

85-1111-14408

COMINCO LTD.

EXPLORATION

NTS: 94F/11W, 11E

WESTERN DISTRICT

GEOLOGICAL ASSESSMENT BRANCH REPORT

14,408

ASSESSMENT REPORT

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

KWAD GROUP - KWAD 1-4,6-8 CLAIMS

KWADACHA RIVER AREA

OMINECA MINING DIVISION

BRITISH COLUMBIA

16.5'

FILMED

LATITUDE: 57°37'N; LONGITUDE: 125°W

PERIOD OF FIELD WORK

AUGUST 3 TO AUGUST 8, 1985

Owner/Operator: Cominco Ltd.

RECEIVED

JAN 31 1986

Gold Commissioner's Office
VANCOUVER, B.C.

30 JANUARY 1986

BY: D. RHODES

LIST OF CLAIMS - KWAD GROUP

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>NO. OF UNITS</u>	<u>RECORDING DATE</u>
KWAD 1	2335	20	November 8, 1979
KWAD 2	2336	20	November 8, 1979
KWAD 3	2337	20	November 8, 1979
KWAD 4	2338	20	November 8, 1979
KWAD 6	2340	20	November 8, 1979
KWAD 7	2341	20	November 8, 1979
KWAD 8	2342	18	November 8, 1979

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COMINCO LTD.

EXPLORATION

NTS: 94F/11

WESTERN DISTRICT

30 January 1986

ASSESSMENT REPORT

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE KWAD GROUP

KWADACHA RIVER AREA

OMINECA MINING DIVISION

I. INTRODUCTION

The Kwad Group, totalling 138 units was staked to cover the baritic shale facies of the Gunsteel Formation and the possible strike extension of the Mount Alcock barite-lead-zinc occurrence.

Preliminary silt, soil and rock sampling, prospecting, geological mapping and linecutting in 1980 was followed up in 1981 by more detailed mapping and geochemical sampling.

In 1985 a rock geochemical sampling program took 257 samples which were subsequently analyzed for Pb, Zn, Ba, Hg and major elements. This program costing \$23,063.41 is documented in this report.

II. LOCATION AND ACCESS

The Kwad Group is located on the south side of the Kwadacha River approximately 7 kilometres south of Mount Alcock. The center of the claim group is located at latitude 57°37'N and longitude 125°17'W.

The property work was conducted out of a fly camp which was mobilized and supplied by (i) wheel equipped aircraft flying into Ingenika strip from Mackenzie 190 km to the south, (ii) a Hughes 500D helicopter operating out of the Sturdee strip flying the 60 km from Ingenika to the property.

III. GEOLOGY (Taken from Waters, B.C., 1981)

A. Geological Setting

A northwesterly trending belt of Ordovician to Devonian clastics has been outlined 40 km east of the Rocky Mountain Trench during a recent mapping program by the Geological Survey of Canada. This belt is part of the NW trending Kechika Trough which may represent a southeasterly extension of the larger Selwyn Basin. The belt can be subdivided into three parallel troughs or sub-basins which strike northwesterly. These are paleogeographic troughs as indicated by sedimentology and are not structural repetitions of a single trough. Barite appears to be present in all three troughs from both the Ordovician-Silurian Road River Formation and the Devonian Earn Group.

The South Kwad claim group is located over the central trough which is also the site of the Devonian Ba,Pb,Zn,Ag mineralization of the Cirque deposit and the Ordovician submarine volcanics. Block faults probably developed under an extensional tectonic regime and are thought to have controlled the shale deposition within the three sub-basins of the Kechika trough. These faults could also have acted as conduits for mineralizing solutions, which could have produced sulphides (pyrite, sphalerite and galena) or sulphate (barite) precipitates upon exhalation into the Middle/Upper Devonian euxinic sedimentary basin.

The Columbian orogeny (Cretaceous?) has produced regional folding and thrusting in the area with NE vergence and NWSE strike. Competent Cambrian and Silurian lithologies tend to form the overthrusted plates while Devonian and Ordovician shales in the footwall plates of the thrusts are often heavily deformed by semi-isoclinal folding. A slightly later normal faulting along NWSE lines is evident locally.

B. Geology of the Property

The geology of the property is dominated by NE vergent SW dipping thrust faults, probably developed during the Mesozoic Columbian orogeny, which has induced the prevalent NW strike and SW dip of most lithologies. The faults have exploited the contacts between the Cambrian, Ordovician, Silurian, Lower Devonian and Upper Devonian, (Table 1) and have produced tight folding and strong cleavage in the finer clastic lithologies resulting in an overall tectonic shortening of around 50%.

The Ordovician and Silurian sediments do not vary significantly across the area, but the thrusted Lower Devonian sections suggest a progression from limestone reef deposition on an elevated ridge in the east of the claim, to a restricted basinal turbiditic shale deposition across the centre of the area. This basinal environment is also reflected in the Upper Devonian Eark Group "Gunsteel".

IV. GEOCHEMISTRY

Two hundred and fifty-seven rock samples were collected along ten traverses that followed areas of moderate to good outcrop and felsenmeier exposure on ridge tops and in creek bottoms. Sample sites were spaced 40 metres apart along the traverses with two hand-size specimens being taken 5 metres apart at each sample site (Plate 85-3).

All of the samples were analyzed for lead, zinc, barium and mercury and major elements. The lead and zinc analyses were made by decomposition with aqua regia and subsequent analysis in dilute nitric acid by atomic absorption. Barium was quantitatively determined by XRF. Mercury was determined by dissolution in nitric acid and reduction in stannous chloride. The mercury was washed with an air stream into a silica absorption cell and analyzed with cold vapour atomic absorption. The major elements were determined by lithium borate fusion and XRF.

Appendix D presents the field data and statistics on the rock geochemistry based on the total population collected. From this data and the cumulative frequency curves one can pick anomalous thresholds for the elements as follows:

Ba - 20,000 ppm Zn - 200 ppm Pb - 30 ppm Hg - 150 ppm

TABLE 1

Trav.	
FeMn.	
	break
UDCt ₁	
UDSh ₂	
UDBaSh	
UDCt ₂ , UDCtSh ₁	
UDSh ₁	
UDCt ₁	
UDLst ₁	
UDSh ₁	
	break
LDSh	
LDLst	
	break
SSt ₁	
SLst ₁	
SSt ₂	
SCtSt	
SCbSh	
SCaSh	
SCtSh	
SLst ₁	
SSt ₁	
OClSh	
OCl	
OLst	
OCaSt	
OSh	
OV	
	break
Trav	Cream yellow vuggy travertine.
FeMn	Fe Mn cemented breccia deposits.
UDSh	Unassigned Upper Devonian shale.
UDCt ₃	Grey weathering and or Fe stained black cherts and cherty shales. (0-50 m)
UDSh ₃	Fe stained weathering black carbonaceous shale and silty shale. (200 m?)
UDBaSh	Fe stained weathering <u>barite</u> and <u>pyrite</u> lensed black carbonaceous and silty shale. (0-20 m)
UDCG	Slightly <u>pyritic</u> and <u>baritic</u> 'Chert Grit' variably sized angular grit fragments in a very fine grained matrix. (0-2 m)
UDLst ₂	Black coarsely crystalline fetid (strong smelling) limestone. (0-1 m)
UDCt ₂	Dark grey to black carbonaceous chert.
UDCtSh ₂	Fe stained weathering black cherty shale. (50-200 m)
UDSh ₂	Fe stained weathering dark grey to black silty shale. (50-200 m)
UDCt ₁	Black cherts and cherty shales. (?-150 m)
UDLst ₁	Black coarsely crystalline fetid limestone. (2 m)
UDSh ₁	Fe stained weathering silty shale. (?-150 m)
LDSh	Brown weathering black carbonaceous calcareous silt and silty shale. (50-100 m)
LDLst	Light grey weathering dark grey to black limestone with occasional fossils. (0-400 m?)
SSt	Unassigned Silurian siltstone.
SSt ₃	Brown weathering mottled calcareous silty shales, calcareous silts and semi-quartzites. (50-150 m?)
SLst ₂	Grey brown weathering medium grey variably silty limestone. (0-5 m)
SSt ₂	Brown weathering homogenous calc siltstone with pyrite filled burrows. (50-200 m?)
SCtSt	Grey brown or reddish purple weathering siltstone with 1-2 cm long lenses of dark grey or black chert. (0-20 m)
SCbSh	Black carbonaceous silty shale. (0-20 m)
SCaSh	Grey brown weathering calcareous shale. (0-20 m)
SCtSh	Black cherty and carbonaceous shale. (0-20 m)
SLst ₁	Grey brown weathering silty or Crinoidal limestone. (0-20 m)
SSt ₁	Grey brown weathering calc silt and silty shale. (0-200 m)
OSh	Variably carbonaceous, calcareous and silty shale with occasional thick pyrite lenses.
OClSh	Black carbonaceous cherty shale. (10-20 m beds)
OCl	Black carbonaceous chert - (rare sphalerite grains). (1-2 m beds)
OLst	Lensoid bodies of black coarsely crystalline limestone. (1-2 m beds)
OCaSt	Grey brown weathering calc silts. (1-2 m beds)
OV	Orange weathering green vuggy tuffs and lavas. (10 m?)

STRATIGRAPHIC COLUMN
SOUTH KWAD GROUP.

Scale: Date: Oct 81 Plate:

The whole rock compositions identify the different rock units by their relatively distinct compositions ie. high MgO characterizing the dolomitic Silurian siltstones, variable high SiO₂ and CaO characterizes the calcareous to siliceous Ordovician mudstones and siltstones and high SiO₂ and barium characterizing the Earn Group.

The Earn Group strata on the South Kwad are clearly very anomalous in barium with elevated levels of lead and mercury. These overall high values produce anomalous thresholds for the South Kwad claims that are higher than Earn Group samples on the Gnome property.

V. CONCLUSIONS

The high barium values and somewhat elevated lead and mercury values in Earn Group rocks on the South Kwad claims suggest that these rocks have greater potential for hosting barite-lead-zinc deposits than Earn Group rocks on Cominco's Gnome claims. The metal values however are generally low and do not indicate any immediate proximity to significant sulphide accumulations. Any potential for deposits on these claims is probably well down dip from surface exposures and would require testing by systematically spaced wild cat holes. Such drilling may be justifiable when and if known Akie deposits (ie. the Cirque) are being mined. It cannot be justified at present or in the immediate future.

Reported by:

Derek Rhodes
D. Rhodes,
Senior Geologist

Endorsed for
Release by:

John Hami Hm
J.M. Hamilton
Manager, Exploration -
Western Canada

DR/cgs

Distribution
Mining Recorder
Western District
DR

VI. REFERENCES

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- Cecile, M.P. and Norford, B.C. (1979): Basin to Platform Transition, Lower Paleozoic Strata of Ware and Trutch Map-Areas, Northeastern British Columbia, in Current Research, Part A. Geol. Surv., Canada, Paper 79-1A, Report 36.
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- Waters, B.C. (1981): Assessment Report-Geology, Geochemistry, South Kwad Property.

APPENDIX A

STATEMENT OF EXPENDITURES

SOUTH KWAD CLAIM GROUP

AUGUST 3 TO AUGUST 8, 1985

D. Rhodes	5 days @ \$281.84	\$1,409.20
C.N. Repp	5 days @ \$ 87.12	435.60
T.C. McDonald	5 days @ \$ 97.68	<u>488.40</u>
		\$2,333.20
Equipment and Supplies		3,578.89
Transportation - Fixed Wing	\$ 787.67	
- Helicopter and Fuel	<u>4,737.85</u>	
		5,525.52
Geochemistry		
257 Rock Samples		
Prep. & analysis for Pb,Zn,Hg,Ba @ \$14.40 each		3,700.80
257 Rock Samples		
Analysis for major elements @ \$25.00 each		6,425.00
Report Preparation and Draughting		<u>1,500.00</u>
TOTAL		<u>\$23,063.41</u>

APPENDIX B

A F F I D A V I T

I, Dereck Rhodes, of the Municipality of North Vancouver District, in the Province of British Columbia, make oath and say:

1. THAT I am employed as a geologist by Cominco Ltd., and as such have a personal knowledge of the facts to which I hereinafter depose;
2. THAT I annexed hereto and marked as Appendix A to this my affidavit is a true copy of expenditures incurred in connection with a geochemical program carried out on the KWAD mineral claims;
3. THAT said expenditures were incurred between the third day of August and the eighth day of August, 1985 for the purpose of mineral exploration on the above noted claims.

Signed:

Dereck Rhodes

Dereck Rhodes
Senior Geologist

APPENDIX C

STATEMENT OF QUALIFICATIONS

I, Dereck Rhodes, of the Municipality of North Vancouver District, in the Province of British Columbia, hereby certify:

1. THAT I am a geologist residing at 2514 Bronte Road, North Vancouver, British Columbia, with a business address at 700-409 Granville Street, Vancouver, British Columbia.
2. THAT I graduated with a B.Sc., in geology from McMaster University in 1969.
3. THAT I have practiced geology with Cominco Ltd. from June 1969 to the present.

Signed:

Dereck Rhodes

Dereck Rhodes
Senior Geologist

APPENDIX D

ROCK GEOCHEMICAL DATA AND STATISTICS

SOUTH KWAD CAKIE W.P. >

JOB # 85-0343R

SOUTH KWAD

REPORT DATE 4 OCT 1985

LAB NO	FIELD NUMBER	Pb PPM	Zn PPM	BA (4) PPM	Hg PPB
R8511783	KWAD 1-2A	4	60	901	123
R8511784	KWAD 1-2B	4	7	1024	160
R8511785	KWAD 1-3A	5	8	1535	450
R8511786	KWAD 1-3B	10	51	5645	720
R8511787	KWAD 1-4A	12	146	4421	95
R8511788	KWAD 1-4B	16	22	4191	80
R8511789	KWAD 1-5A	17	10	4646	80
R8511790	KWAD 1-5B	7	53	6180	132
R8511791	KWAD 1-6A	4	<1	1304	112
R8511792	KWAD 1-6B	4	51	1026	84
R8511793	KWAD 1-7A	15	9	5127	143
R8511794	KWAD 1-7B	4	14	2424	40
R8511795	KWAD 1-8A	15	83	10979	92
R8511796	KWAD 1-8B	17	78	14789	59
R8511797	KWAD 1-9A	18	41	15134	98
R8511798	KWAD 1-9B	4	39	1618	23
R8511799	KWAD 1-10A	6	357	3290	50
R8511800	KWAD 1-10B	16	13	11596	89
R8511801	KWAD 1-11A	15	21	843	27
R8511802	KWAD 1-11B	13	69	7057	92
R8511803	KWAD 1-12B	13	14	822	19
R8511804	KWAD 1-14A	16	169	831	45
R8511805	KWAD 1-14B	22	94	657	32
R8511806	KWAD 1-15A	7	109	529	19
R8511807	KWAD 1-15B	34	106	656	28
R8511808	KWAD 2-1A	7	13	529	19
R8511809	KWAD 2-1B	18	50	704	32
R8511810	KWAD 2-2A	27	147	1216	46
R8511811	KWAD 2-2B	5	17	473	41
R8511812	KWAD 2-3A	11	68	1044	50
R8511813	KWAD 2-3B	37	249	1080	41
R8511814	KWAD 2-4A	9	94	3727	67
R8511815	KWAD 2-4B	8	73	3335	50
R8511816	KWAD 2-5A	11	13	9892	96
R8511817					
R8511818					
R8511819					
R8511820	KWAD 2-5B	16	347	10249	130
R8511821	KWAD 2-6A	12	125	13863	110
R8511822	KWAD 2-6B	20	78	5464	80
R8511823	KWAD 2-7A	17	54	10464	58
R8511824	KWAD 2-7B	12	29	6852	70
R8511825	KWAD 2-8A	13	25	11658	72
R8511826	KWAD 2-8B	10	16	5734	86
R8511827	KWAD 2-9A	18	16	6074	89
R8511828	KWAD 2-9B	19	23	5747	83
R8511829	KWAD 2-10A	11	37	9935	32
R8511830	KWAD 2-10B	18	17	6159	109
R8511831	KWAD 2-11A	4	21	663	42
R8511832	KWAD 2-11B	4	186	1142	28
R8511833	KWAD 2-12A	14	190	5257	62

LAB NO	FIELD NUMBER	Pb PPM	Zn PPM	Ba(4) PPM	Hg PPB
R8511834	KWAD 2-12A	5	36	30942	130
R8511835	KWAD 2-13A	12	34	10503	87
R8511836	KWAD 2-13B	11	32	18226	92
R8511837	KWAD 2-14A	6	28	4437	73
R8511838	KWAD 2-14B	10	10	5761	82
R8511839	KWAD 2-15A	5	89	4119	60
R8511840	KWAD 2-15B	8	72	3203	50
R8511841	KWAD 2-17A	<4	29	620	100
R8511842	KWAD 2-17B	<4	14	1077	95
R8511843	KWAD 2-1A	5	305	906	100
R8511844	KWAD 3-1A	5	114	1150	75
R8511845	KWAD 2-2A	<4	302	1092	68
R8511846	KWAD 3-2B	13	192	1356	112
R8511847	KWAD 2-3A	8	59	1481	84
R8511848	KWAD 3-3B	5	16	988	127
R8511849	KWAD 2-4A	6	65	1087	100
R8511850	KWAD 3-4B	8	33	1029	98
R8511851	KWAD 2-5A	4	26	1151	27
R8511852	KWAD 3-5B	11	41	1098	50
R8511853	KWAD 2-6A	7	21	891	73
R8511854	KWAD 3-6B	7	37	980	87
R8511855	KWAD 2-7A	5	128	1227	82
R8511856	KWAD 3-7B	<4	71	1151	89
R8511857	KWAD 2-8A	<4	24	1183	87
R8511858	KWAD 3-8B	7	10	3300	160
R8511859	KWAD 2-9A	<4	19	1772	130
R8511860	KWAD 3-9B	<4	9	1267	100
R8511861	KWAD 2-10A	5	20	2638	210
R8511862	KWAD 3-10B	5	9	2867	140
R8511863	KWAD 4-1A	<4	7	645	52
R8511864	KWAD 4-1B	<4	255	950	62
R8511865	KWAD 4-2A	4	20	1096	82
R8511866	KWAD 4-2B	<4	90	1163	67
R8511867	KWAD 4-4A	9	11	3513	280
R8511868	KWAD 3-4B	<4	9	879	73
R8511869	KWAD 4-5A	19	25	3307	92
R8511870	KWAD 3-5B	12	73	3244	82
R8511871	KWAD 4-6A	13	26	5167	80
R8511872	KWAD 3-6B	11	27	6551	87
R8511873	KWAD 4-7A	11	17	60616	180
R8511874	KWAD 3-7B	8	52	5439	175
R8511875	KWAD 4-8A	5	5	978	73
R8511876	KWAD 3-8B	5	40	1061	41
R8511877	KWAD 4-9A	11	64	13435	83
R8511878	KWAD 3-9B	13	20	6529	76
R8511879	KWAD 4-10A	<4	125	1471	10
R8511880	KWAD 3-10B	16	29	5994	70
R8511881	KWAD 4-11A	22	16	14654	87
R8511882	KWAD 3-11B	15	26	4719	89
R8511883	KWAD 4-12A	28	16	6087	100
R8511884	KWAD 3-12B	24	116	6817	87
R8511885	KWAD 4-13A	7	17	18015	220
R8511886	KWAD 3-13B	12	33	16670	170
R8511887	KWAD 4-14A	7	22	1727	23

