

85-682
14012

COMINCO LTD.

EXPLORATION

WESTERN DISTRICT

NTS: 94F-2E

ASSESSMENT REPORT
GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

ERN GROUP

PESIKA CREEK AREA

OMINÉCA MINING DIVISION

BRITISH COLUMBIA

LATITUDE: 57°06'N

LONGITUDE: 124°33'W

PERIOD OF FIELD WORK

JULY 8 TO JULY 15, 1985

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,012

SEPTEMBER 17, 1985

D. RHODES

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COMINCO LTD.

EXPLORATION
NTS: 94F-2E

WESTERN DISTRICT
18 September 1985

ASSESSMENT REPORT

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE ERN GROUP

LIST OF CLAIMS

<u>Claim No.</u>	<u>Record No.</u>	<u>No. of Units</u>	<u>Recording Date</u>
ERN 1	2917	15	July 15, 1980
ERN 2	2918	20	July 15, 1980
ERN 3	2919	9	July 15, 1980
ERN 4	2920	12	July 15, 1980

I. INTRODUCTION

The ERN Group totaling 56 units was staked in July, 1980 and covers two zones of stratiform barite-pyrite sphalerite mineralization occurring in clastic rocks of the Road River Formation. The ERN Group is underlain by a structurally complex section of Road River formation black, carbonaceous, graptolitic shale, Silurian siltstone, Middle Devonian limestone and Devonian Besa River Formation.

In 1980, Cominco Ltd. performed preliminary silt and soil sampling and 1:10,000 scale geological mapping. During 1981, Cominco Ltd. performed grid soil sampling, stratigraphic rock sampling and 1:5000 scale geological mapping.

In 1985 between July 8th and July 15th a program of further geological mapping and soil and rock geochemistry was undertaken on the claims. This report documents this work which cost \$12,587.27.

II. LOCATION AND ACCESS

The ERN Group is located in the headwaters of Pesika Creek, 30 km southwest of Sikanni Chief Lake on the Fort Ware map sheet NTS: 94F. The center of the claim group is located at latitude 57°06' N and longitude 124°33'W. Field work on the ERN Group was conducted using a Bell 206B Jet Ranger Helicopter based at Johanson Lake and a Hughes 500D helicopter based out of the Sturdee strip to supply a fly camp. The fly camp was mobilized by fixed wing from Mackenzie to the Ingenika strip, and then by helicopter to the property.

III. REGIONAL GEOLOGY

A northwest trending belt of Paleozoic clastic stratigraphy has been outlined by regional mapping programs conducted by the GSC. This clastic belt is located within the Rocky Mountain thrust and fold belt of the Columbian Orogen and is centered approximately 40 km east of the Rocky Mountain Trench. The Paleozoic shales are continuous from the Ospika River, northwesterly to Watson Lake a distance of approximately 400 km. This belt is informally named the Kechika Trough which may represent a southeasterly extension of the Selwyn Basin.

IV. GEOLOGY

Mapping at a scale of 1:5000 has outlined a northwest trending package of Cambrian to Devonian stratigraphy containing a structurally repeated iron-sulphide-barite horizon of Upper Ordovician to Lower Silurian age. These rocks are briefly described in ascending stratigraphic order below and in Table 1.

Kechika Formation (U. Cam. - L. Ord.)

Lower Ordovician Siltstone and Limestone (Unit EOk)

The Kechika Formation occurs in the western portion of the property and is the stratigraphic base of the Paleozoic sediments in the area and unconformably underlies the Ordovician-Silurian Road River Formation. The unit consists of orange to grey weathering variably calcareous thickly bedded siltstones and nodular limestone.

Road River Formation (L. Ord. - U. Silur.)

Middle Ordovician Limestone/Limy Mudstone (Unit Ols/Olms)

The Ordovician limestone and limy mudstone is the lowest portion of the Road River Formation mapped on the property. Unit Ols is a medium bedded grey limestone containing rare one-hole crinoids which grades into a deeper water equivalent, Unit Olms, consisting of black thinly bedded carbonaceous limy mudstone and minor black platy limestone.

Upper Ordovician Shale (Unit Osh)

The Ordovician shale unit outcrops at several locations on the property. The shale conformably overlies the Ols/Olms unit and forms the stratigraphic footwall to the Lower Silurian mineralized horizon. The unit is recessive black to grey weathering, black carbonaceous graptolitic shale and mudstone.

Lower Silurian "Active" (Unit LSa)

The Lower Silurian "Active" is exposed in two locations on the property on the east limb of two adjacent synclines. The unit is very complex due to its turbiditic nature, with specific lithologies changing facies and thickness along strike and down dip. The unit consists generally of rusty weathering pyrite-dolomite breccia with minor sphalerite, pyritic quartzite and dolostone, black shale and laminated black chert and barite.

Lower Silurian Shale (Unit LSsh)

The Lower Silurian shale unit forms the conformable stratigraphic hanging wall to the mineralized unit. The rock unit consists of a black carbonaceous mudstone and shale with minor grey quartzite near the base.

Silurian Siltstone (Unit Ssl)

The siltstone unit outcrops at several locations on the property where it overlies the Lower Silurian shale or Upper Ordovician shale. The unit is a resistant buff-orange weathering assemblage of thin-to-thickly bedded quartz-siltstone, bioturbated dolomitic siltstone, dolomitic mudstone and minor silty shale.

TABLE 1

TABLE OF GEOLOGICAL FORMATIONSBESA RIVER
FORMATIONM. - U. DEVONIAN

Dss Black to rusty weathering, black fissile laminated shale, minor siltstone.

DUNEDIN
FORMATIONM. DEVONIAN

Dls Light grey weathering, grey thickly bedded limestone reef and fore reef limestone turbidites.

U. SILURIAN

USsh Brown to buff weathering, dark brown to black thin bedded laminated silty shale, minor siltstone.

USls Buff to brown weathering, light grey, thick bedded dolomite and dolomitic limestone.

USms Buff weathering, light grey thinly bedded silty mudstone with thin black siliceous laminations (pinstripes).

ROAD RIVER
FORMATIONM. SILURIAN

Ssl Brown to orange weathering, light grey thick to thinly bedded quartz-siltstone, dolomitic siltstone and bioturbated dolomitic mudstone.

L. SILURIAN

LSsh Black to grey weathering, black carbonaceous slate and mudstone.

LSa Rusty weathering dolostone, dolostone-pyrite breccia, pyritic-quartzite, minor black mudstone and minor thin bedded barite (minor sphalerite).

U. ORDOVICIAN

Osh Black to grey weathering black, carbonaceous, graptolitic shale and mudstone.

M. ORDOVICIAN

OlS/Olms Grey weathering, grey, thickly bedded limestone. Grades into a thin bedded black carbonaceous limestone and limy mudstone.

U. CAMBRIAN - L. ORDOVICIAN

EOK Buff to orange weathering, grey, medium bedded calcareous, siltstone and nodular limestone.

KECHIKA
FORMATION

Upper Silurian Mudstone (Unit USms)

The Upper Silurian mudstone is exposed on the western margin of the claim group where it conformably overlies the Silurian siltstone. This relatively thin unit consists of blacky to platy buff weathering silty mudstone with black siliceous pinstripes.

Upper Silurian Limestone (Unit USls)

The Upper Silurian limestone unit has a small exposure in the western area of the property and appears to be a small patch reef-like carbonate build-up. The unit comprises thickly bedded light grey massive dolomite and dolomitic limestone.

Upper Silurian Shale (Unit USsh)

The Upper Silurian shale unit is exposed in the western area of the property where it overlies the Silurian limestone and unconformably underlies the Middle Devonian carbonate. The unit consists of brown to buff weathering thinly bedded well laminated silty shale and minor siltstone.

Dunedin Formation (M. Dev.)

Devonian Limestone (Unit Dls)

The Devonian limestone unconformably overlies the Upper Silurian shale and underlies the Devonian shale, unit Dss. These carbonates are thickly bedded patch reefs, limestone turbidite debris flows, containing abundant fossil hash. Locally, the limestone turbidite interdigitates with the Devonian shale, unit Dss.

Besa River Formation (M. Dev.)

Devonian Shale (Unit Dss)

Unit Dss forms the base of the Devonian Clastic in the area informally named the Besa River Formation. These are the youngest rocks mapped on the property and are preserved in the cores of synclines and on the eastern margin of the property. The unit consists of black to grey weathering black fissile laminated shales, silty shales and minor siltstone.

Structure

The sedimentary succession has been subjected to northeast-to-southwest compression resulting in anticlinal and synclinal development and associated overthrusts and high angle faulting.

1985 Mapping

The 1985 mapping concentrated on examining the valley north of the cirque containing the ERN West zone and briefly re-examining the ground in and about the ERN East and West zones. Plate 4 documents this mapping. The mapping showed that Devonian strata occur to the north of and in fault contact with the ERN West zone and its hosting lower Silurian stratigraphy. The structure in and around the ERN West zone has been interpreted as being somewhat more complexly folded than shown by the 1981 map. The mapping and rock geochemistry

(see below) also suggested that the mineralized horizon (unit LSA) exposed in rubble in the East zone was repeated on the ridge to the south of the East zone by a synclinal fold closure.

V. MINERALIZATION

At present, the mineralization consisting of pyrite-barite-sphalerite with minor late galena is confined to map unit LSA of Lower Silurian age (see Table 2). In 1980 trenching of this unit in the West zone exposed a stratigraphic thickness of ten to twelve m. The best grade material, a dolomite breccia containing a matrix of pyrite and dolomite-sand with fine sphalerite clasts, assayed 8% Zn across .35 m.

The 1985 work in addition to locating mineralized unit LSA float south of the East zone also mapped widespread mineralized float in the valley floor below the West zone as well as numerous mounds of zinc enriched caliche in the valley floor. Two samples of the caliche DR-85-2 and DR-85-3 returned values respectively of 0.3% and 1.8% Zn. Two samples of mineralized float DR-85-4 and DR-85-5 returned values of 0.1% Pb, .01% Zn, 7.5% Ba and 0.26% Pb, 4.3% Zn and 8.8% Ba respectively. This mineralized float appears to have been transported by gravity and slides to its present position downslope from the outcropping West zone.

VI. GEOCHEMISTRY

A. Soil Geochemistry

Two hundred soil samples were collected on the ERN property. The soil grid consisted of 100 metre spaced lines with samples at 25 m intervals along the line. The lines were run with hip chain and compass off of a flagged and chained, 1 km long base line. The grid covered the ridge and slope flanking the 1981 soil grid in the valley extending downslope from the West zone. This area was sampled to investigate the upslope extent of anomalous values that were encountered by the 1981 survey.

Soil samples were collected from the "B" horizon, placed in kraft sample bags and shipped to the Cominco Laboratory at 1486 E. Pender Street, Vancouver. Soil samples are dried, sieved to -80 mesh, digested in aqua regia and analysed by atomic absorption for lead, zinc. Samples analysed for barium were quantitatively determined by x-ray fluorescence. All sample pulps from the ERN Group are stored at the Cominco Laboratory in Vancouver.

Results of the sampling may be noted on the accompanying 1:5000 scale maps, Plates 1, 2 and 3 for lead, zinc and barium respectively.

Appendix D presents the raw data and statistics on the data. The results have been contoured at appropriate threshold values for lead, zinc and barium. Several anomalous areas are indicated that for the most part appear to be continuations of anomalies detected in 1981. Most of the anomalies are coincident with the known or inferred position of the mineralized Road River pyrite/barite dolostone horizon. The anomalies in the cirque bottom below the West zone may be attributable to mineralized float transported downslope and in part to zinc rich caliche. Generally high barium values over the areas of mapped Devonian clastics and limestones suggest elevated barium levels in the Devonian strata that are in part confirmed by rock geochemical data.

B. Rock Geochemistry

One hundred and eighteen rocks were sampled along ridge lines and in one traverse across the face of the cirque enclosing the West zone. All of the samples were analysed for lead, zinc, barium and mercury while forty samples from the traverse across the West zone cirque also analyzed for 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 E presents the field data and statistics on the rock geochemistry. Plates 5 and 6 present the data in map and graphical form. Anomalous Pb, Zn, Ba, Hg values coincide closely with the known and/or inferred position of unit LSA. To a lesser extent anomalous results are also found with the Ordovician shales. In general even anomalous lead, zinc, mercury values are relatively low. The most anomalous rock geochemical sample occurs on the ridge south of the East zone supporting geological observations on float that suggest unit LSA trends through this area.

VII. CONCLUSIONS

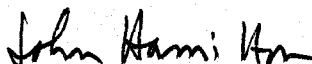
Mapping supported by soil and rock geochemistry has further defined the outcrop/subcrop expression of a mineralized Lower Silurian unit within the Road River Group. The mapping has also suggested that faulting cuts off much of the northward strike potential of this unit. The remaining potential of the mineralized horizon on the property is therefore at depth down dip from the mineralized horizon or perhaps in areas such as the ridge south of the East zone or the valley below the West zone where the mineralized horizon is not well exposed. Substantial increases in the known thicknesses and grade of the mineralized horizon will be necessary to make a viable base metal deposit.

Reported by:



D. Rhodes
Senior Geologist

Endorsed by:



J.M. Hamilton
Assistant Manager

Approved for
Release by:


G. HADDEN, Manager
Expl., Western District

DR/cgs

Distribution

Western District
Mining Recorder

VIII. REFERENCES

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APPENDIX A

STATEMENT OF EXPENDITURES

ERN CLAIM GROUP

JULY 8 TO JULY 15, 1985

Salaries: D. Rhodes	7 days @ \$281.84	\$1,972.88	
C.N. Repp	7 days @ 87.12	609.84	
T.C. McDonald	7 days @ 97.68	<u>683.76</u>	
			\$ 3,266.48
Field Equipment and Supplies			1,737.96
Transportation - Fixed Wing			100.00
- Helicopter and Fuel			<u>1,753.23</u>
Geochemistry			
200 soil samples Preparation and analysis for Pb,Zn,Ba @ \$7.67 each		1,530.00	
119 rock samples Preparation and analysis for Pb,Zn,Hg,Ba @ \$14.40 each		1,699.60	
40 rock samples analysis for major elements @ \$25.00 each		<u>1,000.00</u>	11,087.27
Report Preparation and Draughting			<u>1,500.00</u>
		TOTAL	<u><u>\$12,587.27</u></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 geological program carried out on the ERN Claims;
3. THAT said expenditures were incurred between the eighth day of July and the fifteenth day of July, 1985 for the purpose of mineral exploration on the above noted claims.

