UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

Geologic Reconnaissance and Geochemical Sampling Survey of Molybdenum Mineralization near Schiestler Peak, Temple Peak Quadrangle, Sublette County, Wyoming

By

G. K. Lee, J. C. Antweiler, J. D. Love, and J. F. Benedict

Open-File Report 82-299

1982

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

CONTENTS

ILLUSTRATIONS

TABLES

CONTENTS--Continued

TABLES--Continued

Abstract

A brief geologic reconnaissance and geochemical survey of molybdenum mineralization near Schiestler Peak, Sublette County, Wyo., indicates that molybdenite occurs in this area as disseminations and blebs in granitic or quartz monzonitic rocks intruded by felsic dikes of similar composition. Samples of stream sediments, panned concentrates from stream sediments, soils, rocks, and water were collected in the geochemical survey. Analytical results show that in reconnaissance, panned concentrates are the best of the sample types used in this study to detect molybdenum mineralization. More detailed analysis of the distribution of the molybdenum is best achieved through the collection of rock samples. Hydrothermal alteration is generally not conspicuous in the study area; however, rock samples that contain molybdenite are usually slightly enriched in silver, copper, lead, and in several instances, gold. Conversely, there appear to be negative associations between molybdenum and zinc and between molybdenum and several of the rare-earth elements. Mo concentrations in the rock samples with no visible molybdenite range from undetectable at a sensitivity of 5 parts per million (ppm) to 700 ppm. Mo content in rock samples containing visible molybdenite ranges from 10 ppm to greater than 2,000 ppm. Stream-sediment values range from undetected to 15 ppm; panned concentrates from undetected to 15 ppm; soils from undetected to 20 ppm. Analyses of the water samples indicate Mo concentrations from 0.8 parts per billion (ppb) to 4.8 ppb. As currently understood, this deposit is not extensive or continuous, but drilling to provide information on the vertical extent of mineralization may alter this opinion.

Introduction

The purpose of this report is to present the results of a brief geologic reconnaissance and geochemical survey of molybdenum mineralization near Schiestler Peak, Sublette County, Wyo. This study was made at the request of the U.S. Forest Service to assist that agency in making land-use decisions. A more detailed study of the occurrence is being made in the form of an M.S. thesis by Jon Benedict of the University of Wyoming in connection with a mineral resources appraisal by the U.S. Geological Survey of the Bridger Wilderness.

No geologic report of the molybdenum deposits has ever been published although the deposits have been known since the 1930's (or earlier) when several 20-pound (10 kg) specimens were brought to the First National Bank in Lander, Wyo., by a prospector seeking capital. Those spectacular specimens consisted of molybdenite sheets in a quartz and feldspar matrix. The only previous geologic study was done by W. H. Wilson of the Wyoming Geological Survey who spent three days of reconnaissance in 1953 and prepared a brief, unpublished report in 1955, which included one analysis. U.S. Forest Service personnel from the headquarters of the Bridger-Teton National Forest in Jackson, Wyo., have collected an extensive file of correspondence and photographs relating to the mineralization but have no geologic reports of value.

Prospecting, staking, overstaking, and promoting of various types have been pursued by several individuals and companies in the area from the 1940's to 1980. Serious efforts of exploration and sampling were begun in 1963; a

road was built and heavy mill machinery was brought to the southwest side of Schiestler Peak (Plate 1). Because the deposits are in the Bridger Wilderness, there has been considerable opposition to any development. In 1979, the mining claims were owned by Timberline Minerals, Inc., Dubois, Wyo., who had leased the claims to Koppen Mining Company, Albuquerque, N. Mex. Koppen Mining was engaged in exploratory activity on the claims at the time of our work.

Acknowledgments

We are especially indebted to Mr. Al Reuter and other members of the U.S. Forest Service who assisted us in every way possible with this preliminary effort, including the use of a helicopter to provide access to the area. We gratefully acknowledge the cooperation of Koppen Mining Company in connection with our work.

Location

The attached map (Plate 1) (at back of report) shows the general geology and the geography of the area. The previous mining activity has taken place on the west, southwest, and south sides of Schiestler Peak with several other small prospects scattered about the general vicinity. The mineralization occurs in the northern half of the Temple Peak 7 1/2-minute quadrangle near and above timberline at elevations from about 9,700 feet to 11,200 feet above sea level. Access to the mining claims on Schiestler Peak is via an unimproved dirt road through a locked gate several miles to the southwest at Big Sandy Opening, one of the principal gateways to the Bridger Wilderness. Big Sandy Opening lies between Boulder, Wyo., and South Pass near the southern end of the Wind River Range and can be reached by dirt road from Boulder, from the old Oregon Trail road east of Farson, Wyo., or from a dirt road leading east from U.S. Highway 187 between Farson and Boulder. Access to other molybdenite occurrences in the area is only by foot.

General Geology

All the bedrock in the Schiestler Peak area is thought to be Precambrian in age, based on the general geology and appearance of the rocks throughout the extent of the Wind River Range. No evidence, regionally or locally, has been found to suggest Laramide or younger igneous activity in the Wind River Range. Rocks collected for age dating in the vicinity of the mineralized rocks have not yet been analyzed.

The Precambrian geology in the Schiestler Peak area (Plate 1) is dominated by two phases of a batholithic complex, an older diorite phase, and a younger granitic or quartz monzonitic phase. This batholith crops out throughout much of the southern Wind River Range and is bounded by Archaean gneisses on both its northern and southern margins. The southern gneiss (outside map area) is found within 6.4 km (4 mi) of Schiestler Peak and has definite sedimentary characteristics. The northern gneiss (north of map area) is more felsic than the southern gneiss, and could be of either igneous or sedimentary origin.

The quartz diorite phase of the batholith is the oldest rock cropping out in the study area. This phase is uniform in both composition and appearance throughout its extent. It is a medium-grained, equigranular rock with slight

to moderate foliation and a "salt and pepper" appearance. It is found structurally beneath the younger phase of the batholith in many places cropping out along valleys and in cirque bottoms.

The younger granitic or quartz monzonitic phase covers about two-thirds of the study area. It is variable in both composition and appearance, ranging from equigranular granitic to porphyritic quartz dioritic (with microcline phenocrysts) to an interlayering of these two types. Discontinuous felsic dikes and(or) inclusions of similar composition are concentrated in zones within this unit but with no general trend. Molybdenum mineralization is restricted to this younger phase of the batholith.

The two phases of the Precambrian batholith are spatially associated across a transitional contact which parallels the foliation of the adjacent rock. This contact is a zone made up of an intermixture of both phases through a width of from 10 to 500 meters. The contact zone is roughly planar, paralleling a plane whose strike is N. 25° W. and dip is 35° NE., consistent with the dominant direction of foliation.

Two types of mafic intrusions crosscut the area. These are represented by fine-grained black dikes and grey-green dikes with porphyroblastic feldspars. The fine-grained black dikes are moderately continuous. They range from 10 centimeters to 4 meters in width and have no dominant trend. The porphyroblastic dikes range in width from 1 meter to 10 meters and generally trend N. 40° W. and dip 50° SW. Both types of dikes were intruded into the Precambrian country rock and are also thought to be of Precambrian age.

Structurally, the area is dominated by foliation which strikes N. 25° W. and dips 35° SW. This trend is defined both by mineral orientation of the batholithic rocks and by the trend of the contact between the two phases of the batholith. Fractures, joints, and shear zones in the area have no dominant azimuth, but generally dip along a nearly vertical plane. Chlorite and epidote are present in many of these structures. No mylonitization is found. Although silicification is rare within the study area, it is present in shear zones farther east.

Molybdenite Occurrences

The molybdenum mineralization occurs as molybdenite (MoS_2) disseminations and(or) blebs in the granite or quartz monzonite and was found in the country rock as well as in the felsic dikes or inclusions. In addition, MoS_2 was seen in quartz pegmatites and in quartz veinlets near shear zones.

The area was extensively glaciated and denuded of soil in Pleistocene time. The west-facing slopes of Schiestler Peak are comparatively gentle, but the north- and east-facing slopes are the headwalls of cirques and are vertical in places. In the past, many specimens of nearly pure molybdenite in granitic rock have been found in glacial debris in the area; thus, it is conceivable that the extant molybdenite deposits may be only a remnant of deposits which were at one time considerably larger.

Although the prospect pits exhibiting molybdenite on the southwest side of Schiestler Peak also contain marcasite, pyrite, and chalcopyrite, most other locations where molybdenite was seen display no macroscopically visible alteration or mineralization other than chlorite-epidote and occasional finely

disseminated pyrite. Moreover, there is no obvious relationship among the molybdenite occurrences except that they are found in a somewhat localized area and are of a similar deposit form. Rather, the MoS_2 seems to occur somewhat haphazardly within the study area in small, scattered, discontinuous zones.

The mafic dikes in the area are apparently unmineralized and the felsic dikes which, in some places, contain molybdenite, exhibit no general trend and do not parallel shear zones in the vicinity. In short, there is no obvious surficial evidence to suggest that the dikes are rooted to a hidden intrusive ore body.

Geochemical Sampling

To determine parameters for geochemical appraisal, samples were collected in the vicinities of known molybdenum occurrences using as media bedrock, soil, stream sediment, and heavy-mineral concentrates from stream sediments. A few water samples were collected from streams and springs for strictly reconnaissance purposes inasmuch as ground-water sample sites are scarce in the area. Nearly all stream drainages in the vicinity were sampled, and rock and soil sample sites were distributed in an area approximately two miles (3 km) in radius centered at the site of current exploration drilling being conducted by Koppen Mining Company on the southwest side of Schiestler Peak. Wherever rocks containing visible molybdenite were found, samples were collected and deliberately "high graded" to obtain a geochemical signature for the mineralization and should not, therefore, be considered as representative outcrop samples. Rocks exhibiting evidence of mineralization such as iron-oxide staining of disseminated sulfides were also preferentially collected wherever found. In addition, rock samples with no evidence of mineralization were collected to provide data to determine background abundances of elements.

Plate 2 shows the locations of the samples collected in the study area. Prefixes and suffixes have been deleted from the sample numbers for clarity.

Sample Preparation and Analysis

Rock samples were crushed, ground, split, and analyzed. Soil and stream-sediment samples were dried and sieved through an 80-mesh (177 micron) sieve and the minus-80-mesh fraction was analyzed. Panned concentrates were separated into magnetic and nonmagnetic fractions, examined for minerals present, and split for analysis. Water samples were collected in pairs--one raw and unfiltered for determination of pH and anion content and, at the same site, a second sample was filtered and acidified with nitric acid for analyses of Cu, Pb, Mo, and Zn concentrations. Six-step semiquantitative emission spectrographic analyses were made by R. T. Hopkins, Jr. of all the samples except the waters, using the method of Grimes and Marranzino (1968). Atomic-absorption analyses for Au, Ag, Cu, Pb, Zn, Sb, Cd, and Bi were made by W. L. Campbell using methods described by Ward and others (1969) and Viets and others (1979), in which the readily soluble portion of several elements is dissolved and analyzed. Water analyses were made by J. B. McHugh using methods described by Miller and Ficklin (1976). Mineralogical examination of the nonmagnetic fraction of the panned concentrates was conducted by R. B. Tripp. T. Hickey provided computer-generated statistical information.

Results

Tables 1, 3, 5, 8, 10, and 14 show the analytical values for the various sample types. In each case, only analyses of elements for which at least one sample shows a value at or above the detection limit are included. That is, elements which were undetected and(or) found below the measurable detection limit for all samples of a type were excluded from the tables. Table 2 shows the mineralogy of the nonmagnetic fraction of the panned concentrates and Table 7 shows the field descriptions of rock samples collected. Tables 4, 6, 9, and 11 show graphical illustrations of the distributions of the analytical values for the sample types. Tables 12 and 13 show the computer-generated statistical correlations between Mo and the other elements analyzed in the rock samples. To perform correlation analyses among the elements, the qualified analytical values, i.e., N - not detected at the limit of detection; L - detected, but below the limit of determination; and G - greater than the value shown, were replaced by 0.5 times the limit of detection, 0.7 times the limit of detection, and 1.5 times the value shown, respectively. These replacements facilitate the determination of possible negative correlations as well as positive associations among the data. In addition, the replacements help avoid the selective bias which may occur in using only unqualified data pairs to compute correlation coefficients. For example, any unqualified value for Mo may be considered to be anomalous in the samples analyzed; therefore using only sample data with unqualified values in correlation analyses for Mo necessarily selects only the samples which are mineralized. It may be argued that the replacement factors are unrealistic, but it should be pointed out that the correlation analyses are used in this case simply to provide suggestions of associations which may provide impetus for further, more detailed investigations. This is especially true in this instance inasmuch as the sampling coverage was, as previously indicated, quite selectively based. Tables 12A and 13A show the correlation coefficients using the analytical data in its original form and Tables 12B and 13B show correlations using the logarithms of the original data. The log-transformations tend to highlight associations in the data since many trace-element distributions are found to be at least approximately log-normal.

Discussion

At a confidence level of 95 percent, a correlation coefficient of absolute value greater than or equal to 0.53 implies significant association for the 12 selected rock samples in Table 13 and a coefficient of 0.22 or greater suggests meaningful correlation for the other 77 rock samples in Table 12 (Snedeco, 1946). Using these coefficients it can be seen from Tables 12 and 13 that Cu, Au, Ag, and Pb are elements which appear to be associated with Mo in a positive sense whereas Ca, Be, La, Sc, Y, and Zn coefficients seem to show significant negative correlation with Mo.

The rare earths are found in biotite, rutile, zircon, and monazite, and it is possible that these minerals have been altered in the area of mineralization as may be evidenced by the negative associations with Mo. The zinc values in the rock samples are all significantly lower than what might be expected in felsic igneous rocks in general (Hawkes and Webb, 1962). It is unclear whether this is a real effect of a chemical differentiation process in the area or a result of insolubility of the zinc minerals which would affect the atomic-absorption determinations. At any rate, the negative correlations between Mo and Zn and(or) the rare earths indicate that further

study along these lines might provide an aid to exploration in the area.

Because of their economic importance and apparently significant positive statistical associations with the molybdenum mineralization in the area, Au, Cu, Ag, and Pb have been selected along with Mo as the elements of greatest interest in this preliminary study. Plates 3 and 4 show Mo anomaly locations and sites of samples with anomalous Au, Cu, Ag, and Pb values, respectively. The thresholds for indicating geochemical anomalies were chosen as any analytical value at or above the detection limit for spectrographic determinations of Ag and Mo and any value at or above the detection limit for atomic-absorption determinations of Au. For Cu and Pb the thresholds were chosen as twice the mean of background values as suggested by Boyle (1971).

Analyses of the mineralized rocks show that Mo is accompanied by traces of Au in 7 of the 12 samples (Table 10). This suggests a significant Mo-Au association, which is also indicated in the correlation coefficients (Table 13). All four of the panned concentrate samples in which Au was detected (Table 1) were taken in drainages below Mo mineralization. Mo was also found in analyses of these concentrates. Analyses of panned concentrates that show either Mo or Au in other drainages should therefore be useful as prospecting guides elsewhere in the Wind River Mountains.

Even though only four water samples were collected, it can be seen that two of them are considerably higher in Mo content than the others (Table 14). These two samples, as located in Plate 2, are from ground water in the proximity of the molybdenum mining prospects in contrast to the samples much lower in Mo content that were collected at locations approximately two miles (3 km) from the mining activity. This suggests that water sampling may be a useful reconnaissance tool for detecting molybdenum mineralization in the area provided suitable sample sites are available.

From Plate 3 it can be seen that Mo anomalies in the stream sediments and panned concentrates ring the area of mineralization quite effectively. The concentrates show anomalies at greater distances from the known Mo occurrences and are, therefore, the best of the sample types used in this study in terms of reconnaissance exploration. The sediment samples more tightly encircle the mineralized vicinity and provide a somewhat more specific delineation of the area of interest. The results suggest, therefore, that a reconnaissance effort aimed at discovering molybdenum in this region is best served by using stream sediments and panned concentrates in tandem.

The soil samples were taken to give backup data for the rock samples and to provide information from locations where outcrops were not available. The anomalies indicated from the soil data suggest, however, that in most cases the rock samples provide greater sensitivity. Rock samples, upon examination of Plates 3 and 4, are seen to provide the greatest detail with regard to the distribution and intensity of the occurrences of mineralization.

Conclusions

Evidence of mineralization in the vicinity of Schiestler and Temple Peaks is restricted to several scattered occurrences of molybdenite except on the southwest side of Schiestler Peak where sulfides of iron and copper also occur. With the exception of the localized occurrences at these prospect

sites, the molybdenum mineralization in the area is not intense and is not widely disseminated in any continuous fashion. The anomalies found in the geochemical survey corroborate the field observations to this effect.

Examination of the plotted Mo anomalies shows that the stream-sediment panned-concentrate sampling approach neatly spotlights the general area of molybdenum mineralization in the area, thus providing an effective reconnaissance method of investigation. Collection and analysis of rock samples, on the other hand, provides more detailed information on the distribution of the molybdenum mineralization. Moreover, manipulation and study of the rock sample data has suggested other elemental associations with molybdenum which may be of further use in mineral resource exploration in this area.

References Cited

Boyle, R. W., 1971, Geochemical Prospecting, in Encyclopedia of Science and Technology (3rd edition): New York, McGraw-Hill, 594 p.

Grimes, D. J., and Marranzino, A. P., 1968, Direct current arc and alternating-current spark emission spectrographic field methods for the semiquantitative analysis of geologic materials: U.S. Geological Survey Circular 591, 6 p.

Hawkes, H. E., and Webb, J. S., 1962, Geochemistry in Mineral Exploration: New York, Harper and Row, p. 364, 376-377.

Miller, W. R., and Ficklin, W. H., 1976, Molybdenum mineralization in the White River National Forest, Colorado: U.S. Geological Survey Open-File Report 76-111, 29 p.

Snedecor, G. W., 1946, Statistical Methods, 4th edition: Ames, Iowa, The Iowa State College Press, 458 p.

Viets, J. G., Clark, J. R., and Campbell, W. L., 1979, A rapid, sensitive, partial leach and organic separation for the determination of Ag, Bi, Cd, Cu, Pb, Sb, and Zn by atomic absorption spectrometry in Exploration Geochemistry in the Basin and Range Province, Tucson, Arizona, April 9 and 10, 1979: Program and Abstracts, p. 32.

Ward, F. N., Nakagawa, H. N., Harms, T. F., and Van Sickle, G. H., 1969, Atomic absorption methods useful in geochemical exploration: U.S. Geological Survey Bulletin 1289, 45 p.

TABLE 1.--Analytical Values of Panned Concentrate Samples

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-B	S-BA	S-BE	S-CO	S-CR	S-CU	S-LA
TEM0239P	42 42 16	109 10 18	30	.50	5	1.5	1,000	N	200	N	20	500	20	1,500
TEM0259P	42 44 14	109 11 45	15	1.50	7	>2.0	3,000	20	70	3	15	50	15	200
TEM0261P	42 44 5	109 11 50	30	.10	2	1.5	1,000	N	100	N	50	500	50	150
TEM0263P	42 44 12	109 11 54	30	1.50	5	2.0	2,000	N	200	<2	50	300	30	500
TEM0265P	42 44 5	109 10 45	30	2.00	5	>2.0	3,000	N	100	<2	30	200	20	150
TEM0267P	42 42 58	109 10 11	30	1.00	3	1.5	1,500	N	150	<2	20	200	15	150
TEM0286P	42 42 36	109 11 55	20	.70	5	>2.0	3,000	N	70	N	20	150	30	700
TEM0288P	42 42 33	109 11 53	30	.30	5	1.0	700	N	70	N	15	200	<10	200
TEM0300P	42 42 28	109 12 45	50	.10	1	1.0	1,000	N	100	N	50	500	<10	N
TEM0346P	42 42 54	109 14 9	15	.70	7	>2.0	3,000	N	70	N	15	50	20	150
TEM0011P	42 42 51	109 12 38	30	.50	3	>2.0	3,000	N	70	N	20	300	30	150
TEM0012P	42 42 51	109 12 38	30	.30	2	>2.0	5,000	N	70	N	15	300	50	70
TEM0014P	42 42 51	109 12 38	30	1.00	5	>2.0	5,000	N	70	N	20	300	50	150
TEM0015P	42 42 11	109 13 41	50	.15	2	2.0	2,000	N	70	N	20	500	15	150
TEM0016P	42 42 11	109 13 41	30	.50	5	>2.0	3,000	N	50	N	20	300	30	300
TEM0019P	42 43 35	109 11 35	30	.70	2	2.0	2,000	N	50	N	20	300	15	<50
TEM0020P	42 43 37	109 11 32	30	.30	2	1.5	1,000	N	50	N	20	500	10	70
TEM0023P	42 44 34	109 11 56	30	.70	5	1.5	1,000	N	70	N	20	200	30	700
TEM0026P	42 44 29	109 12 25	20	1.00	3	2.0	1,500	N	70	N	20	500	20	150

TABLE 1.--Analytical Values of Panned Concentrate Samples

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-B	S-BA	S-BE	S-CO	S-CR	S-CU	S-LA
TEM0239P	42 42 16	109 10 18	30	.50	5	1.5	1,000	N	200	N	20	500	20	1,500
TEM0259P	42 44 14	109 11 45	15	1.50	7	>2.0	3,000	20	70	3	15	50	15	200
TEM0261P	42 44 5	109 11 50	30	.10	2	1.5	1,000	N	100	N	50	500	50	150
TEM0263P	42 44 12	109 11 54	30	1.50	5	2.0	2,000	N	200	<2	50	300	30	500
TEM0265P	42 44 5	109 10 45	30	2.00	5	>2.0	3,000	N	100	<2	30	200	20	150
TEM0267P	42 42 58	109 10 11	30	1.00	3	1.5	1,500	N	150	<2	20	200	15	150
TEM0286P	42 42 36	109 11 55	20	.70	5	>2.0	3,000	N	70	N	20	150	30	700
TEM0288P	42 42 33	109 11 53	30	.30	5	1.0	700	N	70	N	15	200	<10	200
TEM0300P	42 42 28	109 12 45	50	.10	1	1.0	1,000	N	100	N	50	500	<10	N
TEM0346P	42 42 54	109 14 9	15	.70	7	>2.0	3,000	N	70	N	15	50	20	150
TEM0011P	42 42 51	109 12 38	30	.50	3	>2.0	3,000	N	70	N	20	300	30	150
TEM0012P	42 42 51	109 12 38	30	.30	2	>2.0	5,000	N	70	N	15	300	50	70
TEM0014P	42 42 51	109 12 38	30	1.00	5	>2.0	5,000	N	70	N	20	300	50	150
TEM0015P	42 42 11	109 13 41	50	.15	2	2.0	2,000	N	70	N	20	500	15	150
TEM0016P	42 42 11	109 13 41	30	.50	5	>2.0	3,000	N	50	N	20	300	30	300
TEM0019P	42 43 35	109 11 35	30	.70	2	2.0	2,000	N	50	N	20	300	15	<50
TEM0020P	42 43 37	109 11 32	30	.30	2	1.5	1,000	N	50	N	20	500	10	70
TEM0023P	42 44 34	109 11 56	30	.70	5	1.5	1,000	N	70	N	20	200	30	700
TEM0026P	42 44 29	109 12 25	20	1.00	3	2.0	1,500	N	70	N	20	500	20	150

TABLE 1.--Continued

Sample	S-MO	S-NB	S-NI	S-PB	S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-AU-P
TEM0239P	N	<50	50	300	50	N	1,500	700	200	N	700	.30
TEM0259P	N	<50	30	50	70	N	1,000	200	150	<500	150	.20
TEM0261P	N	<50	30	50	30	N	300	1,000	70	N	700	<.05
TEM0263P	N	<50	70	30	50	N	300	700	150	N	300	<.05
TEM0265P	N	50	70	30	70	N	300	500	100	500	100	<.05
TEM0267P	N	<50	50	70	70	N	200	700	150	N	200	.30
TEM0286P	N	50	30	70	50	N	1,000	300	200	N	700	<.05
TEM0288P	N	N	20	20	50	N	1,000	700	50	<500	100	<.05
TEM0300P	N	N	50	N	10	N	N	1,000	50	N	700	<.05
TEM0346P	N	50	10	30	70	N	2,000	300	70	N	300	<.05
TEM0011P	N	50	50	100	70	N	700	500	100	N	1,000	.20
TEM0012P	N	<50	20	20	50	N	200	500	70	<500	200	<.05
TEM0014P	N	<50	30	<20	100	N	1,000	300	150	500	200	<.05
TEM0015P	N	<50	50	<20	30	N	300	700	70	N	1,500	<.05
TEM0016P	N	<50	10	50	70	N	1,500	500	70	N	2,000	<.05
TEM0019P	N	<50	50	20	50	N	200	700	70	N	>2,000	<.05
TEM0020P	N	<50	30	30	50	N	200	700	50	N	700	<.05
TEM0023P	N	<50	20	50	50	N	700	700	100	N	500	<.05
TEM0026P	N	<50	30	50	50	N	500	700	70	N	300	<.05

Table 2.--Mineralogy of the Nonmagnetic Fraction of Panned Concentrate Samples

Sample No.	Minerals Found
TEM239P	Mostly sphene, apatite, zircon
TEM259P	Mostly sphene, apatite, zircon, trace pyrite
TEM261P	Mostly sphene, apatite, zircon
TEM263P	Mostly sphene, apatite, zircon
TEM265P	Mostly sphene, apatite, zircon
TEM267P	Mostly sphene, apatite, zircon
TEM286P	Mostly sphene, apatite, zircon
TEM288P	Mostly sphene, apatite, zircon, barite
TEM300P	Mostly sphene, apatite, zircon
TEM346P	Mostly sphene, apatite, zircon
TEM011P	Mostly sphene, apatite, zircon
TEM012P	Mostly sphene, apatite, zircon
TEM014P	Mostly sphene, apatite, zircon
TEM015P	Mostly sphene, apatite, zircon, Powellite
TEM016P	Mostly sphene, apatite, zircon
TEM019P	Mostly sphene, apatite, zircon
TEM020P	Mostly sphene, apatite, zircon
TEM023P	Mostly sphene, apatite, zircon
TEM026P	Mostly sphene, apatite, zircon, trace pyrite

TABLE 3.--Analytical Values of Stream-Sediment Samples

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-B	S-BA	S-BE
TEM0238S	42 42 15	109 10 14	3.0	1.0	1.5	.5	500	30	300	1.5
TEM0240S	42 42 16	109 10 18	3.0	1.0	1.5	.5	300	15	700	1.5
TEM0248S	42 42 21	109 10 14	2.0	1.0	1.0	.3	300	15	300	1.5
TEM0260S	42 44 14	109 11 45	2.0	.7	1.5	.3	500	20	300	2.0
TEM0262S	42 44 5	109 11 50	2.0	.5	1.0	.3	300	10	300	2.0
TEM0264S	42 44 12	109 11 54	5.0	1.0	2.0	.5	700	<10	300	1.5
TEM0266S	42 44 5	109 10 45	1.5	.5	1.5	.3	300	30	300	2.0
TEM0268S	42 42 58	109 10 11	1.5	.5	.7	.3	700	50	300	2.0
TEM0287S	42 42 36	109 11 55	5.0	1.0	2.0	.7	500	20	1,000	1.5
TEM0289S	42 42 33	109 11 55	5.0	.7	1.5	.5	1,000	20	700	2.0
TEM0297S	42 42 7	109 11 43	5.0	1.5	2.0	.7	700	20	1,000	1.5
TEM0298S	42 42 8	109 11 38	5.0	1.5	2.0	.7	300	15	1,500	1.5
TEM0299S	42 42 23	109 11 34	3.0	1.5	3.0	.7	500	15	1,000	2.0
TEM0301S	42 42 28	109 12 45	3.0	1.0	2.0	.7	300	20	1,000	2.0
TEM0327S	42 43 2	109 13 2	3.0	.7	2.0	.5	300	10	500	1.5
TEM0328S	42 42 51	109 13 6	3.0	.5	1.5	.5	700	15	500	1.5
TEM0330S	42 42 35	109 10 50	3.0	1.0	2.0	.5	700	10	500	1.5
TEM0341S	42 43 2	109 11 8	7.0	1.5	3.0	.7	700	10	500	1.5
TEM0344S	42 43 36	109 11 31	3.0	.7	2.0	.5	1,500	20	300	1.5
TEM0347S	42 42 54	109 14 9	3.0	.7	2.0	.7	500	15	500	1.5
TEM0003S	42 43 9	109 11 53	3.0	1.0	.7	.3	500	50	500	1.5
TEM0015S	42 42 51	109 12 38	3.0	.7	2.0	.7	700	30	500	1.5
TEM0017S	42 43 33	109 11 35	3.0	1.5	2.0	.7	500	30	500	1.5
TEM0024S	42 44 34	109 11 56	2.0	.7	1.5	.5	1,000	50	300	1.5
TEM0025S	42 44 38	109 12 8	5.0	1.5	2.0	.7	700	20	300	1.5
TEM0027S	42 44 29	109 12 25	5.0	1.5	2.0	.7	700	20	300	1.5

TABLE 3.--Continued

Sample	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB	S-SC	S-SR	S-V
TEM0238S	10	15	20	100	N	20	70	10	300	70
TEM0240S	10	20	15	100	N	15	50	7	500	70
TEM0248S	7	30	20	100	N	10	70	7	300	50
TEM0260S	7	15	15	100	<5	15	50	7	300	50
TEM0262S	7	10	15	150	N	10	30	7	200	50
TEM0264S	10	50	20	100	N	20	50	10	300	70
TEM0266S	7	15	15	70	N	10	30	7	300	50
TEM0268S	7	10	20	200	N	10	150	7	200	50
TEM0287S	7	50	20	100	5	20	50	10	300	70
TEM0289S	7	20	20	100	N	10	50	7	300	100
TEM0297S	10	20	20	70	N	20	50	10	700	100
TEM0298S	10	20	20	70	N	20	50	7	500	100
TEM0299S	10	70	30	70	N	30	30	10	500	70
TEM0301S	10	30	15	70	N	15	30	10	500	70
TEM0327S	10	15	15	70	N	10	30	10	500	70
TEM0328S	7	20	15	70	N	10	30	7	300	70
TEM0330S	7	15	70	100	N	10	50	7	300	50
TEM0341S	10	15	70	100	N	20	70	10	300	70
TEM0344S	7	15	50	50	<5	15	70	7	150	70
TEM0347S	7	15	10	50	N	10	30	7	300	70
TEM0003S	10	20	30	70	15	15	30	7	200	50
TEM0013S	10	30	15	70	5	10	30	10	300	70
TEM0017S	10	30	30	150	7	15	70	15	300	70
TEM0024S	10	15	15	100	N	15	50	10	300	50
TEM0025S	10	30	20	70	N	20	30	10	300	70
TEM0027S	10	20	20	100	N	30	50	10	300	70

