GRIZ

Griz 1+2 Aug/87

Griz 1+2, Griz 3 Oct/81.

J. M. Paulter

J.C. Stephen Explorations Ltd.

842413

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE

GRIZ 1 AND 2 MINERAL CLAIMS

RECORD NO'S 1411 and 1412
NTS 104K/10E

Latitude: 58°37'N Longitude: 132°35"W

ATLIN MINING DIVISION
B.C.

by

J.M. PAUTLER
SEPTEMBER 30, 1982

WORK DONE: AUGUST 8 to AUGUST 20, 1982
BY; J.C. STEPHEN EXPLORATIONS LTD.
FUNDED BY: NEWEX SYNDICATE

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LIST OF ILLUSTRATIONS

SUMMARY AND CONCLUSIONS

1. GRIZ 1 and 2 consist of 24 units and are located 120 kms south-east of Atlin, B.C.

2. The claim group was staked in 1981 to cover several small occurrences of galena-sphalerite mineralization with associated silver values.

3. A crew of 2 to 4 people spent 42 man days on the property between August 8 and August 21, 1982.

4. The claims are occupied by a large Tertiary feldspar porphyry body with various phases which intrudes Jurassic and Triassic sedimentary rocks.

5. The property was mapped at a scale of 1:8,000 on an air photo enlargement.

6. A soil grid was established in the southwest part of the property. No significant results were obtained.

7. A 1981 soil grid was extended in the northwest section of GRIZ 1 to define the limits of an anomaly. The anomaly was found to continue and is of substantial size.

8. It is recommended that blasting and trenching be conducted within the area of anomalous soil values.

9. A large part of GRIZ 2 claim overlaps earlier staking by Chevron Minerals and it is recommended this claim be dropped.

INTRODUCTION

The 20 unit GRIZ 1 claim and 4 unit GRIZ 2 claim were staked in August, 1981 on the basis of several small occurrences of gold, silver, lead and zinc mineralization.

Work conducted in 1981 consisted of detailed geological mapping of four trenches at a scale of 1:50, limited geological mapping of the property at 1:31,680 and prospecting on the northwest side of the property. A soil/talus grid was established in the area around the trenches and a highly anomalous area was indicated.

The 1982 program involved detailed mapping of the property at a scale of 1:8,000 on an air photo enlargement, additional hand trenching between the four 1981 trenches and the extension of the 1981 soil/talus grid to define the extent of the anomaly. Another soil grid was also established on the southeast part of the property. This grid consisted of 137 samples. Forty-seven soil samples were added to the 1981 grid. Reconnaissance sampling across the property totalled 4 talus 35 soil and 30 rock samples.

The topography of the claims consists of a plateau area at 4,500 - 5000 feet in the northwest section and a large ridge at 4,000 feet with several smaller ridges, in the southeast sections. A smaller northeast trending valley cuts through the GRIZ 2 claim.

Vegetation on the plateau area and on the highest part of the large ridge is sparse. It consists of grass, moss and some patches of thick balsam trees and shrubs. Most of the southeastern part of the large ridge and the smaller ridges have been burnt about 10 years ago and are covered by second growth. The sides of the main valley and the southern part of the ridge are covered by a thick balsam and spruce forest.

Drainage on the claim group is provided by numerous creeks which drain into the main valley and also the smaller valley. Both valleys contain swampy southwesterly flowing creeks. The drainage of the plateau area is generally poor with many swampy areas.

CLAIMS REGISTER

Claim	Record Number	Record Date
GRIZ Group One		
Griz 1	1411	Aug 14, 1981
Griz 2	1412	Aug 14, 1981

Griz 1, consisting of 20 units, has been grouped with the 4-unit Griz 2 claim for assessment purposes.

LOCATION AND ACCESS

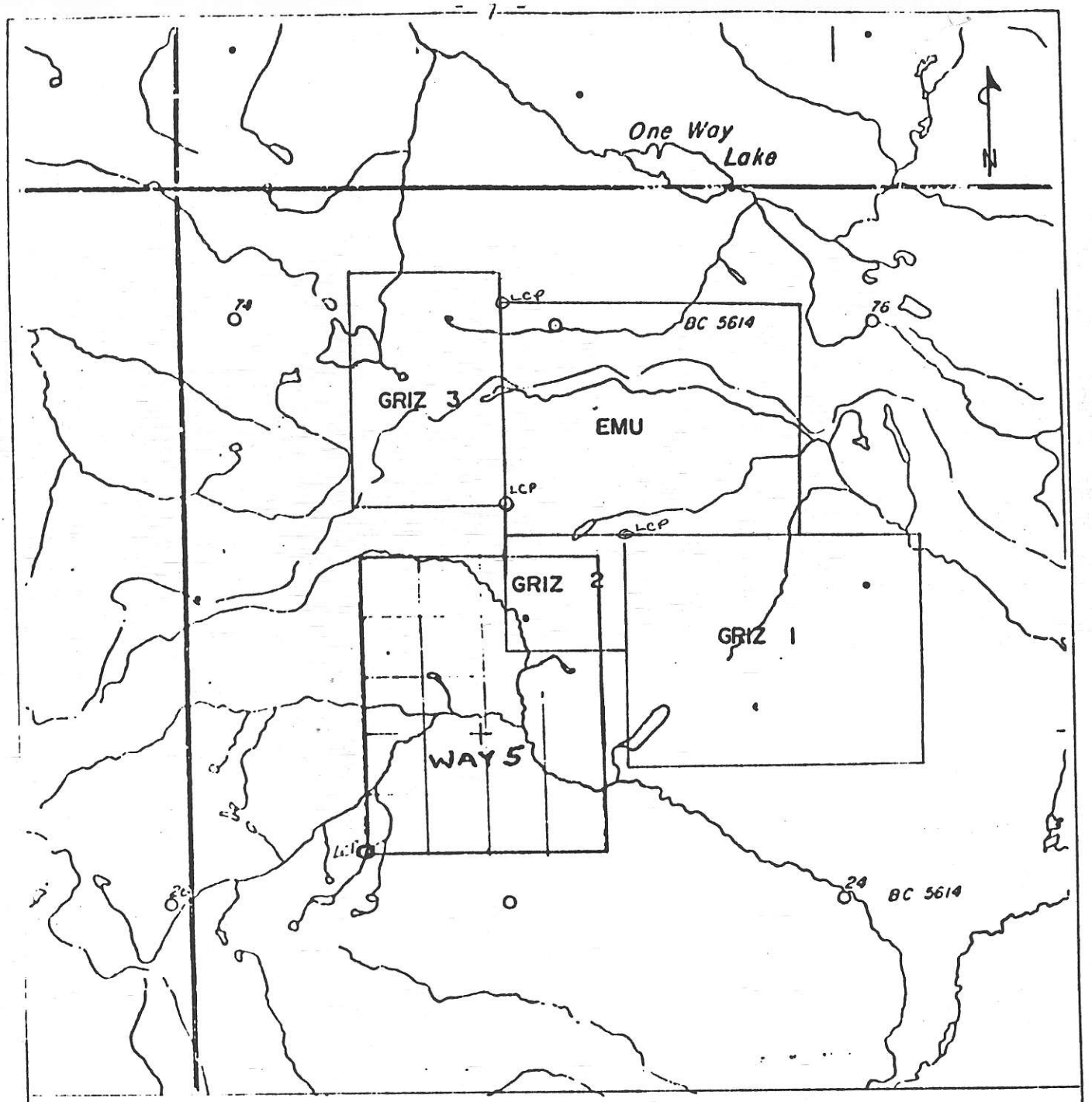
The Griz 1 and 2 claims, (map sheet 104K/10E), are located approximately 15 kms north of Trapper Lake, which is 132 kms southeast of Atlin, B.C. (Refer to Figure 1). Latitude and longitude are 58°37'N and 132°35'W.

Adjoining the claims on the north side is Chevron's 20 unit EMU claim. Much of the Griz 2 claim overlaps Chevron's 20 unit Way 5 claim. (Figure 2).

Access to the property is by helicopter from Atlin or Dease Lake.

FIGURE 1
NEWEX SYNDICATE
GRIZ CLAIMS
LOCATION MAP

1:250,000



CLAIMS SURVEYED by TOPOCHAIN and COMPASS.

J. C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

GRIZ CLAIMS

NTS 104K/10E

CLAIM MAP

0 05 10 kms.

SCALE 1:50,000

FIGURE 2

REGIONAL GEOLOGY

The regional geology has been mapped by the GSC at a scale of 1:250,000 and is published as Tulsequah-Juneau map sheet 104K.

GRIZ 1 and 2 are situated in the area of a Late Cretaceous to Early Tertiary quartz feldspar porphyry intrusion which is one of many that form a west-northwesterly trending belt from Trapper Lake to Yonakina Mountain. These intrusive bodies are in close spatial association with the Sloko volcanic rocks of the same age which are limited to a larger northwesterly trending belt along the eastern edge of the Coast Mountains. The Sloko volcanic rocks are of interest due to the number of gold occurrences found associated with them.

PROPERTY GEOLOGY

ROCK TYPES

Mapping at a scale of 1:8,000 was carried out on an air photo enlargement, (MapI). The rock types are discussed below.

Unit 3 - Feldspar Porphyry

Almost the entire GRIZ 1 and 2 properties consist of feldspar porphyry of which various phases are present.

Unit 3a - Unaltered Effusive Feldspar Porphyry

This phase of the unaltered porphyry is aphanitic to fine-grained, greenish-grey to pinkish in colour and contains white to pink feldspar phenocrysts. Biotite and hornblende phenocrysts can be present. This phase appears to be an effusive variety of the porphyry.

Unit 3B - Altered Silicified Porphyry

Unit 3a contains zones on the outcrop scale of altered, silicified porphyry with remnant feldspar phenocrysts evident. Minor pyrite is common and very minor disseminated galena and sphalerite have been observed in this rock type.

Unit 3c - Very Silicified Porphyry

This unit is very similar to unit 3b except it is more extensively silicified. Feldspar phenocrysts are difficult to discern. Quartz stringers a few millimeters in size are common and a few larger quartz veins up to 20 centimeters wide have been

observed. Pyrite is common and is sometines abundant in these silicified areas. Minor galena and sphalerite are rarely present. A pattern to the silicification is not evident.

Unit 3d - Quartz Breccia

This unit is actually a siliceous to cherty rock with rusty feldspar porphyry fragments. Manganese staining is common in this rock type when disseminated galena, sphalerite and pyrite are present.

Unit 3e - Hypabyssal Feldspar Porphyry

This phase of the porphyry is fine grained, green in colour and contains few feldspar phenocrysts. Some biotite phenocrysts are present. No silicified equivalents of this unit were observed. The hypabyssal phase is generally restricted to the northwest part of GRIZ 1 but a small amount was also found on the adjoining GRIZ 2 claim.

Unit 2 - Takwahoni Black Shale

Two outcrops of fine grained black shale of the Takwahoni Formation were observed in the centre of the GRIZ 1 claim. The black shale occurred below the feldspar porphyry.

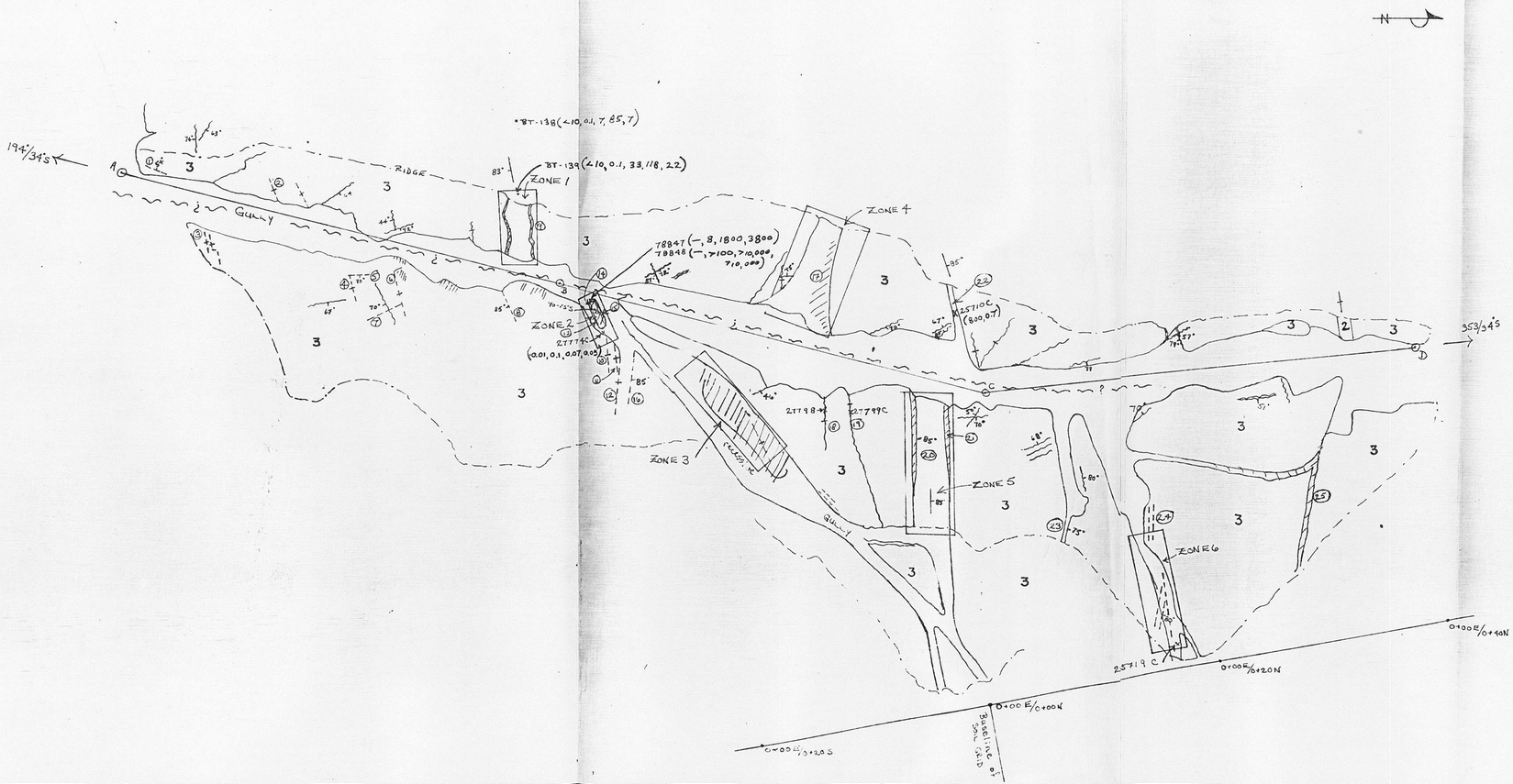
Unit 1 - Stuhini Group Andesite

This unit was not observed on GRIZ 1 or 2.

MINERALIZATION

Several small occurrences of galena and sphalerite mineralization have been found on the GRIZ 1 property. In addition to these found in 1981, a small zone with very disseminated galena and sphalerite was located just east of the GRIZ 1, NW soil grid.

Further hand trenching on the four trenches discovered in 1981 was not very promising. Trenching proved to be difficult due to the abundance of highly altered and weathered rock in the vicinity. Some additional galena-sphalerite mineralization was noted along the extension of Trenches 2 and 3.



N

LEGEND

3 QUARTZ FELDSPAR PORPHYRY fine to medium grained, greenish color, white feldspar and some quartz phenocrysts, light to pinkish weathering.

2 DIABASE fine grained, dark green dyke, dark weather.

SYMBOLS

- MN STAINING
- SMALL VEINS showing strike and dip
- SMALL FRACTURES showing strike and dip
- FAULT
- STATION
- RIDGE
- *25710 SAMPLE LOCATION
- (210, 0.1, 33, 118, 22) (ppb Au, ppm Ag, ppm Pb, Zn, As)
- (0.01, 0.1, 0.07, 0.05) (oz/ton Au, Ag, % Pb, Zn)
- (17) VEINS

0 1 2 3 4 5 10
METRES

inches 0 1
centimetres 0 1 2

This reference scale bar has been added to the original image. It was scale at the same rate as the image, therefore it can be used as a reference for the original size.

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NEWEX

GRIZ 3 SHOWING

GEOLOGY AND GEOCHEMISTRY
PLAN SECTION
NTS: 104 K/10 E

SCALE 1 : 300 AUG, 1981

FIGURE 4

GEOCHEMISTRY

SOIL AND TALUS

A topochain and compass soil grid was established on the southeast section of GRIZ 1. Refer to Map I, II or III for location. A few small galena-sphalerite occurrences had been found in this area as well as one low anomalous silver value. It was hoped that the grid would define any anomaly that may exist. Samples were taken at 20 metres apart. A total of 137 samples were collected and analyzed for Au, As, Ag, Pb and Zn. The soil grid and results are shown on Map IV.

The 1981 soil/talus grid on the northwest part of GRIZ 1 (Map I, II or III), was extended. An additional 47 samples were added to the grid to determine the extent of a Pb-Zn anomaly found in 1981. All samples were geochemically analyzed for Au, Ag, Pb and Zn. The 1981 and 1982 results are shown on Map V.

Reconnaissance soil and talus samples were also collected throughout the claims.

METHOD

The soil samples were collected from the 'B' horizon at depths of 2 to 30 cm using a grubhoe or rock hammer. Occasionally the 'A' or 'C' horizon had to be used. Samples were placed placed in water-proof Kraft paper bags and sent to base camp where they were dried and sifted to -35 mesh. The samples were then sent to Chemex Labs, North Vancouver for analysis.

In the lab the soils were first pulverized to -100 mesh. The gold content in ppb was determined by aqua-regia digestion and chemical extraction followed by atomic absorption. Silver and arsenic in ppm were determined by perchloric-nitric acid degestion and atomic absorption analysis.

RESULTS

The GRIZ 1, SE grid did not return promising results The contour map prepared from the results, (Map IV), shows only isolated high Pb-Zn values. Two Pb values of 213 and 220 ppm were the highest obtained. There were only four isolated Zn values above 250 ppm Zn ranging up to 480 ppm Sn.

The extention of the GRIZ 1, NW grid was more promising. (Map V). The limits of the anomaly have still not been entirely defined. An area approximately 120 m wide by 300 m long falls above the coincident 100 ppm Pb and 200 ppm Zn contours. The trenches dug in 1981 fall into very narrow similarly anomalous zones bordering the main anomaly. The lower part of the anomalous zone may be a result of soil slippage from the upper part of the anomaly. Values range up to 800 ppm Pb and 1100 ppm Zn.

