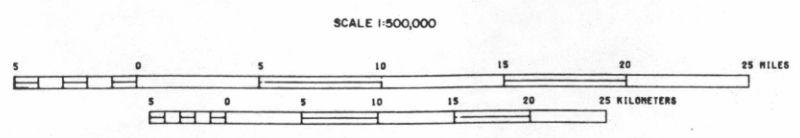
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 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



↑ EXCEEDS ALTITUDE SPECIFICATIONS

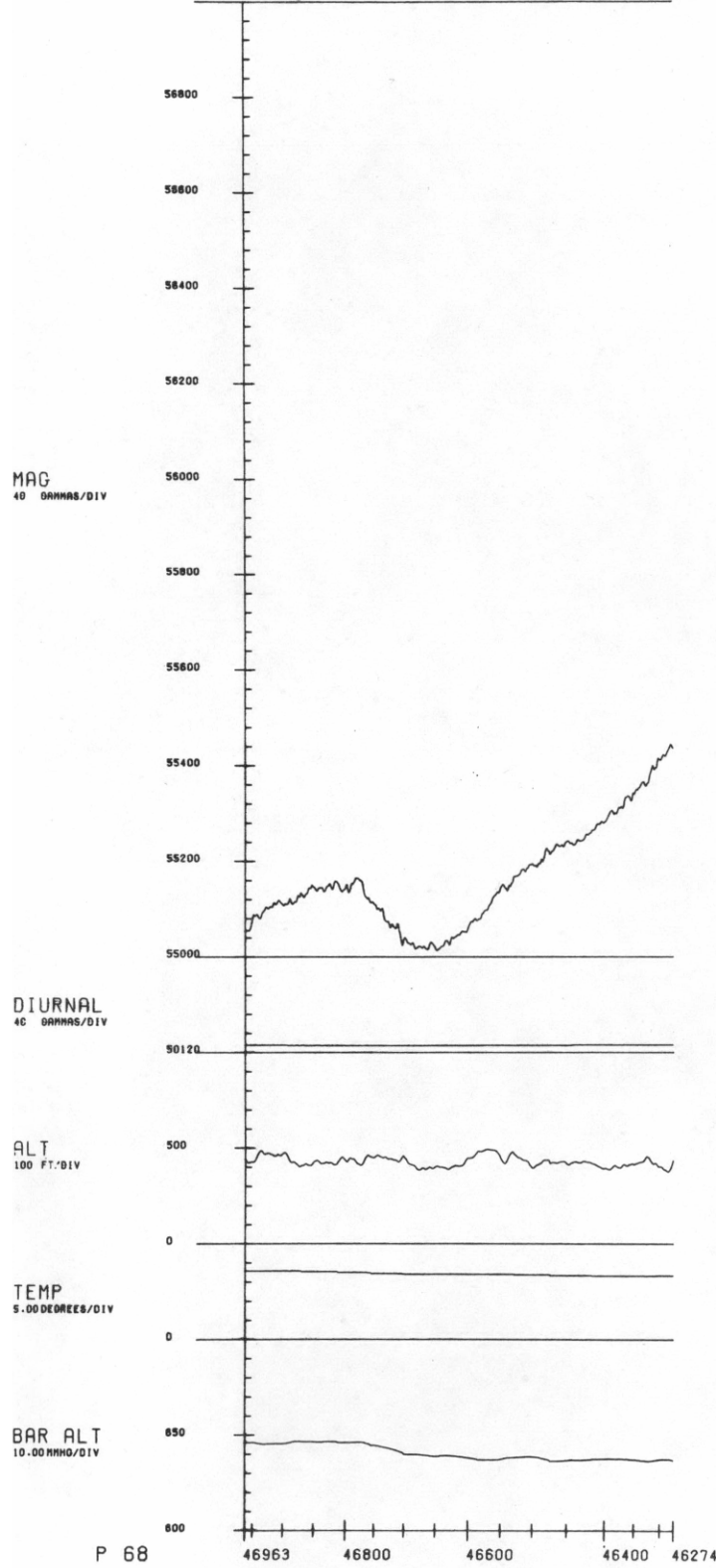
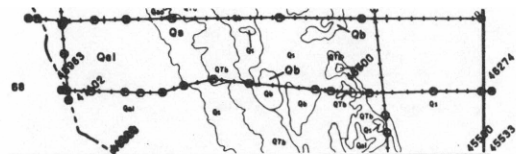


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

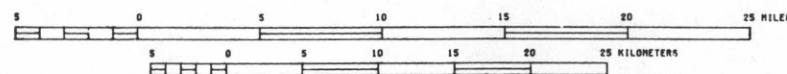
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



SCALE 1:500,000

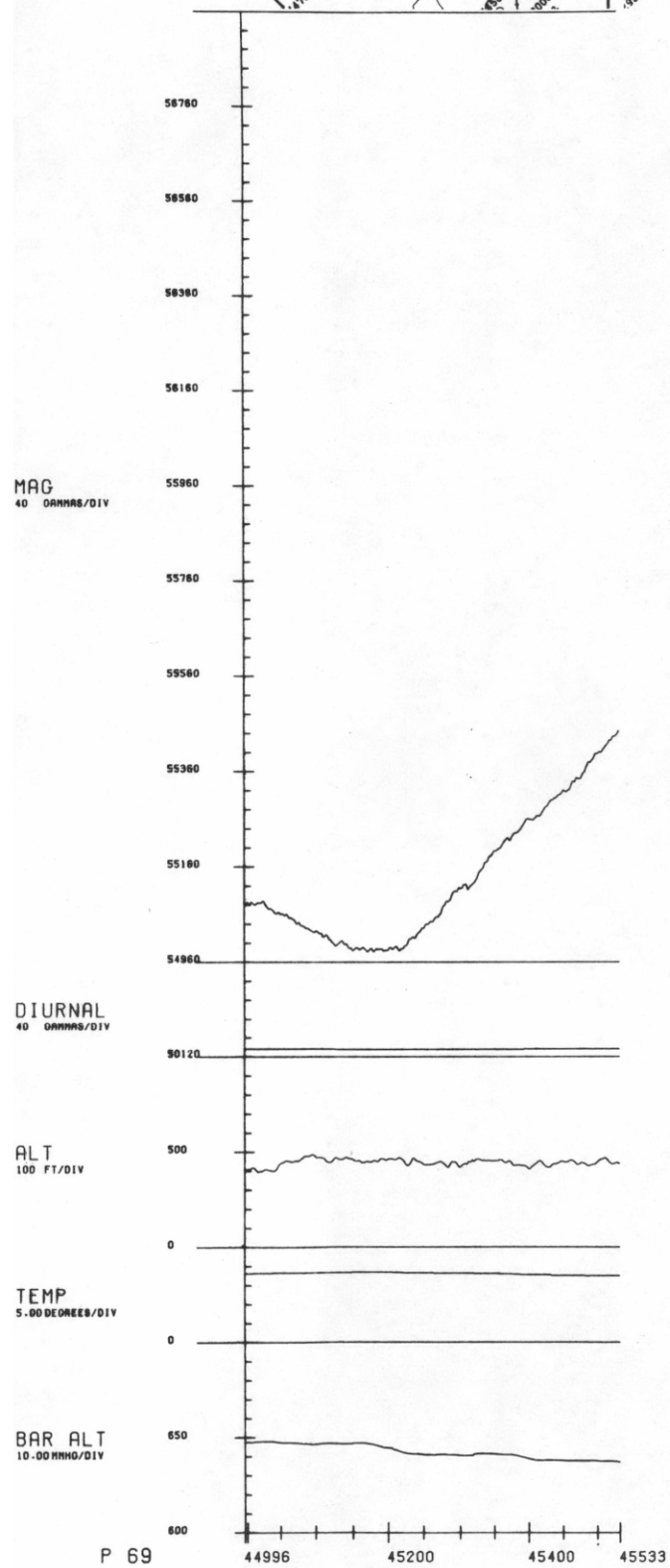
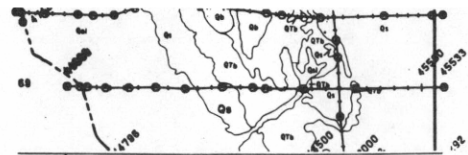


↑ EXCEEDS ALTITUDE SPECIFICATIONS

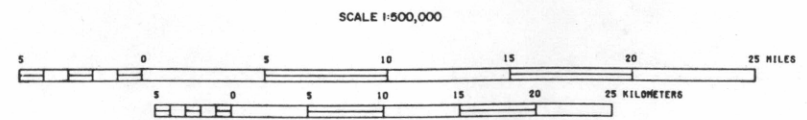
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 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



↑ EXCEEDS ALTITUDE SPECIFICATIONS

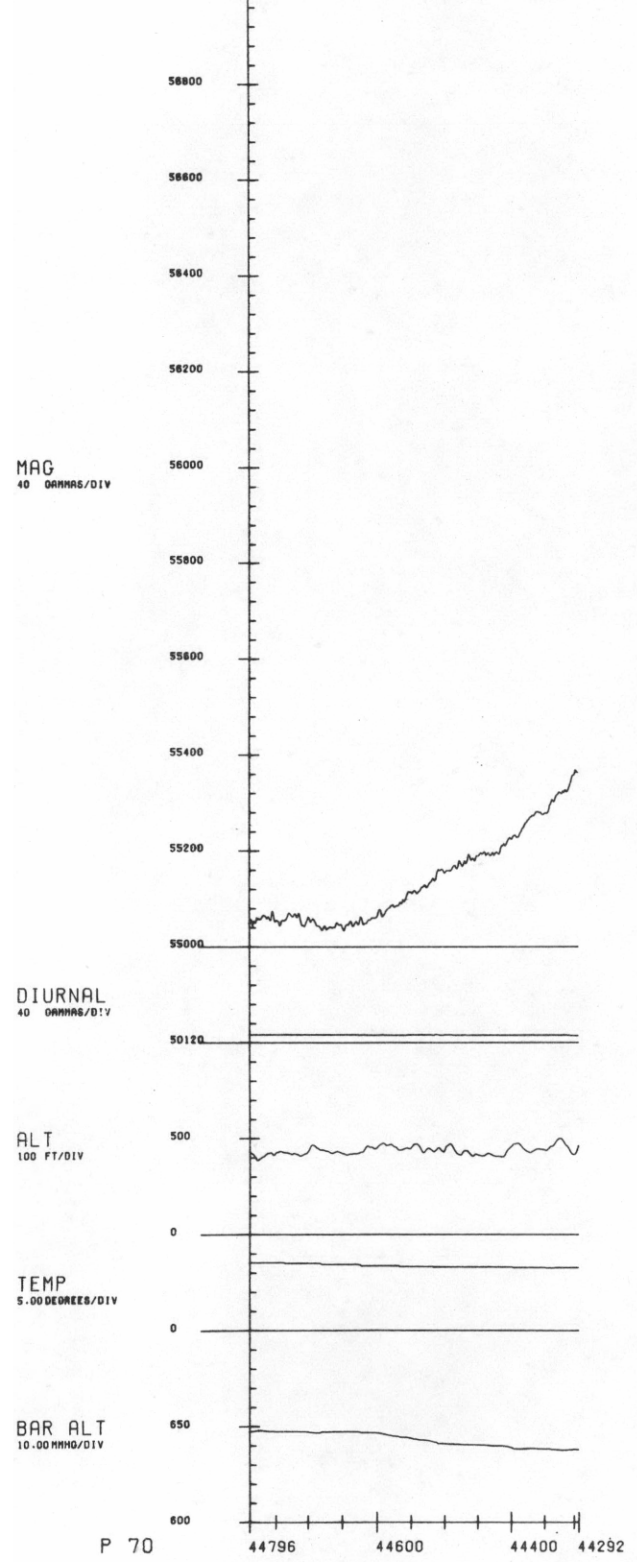
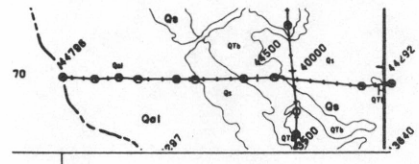


NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

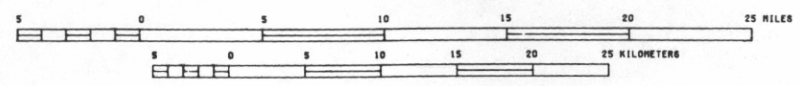
PREPARED FOR
DEPARTMENT OF ENERGY



P 70

↑ EXCEEDS ALTITUDE SPECIFICATIONS

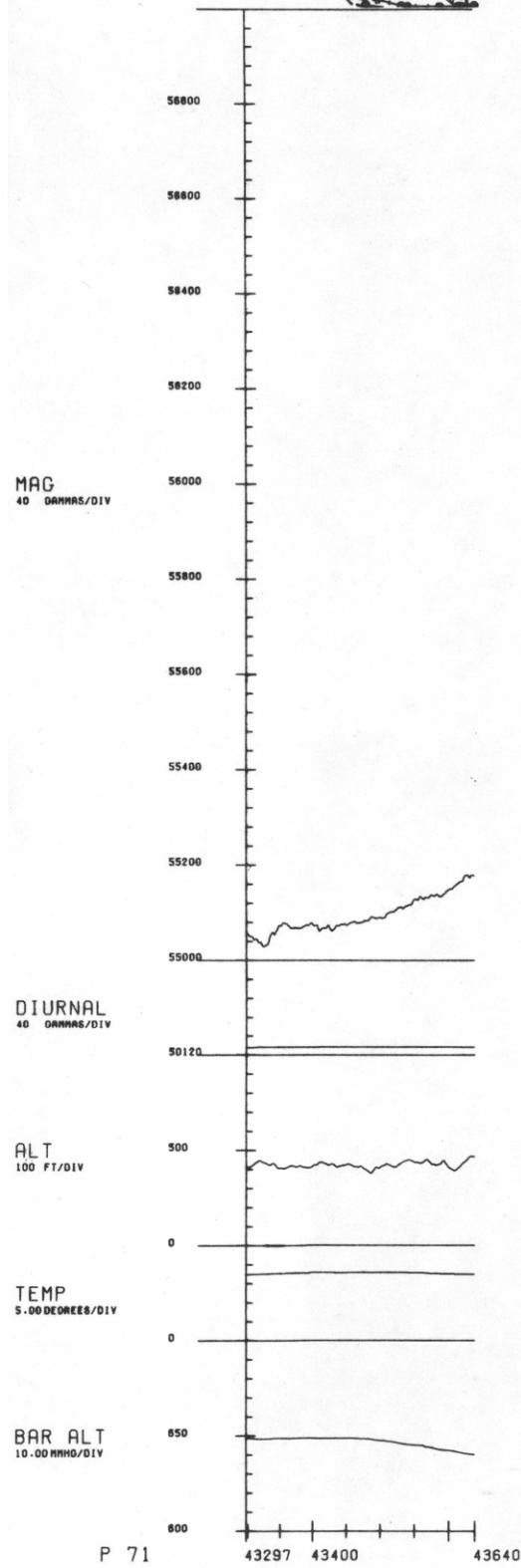
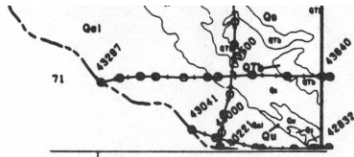
SCALE 1:500,000



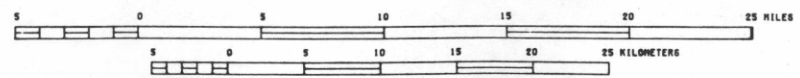
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 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

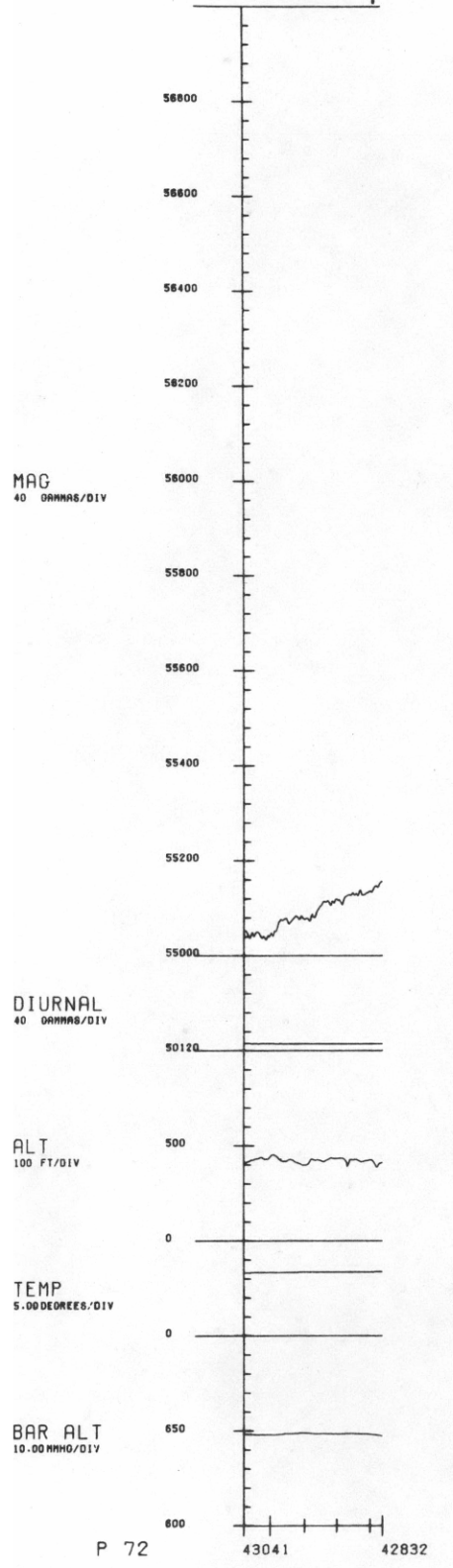
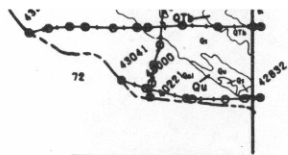


↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 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

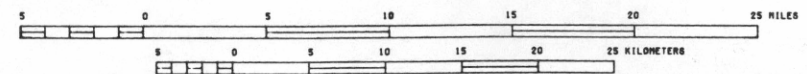


P 72

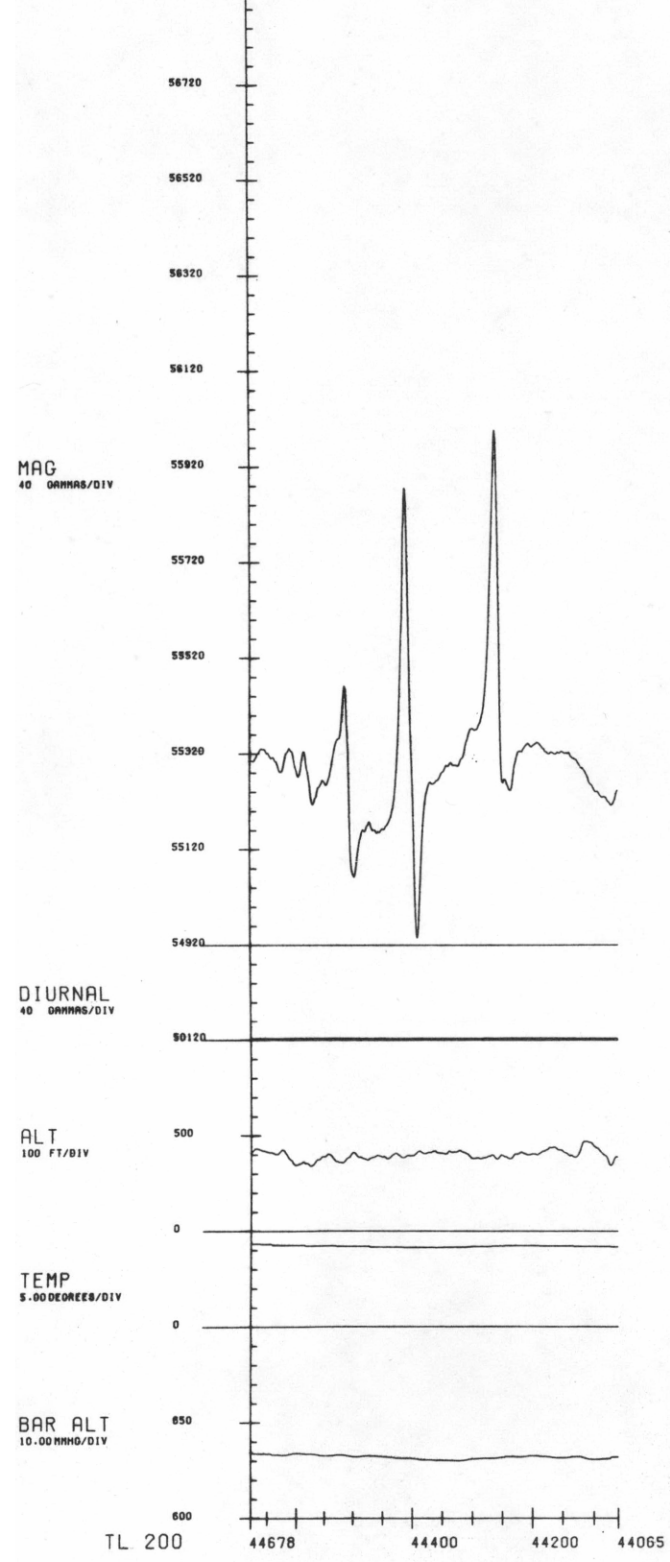
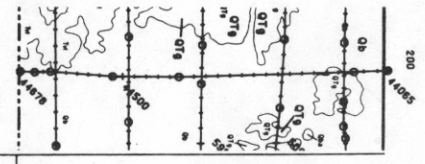
43041 42832

↑ EXCEEDS ALTITUDE SPECIFICATIONS

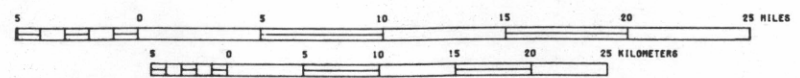
SCALE 1:500,000



NURE AERIAL GAMMA-RAY AND MAGNETIC
 RECONNAISSANCE SURVEY
 TEXAS-NEW MEXICO-EL PASO NH 13-1 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



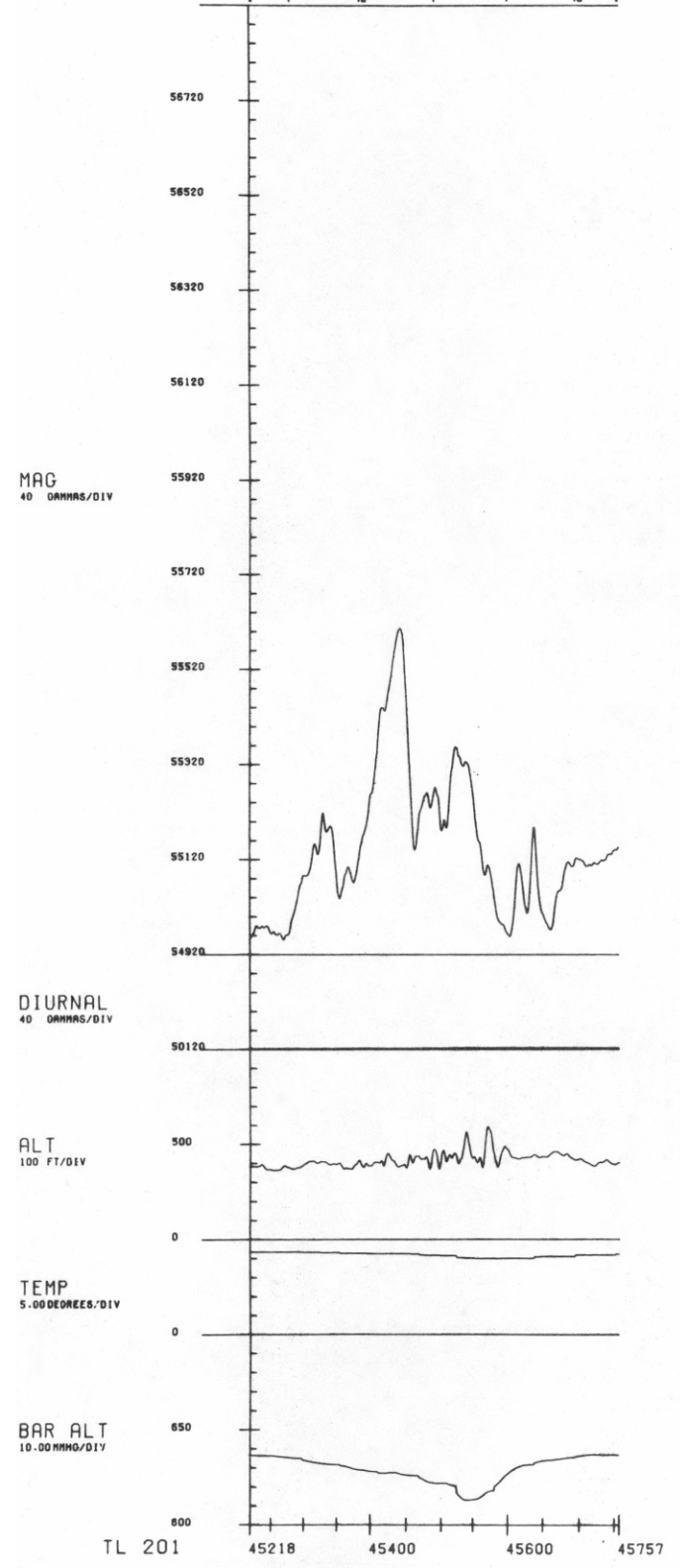
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

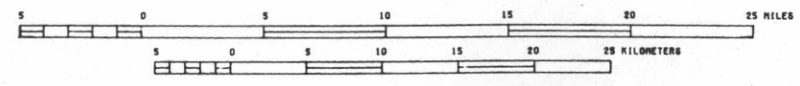
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



SCALE 1:500,000



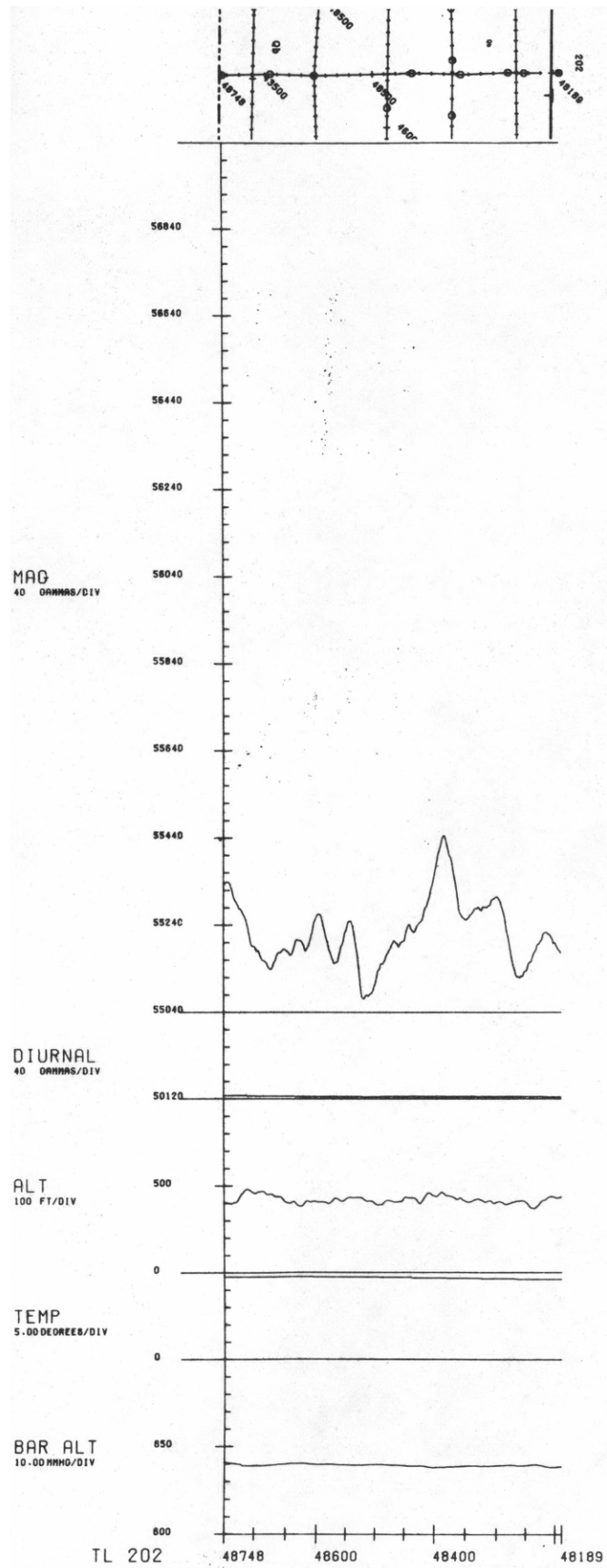
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

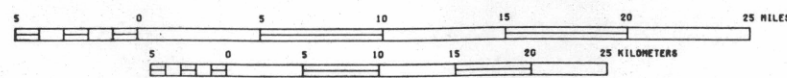
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



SCALE 1:500,000



↑ EXCEEDS ALTITUDE SPECIFICATIONS

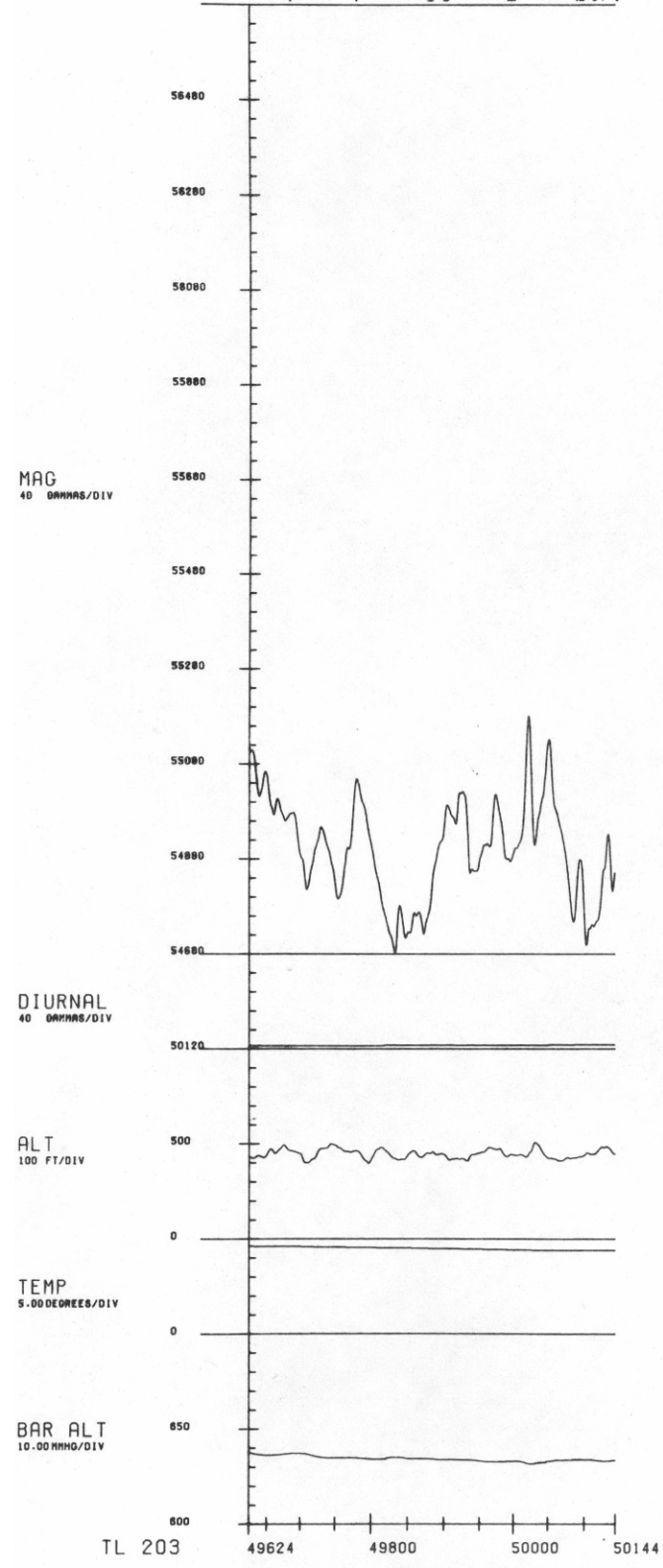
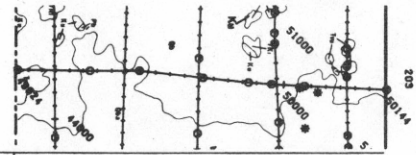
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA

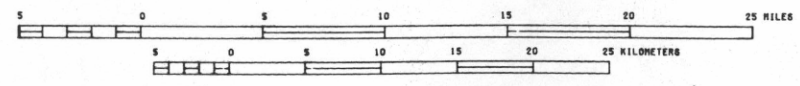
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



SCALE 1:500,000

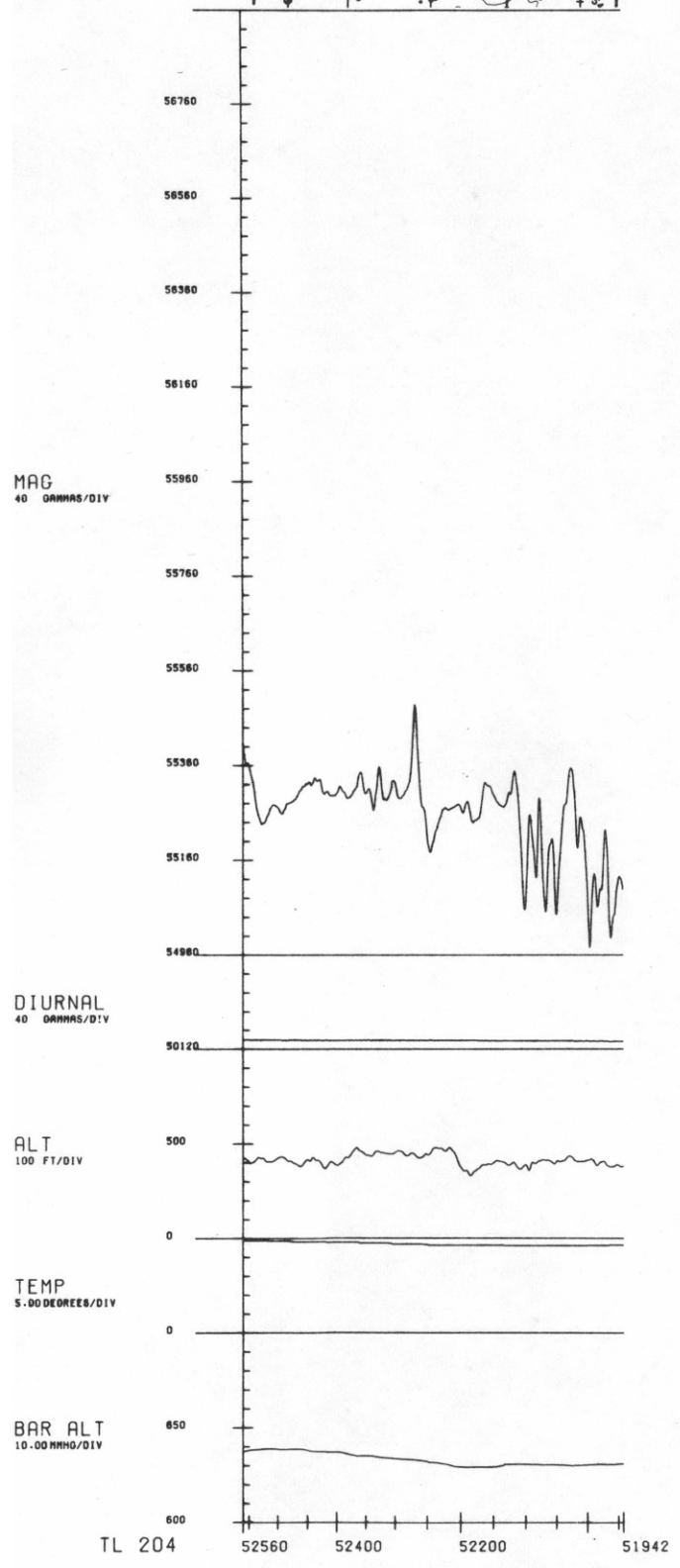
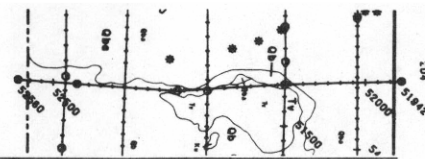