TABLE 3.--Continued

Sample	S-Y	S-ZR	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P	AA-SB-P
TEM0238S	30	200	11	27	42	.09	.40	N	N
TEM0240S	20	300	15	40	41	.09	.47	N	N
TEM0248S	20	500	12	47	46	.15	.60	N	N
TEM0260S	30	300	14	33	59	.10	1.00	N	N
TEM0262S	20	300	14	18	53	.10	.06	N	N
TEM0264S	30	300	17	24	56	.07	.84	2	N
TEM0266S	20	300	14	30	53	.09	.30	N	N
TEM0268S	20	150	31	270	98	.31	2.80	N	N
TEM0287S	30	500	10	20	66	.08	.26	N	N
TEM0289S	30	200	14	27	53	.15	.54	N	N
TEM0297S	30	300	11	25	57	.10	.33	N	N
TEM0298S	30	300	11	24	43	.07	.28	N	N
TEM0299S	30	300	18	17	51	.09	.21	N	N
TEM0301S	30	300	6	11	42	.08	.17	N	N
TEM0327S	30	500	6	9	38	.07	N	N	N
TEM0328S	30	500	10	16	59	.10	.28	N	1
TEM0330S	20	300	24	40	51	.12	.48	1	1
TEM0341S	30	300	30	44	67	.14	.40	2	2
TEM0344S	30	500	22	66	81	.16	3.00	2	N
TEM0347S	30	300	6	9	44	.06	.10	1	1
TEM0003S	20	100	19	21	55	.09	.18	2	1
TEM0013S	50	700	8	16	56	.09	.22	1	1
TEM0017S	50	500	21	35	72	.18	.72	1	1
TEM0024S	30	300	16	22	2	.15	.72	N	N
TEM0025S	30	300	15	15	68	.10	.34	N	N
TEM0027S	50	700	12	18	58	.09	.60	N	N

TABLE 4.--Graphical Analyses of Stream-Sediment Samples

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

TITLE	INPUT ID	N	M	***** OPTIONS ****
bridger stream seds	-bridger -	27	29	1 0 0 0 2 1 0 0 0 0

NUMBER OF SELECTED VARIABLES = 27

SELECTED VARIABLE INDICES

3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22
23	24	25	26	27	28	29			

SELECTED VARIABLE IDENTIFIERS

S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-B	S-BA	S-BE	S-CO	S-CR
S-CU	S-LA	S-MO	S-NI	S-PB	S-SC	S-SR	S-V	S-Y	S-ZR
AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P	AA-SB-P			

SELECTED ROW PAIRS

1 TO 27

LOWER BOUNDARIES OF THE LOWEST CLASSES

0.08300	-0.41700	-0.25000	-0.58400	2.41600	0.58300	2.41600	0.08300	0.75000	0.91600
0.75000	1.41600	0.25000	0.91600	1.41600	0.75000	2.08300	1.58300	1.25000	1.91600
0.41600	0.58300	0.25000	-1.58400	-1.75000	-0.41700	-0.41700			

CLASS INTERVALS

0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667			

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	I	0	0	0.00	0.00		
-4.170E-01	-2.503E-01	5	5	18.52	18.52	2.860E+00	1.600E+00
-2.503E-01	-8.367E-02	7	12	25.93	44.44	8.115E+00	1.531E-01
-8.367E-02	8.300E-02	8	20	29.63	74.07	9.656E+00	2.839E-01
8.300E-02	2.497E-01	7	27	25.93	100.00	5.923E+00	1.959E-01
	G	0	27	0.00	100.00		
	H	0	27				
	B	0	27				
TOTALS LESS H AND B		27				2.655E+01	2.233E+00

HISTOGRAM FOR VARIABLE 4 (S-MG%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 4.638E-01 XXXXXXXXXXXXXXXXXX
 6.808E-01 XXXXXXXXXXXXXXXXXXXXXXXXX
 9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.467E+00 XXXXXXXXXXXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E-01
MAXIMUM ANTILOG	=	1.50000E+00
GEOMETRIC MEAN	=	8.90732E-01
GEOMETRIC DEVIATION	=	1.48622E+00
VARIANCE OF LOGS	=	2.96127E-02

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.524159E-01	0.886307E+00
75.00	0.100000E+36	0.100000E+36
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 5 (S-CA%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-2.500E-01 - -8.333E-02	2	2	7.41	7.41	5.741E-01	3.541E+00
-8.333E-02 - 8.333E-02	2	4	7.41	14.81	4.189E+00	1.144E+00
8.333E-02 - 2.500E-01	7	11	25.93	40.74	1.041E+01	1.118E+00
2.500E-01 - 4.167E-01	14	25	51.85	92.59	8.909E+00	2.909E+00
4.167E-01 - 5.833E-01	2	27	7.41	100.00	2.889E+00	2.738E-01
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.697E+01	8.986E+00

HISTOGRAM FOR VARIABLE 5 (S-CA%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E-01 XXXXXXX
1.000E+00 XXXXXXX
1.468E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E-01
MAXIMUM ANTILOG = 3.00000E+00
GEOMETRIC MEAN = 1.68117E+00
GEOMETRIC DEVIATION = 1.42482E+00
VARIANCE OF LOGS = 2.36421E-02

PERCENT TABLE FOR VARIABLE 5 (S-CA%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.279763E+00	0.190442E+01
75.00	0.360120E+00	0.229150E+01
90.00	0.408335E+00	0.256056E+01
95.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-5.840E-01 - -4.173E-01	6	6	22.22	22.22	4.519E+00	4.852E-01
-4.173E-01 - -2.507E-01	10	16	37.04	59.26	1.144E+01	1.819E-01
-2.507E-01 - -8.400E-02	11	27	40.74	100.00	1.050E+01	2.337E-02
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS N AND B	27				2.647E+01	6.904E-01

HISTOGRAM FOR VARIABLE 6 (S-TI%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
  3.157E-01 XXXXXXXXXXXXXXXXXXXXX
  4.634E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  6.802E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	3.00000E-01
MAXIMUM ANTILOG	=	7.00000E-01
GEOMETRIC MEAN	=	5.11922E-01
GEOMETRIC DEVIATION	=	1.38809E+00
VARIANCE OF LOGS	=	2.02831E-02

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.292333E+00	0.510114E+00
75.00	0.100000E+36	0.100000E+36
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 8 (S-B)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
5.830E-01 -	7.497E-01	1	1	3.70	3.70	4.382E-01	7.205E-01
7.497E-01 -	9.163E-01	1	2	3.70	7.41	1.688E+00	2.802E-01
9.163E-01 -	1.083E+00	4	6	14.81	22.22	4.181E+00	7.872E-03
1.083E+00 -	1.250E+00	6	12	22.22	44.44	6.669E+00	6.715E-02
1.250E+00 -	1.416E+00	8	20	29.63	74.07	6.850E+00	1.931E-01
1.416E+00 -	1.583E+00	4	24	14.81	88.89	4.530E+00	6.211E-02
1.583E+00 -	1.750E+00	3	27	11.11	100.00	2.562E+00	7.496E-02
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.692E+01	1.406E+00

HISTOGRAM FOR VARIABLE 8 (S-B)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 4.638E+00 XXXX
 6.808E+00 XXXX
 9.992E+00 XXXXXXXXXXXXXX
 1.467E+01 XXXXXXXXXXXXXXXXXXXXX
 2.153E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 3.160E+01 XXXXXXXXXXXXXX
 4.638E+01 XXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 5.00000E+01
GEOMETRIC MEAN = 1.81881E+01
GEOMETRIC DEVIATION = 1.76395E+00
VARIANCE OF LOGS = 6.07561E-02

PERCENT TABLE FOR VARIABLE 8 (S-B) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.128092E+01	0.190949E+02
75.00	0.142675E+01	0.267148E+02

TABLE 4.--Continued

90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 9 (S-BA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
2.416E+00 -	2.583E+00	11	11	40.74	40.74	5.811E+00	4.633E+00
2.583E+00 -	2.749E+00	9	20	33.33	74.07	8.242E+00	6.979E-02
2.749E+00 -	2.916E+00	2	22	7.41	81.48	6.491E+00	3.108E+00
2.916E+00 -	3.083E+00	4	26	14.81	96.30	2.838E+00	4.756E-01
3.083E+00 -	3.249E+00	1	27	3.70	100.00	7.871E-01	5.758E-02
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.417E+01	8.343E+00

HISTOGRAM FOR VARIABLE 9 (S-BA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+02 XXXXXXX
9.985E+02 XXXXXXXXXXXXXXX
1.466E+03 XXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+02
MAXIMUM ANTILOG = 1.50000E+03
GEOMETRIC MEAN = 4.80485E+02
GEOMETRIC DEVIATION = 1.62848E+00
VARIANCE OF LOGS = 4.48517E-02

PERCENT TABLE FOR VARIABLE 9 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.262896E+01	0.425563E+03
75.00	0.277017E+01	0.589071E+03
90.00	0.301183E+01	0.102762E+04
95.00	0.306806E+01	0.116973E+04
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 10 (S-BE)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
8.300E-02 - 2.497E-01	20	20	74.07	74.07	2.045E+01	1.005E-02
2.497E-01 - 4.163E-01	7	27	25.93	100.00	6.216E+00	9.894E-02
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.667E+01	1.090E-01

HISTOGRAM FOR VARIABLE 10 (S-BE)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
1.467E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.153E+00 XXXXXXXXXXXXXXXXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+00
MAXIMUM ANTILOG = 2.00000E+00
GEOMETRIC MEAN = 1.61615E+00
GEOMETRIC DEVIATION = 1.13709E+00
VARIANCE OF LOGS = 3.11305E-03

PERCENT TABLE FOR VARIABLE 10 (S-BE) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100000E+36	0.100000E+36
75.00	0.100000E+36	0.100000E+36
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 11 (S-CO)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
7.500E-01 - 9.167E-01	12	12	44.44	44.44	1.124E+01	5.147E-02
9.167E-01 - 1.083E+00	15	27	55.56	100.00	1.548E+01	1.478E-02
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.672E+01	6.625E-02

HISTOGRAM FOR VARIABLE 11 (S-CO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 8.53404E+00
GEOMETRIC DEVIATION = 1.19795E+00
VARIANCE OF LOGS = 6.15248E-03

PERCENT TABLE FOR VARIABLE 11 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100000E+36	0.100000E+36
75.00	0.100000E+36	0.100000E+36
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 12 (S-CR)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
9.160E-01	-	1.083E+00	2	2	7.41	7.41	2.791E+00	2.240E-01
1.083E+00	-	1.249E+00	10	12	37.04	44.44	6.633E+00	1.709E+00
1.249E+00	-	1.416E+00	7	19	25.93	70.37	8.464E+00	2.533E-01
1.416E+00	-	1.583E+00	5	24	18.52	88.89	5.801E+00	1.106E-01
1.583E+00	-	1.749E+00	2	26	7.41	96.30	2.134E+00	8.381E-03
1.749E+00	-	1.916E+00	1	27	3.70	100.00	4.671E-01	6.081E-01
	G		0	27	0.00	100.00		
	H		0	27				
	B		0	27				
TOTALS LESS H AND B			27				2.629E+01	2.913E+00

HISTOGRAM FOR VARIABLE 12 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XXXXXXX
1.466E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXXXXX
4.634E+01 XXXXXXX
6.802E+01 XXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 7.00000E+01
GEOMETRIC MEAN = 2.06393E+01
GEOMETRIC DEVIATION = 1.60581E+00
VARIANCE OF LOGS = 4.23098E-02

PERCENT TABLE FOR VARIABLE 12 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.128505E+01	0.192774E+02
75.00	0.145767E+01	0.286859E+02
90.00	0.160767E+01	0.405199E+02
95.00	0.172017E+01	0.525011E+02

TABLE 4.--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 13 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
7.500E-01 -	9.167E-01	1	1	3.70	3.70	9.081E-01	9.298E-03
9.167E-01 -	1.083E+00	1	2	3.70	7.41	3.192E+00	1.506E+00
1.083E+00 -	1.250E+00	9	11	33.33	40.74	6.548E+00	9.185E-01
1.250E+00 -	1.417E+00	10	21	37.04	77.78	7.843E+00	5.935E-01
1.417E+00 -	1.583E+00	3	24	11.11	88.89	5.487E+00	1.128E+00
1.583E+00 -	1.750E+00	1	25	3.70	92.59	2.242E+00	6.878E-01
1.750E+00 -	1.917E+00	2	27	7.41	100.00	6.143E-01	3.126E+00
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.683E+01	7.968E+00

HISTOGRAM FOR VARIABLE 13 (S-CU)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
  6.813E+00 XXXX
  1.000E+01 XXXX
  1.468E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  3.162E+01 XXXXXXXXXXX
  4.642E+01 XXXX
  6.813E+01 XXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
MAXIMUM ANTILOG = 7.00000E+01
GEOMETRIC MEAN = 2.02280E+01
GEOMETRIC DEVIATION = 1.66736E+00
VARIANCE OF LOGS = 4.92971E-02

PERCENT TABLE FOR VARIABLE 13 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.129167E+01	0.195735E+02
75.00	0.140417E+01	0.253611E+02

TABLE 4.--Continued

90.00	0.163334E+01	0.429868E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

DD036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 14 (S-LA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.416E+00 -	1.583E+00	1	1	3.70	3.70	4.652E-01	6.146E-31
1.583E+00 -	1.749E+00	2	3	7.41	11.11	3.324E+00	5.273E-01
1.749E+00 -	1.916E+00	10	13	37.04	48.15	9.083E+00	9.253E-02
1.916E+00 -	2.083E+00	11	24	40.74	88.89	9.571E+00	2.135E-01
2.083E+00 -	2.249E+00	2	26	7.41	96.30	3.890E+00	9.182E-01
2.249E+00 -	2.416E+00	1	27	3.70	100.00	6.419E-01	1.998E-01
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.697E+01	2.566E+00

HISTOGRAM FOR VARIABLE 14 (S-LA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+01 XXXX
4.634E+01 XXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+02 XXXXXXX
2.151E+02 XXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 8.41700E+01
GEOMETRIC DEVIATION = 1.45751E+00
VARIANCE OF LOGS = 2.67688E-02

PERCENT TABLE FOR VARIABLE 14 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.192358E+01	0.838642E+02
75.00	0.202585E+01	0.106133E+03
90.00	0.210767E+01	0.128135E+03
95.00	0.222017E+01	0.166023E+03

TABLE 4--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 15 (S-MO)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
2.500E-01 - 4.167E-01	21	21	77.78	77.78	7.141E+00	2.690E+01
4.167E-01 - 5.833E-01	2	23	7.41	85.19	9.447E+00	5.870E+00
5.833E-01 - 7.500E-01	2	25	7.41	92.59	5.726E+00	2.425E+00
7.500E-01 - 9.167E-01	1	26	3.70	96.30	1.587E+00	2.171E-01
9.167E-01 - 1.083E+00	0	26	0.00	96.30	2.000E-01	2.000E-01
1.083E+00 - 1.250E+00	1	27	3.70	100.00	1.168E-02	8.363E+01
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.411E+01	1.192E+02

HISTOGRAM FOR VARIABLE 15 (S-MO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XXXXXXX
4.642E+00 XXXXXXX
6.813E+00 XXXX
1.000E+01
1.468E+01 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG     = 2.50000E+00
MAXIMUM ANTILOG     = 1.50000E+01
GEOMETRIC MEAN      = 2.99533E+00
GEOMETRIC DEVIATION = 1.52121E+00
VARIANCE OF LOGS    = 3.31928E-02
```

PERCENT TABLE FOR VARIABLE 15 (S-MO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100000E+36	0.100000E+36
75.00	0.100000E+36	0.100000E+36
90.00	0.691668E+00	0.491663E+01
95.00	0.858335E+00	0.721663E+01

TABLE 4--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 16 (S-NI)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	11	11	40.74	40.74	6.822E+00	2.559E+00
1.083E+00 -	1.249E+00	7	18	25.93	66.67	1.104E+01	1.481E+00
1.249E+00 -	1.416E+00	7	25	25.93	92.59	6.248E+00	9.054E-02
1.416E+00 -	1.583E+00	2	27	7.41	100.00	1.311E+00	3.621E-01
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.543E+01	4.493E+00

HISTOGRAM FOR VARIABLE 16 (S-NI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
    9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
    1.466E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
    2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXX
    3.157E+01 XXXXXXX
```

32

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 3.00000E+01
GEOMETRIC MEAN = 1.44225E+01
GEOMETRIC DEVIATION = 1.42853E+00
VARIANCE OF LOGS = 2.39902E-02

PERCENT TABLE FOR VARIABLE 16 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.114219E+01	0.138737E+02
75.00	0.130291E+01	0.200866E+02
90.00	0.139933E+01	0.250804E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 17 (S-PB)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.416E+00 -	1.583E+00	11	11	40.74	40.74	6.876E+00	2.473E+00
1.583E+00 -	1.749E+00	10	21	37.04	77.78	9.729E+00	7.527E-03
1.749E+00 -	1.916E+00	5	26	18.52	96.30	6.070E+00	1.887E-01
1.916E+00 -	2.083E+00	0	26	0.00	96.30	1.666E+00	1.666E+00
2.083E+00 -	2.249E+00	1	27	3.70	100.00	2.105E-01	2.961E+00
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.455E+01	7.296E+00

HISTOGRAM FOR VARIABLE 17 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
  3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  4.634E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  6.802E+01 XXXXXXXXXXXXXXXXXX
  9.985E+01
  1.466E+02 XXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 4.50110E+01
GEOMETRIC DEVIATION = 1.50501E+00
VARIANCE OF LOGS = 3.15203E-02

PERCENT TABLE FOR VARIABLE 17 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.162433E+01	0.421050E+02
75.00	0.173683E+01	0.545549E+02
90.00	0.185933E+01	0.723326E+02
95.00	0.190433E+01	0.802295E+02
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 18 (S-SC)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
7.500E-01 - 9.167E-01	14	14	51.85	51.85	1.164E+01	4.795E-01
9.167E-01 - 1.083E+00	12	26	44.44	96.30	1.343E+01	1.529E-01
1.083E+00 - 1.250E+00	1	27	3.70	100.00	1.182E+00	2.788E-02
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.625E+01	6.603E-01

HISTOGRAM FOR VARIABLE 18 (S-SC)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+01 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
MAXIMUM ANTILOG = 1.50000E+01
GEOMETRIC MEAN = 8.43728E+00
GEOMETRIC DEVIATION = 1.23584E+00
VARIANCE OF LOGS = 8.45726E-03

PERCENT TABLE FOR VARIABLE 18 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100000E+36	0.100000E+36
75.00	0.100347E+01	0.100803E+02
90.00	0.105972E+01	0.114742E+02
95.00	0.107847E+01	0.119804E+02
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 19 (S-SR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
2.083E+00 - 2.250E+00	1	1	3.70	3.70	1.070E+00	4.573E-03
2.250E+00 - 2.416E+00	3	4	11.11	14.81	6.101E+00	1.576E+00
2.416E+00 - 2.583E+00	16	20	59.26	74.07	1.135E+01	1.908E+00
2.583E+00 - 2.750E+00	6	26	22.22	96.30	6.942E+00	1.279E-01
2.750E+00 - 2.916E+00	1	27	3.70	100.00	1.478E+00	1.548E-01
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.694E+01	3.771E+00

HISTOGRAM FOR VARIABLE 19 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
1.467E+02 XXXX
2.153E+02 XXXXXXXXXXX
3.160E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+02 XXXXXXXXXXXXXXXXXXXXX
6.808E+02 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+02
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 3.23098E+02
GEOMETRIC DEVIATION = 1.41309E+00
VARIANCE OF LOGS = 2.25511E-02

PERCENT TABLE FOR VARIABLE 19 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.251529E+01	0.327561E+03
75.00	0.258995E+01	0.388996E+03
90.00	0.270245E+01	0.504018E+03
95.00	0.273995E+01	0.549472E+03
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 20 (S-V)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
1.583E+00	-	1.750E+00	9	9	33.33	33.33	6.583E+00	8.874E-01
1.750E+00	-	1.916E+00	15	24	55.56	88.89	1.639E+01	1.183E-01
1.916E+00	-	2.083E+00	3	27	11.11	100.00	3.811E+00	1.726E-01
	G		0	27	0.00	100.00		
	H		0	27				
	B		0	27				
TOTALS LESS H AND B			27				2.079E+01	1.178E+00

HISTOGRAM FOR VARIABLE 20 (S-V)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 4.638E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.808E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 9.992E+01 XXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 6.51028E+01
GEOMETRIC DEVIATION = 1.24609E+00
VARIANCE OF LOGS = 9.13001E-03

PERCENT TABLE FOR VARIABLE 20 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.179967E+01	0.630474E+02
75.00	0.187467E+01	0.749320E+02
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 21 (S-Y)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
1.250E+00 - 1.417E+00	7	7	25.93	25.93	8.884E+00	3.994E-01
1.417E+00 - 1.583E+00	17	24	52.96	88.89	1.337E+01	9.856E-01
1.583E+00 - 1.750E+00	3	27	11.11	100.00	3.710E+00	1.357E-01
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.596E+01	1.521E+00

HISTOGRAM FOR VARIABLE 21 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 5.00000E+01
GEOMETRIC MEAN = 2.85837E+01
GEOMETRIC DEVIATION = 1.30763E+00
VARIANCE OF LOGS = 1.35690E-02

PERCENT TABLE FOR VARIABLE 21 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.148039E+01	0.302268E+02
75.00	0.154657E+01	0.352022E+02
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

FREQUENCY TABLE FOR VARIABLE 22 (S-ZR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
1.916E+00 - 2.083E+00	1	1	3.70	3.70	2.780E-01	1.875E+00
2.083E+00 - 2.249E+00	1	2	3.70	7.41	1.882E+00	4.135E-01
2.249E+00 - 2.416E+00	2	4	7.41	14.81	6.045E+00	2.707E+00
2.416E+00 - 2.583E+00	15	19	55.56	70.37	9.250E+00	3.574E+00
2.583E+00 - 2.749E+00	6	25	22.22	92.59	6.754E+00	8.417E-02
2.749E+00 - 2.916E+00	2	27	7.41	100.00	2.770E+00	2.141E-01
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.698E+01	8.868E+00

HISTOGRAM FOR VARIABLE 22 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+01 XXXX
1.466E+02 XXXX
2.151E+02 XXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXXXXX
6.802E+02 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 3.24948E+02
GEOMETRIC DEVIATION = 1.53986E+00
VARIANCE OF LOGS = 3.51497E-02

PERCENT TABLE FOR VARIABLE 22 (S-ZR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.252156E+01	0.332320E+03
75.00	0.261739E+01	0.414372E+03
90.00	0.272989E+01	0.536896E+03
95.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 23 (AA-CU-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
4.160E-01 -	5.827E-01	1	1	3.70	3.70	2.547E-01	2.180E+00
5.827E-01 -	7.493E-01	0	1	0.00	3.70	1.277E+00	1.277E+00
7.493E-01 -	9.160E-01	4	5	14.81	18.52	3.835E+00	7.068E-03
9.160E-01 -	1.083E+00	7	12	25.93	44.44	6.907E+00	1.262E-03
1.083E+00 -	1.249E+00	8	20	29.63	74.07	7.464E+00	3.853E-02
1.249E+00 -	1.416E+00	5	25	18.52	92.59	4.841E+00	5.238E-03
1.416E+00 -	1.583E+00	2	27	7.41	100.00	2.389E+00	6.330E-02
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.697E+01	3.573E+00

HISTOGRAM FOR VARIABLE 23 (AA-CU-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+00 XXXX
4.634E+00
6.802E+00 XXXXXXXXXXXXXX
9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+00
MAXIMUM ANTILOG = 3.10000E+01
GEOMETRIC MEAN = 1.28231E+01
GEOMETRIC DEVIATION = 1.69091E+00
VARIANCE OF LOGS = 5.20393E-02

PERCENT TABLE FOR VARIABLE 23 (AA-CU-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.111392E+01	0.129992E+02
75.00	0.125767E+01	0.180996E+02

TABLE 4.--Continued

90.00	0.139267E+01	0.246984E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 24 (AA-PB-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
5.830E-01 -	7.497E-01	1	1	3.70	3.70	5.066E-01	4.805E-01
7.497E-01 -	9.163E-01	0	1	0.00	3.70	1.353E+00	1.353E+00
9.163E-01 -	1.083E+00	3	4	11.11	14.81	2.788E+00	1.615E-02
1.083E+00 -	1.250E+00	4	8	14.81	29.63	4.430E+00	4.175E-02
1.250E+00 -	1.416E+00	8	16	29.63	59.26	5.430E+00	1.216E+00
1.416E+00 -	1.583E+00	5	21	13.52	77.78	5.135E+00	3.548E-03
1.583E+00 -	1.750E+00	4	25	14.81	92.59	3.746E+00	1.726E-02
1.750E+00 -	1.916E+00	1	26	3.70	96.30	2.108E+00	5.821E-01
1.916E+00 -	2.083E+00	0	26	0.00	96.30	9.147E-01	9.147E-01
2.083E+00 -	2.250E+00	0	26	0.00	96.30	3.062E-01	3.062E-01
2.250E+00 -	2.416E+00	0	26	0.00	96.30	7.902E-02	7.902E-02
2.416E+00 -	2.583E+00	1	27	3.70	100.00	1.845E-02	5.222E+01
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.681E+01	5.723E+01

(42)

HISTOGRAM FOR VARIABLE 24 (AA-PB-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 XXXX
6.808E+00
9.992E+00 XXXXXXXXXX
1.467E+01 XXXXXXXXXXXXXX
2.153E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+01 XXXXXXXXXXXXXXXXXX
4.638E+01 XXXXXXXXXXXXXX
6.808E+01 XXXX
9.992E+01
1.467E+02
2.153E+02
3.160E+02 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 2.70000E+02
GEOMETRIC MEAN = 2.40113E+01
GEOMETRIC DEVIATION = 2.10649E+00
VARIANCE OF LOGS = 1.04691E-01

TABLE 4.--Continued

PERCENT TABLE FOR VARIABLE 24 (AA-PB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.136425E+01	0.231340E+02
75.00	0.155800E+01	0.361411E+02
90.00	0.172050E+01	0.525415E+02
95.00	0.185800E+01	0.721112E+02
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 25 (AA-ZN-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
2.500E-01 -	4.167E-01	1	1	3.70	3.70	3.347E-04	2.985E+03
4.167E-01 -	5.833E-01	0	1	0.00	3.70	3.103E-03	3.103E-03
5.833E-01 -	7.500E-01	0	1	0.00	3.70	2.284E-02	2.284E-02
7.500E-01 -	9.167E-01	0	1	0.00	3.70	1.238E-01	1.238E-01
9.167E-01 -	1.083E+00	0	1	0.00	3.70	4.942E-01	4.942E-01
1.083E+00 -	1.250E+00	0	1	0.00	3.70	1.454E+00	1.454E+00
1.250E+00 -	1.417E+00	1	2	3.70	7.41	3.154E+00	1.471E+00
1.417E+00 -	1.583E+00	1	3	3.70	11.11	5.043E+00	3.241E+00
1.583E+00 -	1.750E+00	14	17	51.85	62.96	5.945E+00	1.091E+01
1.750E+00 -	1.917E+00	9	26	33.33	96.30	5.168E+00	2.842E+00
1.917E+00 -	2.083E+00	1	27	3.70	100.00	5.593E+00	3.771E+00
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.700E+01	3.010E+03

HISTOGRAM FOR VARIABLE 25 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 2.154E+00 XXXX
 3.162E+00
 4.642E+00
 6.813E+00
 1.000E+01
 1.468E+01
 2.154E+01 XXXX
 3.162E+01 XXXX
 4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.000E+02 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+00
MAXIMUM ANTILOG = 9.80000E+01
GEOMETRIC MEAN = 4.71374E+01
GEOMETRIC DEVIATION = 1.98618E+00
VARIANCE OF LOGS = 8.88151E-02

PERCENT TABLE FOR VARIABLE 25 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 4.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.170834E+01	0.510900E+02
75.00	0.181019E+01	0.645934E+02
90.00	0.188519E+01	0.767695E+02
95.00	0.191019E+01	0.813183E+02
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0030 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 26 (AA-AG-P)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
		N	0	0	0.00	0.00		
		L	0	0	0.00	0.00		
		T	0	0	0.00	0.00		
-1.584E+00	-	-1.417E+00	1	1	3.70	3.70	2.435E-01	2.350E+00
-1.417E+00	-	-1.251E+00	0	1	0.00	3.70	1.876E+00	1.876E+00
-1.251E+00	-	-1.084E+00	6	7	22.22	25.93	6.392E+00	2.398E-02
-1.084E+00	-	-9.173E-01	13	20	48.15	74.07	9.687E+00	1.133E+00
-9.173E-01	-	-7.507E-01	5	25	18.52	92.59	6.544E+00	3.644E-01
-7.507E-01	-	-5.840E-01	1	26	3.70	96.30	1.967E+00	4.752E-01
-5.840E-01	-	-4.173E-01	1	27	3.70	100.00	2.771E-01	1.886E+00
		G	0	27	0.00	100.00		
		H	0	27				
		B	0	27				
TOTALS LESS H AND B			27				2.699E+01	8.108E+00

HISTOGRAM FOR VARIABLE 26 (AA-AG-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E-02 XXXX
4.634E-02
6.802E-02 XXXXXXXXXXXXXXXXXXXXX
9.985E-02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E-01 XXXXXXXXXXXXXXXXXX
2.151E-01 XXXX
3.157E-01 XXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.50000E-02
MAXIMUM ANTILOG = 3.10000E-01
GEOMETRIC MEAN = 1.00408E-01
GEOMETRIC DEVIATION = 1.50944E+00
VARIANCE OF LOGS = 3.19747E-02