LAB NO	FIELD NUMBER	Fe PPM	Zn PPM	Ba (4) PPM	Hg PPB
R8511888	KWAD 3-14A	<4	30	1051	46
R8511889	KWAD 4-16A	4	12	1329	<10
R8511890	KWAD 4-16B	<4	46	1564	10
R8511891	KWAD 4-17A	12	96	1173	76
R8511892	KWAD 4-17B	7	8	913	49
R8511893	KWAD 4-18A	<4	16	1017	32
R8511894	KWAD 4-18B	<4	9	811	28
R8511895	KWAD 4-19A	10	27	1134	32
R8511896	KWAD 4-19B	4	18	1364	10
R8511897	KWAD 5-1A	13	72	1021	<10
R8511898	KWAD 5-1B	13	77	1220	32
R8511899	KWAD 5-2A	9	69	1057	20
R8511900	KWAD 5-2B	7	18	913	23
R8511901	KWAD 5-7A	12	54	12279	82
R8511902	KWAD 5-7B	18	36	6519	73
R8511903	KWAD 5-8A	11	266	5684	76
R8511904	KWAD 5-8B	21	34	5252	83
R8511905	KWAD 5-9A	15	20	5614	82
R8511906	KWAD 5-9B	18	30	5875	92
R8511907	KWAD 5-10A	9	48	10656	59
R8511908	KWAD 5-10B	11	23	14063	73
R8511909	KWAD 5-11A	10	7	1615	370
R8511910	KWAD 5-11B	<4	6	1225	76
R8511911	KWAD 5-12A	6	4	1245	66
R8511912	KWAD 5-12B	5	33	1050	46
R8511913	KWAD 5-13A	12	154	34947	130
R8511914	KWAD 5-13B	14	35	35581	89
R8511915	KWAD 5-14A	18	74	11869	82
R8511916	KWAD 5-14B	12	40	38636	76
R8511917	KWAD 5-15A	16	70	4743	82
R8511918	KWAD 5-15B	13	43	14773	86
R8511919	KWAD 5-16A	14	21	4054	76
R8511920	KWAD 5-16B	13	7	3551	46
R8511921	KWAD 5-17A	6	56	805	42
R8511922	KWAD 5-17B	8	53	927	82
R8511923	KWAD 6-1A	21	132	3905	155
R8511924	KWAD 6-1B	93	348	3980	440
R8511925	KWAD 6-4A	17	114	5287	205
R8511926	KWAD 6-4B	16	94	5357	140
R8511927	KWAD 6-5A	15	33	6413	210
R8511928	KWAD 6-5B	16	38	11718	165
R8511929	KWAD 6-6A	18	33	6062	170
R8511930	KWAD 6-6B	23	120	16135	62
R8511931	KWAD 6-7A	13	9	6530	63
R8511932	KWAD 6-7B	14	32	53472	210
R8511933	KWAD 6-8A	15	17	11337	58
R8511934	KWAD 6-8B	17	31	15493	123
R8511935	KWAD 6-9A	13	15	4395	46
R8511936	KWAD 6-9B	13	48	6177	86
R8511937	KWAD 6-10A	18	24	6769	84
R8511938	KWAD 6-10B	21	37	9652	59
R8511939	KWAD 7-1A	11	143	63656	285
R8511940	KWAD 7-2A	13	38	4683	92
R8511941	KWAD 7-2B	6	36	6993	140

LAB NO	FIELD NUMBER	Pb PPM	Zn PPM	Da(4) PPM	Hg PPB
R8511942	KWAD 7-3A	14	106	12127	180
R8511943	KWAD 7-3B	26	78	4062	84
R8511944	KWAD 7-4A	17	34	15914	89
R8511945	KWAD 7-4B	9	42	4781	23
R8511946	KWAD 7-5A	19	19	5318	84
R8511947	KWAD 7-5B	18	12	15520	73
R8511948	KWAD 7-6A	18	151	17723	96
R8511949	KWAD 7-6B	27	91	5618	99
R8511950	KWAD 7-7A	19	27	6357	89
R8511951	KWAD 7-7B	24	121	5778	100
R8511952	KWAD 7-8A	20	178	12732	99
R8511953	KWAD 7-9B	20	205	14156	89
R8511954	KWAD 7-14A	13	61	544	73
R8511955	KWAD 8-1A	17	8	946	20
R8511956	KWAD 8-1B	10	10	1014	49
R8511957	KWAD 8-4A	10	96	518	10
R8511958	KWAD 8-4B	12	39	375	14
R8511959	KWAD 8-6A	12	85	821	28
R8511960	KWAD 8-6B	9	33	915	130
R8511961	KWAD 8-7A	14	9	1148	47
R8511962	KWAD 8-7B	15	138	918	83
R8511963	KWAD 8-8A	15	35	1975	87
R8511964	KWAD 8-9B	17	19	708	49
R8511965	KWAD 8-9A	16	48	1277	50
R8511966	KWAD 8-9B	21	14	886	36
R8511967	KWAD 8-10A	17	22	1583	26
R8511968	KWAD 9-11A	14	203	3167	32
R8511969	KWAD 9-11B	25	171	4206	49
R8511970	KWAD 9-12A	14	63	4453	86
R8511971	KWAD 9-12B	18	53	5560	84
R8511972	KWAD 9-13A	11	78	2237	70
R8511973	KWAD 9-13B	13	43	2326	60
R8511974	KWAD 9-14A	15	60	6968	90
R8511975	KWAD 9-14B	14	71	30732	129
R8511976	KWAD 9-15A	25	14	10359	60
R8511977	KWAD 9-15B	24	15	6455	90
R8511978	KWAD 9-16A	20	19	11459	92
R8511979	KWAD 9-16B	16	10	16886	72
R8511980	KWAD 9-17A	14	24	1320	33
R8511981	KWAD 9-17B	12	21	2769	68
R8511982	KWAD 9-18A	16	369	3516	72
R8511983	KWAD 9-18B	14	36	2954	60
R8511984	KWAD 9-19A	17	11	2190	59
R8511985	KWAD 9-19B	15	60	3038	84
R8511986	KWAD 9-22A	10	96	1809	80
R8511987	KWAD 9-22B	11	165	1718	80
R8511988	KWAD 10-1A	8	27	1498	10
R8511989	KWAD 10-1B	11	61	1326	17
R8511990	KWAD 10-3A	18	27	2884	120
R8511991	KWAD 10-3B	10	138	3105	73
R8511992	KWAD 10-4A	22	21	4606	90
R8511993	KWAD 10-4B	17	107	3944	83
R8511994	KWAD 10-5A	16	32	3503	170
R8511995	KWAD 10-5B	14	29	3154	98

LAB NO	FIELD NUMBER	PB PPM	ZN PPM	BA(4) PPM	Hg PPB
R8511995	KWAD 10-6A	19	26	10417	99
R8511997	KWAD 10-6B	18	34	6892	97
R8511998	KWAD 10-7A	15	9	10418	75
R8511999	KWAD 10-7B	16	7	39934	100
R8512000	KWAD 10-8A	11	43	32395	130
R8512001	KWAD 10-8B	14	78	33320	98
R8512002	KWAD 10-9A	22	91	4631	73
R8512003	KWAD 10-9B	17	80	4355	70
R8512004	KWAD 10-10A	15	53	2842	83
R8512005	KWAD 10-10B	15	52	2963	93
R8512006	KWAD 8-10A	379	142	916	505
R8512007	KWAD 8-11A	18	33	6480	97
R8512008	KWAD 8-11B	15	18	1876	50
R8512009	KWAD 8-12A	25	70	16459	135
R8512010	KWAD 8-12B	18	125	2604	100
R8512011	KWAD 8-13A	29	20	13198	89
R8512012	KWAD 8-13B	30	15	11683	110
R8512013	KWAD 8-14A	18	19	1738	630
R8512014	KWAD 8-14B	17	35	1262	240
R8512015	KWAD 8-15A	12	124	1330	68
R8512016	KWAD 8-15B	10	25	1443	60
R8512017	KWAD 8-16A	14	9	1413	100
R8512018	KWAD 8-16B	24	20	16990	126
R8512019	KWAD 8-17A	22	66	15130	99
R8512020	KWAD 8-17B	25	73	3676	130
R8512021	KWAD 8-18A	17	43	15740	99
R8512022	KWAD 8-18B	19	122	5954	68
R8512023	KWAD 8-19A	14	53	1177	115
R8512024	KWAD 8-19B	20	122	6052	325
R8512025	KWAD 8-20A	12	48	1409	112
R8512026	KWAD 8-20B	11	10	748	47
R8512027	KWAD 8-21A	14	48	943	10
R8512028	KWAD 8-21B	19	144	1407	10
R8512029	KWAD 9-1A	14	161	1561	73
R8512030	KWAD 9-1B	16	111	1096	32
R8512031	KWAD 9-2A	14	59	1028	23
R8512032	KWAD 9-2B	12	50	1024	40
R8512033	KWAD 9-4A	12	43	1342	10
R8512034	KWAD 9-4B	11	161	1132	23
R8512035	KWAD 9-5A	12	51	1240	(10)
R8512036	KWAD 9-5B	12	36	951	(10)
R8512037	KWAD 9-6A	11	52	1846	32
R8512038	KWAD 9-6B	8	44	1469	23
R8512039	KWAD 9-9A	30	92	2546	60
R8512040	KWAD 9-9B	22	322	2582	50
R8512041	KWAD 9-10A	22	133	2399	63
R8512042	KWAD 9-10B	19	105	1375	83

I=INSUFFICIENT SAMPLE X=SMALL SAMPLE E=EXCEEDS CALIBRATION C=BEING CHECKED R=REVISED
 IF REQUESTED ANALYSES ARE NOT SHOWN RESULTS ARE TO FOLLOW

ANALYTICAL METHODS

Pb AQUA REGIA DECOMPOSITION / AAS

Zn AQUA REGIA DECOMPOSITION / AAS

Ba(4) X-RAY FLUORESCENCE

Hg FLAMELESS AAS

SOUTH KWAN KAI KIE W.P. >

JOB V-65-0343R
REPORT DATE 4 OCT 1985

SOUTH KWAD

LAB NO	FIELD NUMBER	S102	T102	M103	Fe103	Fe0	Mg0	Mg0	Ca0	Na20	K20	P203	Li0	TOTAL
		%	%	%	%	%	%	%	%	%	%	%	%	%
R0511783	KWAD 1-2a	92.66	0.10	1.72	1.10		0.11	0.09	0.02	0.55		2.97	99.32	
R0511784	KWAD 1-2a	92.39	0.10	1.98	0.64		0.07	0.07	0.02	0.58		3.57	99.33	
R0511785	KWAD 1-3a	92.43	0.13	2.56	0.62		0.08	0.05	0.02	0.75		2.58	99.42	
R0511786	KWAD 1-3a	76.37	0.36	8.24	1.28		0.83	0.06	0.24	2.16		9.43	98.97	
R0511787	KWAD 1-4a	77.50	0.48	9.92	3.94		0.30	0.07	0.13	2.09		4.75	99.18	
R0511788	KWAD 1-4a	81.85	0.46	9.18	1.00		0.32	0.05	0.08	1.93		3.98	99.25	
R0511789	KWAD 1-5a	81.47	0.48	9.14	1.37		0.45	0.05	0.18	2.38		3.68	99.20	
R0511790	KWAD 1-5a	82.94	0.35	6.98	2.54		0.36	0.06	0.15	1.73		4.07	99.20	
R0511791	KWAD 1-6a	89.08	0.14	2.88	0.47		0.19	0.04	0.02	0.69		6.13	99.44	
R0511792	KWAD 1-6a	92.08	0.12	2.34	0.81		0.10	0.07	0.02	0.57		3.30	99.43	
R0511793	KWAD 1-7a	77.14	0.39	10.13	1.77		0.79	0.20	0.03	2.33		6.50	99.30	
R0511794	KWAD 1-7a	94.45	0.66	1.79	0.94		0.04	0.08	0.02	0.34		2.07	99.31	
R0511795	KWAD 1-8a	79.42	0.39	7.68	3.15		0.51	0.16	0.09	1.87		3.35	98.42	
R0511796	KWAD 1-8a	76.82	0.44	8.78	3.17		0.66	0.15	0.19	2.27		5.00	98.28	
R0511797	KWAD 1-9a	80.09	0.48	9.26	2.14		0.60	0.12	0.30	2.34		4.20	99.53	
R0511798	KWAD 1-9a	93.58	0.10	1.42	1.93		0.02	0.15	0.02	0.27		1.64	99.13	
R0511799	KWAD 1-10a	76.96	0.41	9.49	3.66		0.71	0.13	0.02	4.33		3.52	99.23	
R0511800	KWAD 1-10a	79.85	0.47	9.09	1.67		0.44	0.10	0.01	2.21		4.16	99.00	
R0511801	KWAD 1-11a	59.08	0.33	7.71	1.96		4.88	9.30	0.03	3.21		11.50	98.08	
R0511802	KWAD 1-11a	80.67	0.42	7.94	2.64		0.47	0.14	0.02	2.03		4.39	98.22	
R0511803	KWAD 1-12a	59.46	0.37	8.31	1.97		4.92	8.63	0.11	3.35		11.39	98.51	
R0511804	KWAD 1-14a	45.21	0.39	9.60	1.63		3.58	5.53	0.13	3.97		8.41	98.45	
R0511805	KWAD 1-14a	55.15	0.31	7.53	2.19		5.67	10.58	0.03	2.98		13.29	97.73	
R0511806	KWAD 1-15a	36.07	0.47	6.55	1.46		2.87	32.16	0.33	1.40		22.14	95.15	
R0511807	KWAD 1-15a	52.31	0.34	7.78	2.23		6.44	11.60	0.10	2.03		14.33	98.16	
R0511808	KWAD 2-1a	27.53	0.16	4.35	1.11		2.92	31.39	0.53	1.25		26.31	95.65	
R0511809	KWAD 2-1a	53.50	0.33	7.55	2.69		4.71	11.21	0.09	3.00		13.27	98.43	
R0511810	KWAD 2-2a	73.58	0.46	10.64	2.07		1.86	1.42	0.08	3.21		3.96	99.28	
R0511811	KWAD 2-2a	31.28	0.18	4.69	1.36		1.84	30.98	0.45	1.39		24.33	96.74	
R0511812	KWAD 2-3a	45.15	0.39	9.30	2.07		3.54	5.67	0.19	3.04		7.20	97.53	
R0511813	KWAD 2-3a	49.47	0.49	9.85	1.96		2.77	3.21	0.14	4.76		5.84	98.40	
R0511814	KWAD 2-4a	71.48	0.52	13.67	1.86		1.08	0.18	0.49	3.12		7.04	99.44	
R0511815	KWAD 2-4a	73.68	0.48	13.21	1.50		0.96	0.15	0.48	3.04		5.97	99.47	

LAB NO	FIELD NUMBER	Si02		Ti02		Al203		Fe203		FeO		MgO		CaO		Mn20		K20		P203		LOI		TOTAL	
		X	Z	X	Z	X	Z	X	Z	X	Z	X	Z	X	Z	X	Z	X	Z	X	Z	X	Z	X	Z
R8511816	KHAB 2-5a	86.15	0.32	5.84	0.98			0.33	0.05	0.13	1.50			3.01	98.33										
R8511817	CT BR-1	10.58	0.02	1.08	0.24			6.23	16.23	0.02	0.26			5.80	48.48										
R8511818	CT BR-2	0.03	0.07	1.73	1.91			1.82	0.94	2.09	0.14			10.58	19.31										
R8511819	CT BR-3	0.70	0.10	2.32	3.89			2.05	1.44	2.70	0.21			9.88	23.69										
R8511820	KHAB 2-5a	89.72	0.50	9.11	1.15			0.59	0.08	0.17	2.39			4.20	98.91										
R8511821	KHAB 2-6a	84.06	0.34	6.57	1.04			0.41	0.10	0.21	1.67			3.59	97.99										
R8511822	KHAB 2-6a	84.46	0.38	7.30	1.06			0.35	0.04	0.08	1.79			3.61	99.07										
R8511823	KHAB 2-7a	89.81	0.29	4.81	0.65			0.21	0.05	0.18	1.21			2.19	98.40										
R8511824	KHAB 2-7a	80.23	0.50	9.99	0.69			0.52	0.04	0.16	2.48			4.29	98.70										
R8511825	KHAB 2-8a	92.41	0.44	0.36	0.87			0.48	0.04	0.16	2.13			3.65	98.81										
R8511826	KHAB 2-8a	80.40	0.46	9.34	1.24			0.34	0.05	0.18	2.45			4.28	99.16										
R8511827	KHAB 2-9a	82.07	0.45	8.54	0.84			0.43	0.05	0.19	2.14			4.17	98.70										
R8511828	KHAB 2-9a	86.59	0.33	6.12	0.79			0.30	0.03	0.37	1.51			2.95	99.01										
R8511829	KHAB 2-10a	79.05	0.48	9.61	1.28			1.05	0.12	0.41	2.66			3.54	99.00										
R8511830	KHAB 2-10a	83.26	0.41	7.86	0.77			0.42	0.05	0.08	1.75			4.16	90.96										
R8511831	KHAB 2-11a	93.42	0.07	1.12	0.53			0.02	0.04	0.05	0.35			1.77	99.22										
R8511832	KHAB 2-11a	94.73	0.02	1.33	0.32			0.02	0.04	0.04	0.41			2.04	99.21										
R8511833	KHAB 2-12a	84.43	0.37	7.24	0.77			0.43	0.06	0.05	1.79			4.03	99.21										
R8511834	KHAB 2-12a	79.51	0.28	6.40	0.95			0.34	0.08	0.41	0.75			6.80	95.72										
R8511835	KHAB 2-13a	80.45	0.47	9.48	1.00			0.53	0.03	0.01	2.39			3.64	98.70										
R8511836	KHAB 2-13a	81.97	0.41	7.20	1.28			0.29	0.08	0.35	1.63			4.06	97.27										
R8511837	KHAB 2-14a	79.74	0.31	9.82	1.28			0.37	0.03	0.08	2.56			4.09	98.70										
R8511838	KHAB 2-14a	78.54	0.34	10.84	1.22			0.65	0.04	0.02	2.84			3.90	98.37										
R8511839	KHAB 2-15a	82.14	0.36	7.61	2.23			0.12	0.04	0.02	1.59			4.82	98.93										
R8511840	KHAB 2-15a	83.24	0.39	8.20	1.89			0.13	0.04	0.02	1.55			3.67	99.13										
R8511841	KHAB 2-17a	24.46	0.08	1.30	0.48			0.02	0.04	0.02	0.40			2.36	99.16										
R8511842	KHAB 2-17a	92.61	0.11	1.73	0.47			0.02	0.03	0.02	0.57			3.61	99.21										
R8511843	KHAB 2-18a	64.33	0.36	8.57	2.33			4.05	8.84	0.02	2.88			9.89	90.37										
R8511844	KHAB 3-1a	58.87	0.35	7.96	1.92			5.79	8.20	0.08	2.77			11.87	98.13										
R8511845	KHAB 3-2a	66.41	0.34	8.27	1.59			3.64	5.39	0.55	3.16			9.04	98.39										
R8511846	KHAB 3-2a	71.75	0.39	8.91	2.99			1.83	2.53	0.03	4.09			5.88	97.92										
R8511847	KHAB 3-3a	50.64	0.34	7.20	1.72			7.57	10.69	0.03	2.85			16.93	97.97										
R8511848	KHAB 3-3a	86.99	0.20	3.84	0.56			0.34	0.09	0.02	1.20			5.90	99.14										
R8511849	KHAB 2-4a	89.26	0.18	3.90	0.57			0.34	0.10	0.02	1.24			3.48	99.10										
R8511850	KHAB 3-4a	89.01	0.19	3.91	0.57			0.75	0.13	0.02	1.29			4.05	99.42										
R8511851	KHAB 2-4a	45.24	0.29	7.69	1.59			4.61	6.44	0.17	3.13			9.37	98.44										