↑ EXCEEDS ALTITUDE SPECIFICATIONS

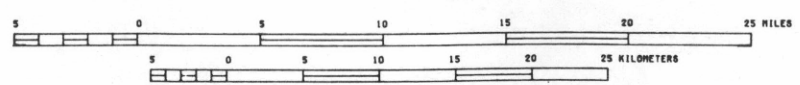
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 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



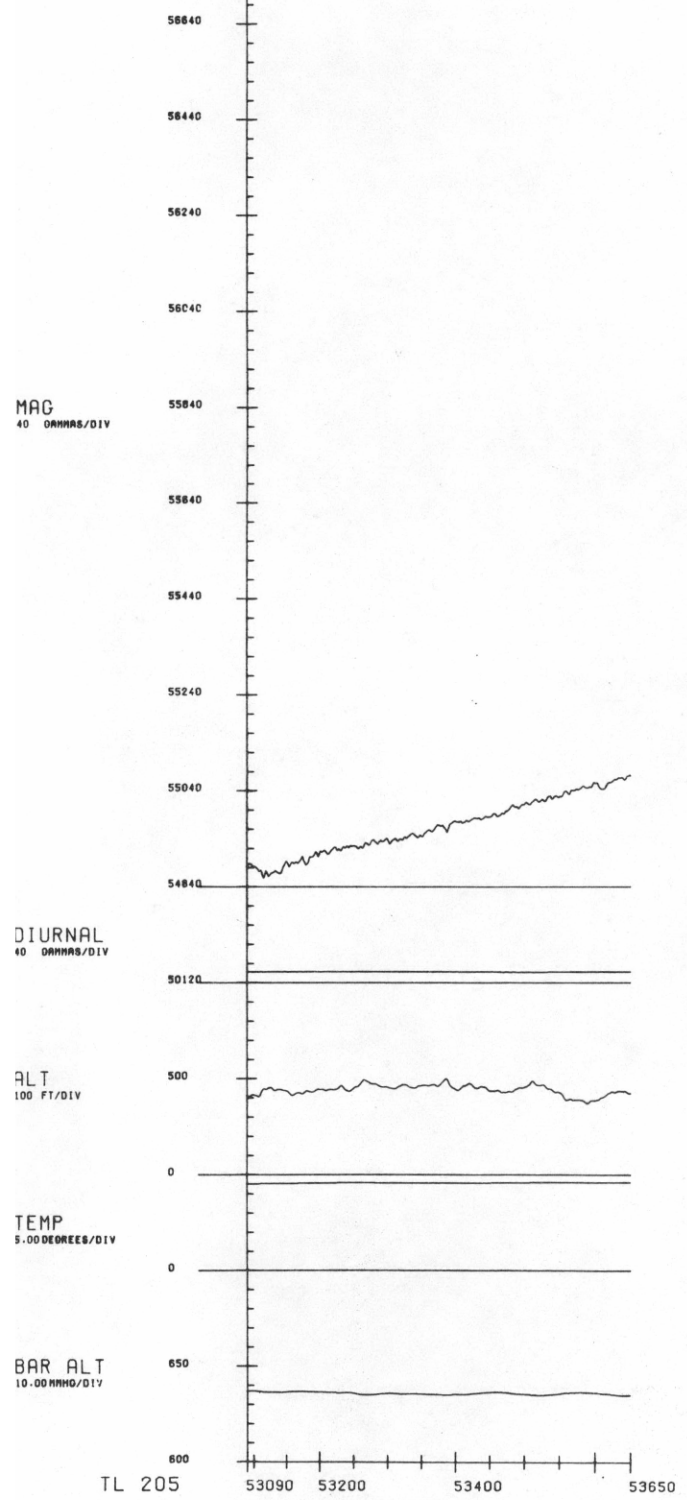
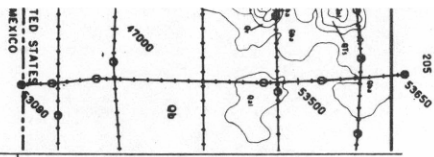
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

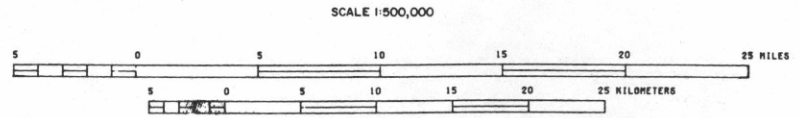
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



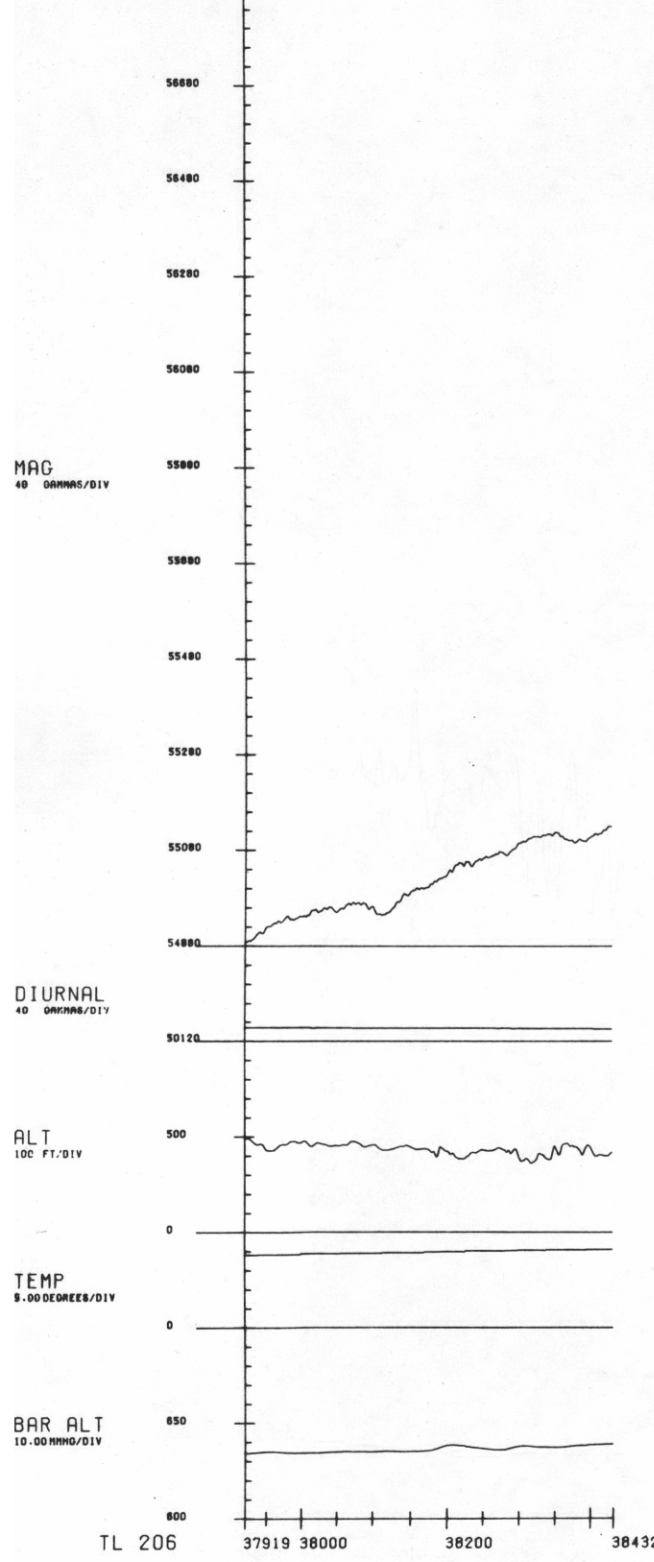
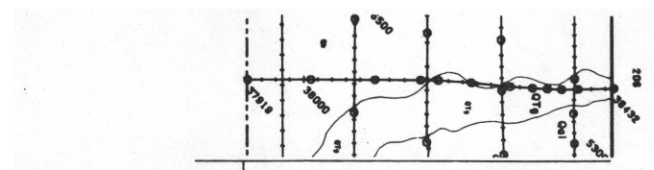
↑ EXCEEDS ALTITUDE SPECIFICATIONS



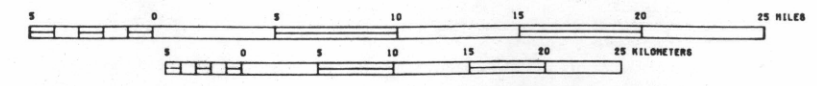
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 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



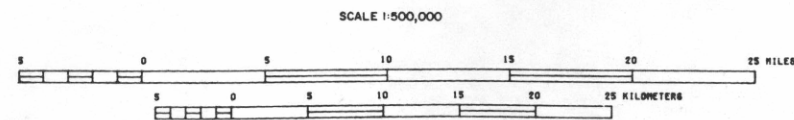
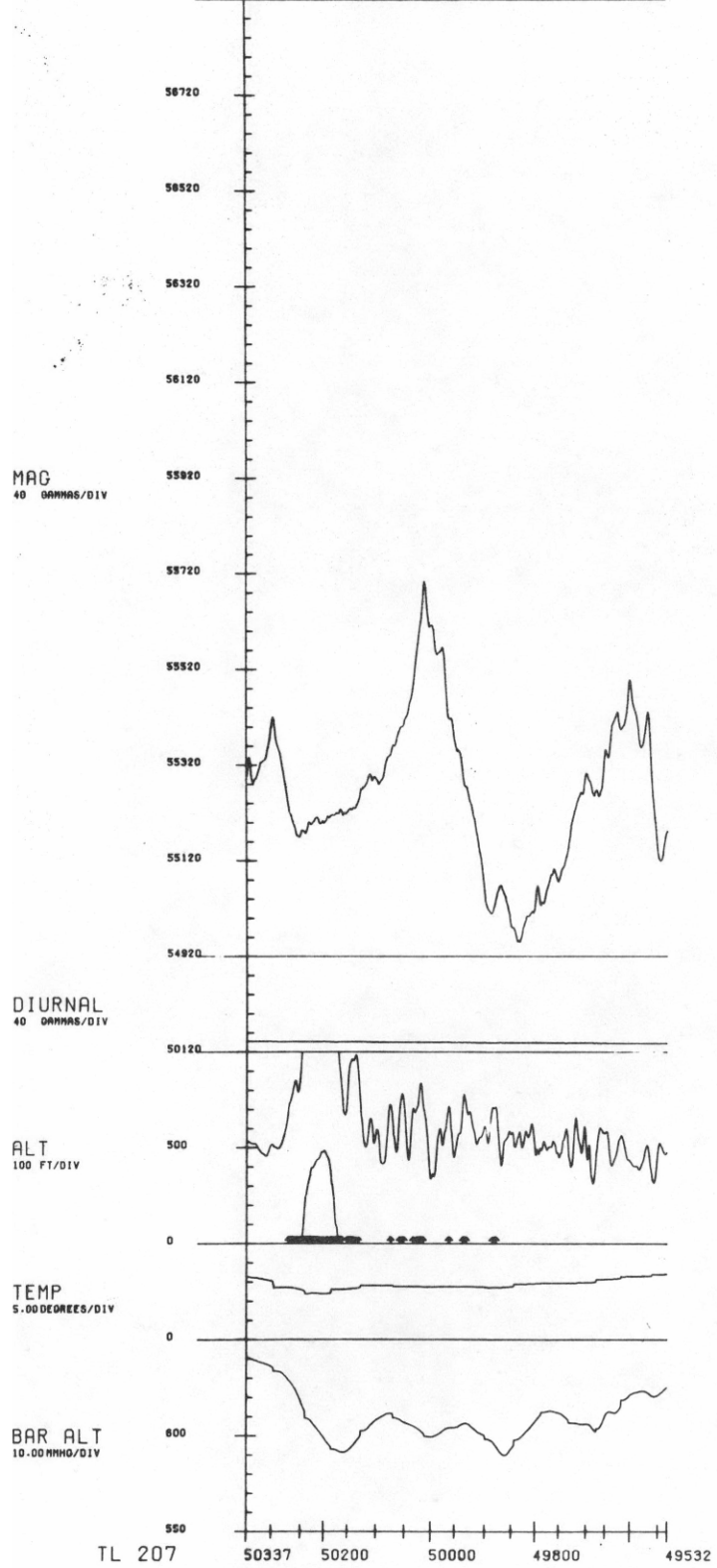
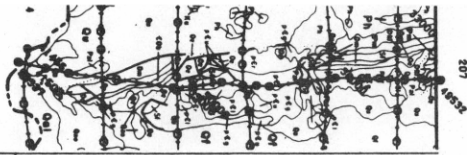
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

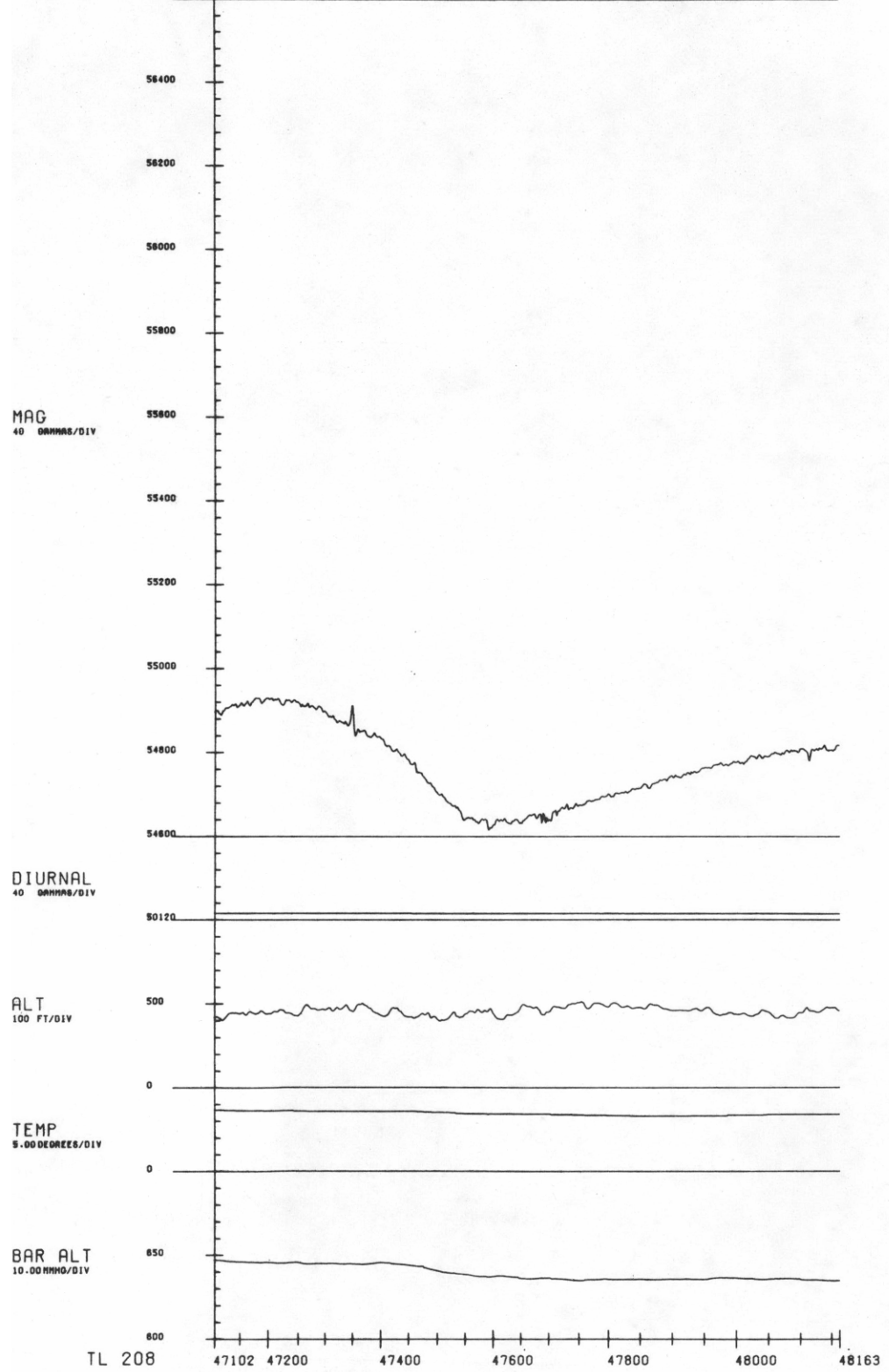
PREPARED FOR
DEPARTMENT OF ENERGY



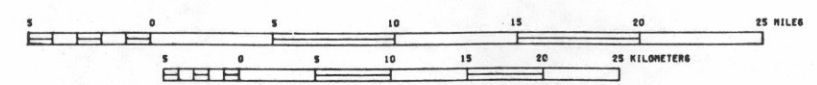
NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

TEXAS-NEW MEXICO-EL PASO NH 13-1 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



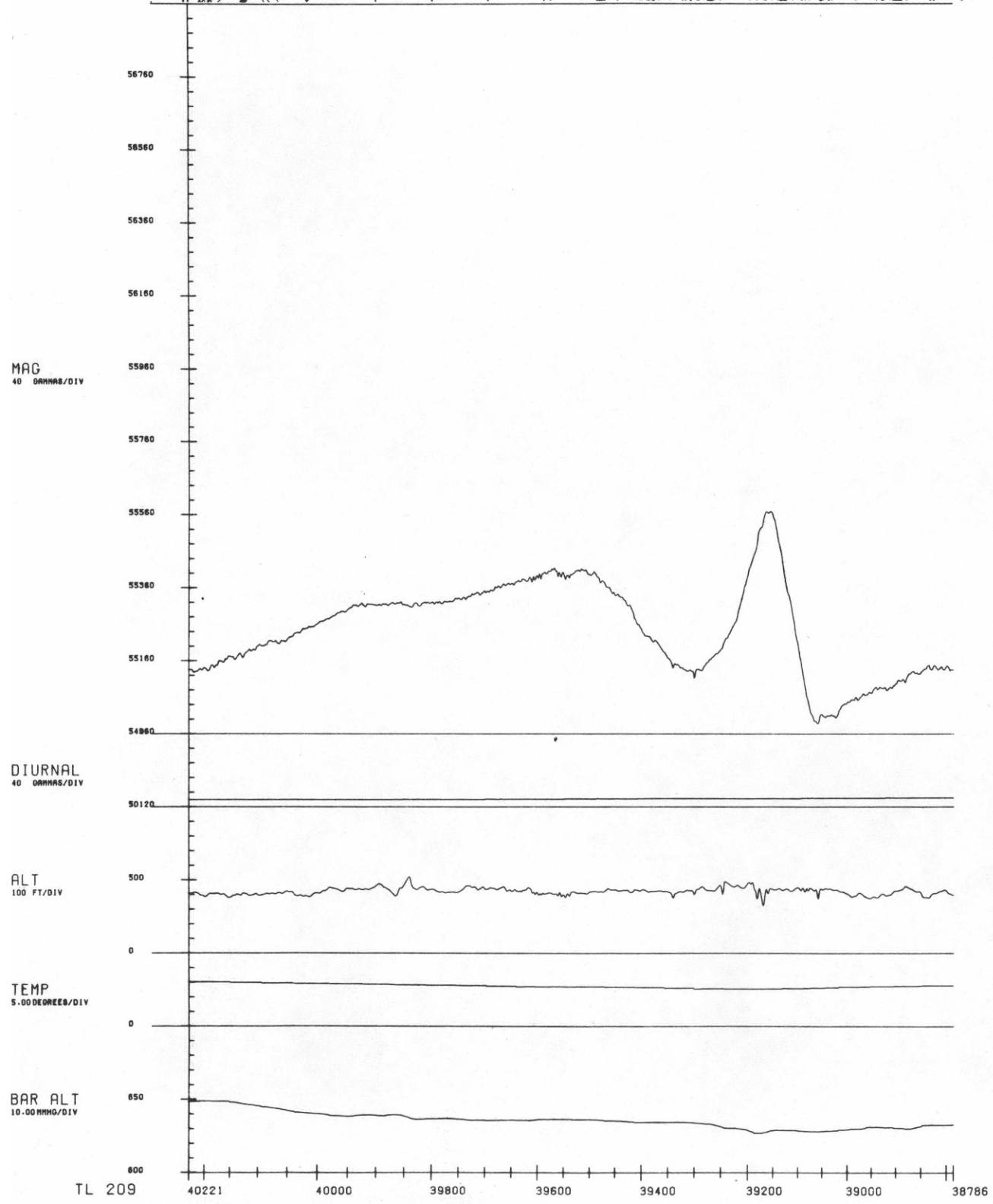
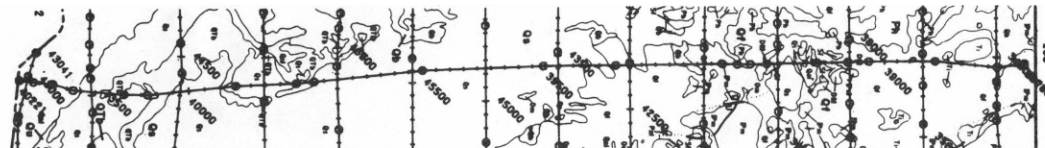
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

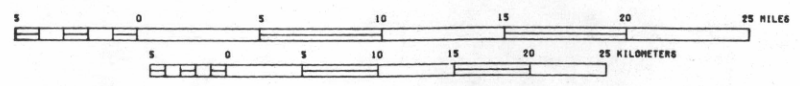
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

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

PREPARED FOR
DEPARTMENT OF ENERGY



SCALE 1:500,000



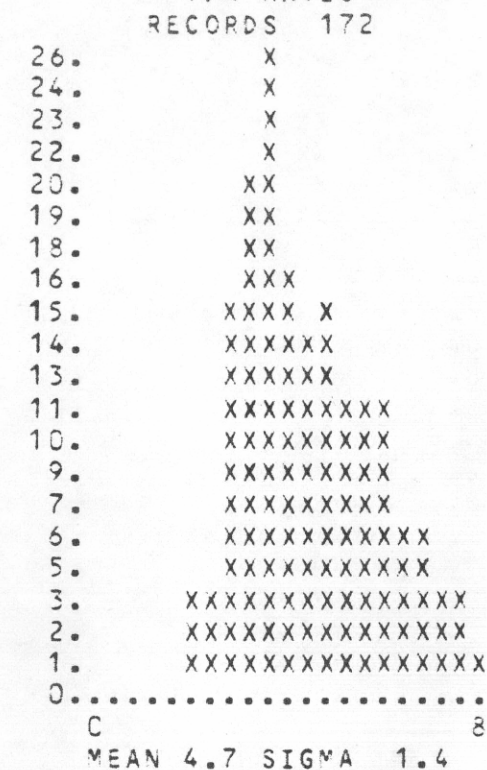
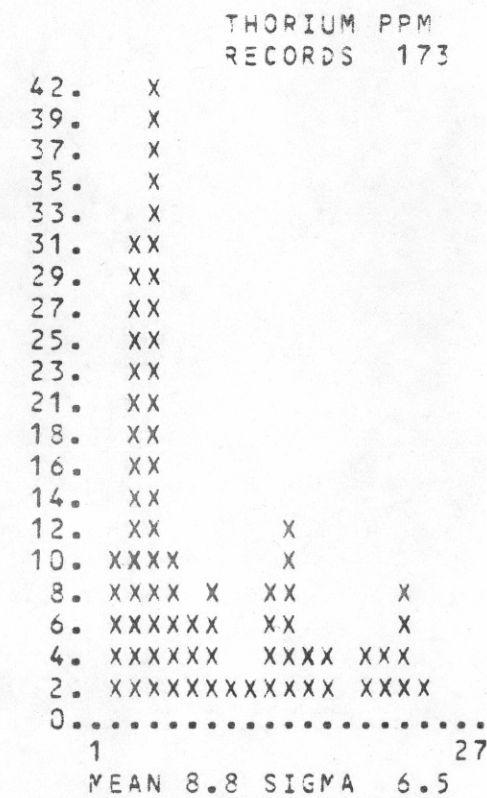
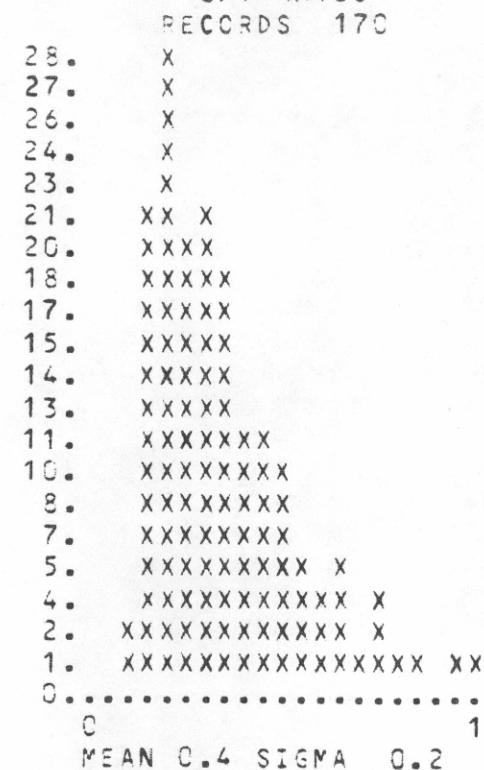
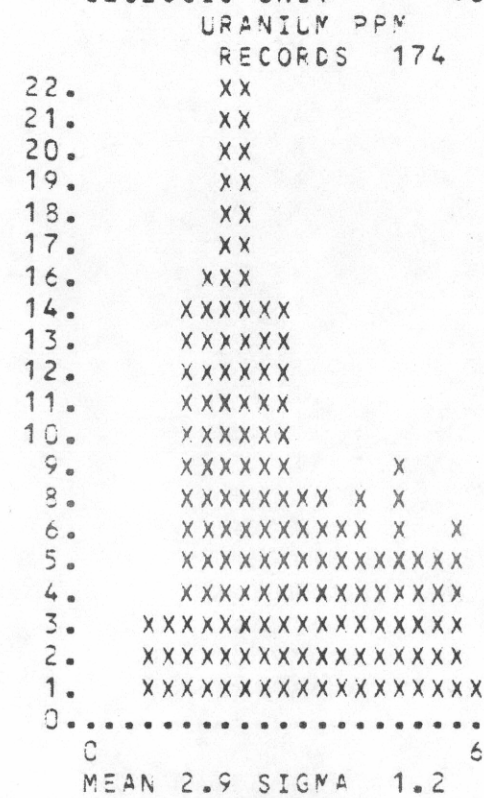
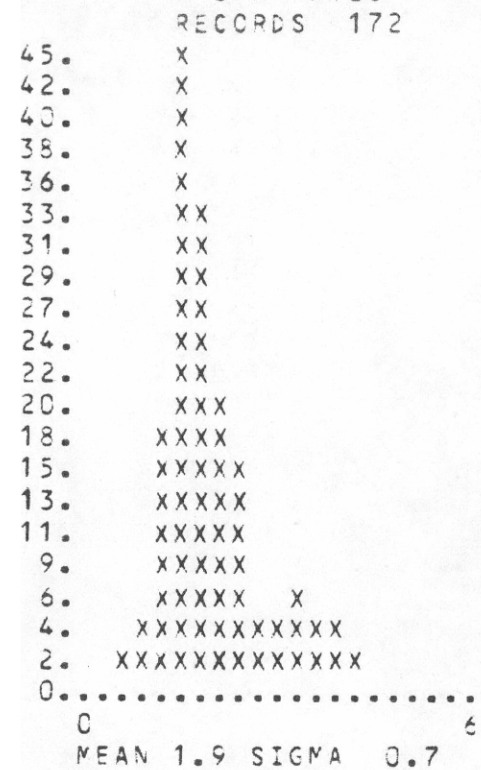
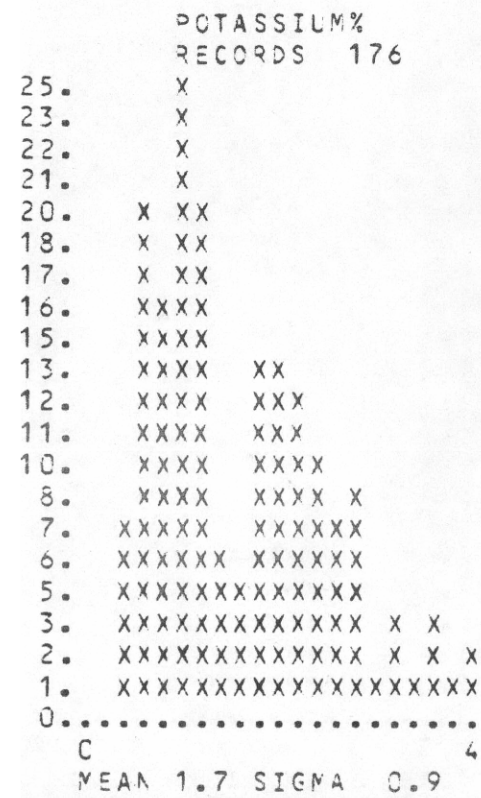
↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

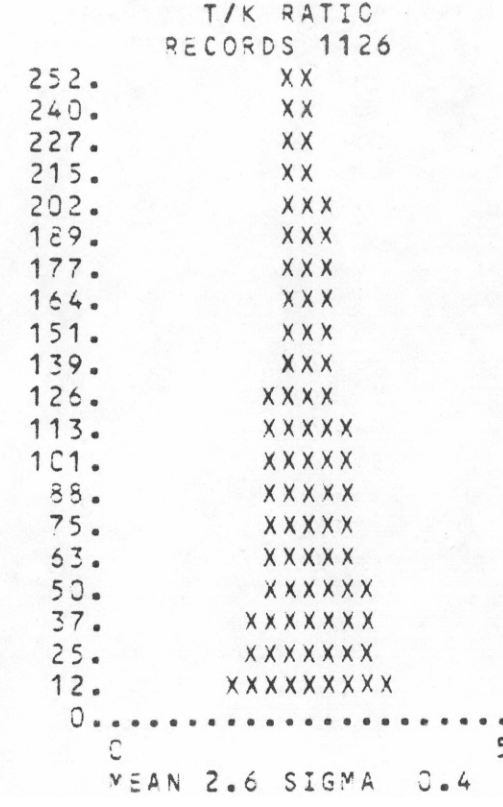
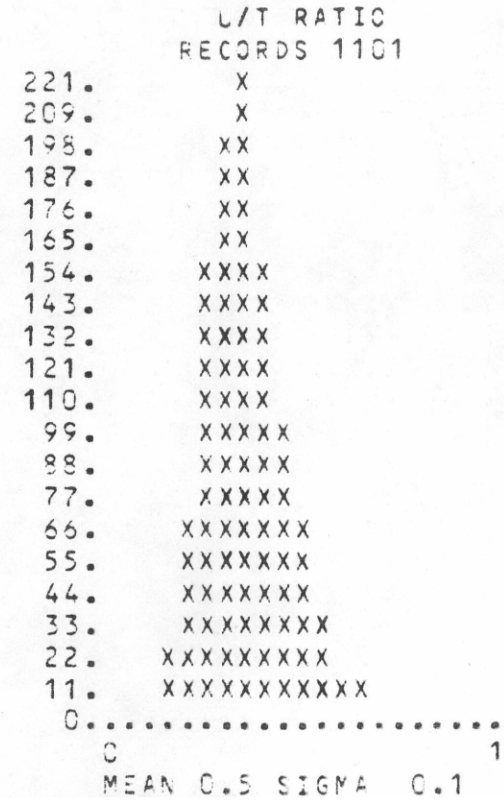
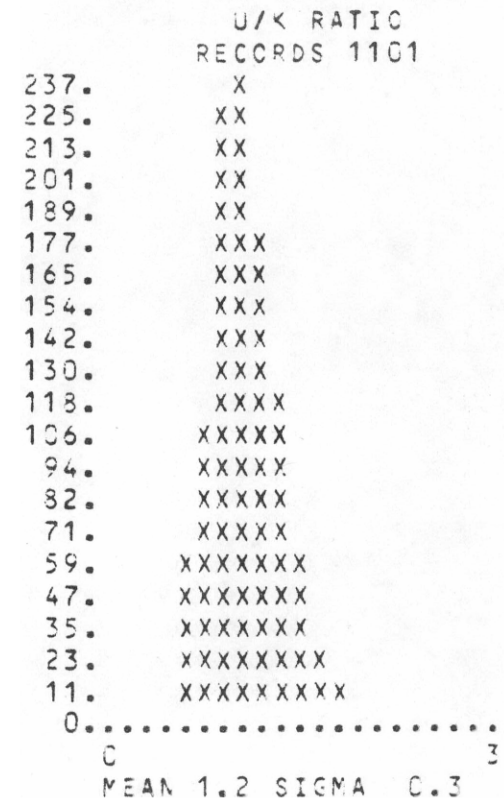
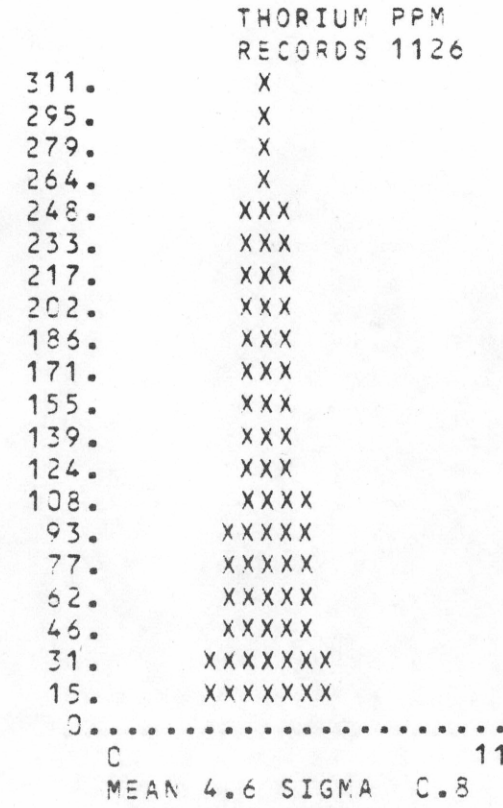
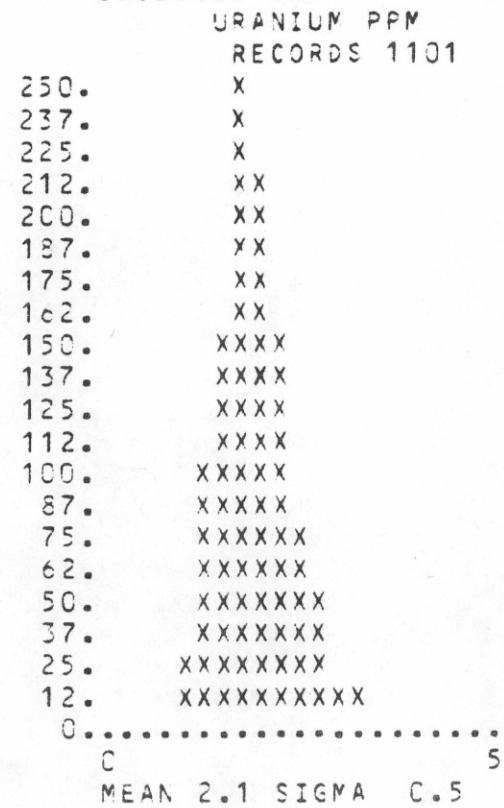
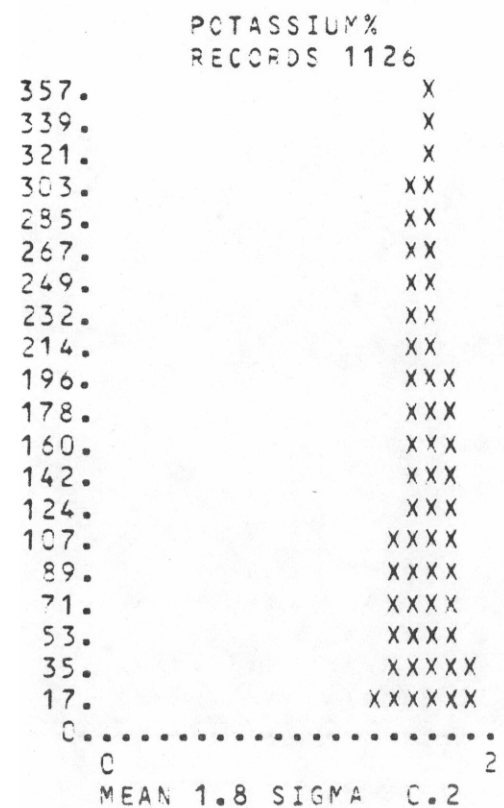
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979

BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
PREPARED FOR
DEPARTMENT OF ENERGY

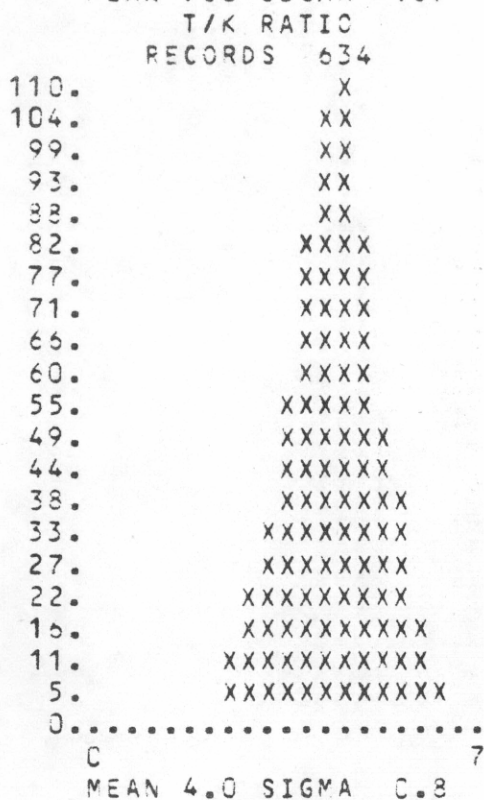
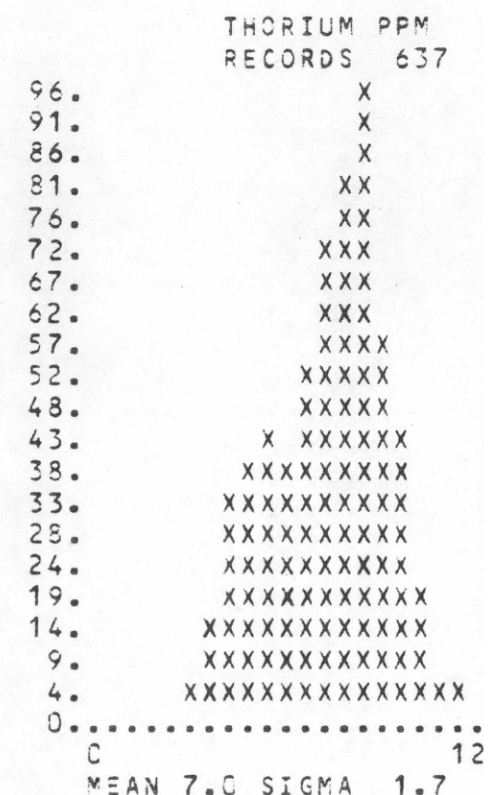
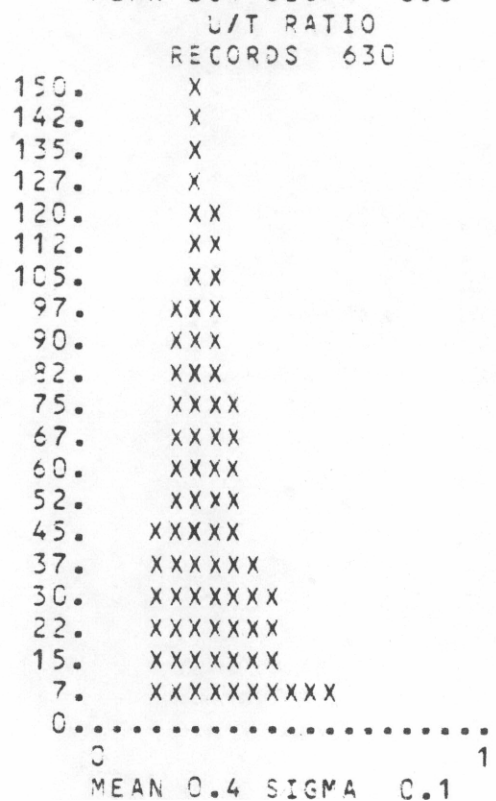
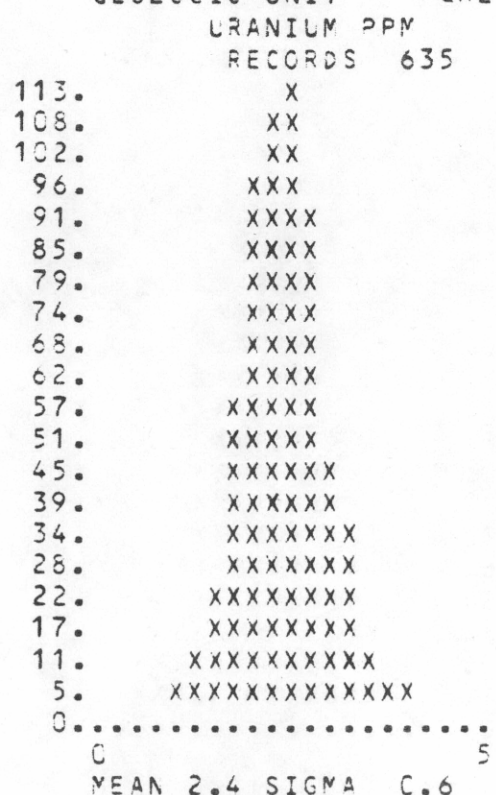
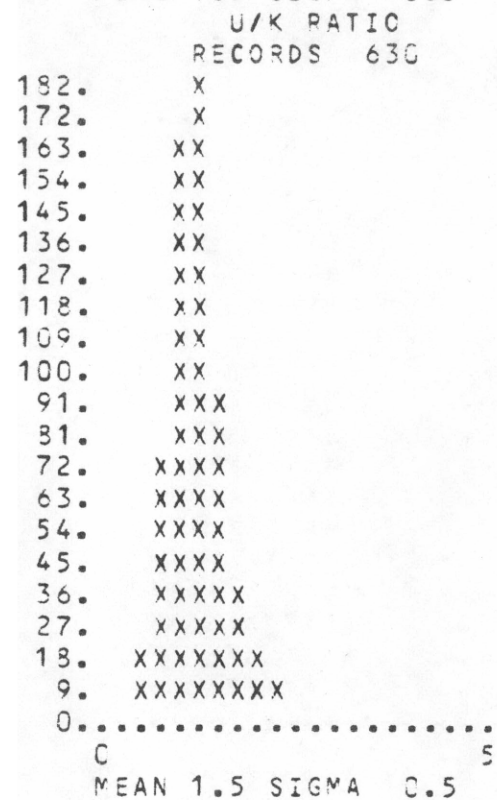
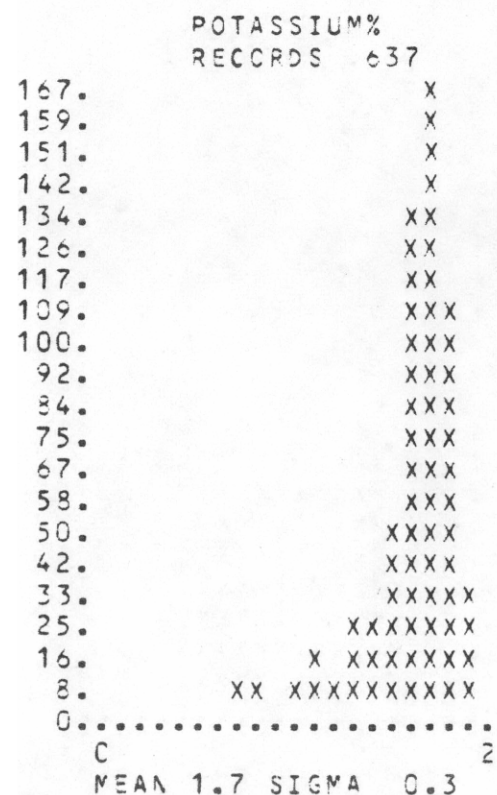
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT GU



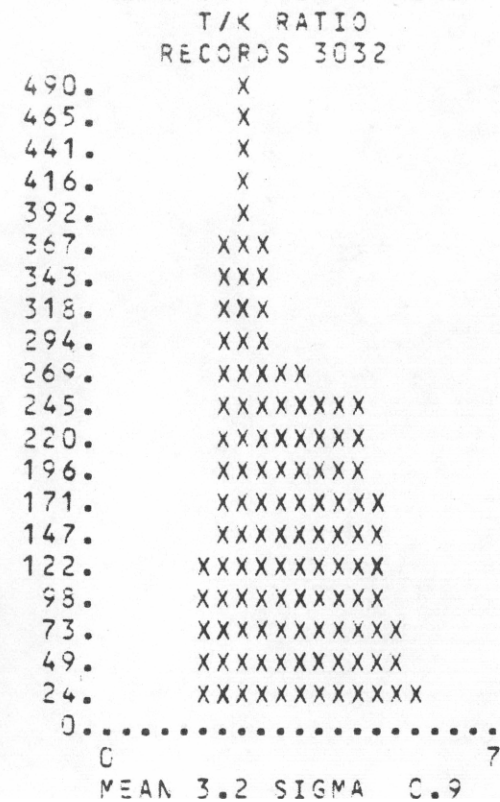
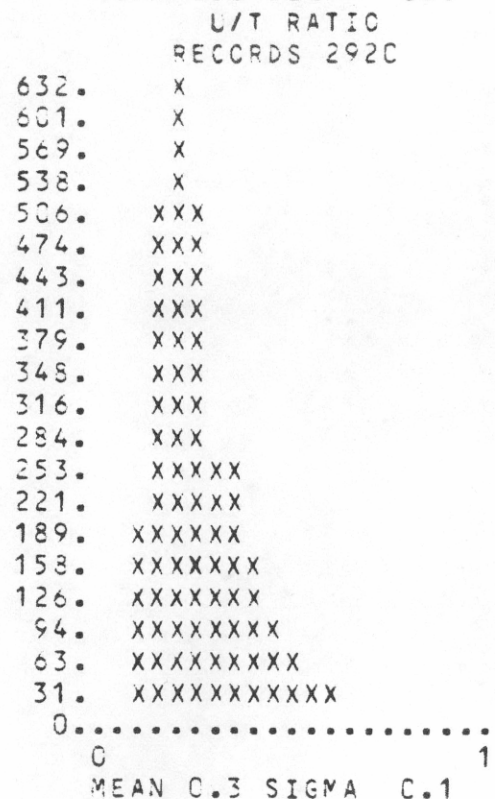
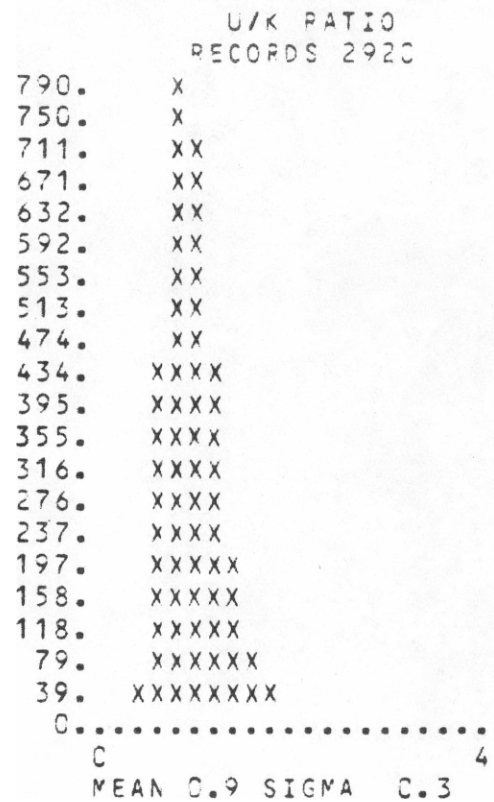
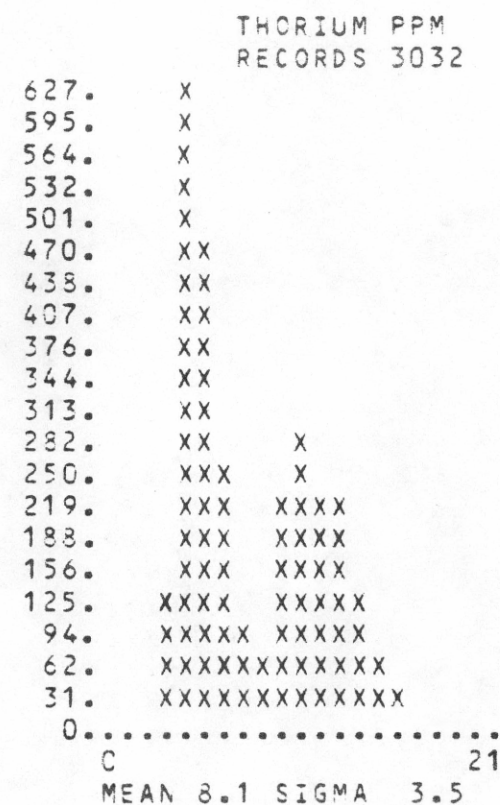
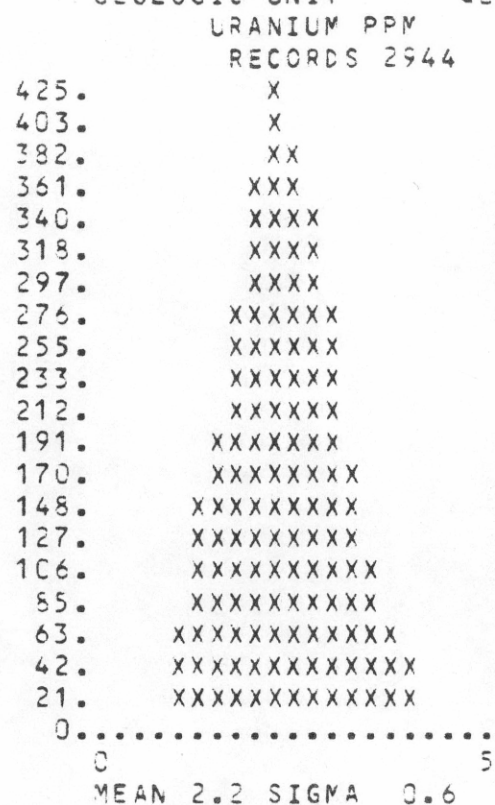
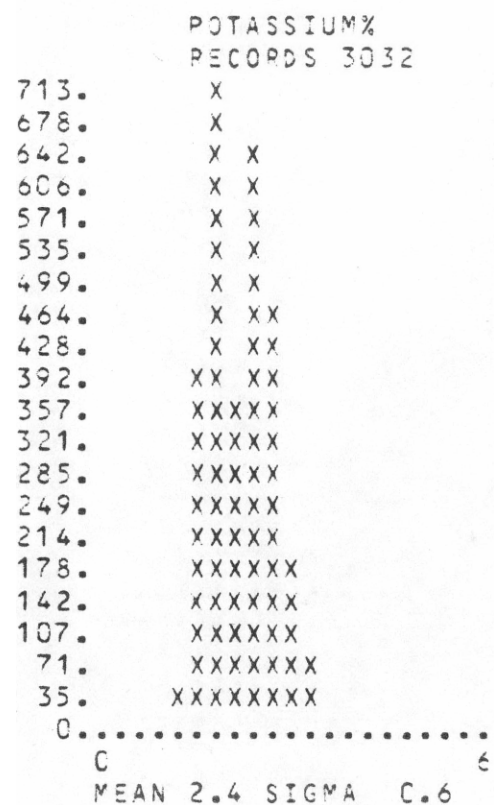
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT GS



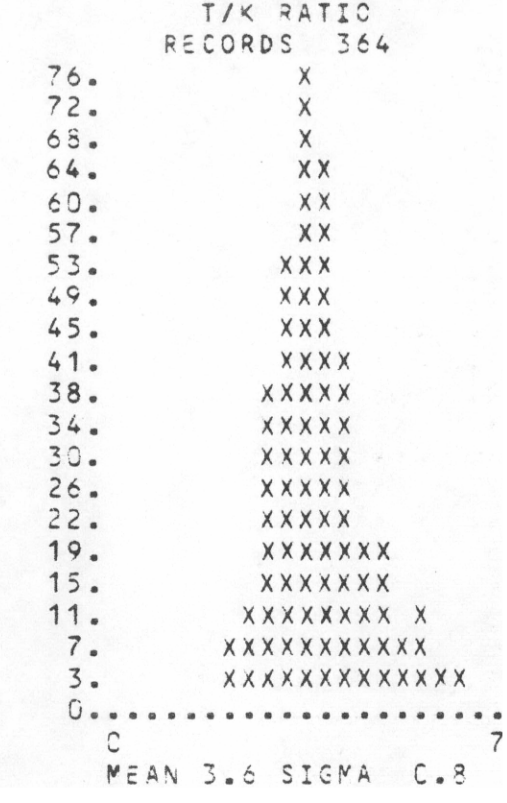
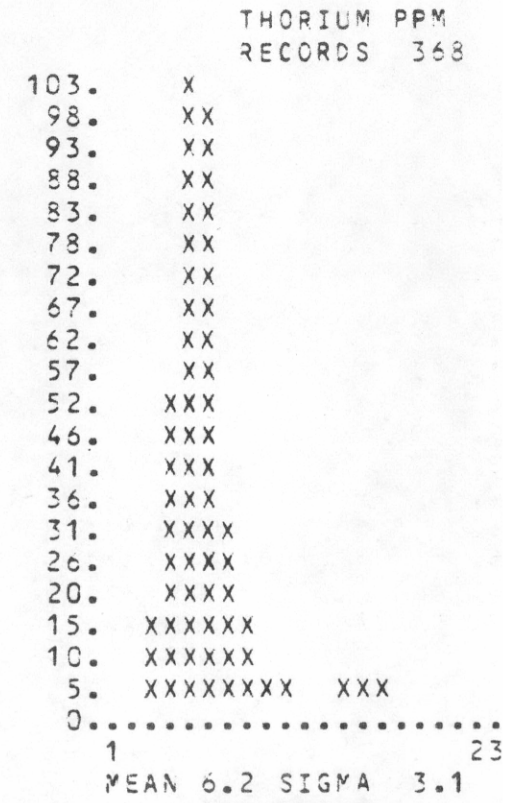
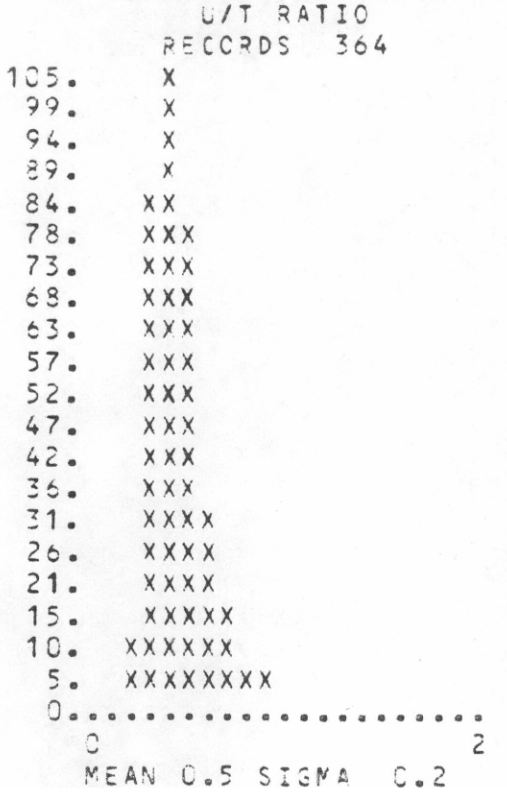
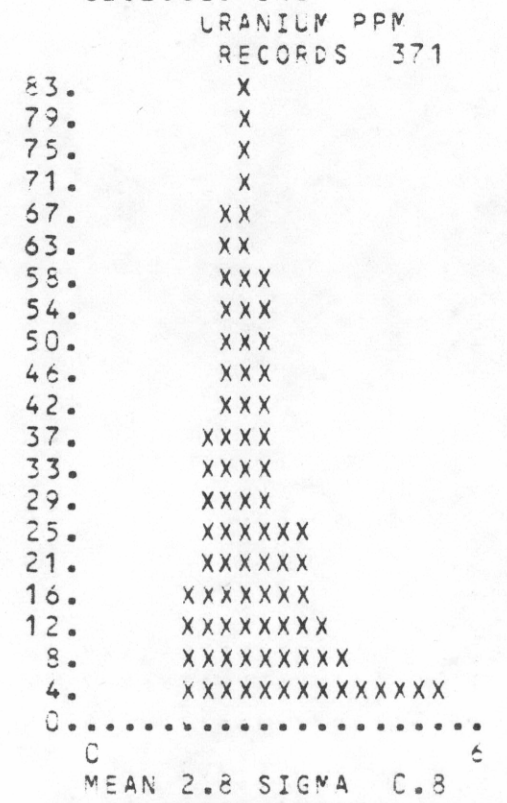
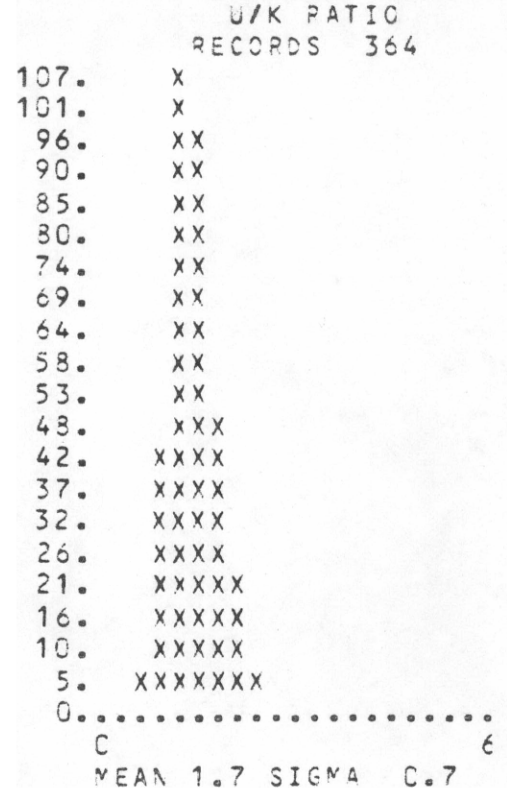
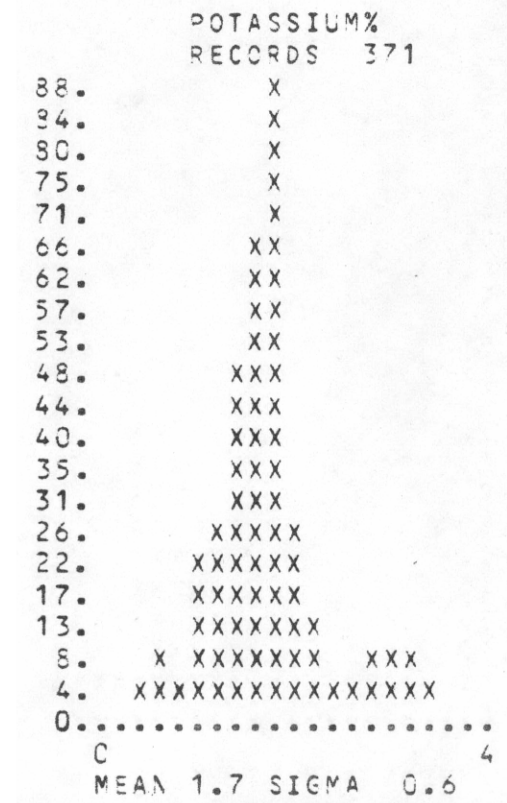
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT GAL



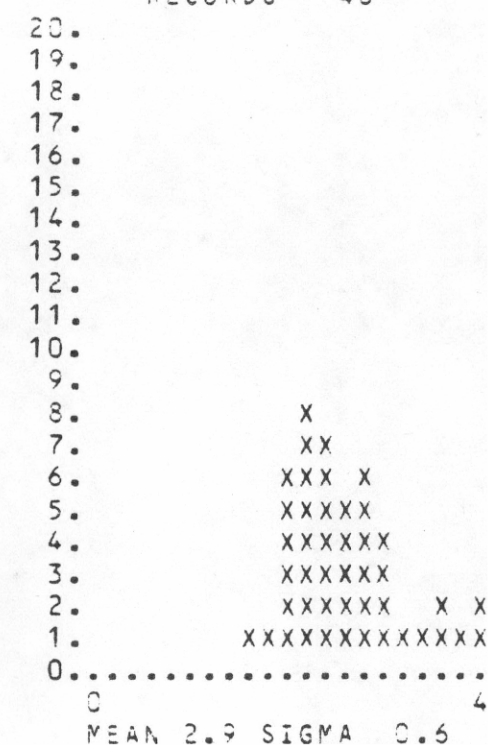
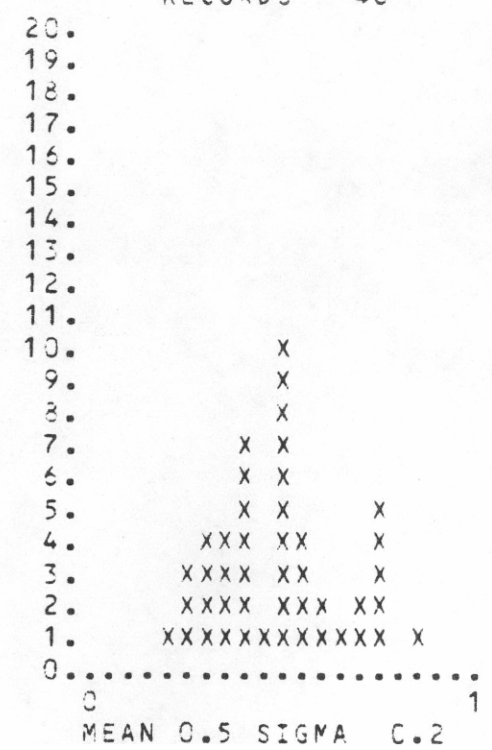
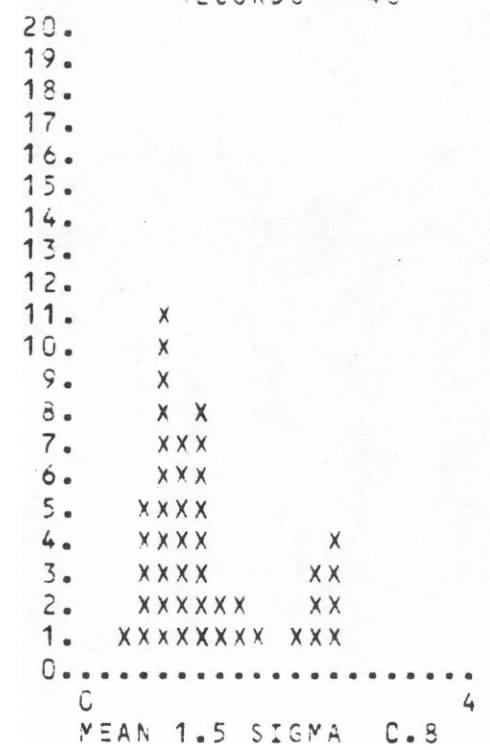
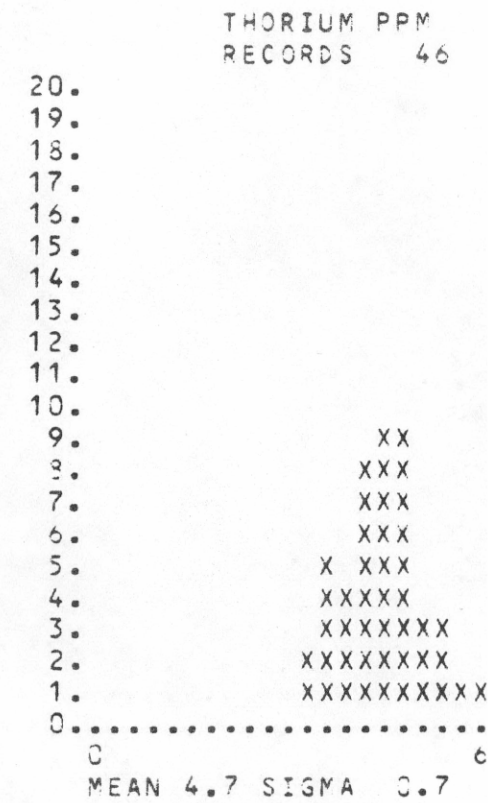
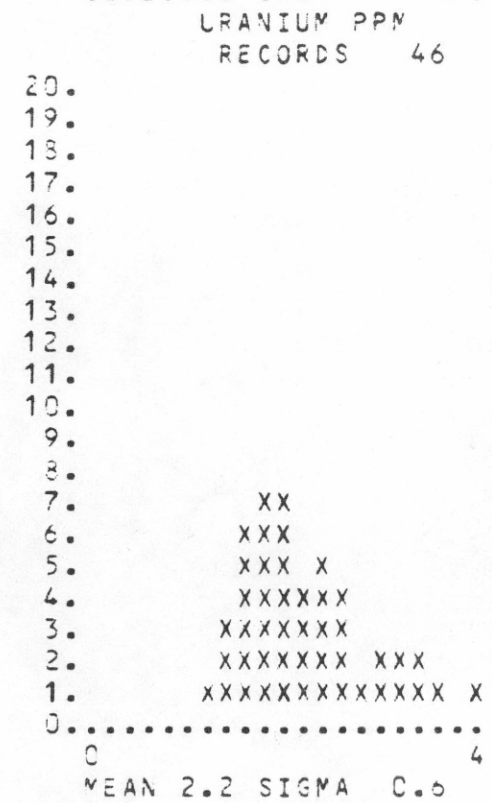
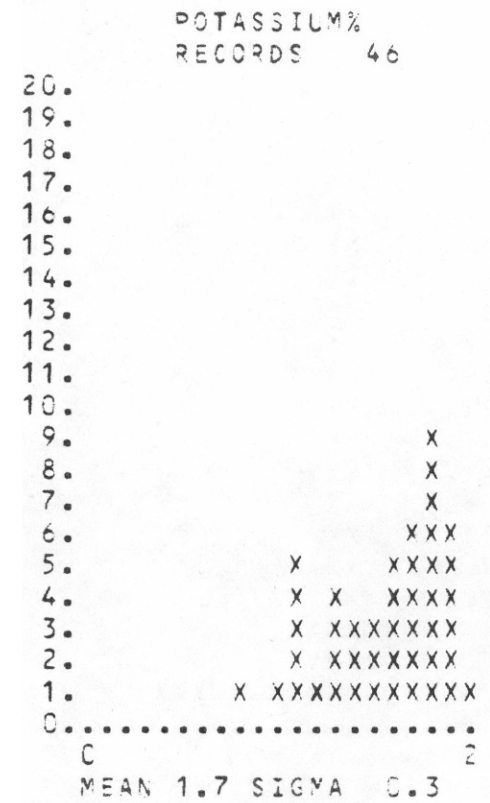
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT 32



