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National Uranium Resource Evaluation

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

FINAL REPORT

VOLUME II *D*

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

CARSON HELICOPTERS, INC.

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September 1981

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

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Volume 2D
Las Cruces Quadrangle

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PREPARED FOR U. S. DEPARTMENT OF ENERGY
GRAND JUNCTION OFFICE, COLORADO
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ABSTRACT

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

Analysis of this radiometric data yielded 192 Statistically significant eU anomalies. Of this number, thirty-nine were considered to be of sufficient strength to warrant further investigation.

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1.0 GEOLOGY AND RADIOACTIVE MINERAL DEPOSITS OF THE LAS CRUCES QUADRANGLE

1.1 GENERAL STATEMENT

The Las Cruces 1° x 2° quadrangle is located in south central New Mexico, in the Rio Grande River Valley. The San Andreas Mountains and the White Sands Region of the Tularosa Valley lie approximately at the eastern boundary of the quadrangle, while the Black Range-Mimbres Mountains and the Florida Mountains roughly form the western boundary. Due to aircraft flight restrictions, the survey area does not extend over the White Sands Missile Range. The Rio Grande River Valley lies in the central portion of the survey area. Altitudes range from a high of 10,011 feet above sea level north of Emory Pass, in the Black Range in the northwest, to a low of 3,820 feet above sea level near Santo Tomas on the Rio Grande River. The mean elevation for most of the area is between 4,300 and 5,000 feet above sea level. The Las Cruces quadrangle, which has an area of 8,000 square miles, includes most of Dona Ana County, and portions of Otero, Luna, Grant and Sierra Counties.

1.2 GEOLOGY

The Las Cruces quadrangle contains Precambrian igneous and metamorphic to Quaternary sedimentary rocks and surficial deposits. Precambrian units (pC) are exposed in the San Andreas Mountains in the eastern portion of the survey area and in the Black Range and Florida Mountains in the west. In the San Andreas Mountains, which are block faulted and trend north-south, the Precambrian rocks range in age from 1.0 to 1.8 billion years old. There is a considerable variation in lithology and composition within this geologic unit (pC), with a possible increase in metamorphic grade from north to south. Some of the Precambrian units exposed in the San Andreas Mountains exhibit a metamorphic grade in the upper amphibolite facies. Granites also compose an important portion of the Precambrian complex. The rocks exposed in this region range in composition from granitic to gneiss and amphibolite migmatite. The metamorphic rocks partly of igneous and partly of sedimentary origin include quartzite, biotite, gneiss and meta-arkose.

Cambrian through Pennsylvanian sedimentary units in the survey area are composed of various combinations of dolomite, limestone sandstone and shale bearing formations.

Many of these geologic units are composed of "undivided" sedimentary rocks, and some geologic units incorporate similar formations. These geologic units are exposed in the San Andreas, Florida, Caballo and Franklin Mountains and in the Black and Cooke Ranges.

Permian rocks in the survey area include the San Andreas and Hueco limestones, the Abo sandstone, the Yeso (sandstone) Formation, and undivided Permian rocks. These units crop out in conjunction with the previously mentioned Pennsylvanian to Cambrian units. Neither the Permian nor the Pennsylvanian through Cambrian geologic units are areally extensive in the Las Cruces quadrangle.

Cretaceous rocks occurring in the survey area include the Mesaverde (sandstone) Group, the Mancos shale-Dakota sandstone, early Cretaceous sedimentary rocks (undivided), and Volcanic rocks, composed mainly of andesite with some basalt dacite and rhyolite.

Tertiary geologic units of the Las Cruces area include several sedimentary units and various igneous intrusive and extrusive rocks. The sedimentary rocks include conglomerates, fanglomerates, sandstones and shales. The igneous units include andesites, rhyolites, latite, pyroclastics, basalts, and porphyritic rocks associate with stocks and laccoliths. These Tertiary igneous units occur widespread throughout the survey area.

Quaternary units include various surficial deposits including alluvial, bolson, playa, aeolian and pediment deposits. These surficial deposits occur in large quantities in the Las Cruces area. Other Quaternary units include basalt and andesite flow. A point of interest is the description, in the "Explanation" of the geologic base map, of geologic unit QTb. This unit is defined as "Basalt and Basaltic Andesitic Flows: Mostly Conglomerates". This apparent discrepancy is probably the result of a typographical error.

1.3 STRUCTURAL GEOLOGY

The tectonic evolution of the Las Cruces quadrangle is divided into three major stages: Laramide uplift, Eocene-Oligocene volcanism, and late Tertiary block faulting in the Rio Grande Rift.

The geometry of the Laramide uplift in the Las Cruces area

generally appears similar to that of the Laramide uplifts of the foreland of the Rocky Mountains to the north, though probably on a smaller scale. The north to north-west trending uplifts are an echelon. The Laramide compressional movements created north-south trending ridges that influence the present day course of the Rio Grande River.

By late Tertiary the Laramide orogenic movements terminated and the region was subject to extensional and rift tectonics. Many of the late Tertiary rift uplifts appear to be correlated with the Laramide uplifts. Most of the mapped faults in the survey area trend north-south, reflecting both Laramide compressional and late Tertiary extensional deformations. This trend is reflected by magnetic linears on the Magnetic Total Field map, which also trend north-south across the survey area.

This episode of deformation was also accompanied by widespread Tertiary volcanism. Near Las Cruces basaltic volcanics occur contemporaneously with rift faulting. Basaltic volcanism, especially during the Pliocene, and to some degree during the Miocene, comprises a significant aspect of the rifting.

Overlying the Laramide orogenic features are Eocene andesites and Oligocene silicic volcanics. The Eocene volcanics do not appear to be controlled by the structure. Rather, these volcanics occur as widespread aprons, with local small stocks. In contrast, the Oligocene volcanics and plutons are related to fault basins, vent zones or cauldron sources. Three of these features that lie in the survey area include the Organ and Dona-Ana Cauldrons in the east, and the Goodsight-Cedar Hills Depression in the central portion of the quadrangle.

Some of the vent zones and fractures associated with the cauldron margins became regions of block faulting in the late Tertiary. The trends of other rift faults tend to diverge around the cauldron complexes. This suggests that the trends of some of these rift faults were modified by structural and/or lithologic inhomogeneities.

Broad, local basins, some of which are oriented oblique to the present structural grain, were developed during the Miocene. Up to 5,000 feet of bolson deposits have accumulated in these basins. A sequential evolution of

uplift in the Las Cruces region is indicated by the composition of the bolson fill. During the late Miocene and Pliocene rifting appears to have culminated. However, some minor rifting may have continued on a diminished scale during the Pleistocene and Holocene. Basaltic volcanism is associated with the Pleistocene rifting in the Las Cruces area.

A positive Bouguer gravity anomaly and an unusually high terrestrial heat flow (as high as 11.5 Heat Flow Units) are reportedly associated with the Rio Grande Rift near Las Cruces. Gravity data of the Las Cruces region exhibits northeast and northwest trends that appear to cut across the predominant north trending structures of the Basin and Range province. It has been suggested that these gravity trends are associated with faults that formed oblique to the trend of the rift. The detailed structure of the horsts and grabens of the rift was controlled by these oblique faults (Seager, et al - 1975).

1.4 RADIOACTIVE MINERALS

There are no known large scale uranium producing mines in the Las Cruces quadrangle. However, there are several uranium prospects and uranium occurrences in the survey area. Two of these prospects occur in the Organ Mountain district near Bishop Cap in the southwest portion of the quadrangle, and one lies in the Black Range-Mimbres Mountains region. The names of these prospects are unknown. The mineralogical class in which these prospects occur is defined as "fluorite-bearing veins" (Walker and Osterwald - 1963).

Uranium occurrences have also been reported north and northeast of Hillsboro, on the eastern flank of the Black Range, north of the town of Rincon, and at San Diego Mountain, northwest of the town of Radium Springs. Rare-earth and thorium occurrences have been reported in the Caballo Mountains (Haigler and Sutherland - 1965). The calcrete deposits in the Deming area suggest some potential as in intermediate grade uranium deposit (Arnold and Hill - 1980).

2.0 DATA INTERPRETATION

2.1 GENERAL

The Las Cruces quadrangle is dominated by north-south trending ridges and alluviated valleys that are predominantly the result of block faulting along north-south trending normal faults. There is almost 4,000 feet of local relief over the San Andreas Mountains in the eastern portion of the survey area, and over 1,000 feet of relief typify the northward trending topographic elements.

The major lithologic units and the Rio Grand River Valley follow the dominant structural trend, and washes, canyons, and arroyas trend east-west, off the ridges and into the valleys.

Numerous intrusive and extrusive igneous rocks occur throughout the Las Cruces quadrangle.

2.2 COMMENTARY ON RADIOMETRIC PROFILES

Relatively high frequency responses for thorium and potassium, with moderate response for uranium occur on the traverses in the northwestern portion of the survey area, in the vicinity of the Black Range-Mimbres Mountains, and in the region near the Florida Mountains in the southwest. Moderate to high responses for uranium, potassium and thorium occur in the region east of the town of Las Cruces near the Organ Mountains.

On Traverses 45 and 44 (and to some degree on Traverse 43) the bismuth correction profiles exhibit a high frequency response, relative to other profiles in the area.

2.3 URANIUM HISTOGRAMS

Relatively high eU concentrations are associated with six geologic units: Td, Tfg, QTg, Qal, QTs and Ph. Four of these units, Tfg, QTg, QTs and Ph, are sedimentary formations.

Geologic unit Td, the Datil Formation (undivided volcanics), exhibits the highest eU mean value, which is 3.0 ppm. This geologic unit has 730 records, and is therefore statistically significant. Geologic unit Tfg (fanglomerate and limestone conglomerate) has a mean eU value of 2.9 ppm, but only contains 49 records, and may not be especially significant statistically. Unit Qtg (Gila conglomerate), which

contains 446 records, has a mean eU value of 2.7 ppm. Geologic units Qal (Quaternary alluvium), QTs (Santa Fe Group) and Ph (Hueco limestone) all have mean values 2.6 ppm. Geologic units Qal and QTs both contain many records, 997 and 1174, respectively. Geologic unit Ph, however, only contains 85 records, and may not be statistically significant.

Geologic unit Qab (Quaternary alluvium, bolson and other surficial deposits) has 8499 records, the largest number of records in the survey area. This unit has a mean eU value of 2.3 ppm.

It is interesting to note that geologic unit Tvl (quartz, latite, rhyolite, and andesite) has a mean eU value of only 1.5 ppm, the lowest mean eU value in the survey area. Also, the mean eTh and K values of this geologic unit are 3.6 and 1.9 ppm, respectively. It seems unusual for a silicic volcanic unit to exhibit such low values, relative to other geologic units. This is probably due to the small number of records (8) of this unit.

LEGEND

- STATISTICALLY SIGNIFICANT $\pm$ U ANOMALIES
- PREFERRED ANOMALIES

FIGURE 1 LAS CRUCES QUADRANGLE

TABLE 1

DESCRIPTION OF MAP UNITS - LAS CRUCES(QUATERNARY)

Qal	Alluvium: Mainly flood plain deposits.
Qab	Alluvium, bolson and other surficial deposits.
Qb	Basalt Flows: Includes trachyte latite, andesite tuff and some intrusive rocks.
Qds	Dune sand.
Qp	Playa lake deposits.

(QUATERNARY, TERTIARY)

QTP	Pediment, terrace and other deposits of gravel, sand and caliche.
QTg	GILA CONGLOMERATE
QTS	SANTA FE GROUP, Undivided
QTB	Basalt and basaltic andesitic flows. Mostly conglomerates.

(TERTIARY)

Tt	THURMAN FORMATION
Tfg	Fanglomerate and limestone conglomerate. Includes WIMSATTVILLE FORMATION.
Tpl	PALM PARK FORMATION AND LOVE RANCH FORMATION
Tvu	Quartz latite, latite, and andesite. Pyroclastic rocks flows and intrusions.
Tv	Extrusive rocks of varied composition and age.
Tvl	Quartz latite, rhyolite and andesite.
Ta	Andesite, basalt, latite flows and pyroclastic rocks. Includes RUBIO PEAK FORMATION.
Td	DATIL FORMATION Thick sequence of undivided volcanics.

(TERTIARY, CRETACEOUS)

TKm	McRAE FORMATION
TKi	Intrusive rocks of various ages. Stocks laccoliths dikes sills and other forms of intrusions mostly felsic composition with chiefly porphyritic texture.

(CRETACEOUS)

K	Cretaceous Rock, Undivided: Early Cretaceous sedimentary rocks.
Kmv	MESAVERDE GROUP, Undivided: Mostly sandstone.
Kdm	Lower Part of MANCOS SHALE and DAKOTA SANDSTONE, Undivided.
Kv	Volcanic Rocks: Chiefly andesite but includes basalt dacite and rhyolite.

(PERMIAN)

Py	YESO FORMATION: SAN YSIDRO MEMBER and MESETA BLANCA SANDSTONE MEMBER.
Psa	SAN ANDRES LIMESTONE: Includes beds of the HONDO SANDSTONE MEMBER.
Pa	ABO SANDSTONE
Ph	HUECO LIMESTONE
P	PERMIAN ROCKS, Undivided.
IP	PENNSYLVANIAN ROCKS, Undivided.
IPMD	PENNSYLVANIAN, MISSISSIPPIAN AND DEVONIAN ROCKS, Undivided: Includes the MADEIRA LIMESTONE and SANDIA FORMATION, the KELLY and LAKE VALLEY LIMESTONE, and the LABELLERO FORMATION and the PERCHA SHALE FORMATION.
IPM	PENNSYLVANIAN AND MISSISSIPPIAN ROCKS, Undivided: Includes the SYRENA AND OSWALDO FORMATIONS and the LAKE VALLEY and KELLY LIMESTONES.

MD MISSISSIPPIAN AND DEVONIAN ROCKS, Undivided:
Includes HELMS FORMATION and RANCHERIA FORMATION, LAKE VALLEY LIMESTONE and CABALLERO FORMATION and PERCHA SHALE, SLY GAP FORMATION.

Me MISSISSIPPIAN, DEVONIAN, SILURIAN, ORDOVICIAN, and CAMBRIAN ROCKS, Undivided:
RANCHERIA and LAS CRUCES FORMATIONS, LAKE VALLEY LIMESTONE and CABALLERO FORMATION, PERCHA SHALE, SLY GAP, STAINBROOK and ONATE FORMATIONS. FUSSELMAN DOLOMITE, MONTOYA DOLOMITE and EL PASO LIMESTONE. BLISS SANDSTONE.

Dp PERCHA SHALE

soe SILURIAN, ORDOVICIAN, and CAMBRIAN ROCKS, Undivided: FUSSELMAN, VALMONT, MONTOYA DOLOMITE FORMATIONS, EL PASO LIMESTONE FORMATION and BLISS SANDSTONE.

pe PRECAMBRIAN ROCKS, Undivided.