Interesting results were not obtained from the reconnaissance soil and talus samples. Results are plotted on Maps II and III.

ROCK SAMPLING

Due to the fifficulty of hand trenching along the extent of the 1981 trenches, mapping and detailed sampling could not be undertaken. Two samples along the western extent of Trench 2 were taken where mineralization was visible, and 3 samples were collected

along the extent of Trench 3.

One of the samples west of Trench 2 ran 3.08 ounces per ton Ag, 3.08% Pb and 2.60% Zn. The northern extent of Trench 3 contained a value which ran 0.60 ounces per ton Ag, 0.44% Pb and 0.59% Zn which is slightly better than the 1981 values for the trench.

The reconnaissance rock samples were not interesting except for a 16.5 ppm Ag value to the north of the GRIZ 1, NW soil grid. The rock was silicified feldspar porphyry with pyritiferous surfaces. All results are plotted on Maps II and III.

CONCLUSIONS AND RECOMMENDATIONS

Detailed geological mapping of the property, additional hand trenching between and around 1981 trenches, the establishment of a soil grid on GRIZ 1, SE and the extension of the GRIZ 1, NW soil/talus grid were all completed in 1982. A total of $6,677.00 was spent on this program.

A significant Pb-Zn soil anomaly on the GRIZ 1, NW grid was further outlined in the 1982 season. Additional anomalous results were obtained from rock samples along the extent of the 1981 trenches.

Future work should concentrate on the main soil anomaly. The outcrop appears to be close to the surface but is too weathered for hand trenching. Therefore, blasting is recommended in this area in order to find the source of the anomaly.

The southeast part of the GRIZ 1 claim and the GRIZ 2 claim are relatively uninteresting areas. It is recommended that the 4 unit GRIZ 2 claim be dropped on this basis and because Chevron's WAY 5 claim overlaps most of the claim.

Respectfully submitted,
J.C. Stephen Explorations Ltd.

J.M. Pautler

JMP/ms

STATEMENT OF EXPENDITURES

WAGES AND BENEFITS

J.M. Pautler	Geologist	Aug. 8-17,1982	1950.+15%	$723.	
S. Kay	Assistant	Aug. 8-17	1750.+15%	714.	
N. Silins	Assistant	Aug. 10-19	1400.+15%	519.	
A. Candy	Assistant	Aug. 10-20	1200.+15%	490.	
					$2426.00

FOOD AND CAMP SUPPLIES

42 man days @ $14.	$ 588.00

GEOCHEMISTRY

4 talus samples for Au Ag Pb Zn @ $11.65	$ 46.	
45 soil samples for Au Ag Pb Zn @ $8.40	378.	
145 soil samples for Au Ag Pb Zn As @ $11.65	1689.	
30 rock samples for Au Ag As @ $12.65	380.	
		$2493.00

TRANSPORTATION Keystone Helicopters

Ticket No.		Hours	
3679		0.9	
3688		0.9	
3697		0.5	
	Total	2.3 hours @ $500.	$1150.00
		TOTAL EXPENDITURE	$6677.00

A P P E N D I X I

SAMPLE DATA SHEETS

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – ~~STREAM SILTS~~ SOIL SAMPLES

SYNDICATE

SAMPLER Norman Silins, Alison Candy PROJECT Newex - GRIZ 1

NTS 104K/10E

~~CREEK~~ Division of G Grid

DATE

AIR PHOTO NO. BC 5614 075

SAMPLE NO. 82-NXG-1-B	~~VOLUME~~ HORIZ Width	~~VOLUME~~ Depth (cms)	SLOPE ~~VELOCITY~~	Ph	VEG ~~TYPE OF SAMPLE~~	COLOUR	grain size TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Pb	Zn	Ag	Au
2S/1+20W	B	10	steep	-	grass balsam	lt br.	silty sand	mod	feldspar porphyry	just east of Trench 2.	10	182	01	<10
2S/1+40W	B	14	steep	-	grass	dk br	loamy	high	"		11	133	01	<10
2S/1+60W	B	10	"	-	"	br.	fine loamy	mod	"		16	126	01	<10
2S/1+80W	-	-	-	-	-	-	-	-	"	no sample taken				
2S/2+00W	B	4	steep	-	grass	dk br	loamy	high	"	taken 20m S of line	13	165	01	<10
-	-	-	-	-	-	-	-	-						
2S/2+20E	A,B	5	mod	-	mosses fw	med br	silty sand	high	"		19	135	0.2	<10
2S/2+40E	A,B	8	flat	-	moss	dk br.	"	"	"		12	100	0.2	<10
2S/2+60E	A,B	5	flat	-	"	br	"	med	"		17	115	0.1	<10
2S/2+80E	B	2	flat	-	"	br	pebb sand	med	"		13	100	0.1	<10
2S/3+00E	A	2	gentle	-	moss	med br.	clay silt	med			13	113	01	<10
2S/3+20E	A	8	gentle	-	moss	br	silty sand	med			16	62	0.2	<10
2S/3+40E	A,B	12	gentle	-	moss grass	br.	"	high			9	87	0.3	<10
2S/3+60E	B	8	"	-	balsam grass	med br.	"	med			10	108	0.2	<10
2S/3+80E	B	6	"	-	balsam grass	grey brown	silty clay	med			7	88	02	<10
				-										
				-										
				-										
				-										
				-										

(13)

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – ~~STREAM SILTS~~ SOIL SAMPLES

SYNDICATE

SAMPLER Norman Silins, Alison Candy PROJECT NEWEX - GRIZ 1

NTS 104K/10E

CREEK

DATE

AIR PHOTO NO. BC 5614 075

SAMPLE NO.: 82-NXG-B	~~VOLUME~~ HORIZ Width	~~VOLUME~~ Depth (in)	SLOPE ~~VELOCITY~~	Ph	VEG. ~~TYPE OF SAMPLE~~	COLOUR	grain size TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Pb	Zn	Ag	Au
3S/0+20W	B.C	3	steep	-	none	gray br.	fine silty	low		talus slope	71	170	0.1	<10
3S/0+40W		5	steep	-	grass	dk br.	sandy	med			64	335	0.3	<10
3S/0+60W		10	steep	-	fir	br.	fine silty	low			43	160	0.1	<10
–	–	–	–	–	–	–	–	–	–					
3S/2+20E		8	steep	-	grass	gray brn.	coarse	low			193	488	0.2	<10
3S/2+40E		8	"	-	grass	br.	pebbly fine				47	225	0.2	<10
3S/2+60E		10	"	-	grass	brown gray	sandy coarse	low			98	253	0.4	<10
3S/2+80E		3	"	-	grass	tan	fine sandy	low			12	450	0.3	<10
3S/3+00E		5	"	-	"	lt br.	fine silty	med			61	200	0.7	<10
3S/3+20E		3	mod	-	balsam	tan	fine	low	qfp		25	133	0.2	<10
3S/3+40E		5	steep	-	grass	br	med fine	med-high			119	263	0.3	<10
3S/3+60E		5	"	-	"	lt br.	sandy	low			20	150	0.2	<10
3S/3+80E		2	"	-	grass bushes	tan	fine	low			36	170	0.1	<10
				-										
				-										
				-										
				-										
				-										
				-										
				-										

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – STREAM SILTS

SYNDICATE

SAMPLER Norman Silins, Alison Candy PROJECT NEWEX - GRIZ 1

NTS 104 K/10E

CREEK

DATE

AIR PHOTO NO. BC 5614 075

SAMPLE NO. 82-NXG-B	~~VOLUME~~ Width HORZ	~~VOLUME~~ Depth (in)	SLOPE ~~VELOCITY~~	Ph	VEG ~~TYPE OF SAMPLE~~	COLOUR	grain SIZE TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Pb	Zn	Ag	Au
4S/0+40W		6	gentle	-	fir	br	fine	med			16	185	0.1	<10
4S/0+60W	-	-	-	-	-	-	-	-	-	no sample taken	-			
4S/0+80W	-	-	-	-	-	-	-	-	-	no sample taken	-			
4S/1+00W		6	mod.	-	fir	br.	fine	med			11	102	0.1	<10
4S/1+20W		10	gentle	-	"	br.	coarse pebb.	high			20	95	0.1	<10
4S/1+40W		5	"	-	"	lt br.	sandy	med-high			37	93	0.1	<10
4S/1+60W	-	-	-	-	-	-	-	-	-	no sample taken	-			
4S/1+80W		6	mod	-	fir	br	silty	high			11	93	0.1	<10
4S/2+00W		10	mod	-	fir	black	silty	high			10	88	0.1	<10
-	-	-	-	-	-	-	-	-	-					
4S/0+20E	-	8	gentle		moss pines	lt br	fine sandy	high		taken 20m S of line; talus				
4S/0+40E	-	-	-	-	-	-	-	-	-	no sample taken	-	-	-	
4S/0+60E	B	7	mod	-	fir	med br.	fine sandy	med			11	123	0.1	<10
4S/0+80E	B	8	gentle	-	grass fir	med br.	sandy silty	low			10	102	0.1	<10
4S/1+00E		5	steep	-	grass deadfall	gray br	fine silty	low			9	108	0.1	<10
4S/1+20E		8	steep	-	grass	lt br.	fine	med.			15	145	0.2	<10
4S/1+40E		4	"	-	"	tan	fine	low			161	215	0.3	<10
4S/1+60E		3	steep	-	"	tan	fine	low			116	383	0.4	<10
4S/1+80E		1	"	-	"	tan	fine pebb	"			72	290	0.1	<10
4S/2+00E		2	"	-	"	"	fine	"			73	320	0.2	<10

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – ~~STREAM SILTS~~ SOIL SAMPLES

SYNDICATE

NTS 104K/10E

SAMPLER Norman Silins, Alison Candy PROJECT NEWEX – GRIZ 1

CREEK

DATE

AIR PHOTO NO. BC 5614 075

SAMPLE NO. 82-NXG-B	~~VOLUME~~ ~~Width~~ HORIZ	~~VOLUME~~ Depth (in)	SLOPE ~~VELOCITY~~	Ph	VEG. ~~TYPE OF SAMPLE~~	COLOUR	grain size TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Pb	Zn	Ag	Au
4S/2+20E		3	steep	-	grass	tan	fine pebb	low			310	960	1.6	<10
4S/2+40E		6	"	-	moss grass	med br.	fine	"			48	263	0.5	<10
4S/2+60E		6	"	-	grass	"	fine pebb	med			198	570	0.5	<10
4S/2+80E		4	"	-	grass fir	tan	"	low			107	400	0.5	20
4S/3+00E		5	"	-	fir	br	fine coarse	low			38	188	0.2	<10
4S/3+20E		5	mod	-	fir	lt/med br.	fine sandy	low			13	115	0.1	<10
4S/3+40E		5	mod	-	fir	med br.	fine	"						

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GEOCHEMICAL DATA SHEET – SOIL SAMPLING

SYNDICATE

SAMPLER A. Cundy / N. Sikma

PROJECT Nexew - Brig 1

DATE

NTS

LINE 15+00N ~~and~~ ~~12+00E~~

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Pb	Zn	Ag	As	Au
82 NXG	15+00N 7E	6"		med br	fine	low		no	gr.	by edge of lake	5	210	02	25	20
	9E	4"		br.	fine	med		mod	dk.		51	148	03	79	20
	9E	8"		red/br	.	low		sl.	gr/fl.		7	87	01	12	20
	10E	6"		dk. br	silty fine	med		mod	fl/gr.		6	163	01	9	<10
	11E	10"		br.	fine rocks/roots	v. high		mod.	gr/fl.		53	410	01	32	<10
	12E	7"		red/br	fine	high		mod	deadfall		7	90	01	10	<10
					~~fine~~										
~~82 NXE~~	12+00E 14+8N	2"		tan	fine sandy	low		~~steep~~	fl/gr.						
	14+6ON			med br.	~~fine~~	med		sl. steep	gr.						
	14+40N			med br.	fine	med		steep	gr.						
	~~14+20N~~														
	~~14+00N~~														
	~~13 14+80N~~														

6

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

SYNDICATE

SAMPLER N. Silins / A. Candy

DATE

PROJECT Newex Syn. Griz claim I

NTS

LINE 7E

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Pb	Zn	Ag	As	Au
82-RMG-B	7E 17+00N	8"		br	fine	med			mossy		17	82	0.2	19	10
	7E 16+80N	10"		dark black	pebbley sand	high		mod.	pine grove		21	68	0.5	15	20
	7E 16+60N	8"	A	dark black	pebbley sand	high		slight			17	75	0.1	16	<10
	7E 16+40N	6"	B	dark brown	pebbles stones	high		gentle	pine moss	Poor profile	58	118	0.1	14	<10
	7E 16+20N	10'		br	fine	med		"	"		15	81	0.4	17	<10
	7E 16+00N	6"	B	brown	–	high		gentle	no veg	Poor development	22	85	0.5	15	10
	7E 15+80N	5'		br.	"	med		"			17	87	0.3	16	20
	7E 15+60N	2"-3"	–	light brown	–	low		mod	none	frost boil	18	120	0.1	19	10
	7E 15+40N	5'		br	pebbly	low		mod.	moss tree		21	123	0.7	19	10
	7E 15+20N	10"	-	red brown	–	mod		mod	pine moss		11	100	0.2	16	10
	7E 15+00										5	210	0.2	25	20
	7E 14+80E	6"		dk br	fine	low		gentle	pine mosses		12	70	0.2	14	20
	7E 14+60E	6"	B	lt brown	–	mod		gentle	pine moss		9	80	0.5	11	<10
	7E 14+40E	5"		br.	fine	low		"	pine moss		10	90	0.1	11	<10
	7E 14+20E	8"	B	brown	–	high		mod.	pine + moss + grass	good profile	11	155	0.2	14	10
	7E 14+00E	3"		L. br	–	%		mod	"		23	203	0.5	11	10
	7E 13+80N	6"-10"	B	red. brown	–	high		mod	moss + grass		46	130	0.1	20	<10
	7E 13+60N	8"	B	dk br.		med		"	"		37	217	0.2	16	<10
	7E 13+40N	8"-10"	B	red. brown	–	low		mod.	grass flower	good development	15	102	0.1	12	10
	7E 13+20N	7"	B	med br.	–	high		"	"	no sample at 7E 13+00N	21	105	0.1	24	20

J.C. ST[illegible]PHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA S[illegible]ET – SOIL SAMPLING

SAMPLER N. C[illegible]lins/A. Candy

DATE

PROJECT N[illegible]wex Syn Griz Claims I

NTS

LINE 8E

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	Colour	Part Size	% ORG.	Ph	SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	Pb	Zn	Ag	As	Au
8E Line 8	8E 13+00N	2"		L. brown	fine	med		V. steep	—	no profile	72	200	0.3	81	<10
	8E 13+20N	10"		gr/br	fine	med		V. steep	grasses		8	172	0.4	10	<10
	8E 13+40N	2"-3"		L. br	fine peb	low		V. steep	—	no profile.	220	310	0.4	22	10
	8E 13+60	4"		br	peb	low		"	—		33	138	0.2	11	10
	8E 13+80	2"-3"		red. brown		mod.		steep	grasses		22	148	0.1	14	<10
	8E 14+00	4"		br	peb	low		(V) "	grasses		–	–	–	–	–
	8E 14+20	2"-3"		brown	silty sand	Low		mod	mosses, ~~gra~~ grasses	poor development	15	102	0.1	12	10
•	8E 14+40	6"		br	fine	med.		0	mosses		34	113	0.5	15	20
•	8E 14+60	3"	B	red. brown	sandy	mod		mod	mosses		8	83	0.1	14	20
	8E 14+80	8"	B	red/br	fine	med		"	"		18	92	0.2	16	10
•	8E 15+00										51	148	0.3	79	20
	8E 15+20	6"	B	L. Brown		mod		gentle	grass mosses		8	88	0.2	16	10
	8E 15+40	4"		L. Br		low		mod	"		10	110	0.2	14	10
	8E 15+60	8"	—	brown		Low		steep	grasses moss	poor profile rock sample #28367R	25	92	0.5	14	<10
	8E 15+80	9"	"	deep br		med		mod	"	flag of previous year found here #283688	13	76	0.1	12	10
	8E 16+00	12"	B	red brown	silty sand	Low		gentle	pine grasses		29	125	0.4	11	<10
•	8E 16+20	10"	"	br	fine	low		slight	"		36	90	0.3	9	20
•	8E 16+40	8"	B	brown	silty sand	mod		gentle	pine moss		16	68	0.4	12	20
•	8E 16+60	12"	"	deep br	pebbly	low		slight	"		8	97	0.2	16	20
	8E 16+80	10"	B	medium brown	sandy	high		gentle	pine mosse	good profile					

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

SAMPLER A. Candy / N. Silins

DATE

PROJECT Newex Syn Griz I claim

NTS

LINE 8E

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Pb	Zn	Ag	As	
82NxG-R	8E 17+00N	10"	B	dk br	fine	low		sl. slight			13	75	0.2	12	<1
	8E 17+20N	3"	B	medium brown	silty sand	high		gentle	fine mosses	good profile Dead fall	82	207	0.1	32	<1
	8E 17+40N	4"		L. br	fine	%		mod-st	l. grass		30	93	0.1	15	<1
	8E 17+60N	3"	B	light brown	sandy silt	high		steep		poor profile at outcrop	115	184	0.1	33	<1
	8E 17+80N	4"	"	tan	fine	low		steep			213	190	0.6	19	<1
	8E 18+00N	8"	B	dark brown	pebbly sand	mod.		mod	mosses grasses		11	61	0.1	11	<1
	8E 18+20N	10"		br	fine	high		sl. slight	fine / mosses		13	66	0.3	12	<1
	8E 18+40N	10"	B	brown	sandy silt	low		steep	none	good profile	9	64	0.1	11	<1
	8E 18+60N	12"		dk. br.	coarse pebbly	high		steep	mosses		72	152	0.3	12	<1
	8E 18+80N	8"	B	brown	sandy	high		steep	grasses moss	roots Dentiful, in valley	20	100	0.1	10	<1
	8E 19+00N	5"		tan		high		slight	"		10	75	0.1	9	20
	8E 19+20N	9"	A	brown	—	high		mod	flowers grasses	Poor sample D.F.					
	8E 19+40N	8"		red/br	fine	high		no			6	73	0.1	14	10
	8E 19+60N	6"	B	light brown	—	low		—	flower grasses	D.F.	8	70	0.1	14	<1
	8E 19+80N	5"		L. br	pebbly	med		mod.	"		7	76	0.1	12	<1
	8E 20+00N			red brown	sandy	low		gentle	flower	good profile	7	80	0.1	12	<1