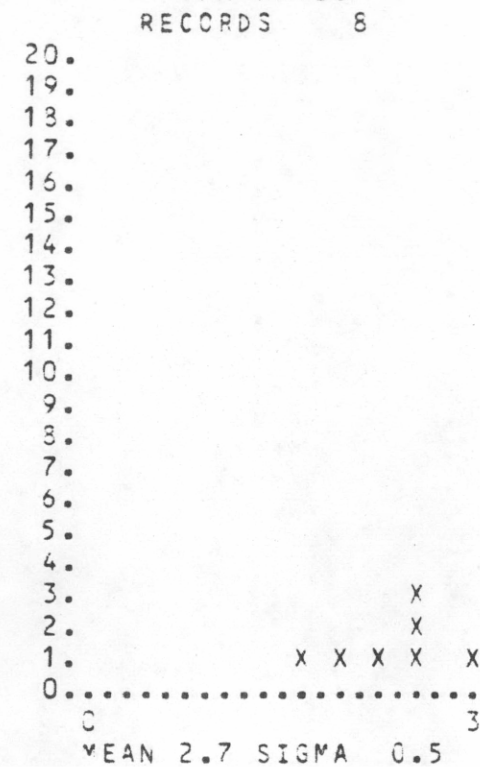
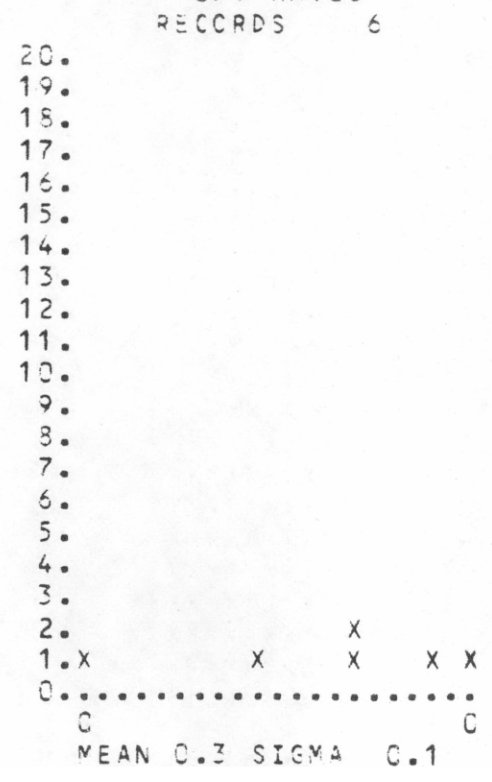
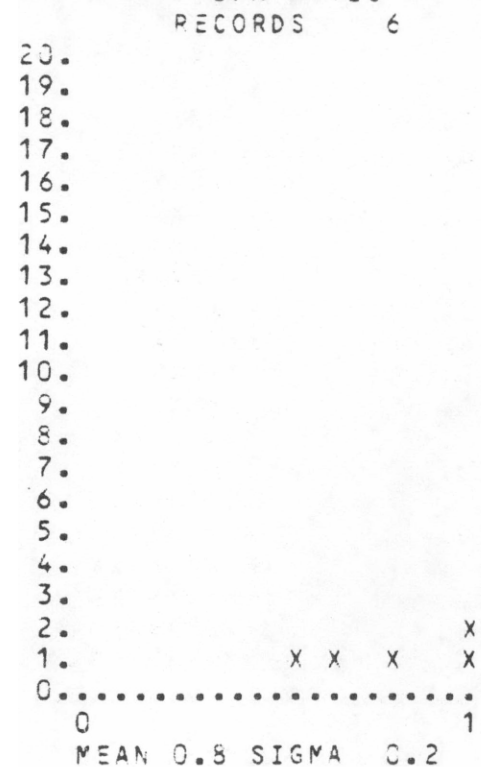
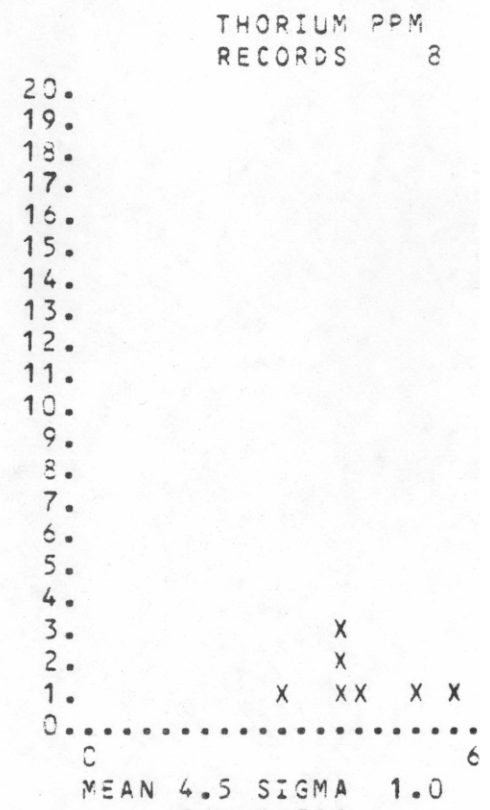
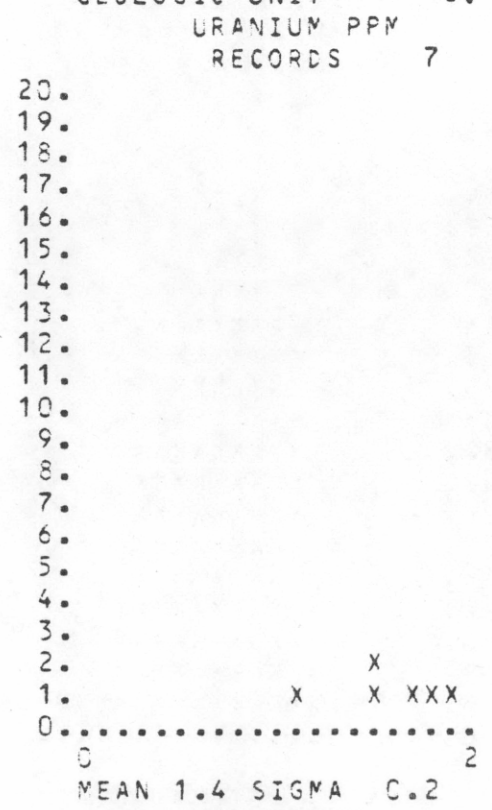
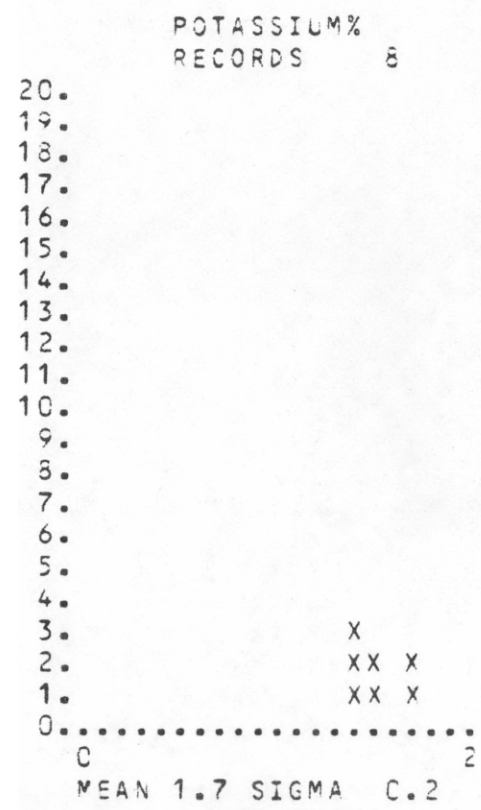
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT GF



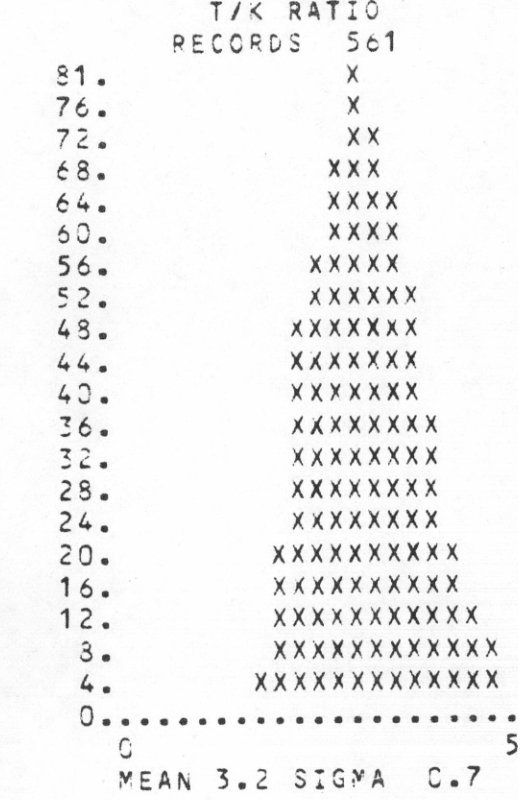
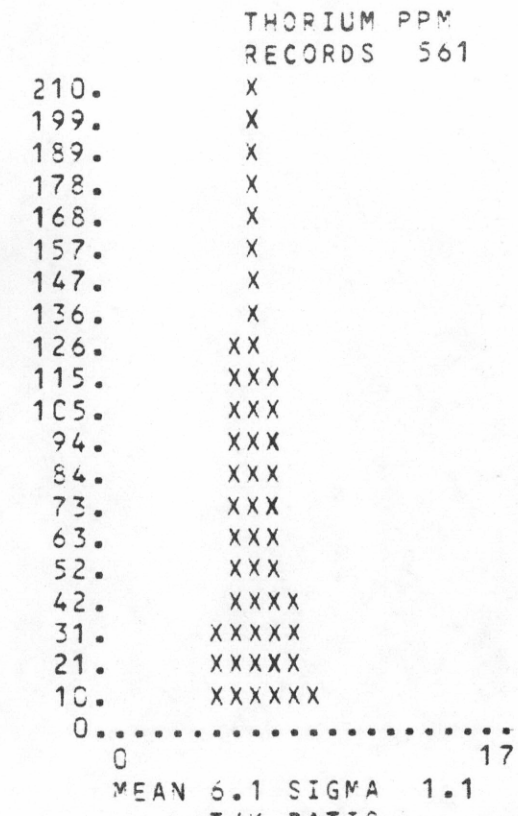
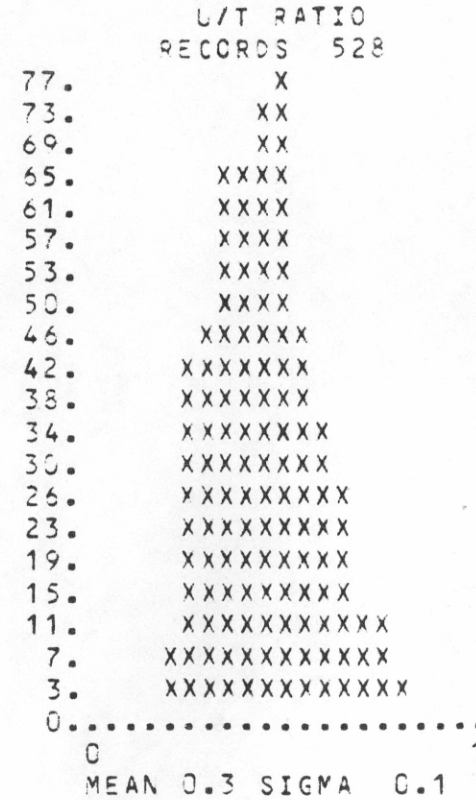
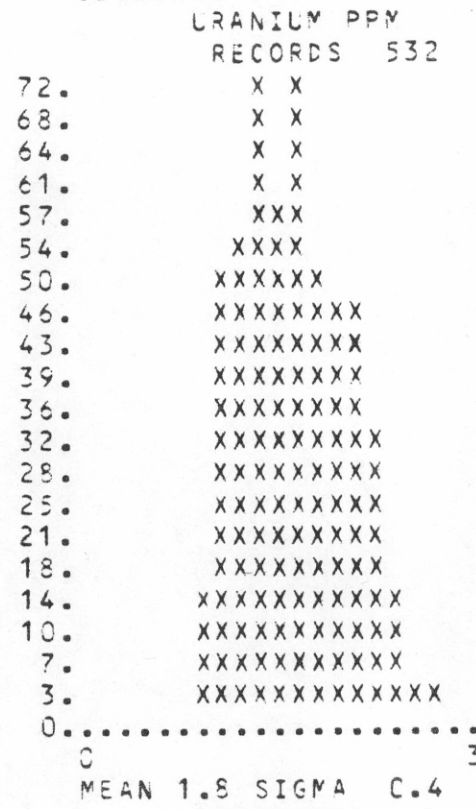
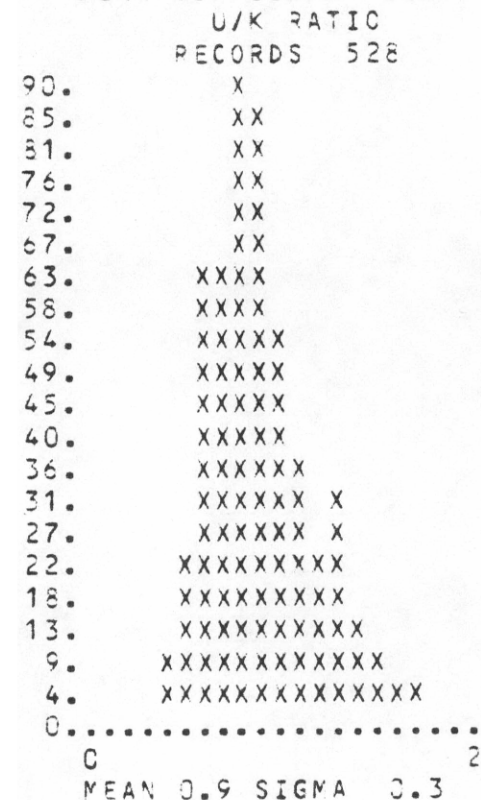
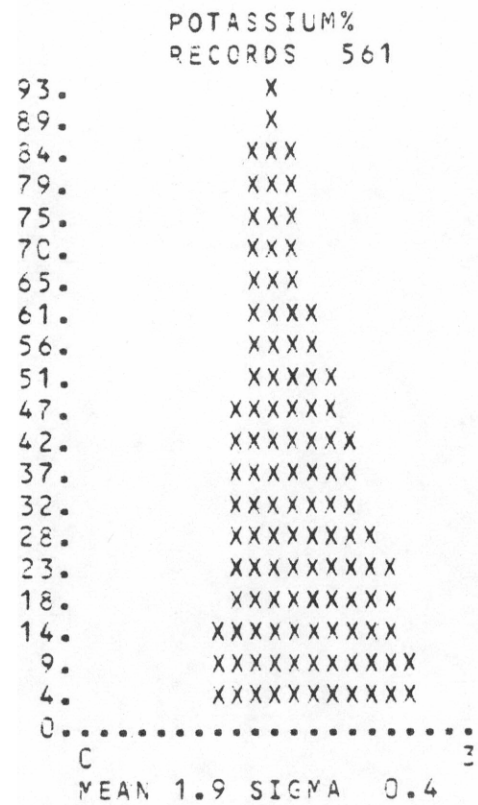
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT QAO



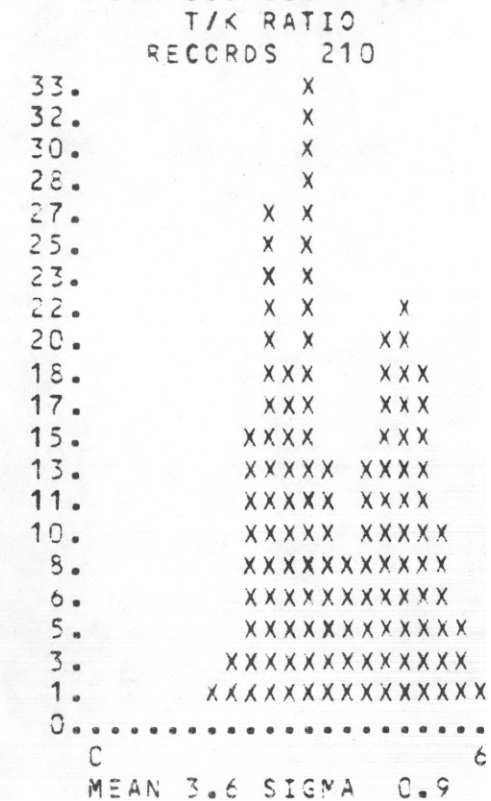
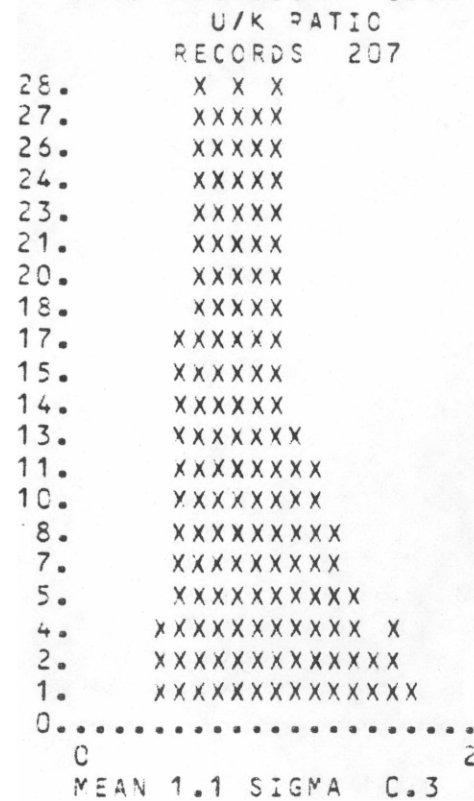
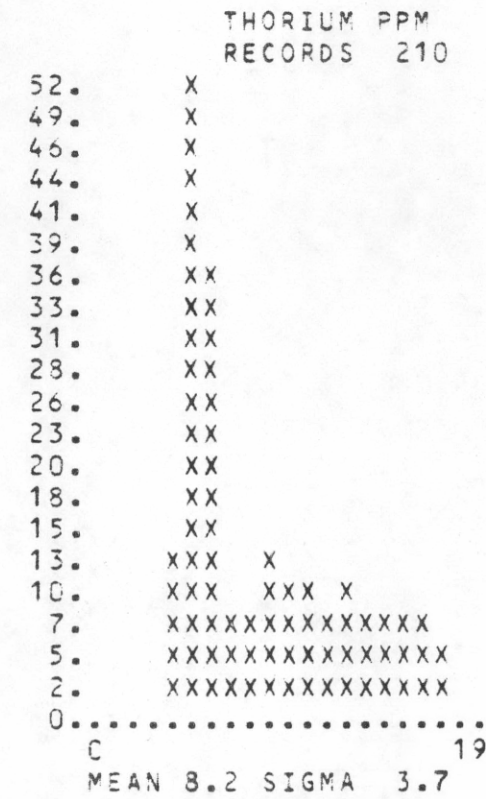
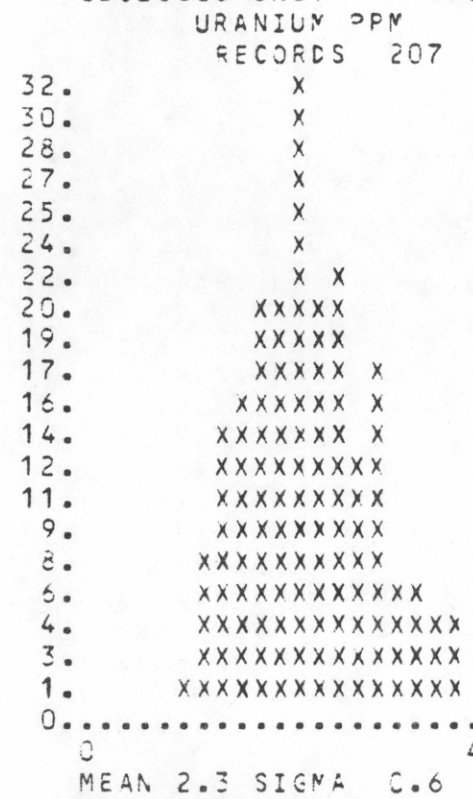
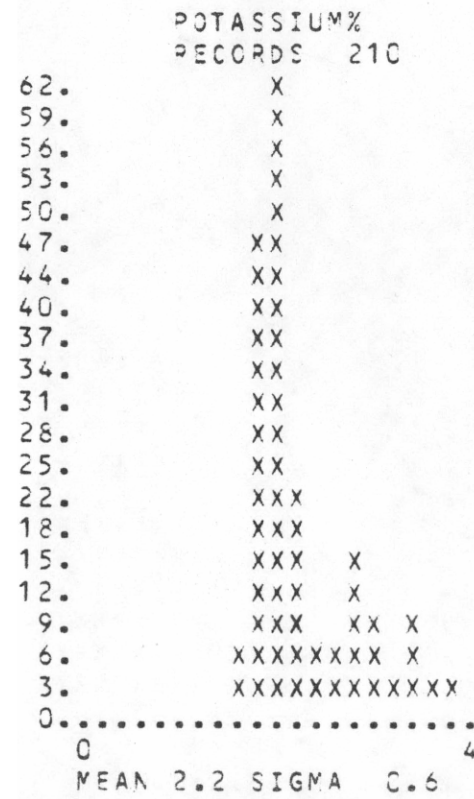
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT QV



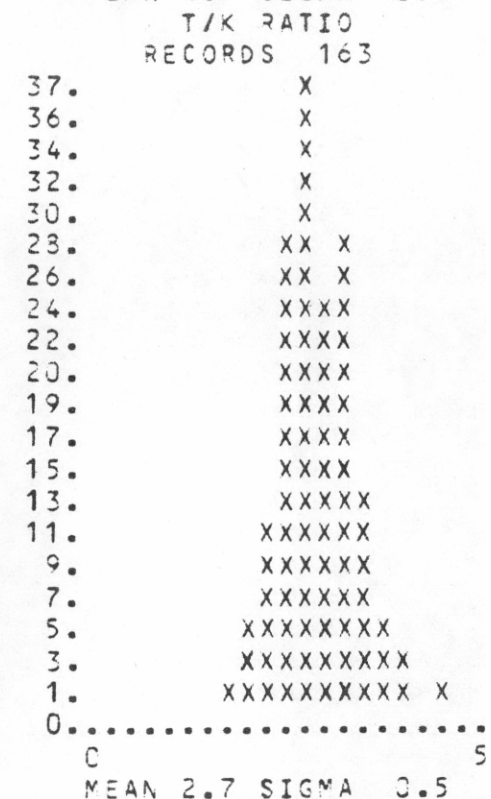
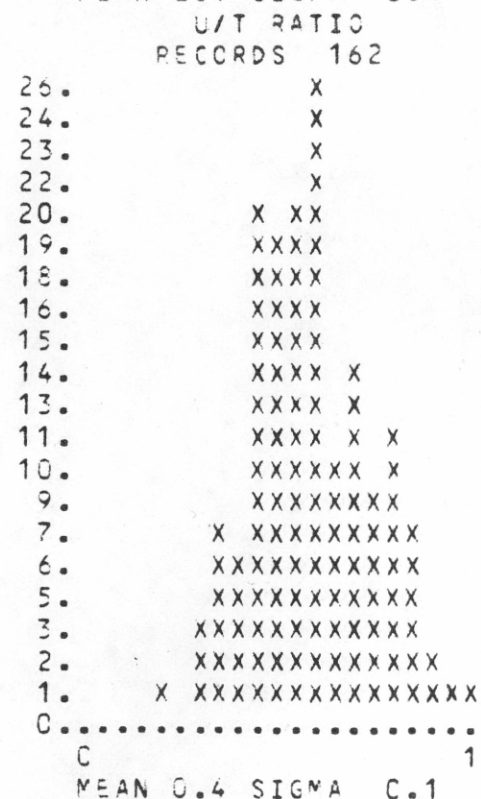
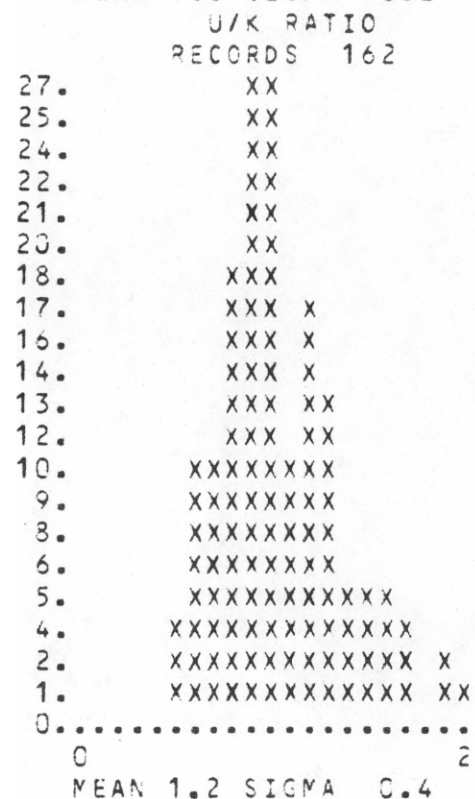
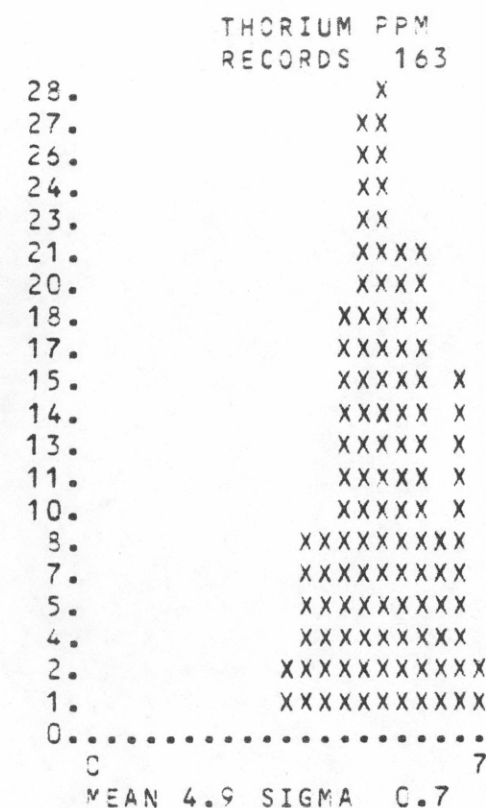
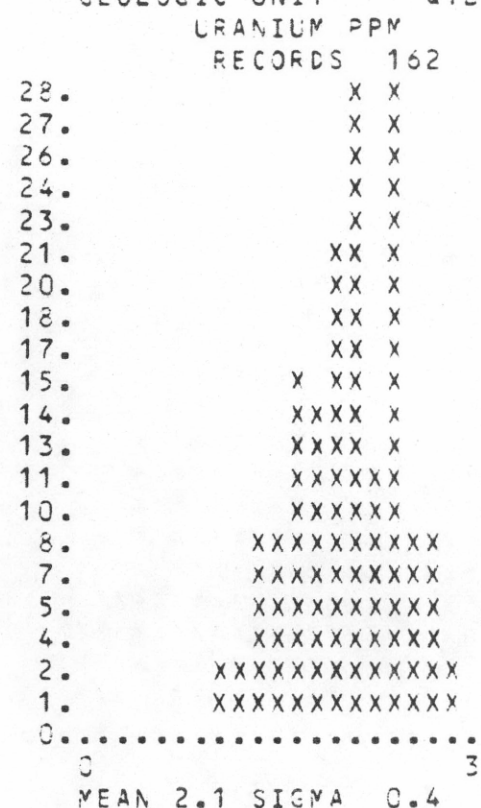
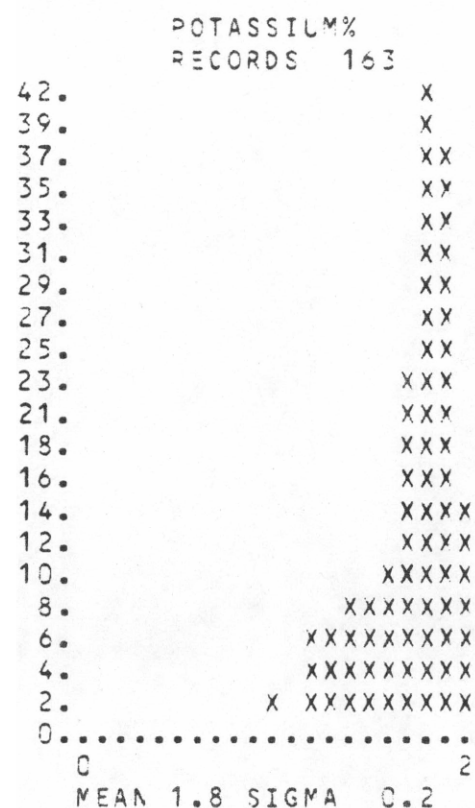
TEXAS-NEW MEXICO-EL PASO NH 13-1 GLADRANGLE
GEOLOGIC UNIT Q2A



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT GTG



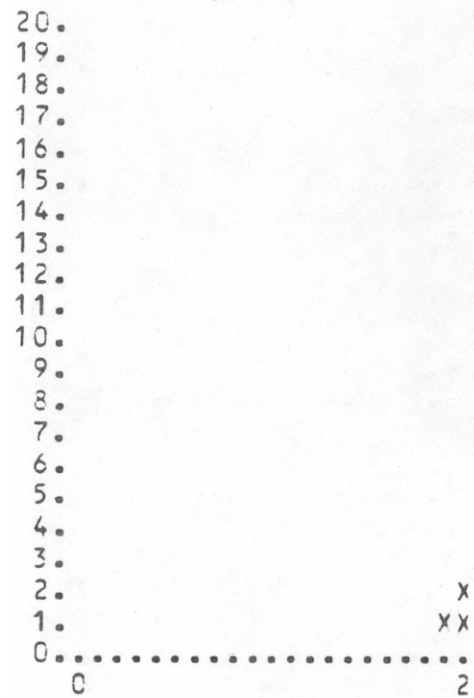
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT QTZ