TABLE 2
COMPARISON OF GEOLOGIC MAP SYMBOLS WITH COMPUTER DESIGNATIONS
LAS CRUCES QUADRANGLE

Computer Numeric Code	Computer Letter Code	Map Code
103	QAL	Qal
104	QAB	Qab
108	QB	Qb
109	QTG	QTg
111	QTB	QTb
112	QTS	QTs
114	TV	Tv
115	TVU	Tvu
116	TVL	Tvl
117	TKI	TKi
118	QDS	Qds
119	QP	Qp
120	QTP	QTp
121	TT	Tt
122	TFG	Tfg
123	TPL	Tpl
124	TKM	Tkm
125	TD	Td
126	TA	Ta
201	K	K
202	KMV	Kmv
203	KDM	Kdm
204	KV	Kv
302	PH	Ph
304	MD	MD
305	SOC	SOe
310	PY	Py
311	PSA	Psa
312	PA	Pa
314	PMD	IPMD
315	PM	IPM
316	P	IP
317	MC	Me
318	DP	Dp
405	PC	pe

TABLE 3 EQUIVALENT URANIUM ANOMALIES - LAS CRUCES (NI 13-10)

Anom. No.	F.L. No.	Geo. Fm.	Number of Points														
			eU			eTh			K			eU/eTh			eU/K		
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
1*	36	pE	4	-	2	-	-	-	-	-	-	-	-	-	2	-	-
2*	36	Qb	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-
3	36	Qb	4	-	2	2	-	2	1	-	2	2	-	-	-	-	-
4	36	Qb	2	1	-	-	-	-	2	-	-	1	2	-	1	-	-
5*	36	Qab,Qb	5	1	4	-	2	4	4	4	-	-	-	-	-	-	-
6	36	Qb	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-
7	36	Qab,QTs	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-
8	36	Qab	2	1	-	3	-	-	-	-	-	-	-	-	1	-	-
9	36	Qab	5	5	-	9	1	-	-	-	-	-	-	-	4	-	-
10*	36& 203	QTs,Qab	13	10	2	17	8	-	20	1	-	-	-	-	2	-	-
11	36	pE	3	1	-	1	-	3	-	-	-	-	-	-	1	-	-
12	201	IPMD	3	2	-	4	1	-	-	-	-	-	-	-	-	-	-
13	201	IPMD	-	2	-	1	1	-	-	2	-	-	-	-	-	-	-
14*	37	Qab,Ta	2	8	1	4	-	-	3	4	-	1	-	-	-	-	-
15	37	Qab	11	1	-	2	-	-	8	-	-	-	-	-	2	-	-
16	37	Qab	3	1	-	2	-	-	-	-	-	-	-	-	2	-	-
17	37	Qab	12	3	-	5	-	-	-	-	-	-	-	-	2	-	-
18	37	Qab	6	-	-	5	-	-	-	-	-	-	-	-	2	-	-
19	203	QTs	2	2	-	1	-	-	-	-	-	-	-	-	1	-	-
20*	203	Qab,QTs	4	1	1	3	-	-	1	-	-	-	-	-	1	-	-
21*	200	QTb	6	6	1	5	7	-	9	4	-	-	-	-	2	-	-
22	38	Td	5	-	-	2	-	-	1	1	-	1	-	-	2	-	-
23	38	QTs,Qb	4	-	-	1	-	3	-	-	-	-	-	-	1	-	-
24	38	Qab,QTs	11	2	-	7	-	-	-	-	-	-	-	-	4	-	-
25	203	QTs,Qal	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26*	203	QTs	6	2	1	2	-	-	1	-	-	1	2	-	1	2	-
27	203	QTs,Qal	4	2	-	2	-	-	2	-	-	-	-	-	1	-	-
28	38	QTs	3	1	-	-	-	-	-	-	-	-	-	-	4	-	-
29*	39	QTs,Tpl,SOE	-	4	3	-	5	2	2	4	1	-	-	-	-	-	-
30*	39	SOE,Ta	1	2	1	-	2	1	3	-	-	-	-	-	-	-	-

* PREFERRED ANOMALIES

TABLE 3 EQUIVALENT URANIUM ANOMALIES - LAS CRUCES (NI 13-10)

Anom. No.	F.L. No.	Geo. Fm.	Number of Points														
			eU			eTh			K			eU/eTh			eU/K		
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
31*	39	Ta	1	3	1	1	1	3	3	-	-	-	-	-	-	-	-
32*	39	Ta, IPMD	2	1	1	1	1	2	3	1	-	-	-	-	-	-	-
33	39	Ta	2	1	-	-	3	-	2	1	-	-	-	-	-	-	-
34*	40	IPMD	1	3	1	1	2	2	3	2	-	-	-	-	-	-	-
35*	40	QTg,QTb,Td	1	3	5	1	1	5	4	2	-	-	-	-	2	5	1
36*	40	QTb	2	1	1	1	2	1	4	-	-	-	-	-	1	-	-
37*	40	Td,Ta	5	8	1	3	4	7	5	1	-	-	-	-	4	1	-
38	40	Td	5	-	-	2	1	-	-	-	-	-	-	-	2	-	-
39*	40& 201	Td,Ta	10	6	3	14	2	3	8	1	-	-	-	-	4	5	-
40	40	IPMD	6	-	-	-	-	-	-	-	-	1	-	-	-	-	1
41	40	Qab	3	2	-	1	4	-	-	-	-	-	-	-	3	-	-
42	40	Qab	5	-	-	2	1	-	-	-	-	-	-	-	2	-	-
43	40	Qab	4	-	-	4	-	-	-	-	-	-	-	-	-	-	-
44	40	Qab	5	1	-	6	-	-	-	-	-	-	-	-	2	-	-
45	40	Qab	5	-	-	4	-	-	-	-	-	-	-	-	5	-	-
46	40	QTs	7	-	-	2	-	-	-	-	-	-	-	-	-	-	-
47	203	QTs,Qal	5	2	-	1	-	-	1	-	-	-	-	-	3	-	-
48	203	QTs	4	-	-	3	-	-	-	-	-	-	-	-	-	-	-
49	41& 203	QTs	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	41	QTb	2	1	-	3	1	1	1	1	-	-	-	-	-	-	-
51*	41	QTg,Td	8	7	8	8	9	6	8	1	-	-	-	-	10	5	4
52*	41	Td	3	1	4	3	1	3	2	-	-	-	-	-	3	1	3
53*	41	Td	3	2	2	1	3	1	2	-	-	-	-	-	2	2	2
54	201	QTb,Td	2	2	-	-	2	1	-	3	1	-	-	-	-	-	-
55	41	IPMD	2	1	-	-	1	-	3	-	-	-	-	-	-	-	-
56	42	QTg	3	1	-	1	3	-	2	1	-	-	-	-	1	-	-
57	42	QTg	4	1	-	5	-	-	3	-	-	-	-	-	2	-	-
58	42& 201	QTb	4	3	-	5	1	-	2	4	1	-	-	-	1	-	-

* PREFERRED ANOMALIES

TABLE 3 EQUIVALENT URANIUM ANOMALIES - LAS CRUCES (NI 13-10)

			Number of Points														
Anom. No.	F.L. No.	Geo. Fm.	eU			eTh			K			eU/eTh			eU/K		
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
59	43	QTg	5	1	-	6	-	-	2	-	-	-	-	-	6	-	-
60	201	QTb	7	1	-	8	-	-	8	-	-	-	-	-	-	-	-
61	43	Qab,QTb	14	-	-	8	1	-	-	-	-	1	-	-	8	-	-
62	204	Qab	2	1	-	-	-	-	-	-	-	2	-	-	2	1	-
63	44	Qab	3	2	-	2	-	-	-	-	-	-	-	-	2	1	-
64	44	QTg	4	2	-	5	-	-	4	-	-	-	-	-	4	-	1
65	44& 201	QTg,Ta	5	2	-	6	-	-	-	-	-	-	-	-	3	1	-
66	44	QTb,Ta	5	3	-	1	3	1	1	1	-	-	-	-	2	-	-
67	44	Qab	6	-	-	5	-	-	-	-	-	-	-	-	1	-	-
68	44	Qab	4	2	-	-	-	-	-	-	-	1	-	-	6	-	-
69	44	Qab	5	-	-	-	-	-	-	-	-	1	-	-	4	-	-
70	44	Tvu	5	4	-	3	-	-	-	-	-	5	1	-	1	-	-
71	44	Qab	6	1	-	3	-	-	-	-	-	-	-	-	7	-	-
72	44	Qab	2	1	-	1	-	-	-	-	-	-	-	-	1	2	-
73	44& 203	Qab	8	1	-	-	-	-	-	-	-	2	-	-	6	1	1
74	44	Qal	6	-	-	-	-	-	-	-	-	1	3	-	5	1	-
75	44	Qab	4	-	-	-	-	-	-	-	-	-	2	2	2	2	-
76	45& 200	Qal,Ta,Td	5	-	-	2	3	-	5	-	-	-	-	-	-	-	-
77	45	Qal,Ta	4	3	-	-	-	-	5	2	-	-	-	-	-	-	-
78	45	Qab	2	5	-	7	-	-	4	1	-	-	-	-	1	-	-
79*	45	Qab	3	4	1	8	-	-	-	-	-	-	-	-	3	2	-
80	45	Qab	6	3	-	9	-	-	1	-	-	-	-	-	5	-	-
81	45	Qab	3	2	-	5	-	-	-	-	-	-	-	-	3	-	-
82	45	Qab	6	-	-	6	-	-	-	-	-	-	-	-	1	-	-
83	45	Qab	5	-	-	3	-	-	-	-	-	-	-	-	2	-	-
84	45	Qab	5	3	-	-	-	-	-	-	-	4	2	-	8	-	-
85	45	Qab	4	-	-	-	-	-	-	-	-	3	1	-	3	-	-
86*	45	QTs,Qal	4	5	2	-	-	-	1	-	-	7	1	-	5	3	1

* PREFERRED ANOMALIES

TABLE 3 EQUIVALENT URANIUM ANOMALIES - LAS CRUCES (NI 13-10)

			Number of Points														
Anom.	F.L.		eU			eTh			K			eU/eTh			eU/K		
No.	No.	Geo. Fm.	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
87	45	QTs,Qab	3	2	-	-	-	-	-	-	-	1	1	3	2	2	1
88	45	Qab	4	1	-	-	-	-	-	-	-	-	-	5	-	4	1
89	45	Tvu	5	1	-	-	-	-	-	-	-	-	1	5	4	2	-
90	45	Qab,QTs	4	-	-	-	-	-	-	-	-	-	1	3	-	4	-
91	45	QTs	3	1	-	-	-	-	-	-	-	-	3	1	-	3	1
92	45	Qab,SOE,TKi	5	12	-	-	-	-	-	-	-	3	9	2	1	4	11
93	200	Qab	4	-	-	-	-	-	-	-	-	-	-	-	1	-	-
94	46	Qab	6	-	-	5	-	-	2	-	-	-	-	-	-	-	-
95	201	QTg	5	1	-	-	4	-	4	-	-	-	-	-	-	-	-
96	201	K	2	1	-	3	-	-	3	-	-	-	-	-	-	-	-
97	47	Tvu	2	1	-	3	-	-	2	1	-	-	-	-	-	-	-
98	47	Tvu,Ta	-	2	-	1	1	-	2	-	-	-	-	-	-	-	-
99	47	Ph	4	-	-	2	1	-	3	-	-	-	-	-	-	-	-
100	47	Qab	6	-	-	5	-	-	5	-	-	-	-	-	-	-	-
101	200	Qab	1	3	-	1	-	-	-	-	-	-	-	-	3	-	-
102	48	Qab,Tvu	2	2	-	3	1	-	3	-	-	-	-	-	-	-	-
103	103	QTb,Tvu	-	2	-	2	-	-	2	-	-	-	-	-	-	-	-
104	104	Tvu	4	-	-	3	-	-	3	1	-	-	-	-	-	-	-
105	48	Qab,QTs	4	-	-	-	4	-	-	3	1	-	-	-	-	-	-
106	48	QTs	2	2	-	1	3	-	4	-	-	-	-	-	-	-	-
107*	48	Qab,SOE,TKi	8	6	1	12	3	-	4	9	2	-	-	-	-	-	-
108	48	TKi,Tvu	3	1	-	3	1	-	4	-	-	-	-	-	-	-	-
109	48	TKi,Tvu	2	3	-	-	5	-	5	-	-	-	-	-	-	-	-
110*	48	Tvu,TKi	10	6	2	5	12	1	15	3	-	-	-	-	5	-	-
111	200	Qab	5	2	-	-	-	-	-	-	-	-	-	-	3	-	-
112	200	Qab	3	1	-	-	-	-	-	-	-	-	-	-	1	-	-
113	200	Qab	6	2	-	5	-	-	-	-	-	-	-	-	3	-	-
114	49	Tvu,Qab	3	2	-	1	4	1	1	3	1	-	-	-	-	-	-
115	49	QTs	4	1	-	5	-	-	5	-	-	-	-	-	-	-	-
116	206	Qab	2	2	-	-	-	-	-	-	-	1	-	-	1	-	-
117	200	Qab	3	4	-	6	-	-	-	-	-	-	-	-	4	-	-

* PREFERRED ANOMALIES

TABLE 3 EQUIVALENT URANIUM ANOMALIES - LAS CRUCES (NI 13-10)

Anom. No.	F.L. No.	Geo. Fm.	Number of Points														
			eU			eTh			K			eU/eTh			eU/K		
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
118	205	Ta, Pa	4	-	-	-	-	-	-	-	-	1	1	1	1	1	1
119	206	Qab	3	1	-	-	-	-	-	-	-	1	-	-	-	1	-
120	206	Qab	5	-	-	-	-	-	-	-	-	-	-	-	3	-	-
121 *	51	Tvu, Qab	1	3	2	-	2	4	2	-	-	-	-	-	2	3	-
122 *	51 & 206	Qab, Ph	8	11	17	-	8	1	8	-	-	-	3	1	3	-	-
123	200	Qab	2	1	-	-	-	-	2	-	-	1	-	-	-	-	-
124	52	Qal	3	1	-	3	-	-	2	-	-	-	-	-	-	-	-
125	201	Qab	5	-	-	-	-	-	-	-	-	-	-	-	1	-	-
126	52	Qal	5	1	-	6	-	-	4	2	-	-	-	-	-	-	-
127	201	Qab	9	1	-	2	-	-	1	-	-	-	-	-	1	-	-
128	52	Qal	3	2	-	5	-	-	3	2	-	-	-	-	1	-	-
129	52	Qab, Qal	7	1	-	8	-	-	3	3	-	-	-	-	1	-	-
130	52	Qab	4	-	-	1	-	-	-	-	-	-	-	-	1	-	-
131	52	Qab	11	1	-	3	-	-	-	-	-	3	-	-	4	-	-
132	52	Qab	2	1	-	-	-	-	-	-	-	-	-	-	2	1	-
133	52	Qab	5	3	-	-	-	-	-	-	-	4	-	-	5	2	-
134 *	52	Qab	2	1	1	-	-	-	-	-	-	-	-	4	1	-	3
135	52	Qab	2	1	-	-	-	-	-	-	-	-	2	1	2	1	-
136	52	QTs	5	-	-	-	-	-	-	-	-	3	2	-	5	-	-
137 *	52	Qal	10	14	3	5	1	-	5	1	-	13	-	1	9	5	2
138 *	52 & 206	Qab, Tvu, Ph	7	15	29	2	2	35	3	14	20	4	1	2	17	1	2
139	53	Qab	6	3	-	-	-	-	7	-	-	2	-	-	2	-	-
140	53	Qab	4	-	-	-	-	-	-	-	-	1	-	-	-	-	-
141	53	Qab	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
142	53	Qab	8	1	-	5	-	-	7	-	-	-	-	-	-	-	-
143	53	Qab	4	2	-	3	-	-	-	-	-	-	-	-	2	-	-
144	53	Qab	1	2	-	3	-	-	-	-	-	-	-	-	3	-	-
145	53	Qab	8	1	-	9	-	-	4	-	-	-	-	-	-	-	-
146	53	Qab	2	1	-	3	-	-	1	-	-	-	-	-	1	-	-