LAB NO	FIELD NUMBER	S:02	T:02	A:203	F:203	F:0	N:0	N:0	C:0	M:20	K:20	P:205	L:01	TOTAL
		Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
R0511852	KMAB 3-5a	64.46	0.28	7.00	3.70		4.23	5.81	0.13	2.82		8.52	96.95	
R0511853	KMAB 2-4a	39.55	0.28	5.88	1.64		8.22	18.45	0.03	2.14		21.38	97.57	
R0511854	KMAB 3-6a	36.38	0.31	5.96	1.88		10.00	17.17	0.21	2.01		23.41	97.33	
R0511855	KMAB 3-7a	48.50	0.31	6.44	1.52		7.60	12.82	0.19	2.50		19.34	99.24	
R0511856	KMAB 3-7a	43.65	0.28	5.58	1.38		8.29	15.20	0.03	2.14		22.59	99.13	
R0511857	KMAB 3-8a	94.09	0.08	1.17	0.43		0.02	0.10	0.02	0.45		2.41	98.97	
R0511858	KMAB 3-8a	80.23	0.32	8.48	0.39		0.82	0.07	0.02	2.38		6.11	99.02	
R0511859	KMAB 3-9a	69.54	0.12	2.76	0.68		0.14	0.09	0.02	0.05		4.92	99.12	
R0511860	KMAB 3-9a	92.49	0.10	1.85	0.43		0.05	0.05	0.07	0.60		3.64	99.28	
R0511861	KMAB 3-10a	89.79	0.15	3.06	0.57		0.19	0.10	0.02	0.98		4.12	98.98	
R0511862	KMAB 3-10a	83.92	0.27	5.73	0.27		0.52	0.07	0.02	1.04		7.35	99.99	
R0511863	KMAB 4-1a	44.68	0.23	5.91	1.58		6.13	17.09	0.99	1.79		20.04	98.48	
R0511864	KMAB 4-1a	37.87	0.28	5.92	1.59		3.22	24.28	0.44	2.04		23.37	98.98	
R0511865	KMAB 4-2a	43.83	0.27	6.01	1.20		8.13	16.00	0.56	1.99		21.79	99.78	
R0511866	KMAB 4-2a	41.66	0.23	5.42	1.28		9.62	15.98	0.74	1.91		23.03	99.89	
R0511867	KMAB 4-4a	49.12	0.46	12.75	2.71		1.43	0.07	0.18	3.75		9.51	99.79	
R0511868	KMAB 4-4a	95.27	0.08	1.35	0.50		0.02	0.06	0.02	0.44		1.74	99.44	
R0511869	KMAB 4-5a	85.14	0.41	7.57	0.97		0.29	0.10	0.02	1.62		3.51	99.65	
R0511870	KMAB 4-5a	79.43	0.52	10.30	1.77		0.32	0.10	0.27	2.15		4.63	99.51	
R0511871	KMAB 4-6a	78.14	0.52	10.73	1.46		0.67	0.10	0.27	2.74		4.61	99.24	
R0511872	KMAB 4-6a	79.81	0.47	9.24	1.67		0.41	0.11	0.02	2.35		4.44	98.52	
R0511873	KMAB 4-7a	72.86	0.42	8.67	0.96		0.65	0.07	0.64	2.09		4.83	91.21	
R0511874	KMAB 4-7a	83.46	0.43	8.28	0.49		0.34	0.12	0.02	1.79		3.79	98.72	
R0511875	KMAB 4-8a	93.08	0.10	1.71	0.27		0.02	0.06	0.02	0.49		3.34	99.09	
R0511876	KMAB 4-8a	89.92	0.11	2.26	1.09		0.02	0.06	0.02	0.60		4.81	98.91	
R0511877	KMAB 4-9a	79.71	0.42	8.25	1.07		0.52	0.12	0.01	2.66		4.70	97.66	
R0511878	KMAB 4-9a	82.52	0.43	8.07	0.76		0.52	0.13	0.11	2.04		4.03	98.61	
R0511879	KMAB 4-10a	62.83	0.41	8.63	2.23		2.40	8.19	0.36	3.63		10.25	99.04	
R0511880	KMAB 4-10a	79.18	0.43	9.31	1.14		0.62	0.43	0.07	2.57		4.88	98.58	
R0511881	KMAB 4-11a	80.01	0.45	8.69	1.48		0.52	0.14	0.11	2.16		4.21	97.77	
R0511882	KMAB 4-11a	80.58	0.44	7.99	2.39		0.56	0.11	0.11	2.03		4.52	98.73	
R0511883	KMAB 4-12a	80.62	0.45	8.92	1.33		0.49	0.15	0.06	2.20		4.37	98.59	
R0511884	KMAB 4-12a	74.72	0.44	10.42	3.15		0.60	0.24	0.07	2.50		6.43	98.57	
R0511885	KMAB 4-13a	82.43	0.34	7.12	0.40		0.42	0.12	0.19	1.31		4.67	97.22	
R0511886	KMAB 4-13a	81.59	0.43	8.16	0.60		0.43	0.12	0.01	1.79		4.10	97.39	
R0511887	KMAB 4-14a	61.60	0.37	7.98	2.10		3.66	8.16	0.58	3.36		10.77	98.58	

LAB NO	FIELD NUMBER	Sr02	Ti02	Al203	Fe203	Fs0	Mn0	Ca0	Na20	K20	P205	Li1	TOTAL
		%	%	%	%	%	%	%	%	%	%	%	
R8511924	KHAB 6-1a	72.58	0.51	10.61	2.89		0.70	0.41	0.03	3.91	7.23	98.87	
R8511925	KHAB 6-4a	78.19	0.40	10.73	0.66		0.72	0.17	0.02	2.51	5.47	98.87	
R8511926	KHAB 6-4a	79.53	0.51	9.82	1.44		0.67	0.10	0.08	2.33	4.59	99.09	
R8511927	KHAB 6-3a	79.57	0.47	9.22	1.53		0.55	0.14	0.02	2.34	5.03	98.92	
R8511928	KHAB 6-5a	80.09	0.43	9.13	1.20		0.58	0.13	0.23	2.04	4.72	97.57	
R8511929	KHAB 6-6a	80.89	0.47	9.18	1.07		0.58	0.11	0.03	2.39	4.03	98.75	
R8511930	KHAB 6-6a	78.14	0.40	8.24	2.19		0.59	0.13	0.15	2.17	5.64	97.66	
R8511931	-KHAB 6-7a	79.46	0.49	9.74	1.39		0.58	0.10	0.02	2.57	4.17	98.73	
R8511932	KHAB 6-7a	77.27	0.35	7.04	0.63		0.58	0.10	0.08	1.37	4.00	92.16	
R8511933	KHAB 6-8a	79.46	0.46	9.52	1.04		0.46	0.04	0.05	2.31	4.72	98.06	
R8511934	-KHAB 6-8a	79.60	0.45	9.82	1.22		0.44	0.13	0.19	2.10	4.35	97.84	
R8511935	KHAB 6-9a	87.40	0.33	4.73	1.80		0.12	0.12	0.02	1.26	2.96	98.76	
R8511936	KHAB 6-9b	79.99	0.48	9.43	1.19		0.46	0.06	0.02	2.33	4.79	98.75	
R8511937	-KHAB 6-10a	79.91	0.50	9.87	1.17		0.45	0.08	0.04	2.34	4.11	98.47	
R8511938	KHAB 6-10a	80.46	0.45	8.83	1.12		0.48	0.12	0.09	2.30	4.42	98.29	
R8511939	KHAB 7-1a	75.11	0.30	6.19	1.74		0.57	0.15	0.75	1.33	4.98	91.12	
R8511940	-KHAB 7-2a	84.34	0.34	6.18	1.92		0.26	0.21	0.02	1.54	3.01	90.47	
R8511941	KHAB 7-2a	85.16	0.24	5.56	1.17		0.23	0.08	0.02	1.34	4.56	98.38	
R8511942	KHAB 7-3a	78.45	0.37	9.41	1.06		0.60	0.19	0.01	2.28	5.99	98.56	
R8511943	-KHAB 7-3a	83.44	0.37	7.22	1.49		0.25	0.13	0.02	1.02	3.97	98.91	
R8511944	KHAB 7-4a	77.91	0.48	9.69	1.48		0.44	0.15	0.01	2.34	5.27	97.77	
R8511945	-KHAB 7-4a	90.04	0.21	3.34	1.31		0.01	0.15	0.01	0.03	2.31	98.41	
R8511946	KHAB 7-5a	81.49	0.47	8.60	1.22		0.45	0.12	0.02	2.01	3.89	98.55	
R8511947	-KHAB 7-5a	78.35	0.46	9.28	1.45		0.52	0.13	0.06	2.10	5.35	97.70	
R8511948	KHAB 7-6a	76.06	0.48	10.69	1.26		0.66	0.18	0.24	2.74	5.22	97.53	
R8511949	-KHAB 7-6a	83.42	0.43	7.75	1.24		0.40	0.10	0.02	2.04	3.39	98.79	
R8511950	KHAB 7-7a	81.83	0.43	8.68	0.90		0.35	0.08	0.07	2.26	3.91	98.73	
R8511951	-KHAB 7-7a	79.33	0.50	9.52	1.34		0.56	0.13	0.03	2.47	4.47	98.59	
R8511952	KHAB 7-8a	79.65	0.47	9.10	1.37		0.55	0.14	0.01	2.30	4.27	97.94	
R8511953	-KHAB 7-9a	78.58	0.48	9.38	1.87		0.57	0.16	0.01	2.40	4.35	97.82	
R8511954	KHAB 7-14a	90.95	0.10	1.53	0.83		0.03	0.00	0.02	0.64	3.42	98.34	
R8511955	-KHAB 8-1a	58.81	0.36	7.11	2.13		5.95	0.26	0.03	2.94	13.46	99.85	
R8511956	KHAB 8-1a	77.01	0.28	4.71	1.40		2.69	4.17	0.14	2.35	6.57	99.52	
R8511957	-KHAB 8-4a	9.09	0.02	1.09	0.44		0.47	50.03	0.28	0.20	38.24	100.06	
R8511958	KHAB 8-4a	6.53	0.02	0.79	0.47		0.49	52.11	0.39	0.12	39.60	100.72	
R8511959	-KHAB 8-6a	56.22	0.41	7.45	2.41		6.34	9.01	0.03	2.52	14.97	99.34	

LAB NO	FIELD NUMBER	S102	T102	A1203	F1203	Fg0	Hg0	Mg0	Cd0	Na20	K20	P205	L03	TOTAL
		%	%	%	%	%	%	%	%	%	%	%	%	
R0511960	KMAB 8-4a	67.19	0.34	6.07	1.53			4.40	6.44	0.04	2.80	10.24	99.05	
R0511961	KMAB 8-7a	57.98	0.45	8.18	2.46			5.36	7.83	0.08	3.56	12.70	98.60	
R0511962	KMAB 8-7a	52.04	0.19	4.00	1.28			6.94	13.12	0.03	2.04	17.66	97.30	
R0511963	KMAB 8-8a	47.74	0.28	6.50	2.14			6.04	13.62	0.06	2.53	10.95	98.66	
R0511964	KMAB 8-8a	50.76	0.30	6.65	2.43			6.64	11.79	0.22	2.62	16.62	98.23	
R0511965	KMAB 8-9a	64.21	0.43	9.51	2.00			3.88	5.17	0.14	4.09	9.50	98.93	
R0511966	KMAB 8-9a	56.06	0.41	8.14	2.19			5.12	9.14	0.03	3.12	13.00	98.81	
R0511967	KMAB 8-10a	61.59	0.39	7.93	2.00			3.77	8.41	0.04	3.03	11.51	98.67	
R0511968	KMAB 9-11a	60.35	0.85	19.48	4.32			2.11	0.33	0.61	3.51	5.75	99.51	
R0511969	KMAB 9-11a	63.63	0.83	17.48	5.99			1.70	0.32	0.71	3.07	5.49	99.44	
R0511970	KMAB 9-12a	78.22	0.52	9.93	2.10			0.31	0.28	0.08	2.17	4.90	98.59	
R0511971	KMAB 9-12a	64.54	0.80	16.75	5.72			1.44	0.08	0.39	3.06	6.61	99.39	
R0511972	KMAB 9-13a	81.55	0.38	6.09	1.16			0.21	0.14	0.02	1.82	4.92	98.29	
R0511973	KMAB 9-13a	63.33	0.33	7.25	0.71			0.21	0.17	0.02	1.64	3.31	98.99	
R0511974	KMAB 9-14a	82.74	0.39	7.49	1.17			0.21	0.18	0.02	1.62	4.41	98.23	
R0511975	KMAB 9-14a	76.13	0.52	9.00	1.78			0.48	0.16	0.53	1.83	5.72	94.45	
R0511976	KMAB 9-15a	77.24	0.57	11.13	1.00			0.32	0.05	0.33	2.40	4.95	98.27	
R0511977	KMAB 9-15a	79.91	0.52	9.60	1.07			0.41	0.10	0.12	2.18	4.61	98.52	
R0511978	KMAB 9-16a	77.55	0.53	10.40	1.47			0.44	0.08	0.18	2.31	5.29	93.27	
R0511979	KMAB 9-16a	78.85	0.50	9.11	1.06			0.50	0.07	0.34	2.01	5.12	97.56	
R0511980	KMAB 9-17a	81.49	0.33	7.56	1.74			0.32	0.07	0.18	1.69	5.64	97.04	
R0511981	KMAB 9-17a	84.82	0.26	6.00	1.04			0.14	0.14	0.09	1.34	4.98	98.01	
R0511982	KMAB 9-18a	65.40	0.67	15.20	6.62			0.99	0.19	0.26	2.91	7.01	99.33	
R0511983	KMAB 9-18a	77.01	0.47	11.85	1.19			0.62	0.14	0.08	2.49	5.27	99.12	
R0511984	KMAB 9-19a	83.00	0.50	7.28	0.87			0.30	0.10	0.02	1.57	4.79	99.11	
R0511985	KMAB 9-19a	77.01	0.44	10.23	1.41			0.58	0.13	0.02	2.29	7.11	99.24	
R0511986	KMAB 9-22a	89.01	0.18	3.02	0.97			0.05	0.32	0.02	0.67	4.80	99.04	
R0511987	KMAB 9-22a	88.07	0.17	3.10	1.21			0.02	0.40	0.02	0.74	4.27	98.90	
R0511988	KMAB 10-1a	65.91	0.45	9.35	2.29			3.68	5.02	0.02	3.38	9.04	99.14	
R0511989	KMAB 10-1a	71.08	0.42	8.78	1.85			2.92	3.72	0.14	3.60	7.27	99.28	
R0511990	KMAB 10-3a	77.17	0.47	6.49	1.71			0.21	0.37	0.16	1.93	8.63	99.14	
R0511991	KMAB 10-3a	78.69	0.37	8.60	2.00			0.24	0.61	0.20	1.86	6.17	98.94	
R0511992	KMAB 10-4a	82.22	0.52	9.13	0.82			0.27	0.14	0.28	2.05	3.40	98.03	
R0511993	KMAB 10-4a	79.26	0.51	9.50	2.01			0.52	0.19	0.26	1.95	4.20	99.02	
R0511994	KMAB 10-5a	82.30	0.48	7.81	1.99			0.21	0.06	0.19	1.37	4.27	98.88	
R0511995	KMAB 10-5a	83.24	0.39	6.81	1.23			0.09	0.07	0.02	1.40	3.58	98.83	

LAB NO	FIELD NUMBER	S:O2 %	T:O2 %	Al:203 %	Fe:203 %	Fe:O %	Mg %	MgO %	Ca:O %	Na:2O %	K:2O %	P:2O5 %	LOI %	TOTAL %
R8511996	KHAB 10-6a	78.29	0.53	11.09	1.05		0.53	0.05	0.07	2.46		4.42	98.51	
R8511997	KHAB 10-6a	78.54	0.52	10.25	1.13		0.47	0.06	0.12	2.25		5.18	98.52	
R8511998	KHAB 10-7a	81.93	0.45	8.29	0.88		0.43	0.05	0.15	1.82		4.41	98.41	
R8511999	KHAB 10-7a	78.40	0.41	7.30	0.68		0.51	0.13	0.74	1.53		4.68	94.38	
R8512000	KHAB 10-8a	79.47	0.40	6.45	1.59		0.41	0.11	0.59	1.35		4.71	95.49	
R8512001	KHAB 10-8a	77.33	0.35	6.54	2.93		0.32	0.28	0.71	1.18		5.33	94.97	
R8512002	KHAB 10-9a	68.94	0.79	15.40	6.41		1.15	0.06	0.41	3.03		3.08	99.47	
R8512003	KHAB 10-9a	68.96	0.77	15.15	3.79		1.10	0.06	0.41	2.92		4.41	99.67	
R8512004	KHAB 10-10a	60.83	0.34	8.32	1.43		0.46	0.12	0.16	1.76		5.66	99.10	
R8512005	KHAB 10-10a	80.11	0.34	8.60	1.32		0.52	0.18	0.03	1.83		6.25	99.18	
R8512006	KHAB 8-11a	90.14	0.12	2.70	2.47		0.02	0.32	0.02	0.26		3.11	99.16	
R8512007	KHAB 8-11a	66.92	0.71	17.32	1.87		1.32	0.14	0.32	3.81		4.73	99.16	
R8512008	KHAB 8-11a	89.64	0.13	3.24	0.65		0.16	0.10	0.02	0.89		4.35	99.11	
R8512009	KHAB 8-12a	77.30	0.46	9.73	1.95		0.69	0.22	0.21	2.42		4.85	97.91	
R8512010	KHAB 8-12a	84.89	0.22	5.11	2.49		0.48	0.14	0.01	0.82		3.28	99.04	
R8512011	KHAB 8-13a	80.31	0.44	8.94	1.09		0.62	0.07	0.25	2.19		4.35	98.26	
R8512012	KHAB 8-13a	61.15	0.44	8.68	0.64		0.56	0.08	0.24	2.25		4.22	98.48	
R8512013	KHAB 8-14a	87.76	0.17	3.34	0.84		0.16	0.08	0.02	0.93		5.69	99.21	
R8512014	KHAB 8-14a	88.31	0.16	3.14	1.29		0.14	0.07	0.02	0.77		5.35	99.16	
R8512015	KHAB 8-15a	68.08	0.17	3.24	2.36		0.20	0.16	0.12	0.81		4.21	99.33	
R8512016	KHAB 8-15a	89.98	0.17	3.23	0.57		0.19	0.07	0.11	0.82		4.05	99.19	
R8512017	KHAB 8-16a	90.41	0.16	3.13	0.38		0.16	0.07	0.07	0.78		4.05	99.21	
R8512018	KHAB 8-16a	81.00	0.43	9.32	0.55		0.58	0.07	0.32	1.88		4.90	97.95	
R8512019	KHAB 8-17a	76.68	0.53	11.23	1.57		0.68	0.07	0.28	2.83		4.23	98.07	
R8512020	KHAB 8-17a	86.35	0.36	6.26	1.12		0.27	0.08	0.12	1.62		3.09	99.27	
R8512021	KHAB 8-18a	80.04	0.45	8.97	1.37		0.47	0.16	0.24	2.14		4.02	97.86	
R8512022	KHAB 8-18a	73.35	0.51	19.38	2.53		0.61	0.15	0.10	2.60		5.98	98.63	
R8512023	KHAB 8-19a	91.29	0.13	2.42	0.63		0.05	0.08	0.02	0.66		3.88	99.16	
R8512024	KHAB 8-19a	77.11	0.40	9.12	0.76		0.66	0.10	0.04	2.09		6.02	98.79	
R8512025	KHAB 8-20a	87.54	0.20	3.78	0.52		0.22	0.15	0.02	0.94		3.78	99.15	
R8512026	KHAB 8-20a	94.55	0.09	1.42	0.53		0.02	0.06	0.02	0.44		2.13	99.28	
R8512027	KHAB 8-21a	63.04	0.37	8.39	1.76		4.48	6.66	0.04	3.27		11.19	99.29	
R8512028	KHAB 8-21a	63.72	0.34	8.27	1.95		3.89	6.73	0.12	3.58		9.93	98.55	
R8512029	KHAB 9-1a	66.22	0.36	7.98	1.76		3.52	6.58	0.27	2.84		10.08	99.59	
R8512030	KHAB 9-1a	59.82	0.40	7.71	1.74		4.79	8.27	0.66	2.75		12.95	98.69	
R8512031	KHAB 9-2a	62.98	0.50	9.21	1.03		4.29	5.89	0.77	3.00		10.22	98.91	

LAB NO	FIELD NUMBER	SiO ₂		TiO ₂		Al ₂ O ₃		Fe ₂ O ₃		MnO		MnO ₂		CaO		Na ₂ O		K ₂ O		P ₂ O ₅		LOI		TOTAL	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
R0512032	KMAB 9-2a	62.03	0.41	0.17	2.07			4.57	7.23	1.00	2.57			10.80	98.65										
R0512033	KMAB 9-4a	59.55	0.47	0.08	2.19			5.10	7.31	0.68	3.07			12.40	99.05										
R0512034	KMAB 9-4a	53.97	0.41	0.00	2.14			6.43	9.29	0.59	3.12			15.22	99.16										
R0512035	KMAB 9-5a	51.69	0.38	0.18	1.99			7.17	10.42	0.20	3.17			16.65	99.04										
R0512036	KMAB 9-5a	50.60	0.42	0.02	2.21			6.97	10.93	0.20	2.89			16.96	99.20										
R0512037	KMAB 9-6a	44.05	0.46	0.47	2.14			3.51	5.18	0.04	3.45			8.96	99.26										
R0512038	KMAB 9-6a	75.56	0.48	0.66	1.28			1.89	2.02	0.06	3.52			5.11	99.58										
R0512039	KMAB 9-9a	63.32	0.01	18.00	5.37			1.41	0.25	0.41	3.47			6.49	99.93										
R0512040	KMAB 9-7a	63.29	0.84	17.40	6.42			1.94	0.42	0.51	3.16			5.75	99.93										
R0512041	KMAB 9-10a	65.36	0.79	17.11	6.06			1.43	0.17	0.63	3.10			5.35	100.00										
R0512042	KMAB 9-10a	49.03	0.36	0.11	1.42			0.81	4.83	0.10	3.96			8.28	96.90										