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

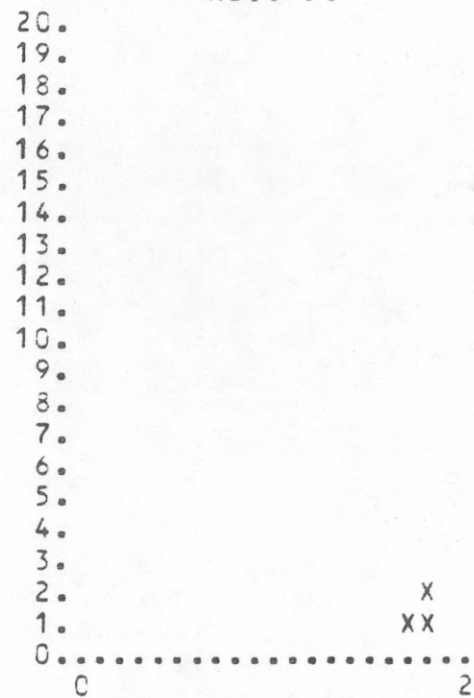
GEOLOGIC UNIT QTEA

POTASSIUM%
RECORDS 4



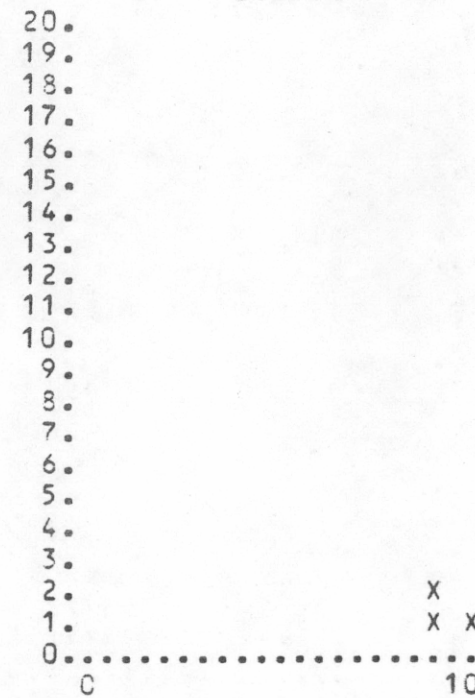
MEAN 2.1 SIGMA 0.1
U/K RATIO
RECORDS 4

URANIUM PPM
RECORDS 4

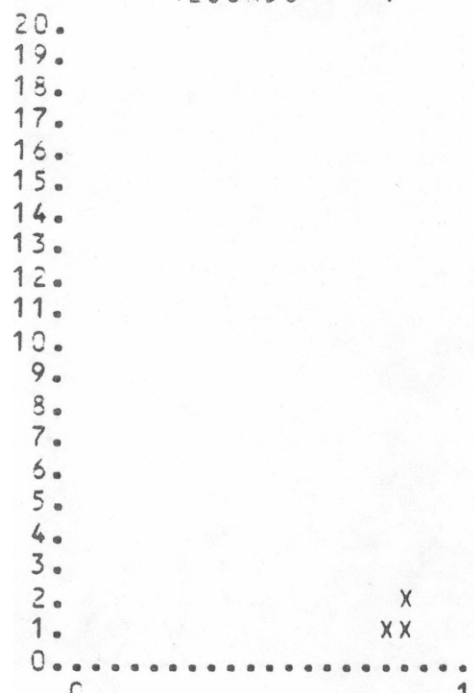


MEAN 2.2 SIGMA 0.2
U/T RATIO
RECORDS 4

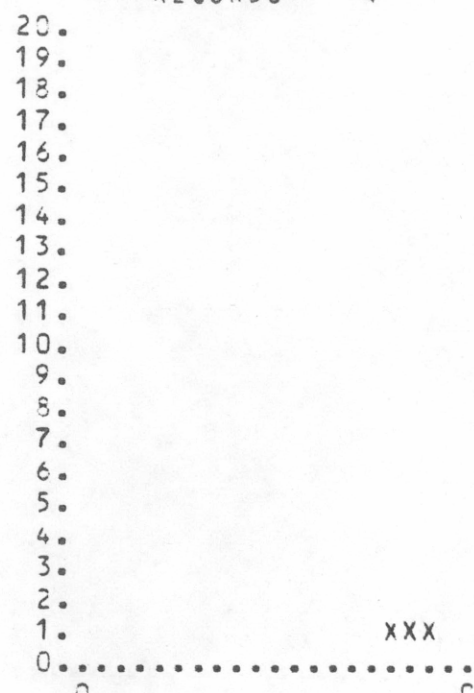
THORIUM PPM
RECORDS 4



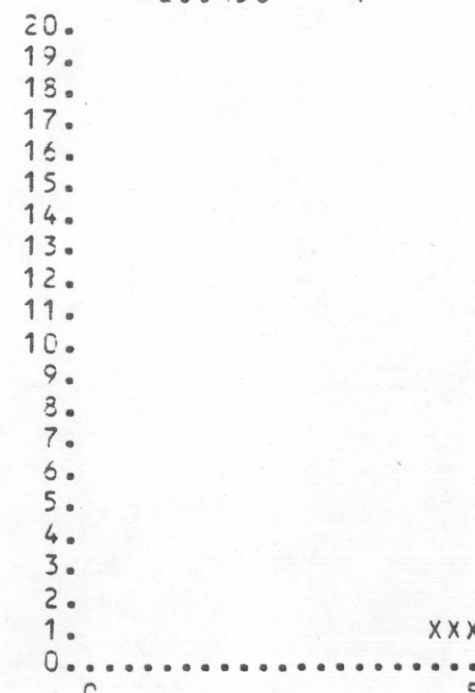
MEAN 9.6 SIGMA 0.5
T/K RATIO
RECORDS 4



MEAN 1.1 SIGMA 0.1

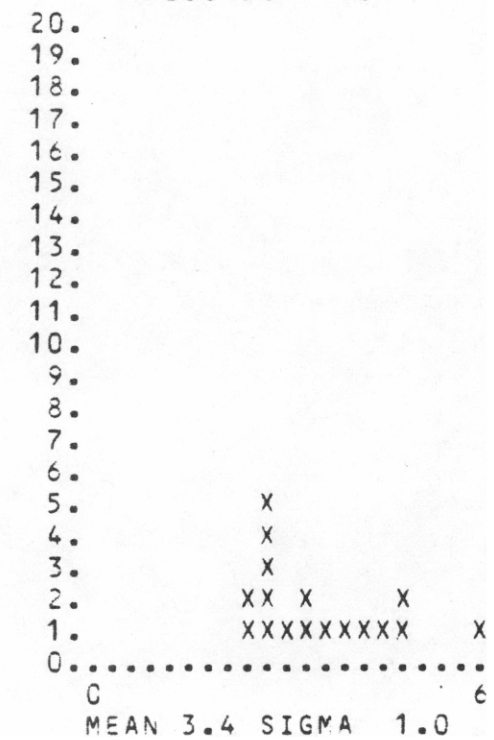
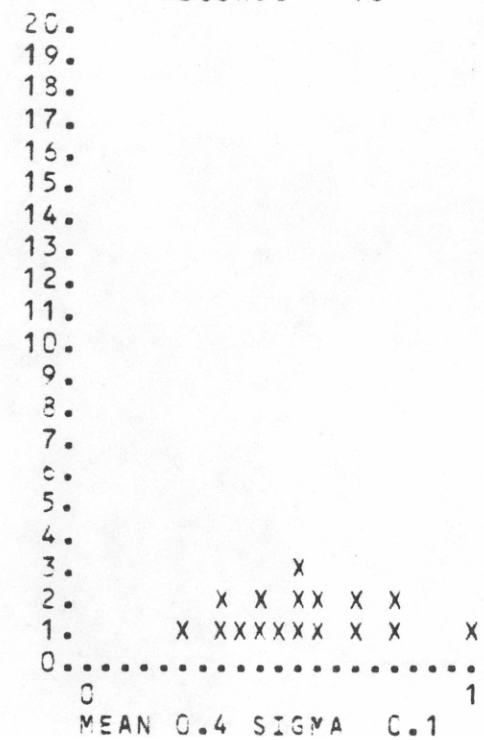
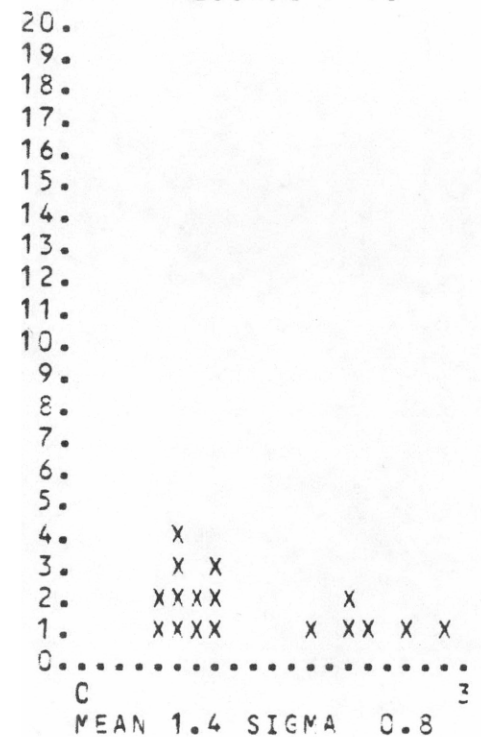
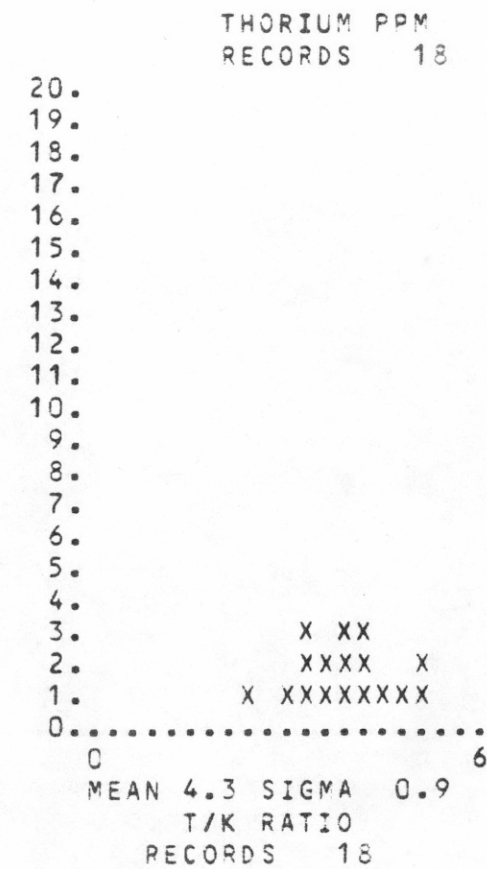
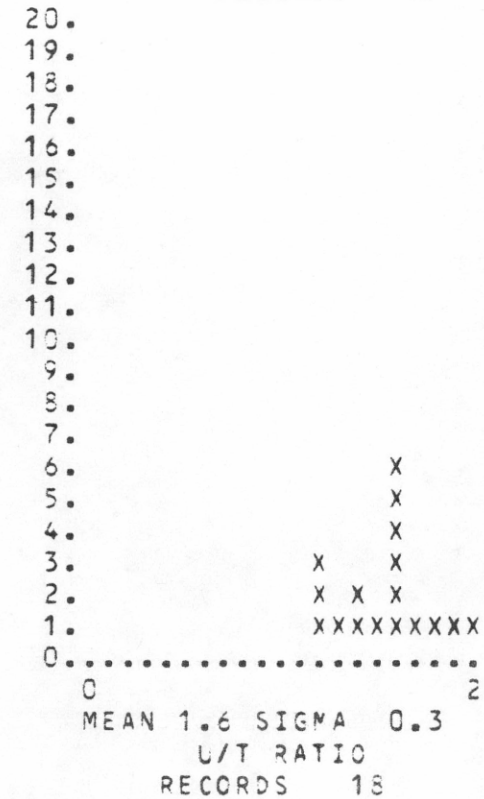
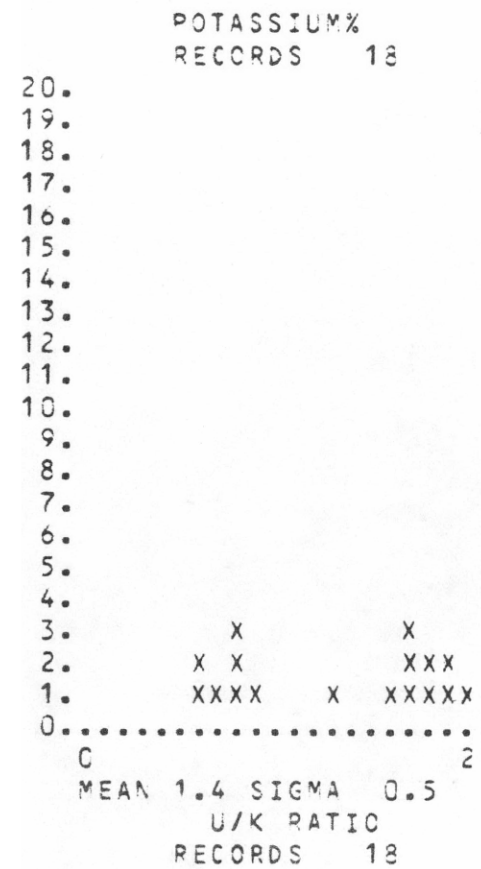


MEAN 0.2 SIGMA 0.0

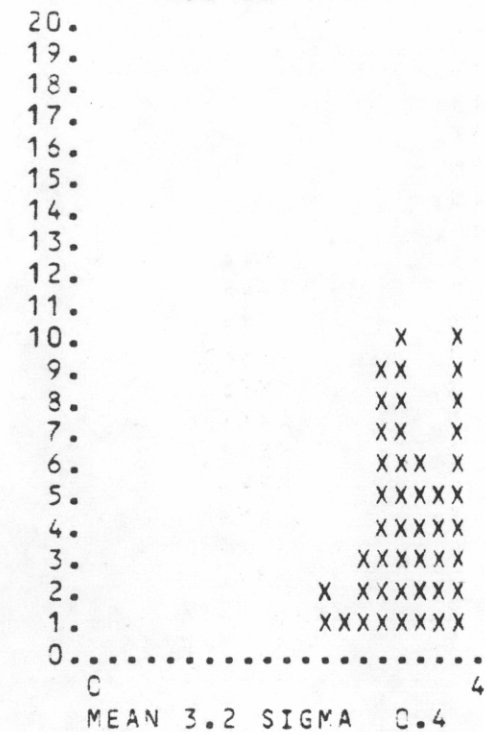
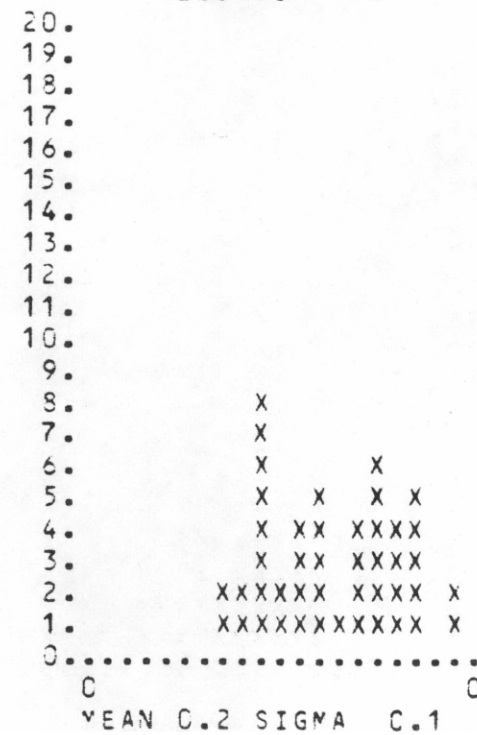
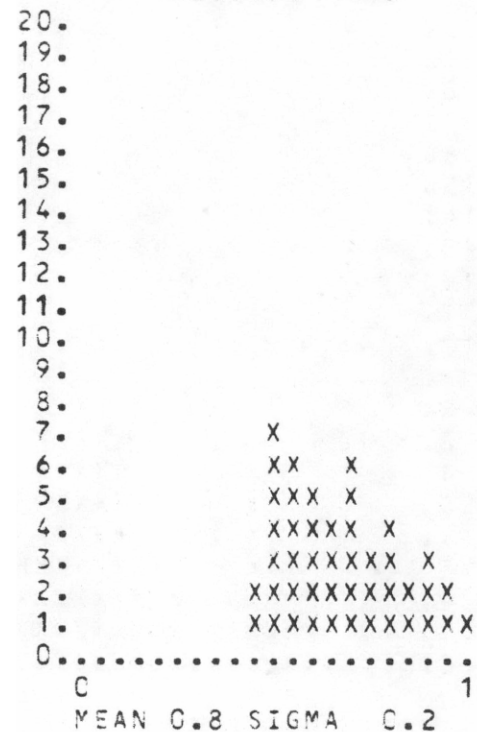
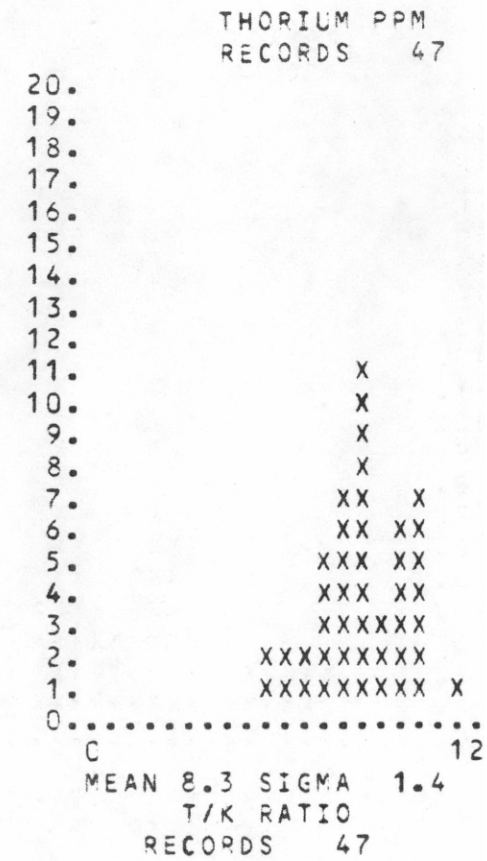
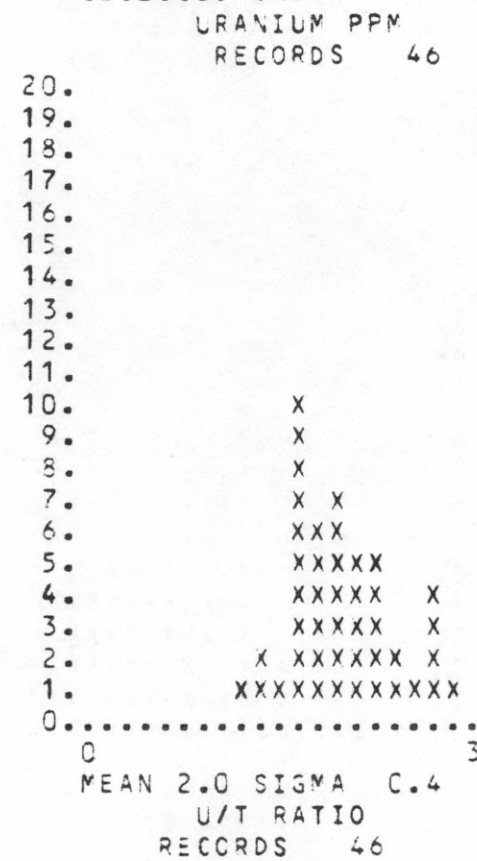
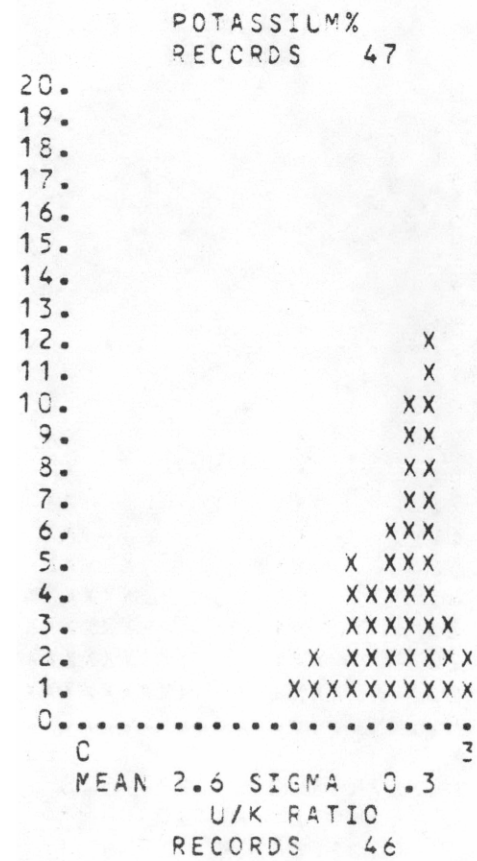


MEAN 4.6 SIGMA 0.2

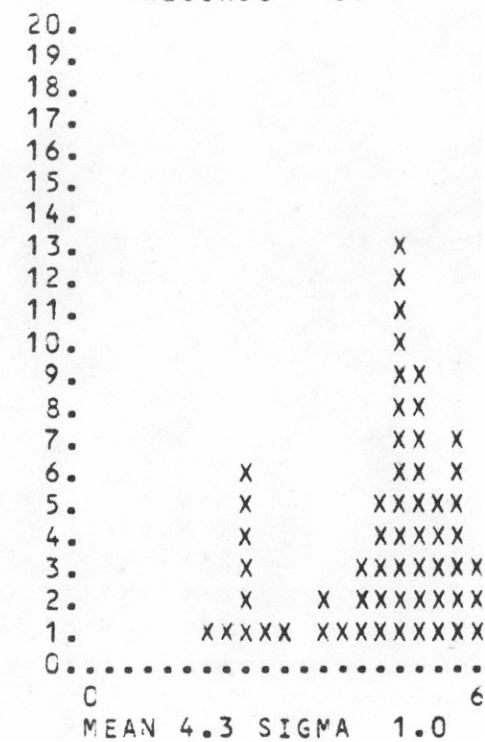
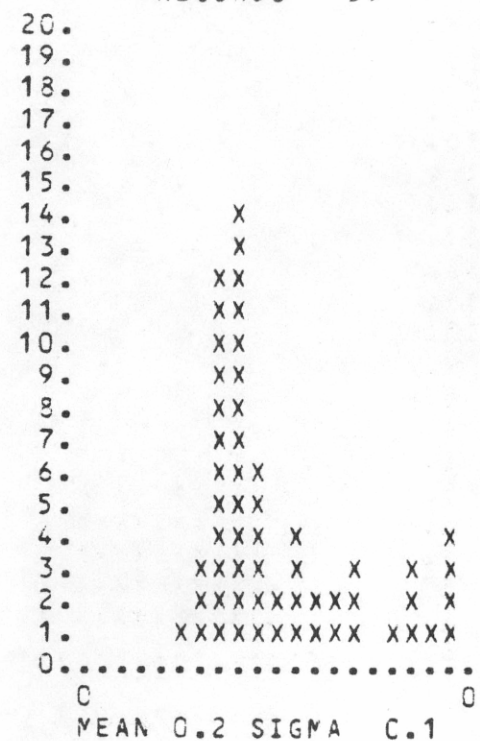
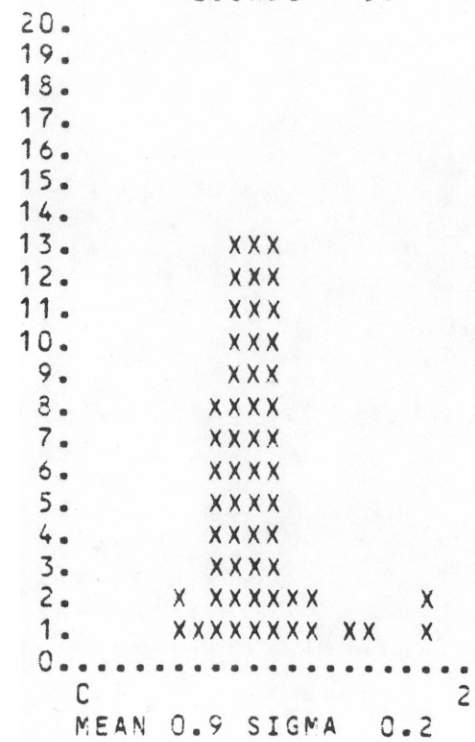
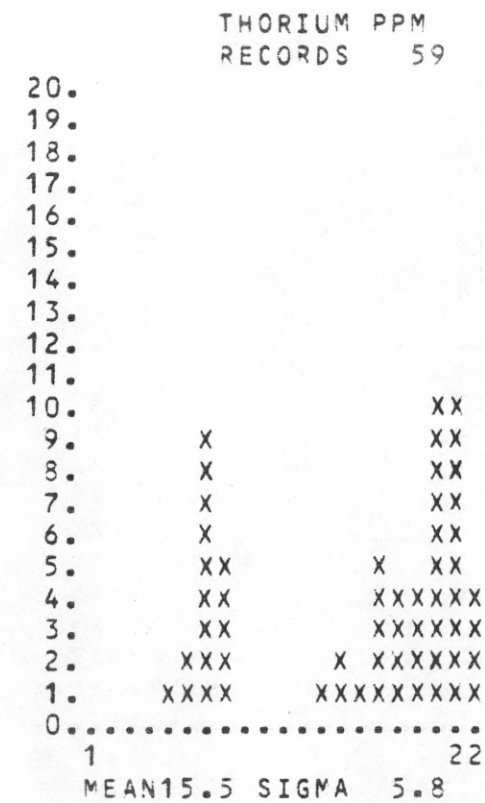
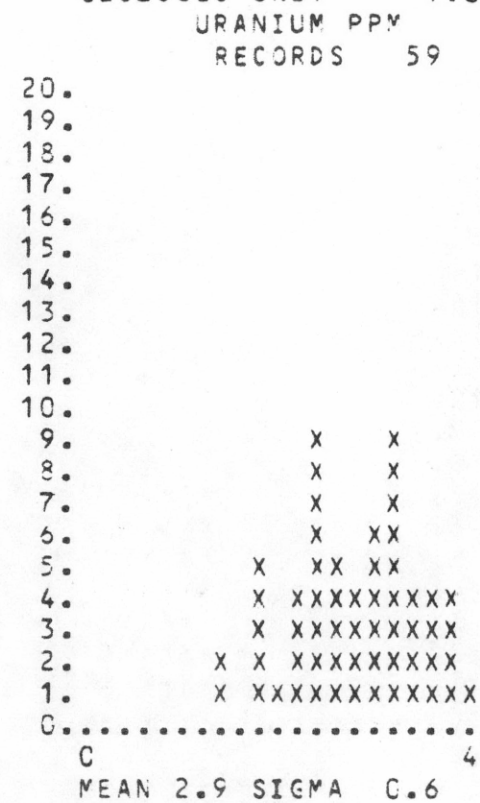
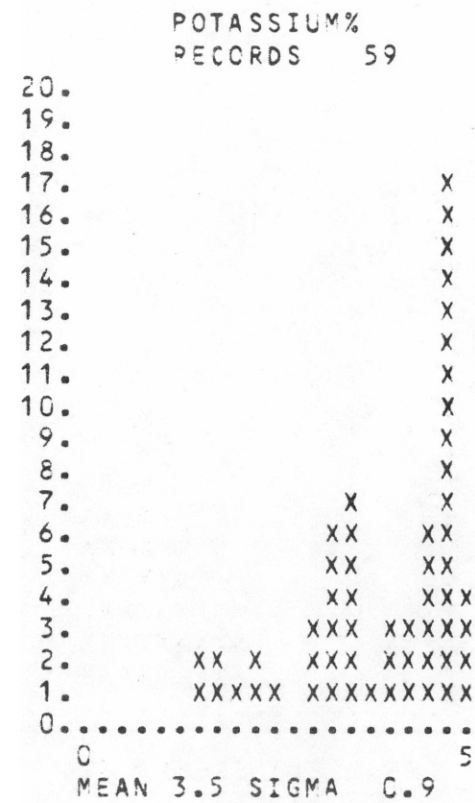
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 GEOLOGIC UNIT QTS
 URANIUM PPM
 RECORDS 18



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT TV



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 GEOLOGIC UNIT TVU



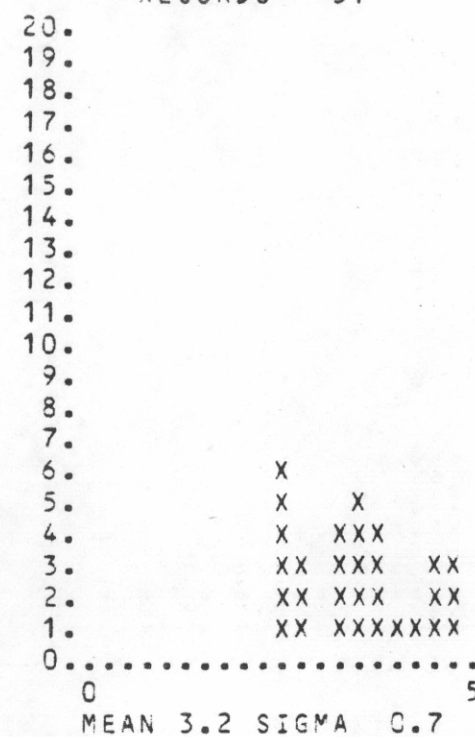
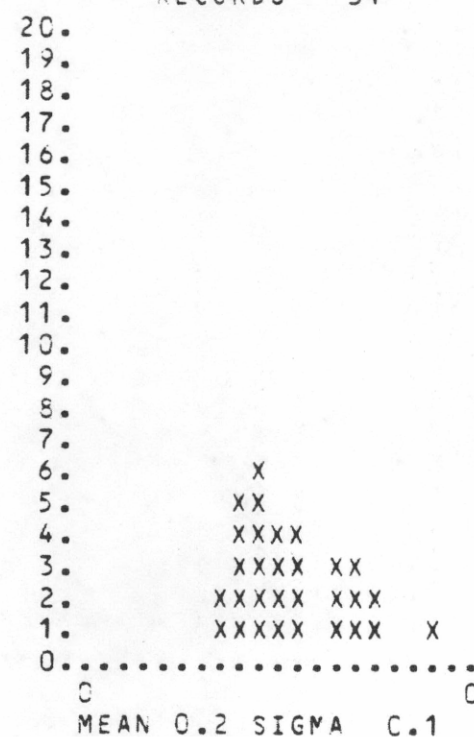
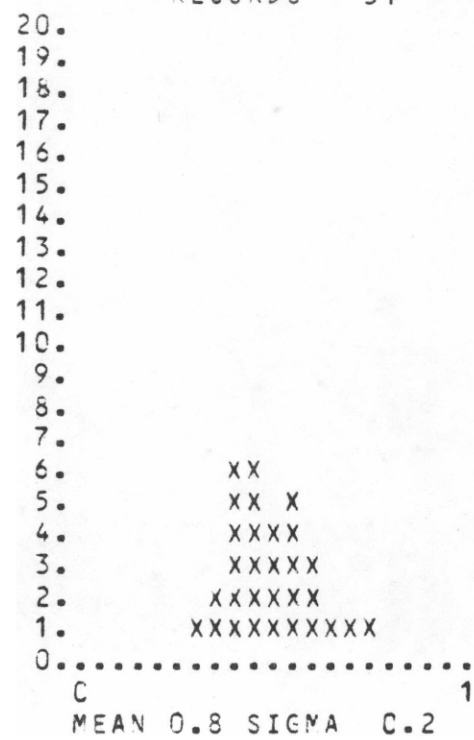
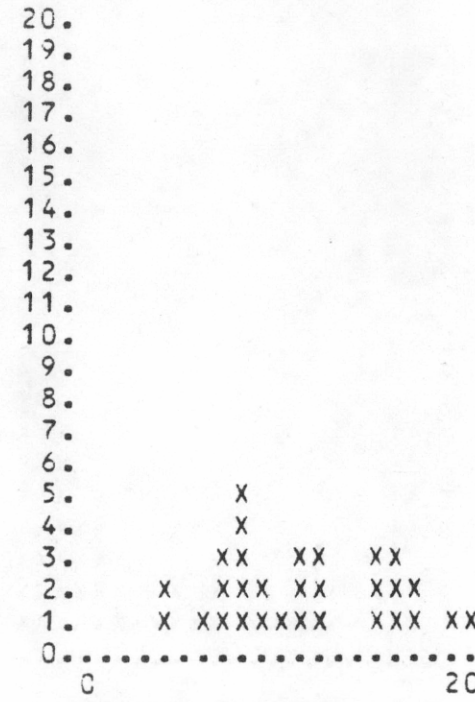
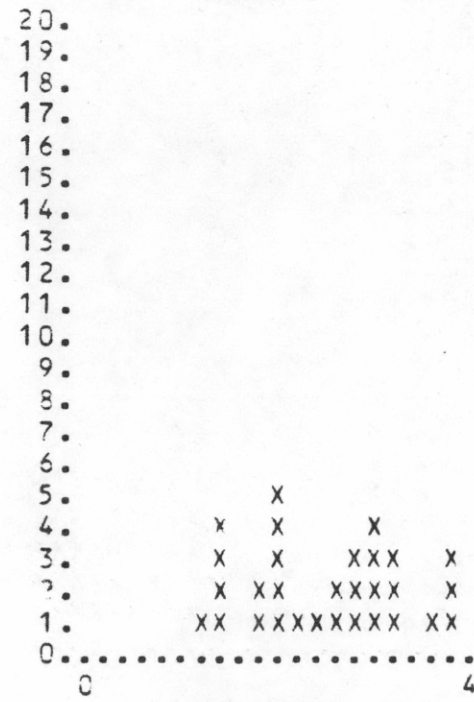
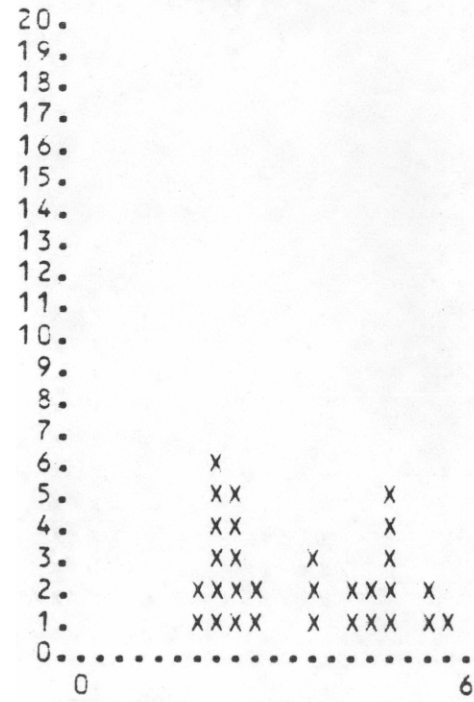
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

GEOLOGIC UNIT TVL

POTASSIUM%
RECORDS 31

URANIUM PPM
RECORDS 31

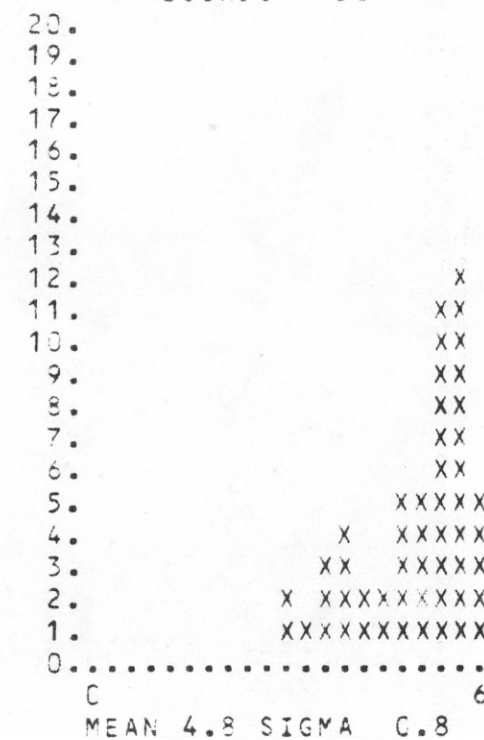
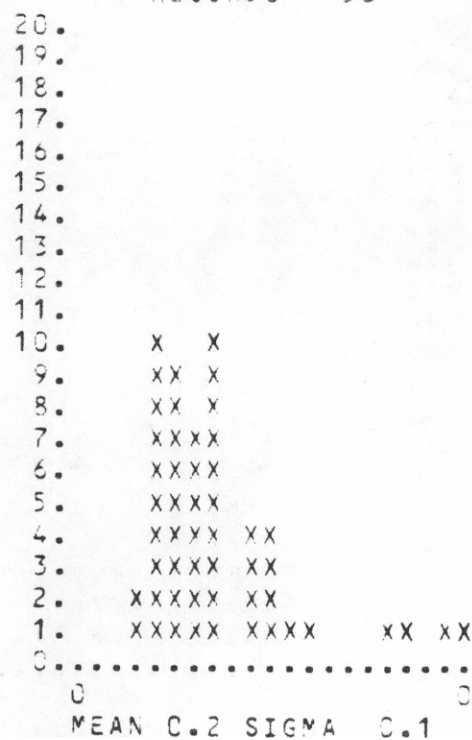
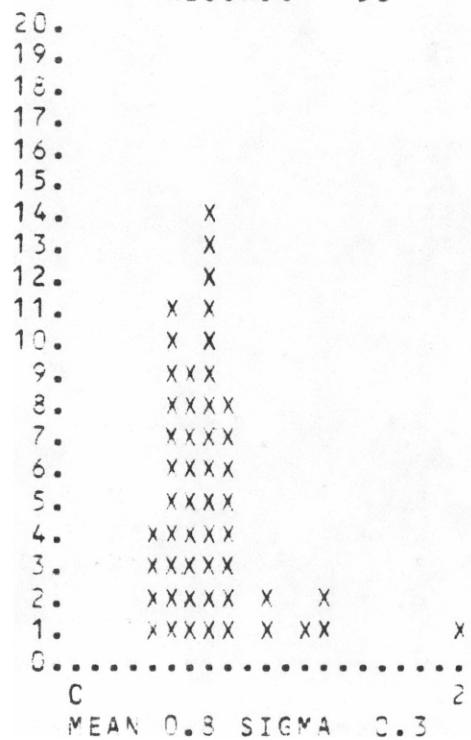
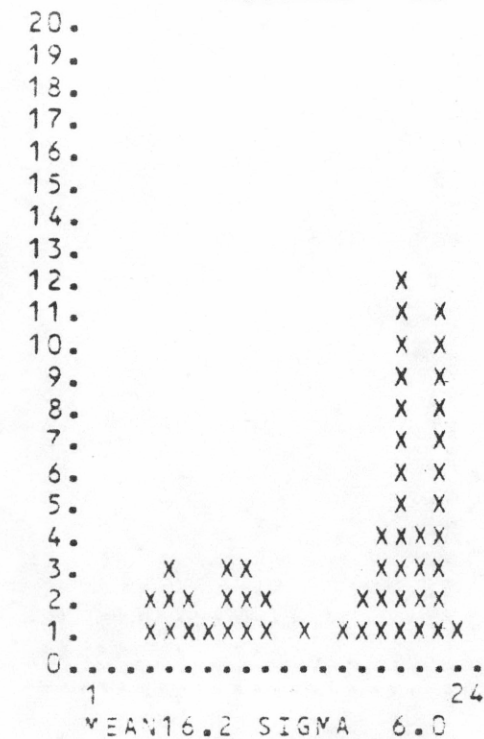
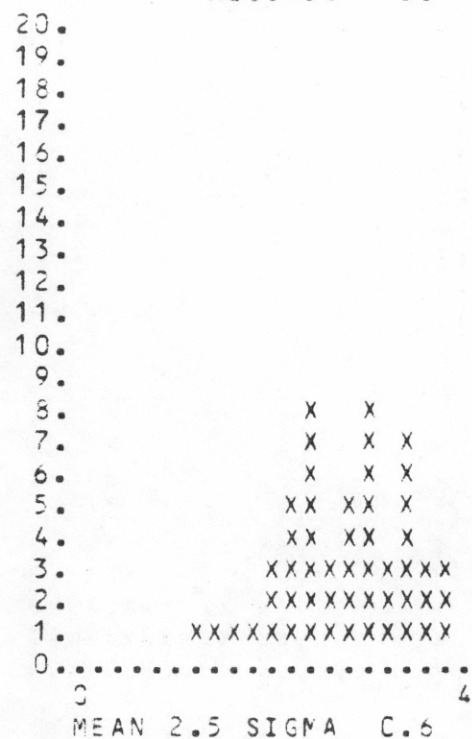
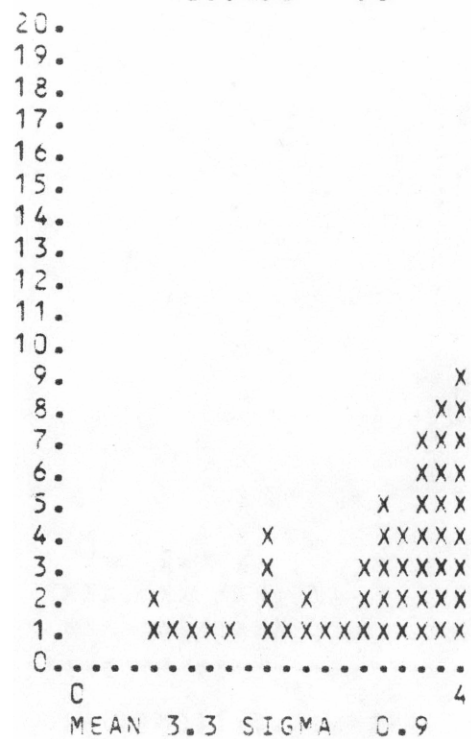
THORIUM PPM
RECORDS 31