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J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

NTS 104K/10E

SAMPLER Jean Pautler, Susan Kay PROJECT Newex-Griz I

LINE

DATE AIR PHOTO NO. BC 5614 025

SAMPLE NO. 82-NXG-B	LOCATION	Depth (cm)	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Pb	Zn	Ag	As	A
9E, 17+00N		10	B	or. br.	fine sandy	few		flat	spruce pine moss		9	84	0.1	14	1C
16+80N		7	"	med. br.	fine silty sand	mod		"	"		7	147	0.1	14	<1
16+60N		10	"	dk br.	silty sand	lots		"	moss grass		7	74	0.1	14	<1C
16+40N		7	"	med br.	fine silty sand	mod		"	spruce, pine, moss		8	93	0.2	12	1C
16+20N		10	"	"	"	"		"	meadow		8	86	0.1	12	2C
16+00N		15	"	"	"	"		"	"		7	85	0.2	12	<1C
15+80N		7	"	"	"	"		gentle	"		7	90	0.2	11	1C
15+60N	}										—	—	—	—	
15+40N	}	no sample									—	—	—	—	
15+20N	}										—	—	—	—	

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J.C. ST. PHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

NTS 104K/10E

SAMPLER Jean Pautler, Susan Kay PROJECT Newex - Griz I

LINE

DATE

AIR PHOTO NO. BC 5614 025

SAMPLE NO. 82-NXG-B	LOCATION	Depth (cm)	Horiz	DESCRIPTION Colour	Part Size	% ORG.	Ph	SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Pb	Zn	Ag	As	Au
10E, 19+20N		15	B	orange brown	fine sandy	mod		flat	meadow		5	80	0.1	12	<10
19+40N		20	"	med brown	fine silty sand	lots		"	"		5	90	0.3	9	40
19+60N		7	"	lt or. brown	fine sandy	mod		"	"		6	84	0.1	12	10
19+80N		10	"	orange brown	fine silty sand	"		"	"		6	83	0.1	10	10
20+00N		15	"	lt br.	med silty sand	lots		"	"	south edge of 3rd valley	7	55	0.1	6	<10
9E, 20+00N		7	"	or. br.	fine silty sand	mod		"	"		21	103	0.1	85	10
19+80N		20	"	med br.	fine sand	mod		"	"		8	71	0.1	12	<10
19+60N		15	"	"	"	"		"	"		8	70	0.1	10	10
19+40N		20	"	"	fine silty sand	"		gentle	"		10	89	0.1	15	<10
19+20N		10	"	"	"	lots		flat	"		10	71	0.1	12	10
19+00N		10	"	"	pebbly sand	mod		"	"	qfp, py OTC	10	75	0.1	11	20
18+80N		7	"	or. br	fine silt sand	"		"	"	top of ridge before first valley	11	87	0.1	16	<10
18+60N		15	"	med br	"	lots		gentle	spruce pine moss	in first valley	6	83	0.1	12	10
18+40N		NO		SAMPLE											
18+20N		15	B	med br	fine sandy silt	lots		mod	spruce pine, moss		8	51	0.1	10	<10
18+00N		20	"	dk br.	"	mod		flat	"	edge of forest/burnout to E	6	60	0.1	10	<10
17+80N		10	"	med br.	med sandy silt	lots		gentle	"	bottom of slope of rusty ridge	23	75	0.2	11	<10
17+60N				NO	SAMPLE										
17+40N		15	B	med br.	fine clayey silt	lots		mod	spruce pine moss		22	60	0.1	12	<10
17+20N		5	"	"	fine sand	mod		mod	scrub spruce, pine	bare patch, above trees	17	78	0.2	14	<10

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

SYNDICATE

NTS

SAMPLER R. Cendy / N. Silins

PROJECT ~~Nez~~ Newex / Bug

LINE 9E and 10E

DATE

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	Colour	Part Size	% ORG.	Ph	SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	Pb	Zn	Ag	As	A
82 NXB -B	9E 13+00N		B	too organic to take sample							-	-	-	-	-
	13+20N	4"	"	red/br		low		steep	none	deadfall	3	81	01	7	<1
	13+40N	3"	"	dk. br	fine	med.		v. steep	bb/fl		19	142	01	11	2
	13+60N	6"	"	red/br.	silty sand	mod		steep	gr/fl.		16	120	01	7	<1
	13+80N	1"	B	lgt br	fine	low		v. steep	rocky/grasses		32	162	01	17	2
	14+00N		"	too organic to take sample							9	110	04	12	10
	14+20N		"			"					-	-	-	-	
	14+40N		"			"					-	-	-	-	
	14+60N		"			"					-	-	-	-	
	14+80N	5"	B	black	me	high		mo	fino		7	88	02	10	1
	10E 14+80N	6"		br.	fine	low		steep			5	98	0.1	10	<1
	14+60N	10"	"	red br.	fine	med		mod	gr/fl.		6	116	01	11	1
	14+40N	4	"	br	fine	me		mod	none		5	97	0.1	11	<1
	14+20N	10"	"	red br.	[illegible]	mod		slight	gr/fl.		6	116	0.1	11	2
	14+00N	10"	"	dk br	fine	med ~~high~~		steep	gr/fl.	deadfall	6	34	01	11	<1
	13+80N	10"	"	dk br		high		steep	gr/fl		31	113	01	10	<1
	13+60N	3"	"	dk br.	fine	low		v. steep	rocky gr.		28	118	02	16	<1
	13+40N	6½"(?)	"	dk br.		high		steep	gr/fl		17	132	01	9	<1
	13+20N	4"		red/br.		med		mod.	gr/fl		20	209	0.2	9	<1
	~~13+00N~~			~~brown~~											

J.C. S. PHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA S. ET – SOIL SAMPLING

SAMPLER Jean Pautler, Susan Kay

DATE

PROJECT Newex - Griz I

NTS 104K/10E

LINE

AIR PHOTO NO. BC5614/025

SAMPLE NO. 82-NXG-B	LOCATION	Depth (cm)	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Pb	Zn	Ag	As	Au
10E, 15+20N		7	A,B	dk br	fine sandy silt	lots		med	meadow		9	97	0.1	11	10
15+40N		15	A,B	dk br	"	"		"	"		6	111	0.1	10	<10
15+60N		12	B	"	fine silty sand	mod		"	meadow spruce pine	edge of trees	6	85	0.1	10	10
15+80N		10	B	"	med. sand	mod		flat	moss		6	92	0.1	10	<10
16+00N		15	B	"	"	"		"	moss spruce pine		5	88	0.1	11	<10
16+20N		15	"	med br	"	"		"	"		7	60	0.1	9	<10
16+40N		10	"	"	"	"		gentle	spruce pine		2	75	0.1	10	<10
16+60N		10	"	"	fine sandy	"		"	"		13	83	0.1	12	20
16+80N		7	B	"	"	"		"	spruce pine moss		16	290	0.1	9	10
17+00N		20	"	"	med sandy	"		~~flat~~ (moss)	"		6	94	0.1	9	10
17+20N		10	"	lt br	med daysand	"		"	"		7	76	0.1	11	<10
17+40N		15	"	med br	fine daysand	"		"	"		10	69	0.1	7	<10
17+60N		5	"	"	med sandy	"		"	meadow	edge of trees/burnout; 2nd ridge	6	102	0.1	10	20
17+80N		15	"	orange brown	fine silty sand	"		"	moss grass		7	102	0.1	11	<10
18+00N		15	"	"	"	"		gentle	"		5	93	0.2	12	<10
18+20N		15	"	med brown	fine sand	"		"	"		6	92	0.1	9	20
18+40N		20	"	"	"	mod		flat	moss bushes	in first valley	37	143	0.1	9	<10
18+60N		7	"	orange brown	"	"		"	moss grass		7	105	0.1	10	<10
18+80N		15	"	lt br.	"	"		gentle	"		10	95	0.1	10	20
19+00N		15		orange brown	"	"		flat	meadow		5	85	0.1	11	<10

J.C. ST[illegible]PHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SH[illegible]ET – SOIL SAMPLING

SAMPLER: A. Candy / N. S[illegible]

DATE:

PROJECT: Wewey Syr. [illegible] Claims I

NTS:

LINE: 11E

AIR PHOTO NO.:

SAMPLE NO.	LOCATION	Depth	Horiz	Colour	Part Size	% ORG.	Ph	SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	Pb ppm	Zn ppm	Ag	As	Au
82 N[illegible]G-B	11E 13+00N	6"	B	L. br	fine	low		steep	gr. fl	Dead fall	8	115	0.1	15	<1[illegible]
"	11E 13+20N	11"	B	L. Brown	fine sand	mod		steep	–	D.F.	10	140	0.1	12	<1[illegible]
"	11E 13+40N	4'	B	br.	fine	mod		"	–	deadfall D.F.	11	164	0.2	9	10
"	11E 13+60N	9"-10"	B	L. Brown	sand, silt	mod		steep	–	poor profile D.F.	4	113	0.1	10	<10
"	11E 13+80N	5"	"	red/br	fine sandy	low		"	grasses	D.F.	23	480	0.1	23	20
"	11E 14+00N	2"-3"	A	L.Brown	some pebbles	mod		steep	none	exposed soil D.F.	18	172	0.2	19	<10
"	11E 14+20N	5'	B	gr/br.	fine/pebbles	"		"	–	D.F.	22	134	0.1	35	10
"	11E 14+40N	8"	B	red brown		mod		mod	grass flower	D.F.	24	228	0.1	14	<10
"	11E 14+60N	3"		L. br	sandy	med		"	"		6	104	0.1	10	<10
"	11E 14+80N														
"	11E 15+00N										53	410	0.1	32	<10
"	11E 15+20N										21	115	0.1	50	<10
"	11E 15+40N	4"	B	br	fine	med		steep	–		15	107	0.1	14	<10
"	11E 15+60N	4"-6"	B	brown	F. sand	Low		gentle	–		13	90	0.1	16	<10
"	11E 15+80N	1"	B	L. br	sandy pebbly	low		slight	fl/DF		7	78	0.1	12	<10
"	11E 16+00N	8"	B	brown	course sand	mod		gentle		good profile	4	75	0.1	9	<10
"	11E 16+20N	/	/	tan	fine	low		"	fl. etc.	sample taken from roots of upturned tree	8	90	0.1	9	<10
"	11E 16+40N	6"-8"	B	brown	sandy	mod		gentle	Pine moss	moist	6	72	0.1	9	<10

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

SYNDICATE

SAMPLER W.S.Sins / A.C Candy

DATE

PROJECT Newer Syn. Grizzlclaims

NTS

LINE 12E

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Pb ppm	Zn ppm	Ag	As	Au
82 NW6-B	14+60N 12E	6"	B	L. brown	f. sand	med		steep	—	D.F.					
	12E 14+80N	2"	B	tan colour	f. sand	low		steep	flowers	D.F	6	85	01	14	<10
	12E 14+40N	3"	B	med brown	v. fine sand	low		steep	grasses very	D.F.	28	138	0.1	39	<10
	12E 14+20N	8"	B	d. brown	f. sand	high		steep	—	D.F.	20	193	01	17	<10
	12E 14+00N	5"	B	brown	fine	med		steep	grasses	D.F.	10	248	01	15	<10
	12E 13+80N	10"	B	lt. red brown	f. sand	mod.		mod.	—	D.F.	12	180	01	19	<10
	12E 13+60N	3"	B	brown	sand	med		steep	grasses	D.F.	7	98	01	10	<10
	12E 13+40N	4"	B	brown	sand	mod		mod.	grasses flowers	D.F.	5	106	01	10	<10
	12E 13+20N	5"	B	brown	sand	mod		mod	grasses	? D.F	45	300	02	41	<10
	12E 13+00N	6"	B	Lt red brown	silty	mod.		mod	grasses	D.F.	8	195	01	9	10

J.C. ST[illegible]PHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – ~~SOIL~~ TALUS SAMPLING

SAMPLER: Jean Pautler, Susan Kay

DATE:

PROJECT: Newex - Griz I

NTS: 104K/10E

LINE:

AIR PHOTO NO.: BC 5614 025

SAMPLE NO.	LOCATION	Depth (cm)	Horiz	DESCRIPTION: Colour	DESCRIPTION: Part Size	DESCRIPTION: % ORG.	DESCRIPTION: Ph	SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS: Pb	ASSAYS: Zn	ASSAYS: Ag	ASSAYS: As	A.
NXG-BT-512	ridge NE of camp	5	C	dk br.	med	mod		mod	spruce pine	overlying rusty porph. OTC	62	103	0.1	14	1
BT 104		—	C	med br	med, silty ~~sand~~ sand	mod		mod	bushes		34	103	0.1	4	1[illegible]
BT 105		3	C	"	"	lots		"	balsam moss	pyritic fp otc.	38	126	0.1	41	1[illegible]
BT 106											116	140	0.1	17	<1[illegible]

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

SYNDICATE

NTS 104 K/10 E

SAMPLER Poulter, S Kay

PROJECT [illegible] — GRIZ, SE

LINE

DATE

AIR PHOTO No. BC 5614 25

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS Ag	As	Au	Pb
(1)	28440B	in gully near camp	very silicified feldspar porph.		py					0.2	210	<10	
(2)	28441B	GRIZ 1	qtz breccia	Mn staining			rusty feldspar porph frags.			0.1	15	<10	
(3)	28442B	GRIZ 1	silicif. f.p.	silicified.	py					0.2	12	<10	
(4)	28443B	E of camp along ridge	qtz bx				angular frags of very red rust f.p.			0.1	9	<10	
(5)	28444B	W of 43.	f.p.	silicified	py					0.1	9	<10	
(6)	28445B	W of 44	"	v. silicified	lots py					0.1	4	<10	
(7)	28446B	in gully	"	silicified rusty	" "					0.1	35	20	
(8)	28447B	top of gully	sil f.p.	silicified, bleached	py		few grey qtz veinlets.			0.9	355	<10	
(9)	28448B	NW of camp	qtz-carb vein	rusty.			talus below f.p. ote	2 cm		0.1	11	<10	
(10)	28449B	in bottom of gully	silicified f.p.	rusty silicified	py lots		small zone ± 1m long trending ± N.			0.8	41	20	
(11)	28450B	8E/17+60N	"	"	py					0.3	9	<10	
(12)													
(13)													
(14)	28367B	ridge behind camp	lt. blue-gray feldspar porph.	silicified	seams of f.gr. gal., py					1.1	5	10	40
(15)	28368B	NE of 28367	"	"	dissem. f.gr. py					0.6	6	10	
(16)	28369B	ridge NE of camp	qtz-vein	rusty weath.	—	100°/90°	sugary & drusy qtz			0.1	7	<10	
(17)	28370B	beside B-517	qtz bx	rusty weath	f.gr. dissem sulphides					0.2	65	<10	
(18)	28371B	gully behind camp	altered f. porphyry	rusty weath. silicified	f.gr. blebs & dissem sulph					0.1	94	<10	
(19)	28372B	beside B-518	lt. blue gray feldspar porph	silicified	f.gr. dissem & veinlets of py					0.3	5	<10	
(20)	28373B	east of 72B	"	"	"		pink weathering rind			0.1	5	<10	

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

SYNDICATE

NTS 104K/10E

SAMPLER J Pautler

PROJECT Newex — GRIZ 1, 2, 3

LINE

DATE

AIR PHOTO No. BC 5614 075

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH / TRUE WIDTH	ASSAYS Au.	As.	Ag	Pb	
1)	28451B	Trench 3 GRIZ 1	Silica rich vein		py, cte, sp, minor gn		extension of Trench 3		10c	7000	0.2	5000	Au
2)	28452	E of Tr. 2 GRIZ 1	Silica rich	very altered	brown altered mineral ?		heavy		<10	65	1.2		
3)	28453	E of 28452	Siliceous - cherty vein	rusty weath	py, v. minor gn (1 crystal in duplicate)	100°	brecciated in spots with fp fragments		<10	150	0.1	248	Au
4)	28454	NE of lge gully (G-1)	Siliceous vein, cherty	Mn staining v. rusty weath	minor py		same as rock around trenches.		<10	53	0.1		
5)	28455	E side Big Rk (G-1)	V. silicified f.p.		py		above 28375B		<10	11	0.1		
6)	28456	GRIZ-1	qtz-carb vein	very rusty	cte veins.		heavy brecciated in places		<10	11	0.1		
7)	28457B	EMU	cherty-silcte vein	Mn staining rusty			partly brecciated.		<10	5	0.1		
8)	28458	N of ridge with showing (G-3)	silicified rk.	rusty weath	cte veins.		some brecciation		<10	3	0.2		
9)	28459	W. part of ridge with showing (G-3)	qtz-cte breccia	rusty weath			v. rusty f.p.? frags		<10	3	0.1		
10)	28460	GRIZ 3	qtz-cte breccia				rusty fp frags lge, angular talus.		<10	2	0.1		
11)	28461	"	Cherty vein	Mn stained rusty weath					<10	30	0.1		
12)	28462B	near 4051C + 28461	Siliceous vein in f.p.		minor cte		heavy		<10	14	0.1		
13)	28463B	GRIZ 3	Silica rftzed	rusty weath Mn staining	py				<10	30	0.2		
14)	28464B	W of 28463B	"	rusty, Mn st	py, gn, sp.				0.005		7.01g	1.03%	Au/As
15)	28465B	W of 464	Silicified zone in fp			284°			<10	65	0.2		
16)	28466	W of 465	"	Mn staining		240°			<10	19	0.1		
17)	28467B	further W.	chert-bx silica vein	Mn staining rusty					40	19	0.7		
18)													
19)													
20)	32752C	Extended trench #2 West	silicified qtz vein	rusty weather.	py, sphalerite, galena(?)		v. rusty (no breccia)		<10	145	10.7	2%	Au/As