Signed:



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
Senior Geologist

APPENDIX D

SOIL GEOCHEMICAL DATA AND STATISTICS

EXP LAB	FIELD									DEPTH	WIDTH	FLOW		Pb	Zn	Ba					
NUMBER	NO	MAP	ZONE	EAST	NORTH	#	MAT'L	ORIG	SITE	COLOR	SIZE	ORG	NET	CM	SLOPE	HORIZ	PPT	PH	PPM	PPM	PPM
S8504715	3041			-550	+900	2	SOIL	RESID		MED-GREY	GRAVLY-SAND	MED	NET	10	MED	B	.	.	17	144	2741
S8504716	3042			-575	+900	2	SOIL	RESID		MED-GREY	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	23	84	3477
S8504717	3043			-600	+900	2	SOIL	RESID		MED-GREY	GRAVLY-SAND	MED	M'ST	15	MED	B	.	.	19	109	3216
S8504718	3044			-625	+900	2	SOIL	RESID		LT-BROWN	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	58	98	3347
S8504719	3045			-650	+900	2	SOIL	RESID		DK-GREY	GRAVLY-SILT	MED	M'ST	20	STEEP	B	.	.	2490	484	E30819
S8504720	3046			-675	+900	2	SOIL	RESID		DK-GREY	GRAVLY-SILT	MED	M'ST	30	STEEP	B	.	.	570	246	7336
S8504721	3047			+0	+800	3	SOIL	TALUS		BRN-RED	GRAVLY-SILT	LOW	M'ST	20	LOW	B	.	.	19	121	4397
S8504722	3048			-25	+800	3	SOIL	TALUS		BRN-RED	GRAVLY-SILT	MED	M'ST	25	MED	B	.	.	16	55	2785
S8504723	3049			-50	+800	3	SOIL	TALUS		MED-BROWN	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	19	68	2979
S8504724	3050			-75	+800	3	SOIL	TALUS		MED-BROWN	GRAVLY-SILT	MED	M'ST	30	MED	B	.	.	20	87	3192
S8504725	3051			-100	+800	3	SOIL	TALUS		MED-BROWN	GRAVLY-SILT	MED	M'ST	15	STEEP	B	.	.	25	104	3516
S8504726	3052			-125	+800	3	SOIL	TALUS		BRN-RED	GRAVLY-SILT	MED	M'ST	40	STEEP	B	.	.	20	72	3619
S8504727	3053			-150	+800	3	SOIL	TALUS		BRN-RED	GRAVLY-SILT	MED	M'ST	15	MED	B	.	.	18	40	2535
S8504728	3054			-175	+800	3	SOIL	TALUS		RED-BROWN	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	22	41	2484
S8504729	3055			-200	+800	3	SOIL	TALUS		BRN-RED	GRAVLY-SILT	MED	M'ST	20	STEEP	B	.	.	16	32	1766
S8504730	3056			-225	+800	3	SOIL	TALUS		DK-BROWN	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	18	24	1833
S8504731	3057			-250	+800	3	SOIL	TALUS		BRN-RED	GRAVLY-SILT	MED	M'ST	20	STEEP	B	.	.	14	39	2224
S8504732	3058			-275	+800	3	SOIL	TALUS		DK-BROWN	GRAVLY-SILT	MED	M'ST	25	STEEP	B	.	.	12	39	2579
S8504733	3059			-300	+800	3	SOIL	TALUS		DK-BROWN	GRAVLY-SILT	MED	M'ST	30	MED	B	.	.	11	38	2720
S8504734	3060			-325	+800	3	SOIL	TALUS		MED-BROWN	GRAVLY-SILT	MED	M'ST	25	MED	B	.	.	12	41	2640
S8504735	3061			-350	+800	3	SOIL	TALUS		BRN-GREY	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	13	37	2616
S8504736	3062			-375	+800	3	SOIL	TALUS		DK-BROWN	GRAVLY-SAND	MED	M'ST	30	MED	B	.	.	15	106	2423
S8504737	3063			-400	+800	3	SOIL	TALUS		MED-GREY	GRAVLY-SILT	LOW	M'ST	45	LOW	B	.	.	20	2090	2549
S8504738	3064			-425	+800	3	SOIL	TALUS		DK-GREY	GRAVLY-SILT	MED	M'ST	25	LOW	B	.	.	15	1490	1334
S8504739	3065			-450	+800	3	SOIL	TALUS		MED-GREY	GRAVLY-SILT	LOW	NET	30	LOW	B	.	.	30	7100	2415
S8504740	3066			+0	+700	2	SOIL	RESID		LT-BROWN	GRAVLY-SILT	LOW	M'ST	40	MED	B	.	.	15	140	3309
S8504741	3067			-25	+700	2	SOIL	RESID		LT-BROWN	GRAVLY-SILT	MED	M'ST	10	LOW	B	.	.	15	40	2901
S8504742	3068			-50	+700	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	HIGH	M'ST	20	LOW	B	.	.	27	76	3135
S8504743	3069			-75	+700	2	SOIL	RESID		DK-GREY	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	8	42	2804
S8504744	3070			-100	+700	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	MED	M'ST	25	MED	B	.	.	15	45	2330
S8504745	3071			-125	+700	2	SOIL	RESID		MED-RED	GRAVLY-SAND	MED	M'ST	10	MED	B	.	.	18	71	2913
S8504746	3072			-150	+700	2	SOIL	RESID		DK-GREY	GRAVLY-SILT	LOW	M'ST	40	MED	B	.	.	14	144	2749
S8504747	3073			-175	+700	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	LOW	NET	30	MED	B	.	.	14	191	2361

EXP LAB		FIELD												DEPTH WIDTH FLOW			Pb	Zn	Ba
NUMBER	NO	MAP ZONE	EAST	NORTH	#	MAT'L ORIG	SITE	COLOR	SIZE	ORG	MET	CM	SLOPE	HORIZ	PPT	PH	PPM	PPM	PPM
S8504748	3074		-200	+700	2	SOIL RESID		DK -GREY	GRAVLY-SILT	MED	M'ST	45	MED	B	.	.	12	188	2461
S8504749	3075		-225	+700	2	SOIL RESID		LT -BROWN	GRAVLY-SILT	MED	M'ST	45	STEEP	B	.	.	18	169	2376
S8504750	3076		-250	+700	2	SOIL RESID		MED-BROWN	GRAVLY-SILT	MED	M'ST	30	LOW	B	.	.	17	122	2382
S8504751	3077		-275	+700	2	SOIL RESID		MED-BROWN	GRAVLY-SILT	MED	M'ST	20	STEEP	B	.	.	20	214	2199
S8504752	3078		-300	+700	2	SOIL RESID		DK -GREY	GRAVLY-SAND	LOW	M'ST	35	STEEP	B	.	.	23	1160	2050
S8504753	3079		-325	+700	2	SOIL RESID		DK -GREY	GRAVLY-SILT	MED	M'ST	30	MED	B	.	.	20	419	2359
S8504754	3080		-350	+700	2	SOIL RESID		DK -GREY	GRAVLY-SILT	MED	M'ST	25	MED	B	.	.	12	277	2109
S8504755	3081		-375	+700	2	SOIL RESID		LT -BROWN	SANDY -SILT	LOW	NET	40	LOW	B	.	.	4	1290	54
S8504756	3082		-400	+700	2	SOIL RESID		DK -BROWN	GRAVLY-SILT	MED	M'ST	25	MED	B	.	.	31	243	3503
S8504757	3083		-425	+700	2	SOIL RESID		MED-GREY	GRAVEL	LOW	M'ST	25	MED	B	.	.	25	660	6116
S8504758	3084		-450	+700	2	SOIL RESID		DK -BROWN	GRAVLY-SILT	LOW	M'ST	25	MED	B	.	.	25	276	5277
S8504759	3085		+0	+600	3	SOIL TALUS		BRN-GREY	GRAVLY-SILT	MED	M'ST	30	STEEP	B	.	.	18	238	4923
S8504760	3086		-25	+600	3	SOIL TALUS		DK -BROWN	GRAVLY-SILT	MED	M'ST	25	MED	B	.	.	16	102	3138
S8504761	3087		-50	+600	3	SOIL RESID		RED-BROWN	GRAVLY-SILT	MED	M'ST	20	FLAT	B	.	.	16	80	2781
S8504762	3088		-75	+600	3	SOIL TALUS		BRN-RED	GRAVLY-SILT	MED	M'ST	15	MED	B	.	.	24	60	2167
S8504763	3089		-100	+600	3	SOIL TALUS		BRN-GREY	GRAVLY-SILT	LOW	M'ST	25	STEEP	B	.	.	15	67	2102
S8504764	3090		-125	+600	3	SOIL TALUS		BRN-GREY	GRAVLY-SILT	MED	M'ST	20	STEEP	B	.	.	30	61	2483
S8504765	3091		-150	+600	3	SOIL RESID		MED-BROWN	SILTY -CLAY	MED	M'ST	25	STEEP	B	.	.	24	54	2329
S8504766	3092		-175	+600	3	SOIL TALUS		BRN-GREY	SILTY -CLAY	MED	M'ST	25	STEEP	B	.	.	25	156	1459
S8504767	3093		-200	+600	3	SOIL TALUS		DK -GREY	SILTY -CLAY	MED	M'ST	20	STEEP	B	.	.	17	346	2043
S8504768	3094		-225	+600	3	SOIL RESID		BRN-GREY	SILTY -CLAY	MED	M'ST	20	LOW	B	.	.	20	253	3162
S8504769	3095		-250	+600	3	SOIL TALUS		LT -GREY	GRAVLY-SILT	LOW	M'ST	20	STEEP	B	.	.	25	820	5255
S8504770	3096		-275	+600	3	SOIL TALUS		MED-BROWN	GRAVLY-SILT	LOW	M'ST	30	STEEP	B	.	.	24	95	4077
S8504771	3097		-300	+600	3	SOIL TALUS		DK -BROWN	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	111	270	E14342
S8504772	3098		-325	+600	3	SOIL TALUS		BRN-RED	GRAVLY-SILT	MED	M'ST	25	MED	B	.	.	40	94	2757
S8504773	3099		-350	+600	3	SOIL TALUS		DK -BROWN	GRAVLY-SILT	MED	M'ST	20	STEEP	B	.	.	18	142	3387
S8504774	3100		-375	+600	3	SOIL TALUS		DK -BROWN	GRAVLY-SILT	MED	M'ST	20	MED	B	.	.	38	233	3268
S8504775	3101		-400	+600	3	SOIL RESID		DK -BLACK	SILT	MED	M'ST	30	LOW	B	.	.	65	461	4143
S8504776	3102		+0	+500	2	SOIL RESID		DK -BROWN	GRAVLY-SAND	MED	M'ST	20	LOW	B	.	.	30	78	4243
S8504777	3103		-25	+500	2	SOIL TALUS		LT -GREY	GRAVEL	LOW	M'ST	20	MED	B	.	.	28	89	4757
S8504778	3104		-50	+500	2	SOIL RESID		MED-RED	GRAVLY-SILT	MED	M'ST	40	FLAT	B	.	.	20	46	3801
S8504779	3105		-75	+500	2	SOIL TALUS		MED-BROWN	GRAVEL	LOW	M'ST	10	MED	B	.	.	34	111	4518
S8504780	3106		-100	+500	2	SOIL RESID		MED-GREY	GRAVLY-SILT	MED	M'ST	35	MED	B	.	.	126	1360	8978
S8504781	3107		-125	+500	2	SOIL RESID		DK -BROWN	SANDY -SILT	MED	M'ST	30	MED	B	.	.	67	550	E16267
S8504782	3108		-150	+500	2	SOIL RESID		MED-BROWN	SAND	LOW	M'ST	25	MED	B	.	.	267	389	E23881
S8504783	3109		-175	+500	2	SOIL RESID		DK -BROWN	GRAVLY-SILT	MED	M'ST	20	STEEP	B	.	.	18	46	2809

EXP LAB NUMBER	FIELD NO	MAP ZONE	EAST	NORTH	#	MAT'L	ORIG SITE	COLOUR	SIZE	ORIG	DEPTH WIDTH FLOW			Pb PPM	Zn PPM	Ba PPM	
											NET CM	SLOPE	HORIZ				
S8504784	3110		-200	+500	2	SOIL	RESID	MED-GREY	GRAVLY-SILT	MED	M'ST 25	MED	B	.	15	67	3498
S8504785	3111		-225	+500	2	SOIL	RESID	MED-BROWN	GRAVLY-SAND	MED	M'ST 25	MED	B	.	46	92	5003
S8504786	3112		+0	+400	2	SOIL	TALUS	DK-RED	GRAVLY-SAND	LOW	M'ST 20	LOW	B	.	702	2170	E29141
S8504787	3113		-25	+400	2	SOIL	RESID	DK-BROWN	GRAVLY-SAND	LOW	M'ST 10	LOW	B	.	1320	580	E30442
S8504788	3114		-50	+400	2	SOIL	TALUS	MED-RED	GRAVLY-SAND	LOW	M'ST 20	MED	B	.	1150	1540	E21561
S8504789	3115		-75	+400	2	SOIL	RESID	DK-BROWN	GRAVLY-SAND	HIGH	M'ST 20	STEEP	B	.	627	570	E21776
S8504790	3116		-100	+400	2	SOIL	RESID	DK-GREY	GRAVLY-SILT	HIGH	M'ST 30	STEEP	B	.	12	362	1966
S8504791	3117		-125	+400	2	SOIL	TALUS	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	35	218	4592
S8504792	3118		-150	+400	2	SOIL	TALUS	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	MED	B	.	16	170	1435
S8504793	3119		-175	+400	2	SOIL	RESID	MED-GREY	GRAVLY-SILT	LOW	M'ST 20	STEEP	B	.	14	89	1010
S8504794	3120		-200	+400	2	SOIL	TALUS	DK-GREY	GRAVLY-SILT	MED	M'ST 20	MED	B	.	16	162	1198
S8504795	3121		+0	+300	3	SOIL	COLLU	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	MED	B	.	22	103	1428
S8504796	3122		-25	+300	3	SOIL	TALUS	MED-GREY	GRAVLY-SILT	MED	M'ST 15	STEEP	B	.	21	101	1047
S8504797	3123		-50	+300	3	SOIL	TALUS	MED-BROWN	GRAVLY-SILT	MED	M'ST 15	STEEP	B	.	21	109	1303
S8504798	3124		-75	+300	3	SOIL	TALUS	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	25	74	1072
S8504799	3125		-100	+300	3	SOIL	TALUS	LT-GREY	GRAVLY-SILT	LOW	DRY 15	STEEP	B	.	21	93	1058
S8504800	3126		-125	+300	3	SOIL	TALUS	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	23	182	1245
S8504801	3127		-150	+300	3	SOIL	TALUS	BRN-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	24	540	1321
S8504802	3128		-175	+300	3	SOIL	TALUS	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	23	164	1004
S8504803	3129		-200	+300	3	SOIL	TALUS	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	15	168	890
S8504804	3130		-225	+300	3	SOIL	TALUS	DK-GREY	GRAVLY-SILT	MED	M'ST 20	STEEP	B	.	18	181	1023
S8504805	3131		-250	+300	3	SOIL	COLLU	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	MED	B	.	171	720	5739
S8504806	3132		-275	+300	3	SOIL	COLLU	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	MED	B	.	24	162	1318
S8504807	3133		+0	+200	3	SOIL	COLLU	BRN-GREY	GRAVLY-SILT	LOW	M'ST 15	MED	B	.	24	81	927
S8504808	3134		-25	+200	3	SOIL	COLLU	BRN-GREY	GRAVLY-SILT	LOW	M'ST 15	MED	B	.	30	610	571
S8504809	3135		-50	+200	3	SOIL	COLLU	BRN-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	25	92	1018
S8504810	3136		-75	+200	3	SOIL	COLLU	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	20	153	918
S8504811	3137		-100	+200	3	SOIL	COLLU	DK-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	20	114	878
S8504812	3138		-125	+200	3	SOIL	COLLU	DK-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	20	160	901
S8504813	3139		-150	+200	3	SOIL	COLLU	MED-GREY	GRAVLY-SILT	LOW	M'ST 20	STEEP	B	.	29	332	1475
S8504814	3140		-175	+200	3	SOIL	COLLU	BRN-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	404	1440	E10077
S8504815	3141		-200	+200	3	SOIL	COLLU	MED-GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	59	670	2056
S8504816	3142		-225	+200	3	SOIL	COLLU	MED-GREY	GRAVLY-SILT	LOW	M'ST 20	STEEP	B	.	30	221	1460
S8504817	3143		-250	+200	3	SOIL	COLLU	MED-GREY	GRAVLY-SILT	LOW	DRY 20	STEEP	B	.	17	159	2052
S8504818	3144		-275	+200	3	SOIL	COLLU	DK-BLACK	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	20	740	904
S8504819	3145		-300	+200	3	SOIL	COLLU	MED-GREY	SILTY GRAVEL	LOW	M'ST 15	STEEP	B	.	53	510	890