I=INSUFFICIENT SAMPLE R=SMALL SAMPLE E=EXCESS CALIBRATION C=BEING CHECKED P=REVISED

If requested analytes are not shown results are to follow

ANALYTICAL METHODS

FeO DETERMINED BY AELD DIGESTION /VOLUMETRIC, LOI DETERMINED GRAVIMETRICALLY

OTHER ELEMENTS BY Li BORATE FUSION/XRF, WHERE NO FeO VALUE SHOWN 'Fe2O3' IS TOTAL Fe AS Fe2O3

HISTOGRAM FOR ELEMENT PB

FREQUENCY

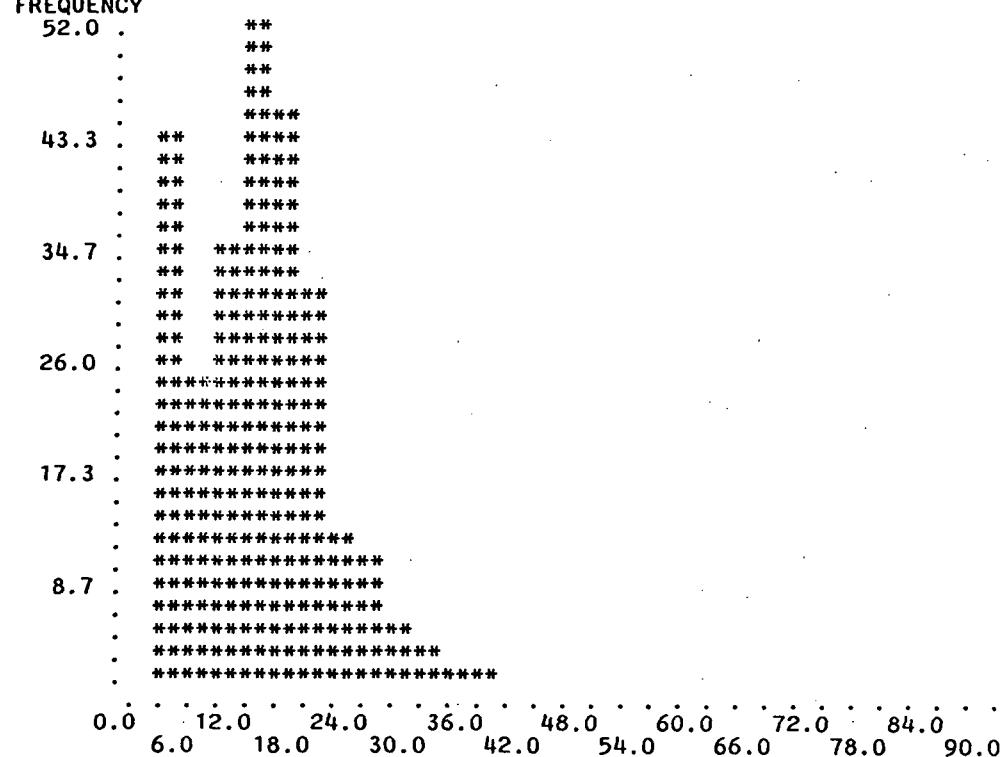


FIGURE : KWADGEO

TOTAL NUMBER OF SAMPLES PLOTTED = 255 ELEMENT PB
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 2 PERCENT OF POPULATION = 0.78

MEAN OF SAMPLES = 13.19
 STANDARD DEVIATION = 6.36
 MEDIAN OF SAMPLES = 13.00

PERCENT (TOTAL NUMBER OF DATA) 257 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 255

CLASS	INTERVAL	INTERVAL	FREQUENCY	PERCENT	ADJUSTED PERCENT	CUMULATIVE PERCENT	CLASS	INTERVAL	FREQUENCY	PERCENT	ADJUSTED PERCENT
	LOWER PT.	UPPER PT.									
1	0.00	-	3.00	0	0.00	0.00	<1.0		0	0.00	0.00
2	3.00	-	6.00	42	16.34	16.47	1. -	2.	0	0.00	0.00
3	6.00	-	9.00	24	9.34	9.41	2. -	3.	0	0.00	0.00
4	9.00	-	12.00	34	13.23	13.33	3. -	4.	0	0.00	0.00
5	12.00	-	15.00	52	20.23	20.39	4. -	5.	29	11.28	11.28
6	15.00	-	18.00	44	17.12	17.25	5. -	5.	13	5.06	16.34
7	18.00	-	21.00	30	11.67	11.76	6. -	7.	15	5.84	22.18
8	21.00	-	24.00	12	4.67	4.71	7. -	9.	15	5.84	28.02
9	24.00	-	27.00	9	3.50	3.53	8. -	11.	28	10.89	38.91
10	27.00	-	30.00	4	1.56	1.57	9. -	14.	52	20.23	59.14
11	30.00	-	33.00	2	0.78	0.78	10. -	18.	62	24.12	83.27
12	33.00	-	36.00	1	0.39	0.39	11. -	23.	24	9.34	92.61
13	36.00	-	39.00	1	0.39	0.39	12. -	29.	13	5.06	97.67
14	39.00	-	42.00	0	0.00	0.00	13. -	37.	4	1.56	99.22
15	42.00	-	45.00	0	0.00	0.00	14. -	46.	0	0.00	99.22
16	45.00	-	48.00	0	0.00	0.00	15. -	58.	0	0.00	99.22
17	48.00	-	51.00	0	0.00	0.00	16. -	74.	0	0.00	99.22
18	51.00	-	54.00	0	0.00	0.00	17. -	93.	1	0.39	99.61
19	54.00	-	57.00	0	0.00	0.00	18. -	117.	0	0.00	99.61
20	57.00	-	60.00	0	0.00	0.00	19. -	147.	0	0.00	99.61
21	60.00	-	63.00	0	0.00	0.00	20. -	186.	0	0.00	99.61
22	63.00	-	66.00	0	0.00	0.00	21. -	234.	0	0.00	99.61
23	66.00	-	69.00	0	0.00	0.00	22. -	295.	0	0.00	99.61
24	69.00	-	72.00	0	0.00	0.00	23. -	371.	0	0.00	99.61
25	72.00	-	75.00	0	0.00	0.00	24. -	467.	1	0.39	100.00
26	75.00	-	78.00	0	0.00	0.00	25. -	588.	0	0.00	100.00
27	78.00	-	81.00	0	0.00	0.00	26. -	741.	0	0.00	100.00
28	81.00	-	84.00	0	0.00	0.00	27. -	933.	0	0.00	100.00
29	84.00	-	87.00	0	0.00	0.00	28. -	1175.	0	0.00	100.00
30	87.00	-	90.00	0	0.00	0.00	29. -	1478.	0	0.00	100.00
31							30. -	> 2000.	0	0.00	100.00
TOTAL			255	99.22	100.00				257	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (90)

93.0 379.0

KWADGEO

NUMBER OF VALUES IS 256 VARIABLE NAME IS: PB
 CALCULATED PARAMETERS: MEAN= 14.9688 STD.DEV.= 24.2191 VARIANCE= 586.5637 NO.VALUES USED= 256

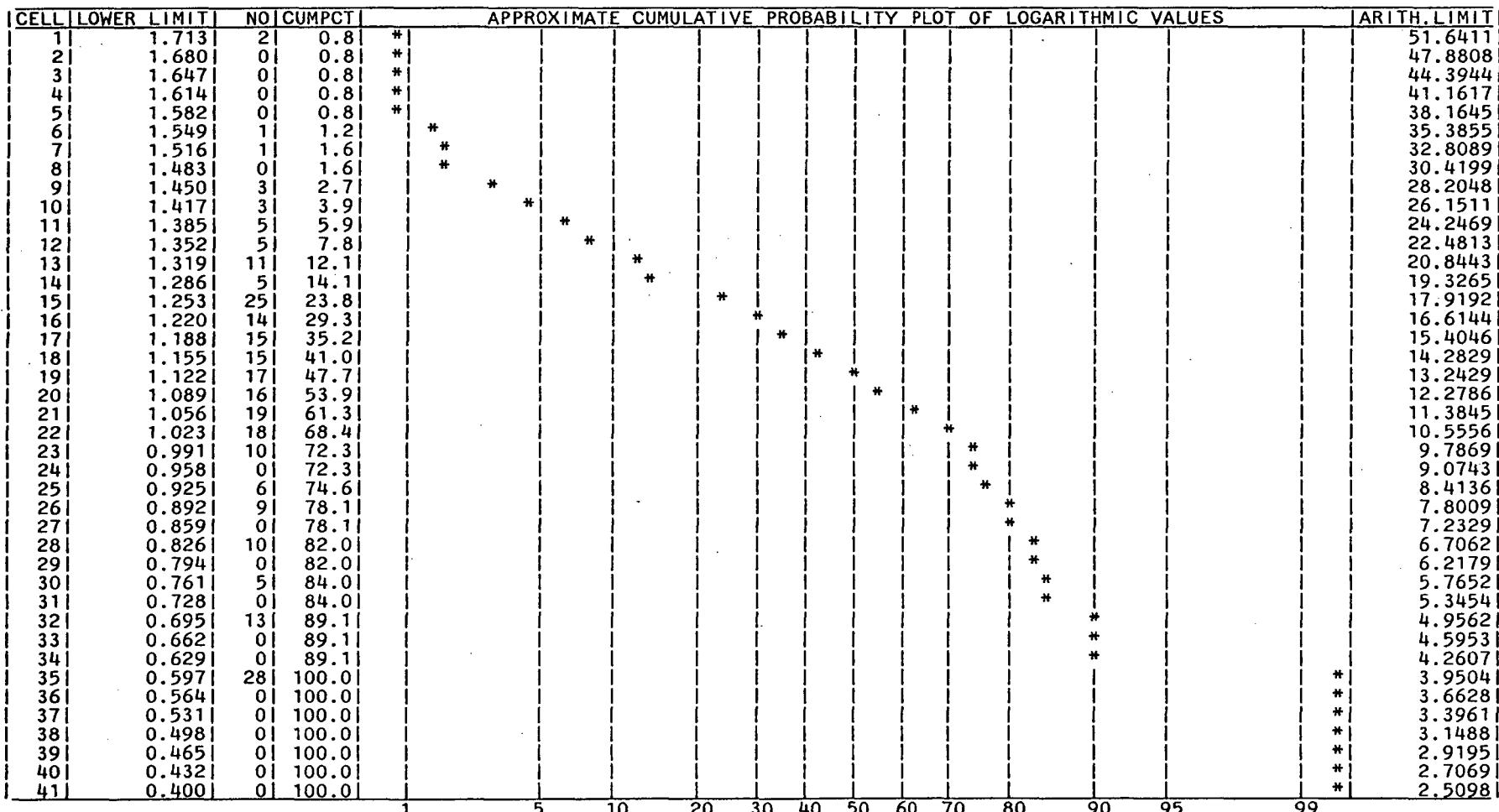
CELL	LOWER LIMIT	NO	PCT	PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES	LOG LIMIT
1	-48.6064	0	0.0	*****	*****
2	-42.5516	0	0.0	*****	*****
3	-36.4969	0	0.0	*****	*****
4	-30.4421	0	0.0	*****	*****
5	-24.3873	0	0.0	*****	*****
6	-18.3326	0	0.0	*****	*****
7	-12.2778	0	0.0	*****	*****
8	-6.2231	0	0.0	*****	*****
9	-0.1683	0	0.0	*****	*****
10	5.8865	41	16.0	*****	0.7699
11	11.9412	58	22.7	*****	1.0770
12	17.9960	96	37.5	*****	1.2552
13	24.0508	46	18.0	*****	1.3811
14	30.1056	11	4.3	****	1.4786
15	36.1604	1	0.4		1.5582
16	42.2151	1	0.4		1.6255
17	48.2699	0	0.0		1.6837
18	54.3247	0	0.0		1.7350
19	60.3795	0	0.0		1.7809
20	66.4342	0	0.0		1.8224
21	72.4890	0	0.0		1.8603

LOG VALUES.....: MEAN= 1.0727 STD.DEV.= 0.2627 VARIANCE= 0.0690 NO. VALUES= 256

CELL	LOWER LIMIT	NO	PCT	PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES	ARITH.LIMIT
1	0.3832	0	0.0	*****	2.4167
2	0.4489	0	0.0	*****	2.8112
3	0.5146	0	0.0	*****	3.2701
4	0.5802	0	0.0	*****	3.8039
5	0.6459	28	10.9	*****	4.4248
6	0.7116	13	5.1	****	5.1471
7	0.7772	0	0.0	*****	5.9873
8	0.8429	5	2.0	**	6.9646
9	0.9086	19	7.4	*****	8.1015
10	0.9742	6	2.3	**	9.4239
11	1.0399	10	3.9	****	10.9622
12	1.1056	37	14.5	*****	12.7517
13	1.1712	33	12.9	*****	14.8332
14	1.2369	44	17.2	*****	17.2545
15	1.3026	30	11.7	*****	20.0711
16	1.3682	12	4.7	****	23.3474
17	1.4339	11	4.3	****	27.1586
18	1.4996	4	1.6	**	31.5918
19	1.5652	1	0.4		36.7488
20	1.6309	1	0.4		42.7476
21	1.6966	0	0.0		49.7255

KWADGEQ

VARIABLE NAME IS: PB



KWADGEO

VARIABLE NAME IS: PB

CELL	LOWER LIMIT	NO	CUMPCT	APPROXIMATE CUMULATIVE PROBABILITY PLOT OF ARITHMETIC VALUES	LOG LIMIT
1	74.002	2	0.8	*	1.8692
2	70.975	0	0.8	*	1.8511
3	67.947	0	0.8	*	1.8322
4	64.920	0	0.8	*	1.8124
5	61.893	0	0.8	*	1.7916
6	58.865	0	0.8	*	1.7699
7	55.838	0	0.8	*	1.7469
8	52.811	0	0.8	*	1.7227
9	49.783	0	0.8	*	1.6971
10	46.756	0	0.8	*	1.6698
11	43.728	0	0.8	*	1.6408
12	40.701	0	0.8	*	1.6096
13	37.674	0	0.8	*	1.5760
14	34.646	1	1.2	*	1.5397
15	31.619	1	1.6	*	1.4999
16	28.592	3	2.7	*	1.4562
17	25.564	4	4.3	*	1.4076
18	22.537	9	7.8	*	1.3529
19	19.509	16	14.1	*	1.2902
20	16.482	39	29.3	*	1.2170
21	13.455	47	47.7	*	1.1289
22	10.427	53	68.4	*	1.0182
23	7.400	25	78.1	*	0.8692
24	4.373	28	89.1	*	0.6407
25	1.345	28	100.0	*	0.1288
26	-1.682	0	100.0	*****	
27	-4.710	0	100.0	*****	
28	-7.737	0	100.0	*****	
29	-10.764	0	100.0	*****	
30	-13.792	0	100.0	*****	
31	-16.819	0	100.0	*****	
32	-19.846	0	100.0	*****	
33	-22.874	0	100.0	*****	
34	-25.901	0	100.0	*****	
35	-28.928	0	100.0	*****	
36	-31.956	0	100.0	*****	
37	-34.983	0	100.0	*****	
38	-38.011	0	100.0	*****	
39	-41.038	0	100.0	*****	
40	-44.065	0	100.0	*****	
41	-47.093	0	100.0	*****	

STATISTICAL SUMMARY

NAME	NO. OF VALUES	ARITHMETIC		LOGARITHMIC	
		MEAN	STD. DEV.	MEAN	STD. DEV.
PB	256	14.969	24.219	1.073	0.263

HISTOGRAM FOR ELEMENT ZN

FREQUENCY

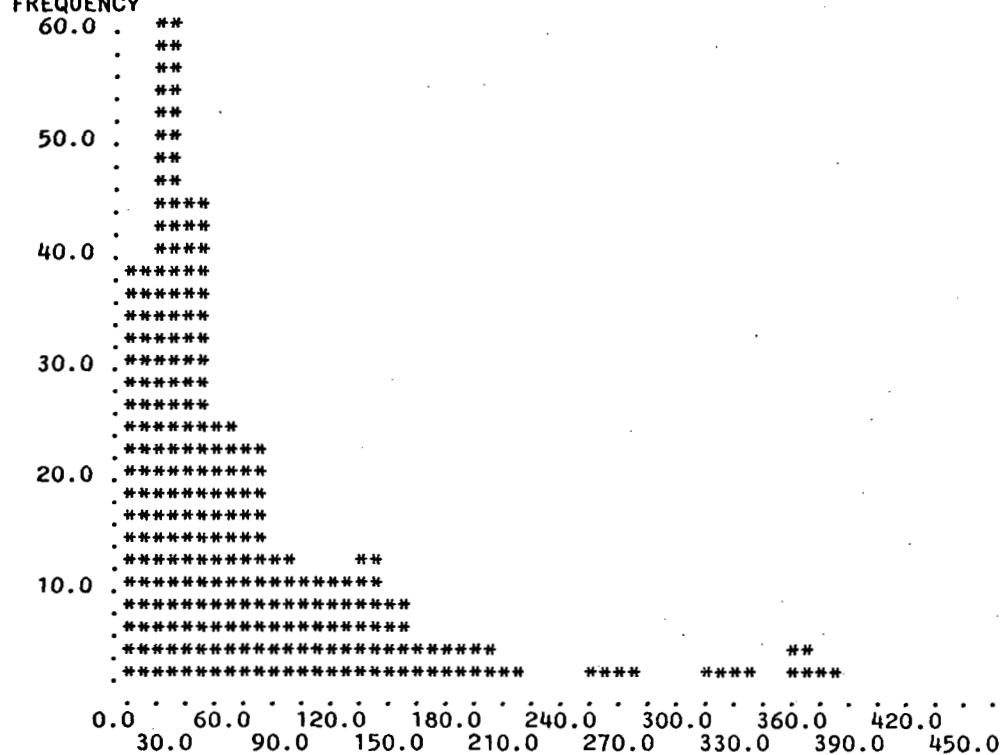


FIGURE : KWADGEO

TOTAL NUMBER OF SAMPLES PLOTTED = 257 ELEMENT ZN
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 0 PERCENT OF POPULATION = 0.00

MEAN OF SAMPLES = 63.93
 STANDARD DEVIATION = 67.76
 MEDIAN OF SAMPLES = 38.50

PERCENT (TOTAL NUMBER OF DATA) 257 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 257

CLASS	INTERVAL	INTERVAL	FREQUENCY	ADJUSTED	CUMULATIVE	CLASS	INTERVAL	FREQUENCY	PERCENT	PERCENT
	LOWER PT.	UPPER PT.		PERCENT	PERCENT		INTERVAL			
1	0.00	-	15.00	38	14.79	14.79	<1.0	0	0.00	0.00
2	15.00	-	30.00	60	23.35	38.13	1. -	1	0.39	0.39
3	30.00	-	45.00	43	16.73	54.86	2. -	3	0.00	0.39
4	45.00	-	60.00	24	9.34	64.20	3. -	4	0.00	0.39
5	60.00	-	75.00	22	8.56	72.76	4. -	5	1	0.39
6	75.00	-	90.00	11	4.28	77.04	5. -	5	1	0.39
7	90.00	-	105.00	9	3.50	80.54	6. -	7	6	2.33
8	105.00	-	120.00	9	3.50	84.05	8. -	9	12	4.67
9	120.00	-	135.00	11	4.28	88.33	10. -	11	8	3.11
10	135.00	-	150.00	7	2.72	91.05	12. -	14	9	3.50
11	150.00	-	165.00	4	1.56	92.61	15. -	18	17	6.61
12	165.00	-	180.00	4	1.56	94.16	19. -	23	23	8.95
13	180.00	-	195.00	3	1.17	95.33	24. -	29	20	7.78
14	195.00	-	210.00	2	0.78	96.11	30. -	37	28	10.89
15	210.00	-	225.00	0	0.00	96.11	38. -	46	16	6.23
16	225.00	-	240.00	0	0.00	96.11	47. -	58	21	8.17
17	240.00	-	255.00	1	0.39	96.50	59. -	74	24	9.34
18	255.00	-	270.00	2	0.78	97.28	75. -	93	15	5.84
19	270.00	-	285.00	0	0.00	97.28	94. -	117	14	5.45
20	285.00	-	300.00	0	0.00	97.28	118. -	147	18	7.00
21	300.00	-	315.00	2	0.78	98.05	148. -	186	9	3.50
22	315.00	-	330.00	1	0.39	98.44	187. -	234	4	1.56
23	330.00	-	345.00	0	0.00	98.44	235. -	295	3	1.17
24	345.00	-	360.00	3	1.17	99.61	296. -	371	7	2.72
25	360.00	-	375.00	1	0.39	100.00	372. -	467	0	0.00
26	375.00	-	390.00	0	0.00	100.00	468. -	588	0	0.00
27	390.00	-	405.00	0	0.00	100.00	589. -	741	0	0.00
28	405.00	-	420.00	0	0.00	100.00	742. -	933	0	0.00
29	420.00	-	435.00	0	0.00	100.00	934. -	1175	0	0.00
30	435.00	-	450.00	0	0.00	100.00	1176. -	1478	0	0.00
31							1479. -	2000	0	0.00
							>	2000	0	100.00
TOTAL			257	100.00	100.00			257	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (450)

NO DATA ABOVE MAXIMUM VALUE

KWADGEO

NUMBER OF VALUES IS 256 VARIABLE NAME IS: ZN
 CALCULATED PARAMETERS: MEAN= 63.9492 STD.DEV.= 67.8916 VARIANCE= 4609.2695 NO.VALUES USED= 256