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – ROCK GEOCHEM SAMPLING

SYNDICATE

NTS 104K/10E

SAMPLER ~~Jean Pautler~~, ~~Susan Kay~~ Susan Kay

PROJECT Newex – GRIZ 1, 2, 3

LINE

DATE

AIR PHOTO No. BC 5614 075

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS Au.	As.	Ag	Pb	Z
(1)	28374B	GRIZ I	feldspar porphyry	silicified	f gr. dissem. & blebs py.		pink weath. rind			~10	~	0.1	42	3
(2)	28375B	GRIZ I beside B-525	"	silicified rusty weath. rind	pyritic surfaces of gr. dissem py		rusty weath.			< 10	5	16.5	51	1
(3)	41051C	GRIZ 3 east of Frez Lk.	quartz breccia	rusty weath.	f.gr. blebs ga., py.		rusty weath frags			<10	48	2.5		
(4)	41052C	GRIZ 3 east of 051C	"		py, ga, f.gr.	76°/40°N	cherty appearance			<10	30	0.1		
(5)	41053C	GRIZ 3 east of 052C	"	rusty weath	f gr ga, py, sph.,		dk. rusty br. weath cts veins			<10	225	0.3		
(6)	41054C	GRIZ 3	well silicified felds. porph	rusty weath.	seams of ga.		float; south of 41053C			<10	15	1.0		
(7)	41055C	GRIZ 1, NN	altered feldspar porph	silicified; rusty weathering	seams of ga-py		extended NW end of Trench 2			<0.003		3.0 g	3.0%	26
(8)	41056C	"	"	silicified; rusty weath; Hn-stnd.	"		extended W end of Trench 3			<0.003		0.12 g	0.13%	0.1
(9)	41057C	"	"	"	"		extended E end of Trench 3			0.003		0.60 g	0.44%	0.5
(10)														
(11)														
(12)														
(13)														
(14)														
(15)														
(16)														
(17)														
(18)														
(19)														
(20)														

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

SAMPLER Jean Pautler, Susan Kay PROJECT Newex - Griz I, SE

DATE

NTS 104K/10E

LINE

AIR PHOTO NO. BC 5614 025

SAMPLE NO.	LOCATION	Depth (cm)	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Pb	Zn	Ag	As	
NXG-B-516	beside 28443	5	B	dk br.	med sand	few		mod	grass bushes	rusty porph. OTC	7	71	0.1	9	<1
B-517	~~[illegible]~~	5	B	rusty or. br.	clayey	lots		mod	meadow		10	130	0.1	10	<1
B-518	in valley NW of camp	7	B	dk br.	clayey sil	mod		mod	spruce pine		18	100	0.1	15	<1
B-48		3	B	rusty br	fine	mod		flat	grass moss balsam	rolling marked f.p. ote.	6	82	0.1	12	<1
B-49		5	B	rusty or	fine	few		gentle	grass, mos burn cut	" " " "	7	100	0.1	12	10
B-50		2	B	Rusty br.	fine silty sand	mod.		mod.	"	" " " "	9	100	0.1	10	20
B-51		5	B	"	med silty sand	"		"	"	altered, sil. f.p. ote.	6	63	0.1	7	10
B-52		4	B	Or-Br	fine	few		gentle	Moss balsam bushes		21	128	0.1	10	10
B-53		10	B	med br.	fine sandy silt	lots		"	balsam grass	scrub	30	143	0.1	25	10
B-54		7	B	lt. br.	fine silty sand	mod		mod	"		10	95	0.1	24	20
B-55		7	B	"	"	"		"	"	beside gully	15	120	0.1	22	10
B-56		10	B	rusty med br	"	"		gentle	balsam scrub trees	above sil fp ote.	15	106	0.1	19	<1
~~B-57~~ B-57		2	B	rusty br	"	"		mod.	"		65	270	0.1	94	<1

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – ~~STREAM SILTS~~ SOIL SAMPLES

SYNDICATE

SAMPLER ~~Jean Pezzetta~~, Susan Kay

PROJECT Newex - GRIZ 1, 2, 3

NTS 104K/10E

DATE

CREEK

AIR PHOTO NO. BC 5614 ~~BCE~~ 075

SAMPLE NO.	~~VOLUME~~ ~~HORIZON WIDTH~~	Depth (cm)	Slope ~~VELOCITY~~	Ph	Veg ~~TYPE OF SAMPLE~~	COLOUR	Grain size TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Pb	Zn	Ag	Au
G-B-519	B	2	gentle	-	moss spruce pine	orange brown	silty sand	abund	feldspar porphyry		7	80	0.1	<10
B-520	B	10	flat	-	moss grass	dk br.	"	mod	"		14	85	0.1	<10
B-521	B	15	flat	-	"	dk red brown	"	mod.	"	west of B-520	7	93	0.1	<10
B-522	B	5	"	-	moss	med br.	"	mod	"	west of B-521	13	92	0.1	<10
B-523	B	7	gentle	-	none	"	pebb sand	few	"	west of B-523	11	88	0.1	<10
B-524	B	7	"	-	"	lt. rusty br.	"	abund.	"		10	98	0.1	10
B-525	B	5	"	-	"	med br.	coarse "	few	"		181	210	0.1	10
B-526	B	7	mod	-	grass moss spruce	lt or br.	pebb sand	mod	"		124	155	0.1	40
B-527	B	10	gentle	-	spruce pine	or. brown	silty sand	mod	"		27	123	0.1	20
B-528	B	10	mod	-	grass moss	or-yell brown	coarse pebb sand	mod	"		29	63	0.1	<10
B-529	B	7	~~flat~~ (~~Hard~~)	-	moss grass	med or. brown	clayey sand	mod (~~mod~~)	"		6	87	0.1	10
B-530	B	5	flat	-	"	"	sandy silt	abund	"		34	96	0.6	10
B-531	B	5	flat	-	none	lt or brown	coarse pebb sand	none	"		19	103	0.4	10
B-532	B	5	gentle (~~Hard~~)	-	none	med br.	clayey sand	none.	mineralized qtz bx	beside 41051C	21	135	0.2	10

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – ~~STREAM SILTS~~ SOIL SAMPLES

SYNDICATE

SAMPLER Jean Pautler

PROJECT Newex - GRID 1, 2, 3

NTS 104K/10E

DATE

CREEK

AIR PHOTO NO. BC 5614 075

SAMPLE NO.	~~VOLUME~~ HORIZ Width	~~VOLUME~~ Depth (cm)	SLOPE ~~VELOCITY~~	Ph	VEG ~~TYPE OF SAMPLE~~	COLOUR	Grain Size TEXTURE	% ORGANIC MATERIAL	PETROLOGY OF BEDROCK AND/OR FLOAT	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS Pb	Zn	Ag	Au
XG-B-58	B	10	flat	-	moss balsam	or. br.	fine sandy	few			10	90	0.1	<10
B-59	B	10	flat	-	moss scrub	rusty br.	fine	lots	feldspar porph		4	80	0.1	<10
B-60	B	5	flat	-	moss	dk br	fine	few	"		5	93	0.1	<10
B-61	B	5	"	-	moss	rusty br.	fine	mod	"		8	87	0.1	<10
B-62	B	2	"	-	moss	v. rusty or. br.	fine	few		near B-115 from 1981	15	50	0.1	<10
B-63	B	3	gentle	-	"	rusty or br	med	mod	rusty sil f.p. ☆ py	near B-62	31	55	0.1	10
B-64	B	10	"	-	balsam scrub	med dk br	fine sandy	mod			9	95	0.1	<10
B-65	B	2	flat	-	moss	med br	coarse sandy	med	rusty f.p.		5	42	0.2	<10
B-66	GB	3	gentle	-	moss	partly rusty br	coarse	"	f.p. etc	☆	21	108	0.1	<10
B-67	B	7	"	-	"	med br	fine	"	" "		8	85	0.1	<10
B-68	B	5	flat	-	moss balsam	rusty br	"	"	rusty f.p. etc	~~A&B~~	12	77	0.1	10
B-69	B	10	flat	-	moss grass	rusty	"	"	f.p. etc.		10	112	0.1	<10

A P P E N D I X II

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Jean Pautler, am a graduate of the Honours Bachelor of Science program at Laurentian University, Sudbury, Ontario, 1980.

I have the following employment experience:-

April 1981 to present Geologist with J.C. Stephen Explorations Ltd. North Vancouver, B.C.

May to October 1980 Geologist with J.C. Stephen Explorations Ltd.

May to August 1979 Assistant geologist with Kelvin Energy Ltd. Calgary Alberta.

May to September 1978 Assistant geologist with the Ontario Geological Survey, Toronto, Ontario

NOVEMBER 1981 JEAN PAUTLER

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

GRIZ 1 and 2 MINERAL CLAIMS

Record Nos. 1411 and 1412

Map Sheet 104K/10E

Latitude: 58°37'N Longitude: 132°35'W

ATLIN MINING DIVISION

B.C.

by

J.M. Pautler

October, 1981

Work done: August 5-15, 1981

By: J.C. STEPHEN EXPLORATIONS LTD.

Funded by: Newex Syndicate

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

SUMMARY

(1) GRIZ Group One consists of 24 units and is located 120 kms. southeast of Atlin, B.C.

(2) The claim group was staked to cover an anomalous gold value and several occurrences of galena-sphalerite mineraliz - ation with associated silver values.

(3) A crew of 2 to 4 people spent 15 mandays on the property beween August 5 and 15, 1981.

(4) The claims are occupied by a large Tertiary feldspar porphyry body which intrudes Jurassic and possibly Triassic sediments.

(5) Property mapping was at a scale of 1:31,680 using air photos. Four trenches containing mineralization were mapped at a scale of 1:50.

(6) Nine selected chip samples were taken from the trenches. Gold values of 0.138 and 0.038 oz/ton were obtained. Silver values were up to 2.23 and 3.38 oz/ton; zinc values were up to 0.77 and 3.05%; lead values were 0.48 and 1.78%.

(7) A soil/talus grid providing 62 samples was established on GRIZ 1. A strongly anomalous area is indicated. A few of the reconnaissance soil and rock samples are also anomalous.

(8) Geological mapping at 1:2,500, extensien of the soil sample grid and additional trenching are recommended for the 1982 program.

INTRODUCTION

Griz Group One constitutes the 20 unit Griz 1 claim and the 4-unit Griz 2 claim, which were staked in early August, 1981. Griz 1 was staked to cover a number of small occurrences of gold, silver, lead and zinc lithogeochemical results. The Griz 2 claim was staked to cover a fault contact that extends through Griz 2 and 3 which may be important in the mineralizing process.

Field work carried out in August, 1981, involved detailed geological mapping at a scale of 1:50 of four trenches which were dug. Limited geological mapping of the property at a scale of 1:31,680 was also conducted and further prospecting on the northwest side of the property was carried out. A total of 21 rock, and 102 soil and talus samples were collected for analysis.

The claim group is immediately south of the Taku Plateau within the Coast Mountains.

The topography of the claims consists of a plateau area at 4,500 - 5000' in the northwest section and a large ridge at 4,000' with several smaller ridges, in the southeast part. A large valley separates the northwest and southeast sections. A smaller northeast trending valley cuts through the Griz 2 claim.

Vegetation on the plateau area and on the highest part of the large ridge is sparse. It consists of grass, moss and some patches of thick balsam trees and shrubs. Most of the southeastern part of the large ridge and the smaller ridges have been burnt about 10 years ago and are

covered by second growth. The sides of the main valley and the southern part of the ridge are covered by a thick balsam and spruce forest.

Drainage on the claim group is provided by numerous creeks which drain into the main valley and also the smaller valley. Both valleys contain swampy southwesterly flowing creeks. The drainage of the plateau area is generally poor with many swampy areas.

CLAIMS REGISTER

Claim	Record Number	Record Date
GRIZ Group One		
Griz 1	1411	Aug 14, 1981
Griz 2	1412	Aug 14, 1981

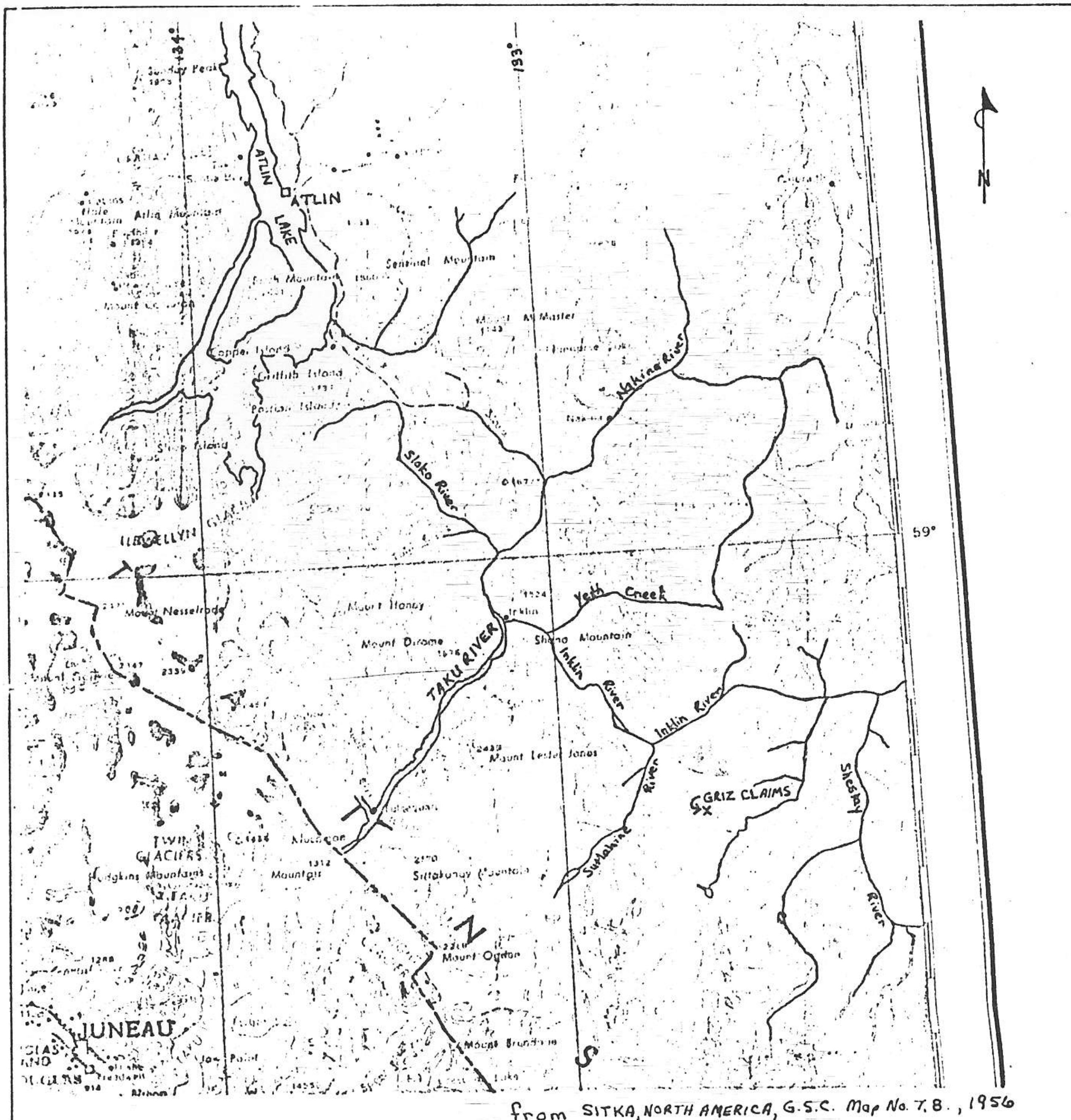
Griz 1, consisting of 20 units, has been grouped with the 4-unit Griz 2 claim for assessment purposes.

LOCATION AND ACCESS

The Griz 1 and 2 claims, (map sheet 104K/10E), are located approximately 15 kms north of Trapper Lake, which is 132 kms southeast of Atlin, B.C. (Refer to Figure1). Latitude and longitude are 58°37'N and 132°35'W.

Adjoining the claims on the north side is Chevron's 20 unit EMU claim. Much of the Griz 2 claim overlaps Chevron's 20 unit Way 5 claim. (Figure 2).

Access to the property is by helicopter from Atlin or Dease Lake.



J.C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

GRIZ CLAIMS

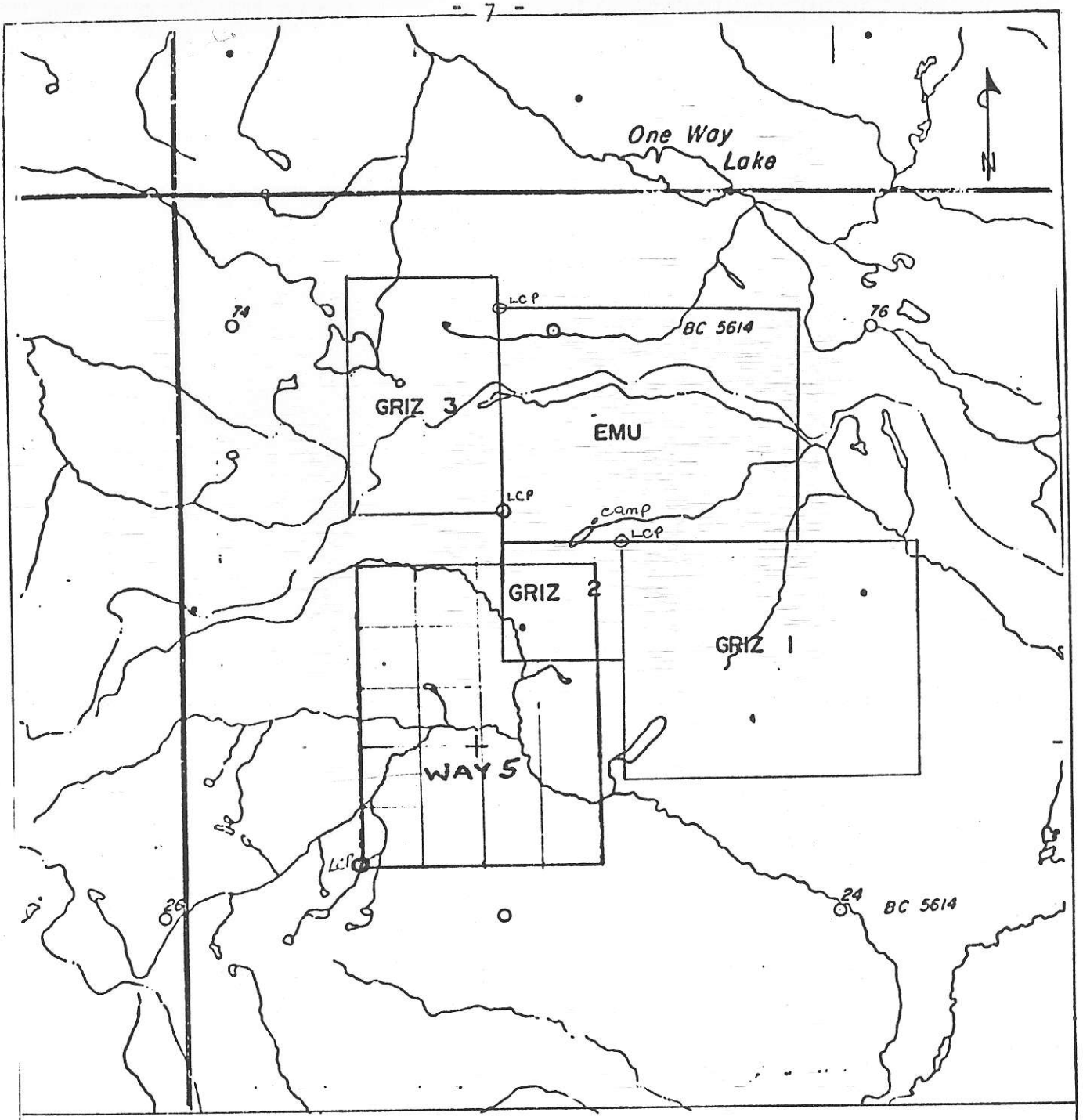
NTS 104K/10E

LOCATION

SCALE 1:1,000,000

0 10 20 kms.