PERCENT TABLE FOR VARIABLE 26 (AA-AG-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.100067E+01	0.998469E-01
75.00	-0.908799E+00	0.123311E+00

TABLE 4.--Continued

90.00	-0.773998E+00	0.168268E+00
95.00	-0.642331E+00	0.227860E+00
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 27 (AA-CD-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-1.750E+00	-1.583E+00	2	2	7.41	7.41	2.009E-01	1.611E+01
-1.583E+00	-1.417E+00	0	2	0.00	7.41	4.292E-01	4.292E-01
-1.417E+00	-1.250E+00	0	2	0.00	7.41	8.172E-01	8.172E-01
-1.250E+00	-1.083E+00	1	3	3.70	11.11	1.387E+00	1.080E-01
-1.083E+00	-9.167E-01	1	4	3.70	14.81	2.099E+00	5.753E-01
-9.167E-01	-7.500E-01	1	5	3.70	18.52	2.831E+00	1.184E+00
-7.500E-01	-5.833E-01	4	9	14.81	33.33	3.404E+00	1.043E-01
-5.833E-01	-4.167E-01	5	14	18.52	51.85	3.649E+00	5.002E-01
-4.167E-01	-2.500E-01	5	19	18.52	70.37	3.487E+00	6.566E-01
-2.500E-01	-8.333E-02	4	23	14.81	85.19	2.970E+00	3.570E-01
-8.333E-02	8.334E-02	2	25	7.41	92.59	2.256E+00	2.895E-02
8.334E-02	2.500E-01	0	25	0.00	92.59	1.527E+00	1.527E+00
2.500E-01	4.167E-01	0	25	0.00	92.59	9.214E-01	9.214E-01
4.167E-01	5.833E-01	2	27	7.41	100.00	8.922E-01	1.376E+00
G		0	27	0.00	100.00		
H		0	27				
B		0	27				
TOTALS LESS H AND B		27				2.687E+01	2.469E+01

HISTOGRAM FOR VARIABLE 27 (AA-CD-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 2.154E-02 XXXXXXX
 3.162E-02
 4.642E-02
 6.813E-02 XXXX
 1.000E-01 XXXX
 1.468E-01 XXXX
 2.154E-01 XXXXXXXXXXXXXX
 3.162E-01 XXXXXXXXXXXXXXXXXX
 4.642E-01 XXXXXXXXXXXXXXXXXX
 6.813E-01 XXXXXXXXXXXXXX
 1.000E+00 XXXXXXX
 1.468E+00
 2.154E+00
 3.162E+00 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.50000E-02
MAXIMUM ANTILOG      =  3.00000E+00
GEOMETRIC MEAN       =  3.29165E-01
GEOMETRIC DEVIATION  =  3.08536E+00
```

TABLE 4.--Continued

VARIANCE OF LOGS = 2.39420E-01

PERCENT TABLE FOR VARIABLE 27 (AA-CD-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.433331E+00	0.368697E+00
75.00	-0.197914E+00	0.633996E+00
90.00	0.250035E-01	0.105926E+01
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 28 (AA-BI-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-4.170E-01 - -2.503E-01	18	18	66.67	66.67	5.776E+00	2.587E+01
-2.503E-01 - -8.367E-02	0	18	0.00	66.67	7.737E+00	7.737E+00
-8.367E-02 - 8.300E-02	5	23	18.52	85.19	6.181E+00	2.255E-01
8.300E-02 - 2.497E-01	0	23	0.00	85.19	2.944E+00	2.944E+00
2.497E-01 - 4.163E-01	4	27	14.81	100.00	9.913E-01	9.131E+00
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.363E+01	4.591E+01

HISTOGRAM FOR VARIABLE 28 (AA-BI-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E-01
9.992E-01 XXXXXXXXXXXXXXXXXXX
1.467E+00
2.153E+00 XXXXXXXXXXXXXXX
```

(50)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 2.00000E+00
GEOMETRIC MEAN = 6.98038E-01
GEOMETRIC DEVIATION = 1.68525E+00
VARIANCE OF LOGS = 5.13766E-02

PERCENT TABLE FOR VARIABLE 28 (AA-BI-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100000E+36	0.100000E+36
75.00	-0.100333E+00	0.793720E+00
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 4.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 29 (AA-SB-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-4.170E-01 - -2.503E-01	20	20	74.07	74.07	8.168E+00	1.714E+01
-2.503E-01 - -8.367E-02	0	20	0.00	74.07	1.019E+01	1.019E+01
-8.367E-02 - 8.300E-02	6	26	22.22	96.30	4.877E+00	2.585E-01
8.300E-02 - 2.497E-01	0	26	0.00	96.30	8.903E-01	8.903E-01
2.497E-01 - 4.163E-01	1	27	3.70	100.00	6.282E-02	1.398E+01
G	0	27	0.00	100.00		
H	0	27				
B	0	27				
TOTALS LESS H AND B	27				2.419E+01	4.246E+01

HISTOGRAM FOR VARIABLE 29 (AA-SB-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.308E-01
9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXX
1.467E+00
2.153E+00 XXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E-01
MAXIMUM ANTILOG      =  2.00000E+00
GEOMETRIC MEAN       =  6.13994E-01
GEOMETRIC DEVIATION  =  1.45569E+00
VARIANCE OF LOGS     =  2.65919E-02
```

PERCENT TABLE FOR VARIABLE 29 (AA-SB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100000E+36	0.100000E+36
75.00	-0.236444E+00	0.580171E+00
90.00	-0.114436E-01	0.973994E+00
95.00	0.635565E-01	0.115759E+01
99.00	0.100000E+36	0.100000E+36

TABLE 5.--Analytical Values of Soil Samples

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-B	S-BA	S-BE
TEM0211S	42 42 18	109 10 56	3.0	1.0	1.5	.5	500	50	300	1.5
TEM0214S	42 42 40	109 11 6	.5	.2	1.5	.3	300	20	200	2.0
TEM0220S	42 43 8	109 11 30	2.0	.7	1.0	.5	700	50	300	2.0
TEM0222S	42 43 9	109 11 35	3.0	1.0	1.5	.5	500	50	500	1.5
TEM0223S	42 43 15	109 11 55	2.0	.7	.7	.3	500	50	700	1.5
TEM0226S	42 43 29	109 12 7	3.0	1.0	1.5	.5	500	30	500	1.5
TEM0228S	42 43 33	109 11 58	3.0	.7	1.5	.5	500	30	500	1.5
TEM0245S	42 42 16	109 10 44	3.0	1.0	1.0	.5	700	70	700	1.5
TEM0246S	42 42 26	109 10 36	3.0	1.0	1.0	.3	500	30	500	2.0
TEM0249S	42 42 54	109 10 32	1.5	.5	.7	.3	300	30	500	2.0
TEM0251S	42 43 14	109 10 45	2.0	.7	.7	.3	300	30	500	2.0
TEM0253S	42 43 22	109 10 51	2.0	1.0	1.0	.5	500	50	500	1.5
TEM0255S	42 43 40	109 10 59	2.0	.7	.7	.3	300	70	500	1.5
TEM0257S	42 43 53	109 11 8	3.0	1.0	.7	.3	700	70	500	2.0
TEM0258S	42 43 54	109 11 28	2.0	.7	1.0	.5	300	50	300	1.5
TEM0274S	42 41 49	109 11 55	3.0	1.0	1.5	.5	700	50	700	2.0
TEM0276S	42 41 44	109 11 43	5.0	1.5	2.0	.7	500	15	500	1.5
TEM0278S	42 43 49	109 11 57	7.0	1.5	2.0	.7	700	20	700	2.0
TEM0280S	42 43 54	109 12 5	5.0	1.0	1.5	.7	500	30	300	2.0
TEM0283S	42 43 44	109 11 52	7.0	1.5	2.0	1.0	1,000	30	1,000	<1.0
TEM0285S	42 43 45	109 11 48	7.0	1.5	2.0	.7	700	30	700	1.5
TEM0290S	42 42 19	109 11 48	3.0	1.0	.7	.5	500	50	1,000	2.0
TEM0307S	42 43 11	109 11 55	3.0	1.0	1.5	.5	700	50	1,000	2.0
TEM0310S	42 43 18	109 12 4	2.0	1.0	1.5	.5	700	70	700	1.5
TEM0312S	42 43 21	109 12 15	5.0	1.0	1.0	.5	700	70	1,000	2.0
TEM0314S	42 43 34	109 12 22	3.0	.7	.7	.5	500	70	500	1.5
TEM0316S	42 43 44	109 12 13	3.0	.7	1.0	.5	700	70	700	2.0
TEM0318S	42 43 41	109 12 28	3.0	.7	1.5	.5	500	50	700	2.0
TEM0321S	42 43 33	109 12 36	2.0	.5	.7	.5	300	50	300	2.0
TEM0323S	42 43 15	109 12 22	2.0	.7	1.0	.3	700	50	300	2.0

TABLE 5.--Continued

Sample	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB	S-SC	S-SR	S-V
TEM0211S	10	20	20	70	N	20	50	7	300	50
TEM0214S	N	15	10	50	N	5	30	5	200	30
TEM0220S	10	30	15	50	N	15	30	7	200	70
TEM0222S	10	70	20	50	7	20	50	10	200	70
TEM0223S	7	70	20	50	N	15	50	7	200	50
TEM0226S	10	30	15	50	N	20	30	10	300	70
TEM0228S	10	20	30	100	N	20	70	10	200	70
TEM0245S	10	70	30	100	N	30	70	10	300	70
TEM0246S	10	50	20	100	N	20	70	10	200	70
TEM0249S	7	20	15	50	N	15	30	7	200	70
TEM0251S	7	50	20	50	N	15	30	7	200	70
TEM0253S	10	30	30	50	N	30	150	7	300	70
TEM0255S	7	50	20	70	N	20	30	7	200	70
TEM0257S	10	30	20	50	N	20	50	7	200	70
TEM0258S	7	50	15	70	N	15	50	7	300	70
TEM0274S	7	20	30	50	N	10	30	7	200	70
TEM0276S	10	20	20	100	N	20	30	7	200	100
TEM0278S	15	20	50	100	N	30	50	10	300	100
TEM0280S	10	15	20	150	N	20	30	10	300	70
TEM0283S	10	20	50	100	N	20	50	10	100	100
TEM0285S	10	15	30	150	N	20	50	10	300	100
TEM0290S	10	100	20	70	N	20	70	7	200	70
TEM0307S	10	70	30	50	20	20	50	10	200	70
TEM0310S	10	30	20	70	N	20	50	10	300	70
TEM0312S	10	70	30	100	N	30	50	10	300	100
TEM0314S	10	50	20	70	N	20	30	7	200	70
TEM0316S	10	30	20	100	N	20	50	10	300	70
TEM0318S	10	50	20	100	N	15	30	10	300	70
TEM0321S	7	20	20	150	N	15	30	7	200	70
TEM0323S	7	20	20	70	N	15	50	7	200	70

TABLE 5.--Continued

Sample	S-Y	S-ZR	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P	AA-SB-P
TEM0211S	20	300	16	28	56	.07	.23	N	N
TEM0214S	15	100	17	38	78	.13	1.00	1	N
TEM0220S	20	200	14	21	83	.08	.56	N	N
TEM0222S	30	300	10	17	34	.06	.30	N	N
TEM0223S	30	300	4	6	20	<.05	<.05	N	N
TEM0226S	30	300	7	6	18	<.05	N	N	N
TEM0228S	30	300	37	100	75	.29	2.00	N	1
TEM0245S	30	300	22	54	59	.13	.66	N	N
TEM0246S	30	300	8	14	30	.05	.25	N	N
TEM0249S	15	200	10	20	44	.15	.48	N	N
TEM0251S	20	300	11	29	44	.11	.37	N	1
TEM0253S	20	300	28	110	60	.28	.71	1	1
TEM0255S	20	300	13	27	53	.09	.42	N	1
TEM0257S	20	300	17	34	63	.13	.61	N	1
TEM0258S	20	300	9	32	45	.05	.18	N	1
TEM0274S	20	500	14	19	42	.08	.22	N	N
TEM0276S	50	300	9	19	44	.06	.17	N	N
TEM0278S	50	300	19	24	60	.09	.27	N	N
TEM0280S	50	300	13	19	46	.11	.16	N	N
TEM0283S	20	300	18	23	57	.10	.18	1	N
TEM0285S	30	500	17	28	55	.07	.28	N	N
TEM0290S	20	300	12	28	35	.14	.30	N	N
TEM0307S	30	500	14	22	48	.08	.50	N	N
TEM0310S	30	300	19	47	61	.16	.83	N	N
TEM0312S	30	300	15	44	45	.14	.54	N	N
TEM0314S	20	150	5	6	22	<.05	.13	N	N
TEM0316S	30	300	16	32	70	.11	.62	N	N
TEM0318S	30	500	6	6	28	.05	.16	N	N
TEM0321S	20	200	20	20	53	.12	.39	N	N
TEM0323S	20	300	7	16	33	<.05	.33	N	N

TABLE 6.--Graphical Analyses of Soil Samples

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

TITLE	INPUT ID	N	M	***** OPTIONS ****
bridger soil	-bridger -	30	26	1 0 0 0 2 1 0 0 0 0

NUMBER OF SELECTED VARIABLES = 24

SELECTED VARIABLE INDICES

3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22
23	24	25	26						

SELECTED VARIABLE IDENTIFIERS

S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-B	S-BA	S-BE	S-CO	S-CR
S-CU	S-LA	S-NI	S-PB	S-SC	S-SR	S-V	S-Y	S-ZR	AA-CU-P
AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P						

SELECTED ROW PAIRS

1 TO 30

LOWER BOUNDARIES OF THE LOWEST CLASSES

-0.41700	-0.75000	-0.25000	-0.58400	2.41600	1.08300	2.25000	-0.25000	0.25000	1.08300
0.91600	1.58300	0.58300	1.41600	0.58300	1.91600	1.41600	1.08300	1.91600	0.58300
0.75000	1.25000	-1.58400	-1.75000						

CLASS INTERVALS

0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667						

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 3 (S-FE%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-4.170E-01	-2.503E-01	1	1	3.33	3.33	3.045E-02	3.087E+01
-2.503E-01	-8.367E-02	0	1	0.00	3.33	2.622E-01	2.622E-01
-8.367E-02	8.300E-02	0	1	0.00	3.33	1.347E+00	1.347E+00
8.300E-02	2.497E-01	1	2	3.33	6.67	4.136E+00	2.378E+00
2.497E-01	4.163E-01	9	11	30.00	36.67	7.598E+00	2.586E-01
4.163E-01	5.830E-01	13	24	43.33	80.00	8.358E+00	2.579E+00
5.830E-01	7.497E-01	3	27	10.00	90.00	5.505E+00	1.140E+00
7.497E-01	9.163E-01	3	30	10.00	100.00	2.761E+00	2.077E-02
G		0	30	0.00	100.00		
H		0	30				
U		0	30				
TOTALS LESS H AND U		30				3.000E+01	3.885E+01

HISTOGRAM FOR VARIABLE 3 (S-FE%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-01 XXX
6.808E-01
9.992E-01
1.467E+00 XXX
2.153E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+00 XXXXXXXXXX
6.808E+00 XXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 7.00000E+00
GEOMETRIC MEAN = 2.80094E+00
GEOMETRIC DEVIATION = 1.68893E+00
VARIANCE OF LOGS = 5.18073E-02

PERCENT TABLE FOR VARIABLE 3 (S-FE%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE

TABLE 6.--Continued

50.00	0.467617E+00	0.293506E+01
75.00	0.563771E+00	0.366245E+01
90.00	0.749669E+00	0.561913E+01
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-7.500E-01	-5.833E-01	1	1	3.33	3.33	4.814E-02	1.882E+01
-5.833E-01	-4.167E-01	0	1	0.00	3.33	6.643E-01	6.643E-01
-4.167E-01	-2.500E-01	2	3	6.67	10.00	3.871E+00	9.043E-01
-2.500E-01	-8.333E-02	10	13	33.33	43.33	9.605E+00	1.628E-02
-8.333E-02	8.333E-02	13	26	43.33	86.67	1.020E+01	7.692E-01
8.333E-02	2.500E-01	4	30	13.33	100.00	5.611E+00	4.628E-01
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				3.000E+01	2.164E+01

HISTOGRAM FOR VARIABLE 4 (S-MG%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E-01 XXX
3.162E-01
4.642E-01 XXXXXXX
6.813E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+00 XXXXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E-01
MAXIMUM ANTILOG = 1.50000E+00
GEOMETRIC MEAN = 8.48159E-01
GEOMETRIC DEVIATION = 1.49358E+00
VARIANCE OF LOGS = 3.03555E-02

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.576909E-01	0.875607E+00
75.00	0.384631E-01	0.109260E+01
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 5 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-2.500E-01	-8.333E-02	8	8	26.67	26.67	4.913E+00	1.940E+00
-8.333E-02	8.333E-02	8	16	26.67	53.33	1.111E+01	8.684E-01
8.333E-02	2.500E-01	10	26	33.33	86.67	9.566E+00	1.973E-02
2.500E-01	4.167E-01	4	30	13.33	100.00	3.541E+00	5.950E-02
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.912E+01	2.887E+00

HISTOGRAM FOR VARIABLE 5 (S-CA%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E-01 XXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.154E+00 XXXXXXXXXXXXX
```

(09)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E-01
MAXIMUM ANTILOG = 2.00000E+00
GEOMETRIC MEAN = 1.14163E+00
GEOMETRIC DEVIATION = 1.45359E+00
VARIANCE OF LOGS = 2.63873E-02

PERCENT TABLE FOR VARIABLE 5 (S-CA%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.625006E-01	0.115478E+01
75.00	0.191668E+00	0.155477E+01
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-5.840E-01 - -4.173E-01	8	8	26.67	26.67	6.937E+00	1.629E-01
-4.173E-01 - -2.507E-01	17	25	56.67	83.33	1.372E+01	7.862E-01
-2.507E-01 - -8.400E-02	4	29	13.33	96.67	7.310E+00	1.499E+00
-8.400E-02 - 8.267E-02	1	30	3.33	100.00	1.073E+00	4.988E-03
G	0	30	0.00	100.00		
H	0	30				
B	0	30				
TOTALS LESS H AND B	30				2.904E+01	2.453E+00

HISTOGRAM FOR VARIABLE 6 (S-TI%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E-01 XXXXXXXXXXXXXXXXXXXXXXXXX
4.634E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E-01 XXXXXXXXXXXX
9.985E-01 XXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E-01
MAXIMUM ANTILOG = 1.00000E+00
GEOMETRIC MEAN = 4.67012E-01
GEOMETRIC DEVIATION = 1.37053E+00
VARIANCE OF LOGS = 1.87382E-02

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.348705E+00	0.448017E+00
75.00	-0.275176E+00	0.530670E+00
90.00	-0.167333E+00	0.680248E+00
95.00	-0.104832E+00	0.785539E+00
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
2.416E+00 -	2.583E+00	6	6	20.00	20.00	4.691E+00	3.652E-01
2.583E+00 -	2.749E+00	12	18	40.00	60.00	1.230E+01	7.365E-03
2.749E+00 -	2.916E+00	11	29	36.67	96.67	9.863E+00	1.311E-01
2.916E+00 -	3.083E+00	1	30	3.33	100.00	2.588E+00	9.745E-01
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.944E+01	1.478E+00

HISTOGRAM FOR VARIABLE 7 (S-MN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(29)

```
3.157E+02 XXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+02
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 5.22655E+02
GEOMETRIC DEVIATION = 1.39636E+00
VARIANCE OF LOGS = 2.10238E-02

PERCENT TABLE FOR VARIABLE 7 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.270767E+01	0.510114E+03
75.00	0.281752E+01	0.656925E+03
90.00	0.288570E+01	0.768596E+03
95.00	0.290843E+01	0.809889E+03
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 8 (S-B)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.083E+00 -	1.250E+00	1	1	3.33	3.33	5.480E-01	3.729E-01
1.250E+00 -	1.416E+00	2	3	6.67	10.00	3.122E+00	4.030E-01
1.416E+00 -	1.583E+00	8	11	26.67	36.67	8.276E+00	9.216E-03
1.583E+00 -	1.750E+00	12	23	40.00	76.67	1.025E+01	2.982E-01
1.750E+00 -	1.916E+00	7	30	23.33	100.00	7.756E+00	7.377E-02
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.995E+01	1.157E+00

HISTOGRAM FOR VARIABLE 8 (S-B)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
1.467E+01 XXX
2.153E+01 XXXXXXX
3.160E+01 XXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+01 XXXXXXXXXXXXXXXXXXXXXX
```

(63)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+01
MAXIMUM ANTILOG = 7.00000E+01
GEOMETRIC MEAN = 4.26529E+01
GEOMETRIC DEVIATION = 1.53039E+00
VARIANCE OF LOGS = 3.41519E-02

PERCENT TABLE FOR VARIABLE 8 (S-B) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.163856E+01	0.435068E+02
75.00	0.174272E+01	0.552998E+02
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 9 (S-BA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
2.250E+00 -	2.417E+00	1	1	3.33	3.33	1.305E+00	7.148E-02
2.417E+00 -	2.583E+00	6	7	20.00	23.33	5.354E+00	7.799E-02
2.583E+00 -	2.750E+00	11	18	36.67	60.00	1.011E+01	7.829E-02
2.750E+00 -	2.917E+00	8	26	26.67	86.67	8.816E+00	7.551E-02
2.917E+00 -	3.083E+00	4	30	13.33	100.00	4.261E+00	1.600E-02
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.985E+01	3.193E-01

HISTOGRAM FOR VARIABLE 9 (S-BA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(64)

```
2.154E+02 XXX
3.162E+02 XXXXXXXXXXXXXXXXXX
4.642E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+02 XXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+03 XXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+02
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 5.25340E+02
GEOMETRIC DEVIATION = 1.52469E+00
VARIANCE OF LOGS = 3.35560E-02

PERCENT TABLE FOR VARIABLE 9 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.270455E+01	0.506461E+03
75.00	0.284375E+01	0.697832E+03
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

```
00036  GRAPHICAL ANALYSIS  -  U S G S STATPAC (07/04/76)                                  DATE  6/16/81

FREQUENCY TABLE FOR VARIABLE  10 (S-BE    )

     LOG LIMITS            OBS   CUM    PERCENT  PERCENT          THEOR FREQ
  LOWER   -     UPPER      FREQ  FREQ    FREQ    CUM FREQ        (NORMAL DIST)   (THEOR FREQ - OBS FREQ)**2/THEOR FREQ

            N                0     0     0.00      0.00
            L                0     0     0.00      0.00
            T                0     0     0.00      0.00
-2.500E-01 - -8.333E-02      1     1     3.33      3.33           1.526E-02            6.356E+01
-8.333E-02 -  8.333E-02      0     1     0.00      3.33           1.811E+00            1.811E+00
 8.333E-02 -  2.500E-01     13    14    43.33     46.67           1.545E+01            3.871E-01
 2.500E-01 -  4.167E-01     16    30    53.33    100.00           1.273E+01            8.410E-01
            G                0    30     0.00    100.00
            H                0    30
            B                0    30

TOTALS LESS H AND B         30                                    3.000E+01            6.660E+01


HISTOGRAM FOR VARIABLE  10 (S-BE    )
    MIDPOINTS ARE EXPRESSED AS ANTILOGS

     6.813E-01 XXX
     1.000E+00
     1.468E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
     2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG      =  7.00000E-01
MAXIMUM ANTILOG      =  2.00000E+00
GEOMETRIC MEAN       =  1.70487E+00
GEOMETRIC DEVIATION  =  1.24702E+00
VARIANCE OF LOGS     =  9.19199E-03


PERCENT TABLE FOR VARIABLE  10 (S-BE    ) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
    THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

   SELECTED              DATA VALUE     ANTI LOG OF VALUE
  PERCENTILE

    50.00               0.100000E+36        0.100000E+36
    75.00               0.100000E+36        0.100000E+36
    90.00               0.100000E+36        0.100000E+36
    95.00               0.100000E+36        0.100000E+36
    99.00               0.100000E+36        0.100000E+36
```

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 11 (S-CO)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
2.500E-01 - 4.167E-01	1	1	3.33	3.33	7.747E-04	1.289E+03
4.167E-01 - 5.833E-01	0	1	0.00	3.33	8.333E-02	8.333E-02
5.833E-01 - 7.500E-01	0	1	0.00	3.33	1.953E+00	1.953E+00
7.500E-01 - 9.167E-01	8	9	26.67	30.00	1.043E+01	5.654E-01
9.167E-01 - 1.083E+00	20	29	66.67	96.67	1.323E+01	3.463E+00
1.083E+00 - 1.250E+00	1	30	3.33	100.00	4.304E+00	2.537E+00
G	0	30	0.00	100.00		
H	0	30				
B	0	30				
TOTALS LESS H AND B	30				3.000E+01	1.297E+03

HISTOGRAM FOR VARIABLE 11 (S-CO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+00 XXX
3.162E+00
4.642E+00
6.813E+00 XXXXXXXXXXXXXXXXXXXXXXXX
1.000E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.468E+01 XXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.50000E+00
MAXIMUM ANTILOG = 1.50000E+01
GEOMETRIC MEAN = 8.80023E+00
GEOMETRIC DEVIATION = 1.35016E+00
VARIANCE OF LOGS = 1.70005E-02

PERCENT TABLE FOR VARIABLE 11 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.966668E+00	0.926122E+01
75.00	0.102917E+01	0.106947E+02
90.00	0.106667E+01	0.116592E+02
95.00	0.107917E+01	0.119996E+02

TABLE 6.--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 6--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 12 (S-CR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.083E+00 -	1.250E+00	3	3	10.00	10.00	2.981E+00	1.169E-04
1.250E+00 -	1.416E+00	9	12	30.00	40.00	6.078E+00	1.405E+00
1.416E+00 -	1.583E+00	6	18	20.00	60.00	7.951E+00	4.788E-01
1.583E+00 -	1.750E+00	6	24	20.00	80.00	6.676E+00	6.853E-02
1.750E+00 -	1.916E+00	5	29	16.67	96.67	3.598E+00	5.466E-01
1.916E+00 -	2.083E+00	1	30	3.33	100.00	1.562E+00	2.022E-01
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.885E+01	2.701E+00

HISTOGRAM FOR VARIABLE 12 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
(89)
  1.467E+01 XXXXXXXXXX
  2.153E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
  3.160E+01 XXXXXXXXXXXXXXXXXX
  4.638E+01 XXXXXXXXXXXXXXXXXX
  6.803E+01 XXXXXXXXXXXXXXXX
  9.992E+01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 3.29094E+01
GEOMETRIC DEVIATION = 1.76005E+00
VARIANCE OF LOGS = 6.02825E-02

PERCENT TABLE FOR VARIABLE 12 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.149967E+01	0.315986E+02
75.00	0.170800E+01	0.510506E+02
90.00	0.184967E+01	0.707405E+02
95.00	0.189967E+01	0.793722E+02

TABLE 6.--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 6--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 13 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	1	1	3.33	3.33	1.141E+00	1.742E-02
1.083E+00 -	1.249E+00	4	5	13.33	16.67	6.777E+00	1.138E+00
1.249E+00 -	1.416E+00	16	21	53.33	70.00	1.276E+01	8.208E-01
1.416E+00 -	1.583E+00	7	28	23.33	93.33	7.695E+00	6.278E-02
1.583E+00 -	1.749E+00	2	30	6.67	100.00	1.563E+00	1.219E-01
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.994E+01	2.161E+00

HISTOGRAM FOR VARIABLE 13 (S-CU)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(70)

```
9.985E+00 XXX
1.466E+01 XXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXXXXXXXX
4.634E+01 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+01
MAXIMUM ANTILOG	=	5.00000E+01
GEOMETRIC MEAN	=	2.19763E+01
GEOMETRIC DEVIATION	=	1.40656E+00
VARIANCE OF LOGS	=	2.19510E-02

PERCENT TABLE FOR VARIABLE 13 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.135350E+01	0.225684E+02
75.00	0.145172E+01	0.282954E+02
90.00	0.155886E+01	0.362125E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 14 (S-LA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.583E+00 -	1.750E+00	11	11	36.67	36.67	5.670E+00	5.010E+00
1.750E+00 -	1.916E+00	7	18	23.33	60.00	1.151E+01	1.766E+00
1.916E+00 -	2.083E+00	9	27	30.00	90.00	8.842E+00	2.830E-03
2.083E+00 -	2.250E+00	3	30	10.00	100.00	2.855E+00	7.411E-03
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.887E+01	6.787E+00

HISTOGRAM FOR VARIABLE 14 (S-LA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+01 XXXXXXXXXXXXXXXXXXXXX
9.992E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+02 XXXXXXXXXX
```

(71)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 7.43169E+01
GEOMETRIC DEVIATION = 1.45146E+00
VARIANCE OF LOGS = 2.61809E-02

PERCENT TABLE FOR VARIABLE 14 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.184491E+01	0.699689E+02
75.00	0.199967E+01	0.999235E+02
90.00	0.208300E+01	0.121060E+03
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 15 (S-NI)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
5.830E-01 -	7.497E-01	1	1	3.33	3.33	9.919E-03	9.882E+01
7.497E-01 -	9.163E-01	0	1	0.00	3.33	3.157E-01	3.157E-01
9.163E-01 -	1.083E+00	1	2	3.33	6.67	3.210E+00	1.522E+00
1.083E+00 -	1.250E+00	8	10	26.67	33.33	1.055E+01	6.185E-01
1.250E+00 -	1.416E+00	16	26	53.33	86.67	1.139E+01	1.866E+00
1.416E+00 -	1.583E+00	4	30	13.33	100.00	4.519E+00	5.968E-02
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				3.000E+01	1.032E+02

HISTOGRAM FOR VARIABLE 15 (S-NI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
(72)
     4.638E+00 XXX
     6.808E+00
     9.992E+00 XXX
     1.467E+01 XXXXXXXXXXXXXXXXXXXXXXXXXX
     2.153E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
     3.160E+01 XXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E+00
MAXIMUM ANTILOG	=	3.00000E+01
GEOMETRIC MEAN	=	1.82427E+01
GEOMETRIC DEVIATION	=	1.41315E+00
VARIANCE OF LOGS	=	2.25568E-02

PERCENT TABLE FOR VARIABLE 15 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.130175E+01	0.200335E+02
75.00	0.137980E+01	0.239815E+02
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 16 (S-PB)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.416E+00 -	1.583E+00	12	12	40.00	40.00	8.043E+00	1.947E+00
1.583E+00 -	1.749E+00	13	25	43.33	83.33	1.133E+01	2.467E-01
1.749E+00 -	1.916E+00	4	29	13.33	96.67	6.442E+00	9.257E-01
1.916E+00 -	2.083E+00	0	29	0.00	96.67	1.473E+00	1.473E+00
2.083E+00 -	2.249E+00	1	30	3.33	100.00	1.391E-01	5.329E+00
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.743E+01	9.921E+00

HISTOGRAM FOR VARIABLE 16 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXX
9.985E+01
1.466E+02 XXX
```