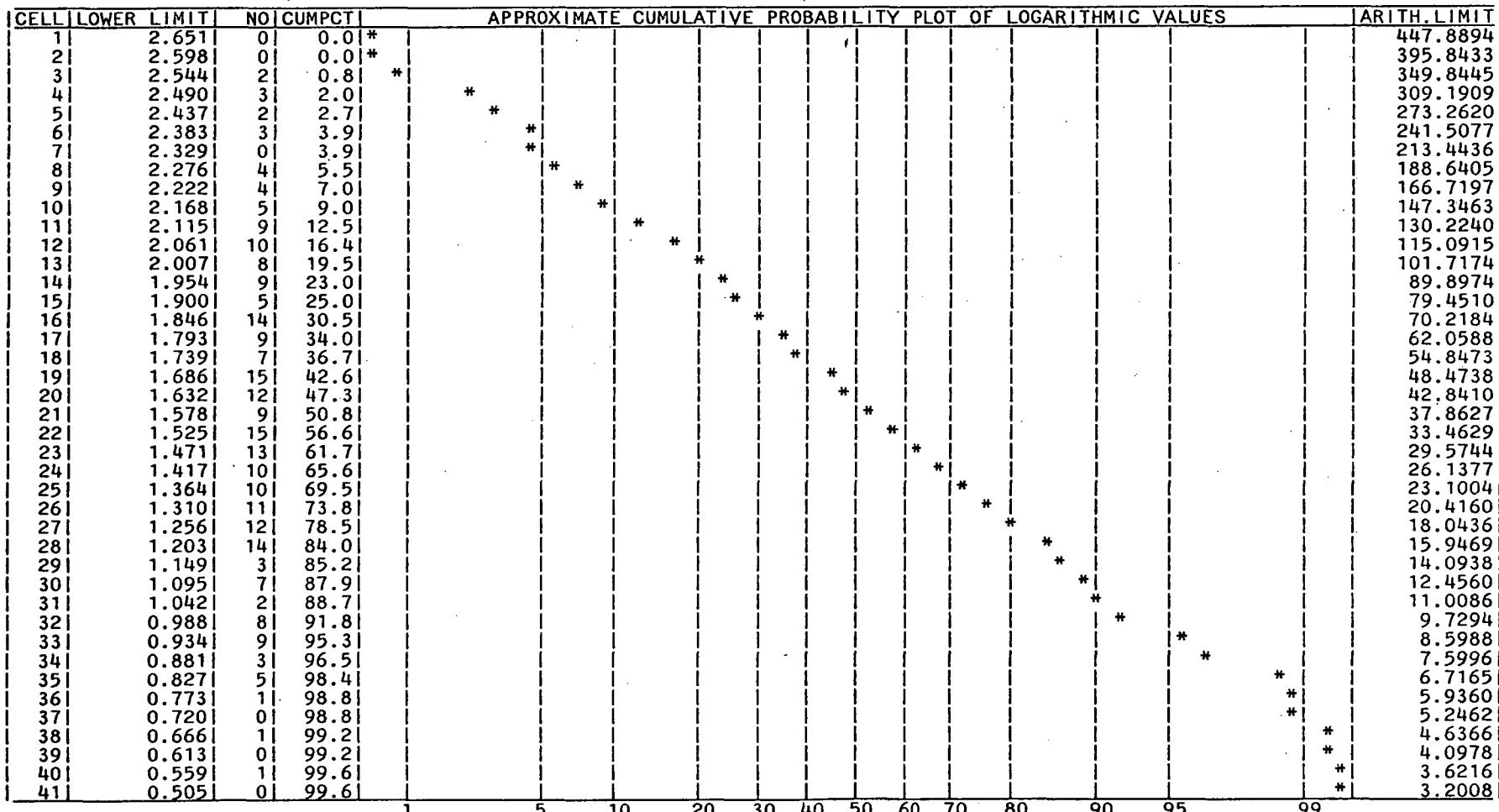
CELL	LOWER LIMIT	NO	PCT	PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES	LOG LIMIT
1	-114.2662	0	0.0	*****	*****
2	-97.2933	0	0.0	*****	*****
3	-80.3204	0	0.0	*****	*****
4	-63.3475	0	0.0	*****	*****
5	-46.3746	0	0.0	*****	*****
6	-29.4017	0	0.0	*****	*****
7	-12.4288	0	0.0	*****	*****
8	4.5441	2	0.8	*	0.6574
9	21.5170	71	27.7	*****	1.3328
10	38.4899	55	21.5	*****	1.5853
11	55.4628	34	13.3	*****	1.7440
12	72.4357	20	7.8	*****	1.8600
13	89.4086	15	5.9	*****	1.9514
14	106.3815	12	4.7	*****	2.0269
15	123.3544	10	3.9	***	2.0912
16	140.3273	9	3.5	***	2.1471
17	157.3002	7	2.7	***	2.1967
18	174.2731	5	2.0	**	2.2412
19	191.2460	3	1.2	*	2.2816
20	208.2189	3	1.2	*	2.3185
21	225.1918	0	0.0		2.3526

LOG VALUES.....: MEAN= 1.6051 STD.DEV.= 0.4292 VARIANCE= 0.1842 NO. VALUES= 256

CELL	LOWER LIMIT	NO	PCT	PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES	ARITH.LIMIT
1	0.4784	0	0.0		3.0092
2	0.5857	0	0.0		3.8525
3	0.6930	1	0.4		4.9322
4	0.8003	2	0.8	*	6.3144
5	0.9076	8	3.1	***	8.0840
6	1.0149	15	5.9	*****	10.3496
7	1.1222	7	2.7	***	13.2500
8	1.2295	14	5.5	*****	16.9634
9	1.3368	25	9.8	*****	21.7173
10	1.4441	20	7.8	*****	27.8037
11	1.5514	25	9.8	*****	35.5956
12	1.6587	23	9.0	*****	45.5713
13	1.7660	22	8.6	*****	58.3427
14	1.8733	23	9.0	*****	74.6933
15	1.9806	17	6.6	*****	95.6262
16	2.0879	16	6.3	*****	122.4255
17	2.1952	16	6.3	*****	156.7354
18	2.3025	9	3.5	***	200.6606
19	2.4098	4	1.6	**	256.8958
20	2.5171	4	1.6	**	328.8911
21	2.6243	4	1.6	**	421.0627

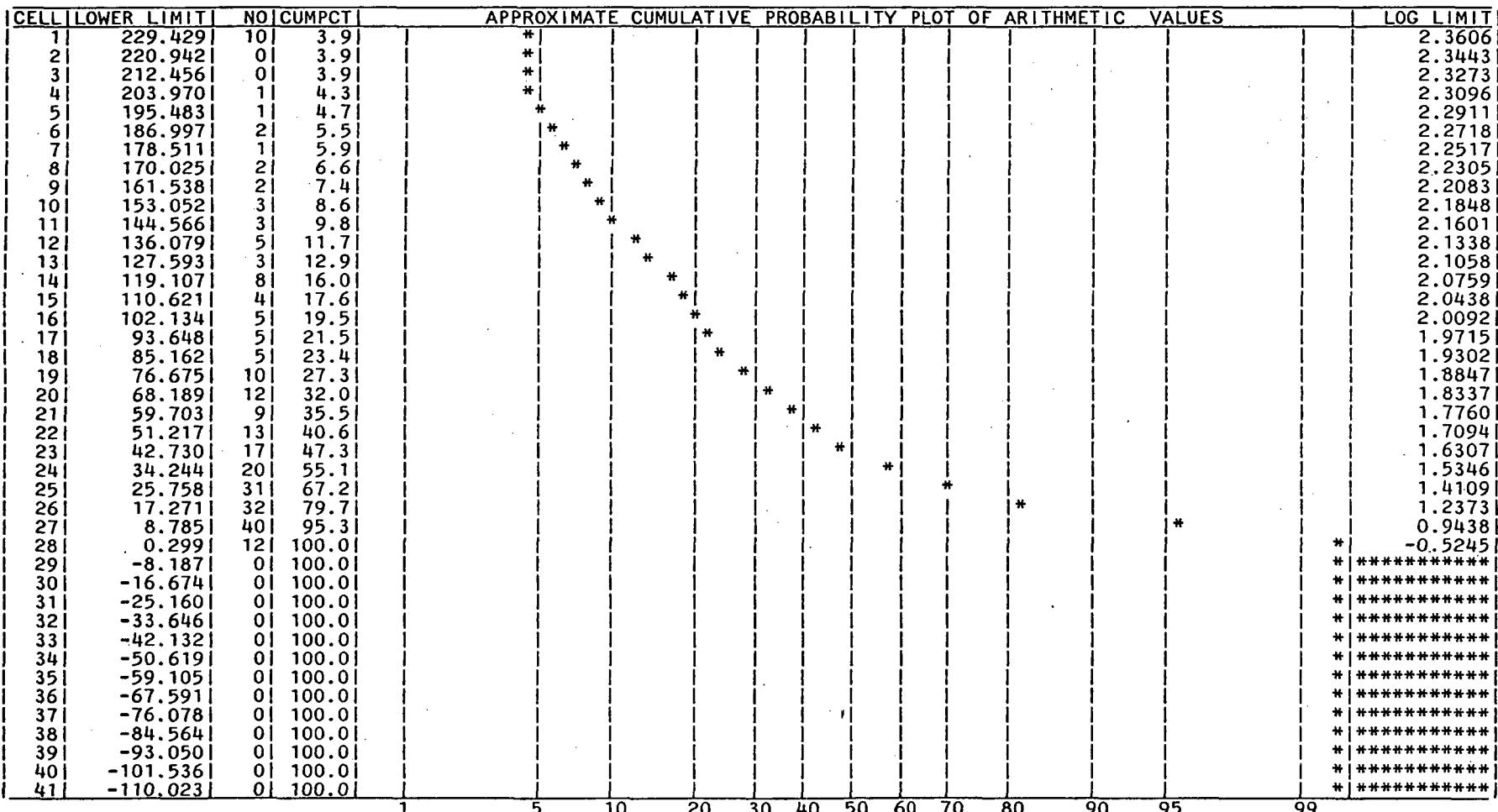
KWADGEO

VARIABLE NAME IS: ZN



KWADGEO

VARIABLE NAME IS: ZN



STATISTICAL SUMMARY

NAME	NO. OF VALUES	ARITHMETIC		LOGARITHMIC	
		MEAN	STD. DEV.	MEAN	STD. DEV.
ZN	256	63.9461	67.8901	1.605	0.4291

HISTOGRAM FOR ELEMENT BA

FREQUENCY

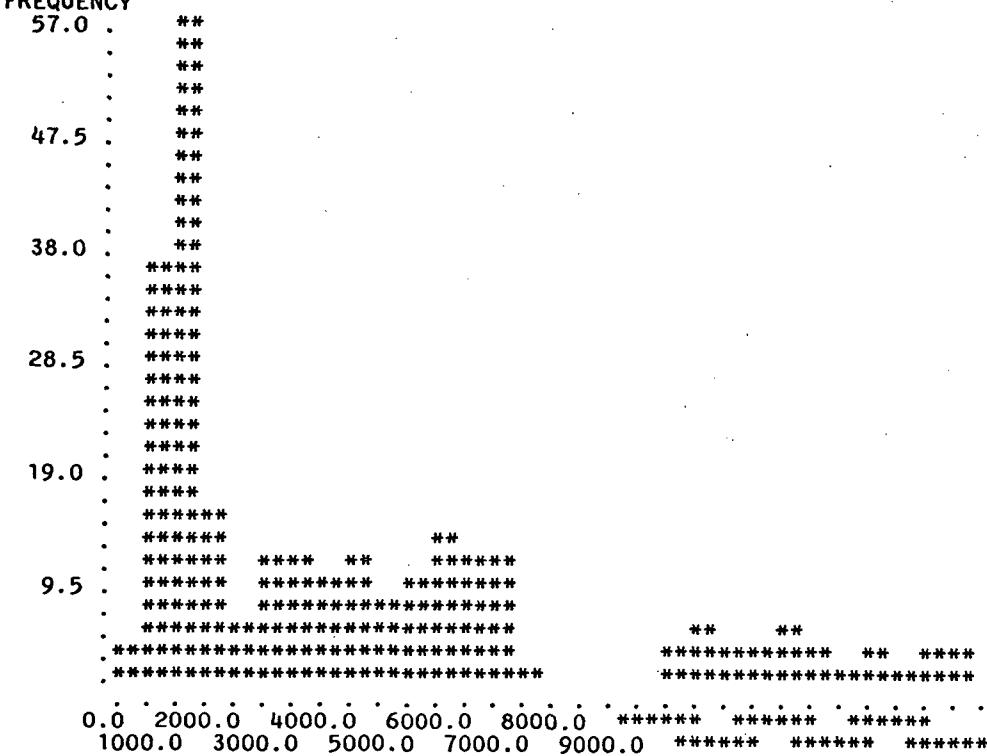


FIGURE : KWADGEO

TOTAL NUMBER OF SAMPLES PLOTTED = 232 ELEMENT BA
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 25 PERCENT OF POPULATION = 9.73

MEAN OF SAMPLES = 3910.69
 STANDARD DEVIATION = 3618.25
 MEDIAN OF SAMPLES = 2582.00

PERCENT (TOTAL NUMBER OF DATA) 257 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 232

CLASS	INTERVAL	INTERVAL	FREQUENCY	PERCENT	ADJUSTED PERCENT	CUMULATIVE PERCENT	CLASS	INTERVAL	FREQUENCY	PERCENT	PERCENT
	LOWER PT.	UPPER PT.									
1	0.00	-	500.00	2	0.78	0.86	<1.0		0	0.00	0.00
2	500.00	-	1000.00	36	14.01	15.52	16.38	1.	-	2.	0.00
3	1000.00	-	1500.00	57	22.18	24.57	40.95	2.	-	3.	0.00
4	1500.00	-	2000.00	14	5.45	6.03	46.98	3.	-	4.	0.00
5	2000.00	-	2500.00	5	1.95	2.16	49.14	4.	-	5.	0.00
6	2500.00	-	3000.00	10	3.89	4.31	53.45	5.	-	5.	0.00
7	3000.00	-	3500.00	10	3.89	4.31	57.76	6.	-	7.	0.00
8	3500.00	-	4000.00	9	3.50	3.88	61.64	8.	-	9.	0.00
9	4000.00	-	4500.00	10	3.89	4.31	65.95	10.	-	11.	0.00
10	4500.00	-	5000.00	7	2.72	3.02	68.97	12.	-	14.	0.00
11	5000.00	-	5500.00	9	3.50	3.88	72.84	15.	-	18.	0.00
12	5500.00	-	6000.00	12	4.67	5.17	78.02	19.	-	23.	0.00
13	6000.00	-	6500.00	11	4.28	4.74	82.76	24.	-	29.	0.00
14	6500.00	-	7000.00	10	3.89	4.31	87.07	30.	-	37.	0.00
15	7000.00	-	7500.00	1	0.39	0.43	87.50	38.	-	46.	0.00
16	7500.00	-	8000.00	0	0.00	0.00	87.50	47.	-	58.	0.00
17	8000.00	-	8500.00	0	0.00	0.00	87.50	59.	-	74.	0.00
18	8500.00	-	9000.00	0	0.00	0.00	87.50	75.	-	93.	0.00
19	9000.00	-	9500.00	0	0.00	0.00	87.50	94.	-	117.	0.00
20	9500.00	-	10000.00	3	1.17	1.29	88.79	118.	-	147.	0.00
21	10000.00	-	10500.00	5	1.95	2.16	90.95	148.	-	186.	0.00
22	10500.00	-	11000.00	3	1.17	1.29	92.24	187.	-	234.	0.00
23	11000.00	-	11500.00	2	0.78	0.86	93.10	235.	-	295.	0.00
24	11500.00	-	12000.00	5	1.95	2.16	95.26	296.	-	371.	0.00
25	12000.00	-	12500.00	2	0.78	0.86	96.12	372.	-	467.	1
26	12500.00	-	13000.00	1	0.39	0.43	96.55	468.	-	588.	5
27	13000.00	-	13500.00	2	0.78	0.86	97.41	589.	-	741.	7
28	13500.00	-	14000.00	1	0.39	0.43	97.84	742.	-	933.	18
29	14000.00	-	14500.00	2	0.78	0.86	98.71	934.	-	1175.	36
30	14500.00	-	15000.00	3.	1.17	1.29	100.00	1176.	-	1478.	26
31								1479.	-	2000.	16
									>	2000.	148
											57.59
											100.00
TOTAL		232	90.27	100.00					257	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (15000)

15134.0 30942.0 18226.0 60616.0 18015.0 16670.0 34947.0 35581.0 38636.0 16135.0
 53472.0 15493.0 63656.0 15914.0 15520.0 17723.0 30732.0 16886.0 39934.0 32395.0
 33320.0 16459.0 16990.0 15130.0 15740.0

KWADGEO

NUMBER OF VALUES IS 256 VARIABLE NAME IS: BA
 CALCULATED PARAMETERS: MEAN= 6213.4531 STD.DEV.= 9010.5078 VARIANCE=***** NO. VALUES USED= 256

CELL	LOWER LIMIT	NO	PCT	PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES	LOG LIMIT
1	-17439.1406	0	0.0	*****	*****
2	-15186.5156	0	0.0	*****	*****
3	-12933.8906	0	0.0	*****	*****
4	-10681.2656	0	0.0	*****	*****
5	-8428.6406	0	0.0	*****	*****
6	-6176.0156	0	0.0	*****	*****
7	-3923.3906	0	0.0	*****	*****
8	-1670.7637	0	0.0	*****	*****
9	581.8633	6	2.3	**	2.7648
10	2834.4902	112	43.8	*****	3.4525
11	5087.1172	41	16.0	*****	3.7065
12	7339.7461	43	16.8	*****	3.8657
13	9592.3750	0	0.0	*****	3.9819
14	11845.0039	17	6.6	*****	4.0735
15	14097.6328	8	3.1	***	4.1491
16	16350.2617	11	4.3	***	4.2135
17	18602.8906	7	2.7	***	4.2696
18	20855.5195	0	0.0	*****	4.3192
19	23108.1484	0	0.0	*****	4.3638
20	25360.7773	0	0.0	*****	4.4042
21	27613.4062	0	0.0	*****	4.4411