EXP LAB FIELD		DEPTH WIDTH FLOW										Pb	Zn	Ba				
NUMBER	NO	MAP ZONE	EAST	NORTH	#	MAT'L ORIG	SITE	COLOUR	SIZE	ORG	NET CM	SLOPE	HORIZ	PPT	PH	PPM	PPM	PPM
S8504820	3146		-325	+200	3	SOIL COLLU		DK -GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	.	96	480	1426
S8504821	3147		-350	+200	3	SOIL COLLU		DK -GREY	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	.	108	1160	1645
S8504822	3148		-375	+200	3	SOIL COLLU		DK -BLACK	GRAVLY-SILT	LOW	M'ST 15	STEEP	B	.	.	49	293	530
S8504823	3149		+0	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 20	MED	B	.	.	14	37	1182
S8504824	3150		-25	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 15	MED	B	.	.	15	32	1500
S8504825	3151		-50	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 10	MED	B	.	.	43	128	2728
S8504826	3152		-75	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 20	MED	B	.	.	67	690	6684
S8504827	3153		-100	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 15	MED	B	.	.	243	3070	E22264
S8504828	3154		-125	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 10	MED	B	.	.	22	175	1393
S8504829	3155		-150	+100	2	SOIL TALUS		DK -BROWN	GRAVLY-SILT	LOW	M'ST 20	MED	B	.	.	13	112	1654
S8504830	3156		-175	+100	2	SOIL TALUS		DK -BROWN	GRAVLY-SAND	LOW	M'ST 10	MED	B	.	.	18	150	1429
S8504831	3157		-200	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 10	MED	B	.	.	17	203	1439
S8504832	3158		-225	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 10	STEEP	B	.	.	13	189	1257
S8504833	3159		-250	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SAND	LOW	M'ST 15	STEEP	B	.	.	16	91	1296
S8504834	3160		-275	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 05	STEEP	B	.	.	21	3620	1307
S8504835	3161		-300	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	MED	M'ST 10	STEEP	B	.	.	19	1110	1205
S8504836	3162		-325	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 10	STEEP	B	.	.	46	483	764
S8504837	3163		-350	+100	2	SOIL TALUS		DK -GREY	GRAVLY-SILT	LOW	M'ST 10	STEEP	B	.	.	66	640	629
S8504838	3164		-375	+100	2	SOIL TALUS		DK -BROWN	GRAVLY-SAND	LOW	M'ST 20	STEEP	B	.	.	18	117	1847
S8504839	3165		-400	+100	2	SOIL TALUS		DK -BROWN	GRAVEL	LOW	M'ST 15	STEEP	B	.	.	29	106	1333
S8504840	3166		-425	+100	2	SOIL TALUS		DK -BROWN	GRAVLY-SAND	LOW	M'ST 20	STEEP	B	.	.	27	146	1339
S8504841	3167		-450	+100	2	SOIL TALUS		DK -BROWN	GRAVLY-SAND	HIGH	M'ST 10	STEEP	B	.	.	22	74	1129
S8504842	3168		-475	+100	2	SOIL TALUS		DK -BROWN	GRAVLY-SAND	MED	M'ST 20	STEEP	B	.	.	26	75	982
S8504843	3169		+0	+0	3	SOIL TALUS		MED-BROWN	GRAVLY-SILT	MED	DRY 15	LOW	B	.	.	32	61	3908
S8504844	3170		-25	+0	3	SOIL TALUS		MED-BROWN	GRAVLY-SILT	LOW	MET 15	LOW	B	.	.	82	316	E20889
S8504845	3171		-50	+0	3	SOIL TALUS		MED-BROWN	GRAVLY-SILT	MED	M'ST 20	LOW	B	.	.	15	28	1525
S8504846	3172		-75	+0	3	SOIL RESID		MED-BROWN	GRAVLY-SILT	MED	M'ST 10	FLAT	B	.	.	10	32	1414
S8504847	3173		-100	+0	3	SOIL TALUS		MED-BROWN	GRAVLY-SILT	MED	M'ST 15	FLAT	B	.	.	12	36	1084
S8504848	3174		-125	+0	3	SOIL TALUS		DK -BROWN	GRAVLY-SILT	MED	M'ST 15	LOW	B	.	.	10	68	1180
S8504849	3175		-150	+0	3	SOIL TALUS		MED-BROWN	GRAVLY-SILT	MED	M'ST 15	LOW	B	.	.	17	52	1082
S8504850	3176		-175	+0	3	SOIL TALUS		MED-BROWN	GRAVLY-SILT	MED	M'ST 15	MED	B	.	.	18	162	1107
S8504851	3177		-200	+0	3	SOIL TALUS		BRN-GREY	GRAVLY-SILT	MED	M'ST 15	MED	B	.	.	18	134	1278
S8504852	3178		-225	+0	3	SOIL TALUS		BRN-GREY	GRAVLY-SILT	LOW	M'ST 15	LOW	B	.	.	14	226	1464
S8504853	3179		-250	+0	3	SOIL TALUS		BRN-GREY	GRAVLY-SILT	MED	M'ST 20	LOW	B	.	.	13	151	946
S8504854	3180		-275	+0	3	SOIL TALUS		BRN-GREY	GRAVLY-SILT	MED	M'ST 15	LOW	B	.	.	35	198	1196
S8504855	3181		-300	+0	3	SOIL TALUS		BRN-GREY	GRAVLY-SILT	MED	M'ST 15	MED	B	.	.	63	570	430

EXP LAB NUMBER	FIELD NO	MAP ZONE	EAST	NORTH	#	MAT'L ORIG	SITE	COLOUR	SIZE	ORG	DEPTH WIDTH FLOW			PPT	PH	Pb PPM	Zn PPM	Ba PPM
											MET CM	SLOPE	HORIZ					
S8504856	3182		-325	+0	3	SOIL TALUS	MED-BLACK	GRAVEL	LOW	M'ST 15	MED	B	.	.	763	2760	436	
S8504857	3183		-350	+0	3	SOIL TALUS	MED-BROWN	GRAVLY-SILT	MED	M'ST 15	LOW	B	.	.	15	59	1824	
S8504858	3184		-375	+0	3	SOIL TALUS	MED-BROWN	GRAVLY-SILT	MED	M'ST 20	LOW	B	.	.	16	57	990	
S8504859	3185		-400	+0	3	SOIL TALUS	MED-BROWN	GRAVLY-SILT	LOW	M'ST 15	FLAT	B	.	.	13	42	880	
S8504860	3186		+0	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SAND	MED	M'ST 25	MED	B	.	.	34	118	3979	
S8504861	3187		-25	-100	2	SOIL RESID	MED-GREY	SANDY-SILT	MED	M'ST 25	MED	B	.	.	14	41	1337	
S8504862	3188		-50	-100	2	SOIL RESID	MED-BROWN	GRAVLY-SAND	MED	M'ST 20	MED	B	.	.	21	61	1053	
S8504863	3189		-75	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SILT	MED	M'ST 30	MED	B	.	.	11	48	1082	
S8504864	3190		-100	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SAND	MED	M'ST 20	MED	B	.	.	10	34	1158	
S8504865	3191		-125	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SAND	HIGH	M'ST 25	MED	B	.	.	29	474	1218	
S8504866	3192		-150	-100	2	SOIL TALUS	DK-GREY	GRAVLY-GRAVEL	MED	M'ST 20	MED	B	.	.	15	201	1295	
S8504867	3193		-175	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SILT	HIGH	M'ST 30	MED	B	.	.	22	610	1172	
S8504868	3194		-200	-100	2	SOIL RESID	MED-GREY	GRAVLY-SILT	LOW	MET 25	MED	B	.	.	13	58	1351	
S8504869	3195		-225	-100	2	SOIL RESID	DK-GREY	GRAVLY-SILT	MED	M'ST 25	MED	B	.	.	19	183	1403	
S8504870	3196		-250	-100	2	SOIL RESID	DK-GREY	GRAVLY-SILT	MED	M'ST 30	MED	B	.	.	20	182	1457	
S8504871	3197		-275	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SILT	MED	M'ST 30	MED	B	.	.	12	136	1035	
S8504872	3198		-300	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SILT	MED	M'ST 30	MED	B	.	.	18	75	802	
S8504873	3199		-325	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SILT	MED	M'ST 20	MED	B	.	.	9	62	1299	
S8504874	3200		-350	-100	2	SOIL RESID	DK-BROWN	GRAVLY-SILT	MED	M'ST 25	MED	B	.	.	22	93	1044	
S8504875	3001		+0	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SAND	LOW	M'ST 15	STEEP	B	.	.	10	141	2214	
S8504876	3002		-25	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SAND	MED	M'ST 20	MED	B	.	.	16	114	4141	
S8504877	3003		-50	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SAND	LOW	M'ST 15	MED	B	.	.	14	84	2316	
S8504878	3004		-75	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SAND	MED	M'ST 25	STEEP	B	.	.	15	126	4191	
S8504879	3005		-100	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SAND	MED	M'ST 15	MED	B	.	.	16	66	2351	
S8504880	3006		-125	+1000	3	SOIL TALUS	RED-BROWN	GRAVLY-SAND	LOW	M'ST 35	STEEP	B	.	.	18	63	3181	
S8504881	3007		-150	+1000	3	SOIL TALUS	BRN-GREY	GRAVLY-SAND	MED	M'ST 20	MED	B	.	.	23	56	3659	
S8504882	3008		-175	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SAND	MED	M'ST 20	MED	B	.	.	17	205	3897	
S8504883	3009		-200	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SAND	MED	M'ST 15	MED	B	.	.	19	112	5535	
S8504884	3010		-225	+1000	3	SOIL TALUS	RED-BROWN	GRAVLY-SAND	MED	M'ST 20	MED	B	.	.	25	81	3425	
S8504885	3011		-250	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SILT	MED	M'ST 20	MED	B	.	.	22	62	3866	
S8504886	3012		-275	+1000	3	SOIL TALUS	BRN-GREY	GRAVLY-SILT	MED	M'ST 25	MED	B	.	.	19	40	3957	
S8504887	3013		-300	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SILT	MED	M'ST 20	MED	B	.	.	23	71	4220	
S8504888	3014		-325	+1000	3	SOIL TALUS	BRN-GREY	GRAVLY-SILT	MED	MET 50	MED	B	.	.	24	510	4999	
S8504889	3015		-350	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SILT	MED	M'ST 25	STEEP	B	.	.	18	335	4124	
S8504890	3016		-375	+1000	3	SOIL TALUS	RED-BROWN	GRAVLY-SILT	MED	M'ST 20	STEEP	B	.	.	17	72	3845	
S8504891	3017		-400	+1000	3	SOIL TALUS	MED-BROWN	GRAVLY-SAND	MED	M'ST 15	MED	B	.	.	48	123	2342	

EXP LAB FIELD												DEPTH WIDTH FLOW			Pb	Zn	Ba			
NUMBER	NO	MAP ZONE	EAST	NORTH	#	MAT'L	ORIG	SITE	COLOUR	SIZE	ORG	MET	CM	SLOPE	HORIZ	PPT	PH	PPM	PPM	PPM
S8504892	3018		-425	+1000	3	SOIL	TALUS		RED-BROWN	GRAVLY-SILT	MED	M'ST	15	STEEP	B	.	.	17	56	3027
S8504893	3019		+0	+900	2	SOIL	TALUS		MED-GREY	GRAVEL	LOW	M'ST	15	MED	B	.	.	21	138	4660
S8504894	3020		-25	+900	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	MED	M'ST	10	LOW	B	.	.	15	58	3005
S8504895	3021		-50	+900	2	SOIL	RESID		MED-BROWN	GRAVLY-SAND	MED	M'ST	05	MED	B	.	.	21	112	2545
S8504896	3022		-75	+900	2	SOIL	RESID		MED-GREY	GRAVLY-SAND	MED	M'ST	10	MED	B	.	.	16	39	3252
S8504897	3023		-100	+900	2	SOIL	RESID		MED-GREY	GRAVLY-SILT	LOW	M'ST	05	MED	B	.	.	14	33	3542
S8504898	3024		-125	+900	2	SOIL	RESID		MED-RED	GRAVLY-SAND	LOW	M'ST	15	MED	B	.	.	18	85	3126
S8504899	3025		-150	+900	2	SOIL	RESID		LT-BROWN	GRAVLY-SAND	LOW	M'ST	20	MED	B	.	.	32	114	3691
S8504900	3026		-175	+900	2	SOIL	RESID		MED-BROWN	GRAVLY-SILT	MED	M'ST	10	MED	B	.	.	25	51	3594
S8504901	3027		-200	+900	2	SOIL	RESID		DK-RED	GRAVLY-SAND	LOW	M'ST	25	MED	B	.	.	15	48	3113
S8504902	3028		-225	+900	2	SOIL	RESID		LT-BROWN	GRAVLY-SILT	LOW	M'ST	20	MED	B	.	.	23	60	3846
S8504903	3029		-250	+900	2	SOIL	RESID		LT-BROWN	GRAVLY-SILT	LOW	M'ST	35	MED	B	.	.	19	47	3763
S8504904	3030		-275	+900	2	SOIL	RESID		MED-BROWN	GRAVLY-SILT	LOW	M'ST	30	MED	B	.	.	23	48	3677
S8504905	3031		-300	+900	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	LOW	M'ST	45	STEEP	B	.	.	14	99	2885
S8504906	3032		-325	+900	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	LOW	M'ST	30	STEEP	B	.	.	23	121	1558
S8504907	3033		-350	+900	2	SOIL	RESID		MED-BROWN	GRAVLY-SAND	LOW	M'ST	50	STEEP	B	.	.	20	419	2432
S8504908	3034		-375	+900	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	LOW	M'ST	50	STEEP	B	.	.	18	64	3233
S8504909	3035		-400	+900	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	LOW	M'ST	60	MED	B	.	.	13	50	2626
S8504910	3036		-425	+900	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	MED	M'ST	45	MED	B	.	.	15	89	2767
S8504911	3037		-450	+900	2	SOIL	RESID		MED-BROWN	SILTY-SAND	MED	M'ST	15	MED	B	.	.	16	102	2921
S8504912	3038		-475	+900	2	SOIL	RESID		DK-BROWN	GRAVLY-SAND	MED	M'ST	20	MED	B	.	.	16	86	2484
S8504913	3039		-500	+900	2	SOIL	RESID		MED-GREY	GRAVLY-SILT	MED	M'ST	15	LOW	B	.	.	96	520	6052
S8504914	3040		-525	+900	2	SOIL	RESID		MED-GREY	GRAVLY-SILT	MED	M'ST	20	LOW	B	.	.	96	700	5028

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 20% HNO3 DECOMPOSITION / AAS

Zn 20% HNO3 DECOMPOSITION / AAS

Ba X-RAY FLUORESCENCE / LOOSE POWDER

STATISTICS FOR ELEMENT # 1 : PB

NUMBER OF SAMPLES = 200
 NUMBER OF MISSING VALUES(0)= 0
 NUMBER OF MISSING VALUES(999) = 0
 MINIMUM = 4.00
 MAXIMUM = 2490.00
 RANGE = 2486.00
 MEAN = 67.13
 MEDIAN = 20.00
 VARIANCE = 53595.17
 STANDARD DEVIATION = 231.51
 STANDARD ERROR = 16.37
 COEFFICIENT OF VARIATION = 3.45
 KURTOSIS = 65.35
 SKEWNESS = 7.410

STATISTICS FOR LOG 10 TRANSFORMED DATA

MEAN = 25.44
 VARIANCE = 1.46
 STANDARD DEVIATION = 2.54

STATISTICS FOR ELEMENT # 2 : ZN

NUMBER OF SAMPLES = 200
 NUMBER OF MISSING VALUES(0)= 0
 NUMBER OF MISSING VALUES(999) = 0
 MINIMUM = 24.00
 MAXIMUM = 7100.00
 RANGE = 7076.00
 MEAN = 322.82
 MEDIAN = 114.00
 VARIANCE = 475473.12
 STANDARD DEVIATION = 689.55
 STANDARD ERROR = 48.76
 COEFFICIENT OF VARIATION = 2.14
 KURTOSIS = 49.52
 SKEWNESS = 6.121