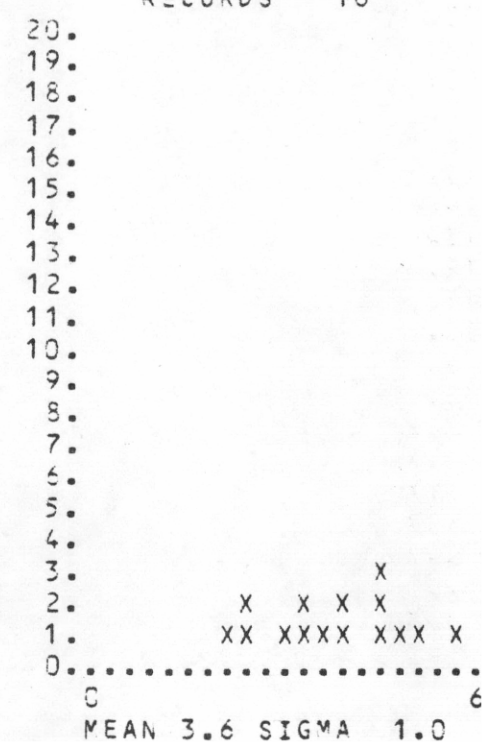
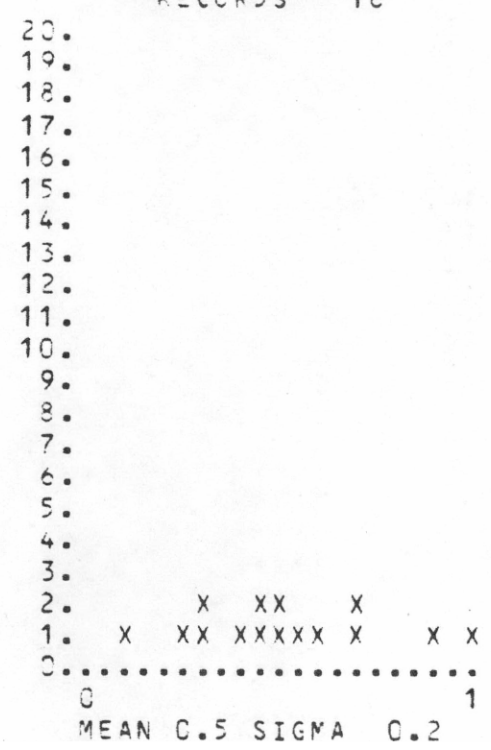
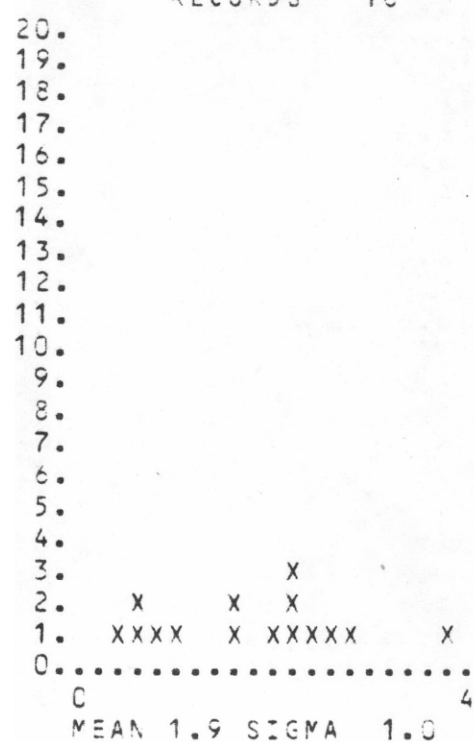
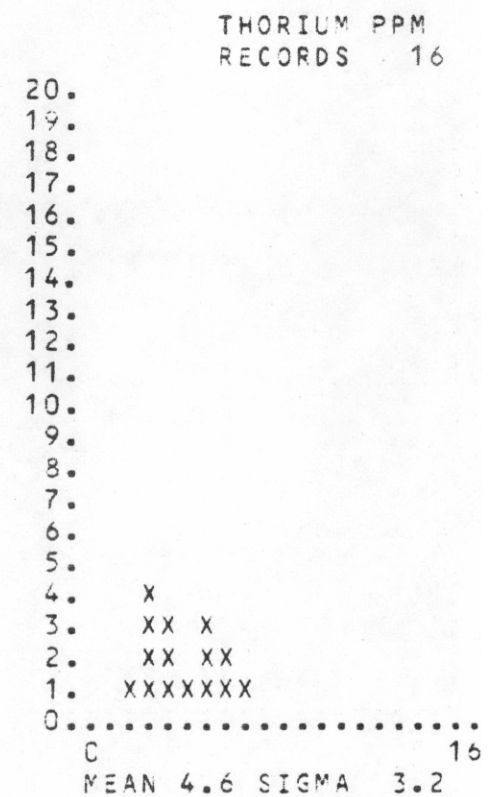
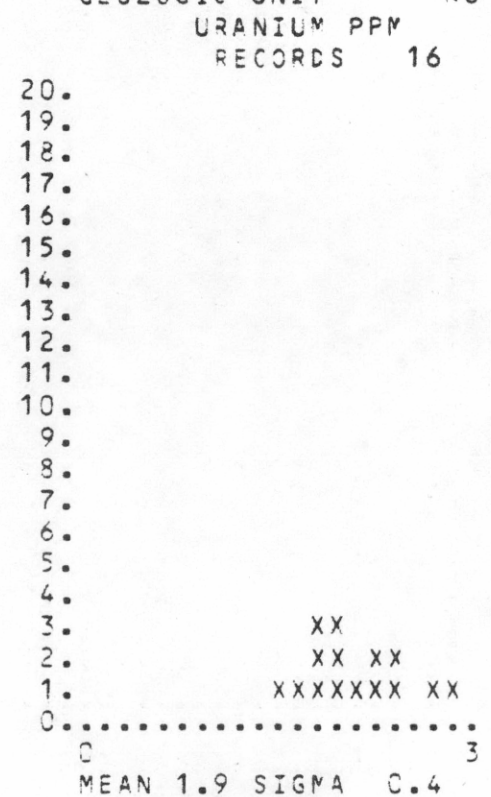
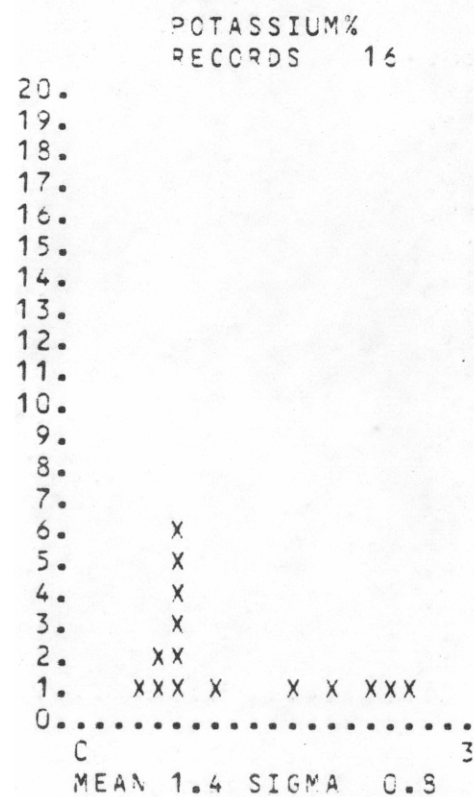
TEXAS-NEW MEXICO-EL PASO NH 13-1 GLADRANGLE
 GEOLOGIC UNIT TKI
 URANIUM PPM
 RECORDS 53

POTASSIUM%
 RECORDS 53

THORIUM PPM
 RECORDS 53



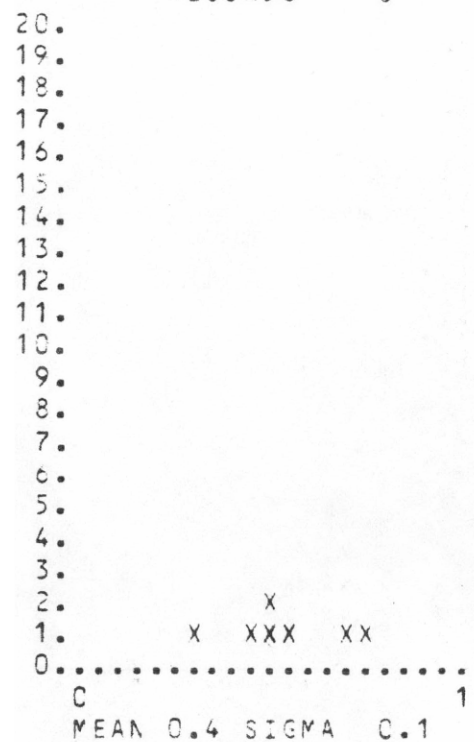
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT KU



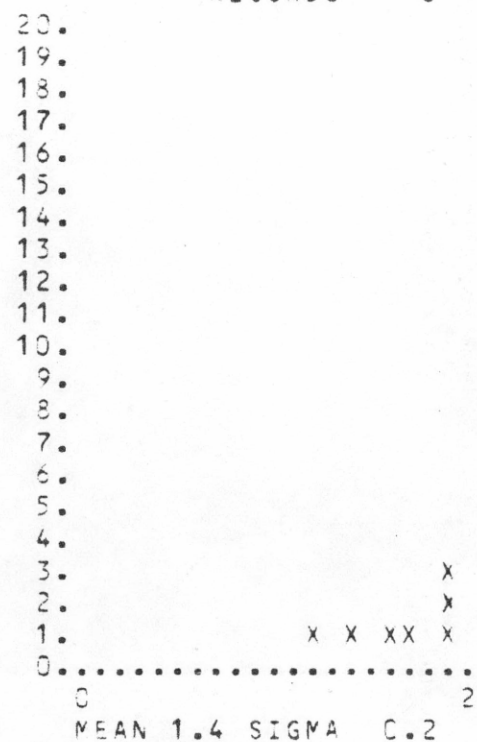
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

GEOLOGIC UNIT PAL

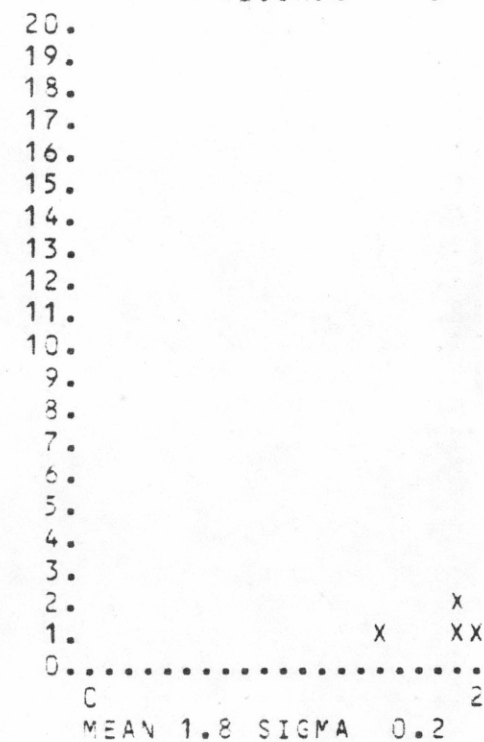
POTASSIUM%
RECORDS 8



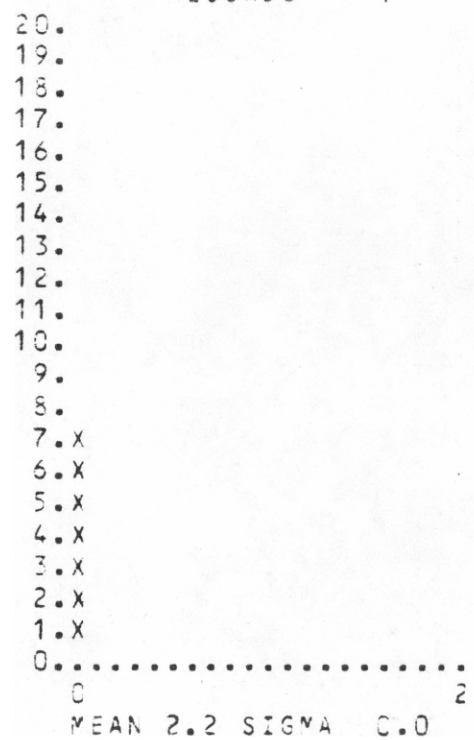
URANIUM PPM
RECORDS 8



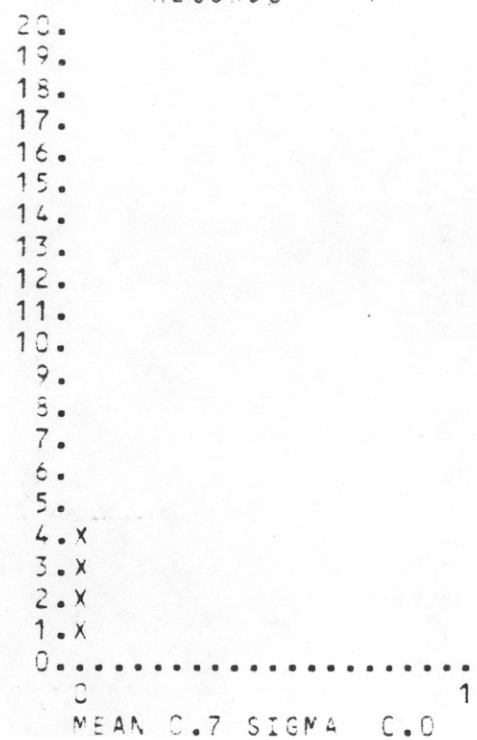
THORIUM PPM
RECORDS 5



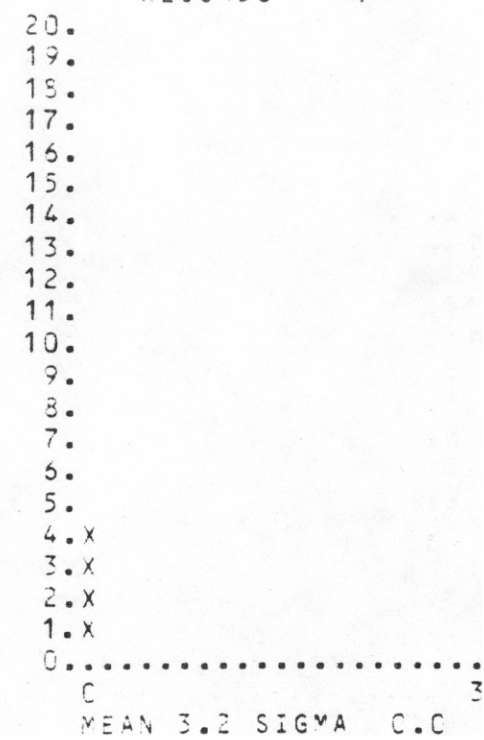
RECORDS 1



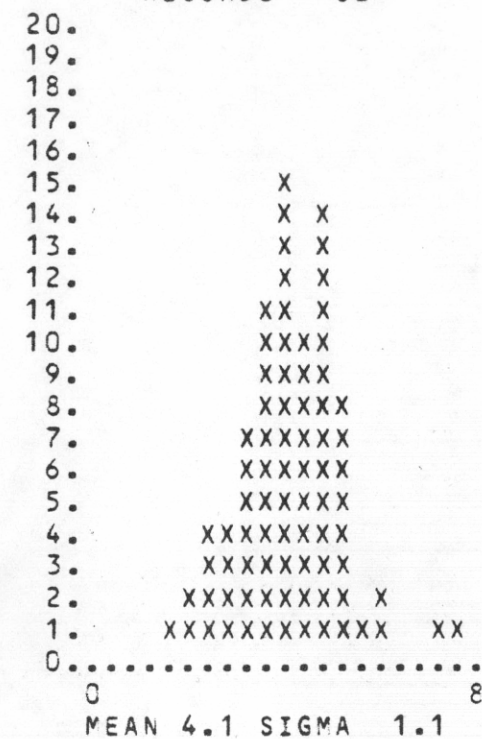
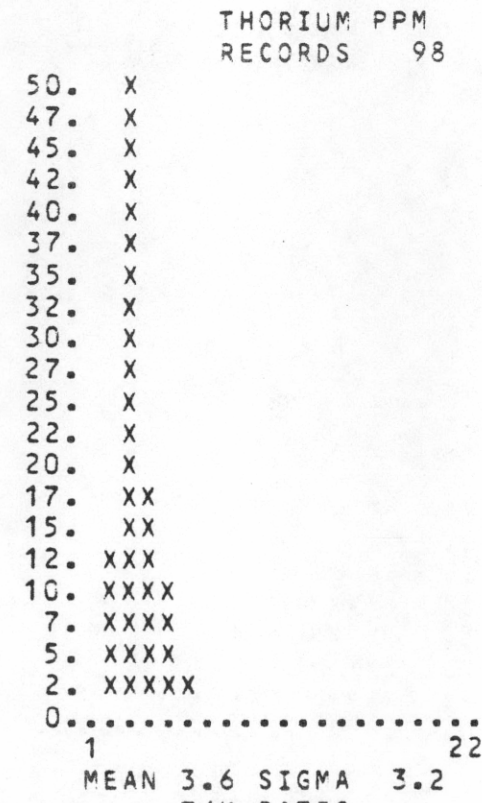
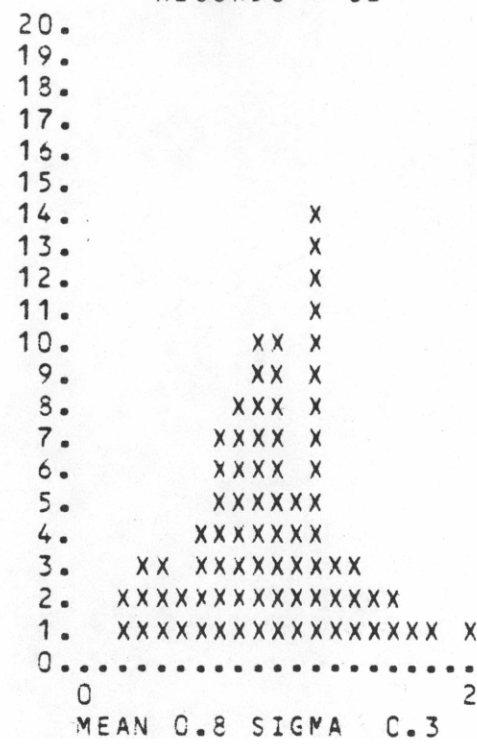
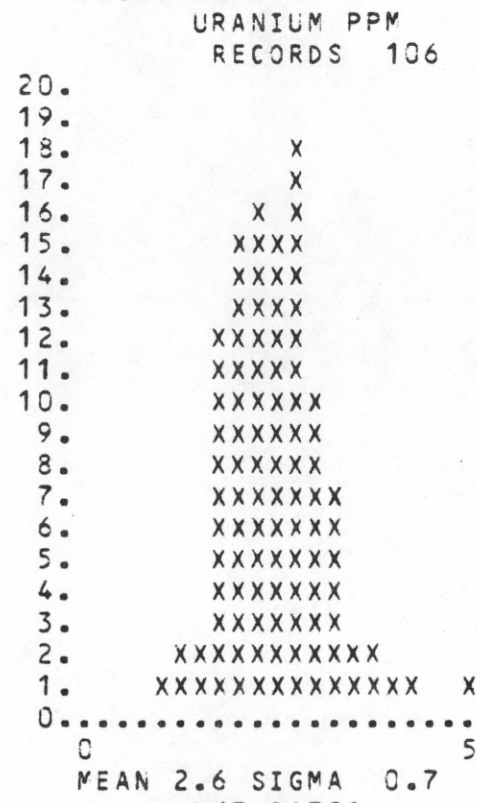
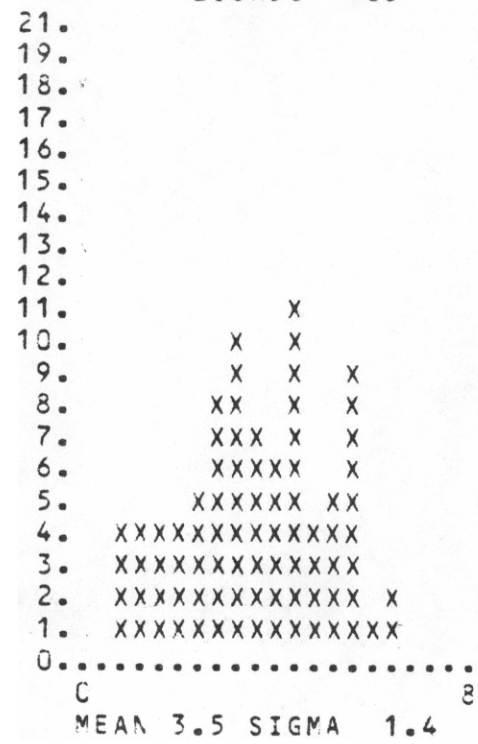
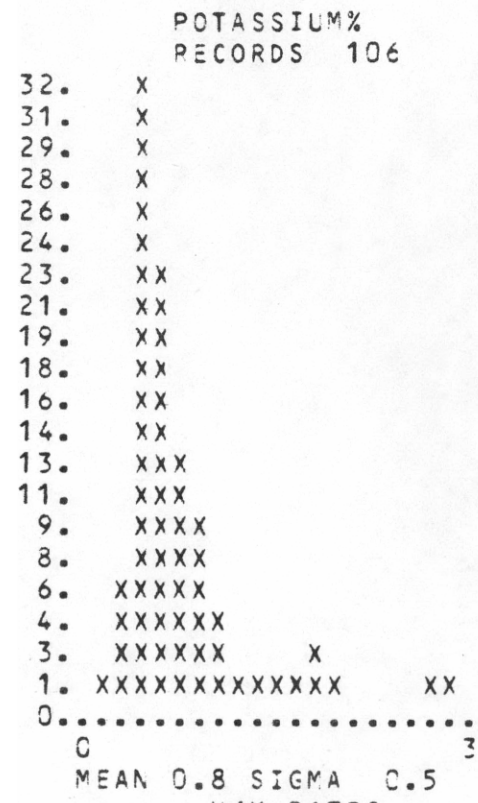
RECORDS 1



RECORDS 1



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT FH



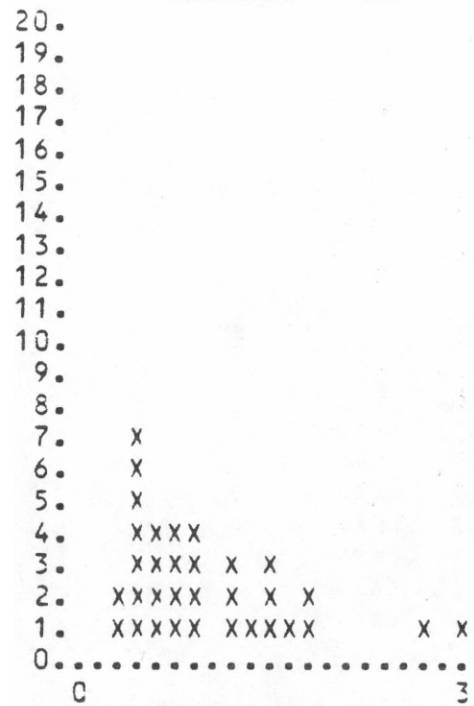
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

GEOLOGIC UNIT PM

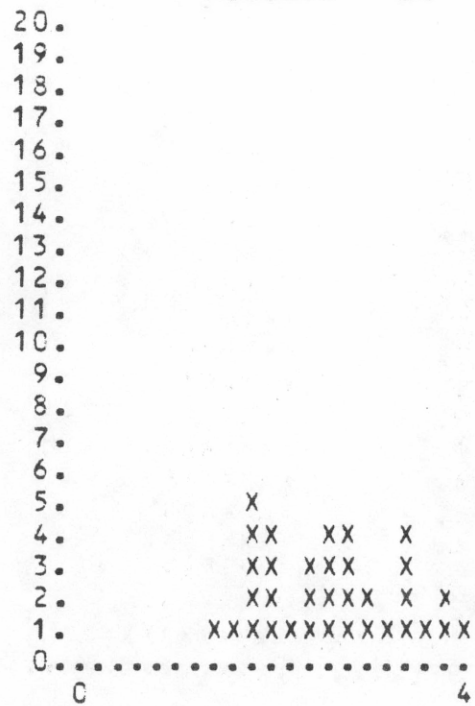
POTASSIUM%
RECORDS 34

URANIUM PPM
RECORDS 34

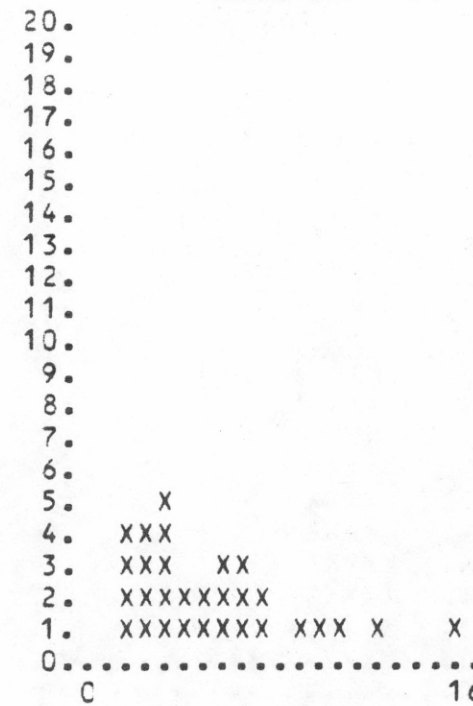
THORIUM PPM
RECORDS 31



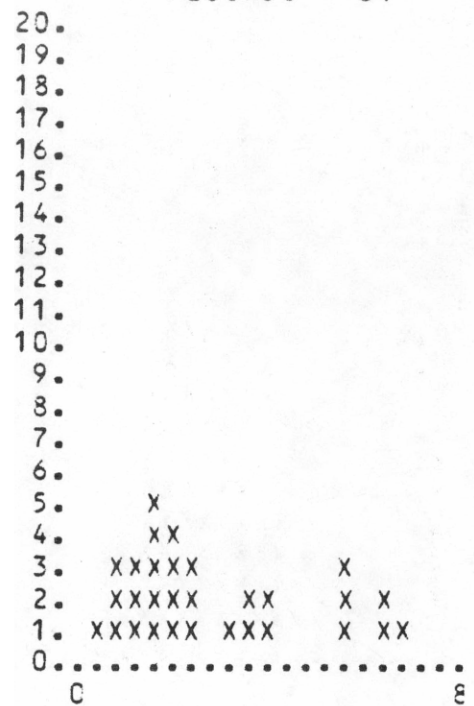
MEAN 1.1 SIGMA 0.7
U/K RATIO
RECORDS 31



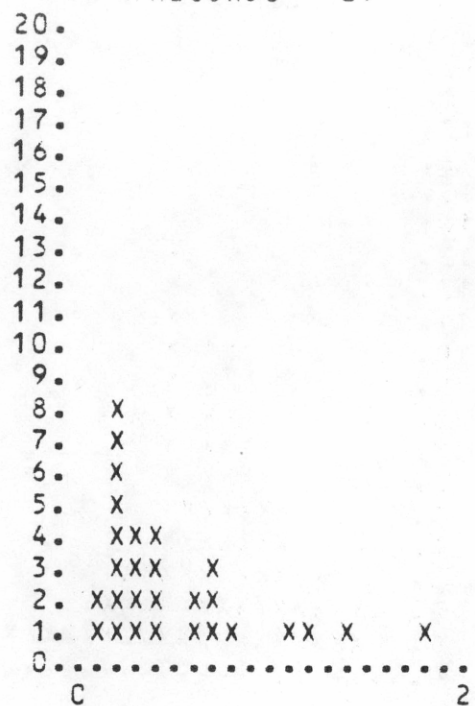
MEAN 2.6 SIGMA 0.7
L/T RATIO
RECORDS 29



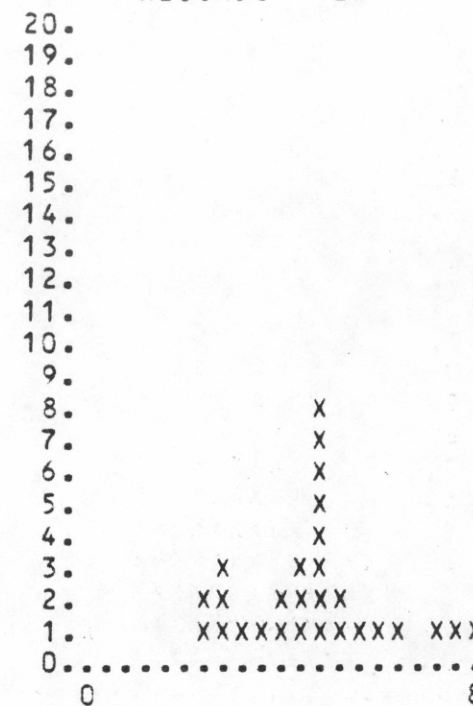
MEAN 5.6 SIGMA 3.6
T/K RATIO
RECORDS 29



MEAN 3.0 SIGMA 2.0



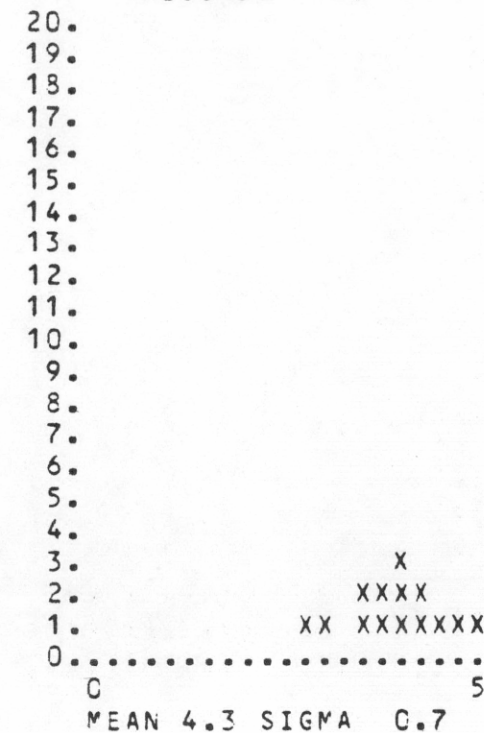
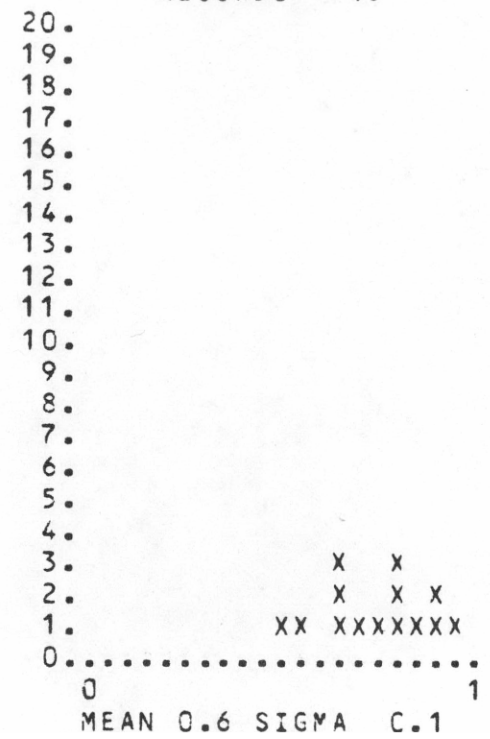
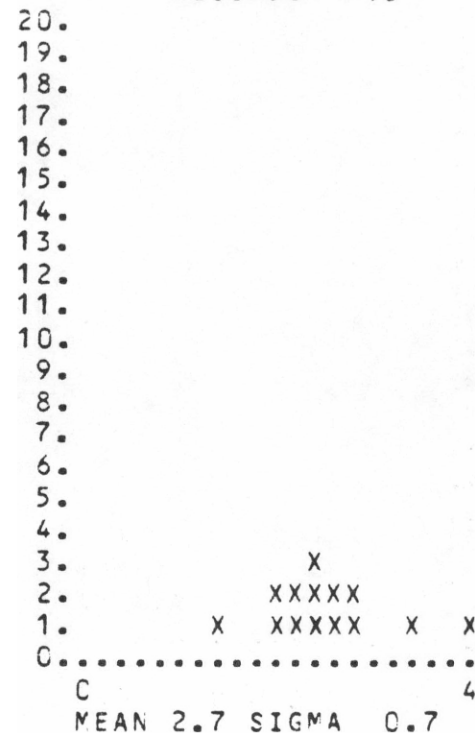
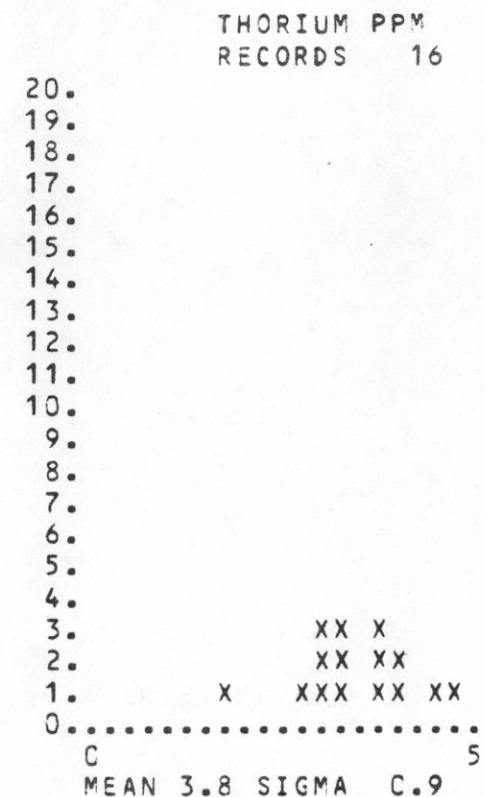
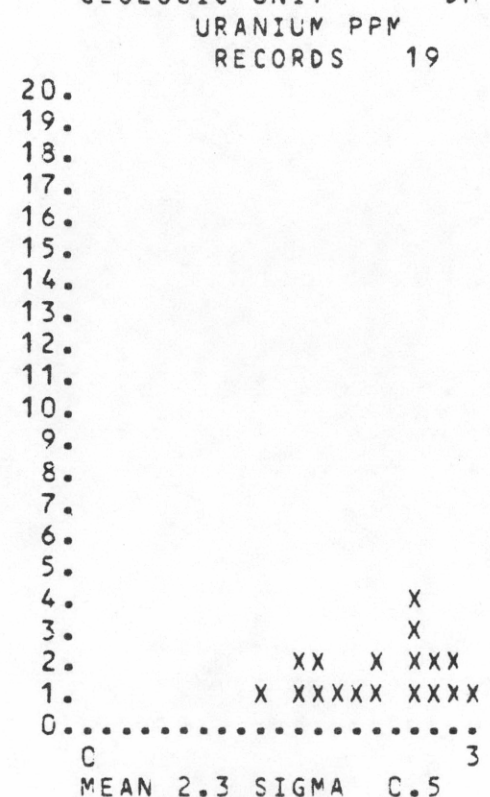
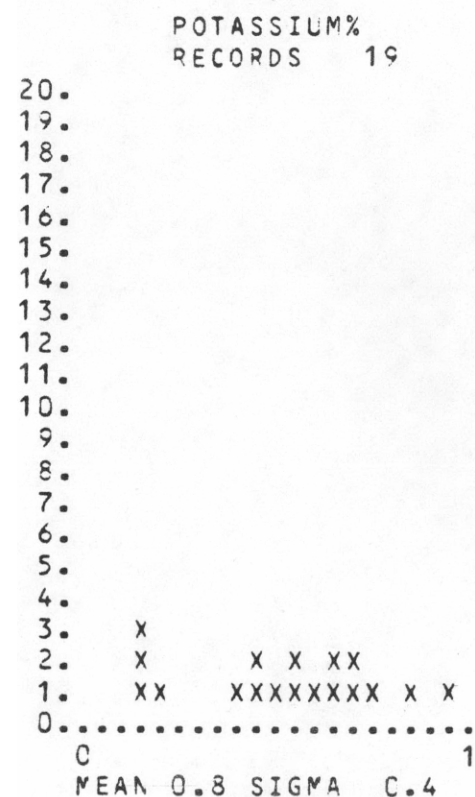
MEAN 0.6 SIGMA 0.5