(74)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 4.42200E+01
GEOMETRIC DEVIATION = 1.47223E+00
VARIANCE OF LOGS = 2.82163E-02

PERCENT TABLE FOR VARIABLE 16 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.162113E+01	0.417954E+02
75.00	0.171728E+01	0.521534E+02
90.00	0.183267E+01	0.680248E+02
95.00	0.189517E+01	0.785539E+02
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 17 (S-SC)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
5.830E-01	-	7.497E-01	1	1	3.33	3.33	9.287E-01	5.468E-03
7.497E-01	-	9.163E-01	15	16	50.00	53.33	1.459E+01	1.138E-02
9.163E-01	-	1.083E+00	14	30	46.67	100.00	1.448E+01	1.568E-02
	G		0	30	0.00	100.00		
	H		0	30				
	B		0	30				
TOTALS LESS H AND B			30				3.000E+01	3.253E-02

HISTOGRAM FOR VARIABLE 17 (S-SC)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(75)

```
4.638E+00 XXX
6.808E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.992E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 8.17551E+00
GEOMETRIC DEVIATION = 1.22259E+00
VARIANCE OF LOGS = 7.61824E-03

PERCENT TABLE FOR VARIABLE 17 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.905223E+00	0.803939E+01
75.00	0.100000E+36	0.100000E+36
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 18 (S-SR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
1.916E+00 - 2.083E+00	1	1	3.33	3.33	1.723E-01	3.975E+00
2.083E+00 - 2.249E+00	0	1	0.00	3.33	4.474E+00	4.474E+00
2.249E+00 - 2.416E+00	17	18	56.67	60.00	1.604E+01	5.768E-02
2.416E+00 - 2.583E+00	12	30	40.00	100.00	9.315E+00	7.739E-01
G	0	30	0.00	100.00		
H	0	30				
B	0	30				
TOTALS LESS H AND B	30				3.000E+01	9.280E+00

HISTOGRAM FOR VARIABLE 18 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+01 XXX
1.466E+02
2.151E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 3.00000E+02
GEOMETRIC MEAN = 2.29843E+02
GEOMETRIC DEVIATION = 1.28934E+00
VARIANCE OF LOGS = 1.21811E-02

PERCENT TABLE FOR VARIABLE 18 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.235718E+01	0.227603E+03
75.00	0.100000E+36	0.100000E+36
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 19 (S-V)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
1.416E+00 - 1.583E+00	1	1	3.33	3.33	1.289E-01	5.890E+00
1.583E+00 - 1.749E+00	2	3	6.67	10.00	4.756E+00	1.597E+00
1.749E+00 - 1.916E+00	22	25	73.33	83.33	1.750E+01	1.158E+00
1.916E+00 - 2.083E+00	5	30	16.67	100.00	7.617E+00	8.992E-01
G	0	30	0.00	100.00		
H	0	30				
B	0	30				
TOTALS LESS H AND B	30				3.000E+01	9.545E+00

HISTOGRAM FOR VARIABLE 19 (S-V)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+01 XXX
4.634E+01 XXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 7.06167E+01
GEOMETRIC DEVIATION = 1.26273E+00
VARIANCE OF LOGS = 1.02639E-02

PERCENT TABLE FOR VARIABLE 19 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.184024E+01	0.692219E+02
75.00	0.189706E+01	0.788972E+02
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 20 (S-Y)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.083E+00 -	1.250E+00	2	2	6.67	6.67	3.763E+00	8.259E-01
1.250E+00 -	1.416E+00	13	15	43.33	50.00	1.205E+01	7.476E-02
1.416E+00 -	1.583E+00	12	27	40.00	90.00	1.089E+01	1.136E-01
1.583E+00 -	1.750E+00	3	30	10.00	100.00	2.966E+00	3.794E-04
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.967E+01	1.015E+00

HISTOGRAM FOR VARIABLE 20 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
1.467E+01 XXXXXXX
2.153E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.160E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+01 XXXXXXXXXX
```

(78)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E+01
MAXIMUM ANTILOG = 5.00000E+01
GEOMETRIC MEAN = 2.52890E+01
GEOMETRIC DEVIATION = 1.37978E+00
VARIANCE OF LOGS = 1.95472E-02

PERCENT TABLE FOR VARIABLE 20 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.141633E+01	0.260816E+02
75.00	0.152050E+01	0.331513E+02
90.00	0.158300E+01	0.382826E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 21 (S-ZR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
1.916E+00 - 2.083E+00	1	1	3.33	3.33	1.221E-01	6.313E+00
2.083E+00 - 2.249E+00	1	2	3.33	6.67	1.944E+00	4.585E-01
2.249E+00 - 2.416E+00	3	5	10.00	16.67	9.084E+00	4.075E+00
2.416E+00 - 2.583E+00	21	26	70.00	86.67	1.274E+01	5.350E+00
2.583E+00 - 2.749E+00	4	30	13.33	100.00	6.104E+00	7.252E-01
G	0	30	0.00	100.00		
H	0	30				
B	0	30				
TOTALS LESS H AND B	30				3.000E+01	1.692E+01

HISTOGRAM FOR VARIABLE 21 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+01 XXX
1.466E+02 XXX
2.151E+02 XXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXX
```

(79)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 5.00000E+02
GEOMETRIC MEAN = 2.90505E+02
GEOMETRIC DEVIATION = 1.39352E+00
VARIANCE OF LOGS = 2.07688E-02

PERCENT TABLE FOR VARIABLE 21 (S-ZR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.249537E+01	0.312872E+03
75.00	0.255489E+01	0.358831E+03
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 22 (AA-CU-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
5.830E-01 -	7.497E-01	2	2	6.67	6.67	1.286E+00	3.968E-01
7.497E-01 -	9.163E-01	4	6	13.33	20.00	4.269E+00	1.693E-02
9.163E-01 -	1.083E+00	6	12	20.00	40.00	8.053E+00	5.235E-01
1.083E+00 -	1.250E+00	11	23	36.67	76.67	8.642E+00	6.436E-01
1.250E+00 -	1.416E+00	5	28	16.67	93.33	5.275E+00	1.434E-02
1.416E+00 -	1.583E+00	2	30	6.67	100.00	2.233E+00	2.439E-02
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.976E+01	1.620E+00

HISTOGRAM FOR VARIABLE 22 (AA-CU-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(80)

```
4.638E+00 XXXXXXX
6.808E+00 XXXXXXXXXXXX
9.992E+00 XXXXXXXXXXXXXXXXXXX
1.467E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.153E+01 XXXXXXXXXXXXXXXX
3.160E+01 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 4.00000E+00
MAXIMUM ANTILOG = 3.70000E+01
GEOMETRIC MEAN = 1.27009E+01
GEOMETRIC DEVIATION = 1.64624E+00
VARIANCE OF LOGS = 4.68697E-02

PERCENT TABLE FOR VARIABLE 22 (AA-CU-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.112846E+01	0.134417E+02
75.00	0.124209E+01	0.174619E+02
90.00	0.138300E+01	0.241547E+02
95.00	0.100000E+36	0.100000E+36

TABLE 6--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 23 (AA-PB-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
7.500E-01 -	9.167E-01	4	4	13.33	13.33	1.518E+00	4.057E+00
9.167E-01 -	1.083E+00	0	4	0.00	13.33	3.224E+00	3.224E+00
1.083E+00 -	1.250E+00	3	7	10.00	23.33	5.178E+00	9.162E-01
1.250E+00 -	1.417E+00	9	16	30.00	53.33	6.290E+00	1.167E+00
1.417E+00 -	1.583E+00	9	25	30.00	83.33	5.780E+00	1.794E+00
1.583E+00 -	1.750E+00	3	28	10.00	93.33	4.017E+00	2.574E-01
1.750E+00 -	1.917E+00	0	28	0.00	93.33	2.112E+00	2.112E+00
1.917E+00 -	2.083E+00	2	30	6.67	100.00	1.160E+00	6.078E-01
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.928E+01	1.414E+01

HISTOGRAM FOR VARIABLE 23 (AA-PB-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+00 XXXXXXXXXXXX
1.000E+01
1.468E+01 XXXXXXXXXX
2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXX
6.813E+01
1.000E+02 XXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  6.00000E+00
MAXIMUM ANTILOG      =  1.10000E+02
GEOMETRIC MEAN       =  2.32351E+01
GEOMETRIC DEVIATION  =  2.04969E+00
VARIANCE OF LOGS     =  9.71492E-02
```

PERCENT TABLE FOR VARIABLE 23 (AA-PB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE

TABLE 6.--Continued

50.00	0.139815E+01	0.250121E+02
75.00	0.153704E+01	0.344381E+02
90.00	0.169445E+01	0.494819E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 24 (AA-ZN-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.250E+00 -	1.417E+00	3	3	10.00	10.00	2.065E+00	4.238E-01
1.417E+00 -	1.583E+00	5	8	16.67	26.67	7.554E+00	8.633E-01
1.583E+00 -	1.750E+00	12	20	40.00	66.67	1.130E+01	4.370E-02
1.750E+00 -	1.917E+00	9	29	30.00	96.67	6.927E+00	6.206E-01
1.917E+00 -	2.083E+00	1	30	3.33	100.00	1.918E+00	4.397E-01
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.976E+01	2.391E+00

HISTOGRAM FOR VARIABLE 24 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+01 XXXXXXXXXX
3.162E+01 XXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+02 XXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.80000E+01
MAXIMUM ANTILOG	=	8.30000E+01
GEOMETRIC MEAN	=	4.55590E+01
GEOMETRIC DEVIATION	=	1.47749E+00
VARIANCE OF LOGS	=	2.87390E-02

PERCENT TABLE FOR VARIABLE 24 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.168056E+01	0.479244E+02
75.00	0.179630E+01	0.625601E+02
90.00	0.187963E+01	0.757933E+02
95.00	0.190741E+01	0.807995E+02
99.00	0.100000E+36	0.100000E+36

TABLE 6--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 25 (AA-AG-P)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
		N	0	0	0.00	0.00		
		L	0	0	0.00	0.00		
		T	0	0	0.00	0.00		
-1.584E+00	-	-1.417E+00	4	4	13.33	13.33	1.678E+00	3.212E+00
-1.417E+00	-	-1.251E+00	3	7	10.00	23.33	4.340E+00	4.137E-01
-1.251E+00	-	-1.084E+00	7	14	23.33	46.67	7.223E+00	6.869E-03
-1.084E+00	-	-9.173E-01	7	21	23.33	70.00	7.739E+00	7.063E-02
-9.173E-01	-	-7.507E-01	7	28	23.33	93.33	5.340E+00	5.164E-01
-7.507E-01	-	-5.840E-01	0	28	0.00	93.33	2.371E+00	2.371E+00
-5.840E-01	-	-4.173E-01	2	30	6.67	100.00	8.176E-01	1.710E+00
		G	0	30	0.00	100.00		
		H	0	30				
		B	0	30				
TOTALS LESS H AND B			30				2.951E+01	8.301E+00

HISTOGRAM FOR VARIABLE 25 (AA-AG-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E-02 XXXXXXXXXXXX
4.634E-02 XXXXXXXXXX
6.802E-02 XXXXXXXXXXXXXXXXXXXXXXX
9.985E-02 XXXXXXXXXXXXXXXXXXXXXXX
1.466E-01 XXXXXXXXXXXXXXXXXXXXXXX
2.151E-01
3.157E-01 XXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.50000E-02
MAXIMUM ANTILOG = 2.90000E-01
GEOMETRIC MEAN = 8.75296E-02
GEOMETRIC DEVIATION = 1.76376E+00
VARIANCE OF LOGS = 6.07330E-02

PERCENT TABLE FOR VARIABLE 25 (AA-AG-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.106019E+01	0.670584E-01
75.00	-0.881618E+00	0.131336E+00

TABLE 6.--Continued

90.00	-0.774475E+00	0.168084E+00
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 6.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 26 (AA-CD-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-1.750E+00	- -1.583E+00	1	1	3.33	3.33	6.391E-02	1.371E+01
-1.583E+00	- -1.417E+00	1	2	3.33	6.67	2.057E-01	3.068E+00
-1.417E+00	- -1.250E+00	0	2	0.00	6.67	5.522E-01	5.522E-01
-1.250E+00	- -1.083E+00	0	2	0.00	6.67	1.237E+00	1.237E+00
-1.083E+00	- -9.167E-01	0	2	0.00	6.67	2.311E+00	2.311E+00
-9.167E-01	- -7.500E-01	4	6	13.33	20.00	3.604E+00	4.346E-02
-7.500E-01	- -5.833E-01	5	11	16.67	36.67	4.690E+00	2.055E-02
-5.833E-01	- -4.167E-01	6	17	20.00	56.67	5.091E+00	1.622E-01
-4.167E-01	- -2.500E-01	6	23	20.00	76.67	4.612E+00	4.176E-01
-2.500E-01	- -8.333E-02	4	27	13.33	90.00	3.486E+00	7.567E-02
-8.333E-02	- 8.334E-02	2	29	6.67	96.67	2.199E+00	1.799E-02
8.334E-02	- 2.500E-01	0	29	0.00	96.67	1.157E+00	1.157E+00
2.500E-01	- 4.167E-01	1	30	3.33	100.00	7.694E-01	6.914E-02
G		0	30	0.00	100.00		
H		0	30				
B		0	30				
TOTALS LESS H AND B		30				2.998E+01	2.284E+01

HISTOGRAM FOR VARIABLE 26 (AA-CD-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E-02 XXX
3.162E-02 XXX
4.642E-02
6.813E-02
1.000E-01
1.468E-01 XXXXXXXXXXXX
2.154E-01 XXXXXXXXXXXXXXXX
3.162E-01 XXXXXXXXXXXXXXXXXXX
4.642E-01 XXXXXXXXXXXXXXXXXXX
6.813E-01 XXXXXXXXXXXX
1.000E+00 XXXXXXX
1.468E+00
2.154E+00 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.50000E-02
MAXIMUM ANTILOG = 2.00000E+00
GEOMETRIC MEAN = 5.10706E-01
GEOMETRIC DEVIATION = 2.44755E+00
VARIANCE OF LOGS = 1.51113E-01

TABLE 6.--Continued

PERCENT TABLE FOR VARIABLE 26 (AA-CD-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.472220E+00	0.337117E+00
75.00	-0.263886E+00	0.544646E+00
90.00	-0.833300E-01	0.825411E+00
95.00	0.416702E-01	0.110070E+01
99.00	0.100000E+36	0.100000E+36

Table 7.--Descriptions of Rock Samples

Sample No.	Field Description
TEM200R	Medium-textured quartz monzonite with sparsely disseminated pyrite.
TEM201R	3-5" quartz pegmatite veinlet with sparsely disseminated pyrite.
TEM202R	Fairly coarse granite with sparsely disseminated pyrite.
TEM203R	Medium to fairly coarse granite float with MoS_2 blebs.
TEM204R	1' granite dike with disseminated MoS_2.
TEM205R	Fe-stained granite with MoS_2 blebs and sparsely disseminated sulfides.
TEM206R	1-1/2" Fe-stained quartz veinlet with possible finely disseminated pyrite.
TEM207R	Fe-stained granite with crystalline pyrite.
TEM209R	Granite with sparsely disseminated pyrite and slightly chloritized biotite.
TEM210R	Granite with sparse, finely disseminated pyrite and slightly chloritized biotite.
TEM212R	Granite with rusty zones containing pyrite or marcasite.
TEM213R	Fairly coarse granite.
TEM215R	Very felsic granite float containing 1" mafic veinlet.
TEM216R	7' dike of fairly fine quartz monzonite.
TEM217R	Fairly coarse biotite-rich granite.
TEM218R	Fairly coarse, somewhat chloritized granite from minor shear zone.
TEM219R	Medium-textured granite.
TEM221R	1/2" quartz pegmatite vein--rusty with small blebs and sparse disseminations of MoS_2.
TEM224R	Biotite-rich granite with moderate Fe-staining and augen gneiss texture.
TEM225R	Fairly fine granite with chloritized biotite and epidote fracture fillings.
TEM227R	Fairly coarse, moderately Fe-stained granite.

Table 7.--Descriptions of Rock Samples--Continued

Sample No.	Field Description
TEM229R	1-2' fairly fine-grained diabase dike.
TEM230R	Fairly coarse granodiorite float with MoS_2 bleb.
TEM231R	Somewhat Fe-stained granite float with possible fine, sparsely disseminated pyrite.
TEM233R	Granite contact with chlorite-epidote schist from float.
TEM234R	Highly Fe-stained granite float.
TEM235R	Fairly coarse quartz monzonite float with disseminated pyrite and/or marcasite.
TEM236R	Fairly coarse diorite float containing sulfides.
TEM237R	Highly Fe-stained sulfide-rich granite float.
TEM241R	Highly Fe-stained, sulfide-rich gossan.
TEM242R	Quartz pegmatite vein.
TEM243R	Granite with slightly chloritized biotite.
TEM244R	Granodiorite float with weathered disseminated sulfides.
TEM247R	Quartz monzonite float containing MoS_2 and disseminated pyrite.
TEM250R	Unmineralized, slightly gneissic granite.
TEM252R	Moderately Fe-stained granite with possible sparse disseminated sulfides.
TEM254R	Fairly fine granite with disseminated pyrite.
TEM256R	Fairly fine unmineralized granite.
TEM269R	Unmineralized granodiorite.
TEM270R	Granodiorite with disseminated magnetite.
TEM271R	1/2" magnetite vein.
TEM272R	Granite with possible fine sulfides.
TEM273R	Fe-stained quartz pegmatite.
TEM275R	Fe-stained biotite-rich with hematite.
TEM277R	Magnetite(?) contacting biotite-rich granite from float.

Table 7.--Descriptions of Rock Samples--Continued

Sample No.	Field Description
TEM279R	Fairly coarse, unmineralized granite.
TEM281R	1' pegmatite vein with hematite.
TEM282R	Contact between fine and coarse granite from float.
TEM284R	Granite float.
TEM291R	Fe-stained granodiorite with chlorite, epidote, and disseminated sulfides.
TEM292R	Fe-stained, sulfide-rich granite float.
TEM294R	Fe-stained, sulfide-rich granite.
TEM295R	Chloritized granite with epidote fracture fillings.
TEM296R	Fe-stained, sulfide-rich granite float.
TEM302R	Quartz monzonite with sparse disseminated pyrite.
TEM304R	15 X 20' quartz pegmatite inclusion with possible sparse fine MoS_2.
TEM305R	Highly Fe-stained quartz monzonite float with pyrite and magnetite?
TEM306R	Aplite float with sulfides.
TEM308R	Highly Fe-stained granitic gossan with scattered blebs of MoS_2.
TEM309R	Granodiorite with sparse, finely disseminated pyrite.
TEM311R	Fairly fine to coarse granite with MnO_2 coating and disseminated pyrite.
TEM313R	Fairly coarse, unmineralized granite float.
TEM315R	5" quartz pegmatite vein with hematite.
TEM317R	Slightly chloritized, fairly coarse granite.
TEM319R	Rusty red aplite contacting pegmatite.
TEM320R	Rusty red pegmatite contacting aplite.
TEM322R	Lightly Fe-stained granite.
TEM324R	Fairly coarse granite with minor hematite staining.
TEM325R	Slightly Fe-stained granite.

Table 7.--Descriptions of Rock Samples--Continued

Sample No.	Field Description
TEM329R	3-5" quartz pegmatite float.
TEM331R	1-5" quartz pegmatite inclusion with magnetite?
TEM333R	Fe-stained, sulfide-rich granite float.
TEM334R	Fine-textured quartz monzonite float containing pyrite zones and a MoS_2 bleb.
TEM336R	4' quartz monzonite dike.
TEM338R	Rusty sulfide zone in quartz monzonite dike.
TEM339R	8-10" quartz monzonite dike with sparsely disseminated pyrite.
TEM340R	Fe-stained, sulfide-rich granite float.
TEM342R	Fairly coarse, unmineralized granodiorite.
TEM343R	MoS_2-bearing pegmatite inclusion in granodiorite float.
TEM001R	Altered granite containing marcasite.
TEM002R	MoS_2-bearing granite.
TEM005R	Fine-textured quartz monzonite.
TEM006R	Coarse-grained granite.
TEM008R	Coarse-grained granite.
TEM009R	Altered quartz diorite dike.
TEM010R	Coarse-grained granite.
TEM018R	Biotite-rich granite.
TEM021R	Granite float containing MoS_2.
TEM022R	Mafic dike.
TEM004M	MoS_2-bearing granite specimen.
TEM007M	MoS_2-bearing granite specimen.
TEM303M	MoS_2-bearing quartz monzonite specimen with marcasite and pyrite.
TEM335M	MoS_2-bearing fine-grained quartz monzonite specimen from float.
TEM345M	Unmineralized granodiorite specimen from float.

Table 7.--Descriptions of Rock Samples--Continued

Sample No.	Field Description

NOTE: TEM004M, 7M, 303M, 335M, 345M were withheld from quantitative analysis as specimens for mineralogical inspection.

TABLE 8.--Analytical Values of Rock Samples Without Visible MoS_2

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE
TEM0200R	42 43 6	109 11 56	3.00	.70	1.50	.30	300	N	<10	700	2.0
TEM0201R	42 43 10	109 11 48	.70	.30	.10	.05	100	N	N	70	N
TEM0202R	42 43 10	109 11 48	3.00	.30	2.00	.30	300	N	10	300	2.0
TEM0206R	42 43 8	109 11 44	2.00	1.00	.30	.20	300	N	N	150	<1.0
TEM0207R	42 43 5	109 11 48	3.00	.30	.50	.15	150	1.5	N	2,000	1.0
TEM0209R	42 43 0	109 11 17	3.00	.70	.70	.30	150	N	<10	1,500	2.0
TEM0210R	42 42 1	109 10 45	3.00	1.50	1.50	.70	500	N	10	1,500	2.0
TEM0212R	42 42 26	109 11 4	7.00	1.50	2.00	.70	300	<.5	N	1,500	1.5
TEM0213R	42 42 40	109 11 6	3.00	1.00	2.00	.50	300	N	N	1,500	2.0
TEM0215R	42 42 44	109 11 10	15.00	.10	.30	1.00	1,000	N	<10	3,000	N
TEM0216R	42 42 56	109 11 10	2.00	.50	2.00	.30	300	N	N	3,000	1.5
TEM0217R	42 42 56	109 11 10	3.00	1.00	.70	.30	300	N	<10	1,500	2.0
TEM0218R	42 42 59	109 11 14	3.00	1.50	.70	.30	300	N	<10	1,500	1.5
TEM0219R	42 43 8	109 11 30	5.00	1.50	2.00	.50	300	N	10	500	2.0
TEM0224R	42 43 25	109 12 3	1.50	.30	.70	.15	150	N	N	5,000	<1.0
TEM0225R	42 43 29	109 12 7	1.50	.50	.30	.20	150	N	<10	1,000	1.5
TEM0227R	42 43 33	109 11 58	3.00	1.00	1.50	.30	300	N	10	1,500	1.5
TEM0229R	42 43 33	109 11 58	10.00	3.00	3.00	.70	1,000	N	N	700	<1.0
TEM0231R	42 43 0	109 9 53	2.00	.50	1.50	.30	200	N	N	1,500	1.5
TEM0233R	42 42 9	109 9 50	5.00	1.50	3.00	.50	500	N	N	1,000	1.0
TEM0234R	42 42 16	109 10 0	5.00	1.00	.20	.30	200	N	N	200	1.5
TEM0235R	42 42 16	109 10 0	.70	.20	.20	.20	70	N	N	N	1.0
TEM0236R	42 42 17	109 10 7	3.00	1.50	.30	.20	300	N	N	N	<1.0
TEM0237R	42 42 16	109 10 9	3.00	1.00	.30	.30	200	<.5	N	50	1.0
TEM0241R	42 42 13	109 10 23	10.00	2.00	.15	.30	500	<.5	N	<20	1.0
TEM0242R	42 42 13	109 10 23	.20	.02	<.05	.01	<10	N	<10	20	N
TEM0243R	42 42 13	109 10 23	1.50	.30	1.00	.20	300	N	<10	1,000	2.0
TEM0244R	42 42 16	109 10 44	.70	.20	1.00	.07	100	N	N	1,500	1.5
TEM0250R	42 43 14	109 10 45	2.00	.50	2.00	.20	200	N	N	1,500	1.5
TEM0252R	42 43 22	109 10 51	3.00	.70	2.00	.20	300	N	N	1,000	1.5
TEM0254R	42 43 40	109 10 59	1.50	.30	1.00	.20	200	N	N	1,500	1.5
TEM0256R	42 43 53	109 11 8	3.00	1.00	2.00	.30	300	N	<10	300	1.5
TEM0269R	42 42 49	109 10 5	2.00	.50	1.50	.30	300	N	N	700	1.5
TEM0270R	42 43 2	109 10 13	1.50	.30	1.50	.20	300	N	<10	1,500	2.0
TEM0271R	42 43 2	109 10 13	5.00	1.00	1.00	.30	500	N	<10	2,000	1.0
TEM0272R	42 41 49	109 11 55	.50	.02	1.00	.02	30	2.0	<10	2,000	1.5
TEM0273R	42 41 49	109 11 55	.15	.02	.30	.03	10	N	N	2,000	1.0
TEM0275R	42 41 44	109 11 43	3.00	.70	1.00	.30	200	N	10	1,500	2.0
TEM0277R	42 43 50	109 11 54	20.00	.30	.30	1.00	1,500	N	N	150	N
TEM0279R	42 43 54	109 12 5	2.00	.50	1.00	.20	300	N	<10	1,000	1.5

TABLE 8.--Continued

Sample	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SR	S-V
TEMO200R	7	<10	15	300	N	<20	7	30	7	300	70
TEMO201R	5	N	<5	20	N	N	5	10	N	N	15
TEMO202R	20	10	20	700	N	N	5	50	7	500	30
TEMO206R	7	15	<5	20	10	N	30	<10	7	N	30
TEMO207R	7	N	100	<20	15	N	30	70	N	300	15
TEMO209R	7	10	7	20	N	N	7	30	5	300	70
TEMO210R	10	15	7	70	N	N	10	15	5	200	70
TEMO212R	20	20	100	<20	N	<20	70	30	10	700	70
TEMO213R	15	10	15	100	N	<20	10	30	10	300	50
TEMO215R	7	<10	5	<20	N	N	7	30	N	200	500
TEMO216R	10	<10	20	50	N	<20	10	50	7	500	30
TEMO217R	10	<10	7	50	N	<20	15	15	7	200	30
TEMO218R	10	15	15	70	5	<20	20	15	7	200	50
TEMO219R	10	15	20	30	N	<20	15	20	5	500	70
TEMO224R	5	10	10	500	N	N	5	50	5	500	20
TEMO225R	5	10	<5	30	N	N	5	15	N	100	30
TEMO227R	7	10	15	70	5	<20	10	30	7	500	30
TEMO229R	50	200	50	100	N	N	150	30	20	700	150
TEMO231R	7	<10	20	50	5	N	20	30	5	500	30
TEMO233R	20	15	30	30	N	N	15	30	10	1,000	100
TEMO234R	10	10	5	30	<5	<20	7	<10	5	<100	50
TEMO235R	15	10	<5	20	N	N	5	<10	<5	N	10
TEMO236R	10	15	<5	100	N	N	15	10	7	N	50
TEMO237R	20	10	<5	100	N	<20	7	10	5	N	30
TEMO241R	30	15	15	<20	N	<20	15	30	5	N	100
TEMO242R	5	10	<5	20	N	N	<5	<10	N	N	<10
TEMO243R	5	10	<5	150	N	N	5	30	<5	300	20
TEMO244R	5	<10	5	30	N	N	5	30	<5	300	10
TEMO250R	7	<10	<5	20	<5	N	10	30	<5	500	30
TEMO252R	7	<10	20	30	<5	N	15	30	<5	500	30
TEMO254R	7	10	10	20	<5	<20	10	30	N	200	30
TEMO256R	10	10	20	20	<5	<20	15	20	5	300	50
TEMO269R	7	N	7	70	N	<20	10	30	5	300	30
TEMO270R	5	<10	<5	70	N	<20	5	50	5	500	30
TEMO271R	7	<10	<5	1,000	N	N	5	50	7	500	70
TEMO272R	10	N	30	20	<5	N	5	70	N	500	<10
TEMO273R	<5	<10	20	<20	N	N	5	30	N	500	<10
TEMO275R	7	10	15	30	N	N	7	20	5	500	30
TEMO277R	50	150	70	N	N	N	30	N	5	N	500
TEMO279R	5	<10	5	150	<5	<20	5	30	5	500	30

TABLE 8.--Continued

Sample	S-Y	S-ZN	S-ZR	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-SB-P
TEM0200R	30	N	300	4	16	2	<.05	N	N
TEM0201R	N	N	20	N	1	N	N	N	N
TEM0202R	20	N	50	7	15	2	<.05	N	N
TEM0206R	<10	N	70	1	2	11	<.05	N	N
TEM0207R	N	N	150	61	13	3	.27	N	N
TEM0209R	N	N	200	4	20	9	N	N	N
TEM0210R	10	N	300	2	5	1	N	N	N
TEM0212R	30	N	200	53	6	5	.47	N	N
TEM0213R	30	N	70	7	6	3	<.05	N	N
TEM0215R	N	N	500	2	12	7	N	N	N
TEM0216R	20	N	70	8	26	2	<.05	N	N
TEM0217R	20	N	300	5	6	N	<.05	N	N
TEM0218R	30	N	100	2	3	4	N	N	N
TEM0219R	20	N	100	11	4	4	<.05	N	N
TEM0224R	10	N	50	2	5	N	N	N	N
TEM0225R	N	N	100	1	3	N	N	N	N
TEM0227R	20	N	100	3	5	1	N	N	N
TEM0229R	30	N	100	28	4	3	<.05	N	1
TEM0231R	<10	N	100	7	5	N	.07	N	N
TEM0233R	20	N	100	7	13	N	.05	N	N
TEM0234R	10	N	150	1	2	3	<.05	N	N
TEM0235R	10	N	70	N	1	N	<.05	N	N
TEM0236R	15	N	70	N	3	2	<.05	N	N
TEM0237R	20	N	150	1	3	2	<.05	N	N
TEM0241R	20	N	300	3	7	16	.18	<.05	1
TEM0242R	N	N	<10	N	1	N	<.05	N	N
TEM0243R	N	N	50	1	7	2	<.05	N	N
TEM0244R	N	N	150	1	5	1	<.05	N	N
TEM0250R	10	N	100	1	10	7	<.05	N	N
TEM0252R	15	N	100	8	4	4	.05	N	N
TEM0254R	15	N	100	4	4	2	<.05	N	N
TEM0256R	N	N	200	11	2	4	<.05	N	N
TEM0269R	N	N	150	4	10	5	<.05	N	N
TEM0270R	10	N	300	1	14	4	<.05	N	N
TEM0271R	30	N	700	1	30	13	<.05	N	N
TEM0272R	N	N	20	34	60	20	.94	<.05	N
TEM0273R	N	N	<10	20	8	11	<.05	N	N
TEM0275R	15	N	150	4	4	2	<.05	N	N
TEM0277R	10	N	700	18	3	16	.05	N	1
TEM0279R	20	N	100	2	7	3	.06	N	N

TABLE 8.--Continued

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE
TEM0281R	42 43 53	109 12 2	.70	.02	.20	.10	100	N	N	500	3.0
TEM0282R	42 43 44	109 11 52	2.00	.50	1.00	.30	300	N	N	2,000	1.0
TEM0284R	42 43 45	109 11 48	2.00	.50	1.50	.20	300	N	N	1,000	1.5
TEM0291R	42 42 9	109 11 50	7.00	.50	10.00	.30	700	N	N	200	<1.0
TEM0292R	42 41 58	109 11 52	7.00	1.50	.07	.15	300	N	N	<20	<1.0
TEM0294R	42 41 54	109 11 52	5.00	1.50	.50	.50	300	N	<10	20	1.5
TEM0295R	42 42 2	109 11 33	1.50	.70	1.00	.30	300	N	N	5,000	1.0
TEM0296R	42 42 5	109 11 44	5.00	1.50	.30	.30	300	N	N	150	1.5
TEM0302R	42 43 6	109 11 56	2.00	.50	1.00	.30	300	N	N	1,500	1.5
TEM0304R	42 43 10	109 11 48	.30	.07	.07	.05	70	N	N	500	<1.0
TEM0305R	42 43 11	109 11 55	.70	.07	.10	.03	50	<.5	N	1,000	<1.0
TEM0306R	42 43 11	109 11 55	3.00	.20	<.05	.03	50	N	N	500	1.0
TEM0309R	42 43 18	109 12 4	3.00	.10	2.00	.50	500	N	N	500	2.0
TEM0311R	42 43 21	109 12 15	2.00	.70	1.00	.30	500	N	N	1,000	1.5
TEM0313R	42 43 34	109 12 22	2.00	.70	1.50	.30	300	N	N	1,000	1.0
TEM0315R	42 43 44	109 12 13	.50	.10	.30	.07	70	<.5	N	1,000	3.0
TEM0317R	42 43 41	109 12 28	2.00	.70	2.00	.70	300	N	N	1,000	1.5
TEM0319R	42 43 35	109 12 35	1.00	.02	.50	.03	30	N	N	1,000	<1.0
TEM0320R	42 43 35	109 12 35	.30	.02	.07	.02	10	N	N	300	N
TEM0322R	42 43 15	109 12 22	1.00	.30	1.00	.15	150	N	N	1,000	1.0
TEM0324R	42 43 1	109 12 16	3.00	1.00	2.00	.50	300	N	N	1,500	1.0
TEM0325R	42 43 1	109 12 16	3.00	1.00	2.00	.50	500	N	N	1,500	1.0
TEM0329R	42 42 51	109 10 49	.50	.03	.05	.02	15	N	N	150	N
TEM0331R	42 42 42	109 10 53	1.50	.15	1.50	.30	300	<.5	N	3,000	1.5
TEM0333R	42 42 50	109 10 54	1.50	.30	1.50	.15	150	N	N	500	1.5
TEM0336R	42 42 50	109 10 59	.30	.03	.50	.02	150	N	N	1,500	<1.0
TEM0338R	42 42 50	109 10 59	1.50	.05	.30	.20	150	N	N	1,500	1.0
TEM0339R	42 42 58	109 11 1	.20	.10	.30	.03	50	N	N	2,000	1.0
TEM0340R	42 43 1	109 11 6	1.50	.20	1.00	.30	100	<.5	N	2,000	1.5
TEM0342R	42 43 24	109 11 15	3.00	.70	2.00	.50	300	N	<10	1,000	1.5
TEM0001R	42 43 9	109 11 53	3.00	.10	.30	.20	150	N	N	1,500	N
TEM0005R	42 43 9	109 11 53	3.00	.15	.30	.20	150	N	N	2,000	N
TEM0006R	42 43 9	109 11 53	2.00	.50	1.50	.30	300	N	N	1,000	1.5
TEM0008R	42 43 8	109 12 5	3.00	1.00	2.00	.50	700	N	N	500	1.5
TEM0010R	42 43 20	109 12 36	3.00	.70	2.00	.50	300	N	N	1,000	1.5
TEM0018R	42 43 35	109 11 42	2.00	.30	1.50	.20	150	N	N	500	1.5
TEM0022R	42 44 15	109 11 54	10.00	7.00	.50	.50	1,000	N	N	<20	1.0

TABLE 8.--Continued

Sample	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI	S-PB	S-SC	S-SR	S-V
TEM0281R	<5	N	<5	20	N	30	<5	50	<5	150	10
TEM0282R	7	<10	15	100	<5	<20	7	30	5	500	50
TEM0284R	7	N	15	50	N	N	5	30	7	500	30
TEM0291R	10	<10	5	20	N	N	10	30	15	2,000	150
TEM0292R	70	<10	<5	300	N	<20	15	<10	7	N	70
TEM0294R	50	15	<5	50	N	N	15	10	10	100	50
TEM0295R	7	15	<5	20	<5	<20	10	20	5	500	20
TEM0296R	100	15	<5	20	<5	N	10	30	5	N	30
TEM0302R	5	10	10	300	<5	N	5	30	<5	300	30
TEM0304R	<5	15	15	20	70	N	10	15	N	N	<10
TEM0305R	<5	10	30	100	100	N	<5	70	N	200	<10
TEM0306R	<5	10	50	N	70	N	7	20	N	N	20
TEM0309R	7	10	50	30	<5	N	20	30	7	500	50
TEM0311R	7	10	7	150	N	N	7	30	7	300	30
TEM0313R	7	10	10	70	N	N	7	30	5	500	30
TEM0315R	N	<10	5	200	N	<20	<5	70	N	200	<10
TEM0317R	7	15	15	150	N	<20	7	30	<5	500	50
TEM0319R	<5	<10	30	N	N	N	5	50	N	300	10
TEM0320R	<5	<10	10	N	N	N	5	15	N	N	<10
TEM0322R	5	<10	<5	30	N	<20	5	30	N	500	15
TEM0324R	10	10	20	100	N	<20	15	30	7	500	50
TEM0325R	7	20	15	150	N	<20	20	30	10	500	70
TEM0327R	<5	10	20	<20	N	N	5	50	N	N	<10
TEM0331R	5	<10	70	30	N	<20	10	50	5	1,000	30
TEM0333R	<5	10	50	<20	N	N	30	30	<5	300	20
TEM0336R	N	N	<5	N	N	N	<5	30	N	300	<10
TEM0338R	7	<10	7	N	N	N	<5	30	N	300	10
TEM0339R	N	N	<5	200	N	N	<5	30	N	500	<10
TEM0340R	5	10	30	50	N	<20	10	30	N	1,000	20
TEM0342R	7	15	20	50	N	N	10	20	7	300	70
TEM0001R	20	N	200	20	700	N	5	50	N	500	70
TEM0005R	20	<10	200	20	500	N	5	70	N	500	70
TEM0006R	7	10	10	50	N	<20	7	30	7	300	30
TEM0008R	10	30	30	100	<5	<20	20	30	15	300	70
TEM0010R	10	15	20	150	N	<20	15	50	10	500	70
TEM0018R	7	<10	15	20	N	<20	5	30	5	200	30
TEM0022R	30	30	5	20	N	<20	50	10	7	N	100

TABLE 8.--Continued

Sample	S-Y	S-ZN	S-ZR	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-SB-P
TEM0281R	30	N	10	1	8	1	<.05	N	N
TEM0282R	20	N	200	3	7	3	<.05	N	N
TEM0284R	20	N	100	5	7	2	<.05	N	N
TEM0291R	20	N	100	1	19	17	.06	<.05	N
TEM0292R	N	N	150	N	1	2	.05	N	N
TEM0294R	20	N	150	N	3	6	.10	<.05	N
TEM0295R	10	N	300	1	4	N	<.05	<.05	1
TEM0296R	<10	N	100	1	15	N	.20	<.05	1
TEM0302R	<10	N	100	1	7	N	.09	<.05	N
TEM0304R	N	N	<10	7	6	N	<.05	<.05	1
TEM0305R	N	N	50	36	30	2	.21	<.05	N
TEM0306R	N	N	70	54	5	N	.16	<.05	N
TEM0309R	10	N	300	23	6	2	.09	.06	N
TEM0311R	15	N	100	2	8	N	<.05	.09	N
TEM0313R	<10	N	100	3	6	N	<.05	.06	1
TEM0315R	20	N	70	1	34	N	.09	.09	N
TEM0317R	15	N	300	2	11	N	<.05	<.05	N
TEM0319R	N	N	50	20	8	N	<.05	.12	N
TEM0320R	N	N	10	5	4	N	<.05	.05	N
TEM0322R	N	N	70	1	7	N	<.05	.05	N
TEM0324R	30	N	150	1	5	N	<.05	.07	N
TEM0325R	30	N	300	5	10	N	<.05	.07	N
TEM0329R	N	N	10	22	81	N	.09	.07	N
TEM0331R	30	N	10	29	37	12	.20	.36	N
TEM0333R	N	N	150	29	8	N	.07	.11	N
TEM0336R	N	N	15	1	6	N	<.05	<.05	N
TEM0338R	N	N	10	2	7	N	<.05	N	N
TEM0339R	N	N	10	N	8	N	<.05	N	N
TEM0340R	N	N	200	17	8	N	.12	N	N
TEM0342R	20	N	30	3	5	1	<.05	N	N
TEM0001R	N	N	100	31	15	N	.26	N	N
TEM0005R	N	N	30	1	11	N	N	N	N
TEM0006R	15	N	70	N	5	1	<.05	N	N
TEM0008R	20	N	100	16	5	1	<.05	N	N
TEM0010R	50	N	200	9	5	2	<.05	N	N
TEM0018R	N	N	150	1	5	N	<.05	N	N
TEM0022R	10	300	200	N	2	11	N	N	N

TABLE 9.--Graphical Analyses of Rock Samples Without Visible MoS_2

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

TITLE	INPUT ID	N	M	***** OPTIONS ****
bridger rock	-bridger -	77	26	1 0 0 0 2 1 0 0 0 0

NUMBER OF SELECTED VARIABLES = 24

SELECTED VARIABLE INDICES

3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22
23	24	25	26						

SELECTED VARIABLE IDENTIFIERS

S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-BA	S-BE	S-CO	S-CR	S-CU
S-LA	S-MO	S-NI	S-PB	S-SC	S-SR	S-V	S-Y	S-ZR	AA-CU-P
AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P						

SELECTED ROW PAIRS
1 TO 77

LOWER BOUNDARIES OF THE LOWEST CLASSES

-0.91700	-1.75000	-1.58400	-2.08400	0.75000	0.91600	-0.41700	0.25000	0.58300	0.41600
0.91600	0.25000	0.41600	0.58300	0.25000	1.58300	0.75000	0.58300	0.75000	-0.41700
-0.08400	-0.41700	-1.75000	-1.75000						

CLASS INTERVALS

0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667						

TABLE 9.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 3 (S-FE%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-9.170E-01	-7.503E-01	1	1	1.30	1.30	3.268E-01	1.387E+00
-7.503E-01	-5.837E-01	2	3	2.60	3.90	8.679E-01	1.477E+00
-5.837E-01	-4.170E-01	3	6	3.90	7.79	1.976E+00	5.304E-01
-4.170E-01	-2.503E-01	3	9	3.90	11.69	3.858E+00	1.908E-01
-2.503E-01	-8.367E-02	5	14	6.49	18.18	6.457E+00	3.288E-01
-8.367E-02	8.300E-02	2	16	2.60	20.78	9.266E+00	5.698E+00
8.300E-02	2.497E-01	10	26	12.99	33.77	1.140E+01	1.721E-01
2.497E-01	4.163E-01	14	40	18.18	51.95	1.203E+01	3.235E-01
4.163E-01	5.830E-01	23	63	29.87	81.82	1.088E+01	1.350E+01
5.830E-01	7.497E-01	6	69	7.79	89.61	8.437E+00	7.040E-01
7.497E-01	9.163E-01	3	72	3.90	93.51	5.610E+00	1.215E+00
9.163E-01	1.083E+00	3	75	3.90	97.40	3.199E+00	1.233E-02
1.083E+00	1.250E+00	1	76	1.30	98.70	1.564E+00	2.031E-01
1.250E+00	1.416E+00	1	77	1.30	100.00	9.877E-01	1.541E-04
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.686E+01	2.575E+01

(101)

HISTOGRAM FOR VARIABLE 3 (S-FE%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
1.467E-01 X
2.153E-01 XXX
3.160E-01 XXXX
4.638E-01 XXXX
6.808E-01 XXXXXX
9.992E-01 XXX
1.467E+00 XXXXXXXXXXXX
2.153E+00 XXXXXXXXXXXXXXXXX
3.160E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+00 XXXXXXXX
6.808E+00 XXXX
9.992E+00 XXXX
1.467E+01 X
2.153E+01 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.50000E-01
MAXIMUM ANTILOG = 2.00000E+01
GEOMETRIC MEAN = 2.03061E+00
GEOMETRIC DEVIATION = 2.64346E+00

TABLE 9.--Continued

VARIANCE OF LOGS = 1.78230E-01

PERCENT TABLE FOR VARIABLE 3 (S-FE%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.398479E+00	0.250310E+01
75.00	0.544959E+00	0.350719E+01
90.00	0.766337E+00	0.583898E+01
95.00	0.980226E+00	0.955490E+01
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-1.750E+00	-1.583E+00	6	6	7.79	7.79	9.380E-01	2.732E+01
-1.583E+00	-1.417E+00	2	8	2.60	10.39	1.653E+00	7.289E-02
-1.417E+00	-1.250E+00	1	9	1.30	11.69	2.682E+00	1.055E+00
-1.250E+00	-1.083E+00	2	11	2.60	14.29	4.009E+00	1.006E+00
-1.083E+00	-9.167E-01	5	16	6.49	20.78	5.516E+00	4.835E-02
-9.167E-01	-7.500E-01	2	18	2.60	23.38	6.991E+00	3.563E+00
-7.500E-01	-5.833E-01	4	22	5.19	28.57	8.159E+00	2.120E+00
-5.833E-01	-4.167E-01	11	33	14.29	42.86	8.768E+00	5.680E-01
-4.167E-01	-2.500E-01	11	44	14.29	57.14	8.678E+00	6.214E-01
-2.500E-01	-8.333E-02	10	54	12.99	70.13	7.909E+00	5.529E-01
-8.333E-02	8.334E-02	11	65	14.29	84.42	6.638E+00	2.867E+00
8.334E-02	2.500E-01	9	74	11.69	96.10	5.130E+00	2.919E+00
2.500E-01	4.167E-01	1	75	1.30	97.40	3.651E+00	1.925E+00
4.167E-01	5.833E-01	1	76	1.30	98.70	2.393E+00	8.110E-01
5.833E-01	7.500E-01	0	76	0.00	98.70	1.444E+00	1.444E+00
7.500E-01	9.167E-01	1	77	1.30	100.00	1.543E+00	1.913E-01
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.610E+01	4.709E+01

HISTOGRAM FOR VARIABLE 4 (S-MG%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 2.154E-02 XXXXXXXX
 3.162E-02 XXX
 4.642E-02 X
 6.813E-02 XXX
 1.000E-01 XXXXXX
 1.468E-01 XXX
 2.154E-01 XXXXX
 3.162E-01 XXXXXXXXXXXXXX
 4.642E-01 XXXXXXXXXXXXXX
 6.813E-01 XXXXXXXXXXXXX
 1.000E+00 XXXXXXXXXXXXXX
 1.468E+00 XXXXXXXXXXXX
 2.154E+00 X
 3.162E+00 X
 4.642E+00
 6.813E+00 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

TABLE 9 .--Continued