LOG VALUES.....: MEAN= 3.5076 STD.DEV.= 0.4853 VARIANCE= 0.2355 NO. VALUES= 256

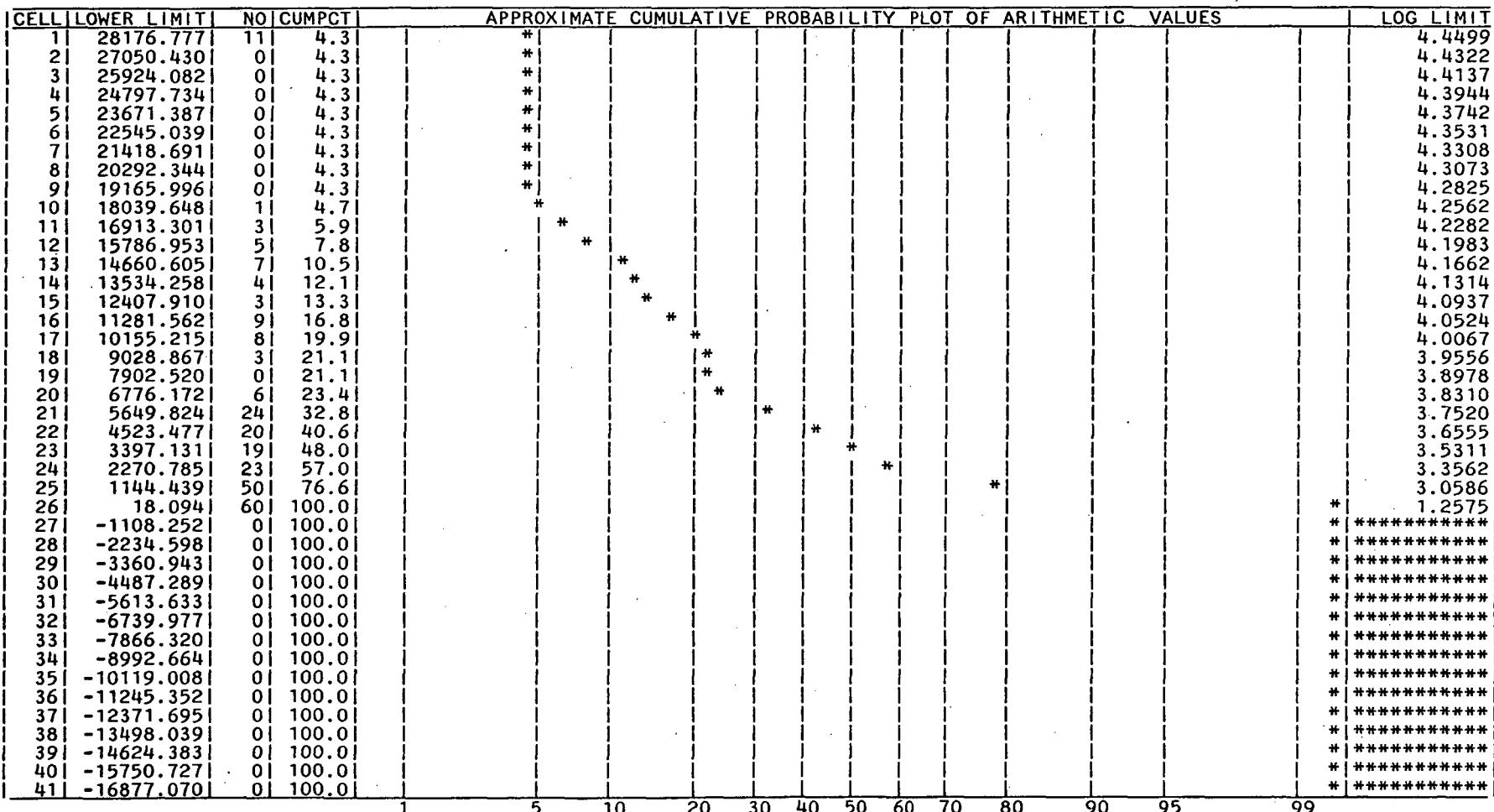
CELL	LOWER LIMIT	NO	PCT	PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES	ARITH.LIMIT
1	2.2336	0	0.0	*****	171.2556
2	2.3550	0	0.0	*****	226.4524
3	2.4763	0	0.0	*****	299.4395
4	2.5976	1	0.4	*****	395.9507
5	2.7190	2	0.8	*	523.5684
6	2.8403	8	3.1	***	692.3176
7	2.9616	16	6.3	*****	915.4563
8	3.0830	41	16.0	*****	1210.5144
9	3.2043	30	11.7	*****	1600.6702
10	3.3256	10	3.9	****	2116.5774
11	3.4470	10	3.9	****	2798.7649
12	3.5683	20	7.8	*****	3700.8230
13	3.6896	21	8.2	*****	4893.6250
14	3.8110	31	12.1	*****	6470.8672
15	3.9323	12	4.7	*****	8556.4727
16	4.0536	11	4.3	***	11314.2852
17	4.1750	18	7.0	*****	14960.9414
18	4.2963	14	5.5	*****	19782.9609
19	4.4176	0	0.0	*****	26159.1445
20	4.5390	4	1.6	**	34590.3867
21	4.6603	4	1.6	**	45739.1133

KWADGEO

VARIABLE NAME IS: BA

KWADGEO

VARIABLE NAME IS: BA



STATISTICAL SUMMARY

NAME	NO. OF VALUES	ARITHMETIC		LOGARITHMIC	
		MEAN	STD. DEV.	MEAN	STD. DEV.
BA	256	6213.039	9010.766	3.508	0.4851

HISTOGRAM FOR ELEMENT HG

FREQUENCY

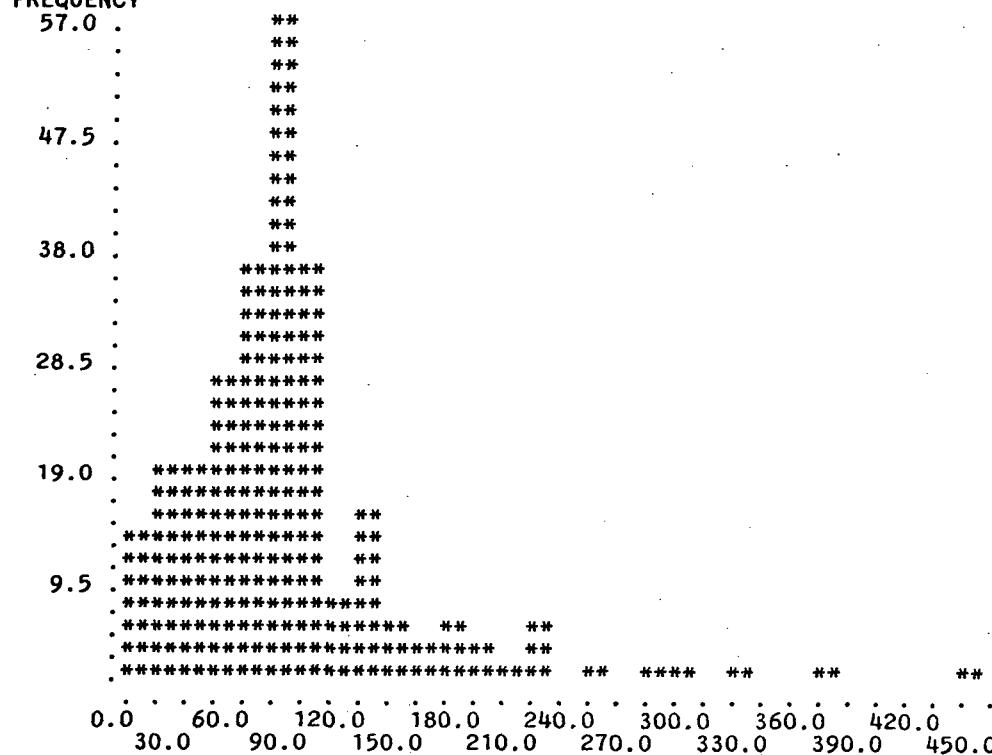


FIGURE : KWADGEO

TOTAL NUMBER OF SAMPLES PLOTTED = 253 ELEMENT HG
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 4 PERCENT OF POPULATION = 1.56

MEAN OF SAMPLES = 83.78
 STANDARD DEVIATION = 56.39
 MEDIAN OF SAMPLES = 80.00

PERCENT (TOTAL NUMBER OF DATA) 257 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 253

CLASS	INTERVAL	INTERVAL	FREQUENCY	ADJUSTED	CUMULATIVE	CLASS	INTERVAL	FREQUENCY	PERCENT	PERCENT
	LOWER PT.	UPPER PT.		PERCENT	PERCENT		PERCENT		PERCENT	PERCENT
1	0.00 -	15.00	13	5.06	5.14	<1.0	-	0	0.00	0.00
2	15.00 -	30.00	19	7.39	7.51	1. -	2.	0	0.00	0.00
3	30.00 -	45.00	19	7.39	7.51	2. -	3.	0	0.00	0.00
4	45.00 -	60.00	26	10.12	10.28	3. -	4.	0	0.00	0.00
5	60.00 -	75.00	36	14.01	14.23	4. -	5.	0	0.00	0.00
6	75.00 -	90.00	57	22.18	22.53	5. -	5.	0	0.00	0.00
7	90.00 -	105.00	36	14.01	14.23	6. -	7.	0	0.00	0.00
8	105.00 -	120.00	7	2.72	2.77	8. -	9.	0	0.00	0.00
9	120.00 -	135.00	14	5.45	5.53	10. -	11.	12	4.67	4.67
10	135.00 -	150.00	5	1.95	1.98	12. -	14.	1	0.39	5.06
11	150.00 -	165.00	3	1.17	1.19	15. -	18.	1	0.39	5.45
12	165.00 -	180.00	5	1.95	1.98	19. -	23.	11	4.28	9.73
13	180.00 -	195.00	2	0.78	0.79	24. -	29.	7	2.72	12.45
14	195.00 -	210.00	1	0.39	0.40	30. -	37.	11	4.28	16.73
15	210.00 -	225.00	4	1.56	1.58	38. -	46.	14	5.45	22.18
16	225.00 -	240.00	0	0.00	0.00	47. -	58.	16	6.23	28.40
17	240.00 -	255.00	1	0.39	0.40	59. -	74.	40	15.56	43.97
18	255.00 -	270.00	0	0.00	0.00	75. -	93.	68	26.46	70.43
19	270.00 -	285.00	1	0.39	0.40	94. -	117.	32	12.45	82.88
20	285.00 -	300.00	1	0.39	0.40	118. -	147.	19	7.39	90.27
21	300.00 -	315.00	0	0.00	0.00	148. -	186.	10	3.89	94.16
22	315.00 -	330.00	1	0.39	0.40	187. -	234.	5	1.95	96.11
23	330.00 -	345.00	0	0.00	0.00	235. -	295.	3	1.17	97.28
24	345.00 -	360.00	0	0.00	0.00	296. -	371.	2	0.78	98.05
25	360.00 -	375.00	1	0.39	0.40	372. -	467.	2	0.78	98.83
26	375.00 -	390.00	0	0.00	0.00	468. -	588.	1	0.39	99.22
27	390.00 -	405.00	0	0.00	0.00	589. -	741.	2	0.78	100.00
28	405.00 -	420.00	0	0.00	0.00	742. -	933.	0	0.00	100.00
29	420.00 -	435.00	0	0.00	0.00	934. -	1175.	0	0.00	100.00
30	435.00 -	450.00	1	0.39	0.40	1176. -	1478.	0	0.00	100.00
31						1479. -	2000.	0	0.00	100.00
						>	2000.	0	0.00	100.00
TOTAL			253	98.44	100.00			257	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (450)

450.0 720.0 505.0 630.0

KWADGEO

NUMBER OF VALUES IS 256 VARIABLE NAME IS: HG
 CALCULATED PARAMETERS: MEAN= 91.3203 STD.DEV.= 84.0157 VARIANCE= 7058.6406 NO.VALUES USED= 256

CELL	LOWER LIMIT	NO	PCT	PERCENTAGE HISTOGRAM OF ARITHMETIC VALUES	LOG LIMIT
1	-129.22121	0	0.0	*****	*****
2	-108.21731	0	0.0	*****	*****
3	-87.21341	0	0.0	*****	*****
4	-66.20951	0	0.0	*****	*****
5	-45.20561	0	0.0	*****	*****
6	-24.20161	0	0.0	*****	*****
7	-3.19771	0	0.0	*****	*****
8	17.80621	14	5.5	*****	1.2506
9	38.81011	30	11.7	*****	1.5889
10	59.81411	33	12.9	*****	1.7768
11	80.81801	50	19.5	*****	1.9075
12	101.82191	79	30.9	*****	2.0078
13	122.82581	8	3.1	***	2.0893
14	143.82971	17	6.6	*****	2.1578
15	164.83371	3	1.2	*	2.2170
16	185.83761	7	2.7	***	2.2691
17	206.84151	1	0.4		2.3156
18	227.84541	4	1.6	**	2.3576
19	248.84931	1	0.4		2.3959
20	269.85331	0	0.0		2.4311
21	290.85741	2	0.8	*	2.4637

LOG VALUES.....: MEAN= 1.8438 STD.DEV.= 0.3257 VARIANCE= 0.1061 NO. VALUES= 256

CELL	LOWER LIMIT	NO	PCT	PERCENTAGE HISTOGRAM OF LOGARITHMIC VALUES	ARITH.LIMIT
1	0.98891	0	0.0	*****	9.74651
2	1.07031	12	4.7	*****	11.75641
3	1.15171	1	0.4		14.18081
4	1.23311	1	0.4		17.10511
5	1.31461	4	1.6	**	20.63251
6	1.39501	7	2.7	***	24.88731
7	1.47741	7	2.7	***	30.01951
8	1.55881	11	4.3	*****	36.21001
9	1.64031	8	3.1	***	43.67721
10	1.72171	20	7.8	*****	52.68411
11	1.80311	16	6.3	*****	63.54851
12	1.88451	33	12.9	*****	76.65341
13	1.96601	60	23.4	*****	92.46061
14	2.04741	29	11.3	*****	111.52761
15	2.12881	17	6.6	*****	134.52661
16	2.21021	8	3.1	***	162.26841
17	2.29171	7	2.7	***	195.73101
18	2.37311	5	2.0	**	236.09411
19	2.45451	2	0.8	*	284.78081
20	2.53591	2	0.8	*	343.50781
21	2.61741	1	0.4		414.34501

KWADGEO

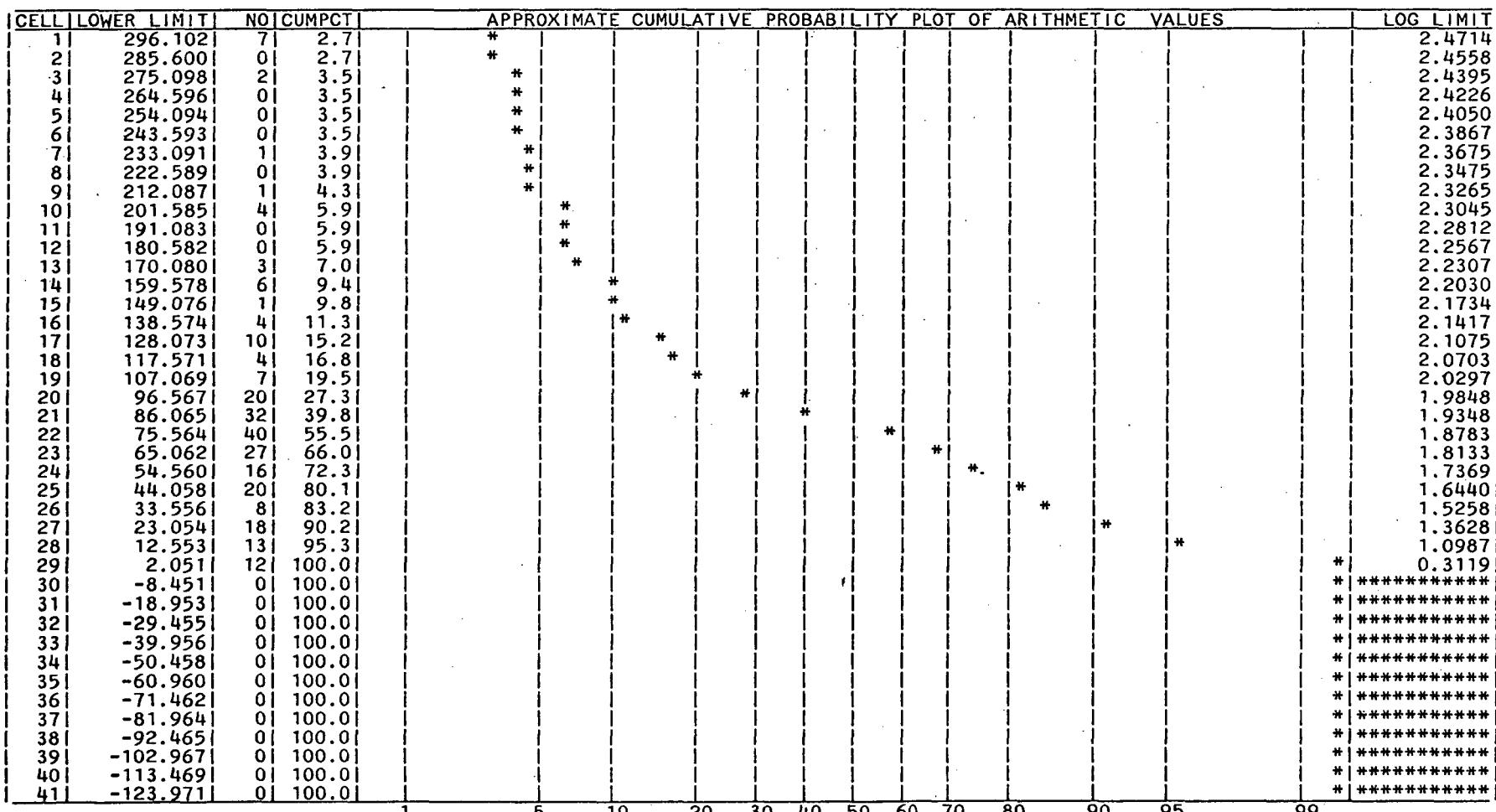
VARIABLE NAME IS: HG

APPROXIMATE CUMULATIVE PROBABILITY PLOT OF LOGARITHMIC VALUES

CELL	LOWER LIMIT	NO	CUMPCT	ARITH. LIMIT
1	2.638	5	2.0	434.2295
2	2.597	0	2.0	395.3723
3	2.556	1	2.3	359.9919
4	2.516	0	2.3	327.7776
5	2.475	1	2.7	298.4463
6	2.434	2	3.5	271.7395
7	2.393	0	3.5	247.4226
8	2.353	1	3.9	225.2819
9	2.312	4	5.5	205.1223
10	2.271	1	5.9	186.7667
11	2.231	3	7.0	170.0538
12	2.190	7	9.8	154.8364
13	2.149	1	10.2	140.9808
14	2.108	13	15.2	128.3650
15	2.068	4	16.8	116.8781
16	2.027	7	19.5	106.4192
17	1.986	20	27.3	96.8962
18	1.946	25	37.1	88.2253
19	1.905	34	50.4	80.3304
20	1.864	14	55.9	73.1420
21	1.823	25	65.6	66.5968
22	1.783	6	68.0	60.6373
23	1.742	11	72.3	55.2111
24	1.701	0	72.3	50.2706
25	1.661	19	79.7	45.7720
26	1.620	3	80.9	41.6761
27	1.579	6	83.2	37.9467
28	1.538	0	83.2	34.5510
29	1.498	11	87.5	31.4591
30	1.457	0	87.5	28.6440
31	1.416	7	90.2	26.0808
32	1.376	0	90.2	23.7469
33	1.335	7	93.0	21.6219
34	1.294	1	93.4	19.6870
35	1.253	3	94.5	17.9253
36	1.213	1	94.9	16.3213
37	1.172	0	94.9	14.8607
38	1.131	1	95.3	13.5309
39	1.091	0	95.3	12.3201
40	1.050	0	95.3	11.2176
41	1.009	0	95.3	10.2138

KWADGEO

VARIABLE NAME IS: HG



STATISTICAL SUMMARY

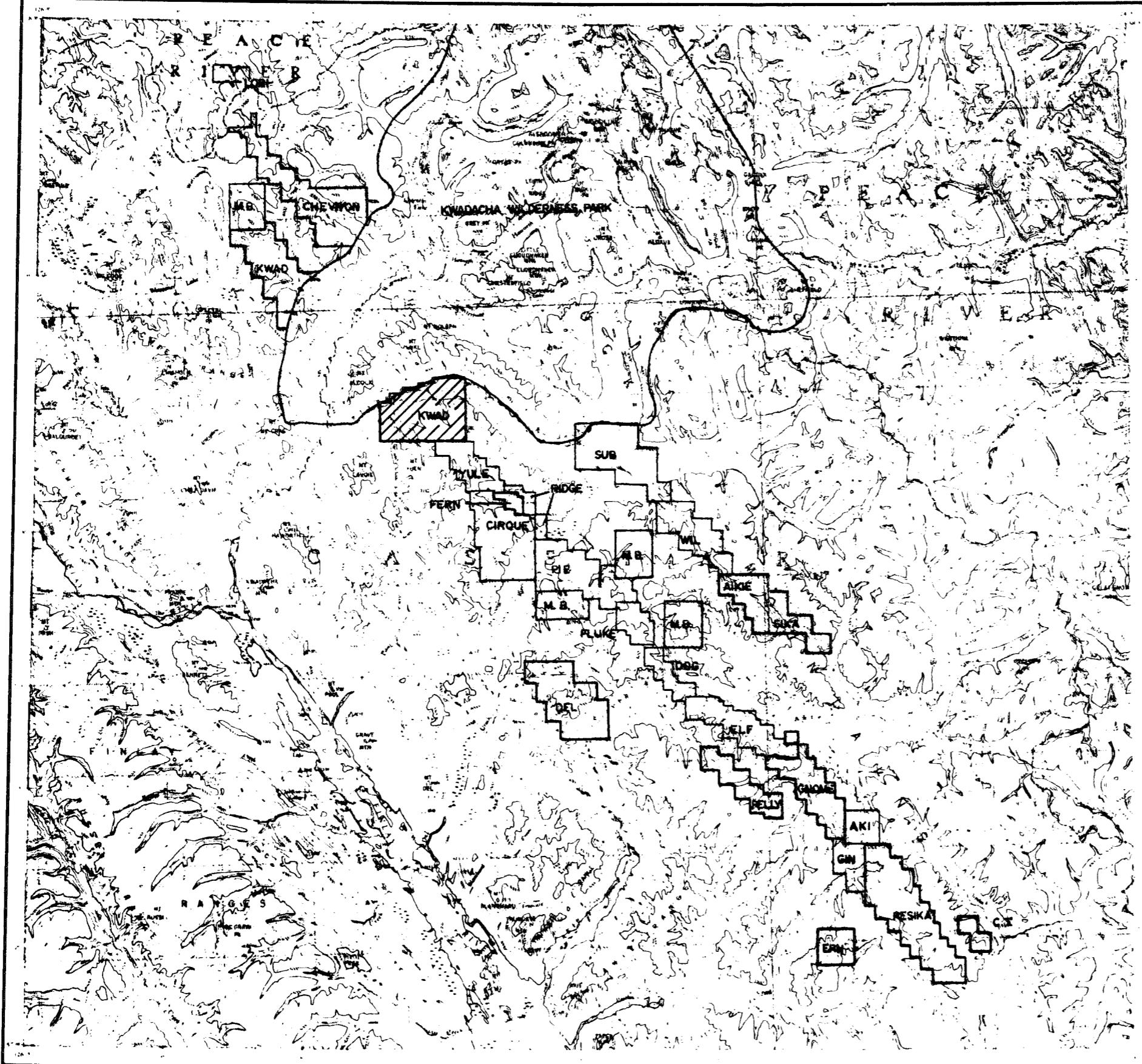
NAME	NO. OF VALUES	ARITHMETIC		LOGARITHMIC	
		MEAN	STD. DEV.	MEAN	STD. DEV.
HG	256	91.317	84.014	1.844	0.326