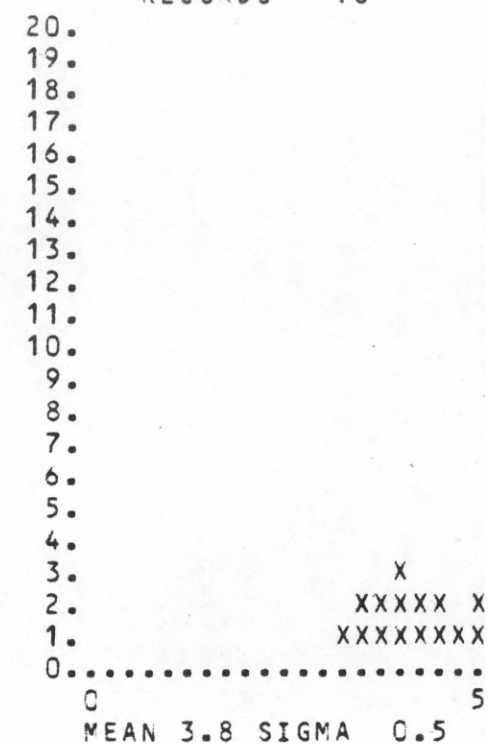
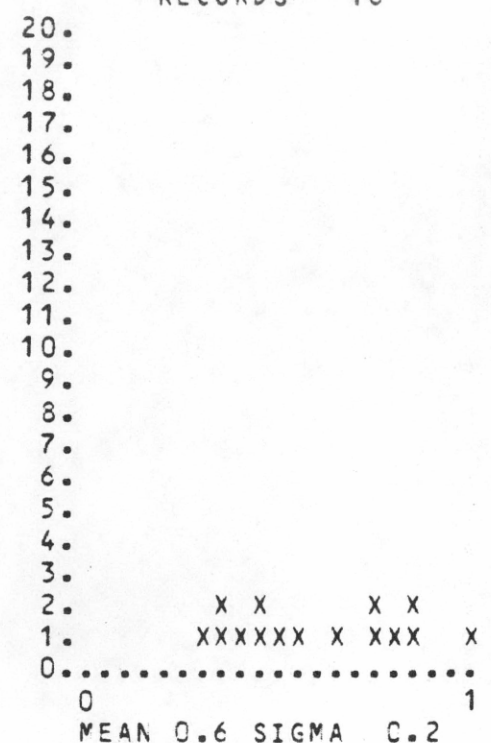
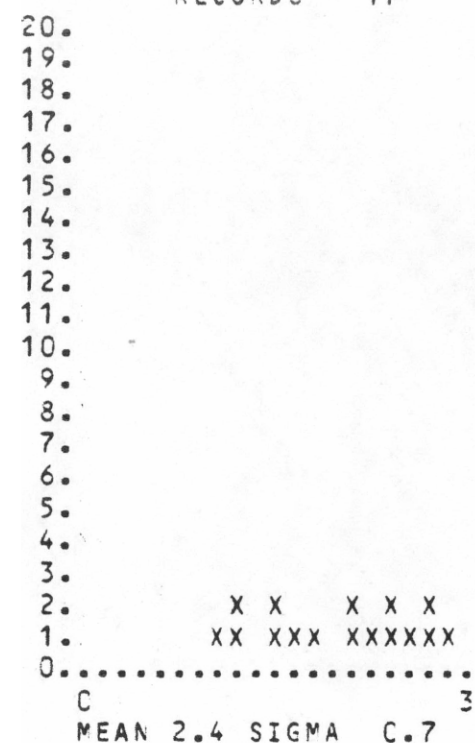
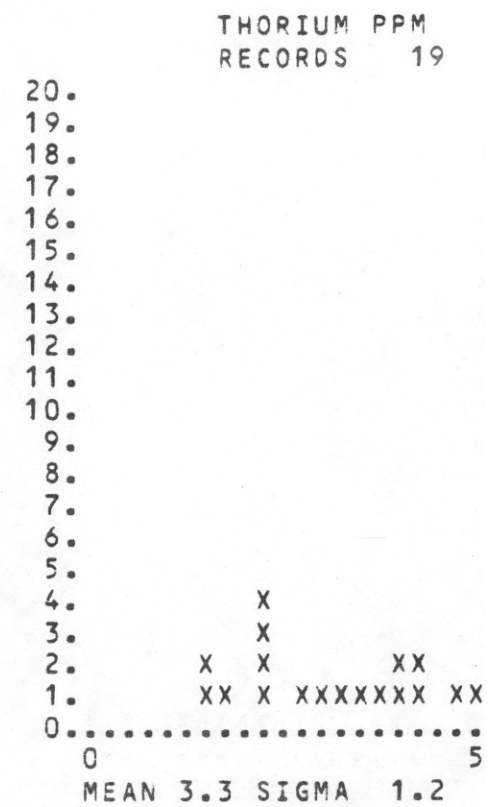
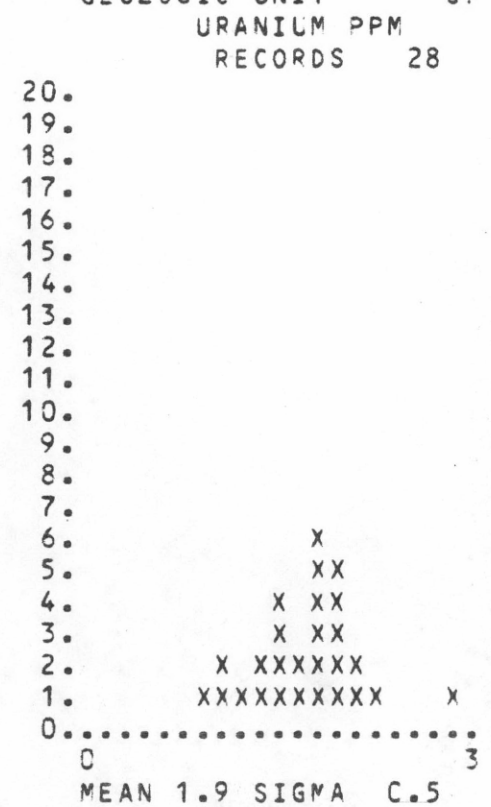
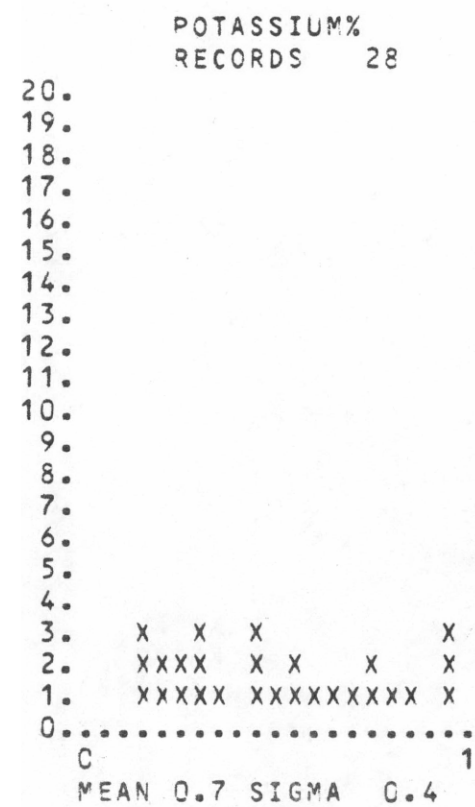
MEAN 4.3 SIGMA 1.5

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

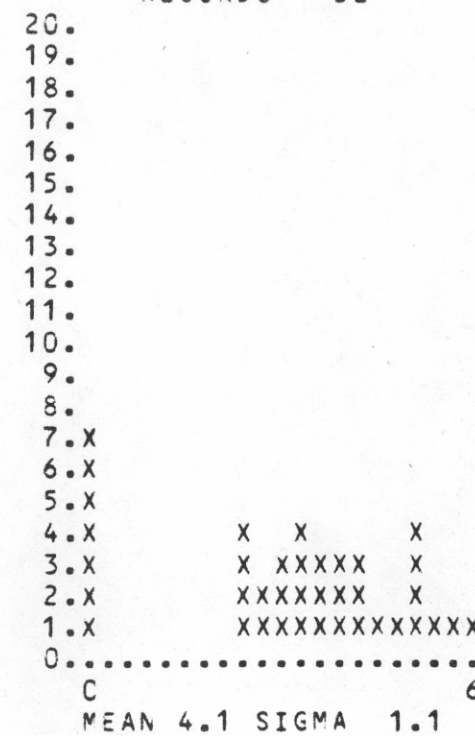
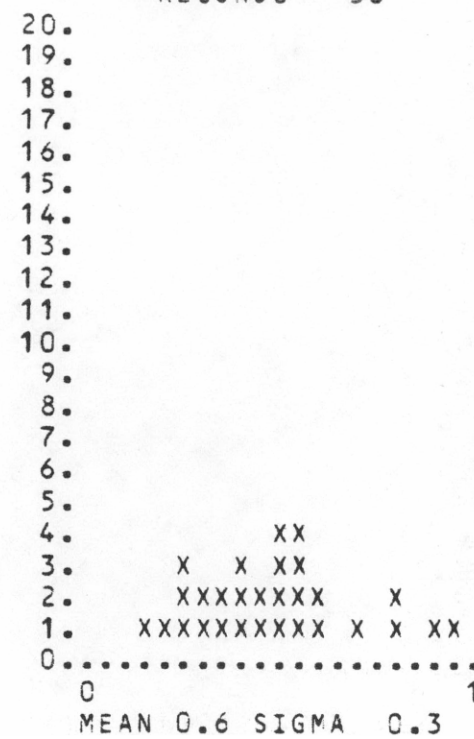
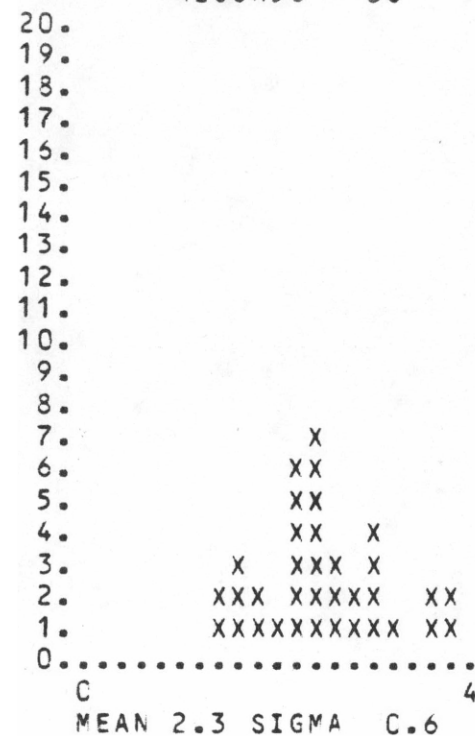
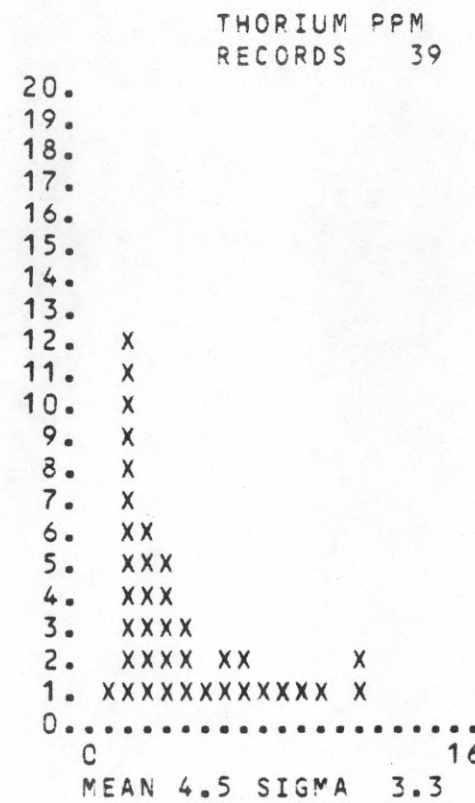
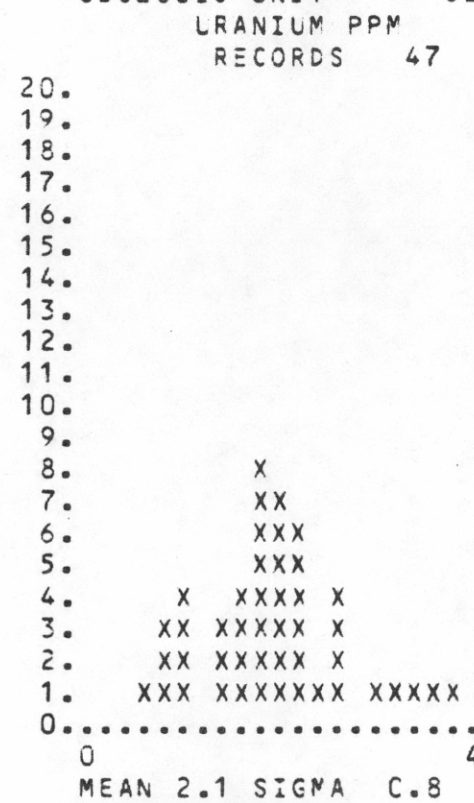
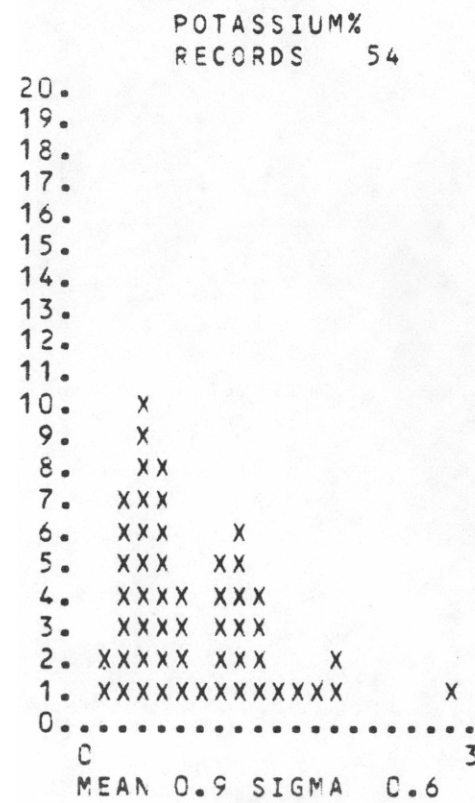
GEOLOGIC UNIT DM



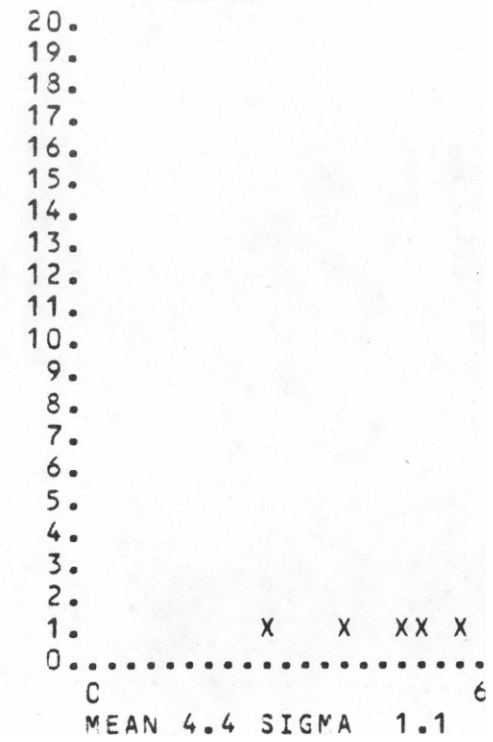
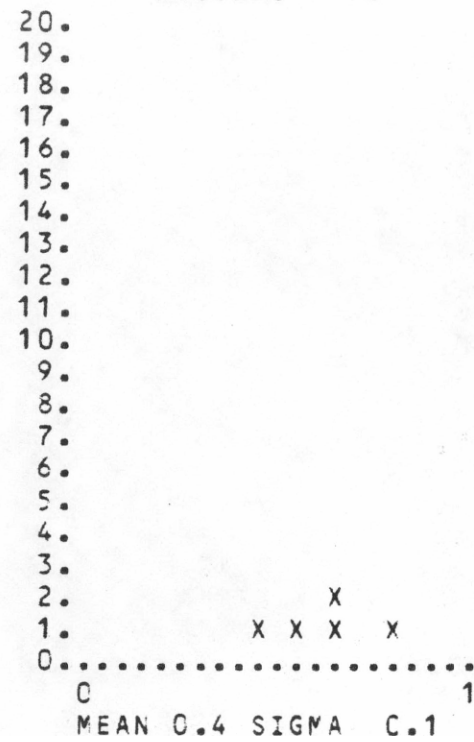
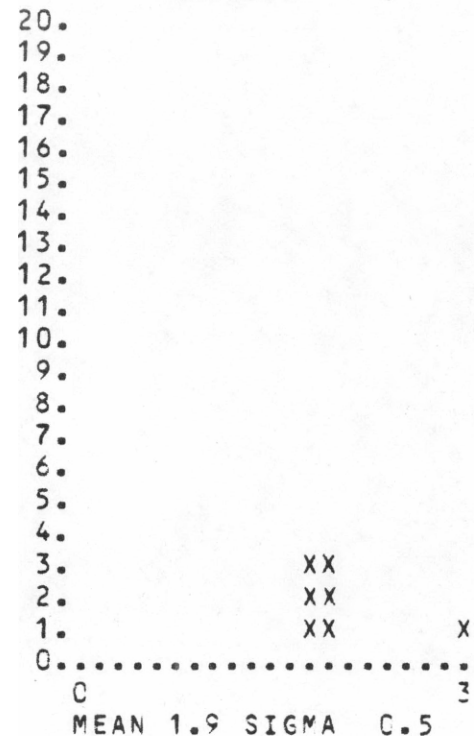
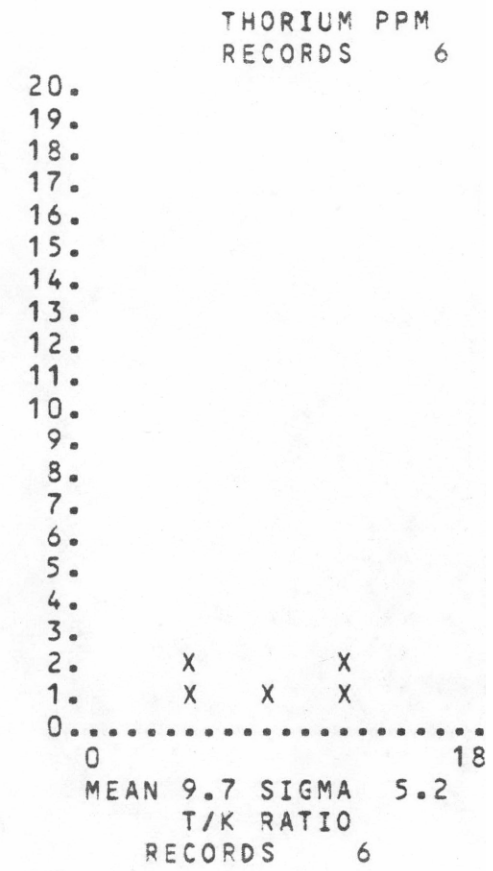
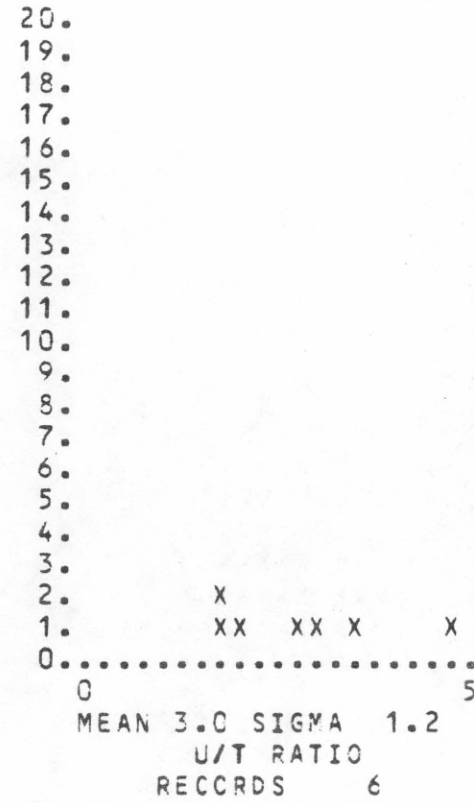
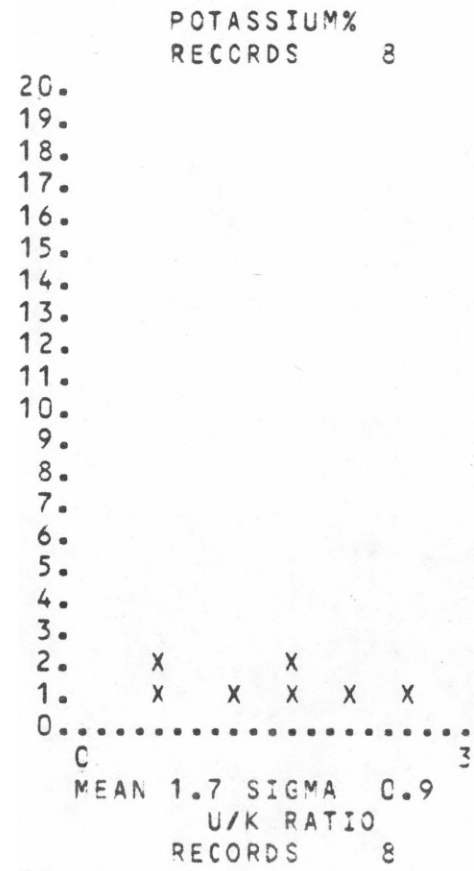
TEXAS-NEW MEXICO-EL PASC NH 13-1 QUADRANGLE
GEOLOGIC UNIT SF



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
GEOLOGIC UNIT OE



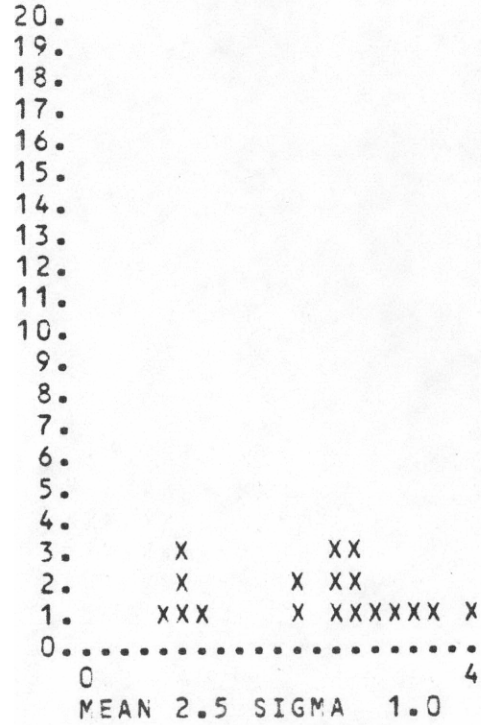
TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 GEOLOGIC UNIT COB
 URANIUM PPM
 RECORDS 8



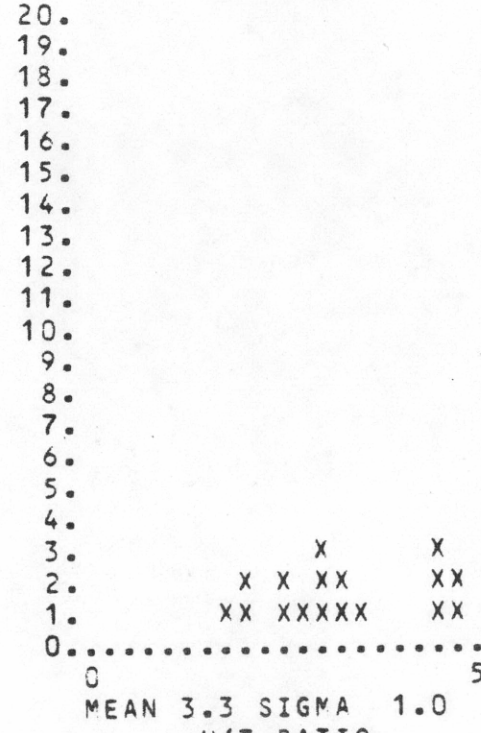
TEXAS-NEW MEXICO-EL PASC NH 13-1 QUADRANGLE

GEOLOGIC UNIT PCL

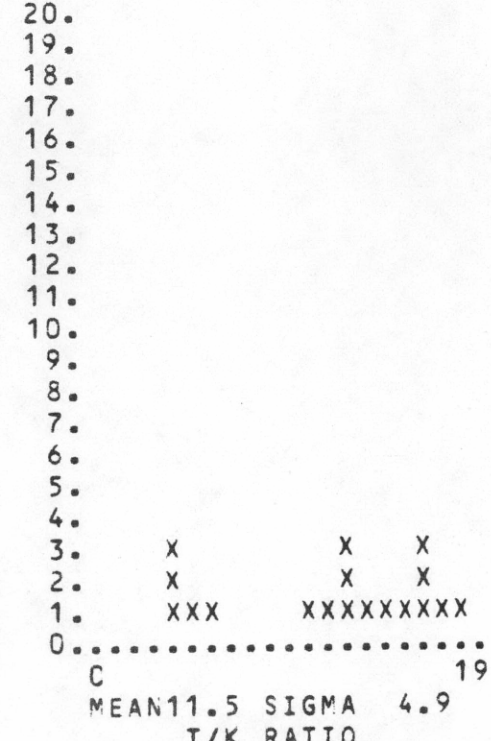
POTASSIUM%
RECORDS 19



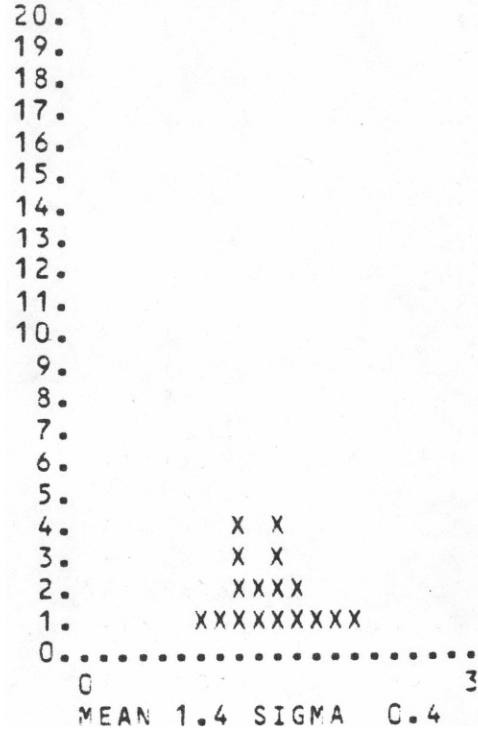
URANIUM PPM
RECORDS 18



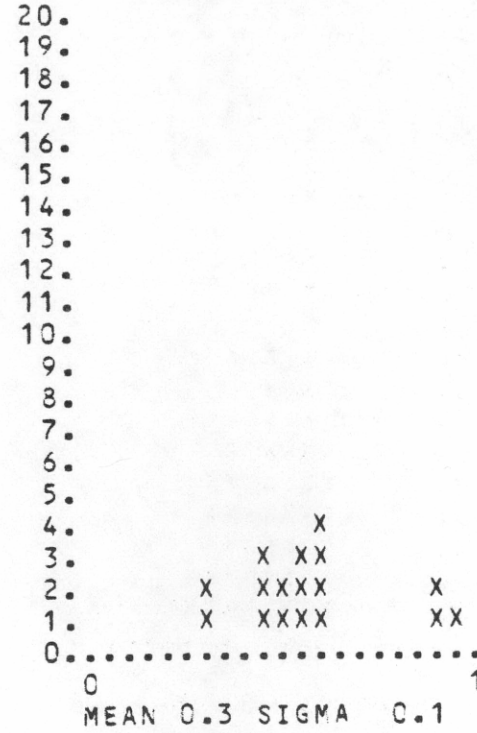
THORIUM PPM
RECORDS 19



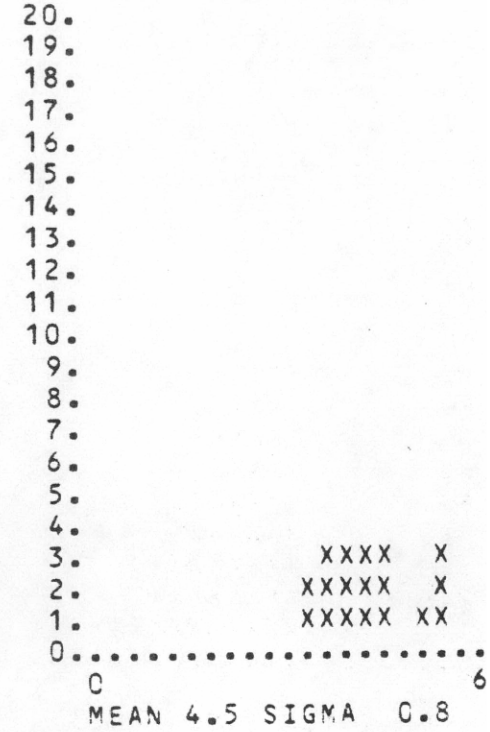
U/K RATIO
RECORDS 18



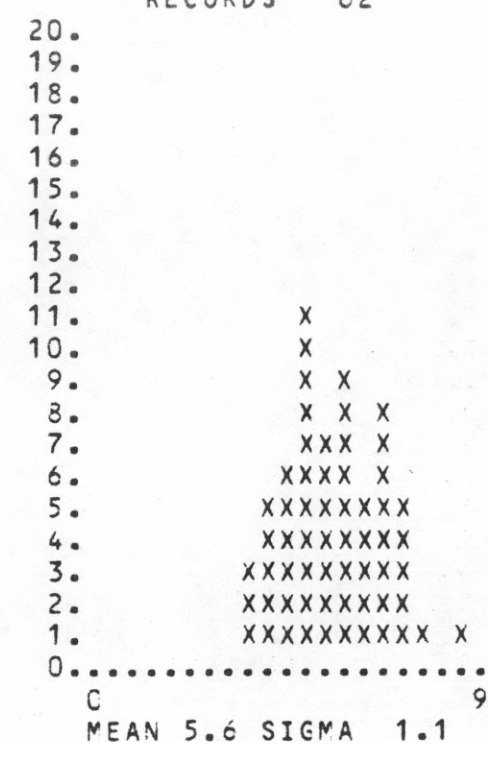
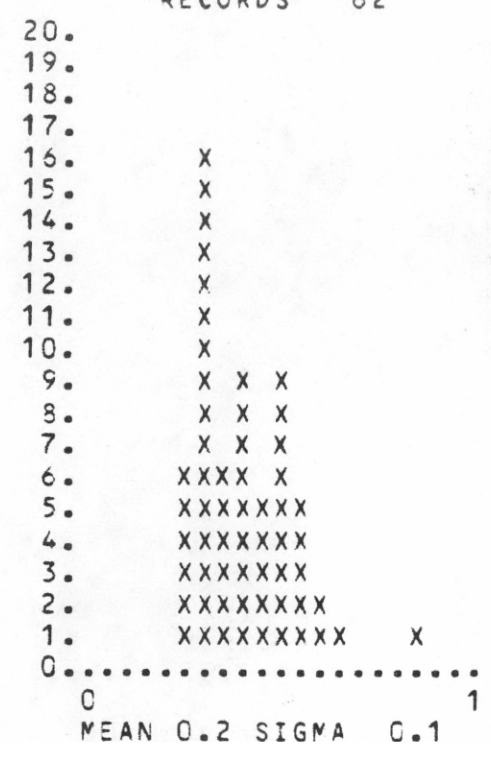
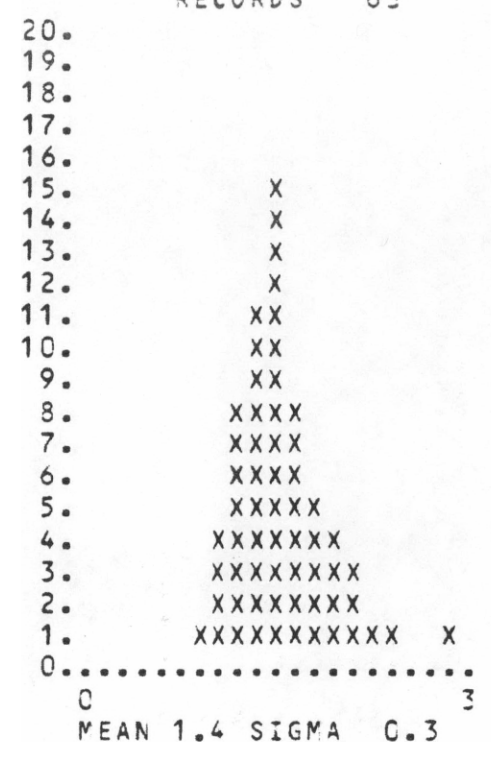
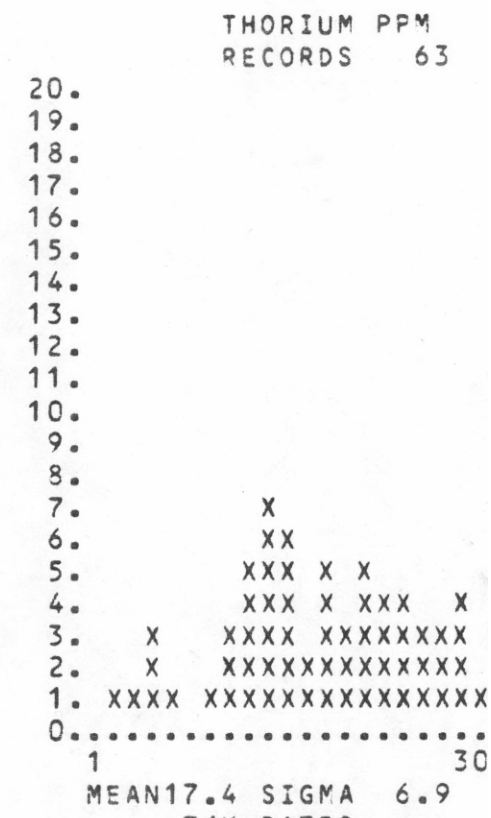
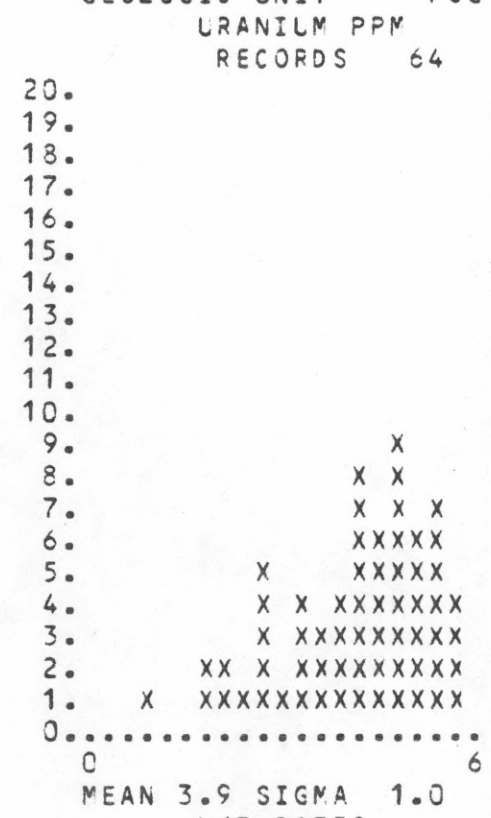
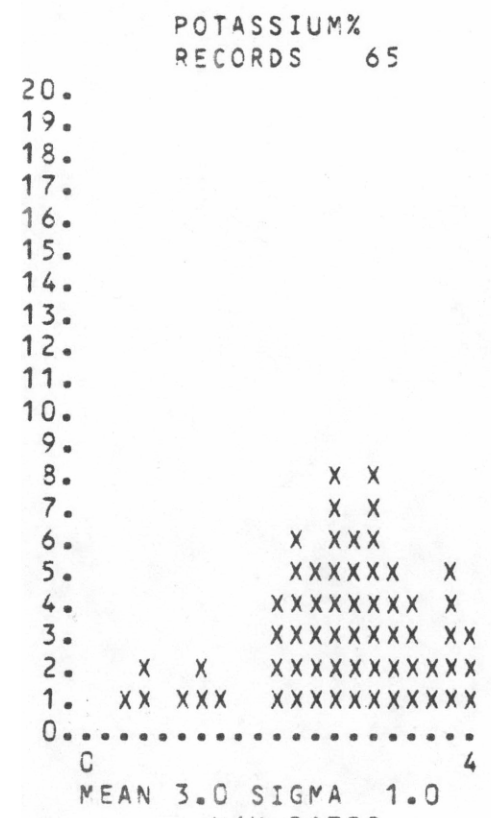
U/T RATIO
RECORDS 18