```
MINIMUM ANTILOG      =  2.00000E-02
MAXIMUM ANTILOG      =  7.00000E+00
GEOMETRIC MEAN       =  3.65059E-01
GEOMETRIC DEVIATION  =  3.78912E+00
VARIANCE OF LOGS     =  3.34706E-01
```

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.333331E+00	0.464162E+00
75.00	-0.265117E-01	0.940780E+00
90.00	0.162967E+00	0.145535E+01
95.00	0.234263E+00	0.171500E+01
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 5 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-1.584E+00	-1.417E+00	2	2	2.60	2.60	3.112E-01	9.166E+00
-1.417E+00	-1.251E+00	1	3	1.30	3.90	7.044E-01	1.241E-01
-1.251E+00	-1.084E+00	3	6	3.90	7.79	1.430E+00	1.724E+00
-1.084E+00	-9.173E-01	2	8	2.60	10.39	2.603E+00	1.396E-01
-9.173E-01	-7.507E-01	1	9	1.30	11.69	4.248E+00	2.484E+00
-7.507E-01	-5.840E-01	3	12	3.90	15.58	6.218E+00	1.666E+00
-5.840E-01	-4.173E-01	13	25	16.88	32.47	8.162E+00	2.867E+00
-4.173E-01	-2.507E-01	5	30	6.49	38.96	9.608E+00	2.210E+00
-2.507E-01	-8.400E-02	4	34	5.19	44.16	1.014E+01	3.719E+00
-8.400E-02	8.267E-02	13	47	16.88	61.04	9.599E+00	1.205E+00
8.267E-02	2.493E-01	12	59	15.58	76.62	8.148E+00	1.822E+00
2.493E-01	4.160E-01	15	74	19.48	96.10	6.202E+00	1.248E+01
4.160E-01	5.827E-01	2	76	2.60	98.70	4.233E+00	1.178E+00
5.827E-01	7.493E-01	0	76	0.00	98.70	2.591E+00	2.591E+00
7.493E-01	9.160E-01	0	76	0.00	98.70	1.422E+00	1.422E+00
9.160E-01	1.083E+00	1	77	1.30	100.00	1.194E+00	3.138E-02
	G	0	77	0.00	100.00		
	H	0	77				
	B	0	77				
TOTALS LESS H AND B		77				7.681E+01	4.483E+01

HISTOGRAM FOR VARIABLE 5 (S-CA%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E-02 XXX
4.634E-02 X
6.802E-02 XXXX
9.985E-02 XXX
1.466E-01 X
2.151E-01 XXXX
3.157E-01 XXXXXXXXXXXXXXXX
4.634E-01 XXXXXX
6.803E-01 XXXXX
9.985E-01 XXXXXXXXXXXXXXXX
1.466E+00 XXXXXXXXXXXXXXX
2.151E+00 XXXXXXXXXXXXXXXXXX
3.157E+00 XXX
4.635E+00
6.803E+00
9.985E+00 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

TABLE 9.--Continued

```
MINIMUM ANTILOG      =  3.50000E-02
MAXIMUM ANTILOG      =  1.00000E+01
GEOMETRIC MEAN       =  6.79167E-01
GEOMETRIC DEVIATION  =  3.18089E+00
VARIANCE OF LOGS     =  2.52555E-01
```

```
PERCENT TABLE FOR VARIABLE    5 (S-CA%    ) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
    THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50
```

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.263046E-01	0.941229E+00
75.00	0.231976E+00	0.170599E+01
90.00	0.363782E+00	0.231090E+01
95.00	0.406560E+00	0.255011E+01
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-2.084E+00	-1.917E+00	1	1	1.30	1.30	1.692E-01	4.081E+00
-1.917E+00	-1.751E+00	0	1	0.00	1.30	4.649E-01	4.649E-01
-1.751E+00	-1.584E+00	4	5	5.19	6.49	1.112E+00	7.497E+00
-1.584E+00	-1.417E+00	5	10	6.49	12.99	2.317E+00	3.106E+00
-1.417E+00	-1.251E+00	2	12	2.60	15.58	4.203E+00	1.155E+00
-1.251E+00	-1.084E+00	2	14	2.60	18.18	6.638E+00	3.241E+00
-1.084E+00	-9.173E-01	1	15	1.30	19.48	9.129E+00	7.239E+00
-9.173E-01	-7.507E-01	5	20	6.49	25.97	1.093E+01	3.219E+00
-7.507E-01	-5.840E-01	15	- 35	19.48	45.45	1.140E+01	1.138E+00
-5.840E-01	-4.173E-01	25	60	32.47	77.92	1.035E+01	2.075E+01
-4.173E-01	-2.507E-01	11	71	14.29	92.21	8.180E+00	9.721E-01
-2.507E-01	-8.400E-02	4	75	5.19	97.40	5.630E+00	4.721E-01
-8.400E-02	3.267E-02	2	77	2.60	100.00	6.405E+00	3.029E+00
	G	0	77	0.00	100.00		
	H	0	77				
	B	0	77				
TOTALS LESS H AND B		77				7.693E+01	5.636E+01

HISTOGRAM FOR VARIABLE 6 (S-TI%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
     9.985E-03 X
     1.466E-02
     2.151E-02 XXXXX
     3.157E-02 XXXXXX
     4.634E-02 XXX
     6.802E-02 XXX
     9.985E-02 X
     1.466E-01 XXXXXX
     2.151E-01 XXXXXXXXXXXXXXXXXX
     3.157E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
     4.635E-01 XXXXXXXXXXXXX
     6.805E-01 XXXXX
     9.985E-01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E-02
MAXIMUM ANTILOG      =  1.00000E+00
GEOMETRIC MEAN       =  1.99352E-01
GEOMETRIC DEVIATION  =  2.78844E+00
VARIANCE OF LOGS     =  1.98346E-01
```

TABLE 9.--Continued

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.560664E+00	0.275002E+00
75.00	-0.432330E+00	0.369547E+00
90.00	-0.276421E+00	0.529151E+00
95.00	-0.161079E+00	0.690113E+00
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
7.500E-01	-	9.167E-01	1	1	1.30	1.30	5.811E-02	1.527E+01
9.167E-01	-	1.083E+00	2	3	2.60	3.90	1.804E-01	1.835E+01
1.083E+00	-	1.250E+00	1	4	1.30	5.19	4.884E-01	5.358E-01
1.250E+00	-	1.417E+00	0	4	0.00	5.19	1.153E+00	1.153E+00
1.417E+00	-	1.583E+00	2	6	2.60	7.79	2.375E+00	5.935E-02
1.583E+00	-	1.750E+00	3	9	3.90	11.69	4.267E+00	3.763E-01
1.750E+00	-	1.917E+00	3	12	3.90	15.58	6.686E+00	2.032E+00
1.917E+00	-	2.083E+00	4	16	5.19	20.78	9.136E+00	2.888E+00
2.083E+00	-	2.250E+00	11	27	14.29	35.06	1.089E+01	1.107E-03
2.250E+00	-	2.417E+00	6	33	7.79	42.86	1.132E+01	2.502E+00
2.417E+00	-	2.583E+00	31	64	40.26	83.12	1.027E+01	4.187E+01
2.583E+00	-	2.750E+00	7	71	9.09	92.21	8.121E+00	1.546E-01
2.750E+00	-	2.917E+00	2	73	2.60	94.81	5.602E+00	2.316E+00
2.917E+00	-	3.083E+00	3	76	3.90	98.70	3.371E+00	4.082E-02
3.083E+00	-	3.250E+00	1	77	1.30	100.00	3.061E+00	1.387E+00
	G		0	77	0.00	100.00		
	H		0	77				
	B		0	77				
TOTALS LESS H AND B			77				7.698E+01	8.893E+01

HISTOGRAM FOR VARIABLE 7 (S-MN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+00 X
1.000E+01 XXX
1.468E+01 X
2.154E+01
3.162E+01 XXX
4.642E+01 XXXX
6.813E+01 XXXX
1.000E+02 XXXXX
1.468E+02 XXXXXXXXXXXXX
2.154E+02 XXXXXXXX
3.162E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+02 XXXXXXXXX
6.813E+02 XXX
1.000E+03 XXXX
1.468E+03 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
MAXIMUM ANTILOG = 1.50000E+03

TABLE 9.--Continued

GEOMETRIC MEAN = 1.98340E+02
GEOMETRIC DEVIATION = 2.80658E+00
VARIANCE OF LOGS = 2.00863E-01

PERCENT TABLE FOR VARIABLE 7 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.244624E+01	0.279409E+03
75.00	0.254973E+01	0.354597E+03
90.00	0.270953E+01	0.512304E+03
95.00	0.292500E+01	0.841404E+03
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 8 (S-BA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	2	2	2.60	2.60	1.779E-01	1.867E+01
1.083E+00 -	1.249E+00	3	5	3.90	6.49	3.481E-01	2.020E+01
1.249E+00 -	1.416E+00	2	7	2.60	9.09	6.381E-01	2.907E+00
1.416E+00 -	1.583E+00	0	7	0.00	9.09	1.096E+00	1.096E+00
1.583E+00 -	1.749E+00	1	8	1.30	10.39	1.762E+00	3.295E-01
1.749E+00 -	1.916E+00	1	9	1.30	11.69	2.654E+00	1.031E+00
1.916E+00 -	2.083E+00	0	9	0.00	11.69	3.744E+00	3.744E+00
2.083E+00 -	2.249E+00	4	13	5.19	16.88	4.948E+00	1.817E-01
2.249E+00 -	2.416E+00	2	15	2.60	19.48	6.125E+00	2.778E+00
2.416E+00 -	2.583E+00	3	18	3.90	23.38	7.101E+00	2.369E+00
2.583E+00 -	2.749E+00	8	26	10.39	33.77	7.711E+00	1.081E-02
2.749E+00 -	2.916E+00	3	29	3.90	37.66	7.844E+00	2.991E+00
2.916E+00 -	3.083E+00	16	45	20.78	58.44	7.473E+00	9.731E+00
3.083E+00 -	3.249E+00	19	64	24.68	83.12	6.668E+00	2.281E+01
3.249E+00 -	3.416E+00	8	72	10.39	93.51	5.574E+00	1.056E+00
3.416E+00 -	3.583E+00	3	75	3.90	97.40	4.363E+00	4.260E-01
3.583E+00 -	3.749E+00	2	77	2.60	100.00	8.624E+00	5.088E+00
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.685E+01	9.541E+01