* PREFERRED ANOMALIES

TABLE 3 EQUIVALENT URANIUM ANOMALIES - LAS CRUCES (NI 13-10)

Anom. No.	F.L. No.	Geo. Fm.	Number of Points														
			eU			eTh			K			eU/eTh			eU/K		
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
147	53	Qab	3	1	-	3	-	-	1	-	-	-	-	-	1	-	-
148 *	53	Qab	13	25	4	6	-	-	-	-	-	14	3	1	26	10	-
149	53	Qab	2	4	-	-	-	-	2	-	-	1	-	-	3	-	-
150	53	Tfg, Qab	9	3	-	-	-	-	-	-	-	7	1	-	10	1	-
151	53	Qab, Tfg	1	6	-	5	-	-	6	-	-	1	-	-	2	-	-
152	53	Tfg, Qab	7	7	3	12	3	1	8	8	-	-	-	-	2	-	-
153	53	Qab	7	2	-	-	-	-	-	-	-	3	-	-	7	1	1
154	53	Qab	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-
155	53	Qab	6	1	-	1	-	-	-	-	-	-	-	-	3	-	-
156	53	Qab	4	1	-	-	-	-	-	-	-	2	-	-	2	-	-
157	53	Qab	3	2	-	-	-	-	-	-	-	4	-	-	2	-	-
158	53	Qab	2	1	-	-	-	-	-	-	-	1	2	-	1	-	-
159 *	53	Qb	4	6	3	1	-	-	6	-	-	5	3	2	5	1	-
160	53	Qal	13	-	-	-	-	-	-	-	-	8	2	1	10	3	-
161	206	QTs	4	-	-	-	-	-	-	-	-	-	3	1	3	-	-
162	206	Qal	3	1	-	-	-	-	-	-	-	2	-	-	2	-	-
163	206	Qal	3	1	-	-	-	-	-	-	-	2	1	1	3	-	-
164 *	53	Qab, Tvu	2	10	27	1	1	37	2	3	33	-	-	-	1	-	-
165	54	Qab	4	-	-	1	-	-	1	3	-	-	-	-	-	-	-
166	54	Qab	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-
167	54	Qab	7	-	-	6	-	-	-	-	-	-	-	-	1	-	-
168	54	Qab	2	1	-	-	-	-	-	-	-	-	-	-	1	-	-
169	54	Qab	11	1	-	12	-	-	7	-	-	-	-	-	1	-	-
170	54	Qab	4	-	-	2	-	-	-	-	-	-	-	-	-	-	-
171	54	Qab	2	1	-	1	-	-	1	-	-	-	-	-	-	-	-
172	54	Qab	1	2	-	1	-	-	3	-	-	-	-	-	-	-	-
173	54	Qab	10	-	-	1	-	-	10	-	-	-	-	-	-	-	-
174 *	54	Qab, Tvu	3	1	1	2	-	-	4	1	-	-	-	-	-	-	-
175 *	54	Tvu	4	1	-	1	4	-	-	1	4	-	-	-	-	-	-
176	54	Tfg	6	-	-	6	-	-	1	-	-	-	-	-	-	-	-
177 *	54	Qab	3	3	7	1	2	10	2	2	1	-	-	-	-	-	-

* PREFERRED ANOMALIES

TABLE 3 EQUIVALENT URANIUM ANOMALIES - LAS CRUCES (N. 13-10)

Anom. No.	F.L. No.	Geo. Fm.	Number of Points												eU			eTh			K			eU/eTh			eU/K		
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
178*	54	QTs, Qb	1		2	1																							
179	54	QTs, Qab	5			4	2		5																				
180	55	Qab	8						1																				
181	55	Qab	4						4																				
182*	55	Qab	1						6																				
183	55	Qab	2						3																				
184	55	Qab	4						3																				
185	206	Qab	10						3																				
186	56	Qab	4																										
187	56& Qab		11																										
	200																												
188	56	Qab	10			10	2																						
189	57& Qab		1																										
	200																												
190*	57	Qab	1			1																							
191	200	Qab																											
192*	58& Qab, Tvu		7																										
	200																												

* PREFERRED ANOMALIES

2.4 URANIUM ANOMALY MAPS - LAS CRUCES, NEW MEXICO
SELECTED AND PREFERRED ANOMALIES

A total of 192 statistically significant eU anomalies were found in the Las Cruces quadrangle (see Table 3). Of the 192 significant eU anomalies, 39 have been selected as preferred anomalies. These preferred anomalies show a relative enrichment of eU over eTh and K, and exhibit uranium concentration levels of over three standard deviation units relative to their individual lithologic units. These preferred anomalies occur primarily over the igneous rocks and quaternary alluvium of the Organ Mountains in the southeast portion of the survey area, the Florida Mountains - Deming, and the Mimbres Mountains in the northwest.

Preferred Anomalies

Quaternary alluvium and curfioial deposits	25
Quaternary and Tertiary intrusive and extrusive rocks	28
Quaternary and Tertiary sedimentary rocks	3
Permian sedimentary rocks	2
Pennsylvanian, Mississippian, and Devonian sedimentary rocks	2
Silurian, Ordovician and Cambrian sedimentary rocks	3
Total sedimentary rocks	10
Precambrian rocks	1

These preferred anomalies appear to have high eU potentials indicating true uranium enrichment, and thus warrent additional investigation. This selection has taken into consideration the statistical adequacy of the sampling.

Anomaly 1

This anomaly, which occurs exclusively over geologic unit pE, is a small, high-frequency feature. This is the only anomaly associated with unit pE, Precambrian Rocks, Undivided. This anomaly lies over a northward trending fault and near a small mine.

Anomalies 2, 5, and 14

These anomalies occur on the eastern flank of the Black Range Mountains, just northeast of the town of Hillsboro. Anomaly 2, a small, high-frequency feature, reportedly occurs exclusively over geologic unit Qb (Basalt Flows). Anomaly 5, a slightly more extensive feature, reportedly lies over geologic unit Qb, and Qab (Bolson and other Surficial Deposits). This anomaly lies over a zone of several faults. Anomaly 14, to which Anomalies 2 and 5 appear related, lies over geologic units Qab and Ta (Andesite and Basalt Flows and Pyroclastic Rocks). These three anomalies lie in the vicinity of reported uranium occurrences north and northeast of the town of Hillsboro (Haigler and Sutherland-1965).

Anomalies 10, 20, 26, and 29

These anomalies lie just west of Caballo Reservoir and are associated with geologic unit QTs (Santa Fe Group). Anomaly 26 occurs exclusively over this unit, while anomalies 10 and 20 also lie over lithologic unit Qab, and Anomaly 29 reportedly occurs in conjunction with units Tpc (Palm Park and Love Ranch Formations) and SOE (Silurian through Cambrian Rocks, Undivided). However, the major portion of these anomalies occurs over unit QTs. This unit contains varying amounts of conglomerate and gravel, and may locally contain tuff and rhyolite and basalt flows. All of these anomalies appear to lie over arroyas and other drainage features. These features lie west of an area of reported rare-earth and thorium occurrences. Unfortunately, the flight lines stopped short of this region.

Anomaly 21

This anomaly occurs over lithologic unit QTb (Basalt and Basaltic Andesitic Flows), just east of Stitzel Canyon in the Black Range. The northern portion of this anomaly lies near a northwestward trending fault. Gem and ornamental stones are reportedly extracted in the general vicinity of this anomaly (Haigler and Sutherland-1965).

Anomaly 34

This anomaly occurs exclusively over geologic unit IPMD (Pennsylvanian, Mississippian and Devonian Rocks, Undivided). Anomaly 34 lies over a fault zone near the town of Mimbres.

Anomalies 30, 31, 32, 35, 36, 37, 39, 51, 52, and 53

These anomalies lie over geologic units Ta (Andesite, Basalt, Latite Flows and Pyroclastic Rocks) and Td (Datil Formation - a thick sequence of volcanics). Anomalies 52 and 53 occur exclusively over unit Td, while Anomaly 31 occurs exclusively over unit Ta. All of these anomalies occur in the vicinity of the Mimbres Mountains. A uranium prospect occurs in the general vicinity of these mountains (Walker and Osterwald-1963).

Anomaly 30 lies directly over a northward trending fault, and also occurs over a portion of geologic unit SOE. Anomaly 30 lies on the western side of a northward trending fault. Anomaly 32 also lies over a portion of geologic unit IPMD. Anomalies 51, and 35 lie over a portion of unit QTg (Gila conglomerate) in addition to the Datil Formation. While Anomaly 36 occurs exclusively over unit QTb (Bolson and Surficial Deposits) its proximate location to unit Td suggests that the surficial deposits associated with this anomaly are composed of detritus derived from these volcanic rocks.

Anomaly 79

This anomaly, which occurs exclusively over geologic unit Qab (Bolson and Surficial Deposits) lies over Macho Creek, just southwest of the Mimbres Mountains. This anomaly may be caused by outwash from the mountains that was deposited in this creekbed. A uranium occurrence is reported to lie approximately 3 to 4 miles west-northwest of this anomaly (Haigler and Sutherland-1965).

Anomaly 86

This anomaly, which lies over geologic unit QTs (Santa Fe Group) and Qal (alluvium), lies just southwest of San Diego Mountain. This anomaly occurs in the Rio Grande floodplain. As mentioned previously (Radioactive Minerals) uranium is reported to occur at San Diego Mountain (Haigler and Sutherland-1965).

Anomalies 107 and 110

These anomalies occur in association with geologic unit TK (Intrusive Rocks of Various Ages). Anomaly 107, which lies on the western side of the Rio Grande River near Lookout Peak, also occurs over geologic units SOe and Qab. Anomaly 110, which lies on the east side of the Rio Grande River, near Dona Ana Peak, also occurs over geologic unit Tvu (Quartz Latite, Latite and Andesite).

Anomaly 121

This anomaly, which lies approximately 10 to 12 miles southwest of Anomaly 107, occurs in association with geologic units Tvu and Qab. Anomaly 121 lies over the Sleeping Lady Hills, and may be genetically related to Anomalies 107 and 110.

Anomalies 148, 174, 175, 177 and 182

These anomalies appear to be related to the Florida Mountains and the Deming Calcrete. These five anomalies occur over geologic units Qab (Bolson and Alluvial Deposits) and Tvu (Quartz Latite, Latite and Andesite). Anomaly 175 occurs exclusively over Tvu, while Anomalies 148, 177 and 182, occur exclusively over Qab. Anomalies 174, 175 and 177, lie on the flanks of Little Florida Mountain. Minerals mined in the Florida Mountain District include: fluorite, barite, iron, lead, copper, zinc, silver and manganese. Anomalies 148 and 182 appear to be related to the calcrete deposits of Deming. Anomaly 148, which lies just south of Deming, is a rather extensive feature.

As mentioned previously (Radioactive Minerals), the calcrete deposits in the Deming area reportedly represent a favorable environment for intermediate grade uranium deposits. (Arnold and Hill-1980).

Anomaly 159

This anomaly, which lies approximately 4 to 5 miles east-northeast of the town of Cambray, occurs over geologic unit Qb (Basalt Flows). Anomaly 159 occurs very close to the contact between the basalt flow and geologic unit Qab.

Anomalies 190 and 192

These two anomalies, which lie near the Burdick Hills in the extreme southwest corner of the quadrangle, occur over geologic units Qab and Tvu. Anomaly 190 occurs exclusively over unit Qab. The area in which these anomalies occur contains numerous igneous flows and intrusions. There are several small mines in the vicinity of these anomalies. We were not able to determine the nature of the mining operations in this area.

Anomalies 122, 134, 137, 138, 164, and 178

These anomalies all occur in the vicinity of the town of Las Cruces. With the exception of Anomaly 178, all of these anomalies occur over geologic unit Qab, in association with other units. Anomalies 134, 137, and 138, occur exclusively over unit Qab, while Anomaly 122 also occurs over unit Ph (Hueco limestone), and Anomaly 164 also lies over unit Tvu (Latite and Andesite). Anomaly 178 is a small isolated feature that lies just south of Anomaly 137. Anomaly 178 lies over geologic unit Qts (Santa Fe Group) along the Rio Grande River, near Santo Tomas. Anomaly 134, which lies directly west of Anomaly 137, also occurs along the Rio Grande River.

Anomaly 137 is a rather extensive feature, and lies over the town of Las Cruces. This anomaly may be due to cultural features.

Anomalies 122, 138, and 164, all occur east of the town of Las Cruces. These three anomalies all are extensive high-frequency features, and may represent the most anomalous region in the quadrangle. Extensive excavations appear to be taking place in this region. We were not able to determine the nature of these excavations from existing data. From examination of film records it appears that these excavations are related to some type of construction activity.

2.5 CONCLUSIONS

Thirty nine of the 192 anomalies which occur in the survey area have been classified as preferred, as indicated in Table 3. The possibility of the occurrence of uranium prospects is based on the location of the anomaly with respect to geology, and structural, topographic, and cultural features. There are four general regions of uranium enrichment that occur in the survey area: the Deming - Florida Mountain region in the southwest, the Black and Cooke Range and Mimbres Mountain region in the northwest, the Caballo area in the north-central region, and the region just east of the town of Las Cruces, near Tourtugas Mountain. Other areas of minor interest include the regions near Anomalies 79, 86, 107, 110, 121, 159, 190, and 192.