STATISTICS FOR LOG 10 TRANSFORMED DATA

MEAN = 147.43
 VARIANCE = 1.67
 STANDARD DEVIATION = 2.97

STATISTICS FOR ELEMENT # 3 : BA

NUMBER OF SAMPLES = 200
 NUMBER OF MISSING VALUES(0)= 0
 NUMBER OF MISSING VALUES(999) = 0
 MINIMUM = 54.00
 MAXIMUM = 30819.00
 RANGE = 30765.00
 MEAN = 3552.93
 MEDIAN = 2404.00
 VARIANCE = *****
 STANDARD DEVIATION = 4898.52
 STANDARD ERROR = 346.38
 COEFFICIENT OF VARIATION = 1.38
 KURTOSIS = 15.85
 SKEWNESS = 3.881

STATISTICS FOR LOG 10 TRANSFORMED DATA

MEAN = 2350.40
 VARIANCE = 1.35
 STANDARD DEVIATION = 2.29

HISTOGRAM FOR ELEMENT ZN (Soils)

FREQUENCY

25.0

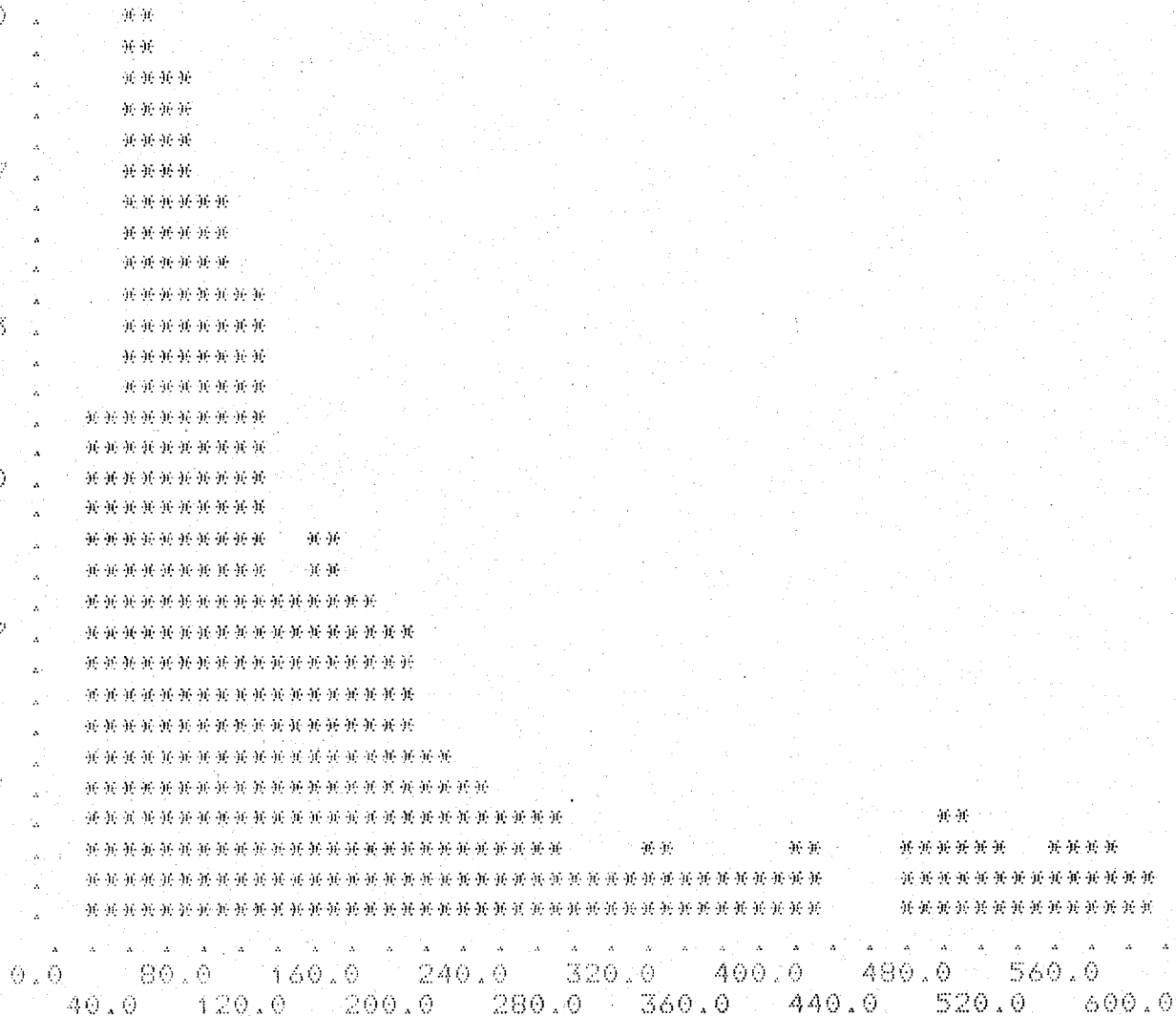
21.7

17.3

13.0

8.7

4



TOTAL NUMBER OF SAMPLES PLOTTED = 176 ELEMENT ZN
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 24 PERCENT OF POPULATION = 12.00

MEAN OF SAMPLES = 149.69
 STANDARD DEVIATION = 131.81
 MEDIAN OF SAMPLES = 103.00

PERCENT (TOTAL NUMBER OF DATA) 200 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 176

CLASS	INTERVAL LOWER PT.	INTERVAL UPPER PT.	FREQUENCY	PERCENT	ADJUSTED PERCENT	CUMULATIVE PERCENT	CLASS INTERVAL	FREQUENCY	PERCENT	PERCENT
							<1.0	0	0.00	0.00
1	0.00	20.00	0	0.00	0.00	0.00	1. - 2.	0	0.00	0.00
2	20.00	40.00	14	7.00	7.95	7.95	2. - 3.	0	0.00	0.00
3	40.00	60.00	26	13.00	14.77	22.73	3. - 4.	0	0.00	0.00
4	60.00	80.00	24	12.00	13.64	36.36	4. - 5.	0	0.00	0.00
5	80.00	100.00	20	10.00	11.36	47.73	5. - 5.	0	0.00	0.00
6	100.00	120.00	18	9.00	10.23	57.95	6. - 7.	0	0.00	0.00
7	120.00	140.00	9	4.50	5.11	63.07	8. - 9.	0	0.00	0.00
8	140.00	160.00	11	5.50	6.25	69.32	10. - 11.	0	0.00	0.00
9	160.00	180.00	9	4.50	5.11	74.43	12. - 14.	0	0.00	0.00
10	180.00	200.00	8	4.00	4.55	78.98	15. - 18.	0	0.00	0.00
11	200.00	220.00	5	2.50	2.84	81.82	19. - 23.	0	0.00	0.00
12	220.00	240.00	4	2.00	2.27	84.09	24. - 29.	2	1.00	1.00
13	240.00	260.00	3	1.50	1.70	85.80	30. - 37.	8	4.00	5.00
14	260.00	280.00	3	1.50	1.70	87.50	38. - 46.	15	7.50	12.50
15	280.00	300.00	1	0.50	0.57	88.07	47. - 58.	14	7.00	19.50
16	300.00	320.00	1	0.50	0.57	88.64	59. - 74.	21	10.50	30.00
17	320.00	340.00	2	1.00	1.14	89.77	75. - 93.	20	10.00	40.00
18	340.00	360.00	1	0.50	0.57	90.34	94. - 117.	21	10.50	50.50
19	360.00	380.00	1	0.50	0.57	90.91	118. - 147.	16	8.00	58.50
20	380.00	400.00	1	0.50	0.57	91.48	148. - 186.	18	9.00	67.50
21	400.00	420.00	2	1.00	1.14	92.61	187. - 234.	12	6.00	73.50
22	420.00	440.00	0	0.00	0.00	92.61	235. - 295.	8	4.00	77.50
23	440.00	460.00	0	0.00	0.00	92.61	296. - 371.	5	2.50	80.00
24	460.00	480.00	2	1.00	1.14	93.75	372. - 467.	4	2.00	82.00
25	480.00	500.00	3	1.50	1.70	95.45	468. - 588.	12	6.00	88.00
26	500.00	520.00	2	1.00	1.14	96.59	589. - 741.	9	4.50	92.50
27	520.00	540.00	1	0.50	0.57	97.16	742. - 933.	1	0.50	93.00
28	540.00	560.00	2	1.00	1.14	98.30	934. - 1175.	3	1.50	94.50
29	560.00	580.00	2	1.00	1.14	99.43	1176. - 1478.	3	1.50	96.00
30	580.00	600.00	1	0.50	0.57	100.00	1479. - 2000.	2	1.00	97.00
31							> 2000.	6	3.00	100.00
TOTAL			176	88.00	100.00			200	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (600)

2090.0 1490.0 7100.0 1160.0 1290.0 660.0 820.0 1360.0 2170.0 1540.0
 720.0 610.0 1440.0 670.0 740.0 1160.0 690.0 3070.0 3620.0 1110.0
 640.0 2760.0 610.0 700.0

HISTOGRAM FOR ELEMENT PB

FREQUENCY

63.0

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52.5

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0.0

20.0

40.0

60.0

80.0

100.0

120.0

140.0

10.0

30.0

50.0

70.0

90.0

110.0

130.0

150.0

TOTAL NUMBER OF SAMPLES PLOTTED = 189 ELEMENT PB
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 11 PERCENT OF POPULATION = 5.50

MEAN OF SAMPLES = 24.97
 STANDARD DEVIATION = 19.03
 MEDIAN OF SAMPLES = 19.00

PERCENT (TOTAL NUMBER OF DATA) 200 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 189

CLASS	INTERVAL LOWER PT.	INTERVAL UPPER PT.	FREQUENCY	PERCENT	ADJUSTED PERCENT	CUMULATIVE PERCENT	CLASS INTERVAL	FREQUENCY	PERCENT	PERCENT
1	0.00 -	5.00	1	0.50	0.53	0.53	<1.0	0	0.00	0.00
2	5.00 -	10.00	2	1.00	1.06	1.59	1. - 2.	0	0.00	0.00
3	10.00 -	15.00	30	15.00	15.87	17.46	2. - 3.	0	0.00	0.00
4	15.00 -	20.00	63	31.50	33.33	50.79	3. - 4.	0	0.00	0.00
5	20.00 -	25.00	43	21.50	22.75	73.54	4. - 5.	1	0.50	0.50
6	25.00 -	30.00	16	8.00	8.47	82.01	5. - 5.	0	0.00	0.50
7	30.00 -	35.00	10	5.00	5.29	87.30	6. - 7.	0	0.00	0.50
8	35.00 -	40.00	3	1.50	1.59	88.89	8. - 9.	2	1.00	1.50
9	40.00 -	45.00	2	1.00	1.06	89.95	10. - 11.	6	3.00	4.50
10	45.00 -	50.00	4	2.00	2.12	92.06	12. - 14.	24	12.00	16.50
11	50.00 -	55.00	1	0.50	0.53	92.59	15. - 18.	55	27.50	44.00
12	55.00 -	60.00	2	1.00	1.06	93.65	19. - 23.	44	22.00	66.00
13	60.00 -	65.00	1	0.50	0.53	94.18	24. - 29.	23	11.50	77.50
14	65.00 -	70.00	4	2.00	2.12	96.30	30. - 37.	12	6.00	83.50
15	70.00 -	75.00	0	0.00	0.00	96.30	38. - 46.	5	2.50	86.00
16	75.00 -	80.00	0	0.00	0.00	96.30	47. - 58.	4	2.00	88.00
17	80.00 -	85.00	1	0.50	0.53	96.83	59. - 74.	6	3.00	91.00
18	85.00 -	90.00	0	0.00	0.00	96.83	75. - 93.	1	0.50	91.50
19	90.00 -	95.00	0	0.00	0.00	96.83	94. - 117.	5	2.50	94.00
20	95.00 -	100.00	3	1.50	1.59	98.41	118. - 147.	1	0.50	94.50
21	100.00 -	105.00	0	0.00	0.00	98.41	148. - 184.	1	0.50	95.00
22	105.00 -	110.00	1	0.50	0.53	98.94	187. - 234.	0	0.00	95.00
23	110.00 -	115.00	1	0.50	0.53	99.47	235. - 295.	2	1.00	96.00
24	115.00 -	120.00	0	0.00	0.00	99.47	296. - 371.	0	0.00	96.00
25	120.00 -	125.00	0	0.00	0.00	99.47	372. - 467.	1	0.50	96.50
26	125.00 -	130.00	1	0.50	0.53	100.00	468. - 588.	1	0.50	97.00
27	130.00 -	135.00	0	0.00	0.00	100.00	589. - 741.	2	1.00	98.00
28	135.00 -	140.00	0	0.00	0.00	100.00	742. - 933.	1	0.50	98.50
29	140.00 -	145.00	0	0.00	0.00	100.00	934. - 1175.	1	0.50	99.00
30	145.00 -	150.00	0	0.00	0.00	100.00	1176. - 1478.	1	0.50	99.50
31							1479. - 2000.	0	0.00	99.50
							> 2000.	1	0.50	100.00
TOTAL			189	94.50	100.00			200	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (150)

2490.0 570.0 267.0 702.0 1320.0 1150.0 627.0 171.0 404.0 243.0
 763.0

APPENDIX E

ROCK GEOCHEMICAL DATA AND STATISTICS

LAB NO	FIELD NUMBER	SrO2 %	AL2O3 %	Fe2O3 %	FeO %	TiO2 %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	MnO %	LOI %	TOTAL %
R8509882	ERN1-1	62.57	17.99	6.60		0.93	2.05	0.13	0.30	3.82			5.14	99.53
R8509883	ERN1-2	19.15	0.37	0.41		0.03	17.27	24.14	0.23	0.23			35.86	97.69
R8509884	ERN1-3	24.51	5.44	7.83		0.24	2.72	0.66	4.92	1.14			5.74	53.20
R8509885	ERN1-4	10.06	2.26	1.29		0.12	1.92	42.86	0.42	0.09			35.00	94.02
R8509886	ERN1-5	25.93	3.87	2.21		0.20	4.19	28.90	0.32	1.15			27.28	94.05
R8509887	ERN1-6	47.99	2.42	29.02		0.16	0.05	1.30	0.55	1.31			13.57	96.37
R8509888	ERN1-7	73.96	6.85	1.39		0.28	2.13	4.58	0.02	2.73			6.62	98.56
R8509889	ERN1-8	72.07	7.13	1.47		0.29	2.73	4.42	0.02	2.85			7.60	98.58
R8509890	ERN1-9	58.29	7.92	1.93		0.04	5.21	7.67	0.42	3.00			12.21	96.69
R8509891	ERN1-10	56.17	8.25	2.14		0.43	5.49	8.24	0.03	3.09			13.13	96.97
R8509892	ERN1-11	62.20	9.01	1.83		0.45	3.60	6.49	0.04	3.33			10.07	97.02
R8509893	ERN1-12	58.29	7.71	1.57		0.38	5.31	8.14	0.03	2.85			13.57	97.85
R8509894	ERN1-13	88.31	3.25	1.24		0.20	0.17	0.17	0.02	1.32			3.96	98.64
R8509895	ERN1-14	47.81	5.43	2.61		0.28	8.51	11.80	0.03	2.20			18.96	97.63
R8509896	ERN1-15	55.64	7.74	2.08		0.43	6.47	8.26	0.03	3.48			13.97	98.10
R8509897	ERN1-16	28.31	1.68	0.50		0.07	14.62	20.49	0.03	1.10			31.06	97.86
R8509898	ERN1-17	60.46	8.45	1.68		0.43	4.00	7.55	0.04	3.08			11.40	97.09
R8509899	ERN1-18	6.50	1.67	0.91		0.07	1.01	48.46	0.02	0.26			38.41	97.31
R8509900	ERN1-19	5.29	0.82	0.66		0.04	0.22	51.08	0.12	0.17			39.59	97.99
R8509901	ERN1-20	47.60	2.22	0.48		0.11	9.84	14.35	0.03	1.53			21.94	98.10
R8509902	ERN1-21	44.09	5.68	1.86		0.32	9.38	12.90	0.03	2.85			20.39	97.50
R8509903	ERN1-22	51.44	5.38	1.43		0.31	8.17	11.22	0.03	2.49			17.98	98.45
R8509904	ERN1-23	60.79	5.28	1.52		0.33	6.07	8.43	0.03	2.61			13.48	98.54
R8509905	ERN1-24	65.83	4.32	1.47		0.28	4.57	7.88	0.58	1.61			11.50	98.04
R8509906	ERN1-25	48.48	1.16	0.89		0.08	0.72	8.55	0.03	0.52			37.11	97.54
R8509907	ERN1-26	48.59	4.07	1.22		0.24	9.14	13.16	0.03	1.54			20.83	98.82
R8509908	ERN1-27	85.94	0.32	0.42		0.04	0.23	5.80	0.02	0.24			5.86	98.87
R8509909	ERN1-28	18.60	1.25	0.45		0.05	1.44	42.07	0.50	0.09			34.04	98.49
R8509910	ERN1-29	59.90	5.01	1.19		0.26	0.17	14.64	0.03	1.35			14.79	97.34
R8509911	ERN1-30	66.75	12.00	2.40		0.47	1.49	3.22	0.17	3.23			9.00	98.73
R8509912	ERN1-31	76.92	10.45	1.02		0.62	0.86	0.29	0.02	4.31			5.11	99.60
R8509913	ERN1-32	83.71	0.01	0.48		0.01	2.92	5.02	0.01	0.06			7.18	99.40
R8509914	ERN1-33	76.37	11.70	0.28		0.58	0.64	0.10	0.02	5.21			4.67	99.57