HISTOGRAM FOR VARIABLE 8 (S-BA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E+00 XXX
 1.466E+01 XXXX
 2.151E+01 XXX
 3.157E+01
 4.634E+01 X
 6.802E+01 X
 9.985E+01
 1.466E+02 XXXXX
 2.151E+02 XXX
 3.157E+02 XXXX
 4.635E+02 XXXXXXXXXX
 6.803E+02 XXXX
 9.985E+02 XXXXXXXXXXXXXXXXXXXX
 1.466E+03 XXXXXXXXXXXXXXXXXXXXXXXX
 2.151E+03 XXXXXXXXXX
 3.157E+03 XXXX
 4.635E+03 XXX
```

TABLE 9.--Continued

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+01
MAXIMUM ANTILOG	=	5.00000E+03
GEOMETRIC MEAN	=	6.20343E+02
GEOMETRIC DEVIATION	=	4.46398E+00
VARIANCE OF LOGS	=	4.22139E-01

PERCENT TABLE FOR VARIABLE 8 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.301496E+01	0.103505E+04
75.00	0.319451E+01	0.156500E+04
90.00	0.335975E+01	0.228958E+04
95.00	0.347989E+01	0.301921E+04
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 9 (S-BE)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-4.170E-01	-2.503E-01	8	8	10.39	10.39	3.450E+00	6.000E+00
-2.503E-01	-8.367E-02	10	18	12.99	23.38	1.273E+01	5.839E-01
-8.367E-02	8.300E-02	17	35	22.08	45.45	2.380E+01	1.942E+00
8.300E-02	2.497E-01	29	64	37.66	83.12	2.260E+01	1.810E+00
2.497E-01	4.163E-01	11	75	14.29	97.40	1.090E+01	8.785E-04
4.163E-01	5.830E-01	2	77	2.60	100.00	3.015E+00	3.416E-01
	G	0	77	0.00	100.00		
	H	0	77				
	B	0	77				
TOTALS LESS H AND B		77				7.649E+01	1.068E+01

HISTOGRAM FOR VARIABLE 9 (S-BE)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 4.638E-01 XXXXXXXXXX
 6.808E-01 XXXXXXXXXXXX
 9.992E-01 XXXXXXXXXXXXXXXXXXXXXX
 1.467E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 2.153E+00 XXXXXXXXXXXXXX
 3.160E+00 XXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 3.00000E+00
GEOMETRIC MEAN = 1.17577E+00
GEOMETRIC DEVIATION = 1.57228E+00
VARIANCE OF LOGS = 3.86241E-02

PERCENT TABLE FOR VARIABLE 9 (S-BE) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.103116E+00	0.126799E+01
75.00	0.213748E+00	0.163587E+01
90.00	0.329971E+00	0.213782E+01
95.00	0.388305E+00	0.244515E+01

TABLE 9.--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 10 (S-CO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
2.500E-01 -	4.167E-01	3	3	3.90	3.90	3.343E+00	3.526E-02
4.167E-01 -	5.833E-01	9	12	11.69	15.58	7.029E+00	5.530E-01
5.833E-01 -	7.500E-01	12	24	15.58	31.17	1.154E+01	1.839E-02
7.500E-01 -	9.167E-01	25	49	32.47	63.64	1.480E+01	7.037E+00
9.167E-01 -	1.083E+00	13	62	16.88	80.52	1.482E+01	2.231E-01
1.083E+00 -	1.250E+00	2	64	2.60	83.12	1.159E+01	7.936E+00
1.250E+00 -	1.417E+00	6	70	7.79	90.91	7.081E+00	1.649E-01
1.417E+00 -	1.583E+00	2	72	2.60	93.51	3.378E+00	5.622E-01
1.583E+00 -	1.750E+00	3	75	3.90	97.40	1.259E+00	2.410E+00
1.750E+00 -	1.917E+00	1	76	1.30	98.70	3.661E-01	1.098E+00
1.917E+00 -	2.083E+00	1	77	1.30	100.00	1.002E-01	8.085E+00
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.530E+01	2.812E+01

(115)

HISTOGRAM FOR VARIABLE 10 (S-CO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+00 XXXX
3.162E+00 XXXXXXXXXXX
4.642E+00 XXXXXXXXXXXXXXXX
6.813E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+01 XXXXXXXXXXXXXXXX
1.468E+01 XXX
2.154E+01 XXXXXXXX
3.162E+01 XXX
4.642E+01 XXXX
6.813E+01 X
1.000E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	2.50000E+00
MAXIMUM ANTILOG	=	1.00000E+02
GEOMETRIC MEAN	=	8.27302E+00
GEOMETRIC DEVIATION	=	2.14660E+00
VARIANCE OF LOGS	=	1.10059E-01

PERCENT TABLE FOR VARIABLE 10 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 9.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.846668E+00	0.702535E+01
75.00	0.102885E+01	0.106868E+02
90.00	0.139722E+01	0.249588E+02
95.00	0.164723E+01	0.443839E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 11 (S-CR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
5.830E-01 -	7.497E-01	9	9	11.69	11.69	8.781E+00	5.472E-03
7.497E-01 -	9.163E-01	23	32	29.87	41.56	1.543E+01	3.715E+00
9.163E-01 -	1.083E+00	25	57	32.47	74.03	1.871E+01	2.116E+00
1.083E+00 -	1.250E+00	14	71	18.18	92.21	1.566E+01	1.751E-01
1.250E+00 -	1.416E+00	2	73	2.60	94.81	9.041E+00	5.483E+00
1.416E+00 -	1.583E+00	2	75	2.60	97.40	3.602E+00	7.124E-01
1.583E+00 -	1.750E+00	0	75	0.00	97.40	9.896E-01	9.896E-01
1.750E+00 -	1.916E+00	0	75	0.00	97.40	1.874E-01	1.874E-01
1.916E+00 -	2.083E+00	0	75	0.00	97.40	2.445E-02	2.445E-02
2.083E+00 -	2.250E+00	1	76	1.30	98.70	0.000E+00	0.000E+00
2.250E+00 -	2.416E+00	1	77	1.30	100.00	2.338E-03	4.256E+02
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.242E+01	4.391E+02

HISTOGRAM FOR VARIABLE 11 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(117)

```
4.638E+00 XXXXXXXXXXX
6.808E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.992E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+01 XXXXXXXXXXXXXXXX
2.153E+01 XXX
3.160E+01 XXX
4.638E+01
6.808E+01
9.992E+01
1.467E+02 X
2.153E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	5.00000E+00
MAXIMUM ANTILOG	=	2.00000E+02
GEOMETRIC MEAN	=	1.00680E+01
GEOMETRIC DEVIATION	=	1.85925E+00
VARIANCE OF LOGS	=	7.25433E-02

PERCENT TABLE FOR VARIABLE 11 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 9.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.959667E+00	0.911313E+01
75.00	0.109193E+01	0.123575E+02
90.00	0.122943E+01	0.169602E+02
95.00	0.142884E+01	0.268432E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 12 (S-CU)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
4.160E-01 -	5.827E-01	19	19	24.68	24.68	5.096E+00	3.794E+01
5.827E-01 -	7.493E-01	7	26	9.09	33.77	7.519E+00	3.586E-02
7.493E-01 -	9.160E-01	6	32	7.79	41.56	9.723E+00	1.425E+00
9.160E-01 -	1.083E+00	6	38	7.79	49.35	1.102E+01	2.284E+00
1.083E+00 -	1.249E+00	12	50	15.58	64.94	1.094E+01	1.030E-01
1.249E+00 -	1.416E+00	11	61	14.29	79.22	9.518E+00	2.308E-01
1.416E+00 -	1.583E+00	6	67	7.79	87.01	7.257E+00	2.178E-01
1.583E+00 -	1.749E+00	4	71	5.19	92.21	4.849E+00	1.487E-01
1.749E+00 -	1.916E+00	2	73	2.60	94.81	2.839E+00	2.481E-01
1.916E+00 -	2.083E+00	2	75	2.60	97.40	1.457E+00	2.026E-01
2.083E+00 -	2.249E+00	0	75	0.00	97.40	6.550E-01	6.550E-01
2.249E+00 -	2.416E+00	2	77	2.60	100.00	3.833E-01	6.819E+00
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.125E+01	5.031E+01

HISTOGRAM FOR VARIABLE 12 (S-CU)

MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+00 XXXXXXXXXXXXXXXXXXXXXXXX
4.634E+00 XXXXXXXXX
6.802E+00 XXXXXXXX
9.985E+00 XXXXXXXX
1.466E+01 XXXXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXXX
3.157E+01 XXXXXXX
4.634E+01 XXXXX
6.803E+01 XXX
9.985E+01 XXX
1.466E+02
2.151E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  3.50000E+00
MAXIMUM ANTILOG      =  2.00000E+02
GEOMETRIC MEAN       =  1.18499E+01
GEOMETRIC DEVIATION  =  2.85846E+00
VARIANCE OF LOGS     =  2.08056E-01
```

TABLE 9.--Continued

PERCENT TABLE FOR VARIABLE 12 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.108961E+01	0.122917E+02
75.00	0.136676E+01	0.232680E+02
90.00	0.167850E+01	0.476983E+02
95.00	0.192850E+01	0.848209E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 13 (S-LA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	6	6	7.79	7.79	4.300E+00	6.717E-01
1.083E+00 -	1.249E+00	7	13	9.09	16.88	6.510E+00	3.683E-02
1.249E+00 -	1.416E+00	18	31	23.38	40.26	8.712E+00	9.902E+00
1.416E+00 -	1.583E+00	10	41	12.99	53.25	1.031E+01	9.061E-03
1.583E+00 -	1.749E+00	8	49	10.39	63.64	1.078E+01	7.151E-01
1.749E+00 -	1.916E+00	6	55	7.79	71.43	9.960E+00	1.575E+00
1.916E+00 -	2.083E+00	8	63	10.39	81.82	8.138E+00	2.340E-03
2.083E+00 -	2.249E+00	6	69	7.79	89.61	5.878E+00	2.552E-03
2.249E+00 -	2.416E+00	2	71	2.60	92.21	3.752E+00	8.183E-01
2.416E+00 -	2.583E+00	3	74	3.90	96.10	2.118E+00	3.678E-01
2.583E+00 -	2.749E+00	1	75	1.30	97.40	1.056E+00	2.999E-03
2.749E+00 -	2.916E+00	1	76	1.30	98.70	4.657E-01	6.129E-01
2.916E+00 -	3.083E+00	1	77	1.30	100.00	2.698E-01	1.977E+00
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.224E+01	1.669E+01

(121)

HISTOGRAM FOR VARIABLE 13 (S-LA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
9.985E+00 XXXXXXXX
1.466E+01 XXXXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXX
4.634E+01 XXXXXXXXXX
6.802E+01 XXXXXXXX
9.985E+01 XXXXXXXXXX
1.466E+02 XXXXXXXX
2.151E+02 XXX
3.157E+02 XXXX
4.635E+02 X
6.805E+02 X
9.985E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 4.39516E+01
GEOMETRIC DEVIATION = 2.96551E+00
VARIANCE OF LOGS = 2.22877E-01

TABLE 9.--Continued

PERCENT TABLE FOR VARIABLE 13 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.154100E+01	0.347537E+02
75.00	0.197329E+01	0.940359E+02
90.00	0.227434E+01	0.188077E+03
95.00	0.253545E+01	0.343121E+03
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 14 (S-MO)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
2.500E-01 - 4.167E-01	54	54	70.13	70.13	9.447E+00	2.101E+02
4.167E-01 - 5.833E-01	13	67	16.88	87.01	1.058E+01	5.529E-01
5.833E-01 - 7.500E-01	3	70	3.90	90.91	1.050E+01	5.354E+00
7.500E-01 - 9.167E-01	0	70	0.00	90.91	9.223E+00	9.223E+00
9.167E-01 - 1.083E+00	1	71	1.30	92.21	7.177E+00	5.316E+00
1.083E+00 - 1.250E+00	1	72	1.30	93.51	4.946E+00	3.149E+00
1.250E+00 - 1.417E+00	0	72	0.00	93.51	3.019E+00	3.019E+00
1.417E+00 - 1.583E+00	0	72	0.00	93.51	1.632E+00	1.632E+00
1.583E+00 - 1.750E+00	0	72	0.00	93.51	7.816E-01	7.816E-01
1.750E+00 - 1.917E+00	2	74	2.60	96.10	3.315E-01	8.399E+00
1.917E+00 - 2.083E+00	1	75	1.30	97.40	1.245E-01	6.157E+00
2.083E+00 - 2.250E+00	0	75	0.00	97.40	4.141E-02	4.141E-02
2.250E+00 - 2.417E+00	0	75	0.00	97.40	1.220E-02	1.220E-02
2.417E+00 - 2.583E+00	0	75	0.00	97.40	3.183E-03	3.183E-03
2.583E+00 - 2.750E+00	1	76	1.30	98.70	0.000E+00	0.000E+00
2.750E+00 - 2.917E+00	1	77	1.30	100.00	9.185E-04	1.087E+03
G	0	77	0.00	100.00		
H	0	77				
B	0	77				
TOTALS LESS H AND B	77				5.782E+01	1.341E+03

HISTOGRAM FOR VARIABLE 14 (S-MO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XXXXXXXXXXXXXXXXX
4.642E+00 XXXX
6.813E+00
1.000E+01 X
1.468E+01 X
2.154E+01
3.162E+01
4.642E+01
6.813E+01 XXX
1.000E+02 X
1.468E+02
2.154E+02
3.162E+02
4.642E+02 X
6.813E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

TABLE 9.--Continued

MINIMUM ANTILOG = 2.50000E+00
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 3.73528E+00
GEOMETRIC DEVIATION = 2.99175E+00
VARIANCE OF LOGS = 2.26505E-01

PERCENT TABLE FOR VARIABLE 14 (S-NO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100000E+36	0.100000E+36
75.00	0.464744E+00	0.291571E+01
90.00	0.711112E+00	0.514176E+01
95.00	0.163334E+01	0.429869E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 15 (S-NI)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
4.160E-01	-	5.827E-01	7	7	9.09	9.09	5.822E+00	2.385E-01
5.827E-01	-	7.493E-01	21	28	27.27	36.36	1.055E+01	1.034E+01
7.493E-01	-	9.160E-01	12	40	15.58	51.95	1.468E+01	4.901E-01
9.160E-01	-	1.083E+00	14	54	18.18	70.13	1.567E+01	1.788E-01
1.083E+00	-	1.249E+00	11	65	14.29	84.42	1.284E+01	2.637E-01
1.249E+00	-	1.416E+00	5	70	6.49	90.91	8.071E+00	1.169E+00
1.416E+00	-	1.583E+00	4	74	5.19	96.10	3.893E+00	2.935E-03
1.583E+00	-	1.749E+00	1	75	1.30	97.40	1.441E+00	1.348E-01
1.749E+00	-	1.916E+00	1	76	1.30	98.70	4.089E-01	8.542E-01
1.916E+00	-	2.083E+00	0	76	0.00	98.70	8.904E-02	8.904E-02
2.083E+00	-	2.249E+00	1	77	1.30	100.00	1.697E-02	5.694E+01
	G		0	77	0.00	100.00		
	H		0	77				
	B		0	77				
TOTALS LESS H AND B			77				7.349E+01	7.070E+01

HISTOGRAM FOR VARIABLE 15 (S-NI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(125)

```
3.157E+00 XXXXXXXXX
4.634E+00 XXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+00 XXXXXXXXXXXXXXXX
9.985E+00 XXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXXXXXXXX
2.151E+01 XXXXXX
3.157E+01 XXXXX
4.634E+01 X
6.803E+01 X
9.985E+01
1.466E+02 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.50000E+00
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 9.05999E+00
GEOMETRIC DEVIATION = 2.09057E+00
VARIANCE OF LOGS = 1.02569E-01

PERCENT TABLE FOR VARIABLE 15 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 9.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.895168E+00	0.785539E+01
75.00	0.113949E+01	0.137875E+02
90.00	0.139267E+01	0.246984E+02
95.00	0.154725E+01	0.352576E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 16 (S-PB)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
5.830E-01 - 7.497E-01	1	1	1.30	1.30	4.152E-01	8.238E-01
7.497E-01 - 9.163E-01	5	6	6.49	7.79	1.889E+00	5.123E+00
9.163E-01 - 1.083E+00	5	11	6.49	14.29	5.872E+00	1.294E-01
1.083E+00 - 1.250E+00	6	17	7.79	22.08	1.247E+01	3.360E+00
1.250E+00 - 1.416E+00	6	23	7.79	29.87	1.812E+01	8.106E+00
1.416E+00 - 1.583E+00	38	61	49.35	79.22	1.800E+01	2.223E+01
1.583E+00 - 1.750E+00	11	72	14.29	93.51	1.223E+01	1.230E-01
1.750E+00 - 1.916E+00	5	77	6.49	100.00	7.936E+00	1.086E+00
G	0	77	0.00	100.00		
H	0	77				
B	0	77				
TOTALS LESS H AND B	77				7.693E+01	4.098E+01

HISTOGRAM FOR VARIABLE 16 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(127)

```
4.638E+00 X
6.808E+00 XXXXXX
9.992E+00 XXXXXX
1.467E+01 XXXXXXXX
2.153E+01 XXXXXXXX
3.160E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+01 XXXXXXXXXXXXXX
6.808E+01 XXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E+00
MAXIMUM ANTILOG      =  7.00000E+01
GEOMETRIC MEAN       =  2.59061E+01
GEOMETRIC DEVIATION  =  1.84492E+00
VARIANCE OF LOGS     =  7.07441E-02
```

PERCENT TABLE FOR VARIABLE 16 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE

TABLE 9.--Continued

50.00	0.148432E+01	0.305012E+02
75.00	0.156875E+01	0.370465E+02
90.00	0.170870E+01	0.511399E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 17 (S-SC)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
2.500E-01	-	4.167E-01	22	22	28.57	28.57	7.622E+00	2.712E+01
4.167E-01	-	5.833E-01	9	31	11.69	40.26	1.687E+01	3.671E+00
5.833E-01	-	7.500E-01	20	51	25.97	66.23	2.217E+01	2.127E-01
7.500E-01	-	9.167E-01	17	68	22.08	88.31	1.731E+01	5.537E-03
9.167E-01	-	1.083E+00	6	74	7.79	96.10	8.025E+00	5.109E-01
1.083E+00	-	1.250E+00	2	76	2.60	98.70	2.207E+00	1.944E-02
1.250E+00	-	1.417E+00	1	77	1.30	100.00	3.963E-01	9.198E-01
	G		0	77	0.00	100.00		
	H		0	77				
	B		0	77				
TOTALS LESS H AND B			77				7.460E+01	3.246E+01

HISTOGRAM FOR VARIABLE 17 (S-SC)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XXXXXXXXXXXX
4.642E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+00 XXXXXXXXXXXXXXXXXXXX
1.000E+01 XXXXXXXX
1.468E+01 XXX
2.154E+01 X
```

(129)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.50000E+00
MAXIMUM ANTILOG = 2.00000E+01
GEOMETRIC MEAN = 4.68583E+00
GEOMETRIC DEVIATION = 1.68167E+00
VARIANCE OF LOGS = 5.09591E-02

PERCENT TABLE FOR VARIABLE 17 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.645834E+00	0.442419E+01
75.00	0.816178E+00	0.654904E+01

TABLE 9.--Continued

90.00	0.952779E+00	0.896973E+01
95.00	0.105972E+01	0.114742E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 18 (S-SR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.583E+00 -	1.750E+00	15	15	19.48	19.48	2.577E+00	5.990E+01
1.750E+00 -	1.916E+00	1	16	1.30	20.78	4.836E+00	3.043E+00
1.916E+00 -	2.083E+00	2	18	2.60	23.38	7.726E+00	4.244E+00
2.083E+00 -	2.250E+00	1	19	1.30	24.68	1.051E+01	8.602E+00
2.250E+00 -	2.416E+00	8	27	10.39	35.06	1.216E+01	1.425E+00
2.416E+00 -	2.583E+00	17	44	22.08	57.14	1.199E+01	2.097E+00
2.583E+00 -	2.750E+00	27	71	35.06	92.21	1.005E+01	2.856E+01
2.750E+00 -	2.916E+00	2	73	2.60	94.81	7.179E+00	3.737E+00
2.916E+00 -	3.083E+00	3	76	3.90	98.70	4.364E+00	4.262E-01
3.083E+00 -	3.250E+00	0	76	0.00	98.70	2.258E+00	2.258E+00
3.250E+00 -	3.416E+00	1	77	1.30	100.00	1.527E+00	1.821E-01
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.518E+01	1.145E+02

HISTOGRAM FOR VARIABLE 18 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+01 XXXXXXXXXXXXXXXXXX
6.808E+01 X
9.992E+01 XXX
1.467E+02 X
2.153E+02 XXXXXXXXXX
3.160E+02 XXXXXXXXXXXXXXXXXXXX
4.638E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+02 XXX
9.992E+02 XXXX
1.467E+03
2.153E+03 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
MAXIMUM ANTILOG = 2.00000E+03
GEOMETRIC MEAN = 2.51854E+02
GEOMETRIC DEVIATION = 2.58510E+00
VARIANCE OF LOGS = 1.70138E-01

PERCENT TABLE FOR VARIABLE 18 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 9.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.252908E+01	0.338127E+03
75.00	0.266788E+01	0.465456E+03
90.00	0.273918E+01	0.548498E+03
95.00	0.292467E+01	0.840755E+03
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 19 (S-V)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
7.500E-01	-	9.167E-01	10	10	12.99	12.99	3.329E+00	1.337E+01
9.167E-01	-	1.083E+00	5	15	6.49	19.48	5.939E+00	1.483E-01
1.083E+00	-	1.250E+00	3	18	3.90	23.38	8.978E+00	3.980E+00
1.250E+00	-	1.417E+00	6	24	7.79	31.17	1.150E+01	2.633E+00
1.417E+00	-	1.583E+00	23	47	29.87	61.04	1.249E+01	8.836E+00
1.583E+00	-	1.750E+00	10	57	12.99	74.03	1.150E+01	1.955E-01
1.750E+00	-	1.917E+00	13	70	16.88	90.91	8.971E+00	1.809E+00
1.917E+00	-	2.083E+00	3	73	3.90	94.81	5.932E+00	1.449E+00
2.083E+00	-	2.250E+00	2	75	2.60	97.40	3.324E+00	5.274E-01
2.250E+00	-	2.417E+00	0	75	0.00	97.40	1.579E+00	1.579E+00
2.417E+00	-	2.583E+00	0	75	0.00	97.40	6.354E-01	6.354E-01
2.583E+00	-	2.750E+00	2	77	2.60	100.00	2.986E-01	9.694E+00
	G		0	77	0.00	100.00		
	H		0	77				
	B		0	77				
TOTALS LESS H AND B			77				7.448E+01	4.485E+01

HISTOGRAM FOR VARIABLE 19 (S-V)

MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+00 XXXXXXXXXXXX
1.000E+01 XXXXXX
1.468E+01 XXXX
2.154E+01 XXXXXXXX
3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXX
1.000E+02 XXXX
1.468E+02 XXX
2.154E+02
3.162E+02
4.642E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  7.00000E+00
MAXIMUM ANTILOG      =  5.00000E+02
GEOMETRIC MEAN       =  3.16089E+01
GEOMETRIC DEVIATION  =  2.55244E+00
VARIANCE OF LOGS     =  1.65613E-01
```

TABLE 9.--Continued

PERCENT TABLE FOR VARIABLE 19 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.152174E+01	0.332461E+02
75.00	0.175962E+01	0.574933E+02
90.00	0.190769E+01	0.808527E+02
95.00	0.209584E+01	0.124691E+03
99.00	0.100000E+36	0.100000E+36

TABLE 9 .--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 20 (S-Y)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
5.830E-01	-	7.497E-01	28	28	36.36	36.36	8.274E+00	4.703E+01
7.497E-01	-	9.163E-01	5	33	6.49	42.86	1.355E+01	5.398E+00
9.163E-01	-	1.083E+00	10	43	12.99	55.84	1.656E+01	2.596E+00
1.083E+00	-	1.250E+00	7	50	9.09	64.94	1.508E+01	4.333E+00
1.250E+00	-	1.416E+00	16	66	20.78	85.71	1.025E+01	3.227E+00
1.416E+00	-	1.583E+00	10	76	12.99	98.70	5.193E+00	4.449E+00
1.583E+00	-	1.750E+00	1	77	1.30	100.00	2.651E+00	1.028E+00
	G		0	77	0.00	100.00		
	H		0	77				
	B		0	77				
TOTALS LESS H AND B			77				7.156E+01	6.806E+01

HISTOGRAM FOR VARIABLE 20 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.80dE+00 XXXXXX
9.992E+00 XXXXXXXXXXXXX
1.467E+01 XXXXXXXXX
2.153E+01 XXXXXXXXXXXXXXXXXXXX
3.160E+01 XXXXXXXXXXXXX
4.638E+01 X
```

(135)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 5.00000E+01
GEOMETRIC MEAN = 1.07171E+01
GEOMETRIC DEVIATION = 2.01332E+00
VARIANCE OF LOGS = 9.23635E-02

PERCENT TABLE FOR VARIABLE 20 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100800E+01	0.101859E+02
75.00	0.133040E+01	0.213992E+02

TABLE 9.--Continued

90.00	0.147134E+01	0.296030E+02
95.00	0.153550E+01	0.343164E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 21 (S-ZR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
7.500E-01 -	9.167E-01	3	3	3.90	3.90	7.767E-01	6.365E+00
9.167E-01 -	1.083E+00	6	9	7.79	11.69	1.613E+00	1.194E+01
1.083E+00 -	1.250E+00	1	10	1.30	12.99	2.971E+00	1.308E+00
1.250E+00 -	1.417E+00	2	12	2.60	15.58	4.859E+00	1.682E+00
1.417E+00 -	1.583E+00	2	14	2.60	18.18	7.051E+00	3.618E+00
1.583E+00 -	1.750E+00	5	19	6.49	24.68	9.080E+00	1.833E+00
1.750E+00 -	1.917E+00	9	28	11.69	36.36	1.038E+01	1.825E-01
1.917E+00 -	2.083E+00	19	47	24.68	61.04	1.052E+01	6.828E+00
2.083E+00 -	2.250E+00	11	58	14.29	75.32	9.471E+00	2.468E-01
2.250E+00 -	2.417E+00	7	65	9.09	84.42	7.565E+00	4.214E-02
2.417E+00 -	2.583E+00	9	74	11.69	96.10	5.362E+00	2.469E+00
2.583E+00 -	2.750E+00	1	75	1.30	97.40	3.373E+00	1.669E+00
2.750E+00 -	2.917E+00	2	77	2.60	100.00	3.464E+00	6.184E-01
G		0	77	0.00	100.00		
H		0,	77				
B		0	77				
TOTALS LESS H AND B		77				7.648E+01	3.880E+01

HISTOGRAM FOR VARIABLE 21 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+00 XXXX
1.000E+01 XXXXXXXX
1.468E+01 X
2.154E+01 XXX
3.162E+01 XXX
4.642E+01 XXXXXX
6.813E+01 XXXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXXXXXXXXXXXXX
1.468E+02 XXXXXXXXXXXXX
2.154E+02 XXXXXXXXX
3.162E+02 XXXXXXXXXXX
4.642E+02 X
6.813E+02 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  7.00000E+00
MAXIMUM ANTILOG      =  7.00000E+02
GEOMETRIC MEAN       =  8.63595E+01
GEOMETRIC DEVIATION  =  3.01915E+00
VARIANCE OF LOGS     =  2.30290E-01
```

TABLE 9.--Continued

PERCENT TABLE FOR VARIABLE 21 (S-ZR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.200877E+01	0.102041E+03
75.00	0.224622E+01	0.176285E+03
90.00	0.249630E+01	0.313545E+03
95.00	0.256760E+01	0.369485E+03
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 22 (AA-CU-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-4.170E-01	-2.503E-01	9	9	11.69	11.69	3.131E+00	1.100E+01
-2.503E-01	-8.367E-02	0	9	0.00	11.69	4.435E+00	4.435E+00
-8.367E-02	8.300E-02	20	29	25.97	37.66	5.827E+00	3.447E+01
8.300E-02	2.497E-01	0	29	0.00	37.66	7.102E+00	7.102E+00
2.497E-01	4.163E-01	8	37	10.39	48.05	8.028E+00	1.001E-01
4.163E-01	5.830E-01	5	42	6.49	54.55	8.418E+00	1.388E+00
5.830E-01	7.497E-01	9	51	11.69	66.23	8.187E+00	8.065E-02
7.497E-01	9.163E-01	7	58	9.09	75.32	7.386E+00	2.020E-02
9.163E-01	1.083E+00	3	61	3.90	79.22	6.181E+00	1.637E+00
1.083E+00	1.250E+00	2	63	2.60	81.82	4.797E+00	1.631E+00
1.250E+00	1.416E+00	5	68	6.49	88.31	3.454E+00	6.921E-01
1.416E+00	1.583E+00	6	74	7.79	96.10	2.307E+00	5.914E+00
1.583E+00	1.750E+00	2	76	2.60	98.70	1.429E+00	2.284E-01
1.750E+00	1.916E+00	1	77	1.30	100.00	1.642E+00	2.508E-01
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.233E+01	6.885E+01

HISTOGRAM FOR VARIABLE 22 (AA-CU-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-01 XXXXXXXXXXX
6.808E-01
9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+00
2.153E+00 XXXXXXXXXX
3.160E+00 XXXXXX
4.638E+00 XXXXXXXXXXX
6.808E+00 XXXXXXXXX
9.992E+00 XXXX
1.467E+01 XXX
2.153E+01 XXXXXX
3.160E+01 XXXXXXXX
4.638E+01 XXX
6.808E+01 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 6.10000E+01
GEOMETRIC MEAN = 3.32208E+00
GEOMETRIC DEVIATION = 4.03539E+00

TABLE 9.--Continued

VARIANCE OF LOGS = 3.67097E-01

PERCENT TABLE FOR VARIABLE 22 (AA-CU-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.466335E+00	0.292641E+01
75.00	0.910384E+00	0.813549E+01
90.00	0.145245E+01	0.283432E+02
95.00	0.155939E+01	0.362571E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 23 (AA-PB-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-8.400E-02 -	8.267E-02	4	4	5.19	5.19	1.334E+00	5.329E+00
8.267E-02 -	2.493E-01	0	4	0.00	5.19	3.092E+00	3.092E+00
2.493E-01 -	4.160E-01	4	8	5.19	10.39	5.929E+00	6.277E-01
4.160E-01 -	5.827E-01	6	14	7.79	18.18	9.402E+00	1.231E+00
5.827E-01 -	7.493E-01	19	33	24.68	42.86	1.233E+01	3.606E+00
7.493E-01 -	9.160E-01	22	55	28.57	71.43	1.338E+01	5.557E+00
9.160E-01 -	1.083E+00	6	61	7.79	79.22	1.200E+01	3.002E+00
1.083E+00 -	1.249E+00	7	68	9.09	88.31	8.908E+00	4.086E-01
1.249E+00 -	1.416E+00	3	71	3.90	92.21	5.467E+00	1.114E+00
1.416E+00 -	1.583E+00	4	75	5.19	97.40	2.776E+00	5.402E-01
1.583E+00 -	1.749E+00	0	75	0.00	97.40	1.165E+00	1.165E+00
1.749E+00 -	1.916E+00	2	77	2.60	100.00	5.548E-01	3.765E+00
G		0	77	0.00	100.00		
H		0	77				
B		0	77				
TOTALS LESS H AND B		77				7.634E+01	2.944E+01

HISTOGRAM FOR VARIABLE 23 (AA-PB-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(141)

```
9.985E-01 XXXXX
1.466E+00
2.151E+00 XXXXX
3.157E+00 XXXXXXXX
4.634E+00 XXXXXXXXXXXXXXXXXXXXXXXX
6.802E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+00 XXXXXXXX
1.466E+01 XXXXXXXXX
2.151E+01 XXXX
3.157E+01 XXXXX
4.635E+01
6.803E+01 XXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.00000E+00
MAXIMUM ANTILOG      =  8.10000E+01
GEOMETRIC MEAN       =  6.61921E+00
GEOMETRIC DEVIATION  =  2.39593E+00
VARIANCE OF LOGS     =  1.44000E-01
```