2.6 SUGGESTIONS FOR FURTHER WORK

The primary objective of this survey is to locate regions favorable for the occurrence of uranium. The probability of encountering individual deposits in this type of survey is usually quite low. However, the areas mentioned in the preceding section (Conclusions) warrant further investigation. In addition, the area east of the town of Las Cruces should be field checked to determine the source of Anomalies 122, 138, and 164.

Further work can be considered in three general categories:

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

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

3.0 REFERENCES

3.1 BIBLIOGRAPHY

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3.2 MAPS

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

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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
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
ANOMALY MAP - 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

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

ANOMALY MAP-URANIUM/THORIUM

1979

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PREPARED FOR

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
ANOMALY MAP-URANIUM/POTASSIUM
1979
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EXPLANATION

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

ANOMALY MAP - THORIUM/POTASSIUM

1979

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CONTOUR INTERVAL 20 GAMMAS

SCALE 1:500,000

LAS CRUCES NI 13-10
MAGNETIC

CONTOUR INTERVAL 0.50 PPM

SCALE 1:500,000

LAS CRUCES NI 13-10
URANIUM

CONTOUR INTERVAL 1.0 PPM

SCALE 1:500,000

LAS CRUCES NI 13-10
THORIUM

CONTOUR INTERVAL 25%

SCALE 1:500,000

LAS CRUCES NI 13-10
POTASSIUM

CONTOUR INTERVAL 0.10 UNITS

SCALE 1:500,000

LAS CRUCES NI 13-10
URANIUM/THORIUM

CONTOUR INTERVAL 0.50 UNITS

SCALE 1:500,000

LAS CRUCES NI 13-10
URANIUM/POTASSIUM

CONTOUR INTERVAL 0.50 UNITS

SCALE 1:500,000

LAS CRUCES NI 13-10
THORIUM/POTASSIUM

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

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

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

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979
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SCALE 1:500,000

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

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SCALE 1:500,000

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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY	
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SCALE 1:500,000

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SCALE 1:500,000

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SCALE 1:500,000

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N.D.T INDICATED DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

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N.U.T INDICATES DATA FAILED
STATISTICAL REEVALUATION

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979
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K.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
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N.U.T. INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
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N.U.T INDICATED DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
RADIO-METRIC MULTIPLE PARAMETER STACKED PROFILES
1979

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N.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

NURÉ AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944
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N.U.T. INDICATED DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 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/5/DIV

ALT
100 FT/DIV

MAG
100 GAMMAS/DIV

P 58

↑ FLAGGED SAMPLE VALUES OF
K.U.T INDICATES DATA FAILED
DIRT/DIRTAL MUD/MUDY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
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↑ FLOODED SAMPLE VALUES OF
N.U.T. INDICATES DATA FAILED
STATISTICAL REGRESSION TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979
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+ FLAGGED GRAPHIC VALUES UP
K.U.T. INDICATED DATA FAILED
STATISTICAL ACCURACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979
BY CARSON HELICOPTERS, INC. 32-M BLOOMING OLEN 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
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979
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↑ FLOODED SAMPLE VALUES OF
H.V.T. INDICATOR DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979
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K.D.T INDICATES DATA FAILED
STATISTICAL FREQUENCY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY	
NEW MEXICO-LAS CRUCES NE 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979	
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N.U.T INDICATES DATA FAILED
STATISTICAL ADEQUACY TEST

SCALE 1:500,000

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
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1979
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↑ FLOODED SAMPLE VALUES OF
D.U.F. INDICATES DATA FAILURE
STATISTICAL ADEQUACY TEST

SCALE 1:500,000

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES N. 13-10 QUADRANGLE
RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES
1979

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DEPARTMENT OF ENERGY

FLADDED SAMPLE VALUES OF
N.U.T INDICATED DATA FAILED
STATISTICAL ADEQUACY TEST

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE RADIOMETRIC MULTIPLE PARAMETER STACKED PROFILES 1979
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⊕ EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES NI 13-10 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

PREPARED FOR
DEPARTMENT OF ENERGY

SCALE 1:500,000

⚡ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979
BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKINS, MO 64944
PREPARED FOR DEPARTMENT OF ENERGY

SCALE 1:500,000

↑ EXCEEDS ALTITUDE SPECIFICATION

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE MAGNETIC AND ANCILLARY STACKED PROFILE DATA
1979
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BY CARSON HELICOPTERS, INC. 32-H BLOOMING GLEN RD. PERKASIE, PA 18944 PREPARED FOR DEPARTMENT OF ENERGY

SCALE 1:600,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 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

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MM/DIV

P 42

↑ EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
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SCALE 1:500,000

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MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MM/DIV

P 46

SCALE 1:500,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 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
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MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MM/DIV

P 49

45820 45600 45400 45200 45000 44800 44600 44400 44200 44000 43800 43600 43400 43200 43114

SCALE 1:500,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
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MAG
40 GAUSS/DIV

DIURNAL
40 GAUSS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALI
10.00 MM/DIV

P 50

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
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MAG
40 GAMS/DIV

DIURNAL
40 GAMS/DIV

ALT
100 FT/DIV

TEMP
5.000000/DIV

BAR ALT
10.000000/DIV

P 53

↑ EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 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

MAG
40 GAUSS/DIV

DIURNAL
40 GAUSS/DIV

HLI
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BHR HLI
10.00 MM/DIV

P 54

SCALE 1:500,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 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

MAG
40 GAUSS/DIV

DIURNAL
40 GAUSS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

RAR ALT
10.00 MM/DIV

P 55

SCALE 1:100,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 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

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MM/DIV

P 56

SCALE 1:500,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES NI 13-10 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

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MM/DIV

P 57

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 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

MAG
40 GAUSS/DIV

DIURNAL
40 GAUSS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MM/DIV

P 58

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY
NEW MEXICO-LAS CRUCES NI 13-10 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
NEW MEXICO-LAS CRUCES NI 13-10 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
NEW MEXICO-LAS CRUCES NI 13-10 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 1:600,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC
RECONNAISSANCE SURVEY

NEW MEXICO-LAS CRUCES NI 13-10 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

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREES/DIV

BAR ALT
10.00 MMHG/DIV

TL 204

SCALE 1:500,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY	
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE MAGNETIC AND ANCILLARY STACKED PROFILE DATA	
1979	
BY CARSON HELICOPTERS, INC. 32-H BLOOMING OLEN RD. PERKASIE, PA 18944	
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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
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SCALE 1:500,000

↑ EXCEEDS ALTITUDE SPECIFICATIONS

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
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DEPARTMENT OF ENERGY

MAG
40 GAMMAS/DIV

DIURNAL
40 GAMMAS/DIV

ALT
100 FT/DIV

TEMP
5.00 DEGREE/DIV

BAR ALT
10.00 MM/DIV

TL 207 49552 49400 49280

↑ EXCEEDS ALTITUDE SPECIFICATIONS

SCALE 1:500,000

NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY	
NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE MAGNETIC AND ANCILLARY STACKED PROFILE DATA 1979	
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NURE AERIAL GAMMA-RAY AND MAGNETIC RECONNAISSANCE SURVEY
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NEW MEXICO-LAS CRUCES NI. 13-10 QUADRANGLE

GEOLOGIC UNIT QAL

POTASSIUM%

RECORDS 985

232. X
220. XX
208. XX
197. XX
185. XX
174. XX
162. XX
150. XX
139. XX
127. XX
116. XX
104. XX
92. XXX
81. XXX
69. XXXXX
58. XXXXX
46. XXXXXXXX
34. XXXXXXXX
23. XXXXXXXX
11. XXXXXXXX

0.....4
C
MEAN 2.0 SIGMA 0.4

U/K RATIO

RECORDS 972

173. X
165. X
156. X
147. X
139. XX
130. XX
121. XXX
113. XXX
104. XXXX
95. XXXXX
87. XXXXXX
78. XXXXXX
69. XXXXXX
60. XXXXXX
52. XXXXXX
43. XXXXXX
34. XXXXXX
26. XXXXXX
17. XXXXXX
8. XXXXXX

0.....3
C
MEAN 1.3 SIGMA 0.4

URANIUM PPM

RECORDS 977

140. X
133. X
126. XX
119. XX
112. XXX
105. XXX
93. XXXX
91. XXXXX
84. XXXXX
77. XXXXX
70. XXXXX
63. XXXXXXXX
56. XXXXXXXX
49. XXXXXXXX
42. XXXXXXXX
35. XXXXXXXX
28. XXXXXXXX
21. XXXXXXXX
14. XXXXXXXX
7. XXXXXXXX

0.....5
C
MEAN 2.6 SIGMA 0.8

U/T RATIO

RECORDS 972

170. X
161. X
153. X
144. X
136. XX
127. XXX
119. XXX
110. XXX
102. XXXX
93. XXXX
85. XXXXX
76. XXXXXX
68. XXXXXX
59. XXXXXX
51. XXXXXX
42. XXXXXX
34. XXXXXX
25. XXXXXX
17. XXXXXX
8. XXXXXX

0.....1
C
MEAN 0.3 SIGMA 0.1

THORIUM PPM

RECORDS 985

190. X
180. X
171. X
161. X
152. XX
142. XX
133. XX
123. XXX
114. XXXX
104. XXXX
95. XXXX
85. XXXX
76. XXXX
66. XXXX
57. XXXXX
47. XXXXX X
38. XXXXXXXX
28. XXXXXXXX
19. XXXXXXXX
9. XXXXXXXX

0.....20
C
MEAN 8.7 SIGMA 2.9

T/K RATIO

RECORDS 985

152. X
144. XX
136. XXXX
129. XXXX
121. XXXX
114. XXXX
106. XXXX
98. XXXXX
91. XXXXX
83. XXXXXX
76. XXXXXX
68. XXXXXX
60. XXXXXX
53. XXXXXX
45. XXXXXX
38. XXXXXX
30. XXXXXX
22. XXXXXX
15. XXXXXX
7. XXXXXX X

0.....7
C
MEAN 4.2 SIGMA 0.9

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
GEOLOGIC UNIT QAB

NEW MEXICO-LAS CRUCES NL 13-10 QUADRANGLE
GEOLOGIC UNIT QB

NEW MEXICO-LAS CRUCES N. 13-1C QUADRANGLE
GEOLOGIC UNIT QTG

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

GEOLOGIC UNIT QTB

POTASSIUM

RECORDS 595

78. XX
75. XX
71. XXX
67. XXX
63. XXXX
59. XXXX
55. XXXX
51. XXXX
47. XXXX
43. XXXXXX
39. XXXXXXXX
35. XXXXXXXX
31. XXXXXXXX
27. XXXXXXXX X
23. XXXXXXXXXX
19. XXXXXXXXXX
15. XXXXXXXXXX
11. XXXXXXXXXX
7. XXXXXXXXXX
3. XXXXXXXXXX
0.

MEAN 1.9 SIGMA 0.7

U/K RATIO

RECORDS 541

56. X
51. X
77. XXX
73. XXX
68. XXX
64. XXX
60. XXXX
55. XXXXX
51. XXXXX
47. XXXXX
43. XXXXX
38. XXXXX
34. XXXXXX
30. XXXXXX
25. XXXXXX
21. XXXXXX
17. XXXXXXXX
12. XXXXXXXX
8. XXXXXXXX
4. XXXXXXXX
0.

MEAN 1.1 SIGMA 0.3

URANIUM PPM

RECORDS 555

106. X
100. XX
95. XX
90. XX
84. XXX
79. XXX
74. XXX
68. XXXX
63. XXXXX
58. XXXXX
53. XXXXX
47. XXXXX
42. XXXXX
37. XXXXX
31. XXXXXXX
26. XXXXXXX
21. XXXXXXX
15. XXXXXXX
10. XXXXXXX
5. XXXXXXXX
0.

MEAN 2.0 SIGMA 0.8

U/T RATIO

RECORDS 541

98. X
94. X
89. XX
84. XXX
79. XXX
74. XXX
69. XXX
64. XXX
59. XXXX
54. XXXX
49. XXXX
44. XXXXX
39. XXXXX
34. XXXXXXX
29. XXXXXXX
24. XXXXXXX
19. XXXXXXXX
14. XXXXXXXX
9. XXXXXXXX X
4. XXXXXXXX
0.

MEAN 0.3 SIGMA 0.1

THORIUM PPM

RECORDS 598

128. X
122. X
116. X
109. XX
103. XX
96. XXX
90. XXX
83. XXX
77. XXX
70. XXX
64. XXXX
58. XXXX
51. XXXX
45. XXXX X
38. XXXX X
32. XXXX X
25. XXXXXXX
19. XXXXXXX XX
12. XXXXXXXX
6. XXXXXXXX
0.

MEAN 3.9 SIGMA 5.0

T/K RATIO

RECORDS 598

102. X
96. XX
91. XX
86. XX
81. XX
76. XXX
71. XXXX
66. XXXX
61. XXXXX
56. XXXXX
51. XXXXX
45. XXXXX
40. XXXXXX
35. XXXXXXX
30. XXXXXXX
25. XXXXXXX
20. XXXXXXX
15. XXXXXXX
10. XXXXXXXX
5. XXXXXXXX X
0.

MEAN 4.6 SIGMA 1.3

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

GEOLOGIC UNIT QTS

POTASSIUM%
RECORDS 1191

238. X
227. XX
215. XX
203. XX
191. XXX
179. XXX
167. XXX
155. XXX
143. XXX
131. XXX
119. XXX
107. XXXXX
95. XXXXX
83. XXXXX
71. XXXXXX
59. XXXXXX
47. XXXXXXXX
35. XXXXXXXX
23. X XXXXXXXX
11. X XXXXXXXXXX
0.....
C 4
MEAN 2.1 SIGMA 0.5
U/K RATIO

RECORDS 1165

343. X
326. X
309. X
292. XX
275. XX
258. XX
240. XX
223. XXX
206. XXX
189. XXX
171. XXX
154. XXX
137. XXX
120. XXXX
103. XXXX
85. XXXX
68. XXXX
51. XXXXX
34. XXXXXX
17. XXXXXX
0.....
C 6
MEAN 1.3 SIGMA 0.5

URANIUM PPM
RECORDS 1174

155. X
175. X
166. X
157. X
148. XX
138. XX
129. XXXX
120. XXXX
111. XXXX
101. XXXXXX
92. XXXXXX
83. XXXXXX
74. XXXXXXXX
64. XXXXXXXX
55. XXXXXXXX
46. XXXXXXXX
37. XXXXXXXX
27. XXXXXXXX
18. XXXXXXXXXX
9. XXXXXXXXXX
0.....
C 5
MEAN 2.6 SIGMA 0.7
U/T RATIO

RECORDS 1165

250. X
237. X
225. XX
212. XX
200. XX
187. XXX
175. XXX
162. XXX
150. XXX
137. XXX
125. XXXX
112. XXXXX
100. XXXXX
87. XXXXX
75. XXXXX
62. XXXXXX
50. XXXXXX
37. XXXXXXXX
25. XXXXXXXX
12. XXXXXXXXXX
0.....
C 1
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 1190

217. X
206. X
195. X
184. X
173. X
162. X
151. XX
141. XX X
130. XXX X
119. XXX XX
108. XXX XX
97. XXXXXXXX
86. XXXXXXXX
75. XXXXXXXX
65. XXXXXXXX
54. XXXXXXXX
43. XXXXXXXX
32. XXXXXXXX
21. XXXXXXXXXX
10. XXXXXXXXXX
0.....
1 27
MEAN 8.3 SIGMA 3.6
T/K RATIO

RECORDS 1181

182. X
172. X
163. X
154. XX
145. XX
136. XX
127. X XXX
118. XXXXXXXX
109. XXXXXXXX
100. XXXXXXXX
91. XXXXXXXX
81. XXXXXXXX
72. XXXXXXXX
63. XXXXXXXX
54. XXXXXXXX
45. XXXXXXXX
36. XXXXXXXXXX
27. XXXXXXXXXX
18. XXXXXXXXXX
9. XXXXXXXXXX
0.....
C 9
MEAN 4.1 SIGMA 1.1

NEW MEXICO-LAS CRUCES NL 13-10 QUADRANGLE
GEOLOGIC UNIT TV

POTASSIUM%
RECORDS 4

URANIUM PPM
RECORDS 4

THORIUM PPM
RECORDS 4

NEW MEXICO-LAS CRUCES NL 13-10 QUADRANGLE
GEOLOGIC UNIT TVU

POTASSIUM%
RECORDS 801

207. X
196. X
186. X
175. XX
165. XX
155. XX
144. XX
134. XX
124. XX
113. XX
103. XXX
93. XXX
82. XXX
72. XXXXX
62. XXXXX
51. XXXXXX
41. XXXXXX
31. XXXXXXX
20. XXXXXXXX
10. XXXXXXXX
0.....