LAB NO	FIELD NUMBER	SiO2	Al2O3	Fe2O3	FeO	TiO2	MnO	CaO	Na2O	K2O	P2O5	MgO	LOI	TOTAL
		%	%	%	%	%	%	%	%	%	%	%	%	%
R8509915	ERN1-34	69.26	9.39	2.14		0.40	2.73	4.16	0.63	3.78			6.75	99.24
R8509916	ERN1-35A	67.24	8.17	1.36		0.34	4.02	5.09	0.58	3.25			9.01	99.06
R8509917	ERN1-35B	65.18	5.91	1.87		0.36	4.13	5.65	0.92	3.06			9.39	96.47
R8509918	ERN1-37	53.48	5.75	1.81		0.22	8.39	10.91	0.48	1.86			8.51	91.41
R8509919	ERN1-38	25.00	1.10	1.10		0.05	0.32	38.75	0.03	0.27			16.49	83.11
R8509920	ERN1-39	63.39	8.46	1.60		0.36	0.92	10.17	0.20	2.34			3.92	91.36
R8509921	ERN1-40	68.31	14.53	1.91		0.58	1.29	0.64	0.12	4.35			7.11	98.84

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

FeO DETERMINED BY ACID DIGESTION /VOLUMETRIC. LOI DETERMINED GRAVIMETRICALLY

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

LAB NO	FIELD NUMBER	Pb PPM	Zn PPM	Hg PPB	Ba (4) PPM
R8509882	ERN1-1	15	165	38	3908
R8509883	ERN1-2	5	166	35	7323
R8509884	ERN1-3	39	929	300	316676
R8509885	ERN1-4	12	77	27	20289
R8509886	ERN1-5	24	336	130	20139
R8509887	ERN1-6	85	713	500	8246
R8509888	ERN1-7	6	25	35	716
R8509889	ERN1-8	8	29	30	698
R8509890	ERN1-9	7	25	25	646
R8509891	ERN1-10	9	19	16	609
R8509892	ERN1-11	12	25	18	629
R8509893	ERN1-12	8	13	27	517
R8509894	ERN1-13	17	271	330	350
R8509895	ERN1-14	6	30	54	440
R8509896	ERN1-15	6	34	50	840
R8509897	ERN1-16	<4	29	10	3815
R8509898	ERN1-17	11	14	38	505
R8509899	ERN1-18	16	36	<10	805
R8509900	ERN1-19	10	54	10	1194
R8509901	ERN1-20	4	135	<10	1911
R8509902	ERN1-21	6	19	12	1334
R8509903	ERN1-22	7	52	42	750
R8509904	ERN1-23	4	15	46	768
R8509905	ERN1-24	6	16	27	798
R8509906	ERN1-25	<4	66	30	140
R8509907	ERN1-26	7	92	60	465
R8509908	ERN1-27	<4	225	140	94
R8509909	ERN1-28	<4	289	100	78
R8509910	ERN1-29	6	208	80	428
R8509911	ERN1-30	8	843	90	697
R8509912	ERN1-31	39	69	>230	394
R8509913	ERN1-32	<4	63	24	25
R8509914	ERN1-33	14	16	170	905
R8509915	ERN1-34	9	47	16	629
R8509916	ERN1-35A	5	57	31	777
R8509917	ERN1-35B	<4	17	15	534
R8509918	ERN1-37	11	133	50	327
R8509919	ERN1-38	4	44	18	63
R8509920	ERN1-39	9	430	110	514
R8509921	ERN1-40	12	249	100	653
R8509922	ERN2-1	11	831	100	588
R8509923	ERN2-2	4	25	38	586
R8509924	ERN2-3	5	69	32	604
R8509925	ERN2-4	8	33	12	682
R8509926	ERN2-5	7	67	10	743
R8509927	ERN2-6	6	43	<10	593
R8509928	ERN2-7	5	43	16	2301
R8509929	ERN2-8	4	32	10	12614
R8509930	ERN2-9	6	51	42	4087
R8509931	ERN2-9A	<4	1140	E1400	4598
R8509932	ERN2-10	<4	70	27	7253

LAB NO	FIELD NUMBER	Pb PPM	Zn PPM	Hg PPB	Ba (4) PPM
R8509933	ERN2-10A	4	66	50	6260
R8509934	ERN2-11	12	1300	250	65981
R8509935	ERN2-12	<4	68	40	531
R8509936	ERN2-12A	14	93	34	5076
R8509937	ERN2-13	<4	36	17	378
R8509938	ERN2-14	<4	80	10	403
R8509939	ERN2-15	<4	25	13	61
R8509940	ERN2-16	<4	16	15	71
R8509941	ERN2-17	<4	21	12	<20
R8509942	ERN2-18	15	111	70	2734
R8509943	ERN2-19	12	134	25	2768
R8509944	ERN2-20	<4	33	<10	54
R8509945	ERN3-1	4	14	<10	603
R8509946	ERN3-2	<4	41	24	1315
R8509947	ERN3-3	4	21	20	796
R8509948	ERN3-4	<4	30	54	1954
R8509949	ERN3-5	<4	13	13	1126
R8509950	ERN3-6	7	15	10	2151
R8509951	ERN3-7	14	108	45	2044
R8509952	ERN3-8	12	130	35	2245
R8509953	ERN3-9	2190	4960	E29000	356919
R8509954	ERN3-10	11	48	82	1830
R8509955	ERN3-11	17	75	230	3070
R8509956	ERN3-12	9	25	43	2007
R8509957	ERN3-13	6	229	60	1432
R8509958	ERN3-14	6	59	12	1679
R8509959	ERN3-15	4	49	10	720
R8509960	ERN3-16	5	22	13	659
R8509961	ERN3-17	14	33	60	886
R8509962	ERN3-18	6	34	16	615
R8509963	ERN3-19	7	76	13	722
R8509964	ERN3-20	5	38	14	630
R8509965	ERN-DR85-2	<4	2940		166
R8509966	ERN-DR85-3	4	E18700		66
R8509967	ERN-DR85-4	1190	110		75859
R8509968	ERN-DR85-5	2630	E43100		88916
R8509969	ERN4-0	15	163	48	707
R8509970	ERN4-1	18	129	43	976
R8509971	ERN4-2	9	151	35	662
R8509972	ERN4-3	8	64	32	637
R8509973	ERN4-4	9	61	27	680
R8509974	ERN4-5	8	31	80	590
R8509975	ERN4-6	6	23	25	614
R8509976	ERN4-7	10	27	26	723
R8509977	ERN4-8	5	23	<10	583
R8509978	ERN4-9	9	40	29	1057
R8509979	ERN4-10	6	61	19	1198
R8509980	ERN4-11	6	28	15	1731
R8509981	ERN4-12	6	15	36	1944
R8509982	ERN4-13	8	80	<10	1083
R8509983	ERN4-15	12	20	10	767
R8509984	ERN4-16	9	23	15	691
R8509985	ERN4-17	5	37	55	584
R8509986	ERN4-18	8	41	50	747

LAB NO	FIELD NUMBER	Pb PPM	Zn PPM	Hg PPB	Ba(4) PPM
RB509987	ERN4-19	9	39	40	691
RB509988	ERN4-20	9	136	20	651
RB509989	ERN4-21	10	228	64	850
RB509990	ERN4-22	15	447	100	1050
RB509991	ERN4-23	29	28	128	425
RB509992	ERN4-24	47	454	160	370
RB509993	ERN4-25	109	966	760	497
RB509994	ERN4-26	10	173	15	733
RB509995	ERN4-27	<4	35	10	750
RB509996	ERN4-28	4	32	<10	450
RB509997	ERN4-29	5	29	<10	380
RB509998	ERN4-30	<4	14	<10	431
RB509999	ERN4-31	4	11	24	423
RB510000	ERN4-32	10	89	20	336

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
 Hg FLAMELESS AAS
 Ba(4) X-RAY FLUORESCENCE

AKIE1

Rocks

STATISTICS FOR ELEMENT # 1 : FR

NUMBER OF SAMPLES = 119
 NUMBER OF MISSING VALUES(0)= 0
 NUMBER OF MISSING VALUES(999) = 0
 MINIMUM = 4.00
 MAXIMUM = 2630.00
 RANGE = 2626.00
 MEAN = 60.56
 MEDIAN = 7.00
 VARIANCE = 107848.62
 STANDARD DEVIATION = 328.40
 STANDARD ERROR = 30.10
 COEFFICIENT OF VARIATION = 5.42
 KURTOSIS = 45.33
 SKEWNESS = 6.654

STATISTICS FOR LOG 10 TRANSFORMED DATA

MEAN = 8.75
 VARIANCE = 1.67
 STANDARD DEVIATION = 2.96

STATISTICS FOR ELEMENT # 2 : ZN

NUMBER OF SAMPLES = 119
 NUMBER OF MISSING VALUES(0)= 0
 NUMBER OF MISSING VALUES(999) = 0
 MINIMUM = 11.00
 MAXIMUM = 43100.00
 RANGE = 43089.00
 MEAN = 714.37
 MEDIAN = 50.00
 VARIANCE = *****
 STANDARD DEVIATION = 4306.16
 STANDARD ERROR = 394.74
 COEFFICIENT OF VARIATION = 6.03
 KURTOSIS = 79.83
 SKEWNESS = 8.632

STATISTICS FOR LOG 10 TRANSFORMED DATA

MEAN = 72.26
 VARIANCE = 2.51
 STANDARD DEVIATION = 4.29

STATISTICS FOR ELEMENT # 3 : HG

NUMBER OF SAMPLES = 119
NUMBER OF MISSING VALUES(0)= 4
NUMBER OF MISSING VALUES(999) = 0
MINIMUM = 10.00
MAXIMUM = 29000.00
RANGE = 28990.00
MEAN = 322.67
MEDIAN = 29.50
VARIANCE = 7302379.00
STANDARD DEVIATION = 2702.29
STANDARD ERROR = 251.99
COEFFICIENT OF VARIATION = 8.37
KURTOSIS = 109.23
SKEWNESS = 10.392

STATISTICS FOR LOG 10 TRANSFORMED DATA

MEAN = 35.45
VARIANCE = 1.90
STANDARD DEVIATION = 3.38

STATISTICS FOR ELEMENT # 4 : BA

NUMBER OF SAMPLES = 119
NUMBER OF MISSING VALUES(0)= 0
NUMBER OF MISSING VALUES(999) = 0
MINIMUM = 20.00
MAXIMUM = 356919.00
RANGE = 356899.00
MEAN = 9177.86
MEDIAN = 718.00
VARIANCE = *****
STANDARD DEVIATION = 44821.11
STANDARD ERROR = 4108.74
COEFFICIENT OF VARIATION = 4.88
KURTOSIS = 47.05
SKEWNESS = 6.724

STATISTICS FOR LOG 10 TRANSFORMED DATA

MEAN = 965.03
VARIANCE = 2.94
STANDARD DEVIATION = 4.83

HISTOGRAM FOR ELEMENT ZN

FREQUENCY

35.0

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29.2

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23.3

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17.5

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0.0 80.0 160.0 240.0 320.0 400.0 480.0 560.0
40.0 120.0 200.0 280.0 360.0 440.0 520.0 600.0

TOTAL NUMBER OF SAMPLES PLOTTED = 108 ELEMENT ZN
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 11 PERCENT OF POPULATION = 9.24

MEAN OF SAMPLES = 79.52
 STANDARD DEVIATION = 90.72
 MEDIAN OF SAMPLES = 43.00

PERCENT (TOTAL NUMBER OF DATA) 119 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 108

CLASS	INTERVAL LOWER PT.	INTERVAL UPPER PT.	FREQUENCY	PERCENT	ADJUSTED PERCENT	CUMULATIVE PERCENT	CLASS INTERVAL	FREQUENCY	PERCENT	PERCENT
							< 1.0	0	0.00	0.00
1	0.00 -	20.00	15	12.61	13.89	13.89	1. - 2.	0	0.00	0.00
2	20.00 -	40.00	35	29.41	32.41	46.30	2. - 3.	0	0.00	0.00
3	40.00 -	60.00	14	11.76	12.96	59.26	3. - 4.	0	0.00	0.00
4	60.00 -	80.00	15	12.61	13.89	73.15	4. - 5.	0	0.00	0.00
5	80.00 -	100.00	4	3.36	3.70	76.85	5. - 5.	0	0.00	0.00
6	100.00 -	120.00	3	2.52	2.78	79.63	6. - 7.	0	0.00	0.00
7	120.00 -	140.00	6	5.04	5.56	85.19	8. - 9.	0	0.00	0.00
8	140.00 -	160.00	1	0.84	0.93	86.11	10. - 11.	1	0.84	0.84
9	160.00 -	180.00	4	3.36	3.70	89.81	12. - 14.	5	4.20	5.04
10	180.00 -	200.00	0	0.00	0.00	89.81	15. - 18.	7	5.88	10.92
11	200.00 -	220.00	1	0.84	0.93	90.74	19. - 23.	9	7.56	18.49
12	220.00 -	240.00	3	2.52	2.78	93.52	24. - 29.	12	10.08	28.57
13	240.00 -	260.00	1	0.84	0.93	94.44	30. - 37.	14	11.76	40.34
14	260.00 -	280.00	1	0.84	0.93	95.37	38. - 46.	8	6.72	47.06
15	280.00 -	300.00	1	0.84	0.93	96.30	47. - 58.	7	5.88	52.94
16	300.00 -	320.00	0	0.00	0.00	96.30	59. - 74.	13	10.92	63.87
17	320.00 -	340.00	1	0.84	0.93	97.22	75. - 93.	7	5.88	69.75
18	340.00 -	360.00	0	0.00	0.00	97.22	94. - 117.	3	2.52	72.27
19	360.00 -	380.00	0	0.00	0.00	97.22	118. - 147.	6	5.04	77.31
20	380.00 -	400.00	0	0.00	0.00	97.22	148. - 186.	5	4.20	81.51
21	400.00 -	420.00	0	0.00	0.00	97.22	187. - 234.	4	3.36	84.87
22	420.00 -	440.00	1	0.84	0.93	98.15	235. - 295.	3	2.52	87.39
23	440.00 -	460.00	2	1.68	1.85	100.00	296. - 371.	1	0.84	88.24
24	460.00 -	480.00	0	0.00	0.00	100.00	372. - 467.	3	2.52	90.76
25	480.00 -	500.00	0	0.00	0.00	100.00	468. - 588.	0	0.00	90.76
26	500.00 -	520.00	0	0.00	0.00	100.00	589. - 741.	1	0.84	91.60
27	520.00 -	540.00	0	0.00	0.00	100.00	742. - 933.	3	2.52	94.12
28	540.00 -	560.00	0	0.00	0.00	100.00	934. - 1175.	2	1.68	95.80
29	560.00 -	580.00	0	0.00	0.00	100.00	1176. - 1478.	1	0.84	96.64
30	580.00 -	600.00	0	0.00	0.00	100.00	1479. - 2000.	0	0.00	96.64
31							> 2000.	4	3.36	100.00
TOTAL			108	90.76	100.00			119	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (600)