TABLE 9.--Continued

PERCENT TABLE FOR VARIABLE 23 (AA-PB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.791002E+00	0.618019E+01
75.00	0.992391E+00	0.982632E+01
90.00	0.132156E+01	0.209681E+02
95.00	0.150559E+01	0.320322E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 24 (AA-ZN-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-4.170E-01	-2.503E-01	31	31	40.26	40.26	5.788E+00	1.098E+02
-2.503E-01	-8.367E-02	0	31	0.00	40.26	7.718E+00	7.718E+00
-8.367E-02	8.300E-02	7	38	9.09	49.35	9.256E+00	5.498E-01
8.300E-02	2.497E-01	0	38	0.00	49.35	9.982E+00	9.982E+00
2.497E-01	4.163E-01	13	51	16.88	66.23	9.682E+00	1.137E+00
4.163E-01	5.830E-01	6	57	7.79	74.03	8.446E+00	7.083E-01
5.830E-01	7.497E-01	7	64	9.09	83.12	6.625E+00	2.117E-02
7.497E-01	9.163E-01	3	67	3.90	87.01	4.674E+00	5.997E-01
9.163E-01	1.083E+00	5	72	6.49	93.51	2.966E+00	1.395E+00
1.083E+00	1.250E+00	4	76	5.19	98.70	1.692E+00	3.147E+00
1.250E+00	1.416E+00	1	77	1.30	100.00	1.527E+00	1.817E-01
	G	0	77	0.00	100.00		
	H	0	77				
	B	0	77				
TOTALS LESS H AND B		77				6.836E+01	1.353E+02

HISTOGRAM FOR VARIABLE 24 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 4.638E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.808E-01
 9.992E-01 XXXXXXXXX
 1.467E+00
 2.153E+00 XXXXXXXXXXXXXXXX
 3.160E+00 XXXXXXXX
 4.638E+00 XXXXXXXXX
 6.808E+00 XXXX
 9.992E+00 XXXXXX
 1.467E+01 XXXXX
 2.153E+01 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 2.00000E+01
GEOMETRIC MEAN = 1.59116E+00
GEOMETRIC DEVIATION = 3.23132E+00
VARIANCE OF LOGS = 2.59468E-01

PERCENT TABLE FOR VARIABLE 24 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 9.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.958215E-01	0.124687E+01
75.00	0.600859E+00	0.398896E+01
90.00	0.993003E+00	0.984017E+01
95.00	0.113092E+01	0.135182E+02
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 25 (AA-AG-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-1.750E+00 - -1.583E+00	10	10	12.99	12.99	8.773E+00	1.717E-01
-1.583E+00 - -1.417E+00	44	54	57.14	70.13	1.343E+01	6.956E+01
-1.417E+00 - -1.250E+00	4	58	5.19	75.32	1.578E+01	8.796E+00
-1.250E+00 - -1.083E+00	4	62	5.19	80.52	1.423E+01	7.355E+00
-1.083E+00 - -9.167E-01	6	68	7.79	88.31	9.846E+00	1.502E+00
-9.167E-01 - -7.500E-01	1	69	1.30	89.61	5.227E+00	3.419E+00
-7.500E-01 - -5.833E-01	5	74	6.49	96.10	2.129E+00	3.870E+00
-5.833E-01 - -4.167E-01	1	75	1.30	97.40	6.654E-01	1.683E-01
-4.167E-01 - -2.500E-01	1	76	1.30	98.70	1.595E-01	4.430E+00
-2.500E-01 - -8.333E-02	0	76	0.00	98.70	2.932E-02	2.932E-02
-8.333E-02 - 8.334E-02	1	77	1.30	100.00	4.618E-03	2.146E+02
G	0	77	0.00	100.00		
H	0	77				
B	0	77				
TOTALS LESS H AND B	77				7.028E+01	3.139E+02

HISTOGRAM FOR VARIABLE 25 (AA-AG-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(145)

```
2.154E-02 XXXXXXXXXXXXX
3.162E-02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E-02 XXXXX
6.813E-02 XXXXX
1.000E-01 XXXXXXXX
1.468E-01 X
2.154E-01 XXXXXX
3.162E-01 X
4.642E-01 X
6.813E-01
1.000E+00 X
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG     = 2.50000E-02
MAXIMUM ANTILOG     = 9.40000E-01
GEOMETRIC MEAN      = 4.83986E-02
GEOMETRIC DEVIATION = 2.09056E+00
VARIANCE OF LOGS    = 1.02568E-01
```

PERCENT TABLE FOR VARIABLE 25 (AA-AG-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 9.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.147538E+01	0.334674E-01
75.00	-0.126042E+01	0.549015E-01
90.00	-0.739998E+00	0.181971E+00
95.00	-0.611664E+00	0.244532E+00
99.00	0.100000E+36	0.100000E+36

TABLE 9.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 26 (AA-CD-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-1.750E+00 - -1.583E+00	53	53	68.83	68.83	1.749E+01	7.213E+01
-1.583E+00 - -1.417E+00	12	65	15.58	84.42	2.385E+01	5.887E+00
-1.417E+00 - -1.250E+00	2	67	2.60	87.01	1.781E+01	1.403E+01
-1.250E+00 - -1.083E+00	5	72	6.49	93.51	7.275E+00	7.116E-01
-1.083E+00 - -9.167E-01	4	76	5.19	98.70	1.623E+00	3.479E+00
-9.167E-01 - -7.500E-01	0	76	0.00	98.70	1.973E-01	1.973E-01
-7.500E-01 - -5.833E-01	0	76	0.00	98.70	0.000E+00	0.000E+00
-5.833E-01 - -4.167E-01	1	77	1.30	100.00	1.350E-02	7.206E+01
G	0	77	0.00	100.00		
H	0	77				
B	0	77				
TOTALS LESS H AND B	77				6.825E+01	1.685E+02

HISTOGRAM FOR VARIABLE 25 (AA-CD-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E-02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E-02 XXXXXXXXXXXXXXXX
4.642E-02 XXX
6.813E-02 XXXXXX
1.000E-01 XXXXX
1.468E-01
2.154E-01
3.162E-01 X
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.50000E-02
MAXIMUM ANTILOG = 3.60000E-01
GEOMETRIC MEAN = 3.18073E-02
GEOMETRIC DEVIATION = 1.61847E+00
VARIANCE OF LOGS = 4.37247E-02

PERCENT TABLE FOR VARIABLE 26 (AA-CD-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE

TABLE 9.--Continued

50.00	0.100000E+36	0.100000E+36
75.00	-0.151736E+01	0.303836E-01
90.00	-0.117333E+01	0.670915E-01
95.00	-0.103542E+01	0.921690E-01
99.00	0.100000E+36	0.100000E+36

TABLE 10.--Analytical Values of Rock Samples Containing Visible MoS_2

Sample	LATITUDE	LONGITUD	S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-AG	S-B	S-BA	S-BE
TEM0203R	42 43 8	109 11 44	3.0	.50	1.5	.30	300	.5	<10	500	1.0
TEM0204R	42 43 8	109 11 44	5.0	1.50	1.5	.50	500	N	10	150	1.0
TEM0205R	42 43 8	109 11 44	1.5	1.00	.5	.30	200	N	<10	70	<1.0
TEM0221R	42 43 9	109 11 35	2.0	.50	1.5	.20	300	N	<10	200	1.5
TEM0230R	42 43 34	109 11 56	5.0	1.50	3.0	.50	1,000	N	<10	300	2.0
TEM0247R	42 42 16	109 10 20	5.0	.70	1.5	.50	300	N	<10	1,000	1.0
TEM0306R	42 43 11	109 11 55	5.0	.20	.1	.20	300	N	<10	1,000	N
TEM0334R	42 42 50	109 10 54	.2	.03	.3	.03	30	N	N	1,500	N
TEM0343R	42 43 33	109 11 30	2.0	.03	.2	.05	70	1.5	<10	20	N
TEM0002R	42 43 9	109 11 53	2.0	.03	.2	.10	100	N	<10	2,000	N
TEM0009R	42 43 20	109 12 36	1.5	.50	1.0	.20	200	N	<10	1,000	1.5
TEM0021R	42 44 15	109 11 54	1.0	.30	1.0	.20	300	N	N	700	1.0

TABLE 10.--Continued

Sample	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB	S-SC	S-SR	S-V
TEM0203R	10	15	100	150	1,500	50	30	<5	200	50
TEM0204R	15	200	20	300	15	150	15	7	100	50
TEM0205R	7	10	<5	30	20	20	30	5	N	50
TEM0221R	7	N	20	<20	150	10	20	7	150	30
TEM0230R	10	20	30	50	10	30	30	20	500	100
TEM0247R	5	N	20	N	>2,000	30	50	7	300	70
TEM0308R	5	N	70	N	2,000	5	30	N	N	15
TEM0334R	<5	N	5	N	150	5	50	N	300	<10
TEMJ343R	7	N	70	<20	>2,000	50	200	N	N	<10
TEM0002R	7	N	30	N	1,500	5	50	N	300	50
TEM0009R	7	N	150	20	300	5	50	7	500	15
TEM0021R	5	N	<5	100	10	5	50	<5	200	20

TABLE 10.--Continued

Sample	S-Y	S-ZR	AA-AU-P	AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P	AA-BI-P
TEM0203R	15	70	<.05	27	7	3	.28	N	N
TEM0204R	30	300	<.05	3	3	11	<.05	.08	N
TEM0205R	10	200	<.05	N	1	4	.13	.05	N
TEM0221R	10	30	<.05	7	4	2	.06	.15	N
TEM0230R	50	100	<.05	14	6	6	<.05	.12	N
TEM0247R	N	50	.11	5	14	3	.13	.13	N
TEM0308R	N	30	.26	8	5	2	.32	.14	1
TEM0334R	N	10	.23	1	11	2	.11	.10	1
TEM0343R	N	<10	.26	28	180	3	<.05	.15	1
TEM0002R	N	70	.23	28	13	3	.10	.15	1
TEM0009R	<10	100	.18	39	6	3	.07	.20	N
TEM0021R	<10	50	.09	2	15	4	<.05	.18	1

TABLE 11--Graphical Analyses of Rock Samples Containing Visible MoS_2

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

TITLE	INPUT ID	N	M	***** OPTIONS ****
bridger selected rock	-bridger -	12	27	1 0 0 0 2 1 0 0 0 0

NUMBER OF SELECTED VARIABLES = 25

SELECTED VARIABLE INDICES

3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22
23	24	25	26	27					

SELECTED VARIABLE IDENTIFIERS

S-FE%	S-MG%	S-CA%	S-TI%	S-MN	S-BA	S-BE	S-CO	S-CR	S-CU
S-LA	S-MO	S-NI	S-PB	S-SC	S-SR	S-V	S-Y	S-ZR	AA-AU-P
AA-CU-P	AA-PB-P	AA-ZN-P	AA-AG-P	AA-CD-P					

SELECTED ROW PAIRS

1 TO 12

LOWER BOUNDARIES OF THE LOWEST CLASSES

-0.75000	-1.58400	-1.08400	-1.58400	1.41600	1.25000	-0.41700	0.41600	0.58300	0.41600
0.91600	0.91600	0.58300	1.08300	0.25000	1.58300	0.75000	0.58300	0.75000	-1.58400
-0.41700	-0.08400	0.25000	-1.58400	-1.75000					

CLASS INTERVALS

0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667					

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 3 (S-FE%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-7.500E-01	-5.833E-01	1	1	8.33	8.33	1.024E-01	7.873E+00
-5.833E-01	-4.167E-01	0	1	0.00	8.33	2.556E-01	2.556E-01
-4.167E-01	-2.500E-01	0	1	0.00	8.33	5.391E-01	5.391E-01
-2.500E-01	-8.333E-02	0	1	0.00	8.33	9.600E-01	9.600E-01
-8.333E-02	8.333E-02	1	2	8.33	16.67	1.444E+00	1.364E-01
8.333E-02	2.500E-01	2	4	16.67	33.33	1.834E+00	1.507E-02
2.500E-01	4.167E-01	3	7	25.00	58.33	1.967E+00	5.426E-01
4.167E-01	5.833E-01	1	8	8.33	66.67	1.782E+00	3.429E-01
5.833E-01	7.500E-01	4	12	33.33	100.00	3.069E+00	2.822E-01
	G	0	12	0.00	100.00		
	H	0	12				
	B	0	12				
TOTALS LESS H AND B		12				1.195E+01	1.095E+01

HISTOGRAM FOR VARIABLE 3 (S-FE%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
2.154E-01 XXXXXXXX
3.162E-01
4.642E-01
6.813E-01
1.000E+00 XXXXXXXX
1.468E+00 XXXXXXXXXXXXXXXX
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XXXXXXXX
4.642E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E-01
MAXIMUM ANTILOG      =  5.00000E+00
GEOMETRIC MEAN       =  2.08501E+00
GEOMETRIC DEVIATION  =  2.52657E+00
VARIANCE OF LOGS     =  1.62032E-01
```

PERCENT TABLE FOR VARIABLE 3 (S-FE%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED	DATA VALUE	ANTI LOG OF VALUE

TABLE 11.--Continued

PERCENTILE		
50.00	0.361113E+00	0.229675E+01
75.00	0.100000E+36	0.100000E+36
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 4 (S-MG%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-1.534E+00	-1.417E+00	3	3	25.00	25.00	4.098E-01	1.637E+01
-1.417E+00	-1.251E+00	0	3	0.00	25.00	5.817E-01	5.817E-01
-1.251E+00	-1.084E+00	0	3	0.00	25.00	7.724E-01	7.724E-01
-1.084E+00	-9.173E-01	0	3	0.00	25.00	9.595E-01	9.595E-01
-9.173E-01	-7.507E-01	0	3	0.00	25.00	1.115E+00	1.115E+00
-7.507E-01	-5.840E-01	1	4	8.33	33.33	1.212E+00	3.722E-02
-5.840E-01	-4.173E-01	1	5	8.33	41.67	1.233E+00	4.412E-02
-4.173E-01	-2.507E-01	3	8	25.00	66.67	1.174E+00	2.842E+00
-2.507E-01	-8.400E-02	1	9	8.33	75.00	1.045E+00	1.926E-03
-8.400E-02	8.267E-02	1	10	8.33	83.33	8.703E-01	1.934E-02
8.267E-02	2.493E-01	2	12	16.67	100.00	1.995E+00	1.357E-05
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.137E+01	2.274E+01

HISTOGRAM FOR VARIABLE 4 (S-MG%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
(155)
   3.157E-02 XXXXXXXXXXXXXXXXXXXXXXXX
   4.634E-02
   6.802E-02
   9.985E-02
   1.466E-01
   2.151E-01 XXXXXXXX
   3.157E-01 XXXXXXXX
   4.634E-01 XXXXXXXXXXXXXXXXXXXXXXXX
   6.803E-01 XXXXXXXX
   9.985E-01 XXXXXXXX
   1.466E+00 XXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E-02
MAXIMUM ANTILOG = 1.50000E+00
GEOMETRIC MEAN = 2.87503E-01
GEOMETRIC DEVIATION = 4.40440E+00
VARIANCE OF LOGS = 4.14590E-01

PERCENT TABLE FOR VARIABLE 4 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 11.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.361775E+00	0.434735E+00
75.00	-0.839970E-01	0.824144E+00
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 5 (S-CA%)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-1.084E+00	-9.173E-01	1	1	8.33	8.33	3.469E-01	1.230E+00
-9.173E-01	-7.507E-01	0	1	0.00	8.33	6.181E-01	6.181E-01
-7.507E-01	-5.840E-01	2	3	16.67	25.00	9.684E-01	1.099E+00
-5.840E-01	-4.173E-01	1	4	8.33	33.33	1.334E+00	8.345E-02
-4.173E-01	-2.507E-01	1	5	8.33	41.67	1.615E+00	2.339E-01
-2.507E-01	-8.400E-02	0	5	0.00	41.67	1.718E+00	1.718E+00
-8.400E-02	8.267E-02	2	7	16.67	58.33	1.603E+00	9.566E-02
8.267E-02	2.493E-01	4	11	33.33	91.67	1.323E+00	5.421E+00
2.493E-01	4.160E-01	0	11	0.00	91.67	9.563E-01	9.563E-01
4.160E-01	5.827E-01	1	12	8.33	100.00	1.227E+00	4.187E-02
	G	0	12	0.00	100.00		
	H	0	12				
	B	0	12				
TOTALS LESS H AND B		12				1.171E+01	1.150E+01

HISTOGRAM FOR VARIABLE 5 (S-CA%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.935E-02 XXXXXXXX
 1.466E-01
 2.151E-01 XXXXXXXXXXXXXXXXX
 3.157E-01 XXXXXXXX
 4.634E-01 XXXXXXXX
 6.802E-01
 9.985E-01 XXXXXXXXXXXXXXXXX
 1.466E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 2.151E+00
 3.157E+00 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E-01
MAXIMUM ANTILOG	=	3.00000E+00
GEOMETRIC MEAN	=	6.76036E-01
GEOMETRIC DEVIATION	=	2.89604E+00
VARIANCE OF LOGS	=	2.13263E-01

PERCENT TABLE FOR VARIABLE 5 (S-CA%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

TABLE 11.--Continued

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.939980E-01	0.824142E+00
75.00	0.166002E+00	0.146556E+01
90.00	0.241003E+00	0.174182E+01
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 6 (S-TI%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-1.584E+00 - -1.417E+00	1	1	8.33	8.33	2.722E-01	1.946E+00
-1.417E+00 - -1.251E+00	1	2	8.33	16.67	5.832E-01	2.978E-01
-1.251E+00 - -1.084E+00	0	2	0.00	16.67	1.043E+00	1.043E+00
-1.084E+00 - -9.173E-01	1	3	8.33	25.00	1.558E+00	1.997E-01
-9.173E-01 - -7.507E-01	0	3	0.00	25.00	1.942E+00	1.942E+00
-7.507E-01 - -5.840E-01	4	7	33.33	58.33	2.020E+00	1.940E+00
-5.840E-01 - -4.173E-01	2	9	16.67	75.00	1.755E+00	3.433E-02
-4.173E-01 - -2.507E-01	3	12	25.00	100.00	2.675E+00	3.949E-02
G	0	12	0.00	100.00		
H	0	12				
B	0	12				
TOTALS LESS H AND B	12				1.185E+01	7.443E+00

HISTOGRAM FOR VARIABLE 6 (S-TI%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(159)

```
3.157E-02 XXXXXXXX
4.634E-02 XXXXXXXX
6.802E-02
9.985E-02 XXXXXXXX
1.466E-01
2.151E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E-01 XXXXXXXXXXXXXXXX
4.634E-01 XXXXXXXXXXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	3.00000E-02
MAXIMUM ANTILOG	=	5.00000E-01
GEOMETRIC MEAN	=	1.93173E-01
GEOMETRIC DEVIATION	=	2.45021E+00
VARIANCE OF LOGS	=	1.51480E-01

PERCENT TABLE FOR VARIABLE 6 (S-TI%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE

TABLE 11.--Continued

50.00	-0.667332E+00	0.215114E+00
75.00	-0.417331E+00	0.332533E+00
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 7 (S-MN)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.416E+00 -	1.583E+00	1	1	8.33	8.33	2.328E-01	2.528E+00
1.583E+00 -	1.749E+00	0	1	0.00	8.33	5.023E-01	5.023E-01
1.749E+00 -	1.916E+00	1	2	8.33	16.67	9.138E-01	8.130E-03
1.916E+00 -	2.083E+00	1	3	8.33	25.00	1.402E+00	1.151E-01
2.083E+00 -	2.249E+00	0	3	0.00	25.00	1.813E+00	1.813E+00
2.249E+00 -	2.416E+00	2	5	16.67	41.67	1.977E+00	2.686E-04
2.416E+00 -	2.583E+00	5	10	41.67	83.33	1.818E+00	5.569E+00
2.583E+00 -	2.749E+00	1	11	8.33	91.67	1.410E+00	1.191E-01
2.749E+00 -	2.916E+00	0	11	0.00	91.67	9.217E-01	9.217E-01
2.916E+00 -	3.083E+00	1	12	8.33	100.00	8.785E-01	1.679E-02
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.187E+01	1.159E+01

HISTOGRAM FOR VARIABLE 7 (S-MN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+01 XXXXXXXX
4.634E+01
6.802E+01 XXXXXXXX
9.985E+01 XXXXXXXX
1.466E+02
2.151E+02 XXXXXXXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+02 XXXXXXXX
6.803E+02
9.985E+02 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 2.15810E+02
GEOMETRIC DEVIATION = 2.51594E+00
VARIANCE OF LOGS = 1.60561E-01

PERCENT TABLE FOR VARIABLE 7 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

TABLE 11.--Continued

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.244934E+01	0.231407E+03
75.00	0.254934E+01	0.354271E+03
90.00	0.271600E+01	0.519999E+03
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 8 (S-BA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.250E+00 -	1.417E+00	1	1	8.33	8.33	1.453E-01	5.030E+00
1.417E+00 -	1.583E+00	0	1	0.00	8.33	2.512E-01	2.512E-01
1.583E+00 -	1.750E+00	0	1	0.00	8.33	4.019E-01	4.019E-01
1.750E+00 -	1.917E+00	1	2	8.33	16.67	5.951E-01	2.755E-01
1.917E+00 -	2.083E+00	0	2	0.00	16.67	8.154E-01	8.154E-01
2.083E+00 -	2.250E+00	1	3	8.33	25.00	1.034E+00	1.110E-03
2.250E+00 -	2.417E+00	1	4	8.33	33.33	1.213E+00	3.743E-02
2.417E+00 -	2.583E+00	1	5	8.33	41.67	1.317E+00	7.634E-02
2.583E+00 -	2.750E+00	1	6	8.33	50.00	1.323E+00	7.899E-02
2.750E+00 -	2.917E+00	1	7	8.33	58.33	1.230E+00	4.312E-02
2.917E+00 -	3.083E+00	3	10	25.00	83.33	1.059E+00	3.561E+00
3.083E+00 -	3.250E+00	1	11	8.33	91.67	8.428E-01	2.934E-02
3.250E+00 -	3.417E+00	1	12	8.33	100.00	1.626E+00	2.412E-01
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.185E+01	1.084E+01

HISTOGRAM FOR VARIABLE 8 (S-BA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 2.154E+01 XXXXXXXX
 3.162E+01
 4.642E+01
 6.813E+01 XXXXXXXX
 1.000E+02
 1.468E+02 XXXXXXXX
 2.154E+02 XXXXXXXX
 3.162E+02 XXXXXXXX
 4.642E+02 XXXXXXXX
 6.813E+02 XXXXXXXX
 1.000E+03 XXXXXXXXXXXXXXXXXXXXXXXX
 1.468E+03 XXXXXXXX
 2.154E+03 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.00000E+01
MAXIMUM ANTILOG      =  2.00000E+03
GEOMETRIC MEAN       =  3.92160E+02
GEOMETRIC DEVIATION  =  3.94920E+00
VARIANCE OF LOGS     =  3.55824E-01
```

TABLE 11.--Continued

PERCENT TABLE FOR VARIABLE 8 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.275000E+01	0.562345E+03
75.00	0.302778E+01	0.106606E+04
90.00	0.321667E+01	0.164691E+04
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 9 (S-BE)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	U	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-4.170E-01	- -2.503E-01	4	4	33.33	33.33	1.654E+00	3.326E+00
-2.503E-01	- -8.367E-02	1	5	8.33	41.67	3.235E+00	1.544E+00
-8.367E-02	- 8.300E-02	4	9	33.33	75.00	3.529E+00	6.297E-02
8.300E-02	- 2.497E-01	2	11	16.67	91.67	2.148E+00	1.017E-02
2.497E-01	- 4.163E-01	1	12	8.33	100.00	8.816E-01	1.589E-02
	G	0	12	0.00	100.00		
	H	0	12				
	B	0	12				
TOTALS LESS H AND B		12				1.145E+01	4.959E+00

HISTOGRAM FOR VARIABLE 9 (S-BE)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E-01 XXXXXXXX
9.992E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+00 XXXXXXXXXXXXXXXX
2.153E+00 XXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 2.00000E+00
GEOMETRIC MEAN = 8.73338E-01
GEOMETRIC DEVIATION = 1.63187E+00
VARIANCE OF LOGS = 4.52357E-02

PERCENT TABLE FOR VARIABLE 9 (S-BE) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.419993E-01	0.907822E+00
75.00	0.830010E-01	0.121060E+01
90.00	0.233001E+00	0.171002E+01
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/10/81

FREQUENCY TABLE FOR VARIABLE 10 (S-CO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
4.160E-01 -	5.827E-01	1	1	8.33	8.33	7.107E-01	1.177E-01
5.827E-01 -	7.493E-01	3	4	25.00	33.33	2.832E+00	9.949E-03
7.493E-01 -	9.160E-01	5	9	41.67	75.00	4.554E+00	4.372E-02
9.160E-01 -	1.083E+00	2	11	16.67	91.67	2.965E+00	3.139E-01
1.083E+00 -	1.249E+00	1	12	8.33	100.00	8.644E-01	2.126E-02
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.193E+01	5.066E-01

HISTOGRAM FOR VARIABLE 10 (S-CO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E+00 XXXXXXXX
4.634E+00 XXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+00 XXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXXX
```

(166)

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.50000E+00
MAXIMUM ANTILOG = 1.50000E+01
GEOMETRIC MEAN = 6.86879E+00
GEOMETRIC DEVIATION = 1.47318E+00
VARIANCE OF LOGS = 2.83104E-02

PERCENT TABLE FOR VARIABLE 10 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.816001E+00	0.654637E+01
75.00	0.916001E+00	0.824140E+01
90.00	0.106600E+01	0.116413E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 11 (S-CR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
5.830E-01 - 7.497E-01	8	8	66.67	66.67	1.401E+00	3.109E+01
7.497E-01 - 9.163E-01	0	8	0.00	66.67	1.616E+00	1.616E+00
9.163E-01 - 1.083E+00	1	9	8.33	75.00	1.653E+00	2.582E-01
1.083E+00 - 1.250E+00	1	10	8.33	83.33	1.499E+00	1.660E-01
1.250E+00 - 1.416E+00	1	11	8.33	91.67	1.204E+00	3.464E-02
1.416E+00 - 1.583E+00	0	11	0.00	91.67	8.576E-01	8.576E-01
1.583E+00 - 1.750E+00	0	11	0.00	91.67	5.413E-01	5.413E-01
1.750E+00 - 1.916E+00	0	11	0.00	91.67	3.028E-01	3.028E-01
1.916E+00 - 2.083E+00	0	11	0.00	91.67	1.501E-01	1.501E-01
2.083E+00 - 2.250E+00	0	11	0.00	91.67	6.596E-02	6.596E-02
2.250E+00 - 2.416E+00	1	12	8.33	100.00	3.822E-02	2.420E+01
G	0	12	0.00	100.00		
H	0	12				
B	0	12				
TOTALS LESS H AND B	12				9.329E+00	5.929E+01