0
MEAN 2.2 SIGMA 0.7

U/K RATIO
RECORDS 782

125. X
118. XX
112. XXX
106. XXXX
100. XXXX
93. XXXX
87. XXXX
81. XXXX
75. XXXX
68. XXXX
62. XXXXX
56. XXXXXX
50. XXXXXX
43. XXXXXXXX
37. XXXXXXXX
31. XXXXXXXX
25. XXXXXXXX
18. XXXXXXXX
12. XXXXXXXX
6. XXXXXXXX
0.....

0
MEAN 1.1 SIGMA 0.3

URANIUM PPM
RECORDS 788

160. X
152. X
144. X
136. XX
128. XX
120. XXX
112. XXXX
104. XXXX
96. XXXX
88. XXXX
80. XXXX
72. XXXXX
64. XXXXX
56. XXXXX
48. XXXXXX
40. XXXXXX
32. XXXXXXX
24. XXXXXXXX
16. XXXXXXXX
8. XXXXXXXX
0.....

0
MEAN 2.4 SIGMA 0.8

U/T RATIO
RECORDS 782

126. X
119. X
113. XX
107. XX
100. XXX
94. XXX
88. XXXX
81. XXXXX
75. XXXXX
69. XXXXXX
63. XXXXXX
56. XXXXXX
50. XXXXXX
44. XXXXXXXX
37. XXXXXXXX
31. XXXXXXXX
25. XXXXXXXX
18. XXXXXXXX
12. XXXXXXXX
6. XXXXXXXX
0.....

0
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 801

163. X
155. X
147. X
139. X
131. XX
123. XXX
114. XXX
106. XXX
98. XXX
90. XXXX
82. XXXX
73. XXXX
65. XXXXX
57. XXXXX
49. XXXXXX
41. XXXXXX
32. XXXXXXXX
24. XXXXXXXX
16. XXXXXXXX
8. XXXXXXXX
0.....

1
MEAN 9.3 SIGMA 4.4

T/K RATIO
RECORDS 800

180. X
171. XX
162. XX
153. XX
144. XX
135. XX
126. XX
117. XX
108. XXX
99. XXXX
90. XXXXX
81. XXXXX
72. XXXXX
63. XXXXX
54. XXXXX
45. XXXXX
36. XXXXXX
27. XXXXXX
18. XXXXXX
9. XXXXXXXX
0.....

0
MEAN 4.1 SIGMA 0.9

NEW MEXICO-LAS CRUCES NO. 13-10 QUADRANGLE

GEOLOGIC UNIT TVL

URANIUM PPM
RECORDS 8

THORIUM PPM
RECORDS 9

POTASSIUM%
RECORDS 9

NEW MEXICO-LAS CRUCES NI. 13-10 QUADRANGLE
GEOLOGIC UNIT TKI

NEW MEXICO-LAS CRUCES NI. 13-10 QUADRANGLE
GEOLOGIC UNIT QTP
URANIUM PPM
RECORDS 71

NEW MEXICO-LAS CRUCES NI. 13-1C QUADRANGLE

GEOLOGIC UNIT TT

URANIUM PPM
RECORDS 44

THORIUM PPM
RECORDS 43

NEW MEXICO-LAS CRUCES NI: 13-1C QUADRANGLE
GEOLOGIC UNIT TFG

POTASSIUM%
RECORDS 49

URANIUM PPM
RECORDS 49

THORIUM PPM
RECORDS 49

NEW MEXICO-LAS CRUCES NI 13-1C QUADRANGLE

GEOLOGIC UNIT TPL

URANIUM PPM
RECORDS 23

THORIUM PPM
RECORDS 24

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

GEOLOGIC UNIT TD

POTASSIUM%
RECORDS 742

92. XXX
83. XXX
83. XXXX
79. XXXX
74. XXXXX
69. XXXXXX
65. XXXXXX
60. XXXXXX
55. XXXXXXX
51. XXXXXXX
46. XXXXXXX
41. XXXXXXX
37. XXXXXXXX
32. XXXXXXXX
27. XXXXXXXX
23. XXXXXXXX
18. XXXXXXXX
13. XXXXXXXX
9. XXXXXXXX
4. XXXXXXXX
0.

MEAN 2.5 SIGMA 0.6

U/K RATIO

RECORDS 727

143. X
136. X
129. X
122. XXX
115. XXX
108. XXX
100. XXX
93. XXX
86. XXXX
79. XXXX
72. XXXXX
64. XXXXX
57. XXXXX
50. XXXXX
43. XXXXX
36. XXXXX
28. XXXXXX
21. XXXXXXXX
14. XXXXXXXX
7. XXXXXXXX X
0.

MEAN 1.2 SIGMA 0.3

URANIUM PPM
RECORDS 730

132. X
126. XX
119. XXX
113. XXX
106. XXX
99. XXX
93. XXX
86. XXXX
79. XXXX
73. XXXX
66. XXXXXX
59. XXXXXX
53. XXXXXX
46. XXXXXX
39. XXXXXX
33. XXXXXX
26. XXXXXX
19. XXXXXX
13. XXXXXX
6. XXXXXX X
0.

MEAN 3.0 SIGMA 1.0

U/T RATIO

RECORDS 727

205. X
194. X
184. X
174. XX
164. XX
153. XX
143. XX
133. XX
123. XX
112. XXX
102. XXXX
92. XXXX
82. XXXX
71. XXXX
61. XXXX
51. XXXXX
41. XXXXX
30. XXXXX
20. XXXXX
10. XXXXXX
0.

MEAN 0.2 SIGMA 0.1

THORIUM PPM
RECORDS 742

102. X
96. X
91. XX
86. XXXX
81. XXXXX
76. XXXXX
71. XXXXX
66. XXXXXX
61. XXXXXXX
56. XXXXXXX
51. XXXXXXX
45. XXXXXXX
40. XXXXXXXX
35. XXXXXXXX
30. XXXXXXXX
25. XXXXXXXX X
20. XXXXXXXX X
15. XXXXXXXX
10. XXXXXXXX
5. XXXXXXXX
0.

MEAN 15.4 SIGMA 5.9

T/K RATIO

RECORDS 739

123. X
117. X
111. XXX
105. XXX
99. XXX
93. XXXX
86. XXXX
80. XXXX
74. XXXX
68. XXXXX
62. XXXXX
55. XXXXX
49. XXXXX
43. XXXXXXX
37. XXXXXXX
31. XXXXXXX
24. XXXXXXXX
18. XXXXXXXX
12. XXXXXXXX
6. XXXXXXXX
0.

MEAN 6.1 SIGMA 1.8

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
GEOLOGIC UNIT TA

NEW MEXICO-LAS CRUCES NH 13-1C QUADRANGLE

GEOLOGIC UNIT K

URANIUM PPM

RECORDS 84

THORIUM PPM

RECORDS 85

POTASSIUM%

RECORDS 85

20.
19.
18.
17. X
16. X
15. X
14. X
13. X
12. X
11. XXX
10. XXX
9. XXX
8. XXX
7. XXX X
6. XXXX X
5. XXXX X X X
4. XXXX X XX XX
3. XXXXXX XX XXX
2. XXXXXX XXXXXX
1. XXXXXXXXXXXXXXXX XXX

0.....3

MEAN 1.0 SIGMA 0.7

U/K RATIO

RECORDS 58

26.
24.
23.
22.
20.
19.
18.
16.
15.
14.
13.
11.
10.
9.
7.
6. XX X
5. XXX X
3. XXXXX X XX
2. XXXXXX XXXXXXXXXXXX
1. XXXXXXXXXXXXXXXXXXXX

0.....4

MEAN 1.8 SIGMA 0.9

20.
19.
18.
17.
16.
15. X
14. X
13. XX
12. XX
11. XX
10. XX
9. XXX
8. XXX X X
7. XXXXXXX
6. XXXXXXXX
5. XXXXXXXX
4. XXXXXXXX
3. XXXXXXXX
2. XXXXXXXX X
1. XXXXXXXX

0.....3

MEAN 1.9 SIGMA 0.4

U/T RATIO

RECORDS 58

26.
24.
23.
22.
20.
19.
18.
16.
15.
14.
13. X
11. XX
10. XXX
9. XXX
7. XXX
6. XXX
5. XXXX
3. XXXXXXX
2. XXXXXXX X X
1. XXXXXXXX XX

0.....1

MEAN 0.3 SIGMA 0.1

20.
19.
18.
17.
16.
15. X
14. X
13. X
12. X
11. X
10. X X
9. XXXX
8. XXXXX
7. XXXXXX
6. XXXXXX
5. XXXXXXXX
4. XXXXXXXX
3. XXXXXXXX
2. XX XXXXXXXXXXXX
1. XXXXXXXXXXXXXXXX

0.....9

MEAN 5.7 SIGMA 1.3

T/K RATIO

RECORDS 58

27.
25.
24.
22.
21.
20.
18.
17.
16.
14.
13.
12.
10. X
9. X
8. X
6. XXX
5. XXX X
4. XXXX XX X
2. XXXX XXXXX XX
1. XXXXXXXXXXXXXXXX X

0.....13

MEAN 5.9 SIGMA 2.7

NEW MEXICO-LAS CRUCES NI. 13-10 QUADRANGLE

GEOLOGIC UNIT PH

POTASSIUM%
RECORDS 35

27. X
26. X
25. X
23. X
22. X
21. X
19. X
18. X
16. XX
15. XX
13. XX
12. XXX
11. XXX
9. XXX
8. XXX
6. XXX X X
5. XXX X X
4. XXX X XX
2. XXX XXXXXX
1. XXXXXXXXXXXXX
0.

MEAN 0.8 SIGMA 0.5
U/K RATIO
RECORDS 65

20.
19.
18.
17.
16.
15.
14.
13.
12.
11.
10.
9. X
8. X
7. X X X X
6. X X X X
5. X X XX X X
4. X XXX XX X X
3. X XXXXXXXX X X
2. XXXXXXXXXXXX X
1. XXXXXXXXXXXXXXXX
0.

MEAN 3.1 SIGMA 1.0

URANIUM PPM
RECORDS 85

25. X
23. X
22. X
21. X
20. X
18. X
17. X
16. X
15. XXX
13. XXX
12. XXX X
11. XXX X
10. XXXXX
8. XXXXX
7. XXXXX
6. XXXXX
5. XXXXX
3. XXXXX X
2. XXXXXXXXX
1. XXXXXXXXX
0.

MEAN 2.6 SIGMA 0.7
U/T RATIO
RECORDS 65

20.
19.
18.
17.
16.
15.
14.
13.
12.
11.
10.
9. X
8. X
7. XX
6. X XXX
5. XXXXX XX X
4. XXXXX XX X
3. XXXXXX XXXXXX
2. XXXXXXXXXXXXX
1. XXXXXXXXXXXXXXXX X
0.

MEAN 0.6 SIGMA 0.2

THORIUM PPM
RECORDS 81

25. X
23. X
22. X
21. X
20. X
18. X
17. X
16. X
15. XX
13. XX
12. XX
11. XXX
10. XXX
8. XXX
7. XXX
6. XXX X X
5. XXX X XX
3. XXXXXXXX
2. XXXXXXXXX
1. XXXXXXXXX
0.

MEAN 4.5 SIGMA 2.6
T/K RATIO
RECORDS 65

20.
19.
18.
17.
16. X
15. X
14. X
13. X
12. X
11. XX
10. XX
9. XXX
8. XXX
7. XXXX
6. XXXX
5. X XXXX
4. XXXXXX X
3. XXXXXXXXX
2. XXXXXXXXX
1. XXXXXXXXX
0.