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,408


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
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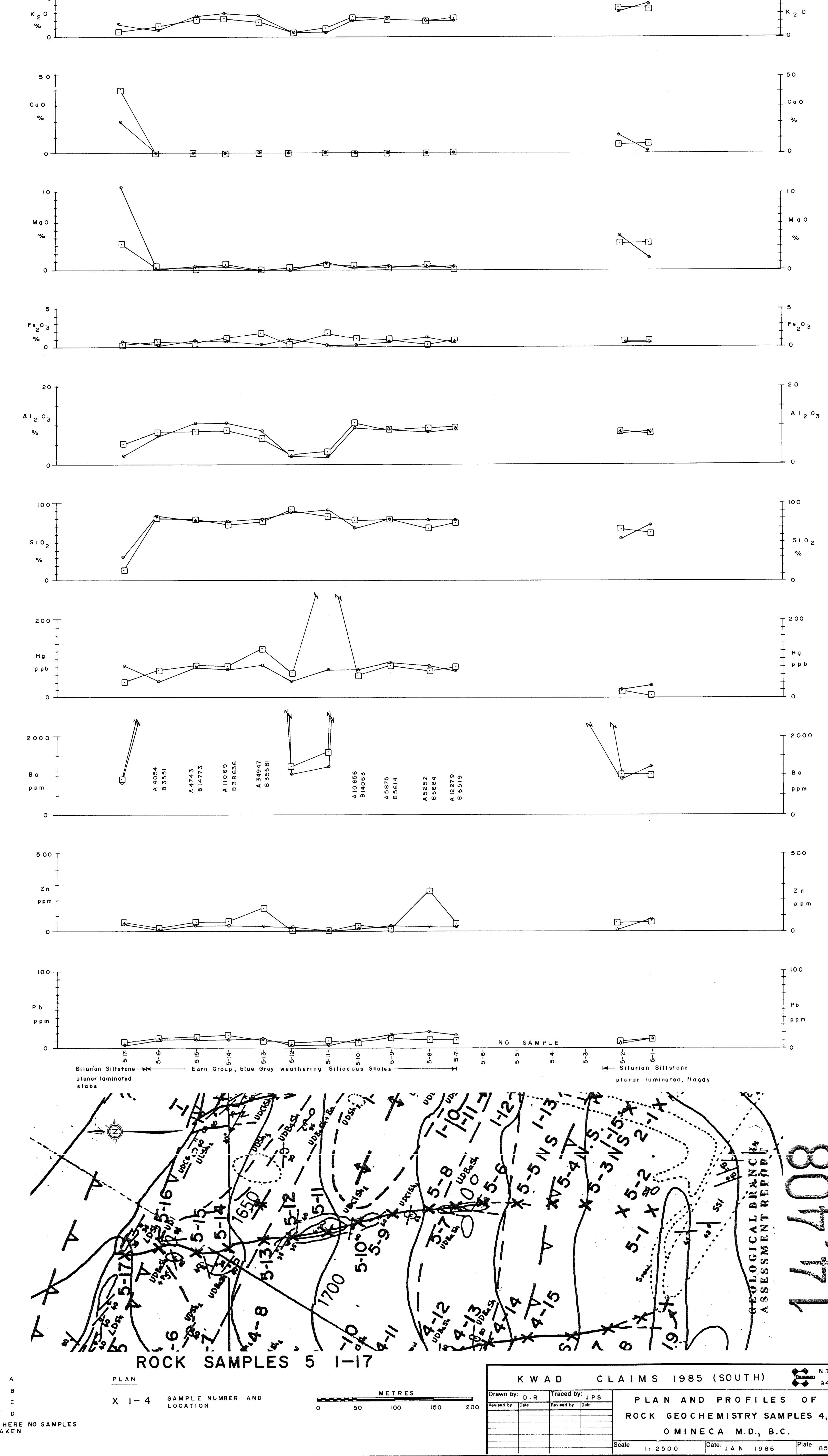
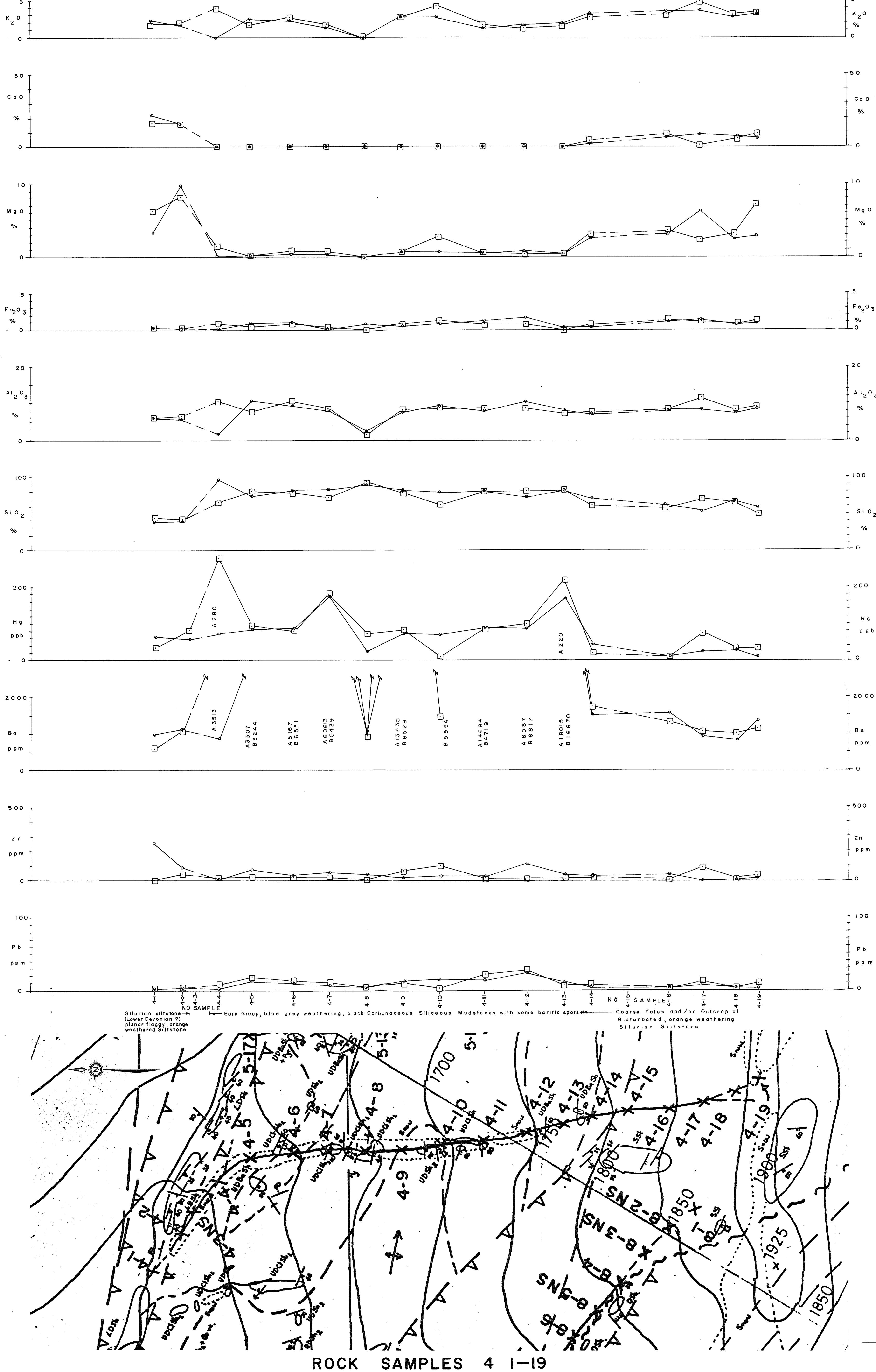


CLAIM LOCATION MAP
KWAD CLAIMS (SOUTH)

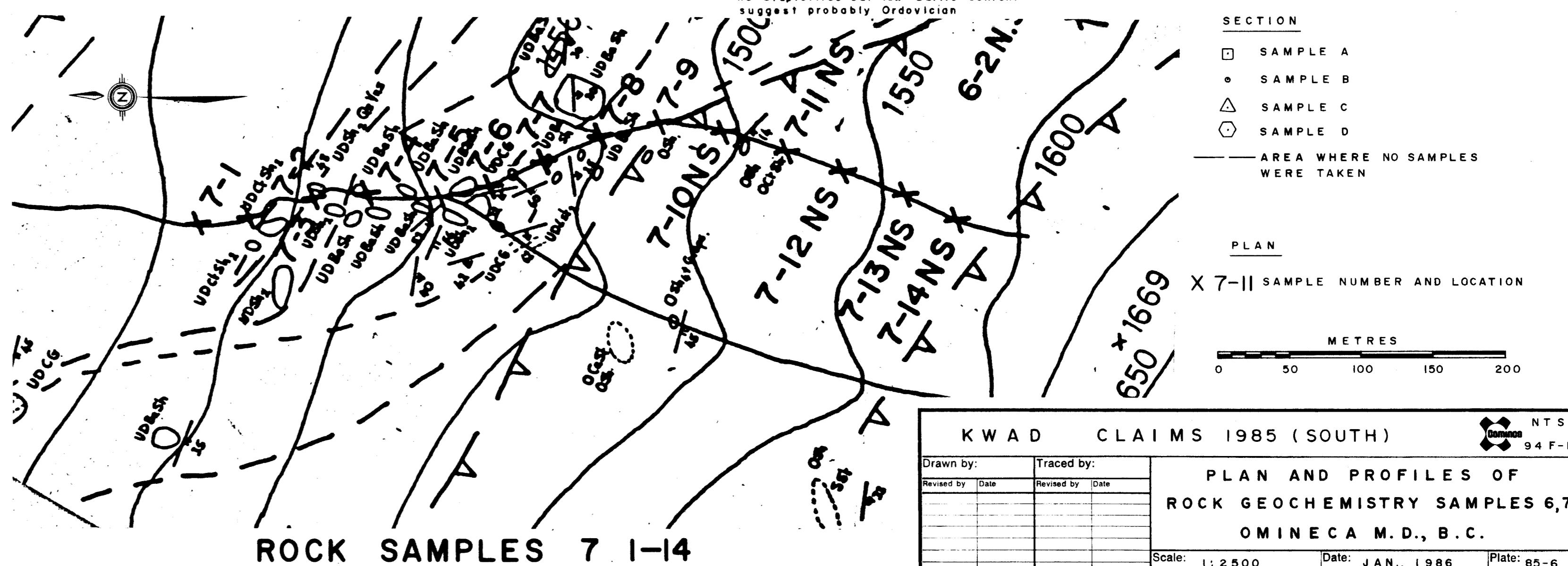
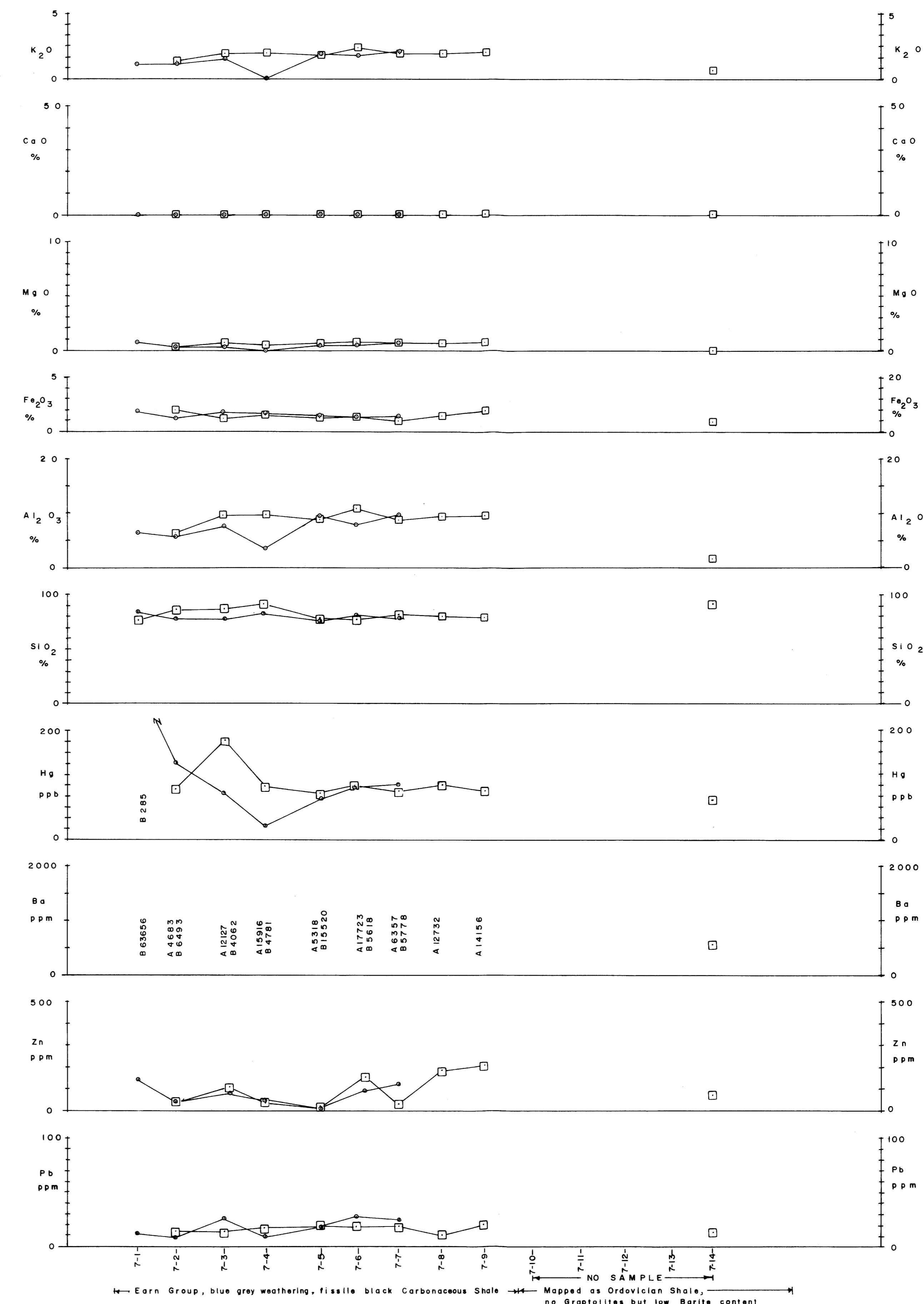
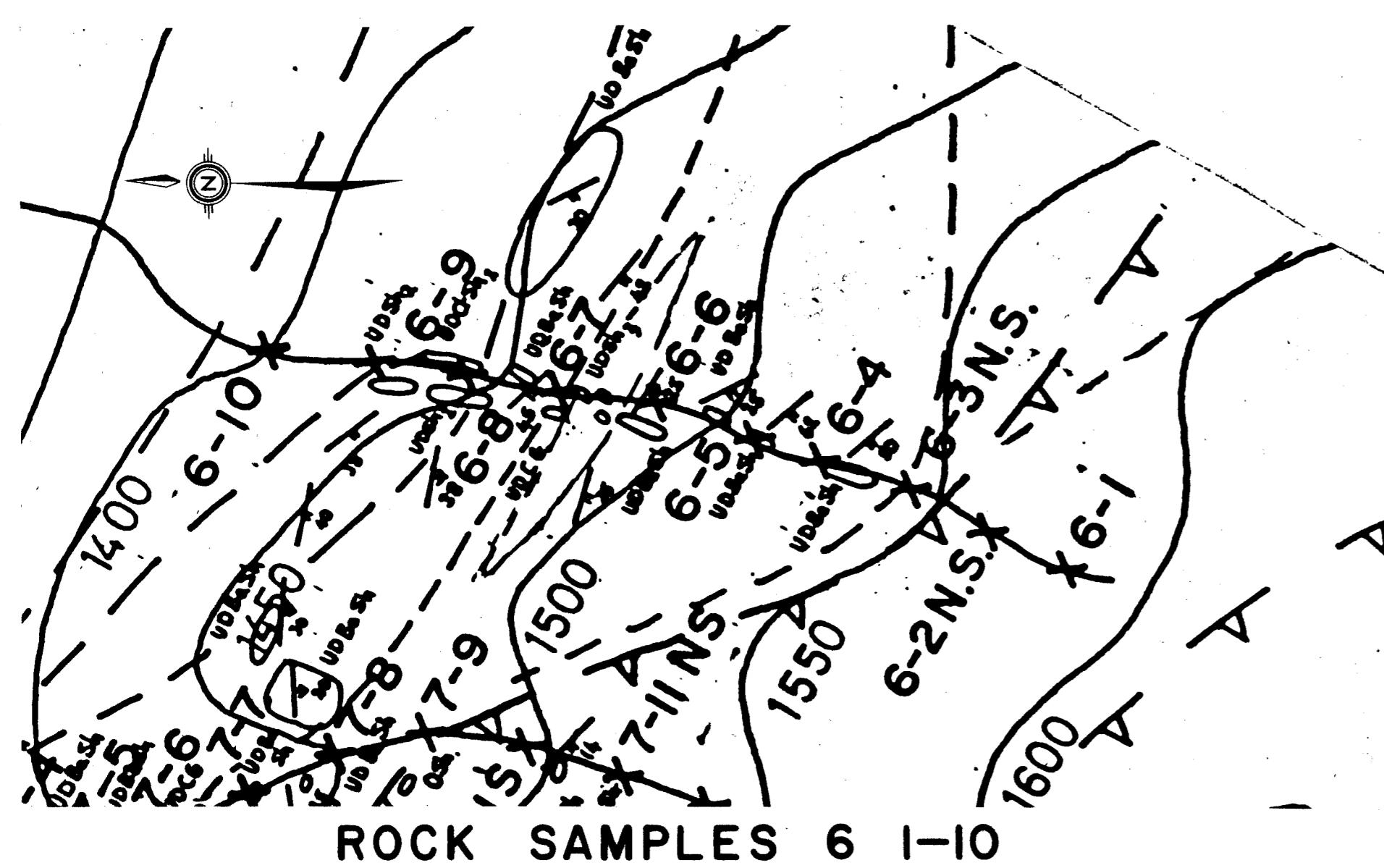
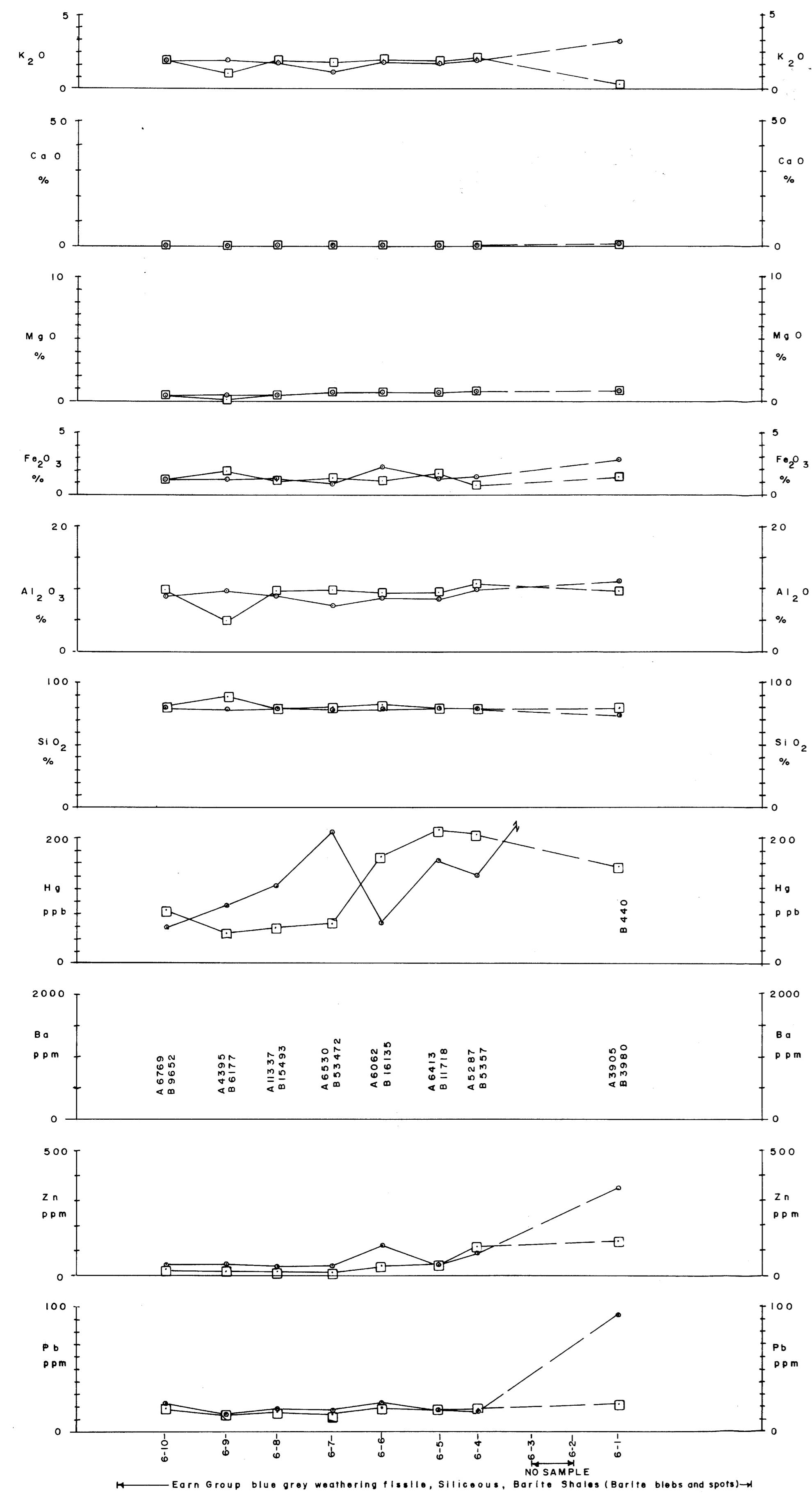
Scale 1:500,000 Date Dec. 85 Plate 85-1