FIGURE 1



CLAIMS SURVEYED by TOPOCHAIN and COMPASS.

J. C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

GRIZ CLAIMS

NTS 104K/10E

CLAIM MAP

0 0.5 1.0 kms.

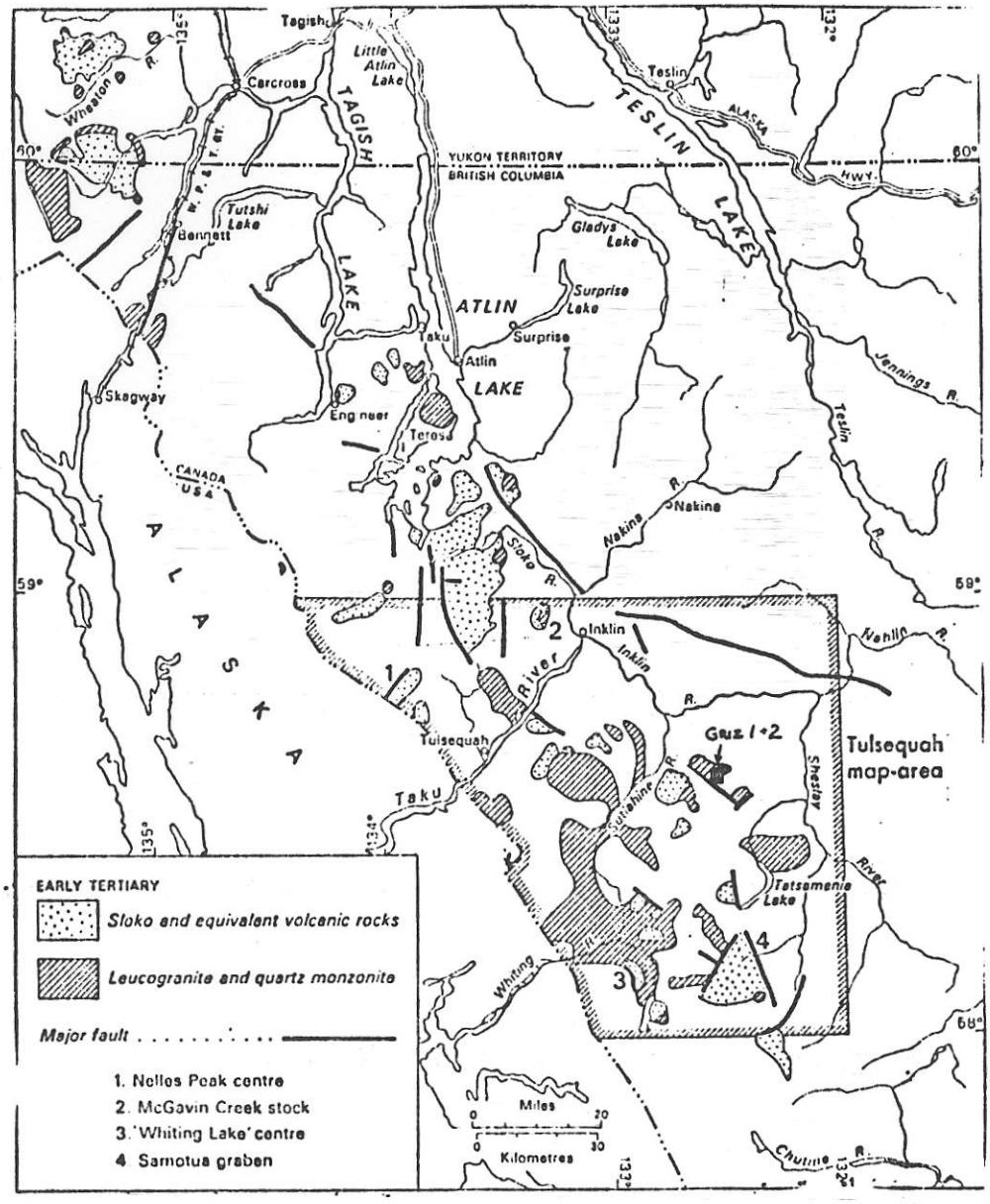
SCALE 1:50,000

FIGURE 2

REGIONAL GEOLOGY

The regional geology has been mapped by the G.S.C. at a scale of 1:250,000 and is published as Tulsequah - Juneau map sheet 104K.

Griz Group One is situated in the area of a Late Cretaceous to Early Tertiary quartz feldspar porphyry intrusion which is one of many that form a west northwesterly trending belt from Trapper Lake to Yonakina Mountain. These intrusive bodies are in close spatial association with the Sloko volcanic rocks of the same age which are limited to a larger northwesterly trending belt along the eastern edge of the Coast Mountains. Figure 3 shows the distribution of the Sloko volcanic rocks and related intrusions within the Tulsequah map area. The Sloko volcanic rocks are of interest due to the number of gold occurrences found associated with them.



from G.S.C. Memoir 362, 1961, p 29.

J. C. STEPHEN EXPLORATIONS LTD.

NEWEX SYNDICATE

GRIZ CLAIMS

NTS 104K/10E

DISTRIBUTION of SLOKO VOLCANIC ROCKS

SCALE: 1:1900800

0 kms. 30

FIG. 3

PROPERTY GEOLOGY

MAPS I , II

Rock Types

The limited geological mapping conducted on Griz Group One indicated the existence of various phases of the quartz feldspar porphyry. The southwestern fault contact with the Takwahoni sedimentary rocks present on GRIZ 3 was not observed on GRIZ 1 and 2. This is due to the presence of thick bush in the area of occurrence of the sedimentary rocks. Outcrop of Takwahoni Formation bedded shales and siltstones is present in the creek southwest of the claim group. Mapping was conducted in conjunction with that on GRIZ 3 thus the quartz feldspar porphyry is Unit 3.

Unit 3 - Quartz Feldspar Porphyry

Both effusive and hypabyssal varieties of what the G.S.C. refer to as a quartz feldspar porphyry, are present on the property. The porphyry would more properly be termed a feldspar porphyry in this area since quartz phenocrysts are not common. The rock varies from aphanitic to fine and rarely medium grained, contains feldspar phenocrysts of varying sizes, occurs with or without biotite and hornblende phenocrysts. Colour ranges from pinkish through to pinkish grey and commonly green. Minor pyrite is common. Small quartz veins, commonly drusy and up to 1 cm wide cut the porphyry. Larger quartz veins are also present.

A thin section of a phase of the feldspar porphyry was prepared by Vancouver Petrographics Ltd., Fort Langley, B.C. The specimen, (J.P.-1), was classified as a hypabyssal trachyandesite. The petrographic description is available in Appendix II.

A thin section of the same porphyry body was prepared for a specimen from the GRIZ 3 claim, northwest of GRIZ Group One. This sample was also trachyandesitic in composition suggesting a uniform composition for the feldspar porphyry body although various phases are evident.

Structure

The G.S.C. shows a fault contact between the feldspar porphyry and the Takwahoni sedimentary unit. Although a contact must exist in this area, it has not as yet been observed.

The feldspar porphyry is cut by several small vertical joint sets. The most common of these trend 80-90^{o} and 5-20^{o}. Others trend 160^{o} and 40^{o}.

Mineralization

Several occurrences of galena and sphalerite were found throughout the GRIZ 1 property. On the south-east side of the main valley that cuts the claim, there are two outcrops in which galena mineralization occurs as small blebs, (from 1-5 mm in size), in a highly silicified feldspar porphyry host rock. The silica is almost black in the best mineralized areas. Rusty, calcite-sphalerite veins, quartz veinlets and Mn staining appear to be associated with the mineralization.

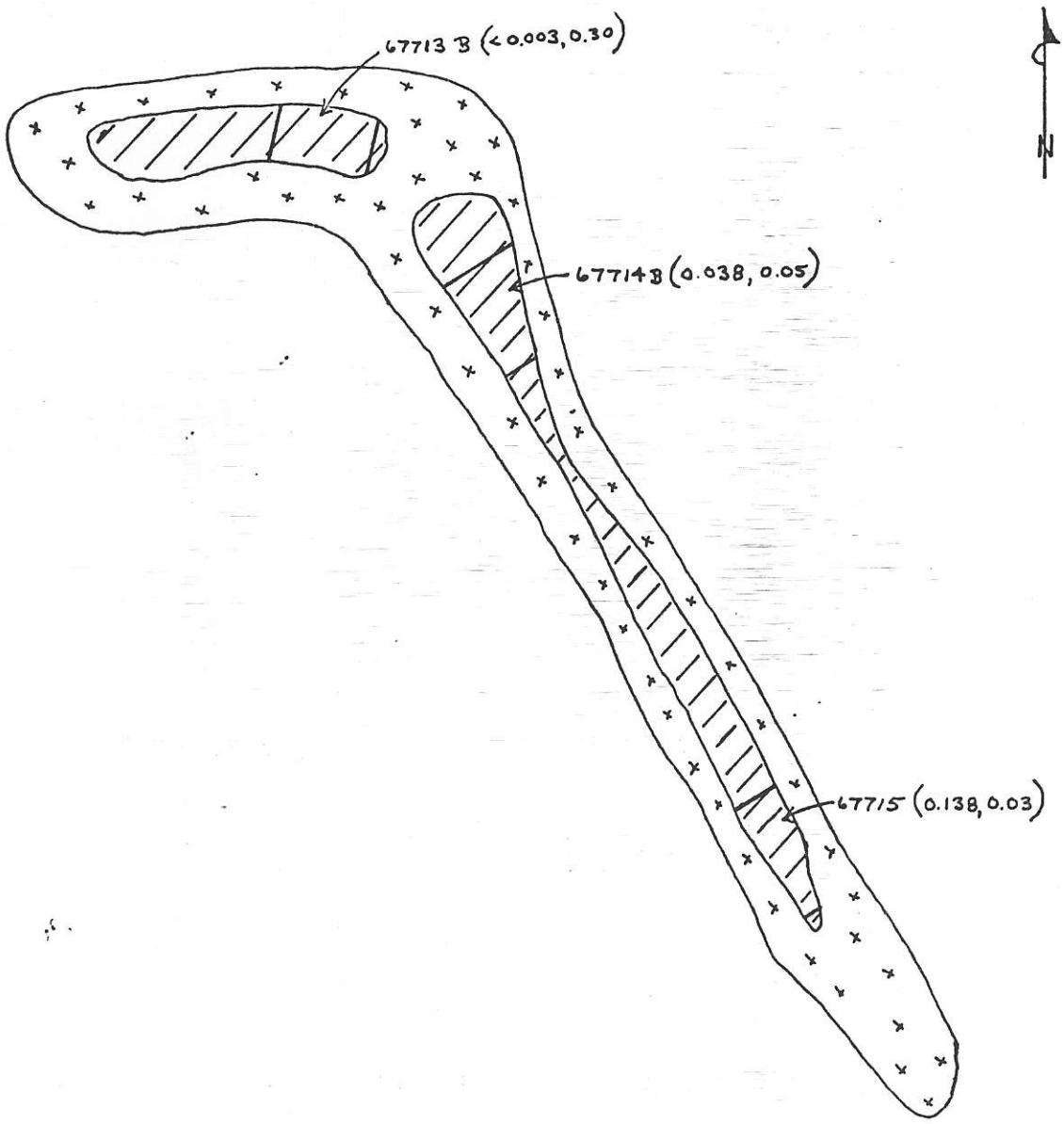
The southernmost of the 2 occurrences mentioned above also contain a pyritic quartz breccia and abundant pyritic seams.

Veinlets of galena and sphalerite up to 8 mm in width were found on the northwest bank of the main valley. Abundant pyritic and silicified zones and calcite veins were associated with the mineralization. Mn staining was also evident.

Along this same ridge, several zones of silica replacement with disseminated pyrite were observed. Several small calcite-sphalerite veins a few centimetres wide were also noted.

A trench was established where the galena veinlets were found and two more similar zones were discovered in the process. Trenching was also undertaken in these areas. Small silicified veins containing galena, sphalerite and calcite lenses and with Mn staining were exposed within a silicified feldspar porphyry host rock. Two of the veins had a trend of about 60^{o} while the strike of the third was 83^{o}. All the dips were almost vertical. The geology and geochemistry of the trenches are illustrated in Figures 5 to 7.

A silicified zone that ran 1700 ppb gold was also trenched. The zone consists of silicified, Mn stained material with rusty feldspar porphyry fragments within a silicified, altered porphyry host. This trench is shown in Figure 4.



LEGEND:

SILICIFIED, Mn STAINED, with RUSTY QFP FRAGMENTS

SILICIFIED, ALTERED QFP

ROCK SAMPLE

67713B

(<0.003, 0.30) oz/ton (AU, AG)

J. C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

GRIZ I CLAIM

NTS 104K/10E

GEOLOGY & GEOCHEMISTRY

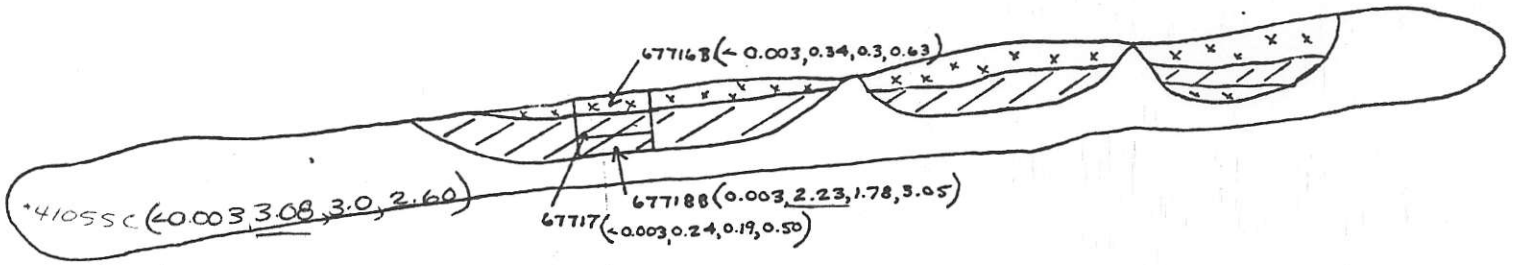
TRENCH I

DATE: AUG, 1981

SCALE: 1:50

1.0 2.0 METRES

FIG. 4



3275 2
(< 10, 10.7, 2430, 5000)
ppb ppm ppm

N

LEGEND:

- SILICIFIED QUARTZ FELDSPAR PORPHYRY
- VEIN with SILICIFICATION, GALENA, SPHAL., CALCITE LENSES, Mn STAINING
- RUBBLE
- ROCK SAMPLE (oz/ton, %: Au, Ag, Pb, Zn) — 67717

J.C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

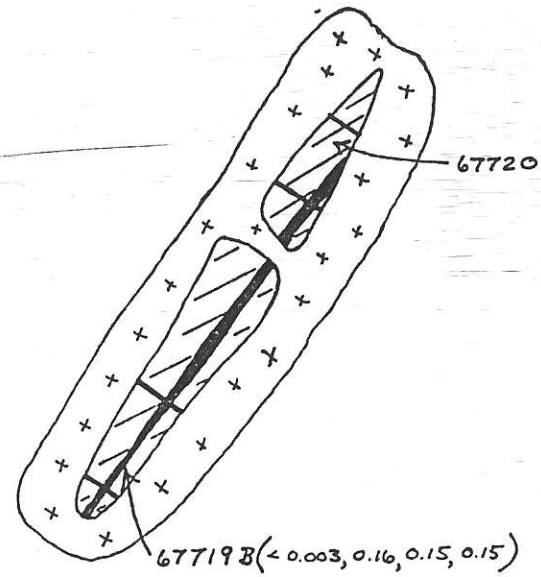
GRIZ 1 CLAIM

NTS 104K/10E

GEOLOGY & GEOCHEMISTRY
TRENCH 2

DATE : AUG, 1981
SCALE : 1:50

0 1.0 2.0
METRES



LEGEND:

SEE FIG. 5

Galena, sphalerite, calcite vein.

J.C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

GRIZ 1 CLAIM

NTS 104K/10E

GEOLOGY & GEOCHEMISTRY

TRENCH 3

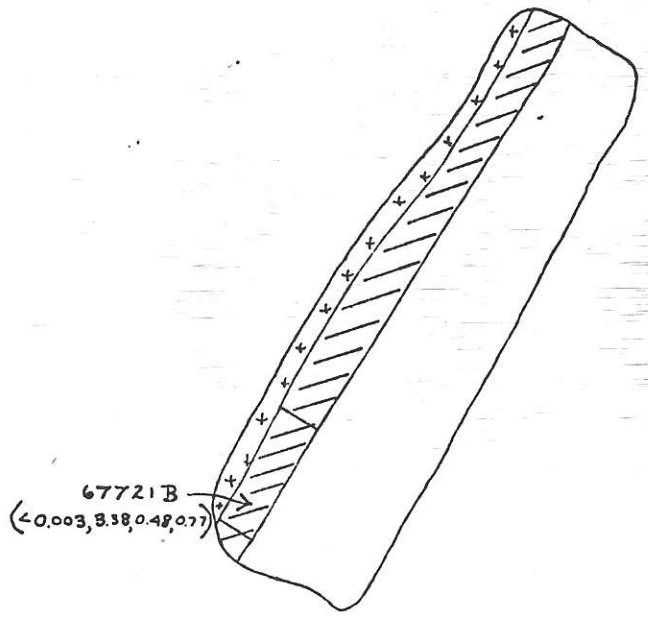
DATE: AUG, 1981

SCALE: 1:50

0 1.0 2.0

METRES

FIG. 6



LEGEND:

SEE FIG. 5

J.C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

GRIZ I CLAIM

NTS: 104K/10E

GEOLOGY & GEOCHEMISTRY

-TRENCH 4

DATE AUG, 1981

SCALE. 1:50

0 1.0 2.0

METRES.