HISTOGRAM FOR VARIABLE 11 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00
9.992E+00 XXXXXXXX
1.467E+01 XXXXXXXX
2.153E+01 XXXXXXXX
3.160E+01
4.639E+01
6.808E+01
9.992E+01
1.467E+02
2.153E+02 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E+00
MAXIMUM ANTILOG      =  2.00000E+02
GEOMETRIC MEAN       =  8.86120E+00
GEOMETRIC DEVIATION  =  3.00137E+00
VARIANCE OF LOGS     =  2.27834E-01
```

PERCENT TABLE FOR VARIABLE 11 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 11.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE OF THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.100000E+36	0.100000E+36
75.00	0.108300E+01	0.121060E+02
90.00	0.138300E+01	0.241547E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 12 (S-CU)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
4.160E-01	-	5.827E-01	2	2	16.67	16.67	4.118E-01	6.125E+00
5.827E-01	-	7.493E-01	1	3	8.33	25.00	6.336E-01	2.118E-01
7.493E-01	-	9.160E-01	0	3	0.00	25.00	8.905E-01	8.905E-01
9.160E-01	-	1.083E+00	0	3	0.00	25.00	1.143E+00	1.143E+00
1.083E+00	-	1.249E+00	0	3	0.00	25.00	1.341E+00	1.341E+00
1.249E+00	-	1.416E+00	3	6	25.00	50.00	1.436E+00	1.703E+00
1.416E+00	-	1.583E+00	2	8	16.67	66.67	1.405E+00	2.519E-01
1.583E+00	-	1.749E+00	0	8	0.00	66.67	1.256E+00	1.256E+00
1.749E+00	-	1.916E+00	2	10	16.67	83.33	1.025E+00	9.267E-01
1.916E+00	-	2.083E+00	1	11	8.33	91.67	7.646E-01	7.249E-02
2.083E+00	-	2.249E+00	1	12	8.33	100.00	1.202E+00	3.381E-02
	G		0	12	0.00	100.00		
	H		0	12				
	B		0	12				
TOTALS LESS H AND B			12				1.151E+01	1.395E+01

HISTOGRAM FOR VARIABLE 12 (S-CU)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 3.157E+00 XXXXXXXXXXXXXXXX
 4.634E+00 XXXXXXXX
 6.802E+00
 9.985E+00
 1.466E+01
 2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXX
 3.157E+01 XXXXXXXXXXXXXXXX
 4.634E+01
 6.803E+01 XXXXXXXXXXXXXXXX
 9.935E+01 XXXXXXXX
 1.466E+02 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.50000E+00
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 2.37626E+01
GEOMETRIC DEVIATION = 3.56302E+00
VARIANCE OF LOGS = 3.04503E-01

PERCENT TABLE FOR VARIABLE 12 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 11.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.141600E+01	0.260617E+02
75.00	0.174934E+01	0.561482E+02
90.00	0.204934E+01	0.112031E+03
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 13 (S-LA)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	4	4	33.33	33.33	1.050E+00	8.288E+00
1.083E+00 -	1.249E+00	2	6	16.67	50.00	1.317E+00	3.544E-01
1.249E+00 -	1.416E+00	1	7	8.33	58.33	1.491E+00	1.617E-01
1.416E+00 -	1.583E+00	1	8	8.33	66.67	1.524E+00	1.802E-01
1.583E+00 -	1.749E+00	1	9	8.33	75.00	1.407E+00	1.176E-01
1.749E+00 -	1.916E+00	0	9	0.00	75.00	1.172E+00	1.172E+00
1.916E+00 -	2.083E+00	1	10	8.33	83.33	8.818E-01	1.584E-02
2.083E+00 -	2.249E+00	1	11	8.33	91.67	5.990E-01	2.685E-01
2.249E+00 -	2.416E+00	0	11	0.00	91.67	3.673E-01	3.673E-01
2.416E+00 -	2.583E+00	1	12	8.33	100.00	3.796E-01	1.014E+00
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.019E+01	1.194E+01

(171)

HISTOGRAM FOR VARIABLE 13 (S-LA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 1.466E+01 XXXXXXXXXXXXXXXX
 2.151E+01 XXXXXXXX
 3.157E+01 XXXXXXXX
 4.634E+01 XXXXXXXX
 6.802E+01
 9.985E+01 XXXXXXXX
 1.466E+02 XXXXXXXX
 2.151E+02
 3.157E+02 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	1.00000E+01
MAXIMUM ANTILOG	=	3.00000E+02
GEOMETRIC MEAN	=	2.83063E+01
GEOMETRIC DEVIATION	=	3.30454E+00
VARIANCE OF LOGS	=	2.69476E-01

PERCENT TABLE FOR VARIABLE 13 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

TABLE 11.--Continued

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.124933E+01	0.177555E+02
75.00	0.174934E+01	0.561481E+02
90.00	0.221600E+01	0.164438E+03
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 14 (S-MO)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
9.160E-01 -	1.083E+00	2	2	16.67	16.67	3.316E-01	8.393E+00
1.083E+00 -	1.249E+00	1	3	8.33	25.00	4.083E-01	8.575E-01
1.249E+00 -	1.416E+00	1	4	8.33	33.33	4.888E-01	5.345E-01
1.416E+00 -	1.583E+00	0	4	0.00	33.33	5.691E-01	5.691E-01
1.583E+00 -	1.749E+00	0	4	0.00	33.33	6.443E-01	6.443E-01
1.749E+00 -	1.916E+00	0	4	0.00	33.33	7.093E-01	7.093E-01
1.916E+00 -	2.083E+00	0	4	0.00	33.33	7.594E-01	7.594E-01
2.083E+00 -	2.249E+00	2	6	16.67	50.00	7.905E-01	1.850E+00
2.249E+00 -	2.416E+00	0	6	0.00	50.00	8.003E-01	8.003E-01
2.416E+00 -	2.583E+00	1	7	8.33	58.33	7.879E-01	5.711E-02
2.583E+00 -	2.749E+00	0	7	0.00	58.33	7.543E-01	7.543E-01
2.749E+00 -	2.916E+00	0	7	0.00	58.33	7.022E-01	7.022E-01
2.916E+00 -	3.083E+00	0	7	0.00	58.33	6.357E-01	6.357E-01
3.083E+00 -	3.249E+00	2	9	16.67	75.00	5.596E-01	3.708E+00
3.249E+00 -	3.416E+00	1	10	8.33	83.33	4.790E-01	5.665E-01
3.416E+00 -	3.583E+00	2	12	16.67	100.00	1.633E+00	8.244E-02
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.105E+01	2.162E+01

HISTOGRAM FOR VARIABLE 14 (S-MO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E+00 XXXXXXXXXXXXXXXX
 1.466E+01 XXXXXXXX
 2.151E+01 XXXXXXXX
 3.157E+01
 4.634E+01
 6.802E+01
 9.985E+01
 1.466E+02 XXXXXXXXXXXXXXXX
 2.151E+02
 3.157E+02 XXXXXXXX
 4.635E+02
 6.803E+02
 9.985E+02
 1.466E+03 XXXXXXXXXXXXXXXX
 2.151E+03 XXXXXXXX
 3.157E+03 XXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

TABLE 11.--Continued

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 2.85714E+03
GEOMETRIC MEAN = 2.10196E+02
GEOMETRIC DEVIATION = 9.90245E+00
VARIANCE OF LOGS = 9.91503E-01

PERCENT TABLE FOR VARIABLE 14 (S-MO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.224934E+01	0.177556E+03
75.00	0.324934E+01	0.177557E+04
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 15 (S-NI)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
5.830E-01	-	7.497E-01	5	5	41.67	41.67	9.173E-01	1.817E+01
7.497E-01	-	9.163E-01	0	5	0.00	41.67	1.211E+00	1.211E+00
9.163E-01	-	1.083E+00	1	6	8.33	50.00	1.440E+00	1.342E-01
1.083E+00	-	1.250E+00	0	6	0.00	50.00	1.543E+00	1.543E+00
1.250E+00	-	1.416E+00	1	7	8.33	58.33	1.490E+00	1.609E-01
1.416E+00	-	1.583E+00	2	9	16.67	75.00	1.296E+00	3.822E-01
1.583E+00	-	1.750E+00	2	11	16.67	91.67	1.016E+00	9.521E-01
1.750E+00	-	1.916E+00	0	11	0.00	91.67	7.181E-01	7.181E-01
1.916E+00	-	2.083E+00	0	11	0.00	91.67	4.572E-01	4.572E-01
2.083E+00	-	2.250E+00	1	12	8.33	100.00	5.025E-01	4.925E-01
	G		0	12	0.00	100.00		
	H		0	12				
	B		0	12				
TOTALS LESS H AND B			12				1.059E+01	2.422E+01

HISTOGRAM FOR VARIABLE 15 (S-NI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00
9.992E+00 XXXXXXXX
1.467E+01
2.153E+01 XXXXXXXX
3.160E+01 XXXXXXXXXXXXXXXX
4.638E+01 XXXXXXXXXXXXXXXX
6.808E+01
9.992E+01
1.467E+02 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 1.56199E+01
GEOMETRIC DEVIATION = 3.26788E+00
VARIANCE OF LOGS = 2.64470E-01

PERCENT TABLE FOR VARIABLE 15 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

TABLE 11.--Continued

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.108300E+01	0.121060E+02
75.00	0.158300E+01	0.382827E+02
90.00	0.173300E+01	0.540757E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 16 (S-PB)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.083E+00 -	1.250E+00	1	1	8.33	8.33	8.883E-01	1.404E-02
1.250E+00 -	1.416E+00	1	2	8.33	16.67	1.814E+00	3.654E-01
1.416E+00 -	1.583E+00	4	6	33.33	50.00	2.634E+00	7.088E-01
1.583E+00 -	1.750E+00	5	11	41.67	91.67	2.718E+00	1.915E+00
1.750E+00 -	1.916E+00	0	11	0.00	91.67	1.995E+00	1.995E+00
1.916E+00 -	2.083E+00	0	11	0.00	91.67	1.041E+00	1.041E+00
2.083E+00 -	2.250E+00	0	11	0.00	91.67	3.858E-01	3.858E-01
2.250E+00 -	2.416E+00	1	12	8.33	100.00	1.234E-01	6.225E+00
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.160E+01	1.265E+01

(177)

HISTOGRAM FOR VARIABLE 16 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 1.467E+01 XXXXXXXX
 2.153E+01 XXXXXXXX
 3.160E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 4.638E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 6.808E+01
 9.992E+01
 1.467E+02
 2.153E+02 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  1.50000E+01
MAXIMUM ANTILOG      =  2.00000E+02
GEOMETRIC MEAN       =  3.96695E+01
GEOMETRIC DEVIATION  =  1.91077E+00
VARIANCE OF LOGS     =  7.90738E-02
```

PERCENT TABLE FOR VARIABLE 16 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE

TABLE 11.--Continued

50.00	0.158300E+01	0.382826E+02
75.00	0.168300E+01	0.481949E+02
90.00	0.174300E+01	0.553352E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 17 (S-SC)

LOG LIMITS LOWER	-	UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N		0	0	0.00	0.00		
	L		0	0	0.00	0.00		
	T		0	0	0.00	0.00		
2.500E-01	-	4.167E-01	4	4	33.33	33.33	1.378E+00	4.991E+00
4.167E-01	-	5.833E-01	2	6	16.67	50.00	2.351E+00	5.227E-02
5.833E-01	-	7.500E-01	1	7	8.33	58.33	2.828E+00	1.182E+00
7.500E-01	-	9.167E-01	4	11	33.33	91.67	2.401E+00	1.066E+00
9.167E-01	-	1.083E+00	0	11	0.00	91.67	1.437E+00	1.437E+00
1.083E+00	-	1.250E+00	0	11	0.00	91.67	6.065E-01	6.065E-01
1.250E+00	-	1.417E+00	1	12	8.33	100.00	2.245E-01	2.678E+00
	G		0	12	0.00	100.00		
	H		0	12				
	B		0	12				
TOTALS LESS H AND B			12				1.123E+01	1.201E+01

HISTOGRAM FOR VARIABLE 17 (S-SC)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(179)

```
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XXXXXXXXXXXXXXXX
4.642E+00 XXXXXXXX
6.813E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+01
1.468E+01
2.154E+01 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  2.50000E+00
MAXIMUM ANTILOG      =  2.00000E+01
GEOMETRIC MEAN       =  4.69560E+00
GEOMETRIC DEVIATION  =  1.89621E+00
VARIANCE OF LOGS     =  7.72205E-02
```

PERCENT TABLE FOR VARIABLE 17 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.583334E+00	0.383119E+01
75.00	0.833334E+00	0.681294E+01

TABLE 11.--Continued

90.00	0.908335E+00	0.809720E+01
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 18 (S-SR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
1.583E+00 -	1.750E+00	3	3	25.00	25.00	7.041E-01	7.487E+00
1.750E+00 -	1.916E+00	0	3	0.00	25.00	1.231E+00	1.231E+00
1.916E+00 -	2.083E+00	1	4	8.33	33.33	1.770E+00	3.352E-01
2.083E+00 -	2.250E+00	1	5	8.33	41.67	2.093E+00	5.705E-01
2.250E+00 -	2.416E+00	2	7	16.67	58.33	2.034E+00	5.606E-04
2.416E+00 -	2.583E+00	3	10	25.00	83.33	1.625E+00	1.163E+00
2.583E+00 -	2.750E+00	2	12	16.67	100.00	2.030E+00	4.418E-04
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.149E+01	1.079E+01

HISTOGRAM FOR VARIABLE 18 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(181)

```
4.639E+01 XXXXXXXXXXXXXXXXXXXXXXXX
6.308E+01
9.992E+01 XXXXXXXX
1.467E+02 XXXXXXXX
2.153E+02 XXXXXXXXXXXXXXXX
3.160E+02 XXXXXXXXXXXXXXXXXXXXXXXX
4.638E+02 XXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E+01
MAXIMUM ANTILOG      =  5.00000E+02
GEOMETRIC MEAN       =  1.68021E+02
GEOMETRIC DEVIATION  =  2.36331E+00
VARIANCE OF LOGS     =  1.39517E-01
```

PERCENT TABLE FOR VARIABLE 18 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.233300E+01	0.215279E+03
75.00	0.252745E+01	0.336858E+03

TABLE 11.--Continued

90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 19 (S-V)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
7.500E-01 -	9.167E-01	2	2	16.67	16.67	5.641E-01	3.654E+00
9.167E-01 -	1.083E+00	0	2	0.00	16.67	1.031E+00	1.031E+00
1.083E+00 -	1.250E+00	2	4	16.67	33.33	1.564E+00	1.216E-01
1.250E+00 -	1.417E+00	1	5	8.33	41.67	1.968E+00	4.761E-01
1.417E+00 -	1.583E+00	1	6	8.33	50.00	2.055E+00	5.413E-01
1.583E+00 -	1.750E+00	4	10	33.33	83.33	1.780E+00	2.770E+00
1.750E+00 -	1.917E+00	1	11	8.33	91.67	1.279E+00	6.090E-02
1.917E+00 -	2.083E+00	1	12	8.33	100.00	1.367E+00	9.845E-02
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.161E+01	8.754E+00

HISTOGRAM FOR VARIABLE 19 (S-V)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.813E+00 XXXXXXXXXXXXXXXX
1.000E+01
1.468E+01 XXXXXXXXXXXXXXXX
2.154E+01 XXXXXXXX
3.162E+01 XXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXX
1.000E+02 XXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 2.85184E+01
GEOMETRIC DEVIATION = 2.41377E+00
VARIANCE OF LOGS = 1.46457E-01

PERCENT TABLE FOR VARIABLE 19 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE

TABLE 11.--Continued

50.00	0.158333E+01	0.383120E+02
75.00	0.170834E+01	0.510899E+02
90.00	0.188334E+01	0.764426E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 20 (S-Y)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
5.830E-01 -	7.497E-01	5	5	41.67	41.67	1.613E+00	7.115E+00
7.497E-01 -	9.163E-01	2	7	16.67	58.33	2.197E+00	1.761E-02
9.163E-01 -	1.083E+00	2	9	16.67	75.00	2.346E+00	5.106E-02
1.083E+00 -	1.250E+00	1	10	8.33	83.33	1.965E+00	4.737E-01
1.250E+00 -	1.416E+00	0	10	0.00	83.33	1.290E+00	1.290E+00
1.416E+00 -	1.583E+00	1	11	8.33	91.67	6.641E-01	1.699E-01
1.583E+00 -	1.750E+00	1	12	8.33	100.00	3.786E-01	1.020E+00
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.045E+01	1.014E+01

HISTOGRAM FOR VARIABLE 20 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00 XXXXXXXXXXXXXXXX
9.992E+00 XXXXXXXXXXXXXXXX
1.467E+01 XXXXXXXX
2.153E+01
3.160E+01 XXXXXXXX
4.638E+01 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E+00
MAXIMUM ANTILOG      =  5.00000E+01
GEOMETRIC MEAN       =  9.15031E+00
GEOMETRIC DEVIATION  =  2.16000E+00
VARIANCE OF LOGS     =  1.11859E-01
```

PERCENT TABLE FOR VARIABLE 20 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.833000E+00	0.680770E+01
75.00	0.108300E+01	0.121060E+02

TABLE 11.--Continued

90.00	0.151634E+01	0.328349E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 21 (S-ZR)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
7.500E-01 -	9.167E-01	1	1	8.33	8.33	2.983E-01	1.651E+00
9.167E-01 -	1.083E+00	1	2	8.33	16.67	5.351E-01	4.039E-01
1.083E+00 -	1.250E+00	0	2	0.00	16.67	8.505E-01	8.505E-01
1.250E+00 -	1.417E+00	0	2	0.00	16.67	1.198E+00	1.198E+00
1.417E+00 -	1.583E+00	2	4	16.67	33.33	1.495E+00	1.705E-01
1.583E+00 -	1.750E+00	2	6	16.67	50.00	1.654E+00	7.259E-02
1.750E+00 -	1.917E+00	2	8	16.67	66.67	1.620E+00	8.890E-02
1.917E+00 -	2.083E+00	2	10	16.67	83.33	1.407E+00	2.498E-01
2.083E+00 -	2.250E+00	0	10	0.00	83.33	1.083E+00	1.083E+00
2.250E+00 -	2.417E+00	1	11	8.33	91.67	7.383E-01	9.276E-02
2.417E+00 -	2.583E+00	1	12	8.33	100.00	8.717E-01	1.889E-02
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.175E+01	5.879E+00

HISTOGRAM FOR VARIABLE 21 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
6.313E+00 XXXXXXXX
1.000E+01 XXXXXXXX
1.468E+01
2.154E+01
3.162E+01 XXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXX
1.000E+02 XXXXXXXXXXXXXXXXX
1.468E+02
2.154E+02 XXXXXXXX
3.162E+02 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 7.00000E+00
MAXIMUM ANTILOG = 3.00000E+02
GEOMETRIC MEAN = 5.27395E+01
GEOMETRIC DEVIATION = 2.99835E+00
VARIANCE OF LOGS = 2.27417E-01

PERCENT TABLE FOR VARIABLE 21 (S-ZR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE

TABLE 11.--Continued

IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.175000E+01	0.562344E+02
75.00	0.200000E+01	0.100001E+03
90.00	0.235000E+01	0.223874E+03
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 22 (AA-AU-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-1.584E+00 - -1.417E+00	5	5	41.67	41.67	1.023E+00	1.547E+01
-1.417E+00 - -1.251E+00	0	5	0.00	41.67	1.529E+00	1.529E+00
-1.251E+00 - -1.084E+00	0	5	0.00	41.67	1.915E+00	1.915E+00
-1.084E+00 - -9.173E-01	2	7	16.67	58.33	2.007E+00	2.677E-05
-9.173E-01 - -7.507E-01	0	7	0.00	58.33	1.762E+00	1.762E+00
-7.507E-01 - -5.840E-01	5	12	41.67	100.00	2.771E+00	1.794E+00
G	0	12	0.00	100.00		
H	0	12				
B	0	12				
TOTALS LESS H AND B	12				1.101E+01	2.247E+01

HISTOGRAM FOR VARIABLE 22 (AA-AU-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(189)

```
3.157E-02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E-02
6.802E-02
9.985E-02 XXXXXXXXXXXXXXXXX
1.466E-01
2.151E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.50000E-02
MAXIMUM ANTILOG = 2.60000E-01
GEOMETRIC MEAN = 9.12825E-02
GEOMETRIC DEVIATION = 2.46953E+00
VARIANCE OF LOGS = 1.54146E-01

PERCENT TABLE FOR VARIABLE 22 (AA-AU-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.116733E+01	0.680248E-01
75.00	0.100000E+36	0.100000E+36
90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 23 (AA-CU-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-4.170E-01	-2.503E-01	1	1	8.33	8.33	2.193E-01	2.780E+00
-2.503E-01	-8.367E-02	0	1	0.00	8.33	3.508E-01	3.508E-01
-8.367E-02	8.300E-02	1	2	8.33	16.67	5.221E-01	4.375E-01
8.300E-02	2.497E-01	0	2	0.00	16.67	7.228E-01	7.228E-01
2.497E-01	4.163E-01	1	3	8.33	25.00	9.308E-01	5.151E-03
4.163E-01	5.830E-01	1	4	8.33	33.33	1.115E+00	1.185E-02
5.830E-01	7.497E-01	1	5	8.33	41.67	1.242E+00	4.728E-02
7.497E-01	9.163E-01	2	7	16.67	58.33	1.288E+00	3.940E-01
9.163E-01	1.083E+00	0	7	0.00	58.33	1.242E+00	1.242E+00
1.083E+00	1.250E+00	1	8	8.33	66.67	1.114E+00	1.157E-02
1.250E+00	1.416E+00	0	8	0.00	66.67	9.290E-01	9.290E-01
1.416E+00	1.583E+00	3	11	25.00	91.67	7.209E-01	7.205E+00
1.583E+00	1.750E+00	1	12	8.33	100.00	1.346E+00	8.873E-02
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.174E+01	1.423E+01

HISTOGRAM FOR VARIABLE 23 (AA-CU-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 4.638E-01 XXXXXXXX
 6.808E-01
 9.992E-01 XXXXXXXX
 1.467E+00
 2.153E+00 XXXXXXXX
 3.160E+00 XXXXXXXX
 4.638E+00 XXXXXXXX
 6.808E+00 XXXXXXXXXXXXXXXX
 9.992E+00
 1.467E+01 XXXXXXXX
 2.153E+01
 3.160E+01 XXXXXXXXXXXXXXXXXXXXXXXX
 4.638E+01 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```
MINIMUM ANTILOG      =  5.00000E-01
MAXIMUM ANTILOG      =  3.90000E+01
GEOMETRIC MEAN       =  6.79615E+00
GEOMETRIC DEVIATION  =  4.14711E+00
VARIANCE OF LOGS     =  3.81609E-01
```

TABLE 11.--Continued

PERCENT TABLE FOR VARIABLE 23 (AA-CU-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.833003E+00	0.680773E+01
75.00	0.136078E+01	0.229499E+02
90.00	0.156078E+01	0.363732E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 24 (AA-PB-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00		
-8.400E-02 -	8.267E-02	1	1	8.33	8.33	3.578E-01	1.152E+00
8.267E-02 -	2.493E-01	0	1	0.00	8.33	5.734E-01	5.734E-01
2.493E-01 -	4.160E-01	0	1	0.00	8.33	8.355E-01	8.355E-01
4.160E-01 -	5.827E-01	1	2	8.33	16.67	1.107E+00	1.034E-02
5.827E-01 -	7.493E-01	2	4	16.67	33.33	1.334E+00	3.328E-01
7.493E-01 -	9.160E-01	3	7	25.00	58.33	1.461E+00	1.621E+00
9.160E-01 -	1.083E+00	1	8	8.33	66.67	1.456E+00	1.426E-01
1.083E+00 -	1.249E+00	3	11	25.00	91.67	1.319E+00	2.144E+00
1.249E+00 -	1.416E+00	0	11	0.00	91.67	1.086E+00	1.086E+00
1.416E+00 -	1.583E+00	0	11	0.00	91.67	8.137E-01	8.137E-01
1.583E+00 -	1.749E+00	0	11	0.00	91.67	5.542E-01	5.542E-01
1.749E+00 -	1.916E+00	0	11	0.00	91.67	3.433E-01	3.433E-01
1.916E+00 -	2.083E+00	0	11	0.00	91.67	1.933E-01	1.933E-01
2.083E+00 -	2.249E+00	0	11	0.00	91.67	9.900E-02	9.900E-02
2.249E+00 -	2.416E+00	1	12	8.33	100.00	7.694E-02	1.107E+01
G		0	12	0.00	100.00		
H		0	12				
B		0	12				
TOTALS LESS H AND B		12				1.161E+01	2.098E+01

HISTOGRAM FOR VARIABLE 24 (AA-PB-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
 9.985E-01 XXXXXXXX
 1.466E+00
 2.151E+00
 3.157E+00 XXXXXXXX
 4.634E+00 XXXXXXXXXXXXXXXX
 6.802E+00 XXXXXXXXXXXXXXXXXXXXXXXX
 9.985E+00 XXXXXXXX
 1.466E+01 XXXXXXXXXXXXXXXXXXXXXXXX
 2.151E+01
 3.157E+01
 4.635E+01
 6.803E+01
 9.985E+01
 1.466E+02
 2.151E+02 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+00
MAXIMUM ANTILOG = 1.80000E+02

TABLE 11.--Continued

GEOMETRIC MEAN = 8.11643E+00
GEOMETRIC DEVIATION = 3.45487E+00
VARIANCE OF LOGS = 2.89909E-01

PERCENT TABLE FOR VARIABLE 24 (AA-PB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.860446E+00	0.725181E+01
75.00	0.113822E+01	0.137475E+02
90.00	0.123822E+01	0.173071E+02
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 25 (AA-ZN-P)

LOG LIMITS LOWER	- UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
2.500E-01 -	4.167E-01	3	3	25.00	25.00	2.473E+00	1.124E-01
4.167E-01 -	5.833E-01	5	8	41.67	66.67	3.608E+00	5.369E-01
5.833E-01 -	7.500E-01	2	10	16.67	83.33	2.960E+00	3.115E-01
7.500E-01 -	9.167E-01	1	11	8.33	91.67	1.365E+00	9.764E-02
9.167E-01 -	1.083E+00	1	12	8.33	100.00	4.090E-01	8.542E-01
	G	0	12	0.00	100.00		
	H	0	12				
	B	0	12				
TOTALS LESS H AND B		12				1.082E+01	1.913E+00

HISTOGRAM FOR VARIABLE 25 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

(195)

```
2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+00 XXXXXXXXXXXXXXXX
6.813E+00 XXXXXXXX
1.000E+01 XXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+00
MAXIMUM ANTILOG = 1.10000E+01
GEOMETRIC MEAN = 3.35761E+00
GEOMETRIC DEVIATION = 1.63746E+00
VARIANCE OF LOGS = 4.58691E-02

PERCENT TABLE FOR VARIABLE 25 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	0.516667E+00	0.328600E+01
75.00	0.666667E+00	0.464160E+01
90.00	0.883335E+00	0.764424E+01
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 26 (AA-AG-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-1.584E+00 - -1.417E+00	4	4	33.33	33.33	1.111E+00	7.518E+00
-1.417E+00 - -1.251E+00	0	4	0.00	33.33	1.762E+00	1.762E+00
-1.251E+00 - -1.084E+00	2	6	16.67	50.00	2.223E+00	2.243E-02
-1.084E+00 - -9.173E-01	2	8	16.67	66.67	2.231E+00	2.387E-02
-9.173E-01 - -7.507E-01	2	10	16.67	83.33	1.780E+00	2.724E-02
-7.507E-01 - -5.840E-01	0	10	0.00	83.33	1.129E+00	1.129E+00
-5.840E-01 - -4.173E-01	2	12	16.67	100.00	8.939E-01	1.369E+00
G	0	12	0.00	100.00		
H	0	12				
B	0	12				
TOTALS LESS H AND B	12				1.113E+01	1.185E+01

HISTOGRAM FOR VARIABLE 26 (AA-AG-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
3.157E-02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E-02
6.802E-02 XXXXXXXXXXXXXXXX
9.985E-02 XXXXXXXXXXXXXXXX
1.466E-01 XXXXXXXXXXXXXXXX
2.151E-01
3.157E-01 XXXXXXXXXXXXXXXX
```


THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.50000E-02
MAXIMUM ANTILOG = 3.20000E-01
GEOMETRIC MEAN = 8.28754E-02
GEOMETRIC DEVIATION = 2.21201E+00
VARIANCE OF LOGS = 1.18878E-01

PERCENT TABLE FOR VARIABLE 26 (AA-AG-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.103400E+01	0.824140E-01
75.00	-0.833999E+00	0.146555E+00

TABLE 11.--Continued

90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

TABLE 11.--Continued

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (07/04/76) DATE 6/16/81

FREQUENCY TABLE FOR VARIABLE 27 (AA-CD-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-1.750E+00 - -1.583E+00	1	1	8.33	8.33	8.657E-02	9.638E+00
-1.583E+00 - -1.417E+00	0	1	0.00	8.33	3.836E-01	3.836E-01
-1.417E+00 - -1.250E+00	1	2	8.33	16.67	1.137E+00	1.658E-02
-1.250E+00 - -1.083E+00	1	3	8.33	25.00	2.258E+00	7.009E-01
-1.083E+00 - -9.167E-01	2	5	16.67	41.67	3.003E+00	3.350E-01
-9.167E-01 - -7.500E-01	5	10	41.67	83.33	2.676E+00	2.019E+00
-7.500E-01 - -5.833E-01	2	12	16.67	100.00	2.441E+00	7.973E-02
G	0	12	0.00	100.00		
H	0	12				
B	0	12				
TOTALS LESS H AND B	12				1.199E+01	1.317E+01

HISTOGRAM FOR VARIABLE 27 (AA-CD-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```
(198)
      2.154E-02 XXXXXXXX
      3.162E-02
      4.642E-02 XXXXXXXX
      6.813E-02 XXXXXXXX
      1.000E-01 XXXXXXXXXXXXXXXX
      1.468E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
      2.154E-01 XXXXXXXXXXXXXXXX
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG	=	2.50000E-02
MAXIMUM ANTILOG	=	2.00000E-01
GEOMETRIC MEAN	=	1.08472E-01
GEOMETRIC DEVIATION	=	1.81481E+00
VARIANCE OF LOGS	=	6.69938E-02

PERCENT TABLE FOR VARIABLE 27 (AA-CD-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
50.00	-0.883332E+00	0.130818E+00
75.00	-0.733331E+00	0.184691E+00

TABLE 11.--Continued

90.00	0.100000E+36	0.100000E+36
95.00	0.100000E+36	0.100000E+36
99.00	0.100000E+36	0.100000E+36

Table 12.--Correlation Coefficients for Mo for Rock Samples Without Visible MoS_2 (77 samples)

	Element	A - From Original Data	B - From Log-Transformed Data
From Spectrographic Analyses	Fe	-0.02	-0.04
	Mg	-0.12	-0.20
	Ca	-0.13	-0.33
	Ti	-0.11	-0.20
	Mn	-0.12	-0.17
	Ba	0.08	0.12
	Be	-0.26	-0.35
	Co	0.06	0.01
	Cr	-0.06	0.10
	Cu	0.82	0.48
	La	-0.08	-0.18
	Ni	-0.08	-0.09
	Pb	0.30	0.19
	Sc	-0.17	-0.31
	Sr	0.05	-0.06
	V	0.02	-0.06
	Y	-0.17	-0.30
	Zr	-0.10	-0.15
From Atomic Absorption Analyses	Cu	0.18	0.27
	Pb	0.06	0.14
	Zn	-0.11	-0.15
	Ag	0.14	0.28
	Cd	-0.05	-0.08

NOTE: Correlation coefficients for Sb, Nb, Bi, B, and As are not included since most of the analytical values for these elements were N or L.

Table 13.--Correlation Coefficients for Mo for Rock Samples Containing Visible MoS_2
(12 samples)

	Element	A - From Original Data	B - From Log-Transformed Data
From Spectrographic Analyses	Fe	0.32	0.15
	Mg	-0.44	-0.52
	Ca	-0.32	-0.49
	Ti	-0.11	-0.32
	Mn	-0.32	-0.40
	Ba	0.16	0.18
	Be	-0.45	-0.47
	Co	-0.26	-0.28
	Cr	-0.28	-0.48
	Cu	0.26	0.61
	La	-0.31	-0.57
	Ni	-0.03	-0.09
	Pb	0.57	0.47
	Sc	-0.35	-0.52
	Sr	-0.24	-0.11
	V	-0.08	-0.26
	Y	-0.42	-0.64
	Zr	-0.45	-0.51
From Atomic Absorption Analyses	Cu	0.31	0.55
	Pb	0.56	0.50
	Zn	-0.37	-0.62
	Ag	0.39	0.56
	Cd	0.07	0.04
	Au	0.51	0.59

NOTE: Correlation coefficients for Sb, Nb, Bi, B, and As are not included since most of the analytical values for these elements were N or L.

Table 14.--Content of Cations and Anions in Water Samples

[Values expressed in parts per billion]

Sample No.	Mo	Cu	Zn	F	Cl	SO_4	NO_3^-
TEM208W	3.1	0.6	---	.14	1.7	4.1	2.1
TEM232W	0.8	0.6	4.2	.11	.55	2.0	---
TEM326W	4.8	1.5	3.5	.09	.45	2.3	1.2
TEM348W	1.1	2.5	8.6	.02	.41	2.1	---