929.0 713.0 843.0 831.0 1140.0 1300.0 4960.0 2940.0 18700.0 43100.0
 966.0

HISTOGRAM FOR ELEMENT PB (Rock)

FREQUENCY

48.0 . **

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0.0 20.0 40.0 60.0 80.0 100.0 120.0 140.0
 10.0 30.0 50.0 70.0 90.0 110.0 130.0 150.0

TOTAL NUMBER OF SAMPLES PLOTTED = 116 ELEMENT PB
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 3 PERCENT OF POPULATION = 2.52

MEAN OF SAMPLES = 10.32
 STANDARD DEVIATION = 13.57
 MEDIAN OF SAMPLES = 7.00

PERCENT (TOTAL NUMBER OF DATA) 119 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 116

CLASS	INTERVAL LOWER PT.	INTERVAL UPPER PT.	FREQUENCY	PERCENT	ADJUSTED PERCENT	CUMULATIVE PERCENT	CLASS INTERVAL	FREQUENCY	PERCENT	PERCENT
1	0.00 -	5.00	33	27.73	28.45	28.45	11.0	0	0.00	0.00
2	5.00 -	10.00	48	40.34	41.38	69.83	1. - 2.	0	0.00	0.00
3	10.00 -	15.00	20	16.81	17.24	87.07	2. - 3.	0	0.00	0.00
4	15.00 -	20.00	8	6.72	6.90	93.97	3. - 4.	0	0.00	0.00
5	20.00 -	25.00	1	0.84	0.86	94.83	4. - 5.	33	27.73	27.73
6	25.00 -	30.00	1	0.84	0.86	95.69	5. - 5.	9	7.56	35.29
7	30.00 -	35.00	0	0.00	0.00	95.69	6. - 7.	21	17.65	52.94
8	35.00 -	40.00	2	1.68	1.72	97.41	8. - 9.	18	15.13	68.07
9	40.00 -	45.00	0	0.00	0.00	97.41	10. - 11.	9	7.56	75.63
10	45.00 -	50.00	1	0.84	0.86	98.28	12. - 14.	11	9.24	84.87
11	50.00 -	55.00	0	0.00	0.00	98.28	15. - 18.	8	6.72	91.60
12	55.00 -	60.00	0	0.00	0.00	98.28	19. - 23.	0	0.00	91.60
13	60.00 -	65.00	0	0.00	0.00	98.28	24. - 29.	2	1.68	93.28
14	65.00 -	70.00	0	0.00	0.00	98.28	30. - 37.	0	0.00	93.28
15	70.00 -	75.00	0	0.00	0.00	98.28	38. - 46.	2	1.68	94.96
16	75.00 -	80.00	0	0.00	0.00	98.28	47. - 58.	1	0.84	95.80
17	80.00 -	85.00	0	0.00	0.00	98.28	59. - 74.	0	0.00	95.80
18	85.00 -	90.00	1	0.84	0.86	99.14	75. - 93.	1	0.84	96.64
19	90.00 -	95.00	0	0.00	0.00	99.14	94. - 117.	1	0.84	97.48
20	95.00 -	100.00	0	0.00	0.00	99.14	118. - 147.	0	0.00	97.48
21	100.00 -	105.00	0	0.00	0.00	99.14	148. - 186.	0	0.00	97.48
22	105.00 -	110.00	1	0.84	0.86	100.00	187. - 234.	0	0.00	97.48
23	110.00 -	115.00	0	0.00	0.00	100.00	235. - 295.	0	0.00	97.48
24	115.00 -	120.00	0	0.00	0.00	100.00	296. - 371.	0	0.00	97.48
25	120.00 -	125.00	0	0.00	0.00	100.00	372. - 467.	0	0.00	97.48
26	125.00 -	130.00	0	0.00	0.00	100.00	468. - 588.	0	0.00	97.48
27	130.00 -	135.00	0	0.00	0.00	100.00	589. - 741.	0	0.00	97.48
28	135.00 -	140.00	0	0.00	0.00	100.00	742. - 933.	0	0.00	97.48
29	140.00 -	145.00	0	0.00	0.00	100.00	934. - 1175.	0	0.00	97.48
30	145.00 -	150.00	0	0.00	0.00	100.00	1176. - 1478.	1	0.84	98.32
31			0	0.00	0.00	100.00	1479. - 2000.	0	0.00	98.32
							> 2000.	2	1.68	100.00
TOTAL			116	97.48	100.00			119	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (150)

2190.0 1190.0 2630.0

HISTOGRAM FOR ELEMENT BA

FREQUENCY

19.0

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15.8

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12.7

9.5

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400.0

800.0

1200.0

1600.0

2000.0

2400.0

2800.0

200.0

600.0

1000.0

1400.0

1800.0

2200.0

2600.0

3000.0

TOTAL NUMBER OF SAMPLES PLOTTED = 101 ELEMENT BA
 NUMBER OF MISSING VALUES = 0
 SAMPLES ABOVE MAXIMUM = 18 PERCENT OF POPULATION = 15.13

MEAN OF SAMPLES = 803.34
 STANDARD DEVIATION = 587.24
 MEDIAN OF SAMPLES = 656.00

PERCENT (TOTAL NUMBER OF DATA) 119 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 101

CLASS	INTERVAL LOWER PT.	INTERVAL UPPER PT.	FREQUENCY	PERCENT	ADJUSTED PERCENT	CUMULATIVE PERCENT	CLASS INTERVAL	FREQUENCY	PERCENT	PERCENT
							<1.0	0	0.00	0.00
1	0.00 -	100.00	9	7.56	8.91	8.91	1. - 2.	0	0.00	0.00
2	100.00 -	200.00	2	1.68	1.98	10.89	2. - 3.	0	0.00	0.00
3	200.00 -	300.00	0	0.00	0.00	10.89	3. - 4.	0	0.00	0.00
4	300.00 -	400.00	7	5.88	6.93	17.82	4. - 5.	0	0.00	0.00
5	400.00 -	500.00	9	7.56	8.91	26.73	5. - 5.	0	0.00	0.00
6	500.00 -	600.00	11	9.24	10.89	37.62	6. - 7.	0	0.00	0.00
7	600.00 -	700.00	19	15.97	18.81	56.44	8. - 9.	0	0.00	0.00
8	700.00 -	800.00	15	12.61	14.85	71.29	10. - 11.	0	0.00	0.00
9	800.00 -	900.00	5	4.20	4.95	76.24	12. - 14.	0	0.00	0.00
10	900.00 -	1000.00	2	1.68	1.98	78.22	15. - 18.	0	0.00	0.00
11	1000.00 -	1100.00	3	2.52	2.97	81.19	19. - 23.	1	0.84	0.84
12	1100.00 -	1200.00	3	2.52	2.97	84.16	24. - 29.	1	0.84	1.68
13	1200.00 -	1300.00	0	0.00	0.00	84.16	30. - 37.	0	0.00	1.68
14	1300.00 -	1400.00	2	1.68	1.98	86.14	38. - 46.	0	0.00	1.68
15	1400.00 -	1500.00	1	0.84	0.99	87.13	47. - 58.	1	0.84	2.52
16	1500.00 -	1600.00	0	0.00	0.00	87.13	59. - 74.	4	3.36	5.88
17	1600.00 -	1700.00	1	0.84	0.99	88.12	75. - 93.	1	0.84	6.72
18	1700.00 -	1800.00	1	0.84	0.99	89.11	94. - 117.	1	0.84	7.56
19	1800.00 -	1900.00	1	0.84	0.99	90.10	118. - 147.	1	0.84	8.40
20	1900.00 -	2000.00	3	2.52	2.97	93.07	148. - 186.	1	0.84	9.24
21	2000.00 -	2100.00	2	1.68	1.98	95.05	187. - 234.	0	0.00	9.24
22	2100.00 -	2200.00	1	0.84	0.99	96.04	235. - 295.	0	0.00	9.24
23	2200.00 -	2300.00	1	0.84	0.99	97.03	296. - 371.	4	3.36	12.61
24	2300.00 -	2400.00	1	0.84	0.99	98.02	372. - 467.	11	9.24	21.85
25	2400.00 -	2500.00	0	0.00	0.00	98.02	468. - 588.	10	8.40	30.25
26	2500.00 -	2600.00	0	0.00	0.00	98.02	589. - 741.	27	22.69	52.94
27	2600.00 -	2700.00	0	0.00	0.00	98.02	742. - 933.	15	12.61	65.55
28	2700.00 -	2800.00	2	1.68	1.98	100.00	934. - 1175.	5	4.20	69.75
29	2800.00 -	2900.00	0	0.00	0.00	100.00	1176. - 1478.	5	4.20	73.95
30	2900.00 -	3000.00	0	0.00	0.00	100.00	1479. - 2000.	6	5.04	78.99
31							> 2000.	25	21.01	100.00
TOTAL			101	84.87	100.00			119	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (3000)

3908.0 7323.0316676.0 20289.0 20139.0 8246.0 3815.0 12614.0 4087.0 4598.0
 7253.0 6260.0 65981.0 5076.0356919.0 3070.0 75859.0 88916.0

Hg (Rock)

HISTOGRAM FOR ELEMENT HG

FREQUENCY

41.0

34.2

27.3

20.5

13.7

6.8

0.0

40.0

80.0

120.0

160.0

200.0

240.0

280.0

20.0

60.0

100.0

140.0

180.0

220.0

260.0

300.0

TOTAL NUMBER OF SAMPLES PLOTTED = 109 ELEMENT HG
 NUMBER OF MISSING VALUES = 4
 SAMPLES ABOVE MAXIMUM = 6 PERCENT OF POPULATION = 5.22

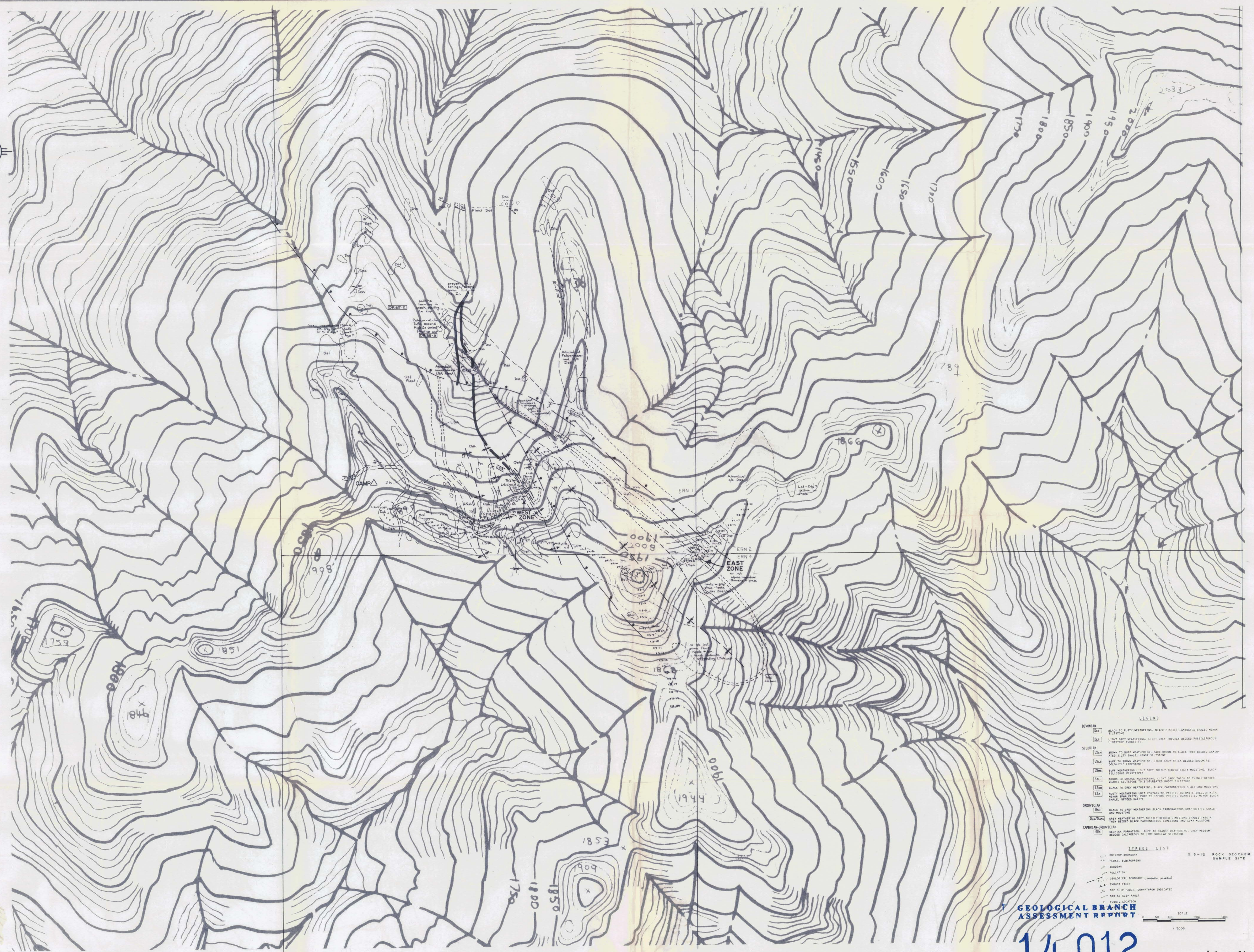
MEAN OF SAMPLES = 44.19
 STANDARD DEVIATION = 48.10
 MEDIAN OF SAMPLES = 27.00

PERCENT (TOTAL NUMBER OF DATA) 119 ADJUSTED PERCENT (DATA USED IN HISTOGRAM) 109

CLASS	INTERVAL LOWER PT.	INTERVAL UPPER PT.	FREQUENCY	PERCENT	ADJUSTED PERCENT	CUMULATIVE PERCENT	CLASS INTERVAL	FREQUENCY	PERCENT	PERCENT
							<1.0	0	0.00	0.00
1	0.00 -	10.00	0	0.00	0.00	0.00	1. - 2.	0	0.00	0.00
2	10.00 -	20.00	41	34.45	37.61	37.61	2. - 3.	0	0.00	0.00
3	20.00 -	30.00	16	13.45	14.68	52.29	3. - 4.	0	0.00	0.00
4	30.00 -	40.00	14	11.76	12.84	65.14	4. - 5.	0	0.00	0.00
5	40.00 -	50.00	9	7.56	8.26	73.39	5. - 5.	0	0.00	0.00
6	50.00 -	60.00	7	5.88	6.42	79.82	6. - 7.	0	0.00	0.00
7	60.00 -	70.00	3	2.52	2.75	82.57	8. - 9.	0	0.00	0.00
8	70.00 -	80.00	1	0.84	0.92	83.49	10. - 11.	19	16.52	16.52
9	80.00 -	90.00	4	3.36	3.67	87.16	12. - 14.	9	7.83	24.35
10	90.00 -	100.00	1	0.84	0.92	88.07	15. - 18.	12	10.43	34.78
11	100.00 -	110.00	3	2.52	2.75	90.83	19. - 23.	4	3.48	38.26
12	110.00 -	120.00	1	0.84	0.92	91.74	24. - 29.	13	11.30	49.57
13	120.00 -	130.00	1	0.84	0.92	92.66	30. - 37.	11	9.57	59.13
14	130.00 -	140.00	1	0.84	0.92	93.58	38. - 46.	11	9.57	68.70
15	140.00 -	150.00	1	0.84	0.92	94.50	47. - 58.	8	6.96	75.65
16	150.00 -	160.00	0	0.00	0.00	94.50	59. - 74.	4	3.48	79.13
17	160.00 -	170.00	2	1.68	1.83	96.33	75. - 93.	5	4.35	83.48
18	170.00 -	180.00	1	0.84	0.92	97.25	94. - 117.	4	3.48	86.96
19	180.00 -	190.00	0	0.00	0.00	97.25	118. - 147.	3	2.61	89.57
20	190.00 -	200.00	0	0.00	0.00	97.25	148. - 186.	3	2.61	92.17
21	200.00 -	210.00	0	0.00	0.00	97.25	187. - 234.	2	1.74	93.91
22	210.00 -	220.00	0	0.00	0.00	97.25	235. - 295.	1	0.87	94.78
23	220.00 -	230.00	0	0.00	0.00	97.25	296. - 371.	2	1.74	96.52
24	230.00 -	240.00	2	1.68	1.83	99.08	372. - 467.	0	0.00	96.52
25	240.00 -	250.00	0	0.00	0.00	99.08	468. - 588.	1	0.87	97.39
26	250.00 -	260.00	1	0.84	0.92	100.00	589. - 741.	0	0.00	97.39
27	260.00 -	270.00	0	0.00	0.00	100.00	742. - 933.	1	0.87	98.26
28	270.00 -	280.00	0	0.00	0.00	100.00	934. - 1175.	0	0.00	98.26
29	280.00 -	290.00	0	0.00	0.00	100.00	1176. - 1478.	1	0.87	99.13
30	290.00 -	300.00	0	0.00	0.00	100.00	1479. - 2000.	0	0.00	99.13
31							> 2000.	1	0.87	100.00
TOTAL			109	91.60	100.00			115	100.00	