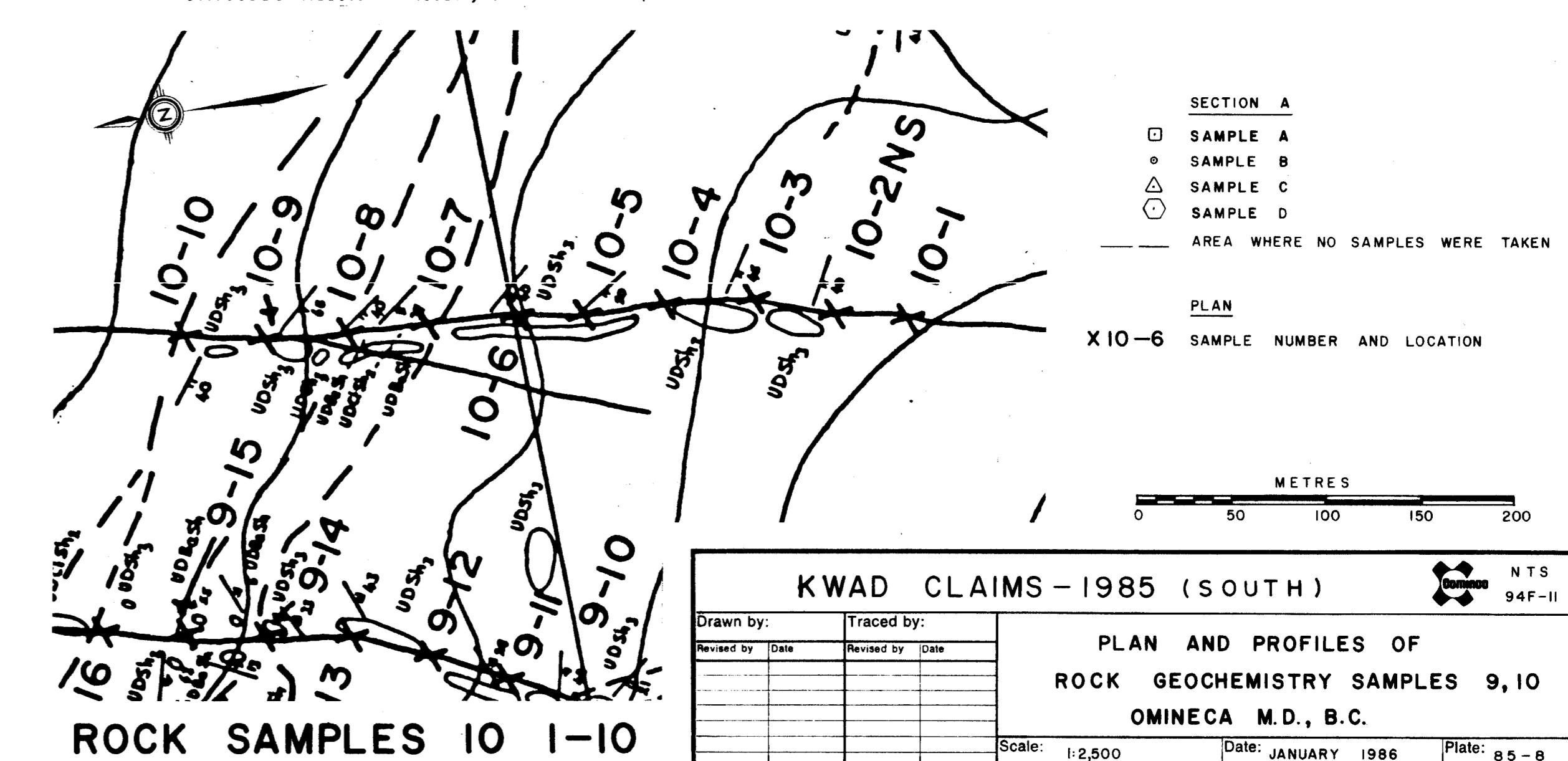
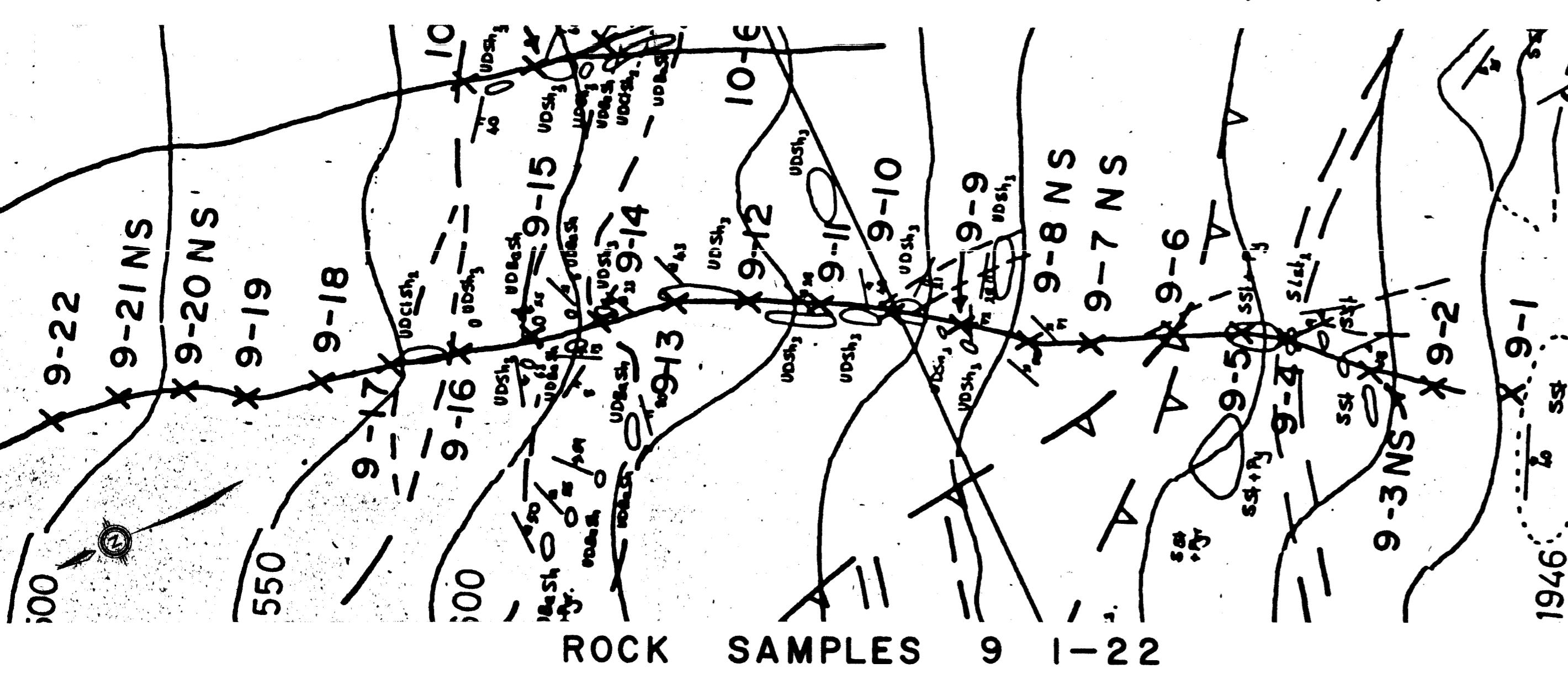
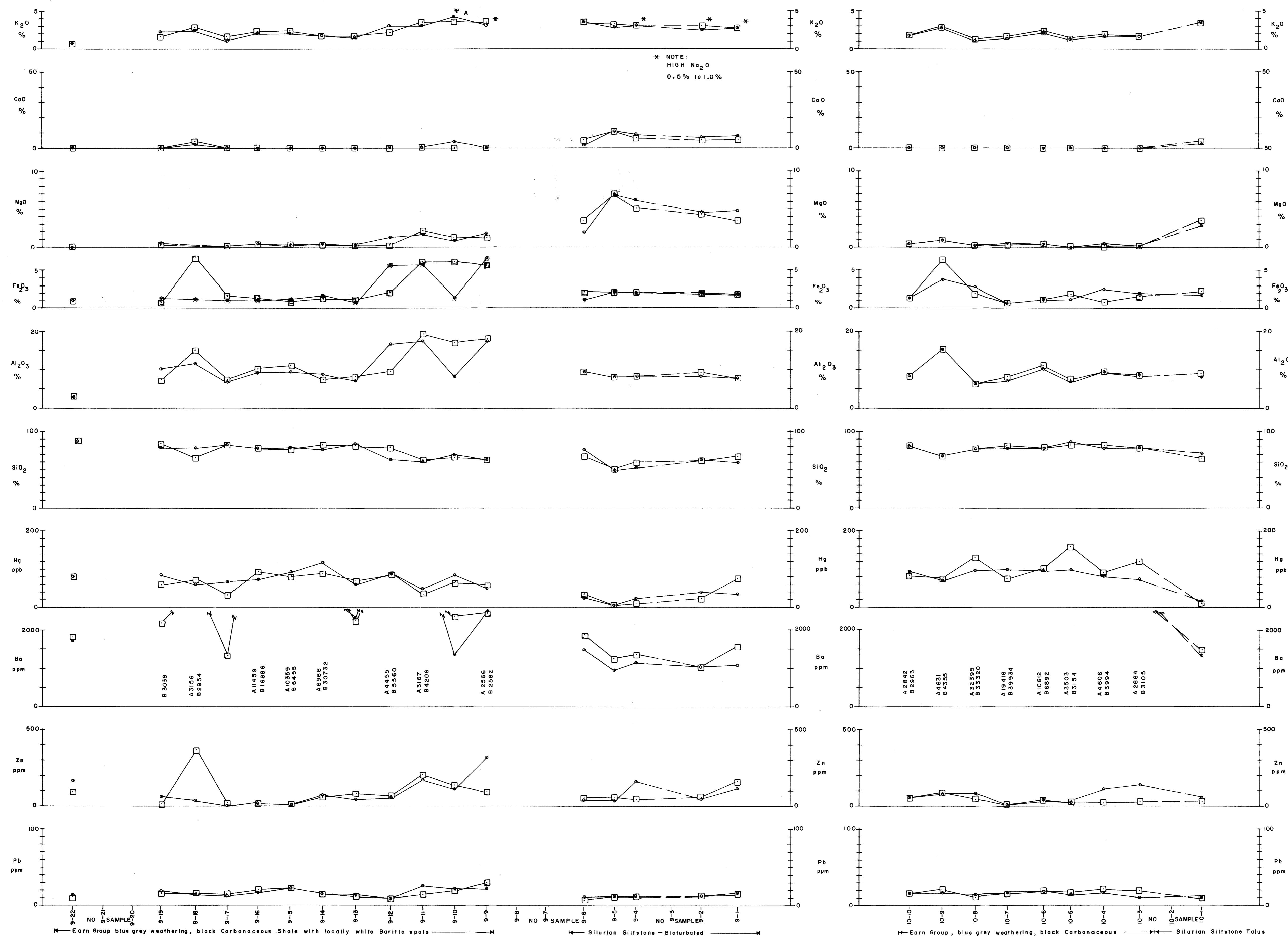


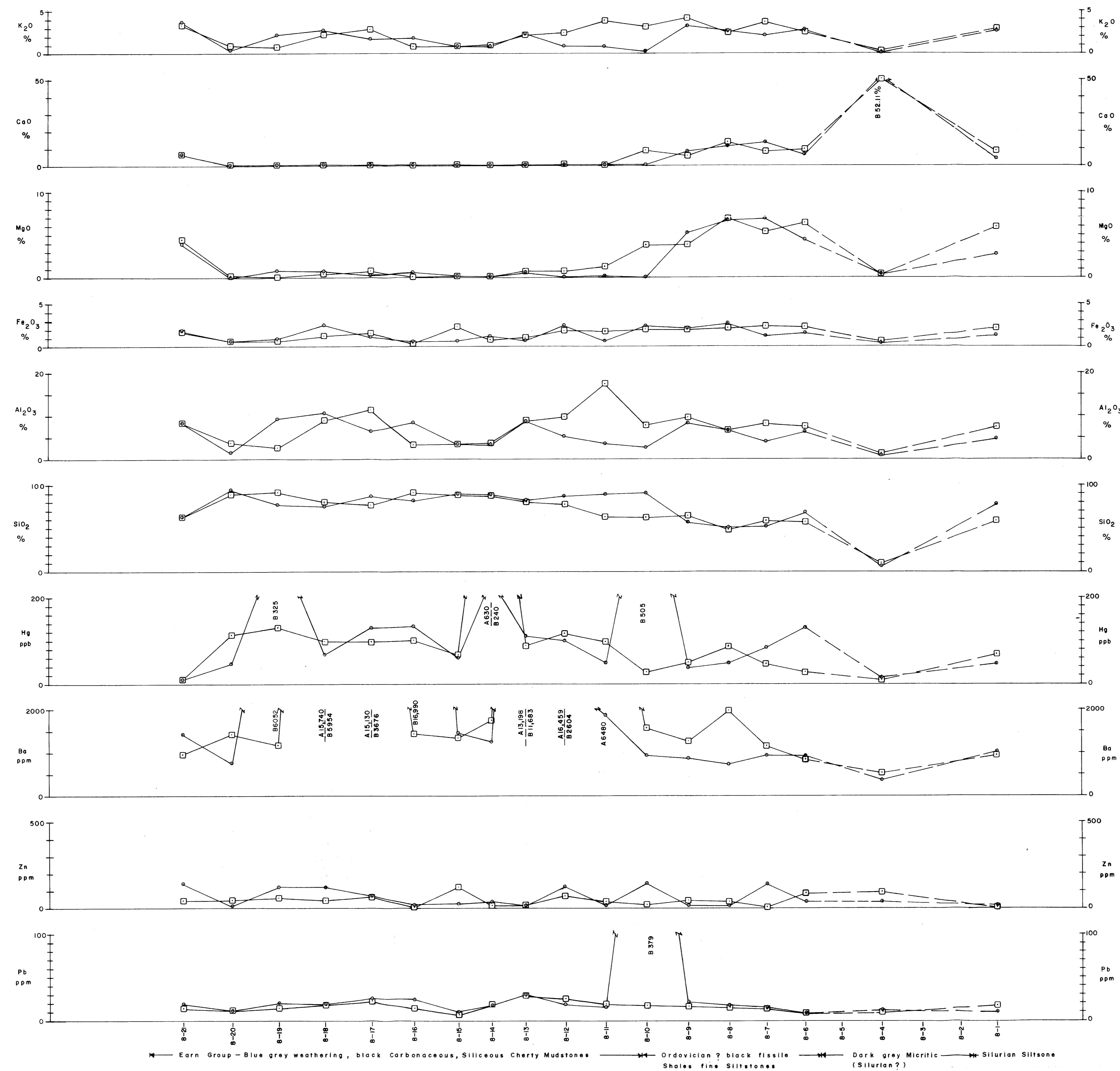
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GEOLOGICAL
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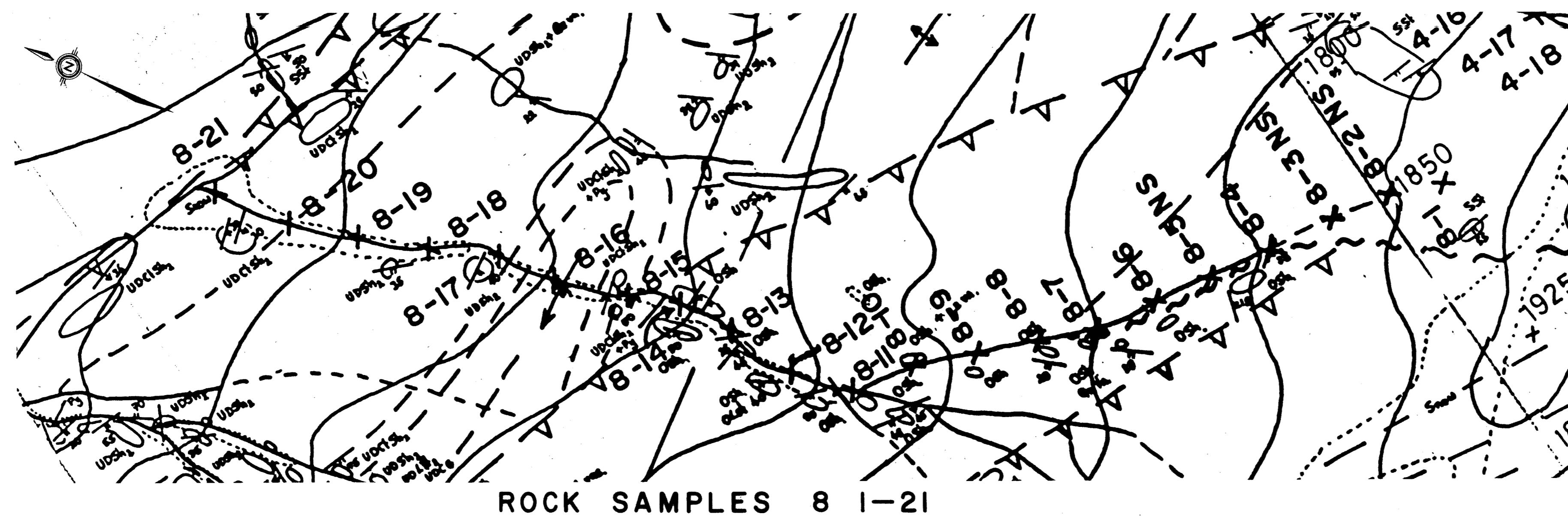
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Legend for geological units:

- Earn Group - Blue grey weathering, black Carbonaceous, Siliceous Cherry Mudstones
- Ordovician? black fissile Shales fine Siltstones
- Dark grey Micritic (Silurian?)
- Silurian Siltstones



SECTION A
 □ SAMPLE A
 ○ SAMPLE B
 ▲ SAMPLE C
 ◻ SAMPLE D
 - AREA WHERE NO SAMPLES WERE TAKEN

PLAN
 X 8-4 SAMPLE NUMBER AND LOCATION

GEOLOGICAL BRANCH ASSESSMENT REPORT

14,408

DRAWN BY:		TRACED BY:	
Revised by	Date	Revised by	Date
KWAD CLAIMS - 1985 (SOUTH)			
PLAN AND PROFILES OF ROCK GEOCHEMISTRY SAMPLE 8 OMINICA M.D., B.C.			
Scale: 1:2,500 Date: JANUARY 1986 Plate: 85-7			