MEAN 5.2 SIGMA 0.9

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

GEOLOGIC UNIT SOC

URANIUM PPM
RECORDS 70POTASSIUM%
RECORDS 74

20.
19. X
18. X
17. X
16. XX
15. XX
14. XX
13. XX
12. XX
11. XX
10. XX
9. XX
8. XXXX
7. XXXXX
6. XXXXX
5. XXXXX
4. XXXXX
3. XXXXX X X
2. XXXXX XXX X
1. XXXXXXXXXX XX X X
0.....
C 4
MEAN 1.0 SIGMA 0.9
U/K RATIO
RECORDS 44

25.
23.
22.
21.
20.
18.
17.
16.
15.
13.
12.
11.
10.
8.
7.
6. X X
5. X X X
3. XXXXXXXX X
2. XXXXXXXX X X X
1. XXXXXXXX XX X XXXX
0.....
C 4
MEAN 2.1 SIGMA 1.0

20.
19.
18.
17.
16.
15.
14.
13.
12.
11.
10. XX
9. X XX
8. XXXXX
7. XXXXXX
6. XXXXXX
5. XXXXXX
4. XXXXXX
3. XXXXXXXX X
2. XXXXXXXX X X
1. XXXXXXXXXX XXXX
0.....
C 5
MEAN 2.0 SIGMA 0.9
U/T RATIO
RECORDS 42

20.
19.
18.
17.
16.
15.
14.
13.
12.
11.
10.
9.
8.
7.
6.
5. XX X
4. XX XX X
3. XX XX XXX
2. XXXXXXXXXX X
1. XXXXXXXXXX XXXX X
0.....
C 1
MEAN 0.4 SIGMA 0.2

THORIUM PPM
RECORDS 61

26. X
24. X
23. X
22. X
20. X
19. X
18. X
16. X
15. X
14. X
13. X
11. X
10. XX
9. XXX
7. XXX
6. XXX
5. XXX
3. XXXX X
2. XXXX X
1. XXXXXX XX X X X X X
0.....
1 26
MEAN 5.9 SIGMA 5.9
T/K RATIO
RECORDS 42

20.
19.
18.
17.
16.
15.
14.
13.
12.
11.
10.
9.
8.
7. X X
6. XX X
5. XX X
4. X XXX X
3. X XXX X
2. X XXXXX XX XX
1. XXXXXXXXXX
0.....
0 7
MEAN 4.8 SIGMA 1.2

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

GEOLOGIC UNIT PA

POTASSIUM%
RECORDS 76

MEAN 0.7 SIGMA 0.4
U/K RATIO
RECORDS 61

MEAN 2.6 SIGMA 1.1

URANIUM PPM
RECORDS 72

MEAN 2.2 SIGMA 0.6
U/T RATIO
RECORDS 61

MEAN 0.4 SIGMA 0.2

THORIUM PPM
RECORDS 72

MEAN 5.3 SIGMA 1.6
T/K RATIO
RECORDS 62

MEAN 5.9 SIGMA 1.3

NEW MEXICO-LAS CRUCES NI. 13-10 QUADRANGLE
GEOLOGIC UNIT PMD

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
GEOLOGIC UNIT P

POTASSIUM%
RECORDS 70

URANIUM PPM
RECORDS 70

THORIUM PPM
RECORDS 65

NEW MEXICO-LAS CRUCES NI. 13-10 QUADRANGLE
GEOLOGIC UNIT PC

POTASSIUM%
RECORDS 75

20.
19.
18.
17.
16.
15.
14.
13.
12.
11.
10.
9.
8. X X X
7. XX X X X
6. XX X X X
5. XX X X X X
4. XXXX X X X
3. XXXX X X X X
2. XXXXXXXX XXXXXXXX
1. XXXXXXXX XXXXXXXX

0.....5
C
MEAN 2.9 SIGMA 1.2
U/K RATIO
RECORDS 74

20.
19.
18.
17.
16.
15.
14.
13.
12.
11. X
10. X X
9. XX XX
8. XXX XX
7. XXX XX
6. XXX XX
5. XXXXXXX
4. XXXXXXXX
3. XXXXXXXX X
2. XXXXXXXX X X
1. XXXXXXXX XXX X

0.....3
C
MEAN 1.0 SIGMA 0.5

URANIUM PPM
RECORDS 74

20.
19. X
18. X
17. X
16. X
15. X
14. X
13. XX
12. XX
11. XXX
10. XXX
9. XXX
8. XXX
7. XXX
6. XXX X
5. XXXXX X
4. XXXXX X
3. XXXXXX X
2. XXXXXXXX XXX
1. XXXXXXXX XXX X X

0.....5
C
MEAN 2.4 SIGMA 0.8
U/T RATIO
RECORDS 74

20.
19.
18.
17.
16.
15.
14.
13. X
12. X
11. X
10. X X
9. X X
8. XX X X
7. XX X X
6. XX X X
5. X XX XX XX
4. XX XXXX XX
3. XXXXXXXX XX
2. XXXXXXXX XXX
1. XXXXXXXX XXXX X

0.....0
C
MEAN 0.3 SIGMA 0.1

THORIUM PPM
RECORDS 75

20.
19.
18. X
17. X
16. X
15. X
14. X
13. X X
12. X X
11. X X
10. X X
9. X XX
8. XXXX
7. XXXX
6. XXXX X
5. XXXXXX
4. XXXXXXXX
3. XXXXXXXX
2. XXXXXXXX
1. XXXXXXXX XX

0.....33
1
MEAN 10.6 SIGMA 5.7
T/K RATIO
RECORDS 75

20.
19.
18.
17.
16.
15. X
14. X
13. X
12. X
11. X
10. X
9. X
8. X
7. X X X
6. X X X XX
5. X XX XXXX
4. XXXXXXXX
3. XXXXXXXX
2. XXXXXXXX X
1. XXXXXXXX XX X X

0.....10
C
MEAN 4.1 SIGMA 2.0

NEW MEXICO-LAS CRUCES NI 13-10 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.
103.	QAL	977.0	2.0 0.4	2.6 0.8	8.7 2.9	1.3 0.4	0.3 0.1	4.2 0.9
104.	QAB	3499.0	2.3 0.6	2.3 0.7	8.3 3.5	1.0 0.4	0.3 0.1	3.6 1.1
108.	QB	535.0	2.0 0.4	1.7 0.5	6.3 1.5	0.9 0.3	0.3 0.1	3.3 0.8
109.	QTG	446.0	2.4 0.6	2.7 1.0	14.0 6.7	1.1 0.3	0.2 0.1	5.7 1.8
111.	QTB	555.0	1.9 0.7	2.0 0.8	8.9 5.0	1.1 0.3	0.3 0.1	4.6 1.3
112.	QTS	1174.0	2.1 0.5	2.6 0.7	8.8 3.6	1.3 0.5	0.3 0.1	4.1 1.1
114.	TV	4.0	3.0 0.0	1.8 0.4	10.0 1.9	0.6 0.1	0.2 0.0	3.4 0.7
115.	TVU	788.0	2.2 0.7	2.4 0.8	9.3 4.4	1.1 0.3	0.3 0.1	4.1 0.9
116.	TVL	8.0	1.9 0.1	1.5 0.2	3.6 0.4	0.8 0.1	0.4 0.1	1.9 0.3
117.	TKI	98.0	2.0 1.0	2.2 1.0	8.5 5.1	1.3 0.7	0.3 0.1	4.3 1.3
120.	QTP	71.0	1.7 0.5	2.1 0.4	6.7 2.0	1.3 0.5	0.3 0.1	4.0 0.7
121.	TT	44.0	1.7 0.6	2.1 0.5	6.3 2.6	1.3 0.6	0.4 0.1	3.7 0.9
122.	TFG	49.0	3.2 1.2	2.9 1.0	12.0 6.8	1.0 0.3	0.3 0.1	3.6 1.2
123.	TPL	23.0	1.3 0.9	2.5 0.6	6.3 4.8	2.0 1.2	0.5 0.2	4.4 0.9
125.	TD	730.0	2.5 0.6	3.0 1.0	15.4 5.9	1.2 0.3	0.2 0.1	6.1 1.8
126.	TA	617.0	2.0 0.6	2.1 0.7	8.0 4.2	1.1 0.7	0.3 0.1	4.0 1.5
201.	K	34.0	1.0 0.7	1.9 0.4	5.7 1.3	1.8 0.9	0.3 0.1	5.9 2.7
302.	PH	85.0	0.8 0.5	2.6 0.7	4.5 2.6	3.1 1.0	0.6 0.2	5.2 0.9
305.	SOC	70.0	1.0 0.9	2.0 0.9	5.9 5.9	2.1 1.0	0.4 0.2	4.8 1.2
312.	PA	72.0	0.9 0.4	2.2 0.6	5.3 1.6	2.6 1.1	0.4 0.2	5.9 1.3
314.	PMD	282.0	1.1 0.7	2.1 0.7	5.7 3.3	2.0 1.0	0.4 0.2	5.1 1.7
316.	P	70.0	0.5 0.2	2.5 0.5	3.3 1.4	3.7 1.1	0.7 0.3	5.7 2.1
405.	PC	74.0	2.9 1.2	2.4 0.8	10.6 5.7	1.0 0.5	0.3 0.1	4.1 2.0

NEW MEXICO-LAS CRUCES N1 13-10 QUADRANGLE
STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 36

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.
104.	GAB	38.0	2.4 0.3	3.0 0.5	11.6 2.2	1.3 0.2	0.3 0.1	4.9 0.7
108.	GB	44.0	2.0 0.8	2.4 0.5	7.3 2.8	1.3 0.6	0.4 0.1	3.7 0.8
109.	GTG	34.0	1.9 0.2	2.0 0.4	8.9 1.6	1.1 0.2	0.2 0.1	4.7 0.7
111.	GTB	29.0	2.0 0.5	2.0 0.4	9.6 3.4	1.0 0.2	0.2 0.1	4.8 0.8
112.	GTS	59.0	2.3 0.6	2.9 0.9	11.7 3.2	1.3 0.2	0.3 0.1	5.0 0.7
125.	TD	83.0	1.8 0.5	2.4 0.8	11.2 3.8	1.3 0.4	0.2 0.0	6.0 1.1
314.	PMD	21.0	0.5 0.3	1.9 0.4	3.9 1.2	2.8 0.9	0.5 0.1	6.0 2.0
405.	PC	15.0	2.7 0.7	3.4 1.1	18.0 7.8	1.3 0.3	0.2 0.1	6.7 1.8

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 37

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.
104.	GAB	71.0	2.5 0.4	3.1 0.6	11.9 1.2	1.2 0.3	0.3 0.1	4.8 0.7
108.	GB	13.0	1.9 0.4	2.0 0.4	9.4 2.5	1.1 0.2	0.2 0.1	4.9 0.6
109.	GTG	19.0	2.0 0.2	2.1 0.3	10.2 1.5	1.1 0.2	0.2 0.0	5.1 0.5
111.	GTB	19.0	1.7 0.3	1.8 0.5	8.0 1.7	1.0 0.2	0.2 0.0	4.8 0.7
112.	GTS	60.0	2.2 0.4	2.7 0.5	11.6 3.1	1.2 0.2	0.2 0.1	5.2 1.0
117.	TKI	6.0	1.7 0.7	1.9 0.7	6.8 3.1	1.2 0.2	0.3 0.1	4.0 0.3
125.	TD	72.0	2.2 0.5	2.8 0.6	14.0 3.8	1.3 0.4	0.2 0.1	6.2 1.0
126.	TA	23.0	2.3 0.7	2.9 0.9	10.0 2.8	1.3 0.3	0.3 0.1	4.4 1.1
305.	SCC	6.0	0.5 0.2	1.8 0.1	2.9 0.7	2.7 0.0	0.6 0.0	4.9 0.0
312.	PA	4.0	1.6 0.6	2.2 0.4	8.7 2.7	1.7 0.9	0.3 0.1	5.8 1.0
314.	PMD	14.0	1.7 0.6	2.3 0.6	8.7 3.1	1.5 0.5	0.3 0.1	5.2 1.3

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 38

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.
103.	GAL	23.0	1.6 0.5	2.1 0.9	7.1 2.3	1.4 0.3	0.3 0.1	4.6 0.5
104.	GAB	50.0	2.4 0.2	2.9 0.5	13.0 1.6	1.2 0.2	0.2 0.0	5.3 0.4
109.	GTG	6.0	1.6 0.1	1.9 0.2	9.6 0.9	1.2 0.1	0.2 0.0	6.0 0.3
111.	GTB	45.0	1.6 0.5	1.6 0.5	7.6 2.5	1.1 0.3	0.2 0.1	4.9 1.0
112.	GTS	68.0	2.4 0.3	3.1 0.5	12.1 1.9	1.3 0.2	0.3 0.1	5.1 0.6
117.	TKI	7.0	1.2 0.7	1.8 0.4	5.1 2.5	1.9 0.8	0.4 0.2	4.4 1.0
125.	TD	63.0	2.1 0.5	2.5 0.8	14.3 4.1	1.2 0.3	0.2 0.0	6.9 1.6
126.	TA	30.0	1.4 0.7	1.9 0.5	6.7 3.1	1.7 0.8	0.3 0.1	5.4 1.9
305.	SCC	7.0	2.5 1.8	3.0 1.8	14.9 11.6	1.2 0.2	0.2 0.1	5.8 1.2
314.	PMD	38.0	1.1 0.6	1.8 0.5	4.9 3.1	1.8 0.9	0.4 0.2	4.7 1.3
405.	PC	5.0	1.6 0.5	1.9 0.4	6.2 2.0	1.2 0.3	0.3 0.1	3.9 0.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 39

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.
103.	GAL	36.0	2.0 0.4	2.1 0.4	10.0 3.1	1.1 0.2	0.2 0.1	4.8 0.9
104.	GAB	66.0	2.5 0.2	2.6 0.4	13.5 2.1	1.0 0.2	0.2 0.0	5.3 0.6
109.	GTG	27.0	1.8 1.0	2.2 0.8	10.3 5.7	1.4 0.6	0.2 0.1	5.8 1.0
111.	GTB	17.0	2.6 0.5	2.5 0.4	14.6 5.3	1.0 0.1	0.2 0.1	5.5 1.4
112.	GTS	67.0	2.1 0.5	2.3 0.5	11.0 3.8	1.1 0.3	0.2 0.1	5.2 0.7
125.	TD	76.0	2.8 0.5	3.0 0.7	17.9 3.9	1.1 0.2	0.2 0.0	6.4 1.2
126.	TA	51.0	2.1 0.8	2.4 1.0	12.7 6.5	1.2 0.3	0.2 0.1	5.6 1.5
305.	SCC	11.0	1.1 0.7	2.3 0.9	7.1 4.9	2.1 0.8	0.4 0.1	5.9 1.3
314.	PMD	31.0	1.1 0.8	2.3 0.6	6.7 4.5	2.1 1.0	0.4 0.2	5.7 1.6

NEW MEXICO-LAS CRUCES N1. 13-10 QUADRANGLE
STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 40

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.
103.	GAL	35.0	2.0 0.6	2.4 0.5	10.7 4.4	1.2 0.3	0.2 0.1	5.2 0.9
104.	GAB	69.0	2.2 0.6	2.9 0.5	11.6 3.6	1.5 0.6	0.3 0.1	5.3 0.7
109.	GTG	19.0	2.7 0.2	3.3 0.9	19.5 5.3	1.2 0.3	0.2 0.0	7.0 1.5
111.	GTB	30.0	2.5 0.5	3.3 1.4	16.9 8.1	1.3 0.4	0.2 0.1	6.5 2.0
112.	GTS	54.0	1.6 0.9	2.7 0.8	8.8 4.7	1.3 0.8	0.3 0.2	5.2 0.5
117.	TKI	7.0	0.5 0.2	1.4 0.2	2.7 1.0	2.4 0.5	0.5 0.1	5.2 1.0
123.	TPL	10.0	0.6 0.3	2.3 0.4	2.9 0.5	3.0 1.3	0.7 0.1	4.0 1.2
125.	TD	71.0	2.2 0.4	3.6 0.9	21.1 5.6	1.3 0.3	0.2 0.0	7.5 1.6
126.	TA	22.0	2.4 0.7	3.0 1.0	15.6 9.0	1.3 0.5	0.2 0.1	6.0 2.3
305.	SCC	14.0	0.8 0.5	1.9 0.6	3.6 2.6	2.6 1.3	0.6 0.3	4.4 1.1
312.	PA	10.0	0.7 0.3	2.6 0.5	5.2 1.2	3.3 1.2	0.5 0.1	7.3 1.9
314.	FMD	39.0	0.9 0.7	2.3 0.8	5.7 4.0	2.3 1.0	0.4 0.1	6.1 1.2
316.	P	36.0	0.4 0.2	2.6 0.5	3.1 1.4	3.7 0.9	0.7 0.3	6.0 1.8