FIG. 7

GEOCHEMISTRY

Soil and Talus

A topochain and compass soil and talus grid was established on GRIZ 1 on the top of the ridge forming the north-west bank of the main valley. The purpose of this grid was to determine the extent of the mineralization found in the area. Samples were taken at 20 metre intervals along cross lines 100 metres apart. A total of 62 samples were collected and analyzed for Au, Ag, As, Pb and Zn.

A soil grid consisting of 16 samples was established along the claim line between GRIZ 1 and 2 and continued along the northern boundary of GRIZ 2. The samples were analyzed for the same five elements.

Reconnaissance soil and talus samples were collected throughout the claims.

Method

The soil samples were collected mainly from the 'B' horizon and occasionally from the 'A' horizon, at depths of 5 to 40 cm. using a grubhoe. Samples were placed in waterproof kraft paper bags and sent to base camp where they were dried and sifted to -35 mesh. The samples were then sent to Chemex Labs, North Vancouver for analysis.

In the lab the soils were first pulverized to -100 mesh. The gold content in ppb was determined by aqua-regia digestion and chemical extraction followed by atomic absorption. Silver and arsenic in ppm, were determined by perchloric-nitric acid digestion and atomic absorption analysis.

Results

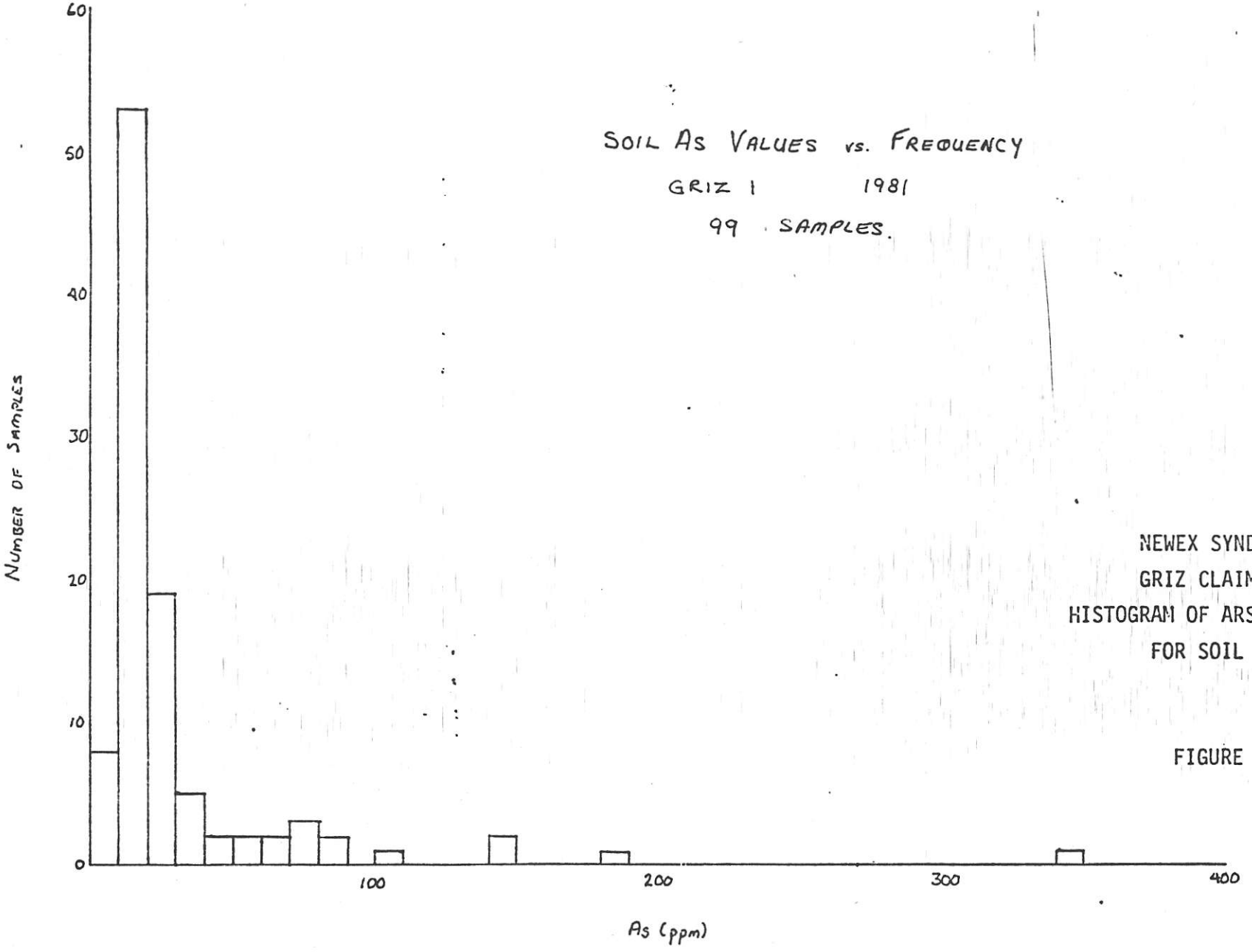
Several anomalous soil results were returned from the sampling on GRIZ 1 and 2. Arsenic, zinc and lead histograms were prepared and are shown in Figures 8 to 10. Arsenic and zinc show similar patterns for the 99 samples taken. There are five anomalous arsenic values and another nine possibly anomalous values from 50 to 90 ppm. The threshold from the zinc histogram appears to be 135 ppm. Ther are 35 values out of 99 samples that are above this level. The lead histogram shows 18 anomalous values.

Tha anomalous arsenic, zinc and lead results were almost entirely confined to the soil/talus grid on GRIZ 1. The samples taken around the four trenches were anomalous as well as the samples along the entire 3+00S line. Nine anomalous silver results from 0.5 to 3.8 ppm were also returned.

One slightly anomalous soil value came from the claim line between GRIZ 1 and 2 which ran 20 ppb Au, 0.1 ppm Ag, 20 ppm As, 190 ppm Zn and 144 ppm Pb at 800 metres south.

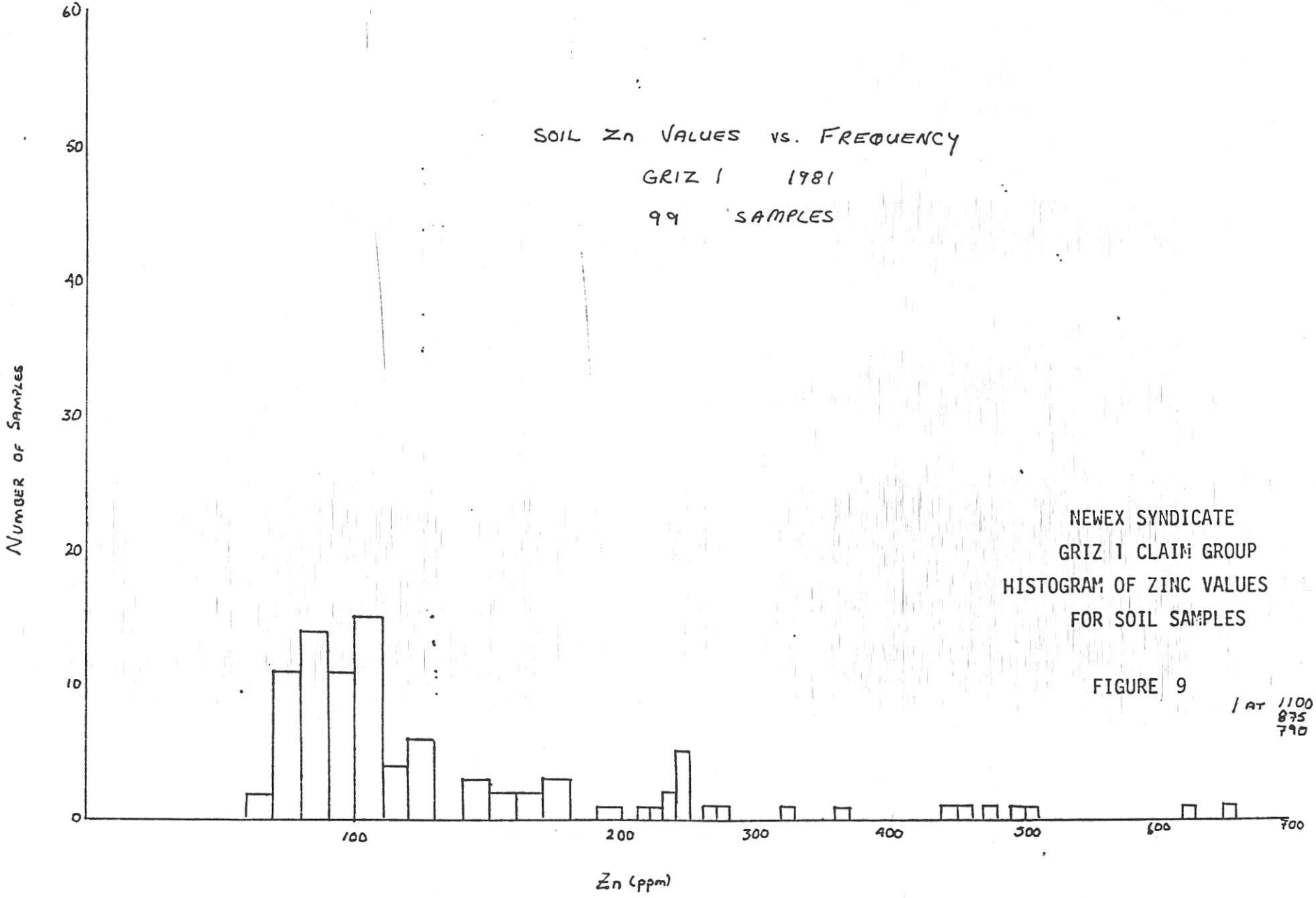
In the reconnaissance soil program one sample was anomalous and ran 20 ppb Au, 0.3 ppm Ag, 9 ppm As, 750 ppm Pb and 245 ppm Zn.

All results are plotted on Maps I and II in the pocket of this report.



NEWEX SYNDICATE
GRIZ CLAIM GROUP
HISTOGRAM OF ARSENIC VALUES
FOR SOIL SAMPLES

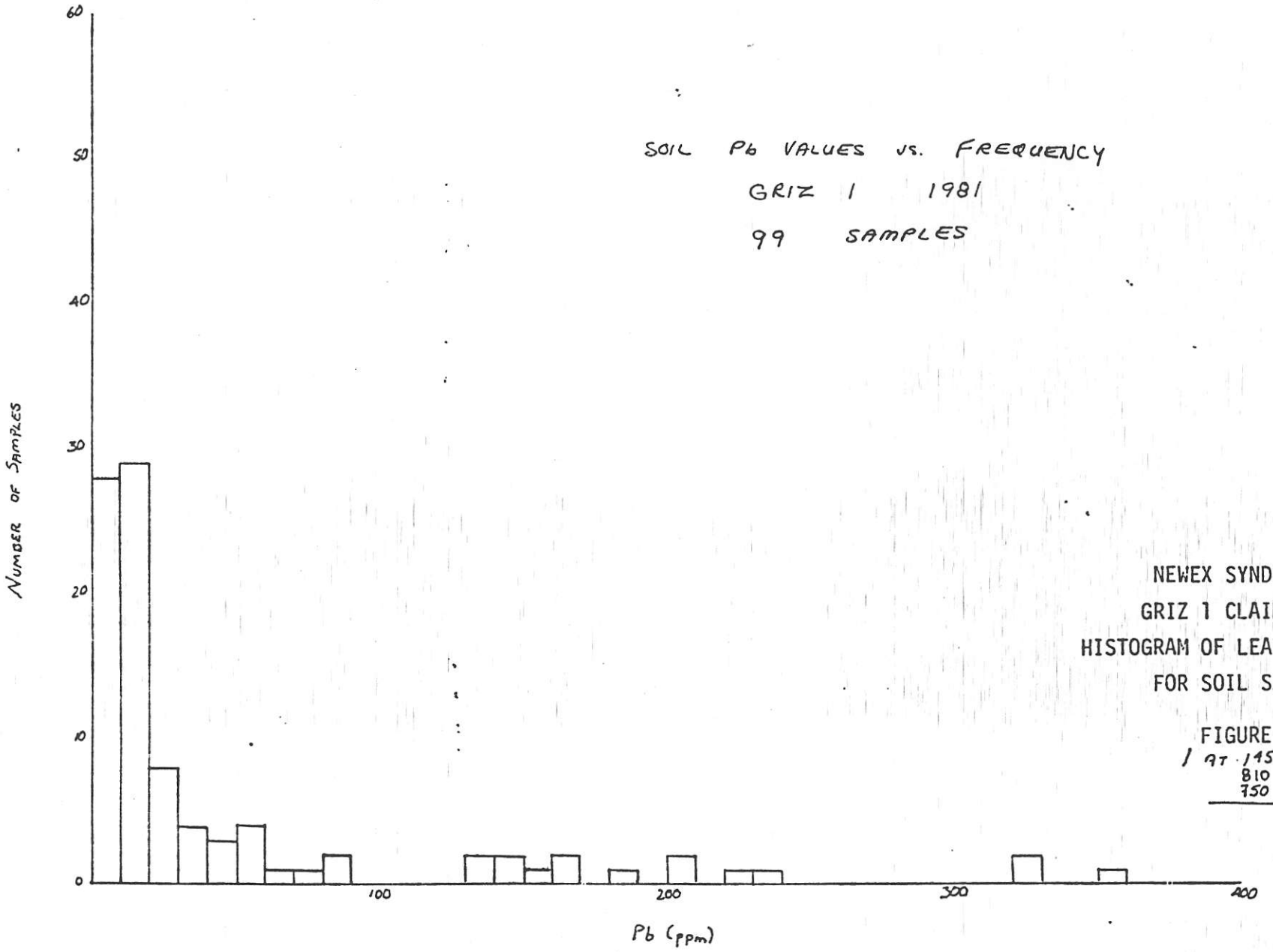
FIGURE 8



NEWEX SYNDICATE
GRIZ 1 CLAIM GROUP
HISTOGRAM OF ZINC VALUES
FOR SOIL SAMPLES

FIGURE 9

/ AT 1100
875
790



NEWEX SYNDICATE
GRIZ 1 CLAIM GROUP
HISTOGRAM OF LEAD VALUES
FOR SOIL SAMPLES

FIGURE 10

/ AT 1450
810
750

Rock Sampling

A total of nine selected chip samples were collected from four hand dug trenches. Sample locations and assay results are shown on Figures 4 to 7.

Two of the three samples from Trench 1 were anomalous in gold. The values were 0.038 and 0.138 oz/ton.

Trenches 2 and 4 returned anomalous silver, lead and zinc values of 2.23 oz; 1.78%; 3.05% and 3.38 oz; 0.48%; 0.77% respectively. Gold values do not appear to be associated with the galena-sphalerite mineralization.

In the reconnaissance program two samples of quartz veins (one with drusy quartz and pyrite) ran 50 ppb gold. The latter was associated with 0.5 ppm silver. Both samples were from a large outcrop of feldspar porphyry in the northwest corner of GRIZ 1. Another sample near 1S on GRIZ 1 ran 110 ppb gold. This sample consisted of a quartz carbonate vein with rusty breccia fragments of feldspar porphyry.

All results are plotted on Maps I and II in the back of this report.

CONCLUSIONS AND RECOMMENDATIONS

Property and detailed geological mapping of the trenches, chip sampling of the trenches and general prospecting were carried out in 1981. A total of $ 3530 was spent on this program.

Significant gold results were returned from the silicified zone in Trench 1 and interesting silver, zinc and lead mineralization was exposed in Trenches 2, 3 and 4. The soil/talus grid on GRIZ 1 showed significantly anomalous silver, lead and zinc results and a few reconnaissance samples were also anomalous.

Future work should include detailed mapping of the property at a scale of 1:2,500. Since the soil/talus grid on GRIZ 1 has not defined the limits of the anomaly this grid should be extended. Trenching should be conducted on this anomaly and Trenches 2, 3 and 4 might be extended to explore the area further. Additional prospecting and sampling on the property would be of value especially as little work has been done in the southeast section of the claims.

Respectfully submitted,
J.C. Stephen Explorations Ltd.

J.M. pautler

J.M. PAUTLER, GEOLOGIST.

STATEMENT OF EXPENDITURES

WAGES AND BENEFITS

J.M. PAUTLER	AUG 5,13,14	@ $1950/m + 15%	$224.25
M. HUGHES	AUG 5,7,13-15	@ $1750/m + 15%	335.42
E. SIDEY	AUG 13-15	@ $1750/m + 15%	201.25
D. KAPICKI	AUG 13-15	@ $1400/m + 15%	161.00
D. GUGLIELMIN	AUG 5	@ $1750/m + 15%	67.08
R. CAMPBELL	AUG 5	@ $1400/m + 15%	53.67
	TOTAL 15 MANDAYS		$1042.67

FOOD AND CAMP SUPPLIES

	15 MANDAYS @ $14	210.00

GEOCHEMISTRY

INVOICE 18299	3 soils for Au,Ag,As,Zn @ $10.25	30.75
13581	78 soils for Au,Ag,As,Pb,Zn, @ $11.00	858.00
13350	12 rocks for Au,Ag,As, @ $9.50	114.00
13351	9 rocks for Au,Ag,Pb,Zn, @ $24.50 (assay)	220.50
	TOTAL	$1223.25

PETROGRAPHIC ANALYSIS

INVOICE 2857	1 thin section @ $6		
	1 reject slice @ $0.75		
	1 k-spar stain @ $1		
	Petrographic report @ $44	TOTAL	$ 51.75

TRANSPORTATION

KEYSTONE HELICOPTERS ATLIN B.C.