LIST OF DATA ABOVE MAXIMUM VALUE (300)

300.0 500.0 330.0 1400.0 29000.0 760.0



- LEGEND**
- DEVONIAN**
- D11 BLACK TO RUSTY WEATHERING, BLACK FISSILE LAMINATED SHALE, MINOR SILTSTONE
 - D12 LIGHT GREY WEATHERING, LIGHT GREY THICKLY BEDDED POSSILIFEROUS LIMESTONE TUBSITES
- SILURIAN**
- S13 BROWN TO BUFF WEATHERING, DARK BROWN TO BLACK THIN BEDDED LAMINATED SILTY SHALE, MINOR SILTSTONE
 - S14 BUFF TO BROWN WEATHERING, LIGHT GREY THICK BEDDED DOLOMITE, DOLOMITIC LIMESTONE
 - S15 BUFF WEATHERING, LIGHT GREY THINLY BEDDED SILTY MUDSTONE, BLACK BEDDED MUDSTONES
 - S16 BROWN TO ORANGE WEATHERING, LIGHT GREY THICK TO THINLY BEDDED QUARTZ SILTSTONE TO BEDDED SAND SILTSTONE
 - S17 BLACK TO GREY WEATHERING, BLACK CARBONACEOUS SHALE AND MUDSTONE
 - S18 RUSTY WEATHERING UNIT CONTAINING FRAGILE DOLOMITE, BRICKS WITH IRON FRONTS, PASS TO IMPURE FRAGILE QUARTZITE, MINOR SHALE, BEDDED SANDS
- ORDOVICIAN**
- O19 BLACK TO GREY WEATHERING, BLACK CARBONACEOUS ORAPTOLITIC SHALE AND MUDSTONE
 - O20 GREY WEATHERING, GREY THICKLY BEDDED LIMESTONE GRADES INTO A THIN BEDDED BLACK CARBONACEOUS LIMESTONE AND LAMP MUDSTONE
- CAMBRIAN-ORDOVICIAN**
- C21 ACETONA FORMATION, BUFF TO ORANGE WEATHERING, GREY MEDIUM BEDDED CALCARENOS TO LAMP MUDSTONE SILTSTONE

- SYMBOL LIST**
- OUTCROP BOUNDARY
 - FOLD, SUBCROPPING
 - BEDDING
 - FRACURATION
 - GEOLOGICAL BOUNDARY (possible, possible)
 - THRUST FAULT
 - DIP-SLIP FAULT, DOWN-THROW INDICATED
 - NORMAL SLIP FAULT
 - POSSIBLE LOCATION

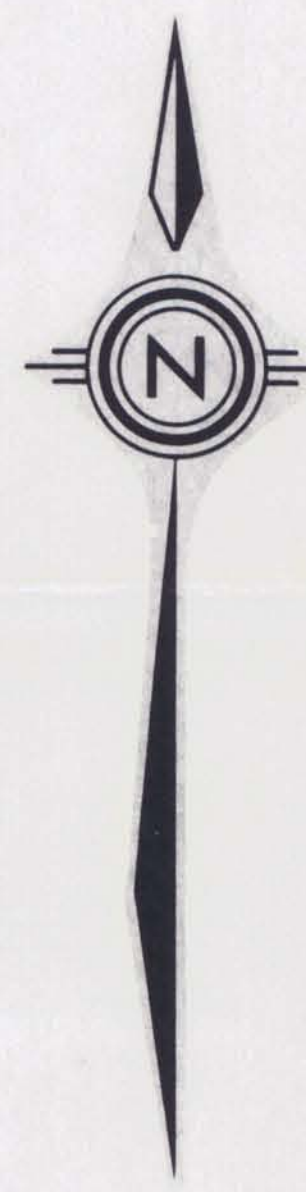
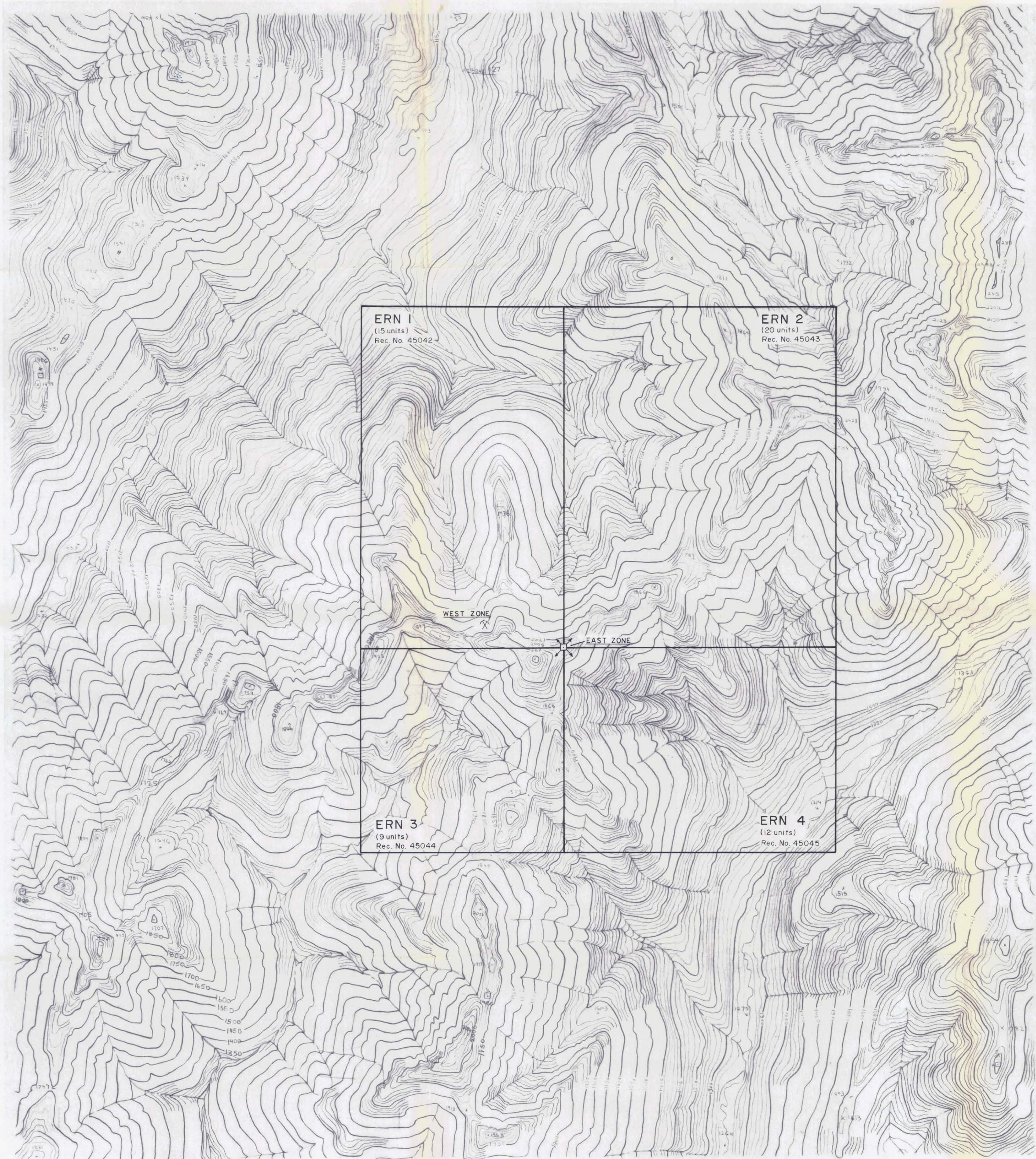
GEOLOGICAL BRANCH ASSESSMENT REPORT

Scale 1:5000 Date SEPT., 1985

14,012

BY D. RHODES *Dud Rhodes*

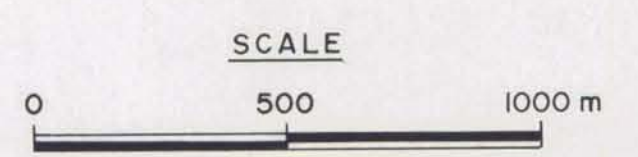
ERN PROPERTY		947/2E	
Drawn by:	Traced by:	GEOLOGY MAP COMBINING PREVIOUS MAPPING AND 1985 MAPPING	
Checked by:	Reviewed by:	OMINECA M. D., B. C.	
Scale 1:5000	Date SEPT., 1985	Sheet 4	Plate 4



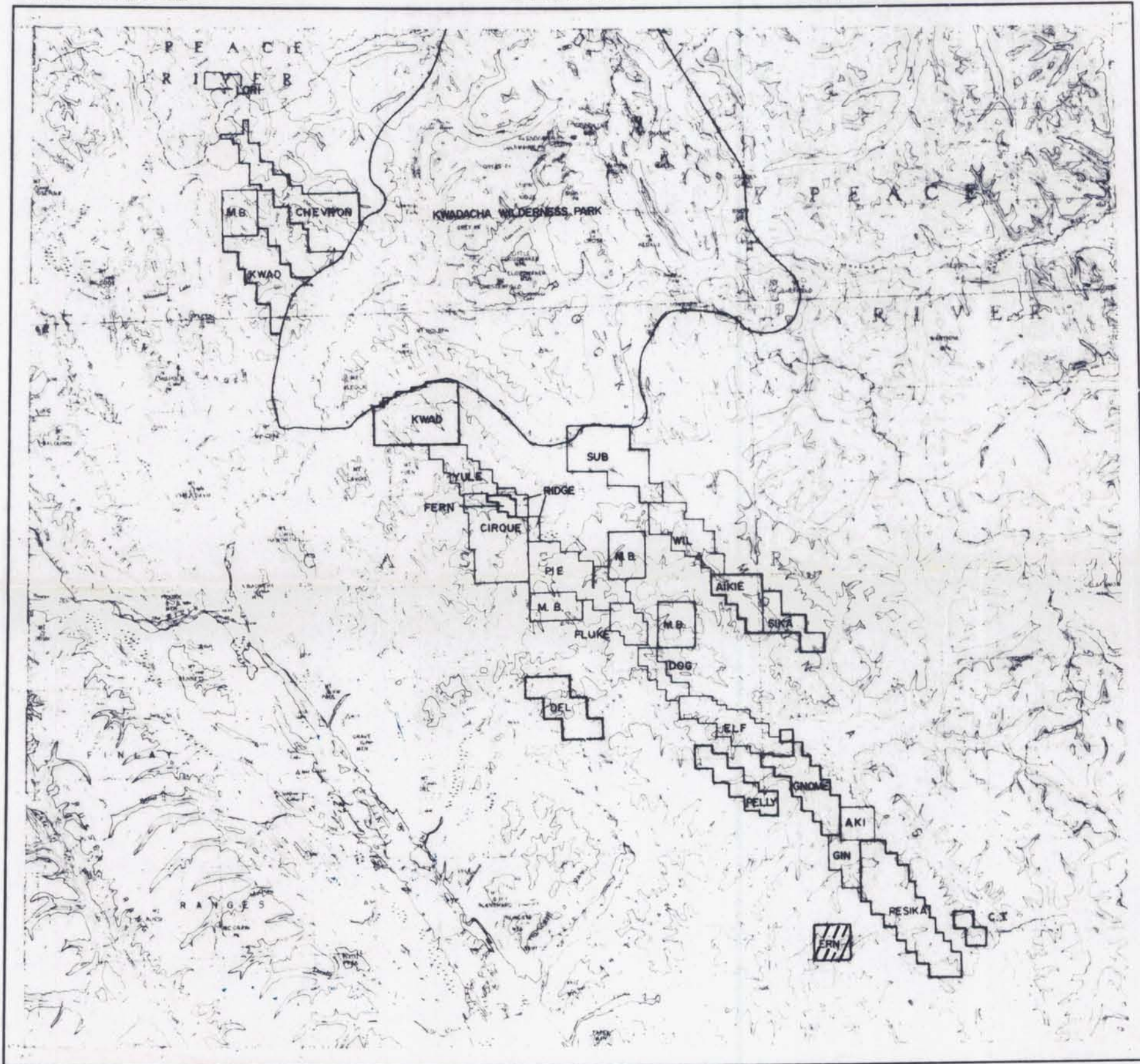
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,012

Claim map to accompany assessment report
on the ERN CLAIMS Nos. 1-4 by D. RHODES *D. Rhodes*
dated, September 16, 1985



ERN PROPERTY				94 F/2 E
Drawn by: <i>J.B.S.</i>	Traced by:			CLAIM MAP OMINECA M.D., B.C.
Revised by: <i>J.B.S.</i>	Date: <i>5/8/85</i>	Revised by:	Date:	
Scale: 1:15,000		Date: October 16, 1981		Plate: 8