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 41

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.
103.	GAL	26.0	2.1 0.4	2.5 0.4	9.7 2.6	1.2 0.3	0.3 0.1	4.5 0.6
104.	GAB	101.0	1.7 0.5	2.2 0.5	7.4 3.1	1.4 0.6	0.3 0.1	4.4 1.0
109.	GTG	28.0	2.9 0.3	4.1 1.0	22.9 7.3	1.4 0.3	0.2 0.0	7.9 2.3
111.	GTB	20.0	2.3 0.6	2.3 0.7	10.0 4.7	1.0 0.2	0.3 0.1	4.1 1.5
112.	GTS	31.0	2.1 0.6	2.5 0.5	9.8 4.0	1.3 0.5	0.3 0.1	4.6 0.8
120.	GTP	17.0	1.4 0.3	1.9 0.3	5.6 1.1	1.5 0.6	0.4 0.1	4.0 0.5
121.	TT	5.0	0.8 0.3	1.9 0.3	3.7 0.8	2.4 0.7	0.5 0.1	4.4 0.5
125.	TD	30.0	2.9 0.6	3.9 1.4	20.7 7.9	1.4 0.5	0.2 0.0	7.1 2.6
126.	TA	59.0	1.4 0.7	2.1 0.6	6.1 2.9	1.9 1.3	0.4 0.2	4.9 2.4
312.	PA	6.0	0.3 0.1	1.4 0.2	1.9 0.2	0.0 0.0	0.0 0.0	0.0 0.0
314.	FMD	8.0	1.6 0.8	2.8 0.6	7.9 3.6	2.2 1.0	0.4 0.1	5.4 1.4

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 42

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.
103.	GAL	21.0	1.9 0.5	2.7 0.4	8.7 3.6	1.6 0.6	0.4 0.1	4.5 0.8
104.	GAB	160.0	1.7 0.3	2.0 0.4	6.1 2.9	1.2 0.3	0.4 0.1	3.5 1.0
109.	GTG	49.0	2.7 0.5	3.2 0.9	19.6 7.5	1.2 0.2	0.2 0.0	7.0 1.7
111.	GTB	28.0	2.0 0.8	1.9 0.8	9.2 4.5	1.0 0.2	0.2 0.1	4.5 0.9
112.	GTS	137.0	2.0 0.5	2.5 0.4	8.8 3.8	1.4 0.5	0.3 0.1	4.4 0.9
120.	GTP	6.0	1.1 0.3	2.4 0.3	5.1 0.7	2.3 0.6	0.5 0.1	4.6 0.6
121.	TT	26.0	1.6 0.4	2.0 0.5	6.3 3.0	1.3 0.5	0.4 0.2	3.9 0.9
123.	TPL	4.0	2.1 0.7	2.4 0.5	10.3 6.1	1.1 0.2	0.2 0.1	4.7 1.3
125.	TD	40.0	2.8 0.5	2.4 0.5	13.5 2.3	0.9 0.2	0.2 0.0	4.8 0.5
126.	TA	39.0	2.0 0.4	1.7 0.5	7.0 3.0	0.8 0.2	0.3 0.1	3.4 0.8

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 43

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.
103.	GAL	55.0	2.0 0.4	2.6 0.6	8.2 3.3	1.4 0.4	0.3 0.1	4.1 1.0
104.	GAB	206.0	1.9 0.4	2.4 0.6	7.1 3.6	1.3 0.3	0.4 0.2	3.5 1.2
109.	GTG	70.0	2.5 0.4	3.0 0.9	16.1 4.9	1.2 0.3	0.2 0.0	6.3 1.3
111.	GTB	49.0	2.0 0.7	1.8 0.6	8.2 4.2	0.9 0.2	0.2 0.1	4.0 0.9
112.	GTS	62.0	2.0 0.3	2.6 0.6	6.6 1.6	1.3 0.3	0.4 0.1	3.2 0.6
115.	TVU	10.0	1.9 0.2	2.8 0.4	8.3 0.6	1.5 0.2	0.3 0.0	4.5 0.5
120.	GTP	5.0	1.7 0.3	1.7 0.5	6.5 1.6	1.1 0.2	0.3 0.1	3.7 0.5
121.	TT	6.0	2.7 0.3	2.5 0.4	6.5 1.0	0.9 0.1	0.4 0.1	2.4 0.3
125.	TD	22.0	2.8 0.2	2.7 0.7	14.0 3.6	1.0 0.2	0.2 0.1	5.0 1.2
126.	TA	83.0	2.1 0.2	1.7 0.4	6.9 1.8	0.8 0.2	0.2 0.1	3.3 0.7

NEW MEXICO-LAS CRUCES N1. 13-1C QUADRANGLE
STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 44

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.
103.	GAL	37.0	1.9 0.2	2.8 0.6	7.2 1.7	1.5 0.4	0.4 0.1	3.9 0.8
104.	GAB	258.0	1.9 0.3	2.6 0.6	7.1 2.9	1.4 0.3	0.4 0.2	3.7 1.0
109.	GTG	43.0	2.3 0.5	2.9 0.9	12.8 6.4	1.2 0.3	0.3 0.1	5.2 1.8
112.	GTS	22.0	1.9 0.3	2.9 0.4	5.8 1.0	1.5 0.4	0.5 0.1	3.2 0.8
115.	TVU	56.0	1.8 0.5	2.3 0.7	7.9 3.3	1.6 0.3	0.4 0.1	4.3 0.8
120.	GTP	24.0	1.6 0.4	2.1 0.4	6.3 1.8	1.4 0.3	0.4 0.1	4.0 0.8
125.	TD	11.0	2.7 0.6	2.6 0.5	11.0 2.5	1.0 0.1	0.2 0.0	4.1 0.4
126.	TA	53.0	2.2 0.4	2.4 0.6	8.2 2.9	1.1 0.2	0.3 0.1	3.7 0.9

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 45

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.
103.	GAL	31.0	2.4 0.4	3.0 0.7	8.3 2.7	1.3 0.3	0.4 0.1	3.5 0.9
104.	GAB	296.0	2.0 0.5	2.8 0.7	7.7 3.5	1.5 0.5	0.4 0.2	3.8 1.1
109.	GTG	53.0	2.1 0.4	2.0 0.6	8.6 2.4	1.0 0.2	0.2 0.1	4.1 0.9
111.	GTB	28.0	1.5 0.2	2.1 0.4	5.2 1.0	1.4 0.3	0.4 0.1	3.5 0.6
112.	GTS	24.0	1.9 0.3	3.4 1.0	6.5 1.8	1.8 0.5	0.5 0.2	3.6 1.1
115.	TVU	55.0	1.8 0.3	2.3 0.4	6.9 1.2	1.3 0.3	0.3 0.1	3.9 0.7
125.	TD	30.0	3.0 0.3	2.9 0.6	13.5 2.6	1.0 0.2	0.2 0.1	4.5 0.8
126.	TA	38.0	2.2 0.4	2.4 0.5	8.5 1.7	1.1 0.2	0.3 0.1	3.8 0.5
405.	PC	7.0	1.3 0.5	2.2 0.1	5.9 0.9	1.9 0.6	0.4 0.0	4.9 1.2

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 46

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.
103.	GAL	9.0	2.1 0.5	2.2 0.5	8.5 3.0	1.0 0.2	0.3 0.1	3.9 0.7
104.	GAB	326.0	2.2 0.4	2.2 0.5	8.5 3.1	1.0 0.2	0.3 0.1	3.8 0.9
111.	GTR	25.0	1.4 0.3	1.8 0.5	5.7 1.5	1.3 0.4	0.3 0.1	4.0 0.6
112.	GTS	37.0	2.3 0.4	2.1 0.5	8.3 2.7	0.9 0.2	0.3 0.1	3.6 0.7
115.	TVU	76.0	1.8 0.4	1.9 0.5	6.8 2.1	1.1 0.2	0.3 0.1	3.8 0.7
117.	TKI	5.0	2.3 0.9	1.9 0.5	7.8 2.7	0.9 0.3	0.2 0.1	3.8 1.6
120.	GTP	11.0	2.6 0.1	2.4 0.3	9.1 1.8	0.9 0.1	0.3 0.1	3.5 0.6
125.	TD	7.0	2.3 0.2	2.3 0.6	9.0 2.3	1.0 0.2	0.3 0.1	3.9 0.8
126.	TA	28.0	2.4 0.5	2.0 0.6	8.8 2.8	0.8 0.2	0.2 0.0	3.6 0.9
201.	K	10.0	1.6 0.9	1.5 0.3	6.2 0.7	1.0 0.5	0.2 0.1	4.3 2.8
314.	FMD	15.0	1.0 0.5	1.6 0.4	5.3 1.9	1.8 0.7	0.3 0.1	5.8 1.8

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 47

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.
103.	GAL	31.0	2.2 0.3	2.2 0.4	8.5 2.2	1.0 0.2	0.3 0.1	3.9 0.8
104.	GAB	267.0	2.3 0.4	2.3 0.5	10.2 2.7	1.0 0.2	0.2 0.1	4.3 0.8
111.	GTB	44.0	1.3 0.3	1.6 0.4	5.6 1.8	1.2 0.2	0.3 0.1	4.1 0.7
112.	GTS	25.0	2.4 0.4	2.1 0.4	8.3 2.5	0.9 0.1	0.3 0.1	3.4 0.6
115.	TVU	75.0	2.4 0.7	2.4 0.7	11.9 4.6	1.1 0.3	0.2 0.1	4.8 0.8
117.	TKI	13.0	1.9 0.3	2.0 0.5	7.7 0.9	1.1 0.3	0.3 0.1	4.1 0.8
126.	TA	27.0	2.0 0.5	1.9 0.6	6.8 3.1	1.0 0.4	0.3 0.1	3.4 0.9
201.	K	8.0	0.5 0.2	1.9 0.4	4.0 1.2	2.2 0.4	0.4 0.2	7.5 2.7
302.	PH	21.0	1.4 0.2	3.0 0.5	7.2 1.4	2.1 0.5	0.4 0.1	5.1 0.5
312.	PA	15.0	1.0 0.4	2.4 0.5	5.7 0.9	2.0 0.4	0.4 0.1	4.7 0.9
314.	FMD	15.0	1.8 0.6	1.8 0.6	6.3 1.4	0.9 0.3	0.3 0.1	4.0 1.8

NEW MEXICO-LAS CRUCES N. 13-10 QUADRANGLE
STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 48

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.
103.	GAL	32.0	2.4 0.4	2.6 0.6	9.4 2.7	1.1 0.2	0.3 0.1	3.9 0.8
104.	GAB	316.0	2.4 0.5	2.3 0.6	9.6 2.7	1.0 0.3	0.2 0.1	4.1 0.8
111.	GTB	26.0	1.5 0.3	1.6 0.6	5.5 3.1	1.2 0.5	0.3 0.1	4.1 1.3
112.	GTS	25.0	2.8 0.8	2.3 0.7	11.5 4.3	1.0 0.2	0.2 0.1	4.1 0.7
115.	TVU	103.0	2.7 0.7	2.9 0.9	12.9 4.4	1.1 0.2	0.2 0.1	4.7 0.9
117.	TKI	18.0	3.7 0.5	3.9 0.6	17.3 3.0	1.1 0.2	0.2 0.0	4.8 1.0
125.	TD	16.0	2.2 0.4	2.5 0.7	8.6 2.8	1.1 0.3	0.3 0.1	3.9 0.8
126.	TA	5.0	1.8 0.1	2.1 0.4	7.4 0.4	1.1 0.3	0.3 0.1	4.0 0.2
201.	K	8.0	0.5 0.1	1.9 0.4	5.4 0.8	3.1 0.5	0.4 0.1	9.1 2.3
305.	SOC	4.0	2.4 0.9	2.5 0.9	10.0 4.8	1.1 0.3	0.3 0.1	4.0 0.6

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 49

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.
103.	GAL	31.0	2.0 0.7	2.6 0.4	8.6 4.0	1.5 0.7	0.4 0.2	4.2 0.7
104.	GAB	309.0	2.3 0.5	2.2 0.5	9.1 2.7	1.0 0.5	0.3 0.1	4.0 0.7
111.	GTB	6.0	1.9 0.2	1.8 0.2	6.7 1.2	1.0 0.1	0.3 0.1	3.5 0.5
112.	GTS	34.0	2.2 0.6	2.9 0.6	9.0 3.3	1.5 1.0	0.4 0.2	4.0 0.8
115.	TVU	91.0	2.4 0.5	2.4 0.7	10.3 3.3	1.0 0.2	0.2 0.1	4.2 0.8
117.	TKI	9.0	2.3 0.2	1.9 0.3	6.8 0.7	0.8 0.1	0.3 0.1	3.0 0.3
122.	TFG	7.0	2.1 0.3	2.1 0.3	7.0 1.5	1.0 0.2	0.3 0.1	3.3 0.5
125.	TD	11.0	2.1 0.1	2.1 0.5	7.4 0.7	1.0 0.3	0.3 0.1	3.5 0.3
126.	TA	8.0	2.1 0.1	1.9 0.3	7.0 1.3	0.9 0.1	0.3 0.0	3.3 0.5
302.	PH	19.0	0.6 0.1	2.3 0.3	2.8 0.5	4.0 0.7	0.8 0.1	5.1 0.7

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 50

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.
103.	GAL	54.0	2.0 0.5	2.1 0.4	8.5 3.1	1.1 0.5	0.3 0.1	4.2 0.7
104.	GAB	444.0	2.3 0.5	1.9 0.4	8.7 2.2	0.9 0.3	0.2 0.1	3.9 0.7
112.	GTS	27.0	2.2 0.1	1.7 0.4	6.0 1.2	0.8 0.2	0.3 0.1	2.7 0.5
115.	TVU	69.0	2.0 0.4	1.9 0.5	7.9 2.8	0.9 0.2	0.2 0.1	3.8 0.7
122.	TFG	9.0	3.9 1.0	1.9 0.4	6.9 1.2	0.5 0.1	0.3 0.1	1.8 0.4
302.	PH	19.0	0.7 0.2	2.3 0.3	4.0 1.2	3.2 0.7	0.6 0.2	5.8 0.9
312.	PA	22.0	0.8 0.1	2.3 0.3	4.7 0.8	3.0 0.9	0.5 0.2	5.9 0.8