FLIGHT REPORT	3528	0.7 hours	August 7
	3540	0.8	10
	3561	0.7	16
FLYING		2.2 hours @ $400/hour	$880.00
FUEL		2.2 hours @ $56/hour	123.20
		TOTAL	$1003.20

TOTAL EXPENDITURE $3530.87

APPENDIX I

SAMPLE DATA SHEETS

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

B.C. GOLD SYNDICATE

NTS 104K/10E

SAMPLER Hughes

PROJECT NEWEX SYNDICATE ~~NW WADE~~, B.C.

LINE Griz 1

DATE Aug. 15/81

AIR PHOTO No. BC 5614 025

	SAMPLE NUMBER	LOCATION	HOST ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS Au.	Ag	Pb	Zn
(1)	67713	GRIZ 1 TRENCH #1	QFP	- sugary, silica replacement - altered rusty breccia frags - colloform quartz vughs						<0.003	0.30	-	-
(2)	67714	GRIZ 1 TRENCH #1	"	- similar to sample 67713						0.038	0.05	-	-
(3)	67715	"	"	- similar to sample 67714						0.138	0.03	-	-
(4)	67716	GRIZ 1 TRENCH #2	"	- fine grained quartz - carbonate replacement - some non replaced rusty QFP blotches remaining			- calcite veining, minor pyrite and galena - manganese stain			<0.003	0.34	0.30	0.6
(5)	67717	GRIZ 1 TRENCH #2	"	- fine lt grey sugary silica replacement with clear quartz blebs - lenses of greyish brown aphanitic quartz - blebs of anhedral pyrite - minor sphal.						<0.003	0.24	0.19	0.5
(6)	67718	GRIZ 1 TRENCH #2	"	- lt grey fine sugary quartz - carbonate replacement - 1 cm veins of cubic galena, dk brown sphalerite and qtz or calcite - blebs of galena - Mn staining - colloform qtz vughs						0.003	2.23	1.78	3.0
(7)	67719	GRIZ 1 TRENCH #3	"	- fine sugary quartz - carbonate replacement between veins (1 cm) with black oxidized galena in centre surrounded by dk brown sphal. - irregular blebs of sphalerite in qtz - carbonate replacement - minor pyrite - Mn staining						<0.003	0.16	0.15	0.1
(8)	67720	GRIZ 1 TRENCH #3	"	- rusty wht fine sugary silica - carbonate replacement between blebs and 0.5 cm veins of blk galena and brown sphal. - lenses of calcite in galena veins - minor blebs of pyrite and arsenopyrite(?) - Mn staining						0.004	0.18	0.16	0.2
(9)	67721	GRIZ 1 TRENCH #4	"	- wht to rusty sugary qtz - carb replacement - the replacement is dk brown sometimes due to the presence of sphal. - 0.5 cm veins of blk galena and bro. sphal. - lenses of calcite - colloform qtz vughs - Mn staining						<0.003	3.38	0.48	0.[illegible]
(10)													
(11)												As	
(12)	67710 B	3W, 3N, GRIZ 3.			qtz bx with py.					<10	0.1	88	
(13)	67711	NW of Griz 3			sil. marc., py					<10	0.1	>500	
(14)	67712	NW of Griz 3			sil. marc.(?) py.					<10	0.1	295	
(15)													
(16)													
(17)													
(18)													
(19)													
(20)													

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

B.C. GOLD SYNDICATE

NTS 104K/10E

SAMPLER J. Cautler

LINE Griz claims and area

PROJECT Newex

DATE Aug 5 — Aug 14

AIR PHOTO No. BC 5614 073 075 025

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS Au.	~~As~~ Ag	~~Sb~~ ~~Ag~~ Hg	
(1)	77493 B	rusty cirque GRIZ 3	altered qfp?	cte veining, Silicification, rusty weath.						✓ <10	✓ 0.2	✓ 6	
(2)	77494	NE side of Frozen Lake GRIZ 3	Silicified zone in qfp	minor cte, rusty			GRIZ 3			✓ <10	✓ 0.1	✓ 7	
(3)	77495	NW of Griz 3	altered qfp.	v. rusty, silicification	abundant py especially on fracture surfaces					<10	0.1	>500?	
(4)	77496	Near 1S on GRIZ 1	altered qfp.	v. rusty	dissem. PY					<10	0.1		
(5)	77497	just east of 1S, GRIZ 1	qtz-carb vein bx - frags of qfp	rusty						110	0.2		
(6)	77498	900 m. S of LCP GRIZ 2	altered qfp	rusty	PY					<10	0.1		
(7)	77499	50 m W of Grove/or 6S GRIZ 3	aphanitic v. grey colour,	silicious, lt. partly colloform qtz	Mn staining					<10	0.4		
(8)	77500 B	GRIZ 1 400S/100E	altered intrusive	- rusty - minor silicific.	minor PY Mn staining					20	0.6		
(9)	25720 C	GRIZ 1	v. silica-rich, rusty surfaces	aphanitic,	PY					<10	0.7	30	
(10)	25721	GRIZ 1	qtz vein	rusty weath		67°/E	10 m above B-127 10 cm wide, in exposure			20	0.4	11	
(11)	25722	GRIZ 1	milky qtz vein	few rusty spots			float in talus, angular with qfp + rusty qfp blds			<10	0.1	5	
(12)	25723	GRIZ 1, W side	silica, cte veins	rusty v altered						50	0.1	6	
(13)	25724	GRIZ 1	qfp, drusy qtz veining	v. rusty altered	abundant py silver-grey mineral,	hardness	angular float from o/c 3m above. 5+ red st → specularite			50	0.5	7	
(14)	25725	GRIZ 1 near top of lge. gully	Sil. qfp. qtz veins 5mm wide xcutting	v. rusty		92°/80°N				<10	0.1	22	
(15)	25726	4m. " above 25725	qtz veins + sil. zone in qfp	v. rusty		76°/90°				<10	0.1	7	
(16)	25727	GRIZ 1 in stream in lge gully	blue-grey qtz vein	rusty - yellow surface	lots PY		float, angular in stream in lge gully, downstream from 25726.			<10	0.1	15	
(17)													
(18)													
(19)													
(20)													

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C GOLD SYNDICATE

SAMPLER J. Pantler

DATE Aug 13/81 – 14/81

PROJECT Newey

NTS 104K/10E

LINE Griz 1, W. side

AIR PHOTO NO. BC 5614 025

SAMPLE NO.	LOCATION	Depth (cm)	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	As	Ag	Pb	Zn
81- NxG B-117	Griz 1	5	B	dk br sl. rusty	fine silty sand	high		~~flat~~ mod.	grass moss	above intr. ote.	<10	10	0.1	18	8
B-118		10	B	rusty dk br	med silty sand	few		flat	—	intr ote near	10	15	0.1	3	7
B-119		5	B	med rusty br	fine sandy silt	mod.		gentle	—	" " "	20	9	0.1	5	7
B-120		7	B-C	v. or-rusty	med sandy, pebbly	none			—	rusty sil, cte, Mn, py intrusive	20	15	0.1	15	6
B-121		3	B	rusty dk br	fine sandy	few		gentle	—		10	9	0.1	3	7
BT-122		10	C	"	fine-coarse pebbly	V. few		flat	—	pyritic intr. float	20	9	0.3	75	2
BT-123		15	C	rusty Or-br.	med-coarse pebbly	few		mod	moss grass bush		<10	14	0.1	72	12
B-124		7	B	med br	fine sandy	"		gentle	"		<10	9	0.1	2	7
B-125		3	B	bright Or	fine	V. few		flat	moss	above intr. ote.	<10	16	0.1	1	7
BT-126		8	B	sl. rusty med br	pebbly med-fine	"		mod	—		10	7	0.1	11	8
B-127		15	B	lt or-Br.	med sandy	few		"	balsam shrubs, trees, weeds		<10	9	0.1	26	10
B-128		7	B	reddish br.	fine pebbly-sand	mod.		~~flat~~ mod.	—	- rusty gfp + gfp talus, one small piece angular 1cm across qtz vein in gfp	<10	20	0.1	34	14
B-129		10	B	rusty dk-br	v. fine	few		flat	—	rusty gfp float.	<10	17	0.1	10	8
BT-130		8	B	rusty or	fine	mod.		gentle	moss	silicious gfp float	<10	57	0.1	9	7
B-131		7	B	med br	fine sandy	mod		"	"	btw LCP + IE	<10	17	0.1	10	9
BT-132		—	B	"	med sandy			mod.	—	diabase float	<10	37	0.1	17	10
BT-133		—	B	med rusty br.	fine	few		gentle	—	above gfp ote.					
B-134		3	B	deep br	"	"		flat	—	" " "	<10	23	0.1	6	8
B-135		—	B	rusty med br	"	mod		mod	moss grass	" " "	<10	11	0.1	4	9
B-136		5	B	deep br.	fine silty sand	few		gentle	some moss	at top of lge gully	<10	19	0.1	5	7
B-137		—	B	rusty deep br	fine	mod		mod	—	near gfp ote.	<10	29	0.1	9	11

J.C. STEPHEN EXPLORATIONS LTD.

B.C. GOLD SYNDICATE

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

Newex

SAMPLER D. KAPICKI / E. SIDEY

DATE AUG. 14 / 1981

PROJECT GRID 1 / SOIL GRID.

NTS 104K/10E

LINE

AIR PHOTO NO. BC 5614 625

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb	Zn
81-NXG1 B	0+00S 0+20E	25 cm.	A	med. brown	silty sand.	mod.		steep down.	—	gfp. talus	20	0.1	19	42	148
81-NXG1 B	0+00S 0+40E	10	A	grey brown	granular sand.	high		"	moss grassy						
81-NXG1 B	0+00S 0+60E	15	A	dark brown	"	mod.		mod.	moss	gfp. float around.	20	0.1	15	31	248
81-NXG1 B	0+00S 0+80E	15	A	black brown	silty sand	high		level	moss flower	" "	10	0.1	14	22	365
81-NXG1 B	0+00S 1+00E	→	No		Sample					Too Organic.	<10				
81-NXG1 B	0+00S 1+20E	15	A	med. brown	silty sand	mod		level	moss pines	plateau	<10	0.1	11	22	76
81-NXG1 B	0+00S 1+40E	18	A	rusty red	granular sand	mod.		level	"	gfp float in hole.	10	0.1	77	52	90
81-NXG1 B	0+00S 1+60E	20	A	med. brown	sandy silt	high		gentle slope.	"		<10	0.1	19	20	155
81-NXG1 B	0+00S 1+80E	20	B	golden brown	granular sand	high		"	"		<10	0.1	14	10	92
81-NXG1 B	0+00S 2+00E	18	B	brown black	sandy	mod.		"	"		<10	0.1	19	10	102
81-NXG2 B-1	B-1 100M INT.	25 cm.	A	light brown	silty sand	mod.		mod. slope	pines grassy	gfp float in hole. -at corner post 25 Griz 2 Claim.	10	0.1	12	5	12
81-NXG2 B-2	B-2	20	A	rich brown	silty sand.	mod.		gentle slope	moss pines	may be frost boil with gfp float	<10	0.1	14	14	8
81-NXG2 B-3	B-3	20	A	dark brown	silty sand.	high		steep slope	"		20	0.1	20	144	19
81-NXG2 B-4	B-4	15	A	dark brown	silty sand.	high		gentle slope	"	slight ridge above gfp talus slope.	10	0.1	12	58	112
81-NXG2 B-5	B-5	16	A	med brown	granular sand	high		gentle slope	"		<10	0.1	12	17	9
81-NXG2 B-6	B-6	20	A	med. brown	granular sand	mod.		gentle slope	"	mean post 15	<10	0.1	14	14	7
81-NXG2 B-7	B-7	30	B	dark brown	fine	mod.		mod. slope	"		<10	0.1	15	23	8
81-NXG2 B-8	B-8	25	B	brownish brown	sandy silty.	mod.		gentle down.	"		<10	0.1	12	2	10
81-NXG2 B-9	B-9	25	A	dark brown	granular sand	mod.		"	"		<10	0.1	15	10	7

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

SAMPLER E. SIDEY / D. KAPICKI

DATE AUG 14 / 1981

PROJECT Newer Griz 1 Soil Grid

NTS 104 K/10E

LINE

AIR PHOTO NO. BC 5614 025

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb.	Zn
81-NXG-B	1+00S 0+20E	15 cm.	B	dark brown	granular sand	mod.		gentle	moss spruce	down hill towards M. Hughes Pb-Zn showing	<10	0.1	17	12	10
81-NXG-B	1+00S 0+40E	16	A	rich brown	sandy	low		"	"	" "	20	0.1	25	2	8
81-NXG-B	1+00S 0+60E	12	A	dark brown	granular sand	mod.		slope on side of gully	"	rusty float with pyrite.	<10	0.1	16	23	11
81-NXG-B	1+00S 0+80E	20	A	med. brown	sandy clay	low		top of gully	"		<10	0.1	41	9	47
81-NXG-B	1+00S 1+00E	10	A	rusty brown	silty sand	low		gentle slope	buck brush	side of slope to gully, qfp float. below is M. Hughes Gold showing.	10	3.8	79	230	17
81-NXG-B	1+00S 1+20E	15	A	dark brown	sand fine.	high		"	moss pines	may be frost boil.	<10	0.1	15	13	10
81-NXG-B	1+00S 1+40E	15	B	dark brown	granular	mod.		level	"	qfp float in hole.	<10	0.1	12	5	7
81-NXG-B	1+00S 1+60E	25	B	black brown	silty sand	high		gentle slope	"	" "	10	0.1	14	19	71
81-NXG-B	1+00S 1+80E	10	A	med. brown	silty sand	mod.		mod.	"	directly above galena showing	<10	0.1	15	7	10
81-NXG-B	1+00S 2+00E	10	A	reddish brown	silty sand	low		gentle down	moss	" "	<10	0.1	27	14	10
81-NXG-B	1+00S 2+20E	20	A	med. brown	"	mod.		"	"	mossy plateau (extension from galena showing)	<10	0.1	23	8	8
81-NXG-B	1+00S 2+40E	40.	B	dark brown	"	low		"	"	" "	<10	0.1	23	8	10
81-NXG-B	1+00S 2+60E	20	A	med. brown	"	"		"	"	" "	<10	0.1	22	100	81
81-NXG-B	1+00S 2+80E	20	B	golden brown	fine sand	low		"	"	" "	10	0.1	22	16	98
81-NXG-B	0+00E 0+00S	10	A	golden brown	fine sand	high		cliff edge	moss balsam	- by talus at edge of qfp outcrop	<10	0.1	20	19	11
81-NXG-B	0+00S 0+20W	5	A	dark brown	granular sand	low		mod. slope	—	upward on large qfp outcrop	10	0.1	12	54	12
81-NXG-B	0+00S 0+40W	8	A	dark brown	"	mod.		steep	—	" "	<10	0.1	10	21	24
81-NXG-B	0+00S 0+60W	10	A	med. brown	"	~~steep~~ mod.		steep	grassy	" "	<10	0.1	36	11	8

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B.C. GOLD SYNDICATE

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

Newer . .

SAMPLER D. KADICKI / E. SIDEY

DATE AUG. 13 / 14

PROJECT GRIZ 1 - Soil Grid

NTS 104K/10E

LINE

AIR PHOTO NO. BC 5614 025

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb	Zn
81-NXG-BT	5+00S 2+00E	10 cm	A	dark brown	fine pebbly	mod.		20°	grass	quart-feldspar-porphory boulders	<10	0.2	63	202	45
81-NXG-B	5+00S 1+80E	15	A	med. brown	"	heavy		"	"	" "	<10	0.3	140	162	62
81-NXG-BT	5+00S 1+60E	15	A	med. brown	"	"		"	"	" "	<10	1.6	500	810	110
81-NXG-BT	5+00S 1+40E	10	A	rusty brown	"	mod.		"	"	" "	<10	0.1	140	350	74
81-NXG-BT	5+00S 1+20E	5	A	brown	"	"		"	"	buff-colored boulders, many qtz	<10	0.1	57	225	44
81-NXG-B	5+00S 1+00E	10	A	brown	silty sand	"		"	"	qfp boulders	10	0.1	77	142	26
81-NXG-B	5+00S 0+80E	20	A	light brown	powdery sand	"		"	"	" "	<10	0.1	17	22	12
81-NXG-B	5+00S 0+60E	30	A	rusty brown	"	"		"	"	" "	<10	0.1	17	41	18
81-NXG-B	5+00S 0+40E	30	A	med. brown	"	"		"	"	" "	20	0.1	12	80	21
81-NXG-B	5+00S 0+20E	20	A	brown	pebbly sand	"		"	None	" "	<10	0.7	15	150	22
81-NXG-BT	0+00E 5+00S	10	A	dark brown	fine pebbly	"		"	spruce cedar	" "	20	0.1	15	138	24
81-NXG-B	0+00E 2+00S	20	A	dark brown	pebbly sand	high		"	balsam	qfp boulders	<10	2.5	340	1450	87
81-NXG-B	2+00S 2+00E	15	A	dark brown	pebbly sand	high		"	grass	" "	<10	0.1	43	62	23
81-NXG-BT	2+00S 1+80E	15	A	"	"	"		"	"	" "	<10	0.1	24	43	16
81-NXG-B	2+00S 1+60E	10	A	buff sand	silty sand	mod.		"	grass balsam	" "	<10	0.1	22	12	10
81-NXG-BT	2+00S 1+40E	10	A	med. brown	"	mod.		"	pine grass	" "	<10	0.1	20	14	15
81-NXG-BT	2+00S 1+20E	10	A	"	"	"		"	"	" "	<10	0.1	9	188	33
81-NXG	2+00S 1+00E	—	—	—	TILL			Average		Highly organic, treed with pines					
81-NXG-BT	2+00S 0+80E	15	A	dark brown	fine sand	mod.		30°	balsam	qfp boulders, bloc	<10	0.1	81	35	16
81-NXG-BT	2+00S 0+60E	15	A	buff.	sandy pebbly	mod		"	"	" "	<10	0.8	180	327	62

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GEOCHEMICAL DATA SHEET – SOIL SAMPLING