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

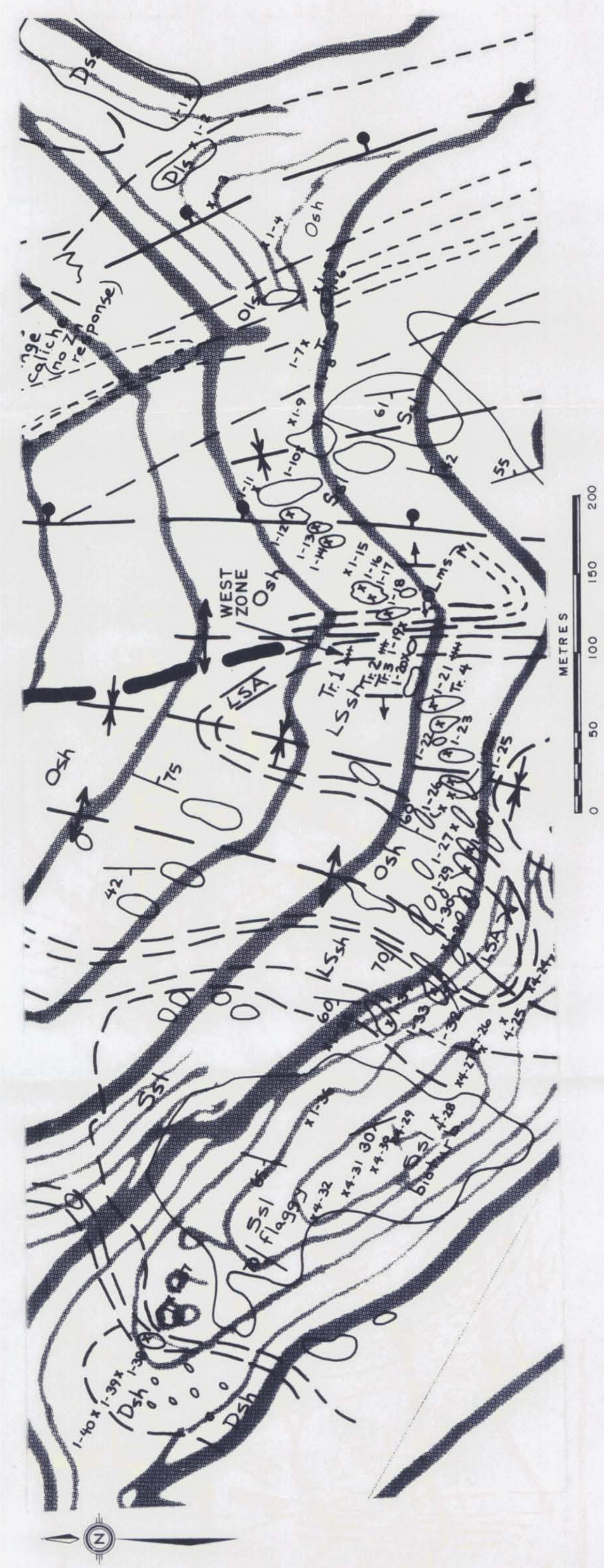
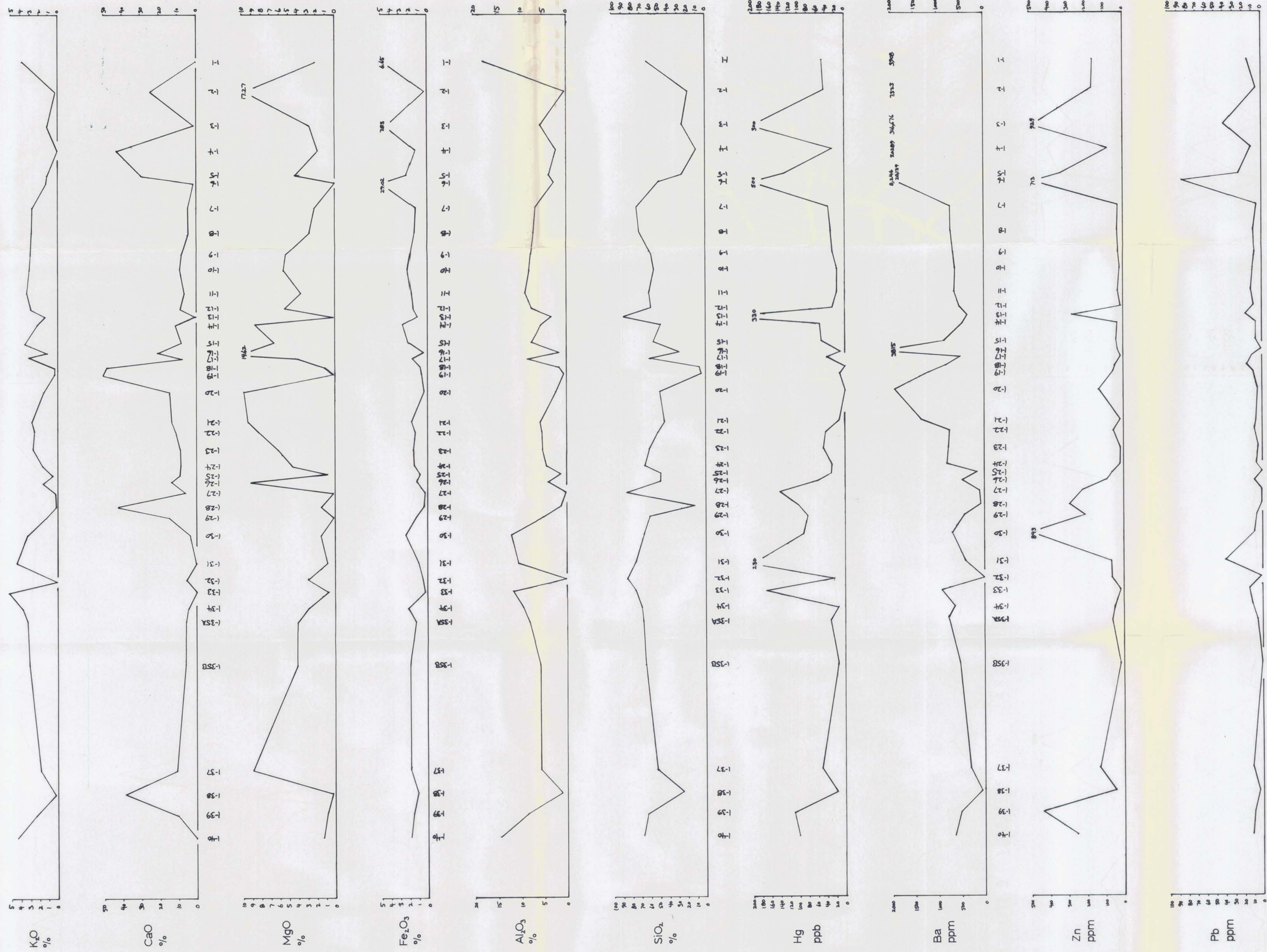
14,012

SCALE



David Rhodes

ERN PROPERTY		94 F
Drawn by: xrp	Traced by:	
Revised by: Date:	Revised by: Date:	CLAIM LOCATION MAP OMINECA M.D., B.C.
Scale: 1:500,000	Date: NOV 1980	
		Plate: 7

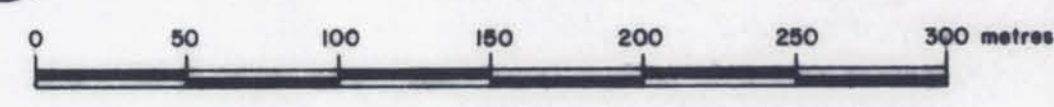
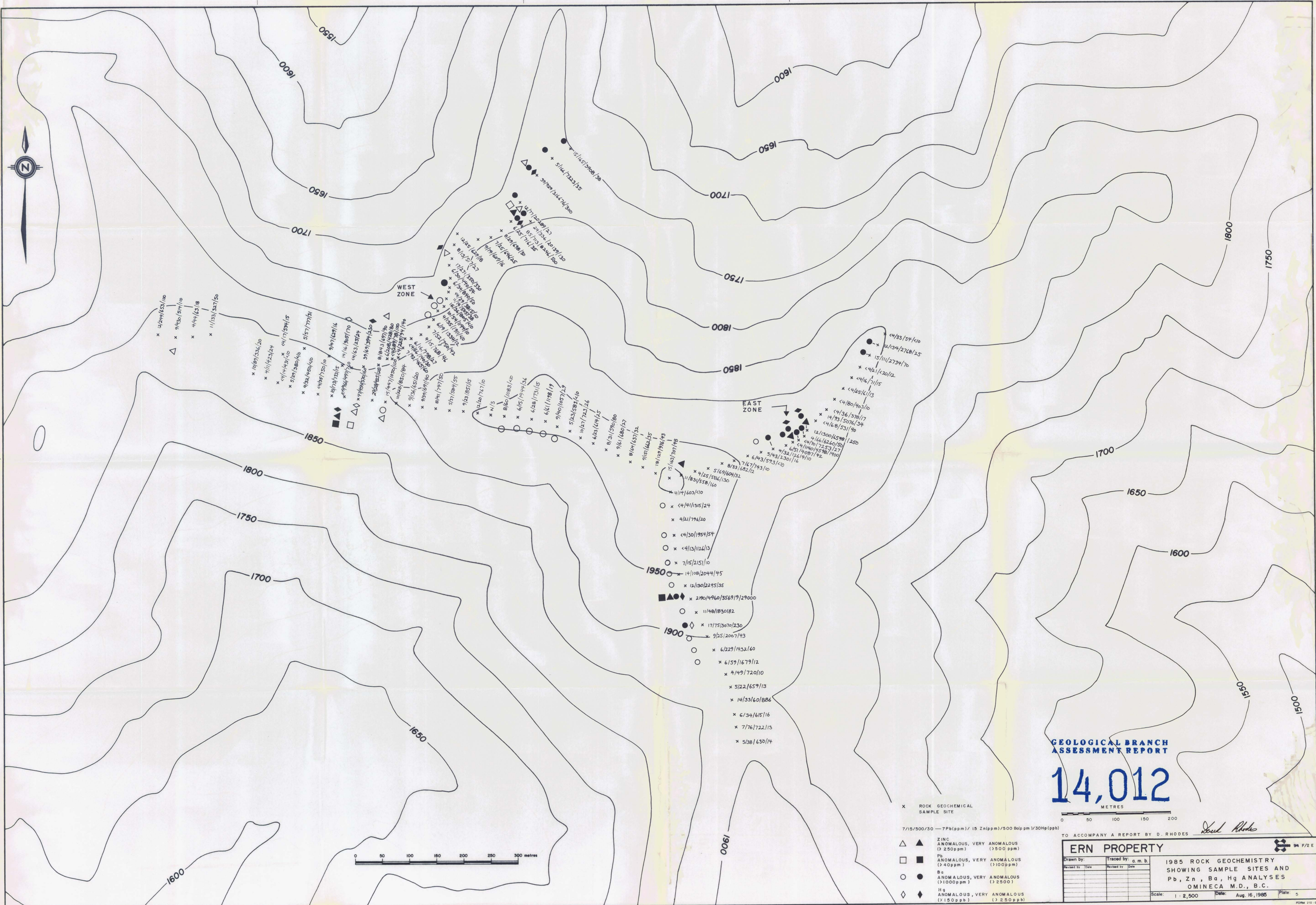


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,012

TO ACCOMPANY A REPORT BY D. RHODES *Daryl Rhodes*

ERN PROPERTY		NTS 94 F-2 E	
Drawn by: C.M.	Traced by:	MAJOR ELEMENT AND Pb, Zn, Ba, Hg. ROCK GEOCHEM PROFILES ALONG TRAVERSE ACROSS WEST ZONE OMINECA M.D., B.C.	
Revised by: _____	Date: _____	Date: SEPT 1985	Plate: 6
Scale: HORIZ 1:2500		VERT AS SHOWN	



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,012

0 50 100 150 200
METRES

X ROCK GEOCHEMICAL
SAMPLE SITE

7/15/500/30 — 7Pb(ppm) / 15 Zn(ppm) / 500 Ba(ppm) / 30Hg(ppb)

- ▲ ZINC ANOMALOUS, VERY ANOMALOUS (> 250 ppm)
- △ ANOMALOUS, VERY ANOMALOUS (> 500 ppm)
- Pb ANOMALOUS, VERY ANOMALOUS (> 40 ppm)
- ANOMALOUS, VERY ANOMALOUS (> 100 ppm)
- Ba ANOMALOUS, VERY ANOMALOUS (> 1000 ppm)
- ANOMALOUS, VERY ANOMALOUS (> 2500)
- ◆ Hg ANOMALOUS, VERY ANOMALOUS (> 150 ppb)
- ◇ ANOMALOUS, VERY ANOMALOUS (> 250 ppb)

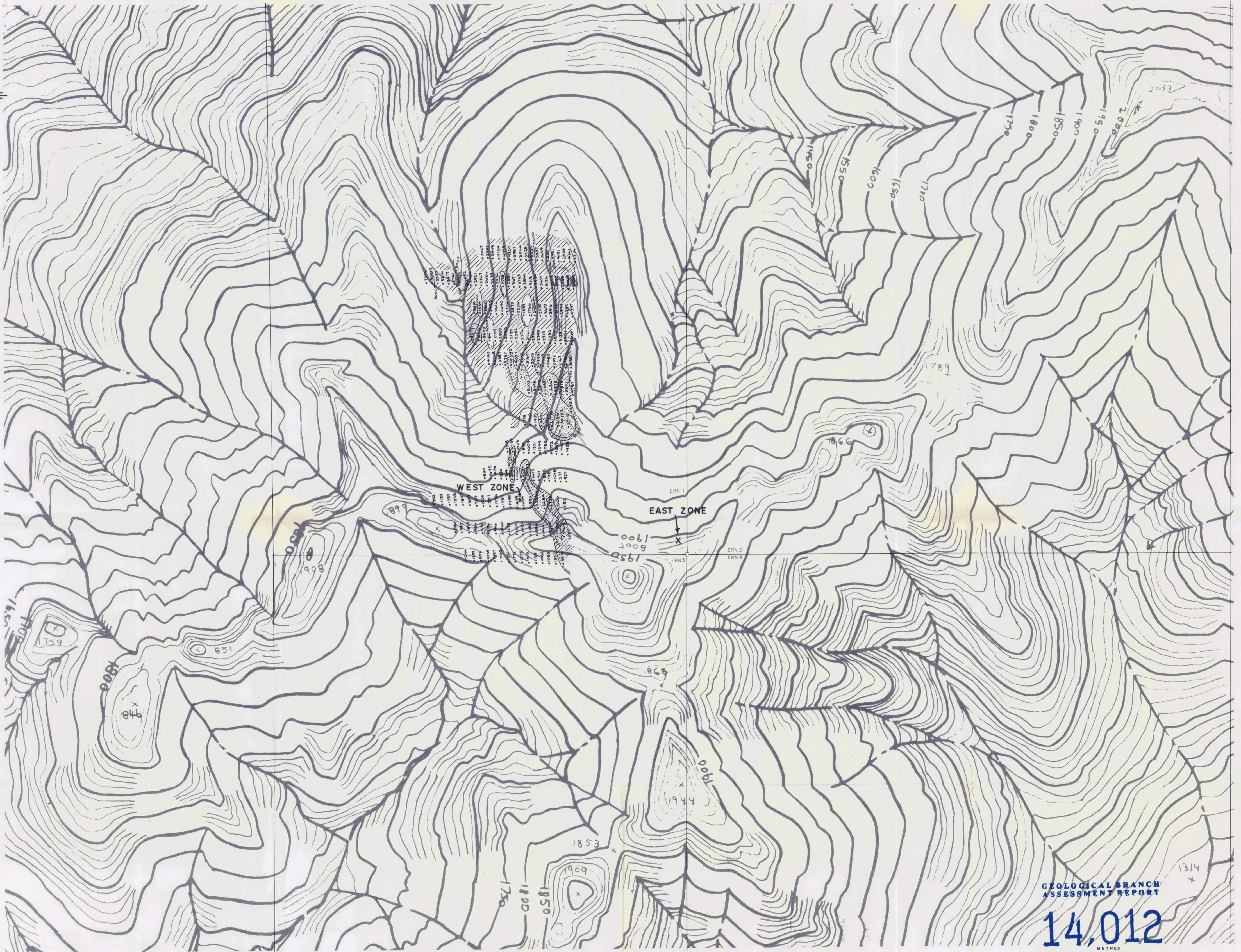
TO ACCOMPANY A REPORT BY D. RHODES

ERN PROPERTY

Drawn by:	Traced by: a.m.b.
Revised by:	Revised by:

1985 ROCK GEOCHEMISTRY
SHOWING SAMPLE SITES AND
Pb, Zn, Ba, Hg ANALYSES
OMINECA M.D., B.C.

Scale: 1 : 2,500 Date: Aug. 16, 1985 Plate: 5



WEST ZONE
EAST ZONE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,012
METRES

*2500 1985 SOIL SAMPLE SITE
AND BARIUM ANALYSIS IN P.P.M.

▨ 2000 P.P.M. BARIUM
▨ 5000 P.P.M. BARIUM

0 100 200 300 400 500
TO ACCOMPANY A REPORT BY D. RHODES

ERN PROPERTY		1985 BARIUM	
Drawn by:	Traced by:	SOIL GEOCHEMISTRY	
Revised by:	Revised by:	OMINECA M.D., B.C.	
		Scale: 1:5,000	Date: SEPT. 1985
			Plate: 3

Daryl Rhodes