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 51

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.
103.	GAL	41.0	2.1 0.3	2.0 0.4	8.8 2.3	1.0 0.2	0.2 0.0	4.2 0.8
104.	GAB	338.0	2.3 0.3	1.9 0.5	8.8 2.7	0.8 0.2	0.2 0.1	3.7 0.8
112.	GTS	27.0	2.1 0.2	1.6 0.3	6.4 1.5	0.8 0.1	0.3 0.1	2.9 0.5
114.	TV	4.0	3.0 0.0	1.8 0.4	10.0 1.9	0.6 0.1	0.2 0.0	3.4 0.7
115.	TVU	69.0	2.1 0.3	2.0 0.8	8.6 4.2	0.9 0.3	0.2 0.1	4.0 1.3
126.	TA	7.0	2.4 0.3	1.9 0.3	8.0 0.6	0.8 0.1	0.2 0.0	3.4 0.5

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 52

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.
103.	GAL	79.0	2.5 0.5	3.7 0.7	11.0 2.4	1.6 0.5	0.4 0.1	4.4 0.5
104.	GAB	507.0	2.5 0.5	2.5 1.0	9.6 5.0	1.0 0.3	0.3 0.1	3.7 1.1
112.	GTS	17.0	2.0 0.2	3.1 0.3	6.4 0.9	1.6 0.3	0.5 0.1	3.2 0.5
115.	TVU	9.0	2.7 1.0	2.4 1.4	10.8 10.3	0.9 0.2	0.3 0.1	3.5 1.7

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 53

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.
103.	GAL	46.0	1.9 0.2	3.1 0.6	7.5 1.7	1.7 0.4	0.4 0.1	3.9 0.8
104.	GAB	592.0	2.5 0.7	2.9 0.9	9.3 4.6	1.2 0.3	0.3 0.1	3.7 1.1
108.	GB	13.0	2.3 0.1	2.8 0.4	6.6 0.8	1.2 0.2	0.4 0.1	2.8 0.3
112.	GTS	15.0	2.1 0.2	2.6 0.4	6.5 1.2	1.3 0.3	0.4 0.1	3.1 0.4
115.	TVU	7.0	5.8 0.6	5.9 0.8	26.8 3.0	1.0 0.1	0.2 0.0	4.6 0.1
122.	TFG	4.0	3.0 0.3	4.2 0.4	12.2 4.4	1.4 0.1	0.4 0.1	4.0 1.0

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 54

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.
103.	GAL	42.0	2.0 0.4	2.8 0.4	8.7 2.2	1.5 0.4	0.3 0.1	4.4 0.6
104.	GAB	504.0	2.4 0.6	2.4 0.7	8.3 3.7	1.0 0.3	0.3 0.1	3.3 0.9
112.	GTS	25.0	2.3 0.5	2.8 0.6	8.9 3.8	1.2 0.3	0.4 0.2	3.7 0.9
115.	TVU	8.0	4.0 0.7	4.2 0.6	17.1 3.5	1.1 0.2	0.3 0.1	4.2 0.3
122.	TFG	16.0	4.4 0.2	4.0 0.4	21.1 1.7	0.9 0.1	0.2 0.0	4.8 0.5
126.	TA	12.0	1.8 0.2	1.6 0.2	5.0 0.8	0.9 0.1	0.3 0.0	2.8 0.4
305.	SOC	7.0	0.3 0.2	1.5 0.5	2.1 0.6	3.2 0.9	0.5 0.0	5.0 0.0
314.	FMD	13.0	0.4 0.1	2.3 0.3	2.3 0.3	4.1 0.6	1.1 0.2	3.9 0.8

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 55

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.
103.	GAL	41.0	1.9 0.2	2.9 0.4	7.3 1.2	1.5 0.3	0.4 0.1	3.8 0.8
104.	GAB	453.0	2.3 0.4	2.3 0.6	7.1 3.0	1.0 0.3	0.3 0.1	3.0 0.9
108.	GB	47.0	2.1 0.2	1.9 0.3	5.1 0.8	0.9 0.2	0.4 0.1	2.5 0.6
112.	GTS	19.0	2.0 0.1	2.4 0.5	6.0 0.9	1.2 0.3	0.4 0.1	3.0 0.5
116.	TVL	8.0	1.9 0.1	1.5 0.2	3.6 0.4	0.8 0.1	0.4 0.1	1.9 0.3

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 56

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.
103.	GAL	47.0	1.9 0.1	2.0 0.4	7.5 1.6	1.1 0.2	0.3 0.1	4.0 0.9
104.	GAB	466.0	2.5 0.8	1.9 0.7	7.1 2.7	0.8 0.3	0.3 0.1	2.9 1.0
108.	GB	67.0	2.2 0.3	1.6 0.3	6.3 0.9	0.7 0.2	0.3 0.1	2.9 0.5
112.	GTS	21.0	1.9 0.1	1.6 0.3	5.6 0.9	0.8 0.2	0.3 0.1	2.9 0.4
405.	PC	28.0	4.2 0.4	2.2 0.5	8.8 2.4	0.5 0.1	0.3 0.1	2.1 0.5

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 57

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.
103.	GAL	43.0	1.9 0.1	1.8 0.4	7.0 1.5	1.0 0.2	0.3 0.1	3.8 0.8
104.	GAB	528.0	2.2 0.6	1.7 0.6	6.8 2.8	0.8 0.3	0.3 0.1	3.1 0.9
108.	GB	146.0	1.8 0.3	1.5 0.3	6.1 1.1	0.9 0.2	0.3 0.1	3.4 0.8
109.	GTG	10.0	2.6 0.2	2.1 0.4	11.5 0.9	0.8 0.1	0.2 0.0	4.4 0.5
112.	GTS	25.0	1.9 0.2	1.6 0.4	5.2 1.2	0.8 0.2	0.3 0.1	2.7 0.6
305.	SOC	9.0	0.5 0.4	1.3 0.4	4.0 2.1	1.8 0.7	0.4 0.1	4.8 0.7
405.	PC	8.0	2.3 0.2	2.2 0.5	11.2 2.9	1.0 0.2	0.2 0.0	4.9 1.0

STATISTICAL SUMMARY OF GEOLOGIC UNITS BY LINE 58

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.
103.	GAL	36.0	1.9 0.1	1.8 0.4	6.7 1.7	1.0 0.2	0.3 0.1	3.6 0.9
104.	GAB	435.0	2.3 0.6	1.8 0.6	8.1 3.9	0.8 0.3	0.2 0.1	3.3 1.0
108.	GB	126.0	2.0 0.4	1.5 0.3	6.0 0.9	0.8 0.2	0.3 0.1	3.1 0.7
109.	GTG	10.0	3.2 0.2	2.2 0.2	11.9 1.5	0.7 0.1	0.2 0.0	3.7 0.5
112.	GTS	12.0	1.9 0.1	1.6 0.3	5.4 0.8	0.8 0.2	0.3 0.0	2.8 0.5
314.	FMD	5.0	0.6 0.1	1.9 0.5	2.6 0.7	3.2 1.3	0.8 0.4	4.0 0.5

NEW MEXICO-LAS CRUCES N. 13-10 QUADRANGLE
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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
103.	GAL	48.0	2.5 0.4	2.7 0.5	12.7 2.5	1.1 0.2	0.2 0.1	5.1 0.6
104.	GAB	234.0	2.7 0.4	2.3 0.7	9.9 2.6	1.0 0.3	0.3 0.1	3.7 1.0
109.	GTG	39.0	2.4 0.6	2.5 0.7	12.4 4.6	1.0 0.2	0.2 0.1	5.1 1.0
111.	GTB	72.0	2.0 0.7	2.1 0.9	9.3 4.7	1.0 0.2	0.2 0.1	4.5 0.9
115.	TVU	8.0	2.7 0.2	2.8 0.9	12.2 3.0	1.0 0.4	0.2 0.0	4.5 1.2
120.	GTP	8.0	2.0 0.1	1.7 0.3	8.2 1.0	0.9 0.2	0.2 0.1	4.0 0.4
125.	TD	55.0	2.6 0.5	2.9 0.8	13.0 5.4	1.1 0.2	0.2 0.1	4.8 1.3
126.	TA	44.0	2.2 0.5	2.1 0.5	7.8 3.2	1.0 0.2	0.3 0.1	3.5 0.8

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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
103.	GAL	5.0	2.8 0.2	3.0 0.4	11.8 1.6	1.1 0.2	0.3 0.0	4.3 0.5
104.	GAB	204.0	2.9 0.7	2.6 0.5	9.9 2.1	0.9 0.3	0.3 0.1	3.6 0.9
109.	GTG	39.0	2.6 0.3	3.1 1.0	15.4 6.6	1.2 0.3	0.2 0.1	5.9 2.2
111.	GTB	35.0	2.7 0.6	2.9 0.7	14.1 4.5	1.1 0.2	0.2 0.1	5.2 1.1
117.	TKI	7.0	1.2 0.6	2.2 0.3	4.8 1.3	2.3 1.3	0.5 0.1	4.6 2.1
122.	TFG	10.0	2.1 0.2	2.7 0.6	7.3 1.2	1.2 0.2	0.4 0.1	3.4 0.6
125.	TD	71.0	2.8 0.4	3.5 1.0	17.1 5.3	1.2 0.3	0.2 0.1	6.0 1.6
126.	TA	29.0	1.7 0.7	2.1 0.7	7.7 5.0	1.4 0.7	0.3 0.1	4.4 1.3
201.	K	55.0	1.0 0.6	1.9 0.4	6.0 1.3	1.3 0.8	0.3 0.1	5.9 2.5
314.	FMD	77.0	1.3 0.6	2.2 0.7	6.2 2.8	1.9 1.0	0.4 0.1	5.0 1.9

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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
104.	GAB	402.0	2.2 0.9	1.9 0.5	8.5 2.1	0.9 0.2	0.2 0.1	4.3 1.4
111.	GTB	42.0	1.7 0.4	1.9 0.6	10.8 4.7	1.1 0.2	0.2 0.1	6.0 1.5
112.	GTS	4.0	1.9 0.0	2.0 0.3	10.2 0.7	1.1 0.2	0.2 0.0	5.4 0.3
115.	TVU	6.0	0.9 0.4	1.2 0.2	3.7 1.4	1.2 0.3	0.3 0.1	4.0 0.7
117.	TKI	14.0	1.7 0.1	1.5 0.4	6.8 2.3	0.9 0.2	0.2 0.1	4.0 1.2
125.	TD	20.0	2.1 0.3	2.3 0.4	16.3 3.5	1.1 0.2	0.1 0.0	7.7 1.1
126.	TA	24.0	2.2 0.4	2.1 0.4	8.0 1.3	0.9 0.1	0.3 0.0	3.6 0.3

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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
103.	GAL	31.0	2.1 0.3	3.4 0.4	10.3 1.3	1.6 0.3	0.3 0.0	4.9 0.4
104.	GAB	296.0	2.2 0.3	2.2 0.6	7.3 2.0	1.0 0.3	0.3 0.1	3.4 0.9
111.	GTB	5.0	1.8 0.2	2.3 0.3	5.7 0.6	1.3 0.3	0.4 0.1	3.2 0.3
112.	GTS	127.0	2.3 0.4	3.2 0.7	10.5 2.4	1.4 0.5	0.3 0.1	4.6 0.5
115.	TVU	30.0	2.0 0.2	2.4 0.4	7.9 1.2	1.2 0.3	0.3 0.1	3.9 0.4

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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
104.	GAB	166.0	1.9 0.5	2.1 0.6	6.0 1.6	1.3 1.0	0.4 0.2	3.2 0.9
108.	GE	47.0	2.1 0.2	1.9 0.3	7.2 1.1	0.9 0.2	0.3 0.1	3.5 0.6
111.	GTB	29.0	1.9 0.3	1.7 0.5	5.7 2.7	0.9 0.2	0.3 0.1	2.9 1.1
112.	GTS	11.0	1.9 0.2	3.2 0.5	6.8 1.0	1.6 0.3	0.5 0.1	3.6 0.6
115.	TVU	103.0	2.0 0.3	2.0 0.5	7.1 1.8	1.0 0.3	0.3 0.1	3.6 0.7
121.	TT	7.0	2.1 0.3	2.6 0.2	7.6 1.0	1.2 0.1	0.3 0.0	3.6 0.2
123.	TPL	8.0	1.5 0.4	2.6 0.6	6.5 1.4	1.9 1.0	0.4 0.2	4.3 0.5
126.	TA	20.0	1.8 0.2	1.3 0.4	5.0 1.1	0.8 0.2	0.3 0.0	2.8 0.6
312.	PA	5.0	0.8 0.2	2.3 0.3	5.3 1.2	2.9 1.1	0.4 0.1	6.5 1.6
316.	P	30.0	0.6 0.2	2.5 0.4	3.7 1.4	3.6 1.1	0.7 0.3	5.7 2.3

NEW MEXICO-LAS CRUCES NI 13-10 QUADRANGLE
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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
103.	GAL	23.0	1.7 0.1	2.5 0.4	6.7 1.1	1.5 0.3	0.4 0.1	4.0 0.7
104.	GAB	211.0	1.9 0.2	1.8 0.3	4.9 0.6	1.0 0.2	0.4 0.1	2.7 0.4
108.	GB	23.0	1.2 0.1	1.8 0.4	5.7 0.6	1.0 0.2	0.3 0.1	3.2 0.4
112.	GTS	40.0	1.8 0.4	2.0 0.5	5.0 1.0	1.3 0.7	0.4 0.1	3.0 0.8
126.	TA	11.0	1.1 0.5	2.5 0.3	4.0 1.1	2.7 1.4	0.7 0.3	3.8 0.9
302.	PH	22.0	0.6 0.4	2.7 0.4	3.1 1.3	3.8 1.1	0.9 0.3	4.5 1.1

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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
103.	GAL	74.0	1.9 0.2	3.3 0.6	7.5 1.4	1.7 0.3	0.4 0.1	4.0 0.7
104.	GAB	82.0	2.5 0.6	3.5 1.0	11.2 4.2	1.4 0.6	0.3 0.2	4.3 1.0
112.	GTS	49.0	2.0 0.2	2.8 0.5	6.7 1.4	1.4 0.3	0.4 0.1	3.3 0.5
302.	PH	4.0	1.1 1.4	4.2 1.5	7.4 9.1	2.0 0.0	0.4 0.0	5.6 0.0

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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
104.	GAB	37.0	1.8 0.3	2.0 0.4	5.7 1.0	1.2 0.4	0.4 0.1	3.2 0.6
305.	SGC	10.0	0.9 0.2	2.1 0.4	3.8 0.8	2.4 0.9	0.6 0.2	3.9 0.5

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.	MEAN ST.DEV.	MEAN ST.DEV.	MEAN ST.DEV.
104.	GAB	37.0	1.8 0.1	1.7 0.2	4.7 0.5	1.0 0.1	0.4 0.1	2.6 0.3