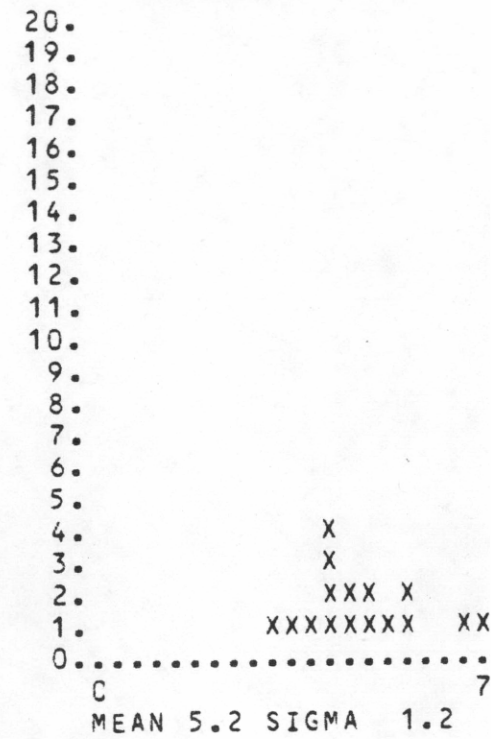
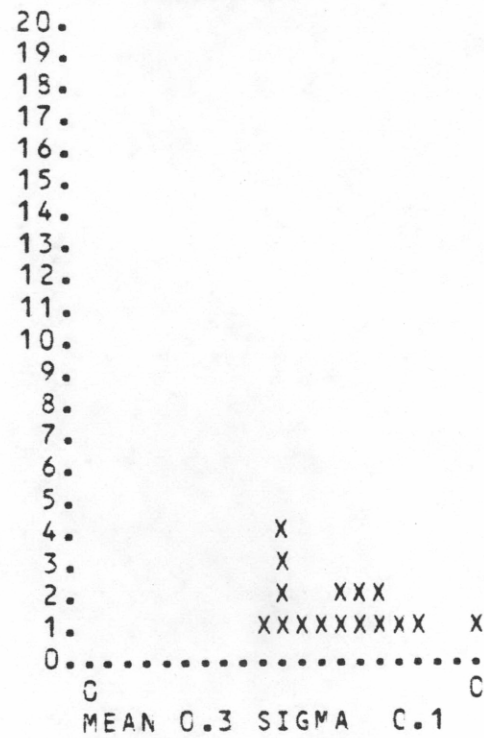
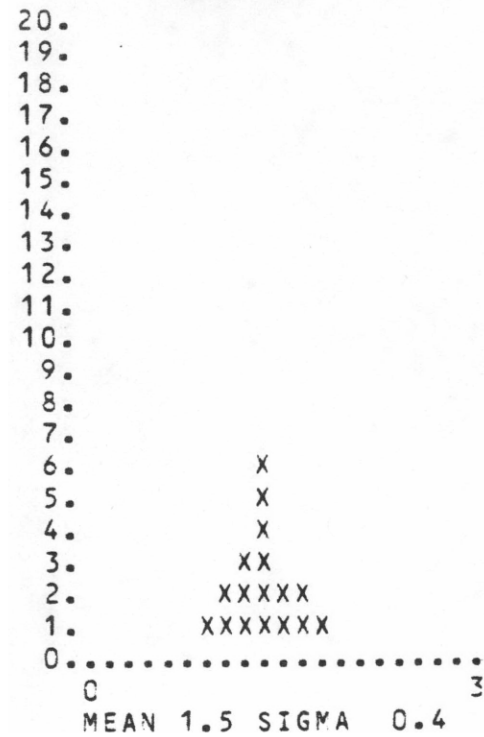
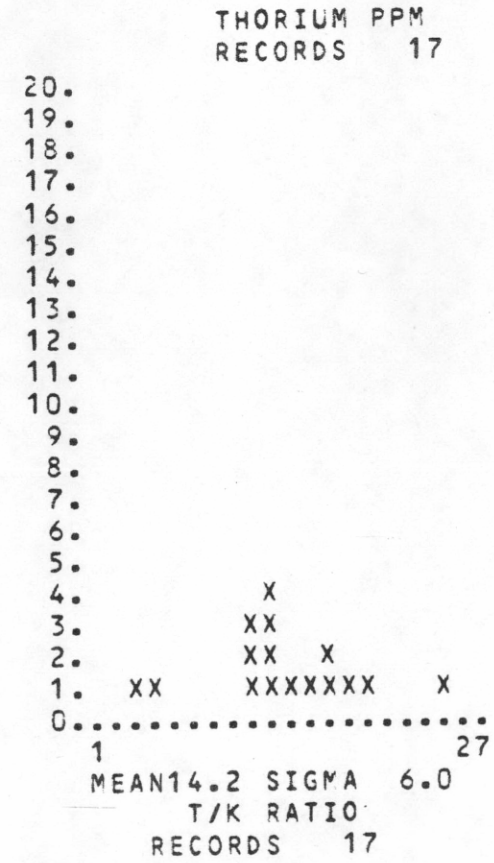
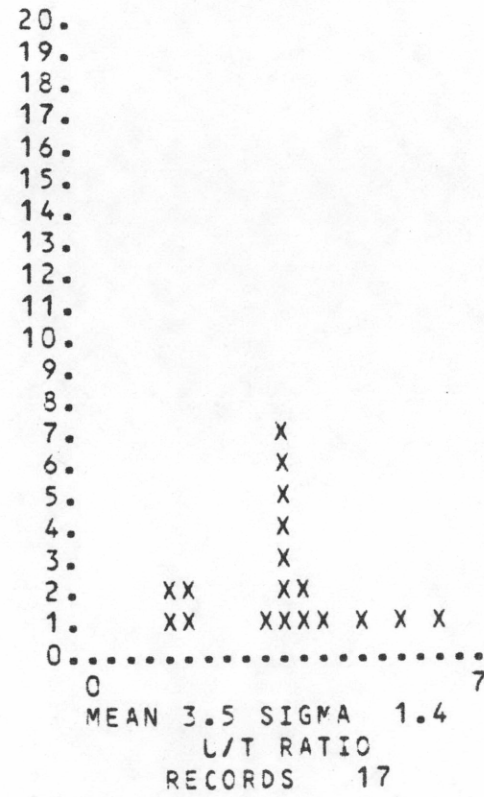
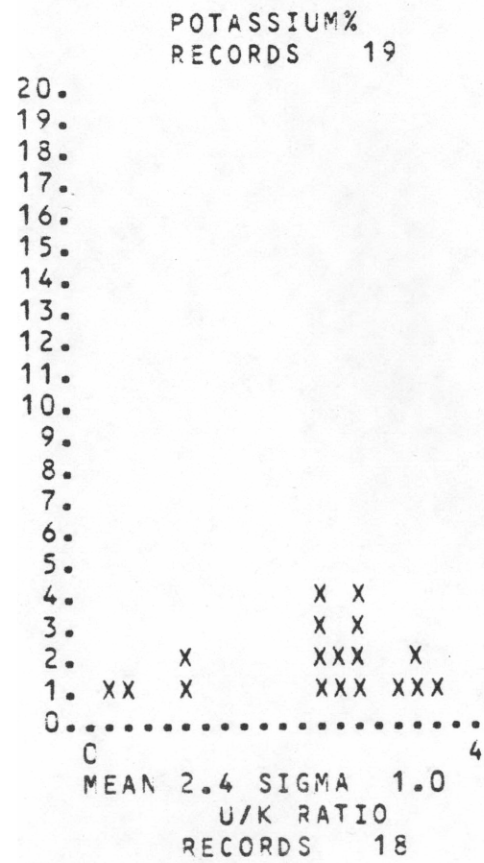
T/K RATIO
RECORDS 19



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 GEOLOGIC UNIT PCG



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 GEOLOGIC UNIT PCR
 URANIUM PPM
 RECORDS 19



TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 STATISTICAL SUMMARY

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
101.	QU	174.0	1.7 0.9	2.9 1.2	8.8 6.5	1.9 0.7	0.4 0.2	4.7 1.4
102.	QS	1101.0	1.8 0.2	2.1 0.5	4.6 0.8	1.2 0.3	0.5 0.1	2.6 0.4
103.	QAL	635.0	1.7 0.3	2.4 0.6	7.0 1.7	1.5 0.5	0.4 0.1	4.0 0.8
104.	QB	2944.0	2.4 0.6	2.2 0.6	8.1 3.5	0.9 0.3	0.3 0.1	3.2 0.9
105.	QF	371.0	1.7 0.6	2.8 0.8	6.2 3.1	1.7 0.7	0.5 0.2	3.6 0.8
106.	QAO	46.0	1.7 0.3	2.2 0.6	4.7 0.7	1.5 0.8	0.5 0.2	2.9 0.6
107.	QV	7.0	1.7 0.2	1.4 0.2	4.5 1.0	0.8 0.2	0.3 0.1	2.7 0.5
108.	QBA	532.0	1.9 0.4	1.8 0.4	6.1 1.1	0.9 0.3	0.3 0.1	3.2 0.7
109.	QTG	207.0	2.2 0.6	2.3 0.6	8.2 3.7	1.1 0.3	0.3 0.2	3.6 0.9
110.	QTB	162.0	1.8 0.2	2.1 0.4	4.9 0.7	1.2 0.4	0.4 0.1	2.7 0.5
111.	QTBA	4.0	2.1 0.1	2.2 0.2	9.6 0.5	1.1 0.1	0.2 0.0	4.6 0.2
112.	QTS	18.0	1.4 0.5	1.6 0.3	4.3 0.9	1.4 0.8	0.4 0.1	3.4 1.0
114.	TV	46.0	2.6 0.3	2.0 0.4	8.3 1.4	0.8 0.2	0.2 0.1	3.2 0.4
115.	TVU	59.0	3.5 0.9	2.9 0.6	15.5 5.8	0.9 0.2	0.2 0.1	4.3 1.0
116.	TVL	31.0	3.6 1.3	2.6 0.8	11.5 4.5	0.8 0.2	0.2 0.1	3.2 0.7
117.	TKI	53.0	3.3 0.9	2.5 0.6	16.2 6.0	0.8 0.3	0.2 0.1	4.8 0.8
201.	KU	16.0	1.4 0.8	1.9 0.4	4.6 3.2	1.9 1.0	0.5 0.2	3.6 1.0
301.	FAL	8.0	0.4 0.1	1.4 0.2	1.8 0.2	2.2 0.0	0.7 0.0	3.2 0.0
302.	PH	106.0	0.8 0.5	2.6 0.7	3.6 3.2	3.5 1.4	0.8 0.3	4.1 1.1
303.	PM	34.0	1.1 0.7	2.6 0.7	5.6 3.6	3.0 2.0	0.6 0.5	4.8 1.5
304.	DM	19.0	0.8 0.4	2.3 0.5	3.8 0.9	2.7 0.7	0.6 0.1	4.3 0.7
306.	SF	28.0	0.7 0.4	1.9 0.5	3.3 1.2	2.4 0.7	0.6 0.2	3.8 0.5
308.	OE	47.0	0.9 0.6	2.1 0.8	4.5 3.3	2.3 0.6	0.6 0.3	4.1 1.1
309.	COB	8.0	1.7 0.9	3.0 1.2	9.7 5.2	1.9 0.5	0.4 0.1	4.4 1.1
402.	FCL	18.0	2.5 1.0	3.3 1.0	11.5 4.9	1.4 0.4	0.3 0.1	4.5 0.8
403.	PCG	64.0	3.0 1.0	3.9 1.0	17.4 6.9	1.4 0.3	0.2 0.1	5.6 1.1
404.	PCR	19.0	2.4 1.0	3.5 1.4	14.2 6.0	1.5 0.4	0.3 0.1	5.2 1.2

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 59

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
101.	QU	8.0	1.5 0.5	2.0 0.7	5.1 1.8	1.7 1.3	0.4 0.3	3.7 1.1
102.	QS	49.0	1.8 0.1	2.2 0.5	5.0 0.8	1.2 0.3	0.4 0.1	2.7 0.4
103.	GAL	68.0	1.6 0.5	2.2 0.5	6.3 2.0	1.7 1.1	0.4 0.2	4.1 0.9
104.	QB	489.0	2.5 0.6	2.0 0.6	8.4 3.1	0.8 0.3	0.3 0.1	3.3 0.8
105.	GF	46.0	1.6 0.7	3.0 0.5	6.6 2.2	2.0 1.0	0.5 0.2	3.9 0.5
107.	QV	4.0	1.6 0.2	1.3 0.3	4.6 0.7	0.9 0.2	0.3 0.0	2.8 0.4
108.	GBA	163.0	1.9 0.3	1.4 0.3	5.9 0.9	0.8 0.2	0.2 0.1	3.2 0.6
109.	GTG	23.0	2.4 0.6	2.0 0.6	8.7 3.2	0.8 0.1	0.2 0.1	3.5 0.7
112.	GTS	8.0	1.7 0.2	1.4 0.2	4.5 0.5	0.9 0.1	0.3 0.1	2.7 0.4
302.	PH	28.0	0.8 0.4	2.4 0.5	3.1 0.8	3.4 1.4	0.9 0.3	3.9 1.0
303.	PM	4.0	0.5 0.1	2.8 0.3	2.5 0.7	5.1 1.8	1.0 0.4	4.9 0.0
304.	DM	4.0	0.3 0.0	2.0 0.4	1.9 0.0	0.0 0.0	0.0 0.0	0.0 0.0
402.	PCL	4.0	1.1 0.1	2.0 0.3	4.5 0.6	2.0 0.5	0.5 0.0	4.1 0.7

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 60

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
101.	QU	37.0	1.6 0.8	3.0 0.7	8.2 5.3	2.4 1.1	0.5 0.3	5.0 1.0
102.	GS	75.0	1.9 0.1	2.3 0.7	5.2 0.7	1.2 0.4	0.4 0.1	2.7 0.4
103.	GAL	37.0	1.9 0.1	2.1 0.7	6.9 1.7	1.1 0.4	0.3 0.1	3.7 0.8
104.	QB	352.0	2.5 0.5	2.0 0.6	8.3 3.5	0.8 0.3	0.2 0.1	3.3 1.0
105.	GF	71.0	1.8 0.5	2.9 0.9	7.1 3.6	1.7 0.3	0.4 0.1	3.9 0.9
108.	GBA	56.0	2.0 0.4	1.5 0.3	6.7 2.0	0.8 0.2	0.2 0.1	3.5 0.7
109.	GTG	45.0	2.2 0.4	2.1 0.6	9.4 2.9	0.9 0.2	0.2 0.0	4.2 0.8
114.	TV	16.0	2.7 0.3	1.9 0.3	9.1 1.3	0.7 0.1	0.2 0.1	3.4 0.3
117.	TKI	4.0	1.6 0.5	1.7 0.3	6.4 2.1	1.1 0.3	0.3 0.1	4.2 0.8
302.	PH	26.0	0.9 0.5	2.6 0.3	3.5 1.8	3.3 1.5	0.8 0.3	4.1 0.6
303.	PM	10.0	1.3 0.6	2.0 0.2	7.2 2.3	1.8 0.5	0.3 0.1	6.0 1.5
306.	SF	6.0	0.3 0.1	1.4 0.3	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0
308.	CE	4.0	0.4 0.2	1.4 0.6	2.6 0.0	3.3 0.6	0.7 0.0	4.2 0.0
403.	PCG	8.0	1.9 1.3	2.7 1.1	11.5 7.1	1.7 0.6	0.4 0.2	4.6 0.9

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 61

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
101.	GU	46.0	2.6 0.8	4.3 1.0	16.4 5.8	1.7 0.3	0.3 0.1	6.1 1.3
102.	QS	46.0	1.9 0.1	3.0 0.8	5.4 1.5	1.6 0.4	0.6 0.2	2.8 0.7
103.	GAL	26.0	1.8 0.1	3.2 0.7	8.3 1.7	1.7 0.4	0.4 0.1	4.5 1.0
104.	GB	434.0	2.3 0.6	2.1 0.7	7.8 3.5	0.9 0.4	0.3 0.1	3.3 1.0
105.	QF	54.0	1.8 0.8	3.1 1.2	7.5 4.5	1.8 0.7	0.5 0.2	4.0 0.9
108.	GEA	70.0	1.7 0.3	1.8 0.3	5.8 0.8	1.1 0.3	0.3 0.1	3.4 0.6
109.	GTG	39.0	2.4 0.7	2.1 0.5	9.5 4.8	0.9 0.2	0.3 0.1	3.7 1.0
111.	QTBA	4.0	2.1 0.1	2.2 0.2	9.6 0.5	1.1 0.1	0.2 0.0	4.6 0.2
112.	GTS	4.0	0.8 0.1	1.7 0.1	3.3 0.6	2.0 0.2	0.5 0.1	4.0 0.7
114.	TV	12.0	2.2 0.2	1.9 0.4	6.7 0.8	0.9 0.2	0.3 0.1	3.1 0.5
115.	TVU	7.0	3.0 0.2	2.7 0.3	16.1 1.3	0.9 0.1	0.2 0.0	5.4 0.3
116.	TVL	10.0	2.7 0.5	1.9 0.5	9.2 3.3	0.7 0.1	0.2 0.0	3.4 0.5
117.	TKI	23.0	3.6 0.4	2.4 0.5	17.9 3.4	0.7 0.1	0.1 0.0	4.9 0.6
201.	KU	9.0	1.0 0.8	1.8 0.3	4.2 4.3	2.3 1.0	0.6 0.3	3.8 0.6
302.	PH	29.0	0.9 0.7	2.6 0.9	4.7 5.7	3.1 1.1	0.8 0.3	4.5 1.4
402.	PCL	5.0	2.9 0.2	3.6 0.9	16.4 1.8	1.2 0.2	0.2 0.1	5.6 0.6

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 62

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
101.	GU	41.0	1.4 0.4	2.3 0.7	5.8 2.4	1.7 0.5	0.4 0.1	3.9 0.7
102.	GS	107.0	1.7 0.2	2.0 0.4	4.6 0.7	1.2 0.4	0.5 0.1	2.7 0.5
103.	QAL	25.0	1.6 0.1	2.5 0.6	7.0 1.6	1.6 0.5	0.4 0.2	4.3 0.9
104.	QB	514.0	2.5 0.5	2.3 0.6	8.1 3.6	1.0 0.3	0.3 0.1	3.2 1.0
105.	QF	21.0	1.1 0.4	2.8 0.7	4.1 1.0	2.7 1.4	0.7 0.4	3.7 0.6
108.	GBA	111.0	2.0 0.5	2.0 0.4	5.8 0.8	1.1 0.3	0.3 0.1	3.1 0.7
109.	GTG	30.0	2.1 0.6	2.4 0.4	7.2 4.0	1.2 0.3	0.4 0.2	3.2 0.9
115.	TVU	19.0	4.1 0.3	3.2 0.4	20.0 1.4	0.8 0.1	0.2 0.0	4.9 0.4
201.	KU	5.0	1.6 0.7	2.1 0.4	4.9 0.4	1.6 0.8	0.4 0.1	3.5 1.6
302.	PH	21.0	0.6 0.2	3.0 0.7	2.8 0.8	4.6 1.2	1.1 0.3	4.2 0.7
303.	PM	5.0	0.6 0.2	3.3 0.4	2.4 0.7	5.3 1.3	1.5 0.6	3.7 0.9
306.	SF	5.0	1.1 0.2	2.4 0.6	4.0 1.1	2.2 0.7	0.6 0.2	3.6 0.5
308.	OE	7.0	0.5 0.1	1.7 0.4	1.9 0.3	2.6 0.6	0.9 0.0	3.6 0.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 63

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
101.	GU	22.0	0.9 0.2	2.2 0.6	3.4 1.4	2.4 0.5	0.7 0.2	3.7 0.9
102.	GS	124.0	1.7 0.2	2.3 0.5	4.4 0.9	1.4 0.3	0.5 0.1	2.5 0.5
103.	QAL	25.0	1.4 0.4	2.6 0.3	5.1 1.7	2.1 0.7	0.5 0.2	3.8 0.7
104.	QB	471.0	2.5 0.7	2.5 0.6	8.0 3.9	1.0 0.3	0.4 0.1	3.1 1.0
105.	QF	29.0	1.7 0.7	3.2 1.1	6.0 5.0	2.0 0.9	0.7 0.3	3.2 1.0
106.	GAO	10.0	1.2 0.1	3.2 0.4	4.6 0.5	2.7 0.6	0.7 0.1	3.9 0.5
108.	GBA	62.0	2.0 0.4	2.2 0.4	6.1 0.8	1.1 0.2	0.4 0.1	3.1 0.6
109.	GTG	20.0	2.4 0.6	2.8 0.7	9.1 4.3	1.1 0.2	0.4 0.1	3.5 1.1
116.	TVL	11.0	5.0 0.5	3.2 0.6	14.0 2.8	0.6 0.1	0.2 0.1	2.8 0.4
117.	TKI	6.0	2.4 0.2	2.4 0.4	8.4 1.5	1.0 0.2	0.3 0.1	3.5 0.4
301.	FAL	7.0	0.3 0.1	1.4 0.2	1.8 0.2	0.0 0.0	0.0 0.0	0.0 0.0
303.	PM	4.0	0.6 0.1	3.4 0.5	2.8 0.8	5.9 1.7	1.2 0.5	4.2 0.8
304.	DM	7.0	0.8 0.2	2.2 0.5	3.5 0.6	2.7 0.7	0.6 0.1	4.3 0.7
306.	SF	7.0	0.6 0.2	2.0 0.3	2.6 0.9	2.9 0.4	0.7 0.1	4.0 0.5
308.	OE	6.0	0.6 0.2	1.4 0.3	2.8 0.0	2.3 0.5	0.6 0.0	2.6 0.0

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 64

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
102.	QS	58.0	1.8 0.2	2.1 0.5	4.3 0.8	1.2 0.4	0.5 0.1	2.5 0.4
103.	GAL	59.0	1.3 0.2	2.2 0.5	4.7 0.8	1.7 0.5	0.5 0.1	3.6 0.6
104.	QB	37.0	1.7 0.2	2.2 0.4	4.6 0.7	1.3 0.3	0.5 0.1	2.6 0.4
105.	QF	30.0	1.5 0.2	2.3 0.3	5.0 1.0	1.6 0.3	0.5 0.1	3.4 0.5
106.	GAO	10.0	1.7 0.2	2.2 0.3	4.5 0.6	1.3 0.3	0.5 0.1	2.7 0.4
110.	GTB	25.0	1.4 0.1	2.4 0.3	4.3 0.5	1.7 0.3	0.6 0.1	3.1 0.5
308.	CE	8.0	1.1 0.3	2.2 0.3	3.5 0.6	2.1 0.4	0.6 0.1	3.3 0.6

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 65

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
102.	GS	89.0	1.8 0.1	1.9 0.4	4.4 0.8	1.1 0.2	0.4 0.1	2.5 0.5
103.	GAL	31.0	1.7 0.1	2.3 0.3	6.8 0.9	1.4 0.2	0.3 0.1	4.0 0.4
104.	QB	13.0	1.9 0.1	2.1 0.4	4.7 0.6	1.2 0.3	0.5 0.1	2.5 0.3
105.	QF	21.0	1.4 0.3	2.2 0.4	5.0 1.0	1.6 0.3	0.4 0.1	3.5 0.5
106.	GAO	10.0	1.8 0.2	2.1 0.3	4.6 0.6	1.1 0.2	0.4 0.1	2.5 0.4
110.	GTB	21.0	2.0 0.1	2.1 0.4	5.2 0.6	1.1 0.3	0.4 0.1	2.7 0.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 66

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
102.	GS	75.0	1.8 0.1	2.0 0.4	4.5 0.7	1.1 0.2	0.4 0.1	2.5 0.4
103.	GAL	34.0	1.8 0.2	2.6 0.4	7.2 1.1	1.5 0.3	0.4 0.1	3.9 0.5
105.	QF	5.0	1.7 0.2	2.2 0.2	5.2 0.6	1.3 0.2	0.4 0.0	3.0 0.4
106.	GAO	10.0	1.8 0.1	1.9 0.4	4.8 0.8	1.0 0.2	0.4 0.1	2.6 0.4
110.	GTB	7.0	1.9 0.1	2.4 0.4	5.1 0.6	1.3 0.2	0.5 0.1	2.7 0.3

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE
 STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 67

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
102.	GS	80.0	1.8 0.1	1.8 0.4	4.5 0.6	1.0 0.2	0.4 0.1	2.5 0.3
103.	GAL	41.0	1.8 0.4	2.5 0.6	7.7 1.9	1.4 0.3	0.3 0.1	4.3 0.6
104.	GB	18.0	1.7 0.1	1.8 0.3	4.7 0.6	1.0 0.2	0.4 0.1	2.7 0.3
110.	GTB	13.0	1.9 0.2	2.4 0.3	5.0 0.9	1.3 0.2	0.5 0.1	2.6 0.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 68

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
102.	GS	65.0	1.8 0.1	1.9 0.3	4.5 0.8	1.0 0.2	0.4 0.1	2.5 0.4
103.	GAL	40.0	1.8 0.1	2.4 0.4	7.5 0.8	1.3 0.3	0.3 0.1	4.1 0.5
104.	GB	11.0	1.7 0.1	1.9 0.3	4.9 0.5	1.1 0.2	0.4 0.1	2.9 0.3
110.	GTB	19.0	1.9 0.1	2.0 0.4	5.1 0.7	1.1 0.2	0.4 0.1	2.7 0.3

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 69

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
102.	GS	49.0	1.8 0.1	1.8 0.4	4.4 0.8	1.0 0.2	0.4 0.1	2.5 0.4
103.	GAL	37.0	1.9 0.1	2.4 0.4	7.5 1.2	1.3 0.3	0.3 0.1	4.0 0.6
110.	GTB	18.0	1.9 0.1	1.9 0.4	5.0 0.8	1.0 0.2	0.4 0.1	2.6 0.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 70

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
102.	GS	46.0	1.8 0.1	1.9 0.4	4.3 0.6	1.0 0.2	0.4 0.1	2.4 0.3
103.	GAL	40.0	1.9 0.1	2.3 0.4	8.0 1.1	1.2 0.2	0.3 0.1	4.2 0.6
110.	GTB	14.0	1.9 0.1	2.1 0.2	4.8 0.7	1.1 0.1	0.5 0.1	2.5 0.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 71

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	*** U/K ***	*** U/T ***	*** T/K ***
			MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
102.	GS	25.0	1.8 0.1	2.0 0.4	4.9 0.7	1.1 0.3	0.4 0.1	2.7 0.4
103.	GAL	32.0	1.9 0.1	2.7 0.4	8.4 0.9	1.4 0.2	0.3 0.1	4.4 0.5
110.	GTB	9.0	1.9 0.2	1.8 0.3	5.2 0.7	1.0 0.2	0.4 0.1	2.8 0.4

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 72

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **						
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.						
103.	GAL	38.0	1.8	0.3	2.7	0.7	7.9	1.4	1.5	0.3	0.3	0.1	4.4	0.5

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 200

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **						
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.						
104.	QB	116.0	3.3	1.0	2.9	0.4	12.4	1.8	1.0	0.3	0.2	0.0	4.0	0.8
109.	GTG	5.0	2.7	0.1	2.0	0.6	10.1	0.5	0.7	0.2	0.2	0.1	3.7	0.2

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 201

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **						
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.						
104.	QB	48.0	3.0	0.5	3.0	0.5	13.0	2.8	1.0	0.3	0.2	0.1	4.3	0.6
115.	TVU	24.0	3.4	1.2	3.1	0.7	14.9	6.2	1.0	0.3	0.2	0.1	4.3	0.7
116.	TVL	8.0	3.0	1.1	2.5	0.8	11.7	6.5	0.8	0.1	0.2	0.1	3.6	0.9
117.	TKI	20.0	3.6	1.1	2.9	0.6	18.5	6.0	0.9	0.5	0.2	0.1	5.1	0.6
303.	PM	7.0	2.1	0.7	2.6	0.7	8.9	4.7	1.3	0.5	0.3	0.1	4.2	1.2

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 202

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **						
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.						
104.	GS	110.0	2.7	0.2	2.7	0.4	10.5	0.9	1.0	0.2	0.3	0.0	3.9	0.5

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 203

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **						
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.						
104.	QB	67.0	2.7	0.2	2.2	0.3	6.1	0.6	0.8	0.1	0.4	0.1	2.3	0.3
108.	GBA	27.0	2.7	0.2	2.2	0.3	6.5	1.0	0.8	0.1	0.3	0.1	2.4	0.4
115.	TVU	9.0	2.9	0.2	2.1	0.4	7.0	0.9	0.7	0.1	0.3	0.1	2.4	0.3

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 204

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **						
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.						
104.	QB	73.0	2.2	0.2	1.9	0.3	6.2	1.1	0.9	0.2	0.3	0.1	2.9	0.6
108.	GBA	31.0	1.9	0.2	1.9	0.3	6.7	0.7	1.0	0.1	0.3	0.1	3.5	0.5
114.	TV	18.0	2.7	0.1	2.2	0.4	8.6	0.8	0.8	0.2	0.3	0.1	3.2	0.3

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 205

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **						
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.						
103.	GAL	14.0	1.9	0.1	2.3	0.3	4.9	0.6	1.2	0.2	0.5	0.1	2.6	0.4
104.	QB	85.0	2.0	0.2	2.0	0.3	4.8	0.5	1.0	0.2	0.4	0.1	2.4	0.4
108.	GBA	12.0	1.8	0.1	2.0	0.3	5.1	0.6	1.1	0.2	0.4	0.1	2.8	0.4

TEXAS-NEW MEXICO-EL PASO NH 13-1 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 206

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
104.	GB	57.0	2.0	0.1	2.4	0.4	4.6	0.7
109.	GTG	45.0	1.8	0.1	2.6	0.5	5.7	1.0

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 207

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
101.	QU	20.0	1.4	0.7	2.2	0.7	6.2	5.0
308.	OE	19.0	1.3	0.7	2.7	0.8	6.3	4.0
309.	COB	6.0	1.6	1.0	2.9	1.3	10.4	5.8
402.	PCL	9.0	3.1	0.7	3.6	0.8	12.7	2.0
403.	PCG	48.0	3.3	0.7	4.2	0.7	19.2	5.8
404.	PCR	17.0	2.7	0.8	3.7	1.3	14.2	6.0

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 208

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
102.	QS	78.0	1.8	0.1	1.9	0.4	4.8	0.6
103.	GAL	65.0	1.8	0.2	2.3	0.4	7.5	1.4
104.	GB	41.0	1.8	0.2	1.8	0.4	4.8	0.5
106.	GAO	6.0	2.0	0.2	1.6	0.3	5.4	0.7
110.	GTB	19.0	1.9	0.1	2.1	0.4	4.9	0.7

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 209

CODE	UNIT	RECS	*** K ***	*** U ***	*** T ***	** U/K **	** U/T **	** T/K **
			MEAN	ST.DEV.	MEAN	ST.DEV.	MEAN	ST.DEV.
102.	QS	133.0	1.8	0.1	2.0	0.4	4.4	0.7
103.	GAL	20.0	1.8	0.1	2.8	0.6	7.6	1.1
104.	GB	6.0	1.8	0.1	2.5	0.5	6.2	1.1
105.	QF	94.0	1.8	0.4	2.5	0.5	5.9	1.7
110.	GTB	16.0	1.8	0.2	2.2	0.4	5.2	0.7
304.	DM	5.0	1.0	0.3	2.7	0.4	4.0	0.3
306.	SF	8.0	0.9	0.2	1.8	0.2	3.5	1.2