Newey

SAMPLER D. KAPICKI / E. SIDEY

DATE AUG 13. / 1981

PROJECT GRIZ I - SOIL GRID

NTS 104 K/10E

LINE

AIR PHOTO NO. BC 5614 025

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb	Zn
81-NXG-BT	2+00S 0+40E	15 cm.	A	grey, brown	Sandy	high		~~plateau flat~~ ↑	grassy	qfp float flows around.	10	1.3	100	325	50
81-NXG-B	2+00S 0+20E	10	A	black	many pebbles	"		steep slope	"	ground balsam, patches of frost boils.	<10	0.9	39	135	65
81-NXG-BT	2+00S 0+20W	5	A	light brown	pebbly	"		" 39°	"	qfp talus.	20	0.4	85	205	49
81-NXG-B	2+00S 0+40W	10	A	brown	sandy silt	mod.		"	"	" "	<10	0.5	35	54	23
81-NXG-BT	2+00S 0+60W	5	A	light brown	pebble sand	low		"	"	" "	20	0.1	12	33	17
81-NXG-BT	2+00S 0+80W	10	A	dark brown	fine sand	high		"	"	taken from o/c of QFP.	<10	0.1	14	14	12
81-NXG-B	2+00S 1+00W	5	A	grey brown	silty sand	mod.		"	pine balsam.	top of qfp outcrop.	<10	0.1	15	14	14
81-NXG-B	1+00S 0+20W	20	A	dark brown	silty sand	mod.		plateau flat.	moss grasses pines.	qfp float abundant and frost boils.	10	0.1	12	1	8
81-NXG-B	1+00S 0+40W	15	B	light brown	"	"		"	"	good profile.	<10	0.1	22	4	10
81-NXG-B	1+00S 0+60W	15	B	dark brown	"	"		"	"	good soils.	40	0.1	12	4	8
81-NXG-B	1+00S 0+80W	20	B	"	"	"		"	"	"	10	0.1	30	17	10
81-NXG-B	1+00S 1+00W	16	A	"	"	"		"	"	near Mikes gold showing.	10	1.6	63	162	24
81-NXG-B	1+00S 1+20W	12	A	"	granular	"		small gully	grassy		<10	0.4	38	80	27
81-NXG-B	1+00S 1+40W	25	A	brown	silty	high		other side of gully	grassy	other side of gully which has qfp cliffs - taken from top of outcrop	10	0.1	12	10	9
81-NXG-B	1+00S 1+60W	20	B	dark brown	silty	mod.		uphill	grassy	taken from base of qfp outcrop.	10	0.1	12	5	10
81-NXG-B	1+00S 1+80W	No	Sample							large tales and abundantly treed, pine roots.					
81-NXG-B	1+00S 2+00W	20	B	dark brown	silty sand	mod		foot of o/c.	grassy	30 m. from NXG B 118 sample.	20	0.1	9	5	90

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GEOCHEMICAL DATA SHEET – SOIL SAMPLING

SAMPLER D. KADICKI / E. SIDEY

DATE AUG. 14/1981

PROJECT SOIL LINE / GRID 2

NTS

LINE

AIR PHOTO NO.

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb	Zn
81-NXG²-B-10	B-10 100 M. Int.	20 cm.	till A	med. brown	sandy	mod.		gentle	pines, moss		<10	0.1	17	11	10
81-NXG²-B-11	B-11	25	B	med. brown	sandy	mod.		gentle	"		<10	0.1	14	6	9
81-NXG²-B-12	B-12	20	A	reddish brown	granular sand	mod.		gentle	"	-start of line going N on Grid 2 and (Emm Posts)	<10	0.1	24	13	10
81-NXG²-B-13	B-13	20	A	blackish brown	silty sand	high		level	grass pines	South side of lake by camp.	<10	0.1	20	5	12
81-NXG²-B-14	B-14	25	A	dark brown	"	"		gentle slope	"	swampy surrounds.	<10	0.1	14	2	71
81-NXG²-B-15	B-15	30	A	dark brown	"	"		"	"		<10	0.1	11	1	6
81-NXG²-B-16	B-16	25	A	med. brown	granular	low		"	"		<10	0.1	19	10	9

APPENDIX II

PETROGRAPHIC DESCRIPTIONS

Specimen : JP-1 FELDSPAR PORPHYRY - GRIZ,

Classification : Trachyandesite (hypabyssal)

Mode :		
	Plagioclase	65-70%
	K-spar	10-15%
	Quartz	5-10%
	Biotite	2%
	Chlorite & carbonate	5%
	Zircon and apatite	tr
	Opaques	5%

Handspecimen : Massive, holocrystalline, grey, medium to fine grained volcanic or hypabyssal rock. The stained block indicates a trachyandesitic to dacitic composition. Small flakes of biotite are macroscopically visible. Small blebs of disseminated pyrite are locally present.

Thin section : Texture : intergranular, medium grained.
Plagioclase occurs as abundant, subhedral to euhedral, randomly oriented laths and a few phenocrysts up to 2.5 mms. long. Carlsbad, albite and periclin twinning are all present. Many crystals are zoned, with compositions ranging from albite (rims) to andesine (cores). The plagioclase is locally a bit altered to saussurite.
K-spar is rather hard to distinguish from quartz in thin section. Both occur as anhedral grains occupying the interstices between plagioclase laths. Quartz loclally contains euhedral apatite inclusions.
Biotite forms subhedral to anhedral flakes up to .8 mms. in size. It is brown pleochroic, locally a bit chloritized and sometimes associated with granular opaques.
Carbonate and chlorite occur together in fine grained, irregular patches of up to 1.5 mms. in size, scattered throughout the rock. These are most likely altered amphiboles. Locally the patches are pseudomorphs after amphibole.
Apatite is present in small amounts, as accessory microlites.
Zircon occurs in trace amounts as small, euhedral microlites (.1 mm. size).
Opaques are present as euhedral granules and aggregates up to .5 mms. Much of this is probably pyrite, which can locally be seen in handspecimen.

APPENDIX III

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Jean Pautler, am a graduate of the Honours Bachelor of Science program at Laurentian University, Sudbury, Ontario, 1980.

I have the following employment experience:-

April 1981 to present Geologist with J.C. Stephen Explorations Ltd. North Vancouver, B.C.

May to October 1980 Geologist with J.C. Stephen Explorations Ltd.

May to August 1979 Assistant geologist with Kelvin Energy Ltd. Calgary Alberta.

May to September 1978 Assistant geologist with the Ontario Geological Survey, Toronto, Ontario

NOVEMBER 1981

JEAN PAUTLER

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

GRIZ 3 MINERAL CLAIM

Map Sheet 104K/10E

Record No. 1413

Latitude: 58°37'N Longitude: 132°38'W

ATLIN MINING DIVISION

B.C.

By

J.M. Pautler

October, 1981

Work done: August 1-15, 1981

By: J.C. STEPHEN EXPLORATIONS LTD.

Funded by: Newex Syndicate

TABLE OF CONTENTS

LIST OF ILLUSTRATIONS

SUMMARY AND CONCLUSIONS

(1) The GRIZ 3 claim consists of 12 units and is located 120 kms southeast of Atlin, B.C.

(2) The claim was staked this year to cover galena-sphalerite mineralization found in silicious veins. Gold and silver values were associated with the Pb-Zn veins.

(3) A crew of two to four people spent 25 man days on the property between July 30 and August 15, 1981.

(4) The claim consists of a large Tertiary quartz feldspar porphyry body which intrudes sediments of Jurassic age. The property has been mapped at a scale of 1:31,680 on an air photo.

(5) Detailed mapping of the mineralized outcrop was conducted at a scale of 1:300 and individual vein zones were mapped at 1:50.

(6) A total of 69 chip samples were taken across the zones and all were analyzed for Au and Ag and also for Pb and Zn where galena and sphalerite were visible. Anomalous results ranging up to 0.194 oz/ton Au, 16.97 oz/ton Ag, 8.29% Pb and 6.72% Zn were obtained.

(7) A soil/talus grid consistingof 41 samples was established to trace the extent of the veins. Two anomalous samples were returned. A talus line at the base of the showing and adjacent outcrop area returned no significant values.

(8) The prospecting and reconnaissance sampling program was limited this year and was so far unsuccessful. The only even slightly anomalous sample was from the far west part of the same northwest striking ridge which contains the mineralization. A total of 6 soils and 3 rocks were collected in this program.

(9) Enlargement of the present soil/talus grid and an E.M.-16 survey on this grid is proposed for the 1982 program in an attempt to determine the actual extent of the veins. Additional talus lines at the base of the ridge are also recommended. Detailed mapping of the property at 1:2500 and additional prospecting and sampling should be conducted. Trenching of the highly anomalous soil sample at 2+00E,0+20S. is warranted.

INTRODUCTION

The GRIZ 3 claim consists of 12 units. It was staked in July, 1981 on the basis of anomalous silver, lead and zinc lithogeochemical results in samples taken earlier in the season. The silver results were obtained from galena-sphalerite veins in a large outcrop in the southeast section of the property. Thus, subsequent field work, carried out in August, 1981, involved detailed geological mapping of the outcrop and veins, at a scale of 1:300 and 1:50 respectively. Geological mapping of the property at a scale of 1:31,680 was also conducted and further prospecting was carried out on the entire property. A total of 42 soil, 23 talus, and 72 rock samples were collected for geochemical analysis.

The claim is immediately south of the Taku Plateau within the Coast Mountains.

The topography of the claims themselves consists of a large plateau area with scattered outcrop at an elevation of approximately 5,000 feet. Three steep ridges and a large cirque, on the property, provide good rock exposure. A northwest trending valley cuts the southwest portion of the claim.

Vegetation is sparse on the plateau region and consists entirely of grass and moss. The southwest corner is covered by patches of thick balsam trees and shrubs.

Drainage on the claim is generally poor. The northwest trending valley is extremely swampy and is fed by a few small creeks. Small snow-fed creeks and ponds on the plateau dry up in mid-summer. There are two well developed easterly draining creeks that drain this area.

CLAIMS REGISTER

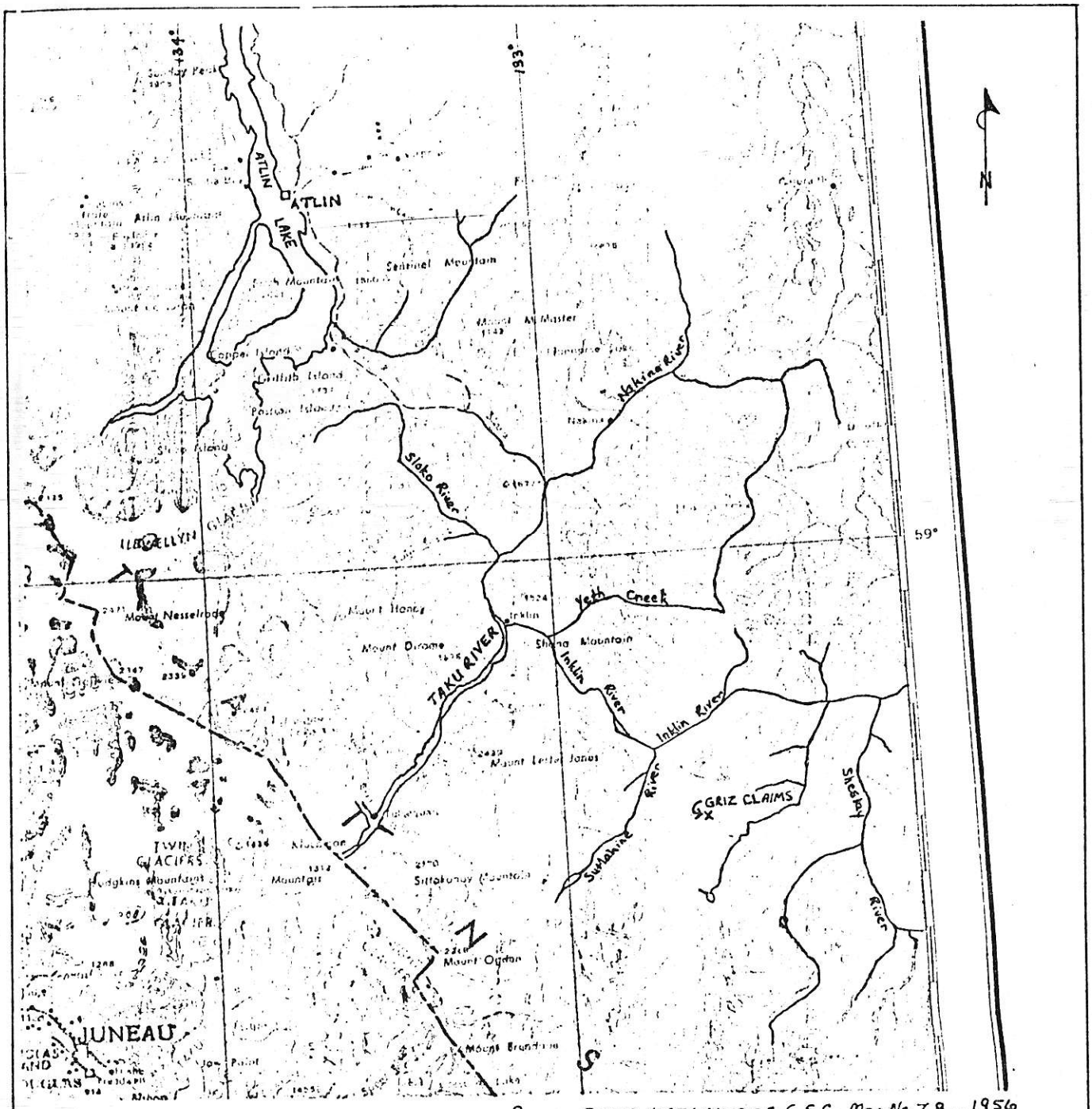
Claim	Record Number	Record Date
GRIZ 3	1413	Aug. 14, 1981

LOCATION AND ACCESS

The GRIZ 3 claim, (Tulsequah-Juneau map sheet 104K/10E), is located approximately 15 kms north of Trapper Lake, which is 132 kms southeast of Atlin, B.C. (Refer to Figure 1). Latitude and longitude are $58^{o}37'N$ and $132^{o}38'W$.

Adjoining the GRIZ 3 claim on the east side is Chevron's 20 unit EMU claim which was staked two weeks prior to GRIZ 3. (Figure 2).

Access to the property is by helicopter from Atlin or Dease Lake.



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NEWEX SYNDICATE

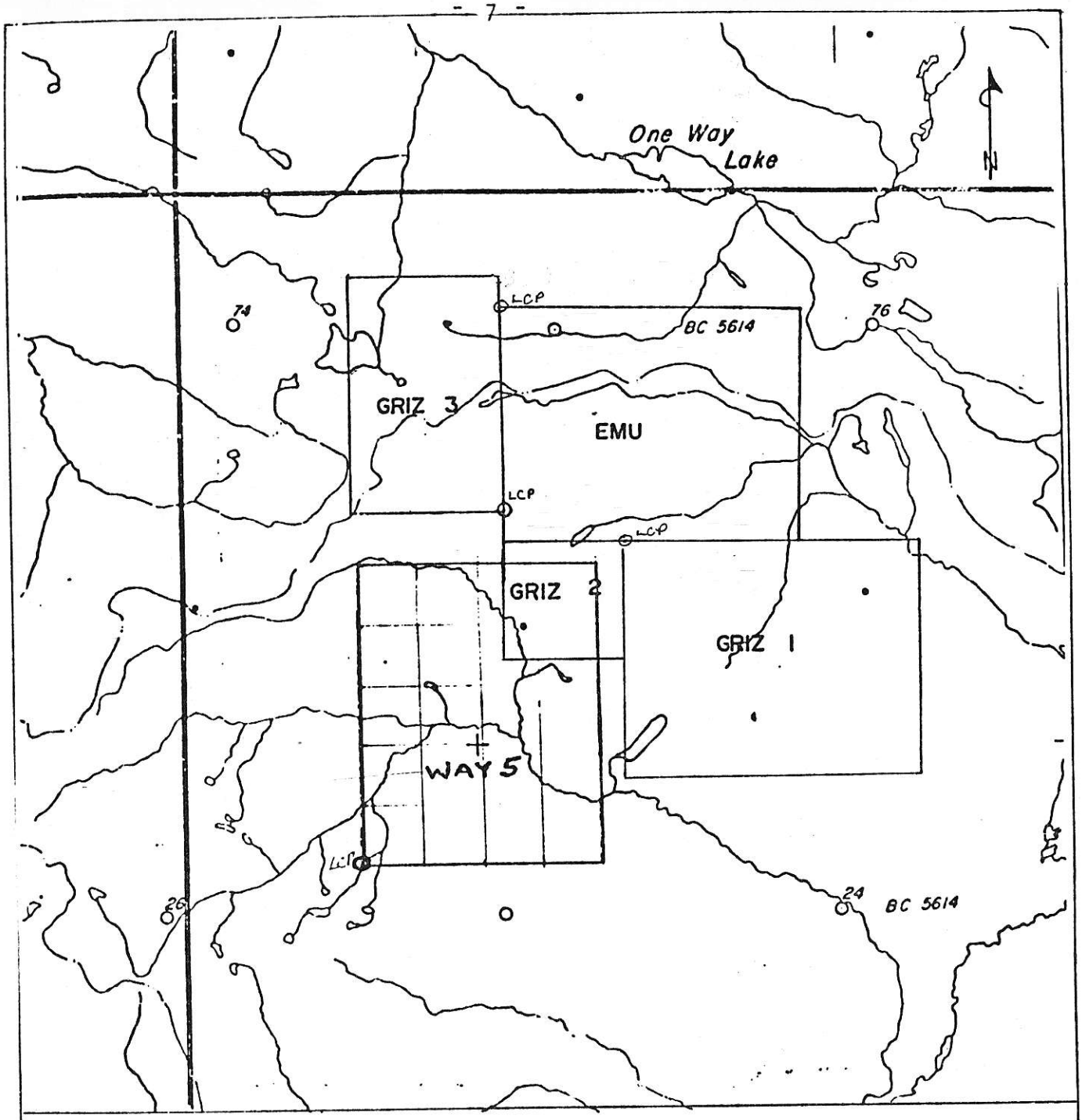
GRIZ CLAIMS

NTS 104K/10E

LOCATION

SCALE 1:1,000,000

FIGURE 1



CLAIMS SURVEYED by TOPOCHAIN and COMPASS.

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NEWEX SYNDICATE

GRIZ CLAIMS

NTS 104K/10E

CLAIM MAP

0 0.5 1.0 kms.

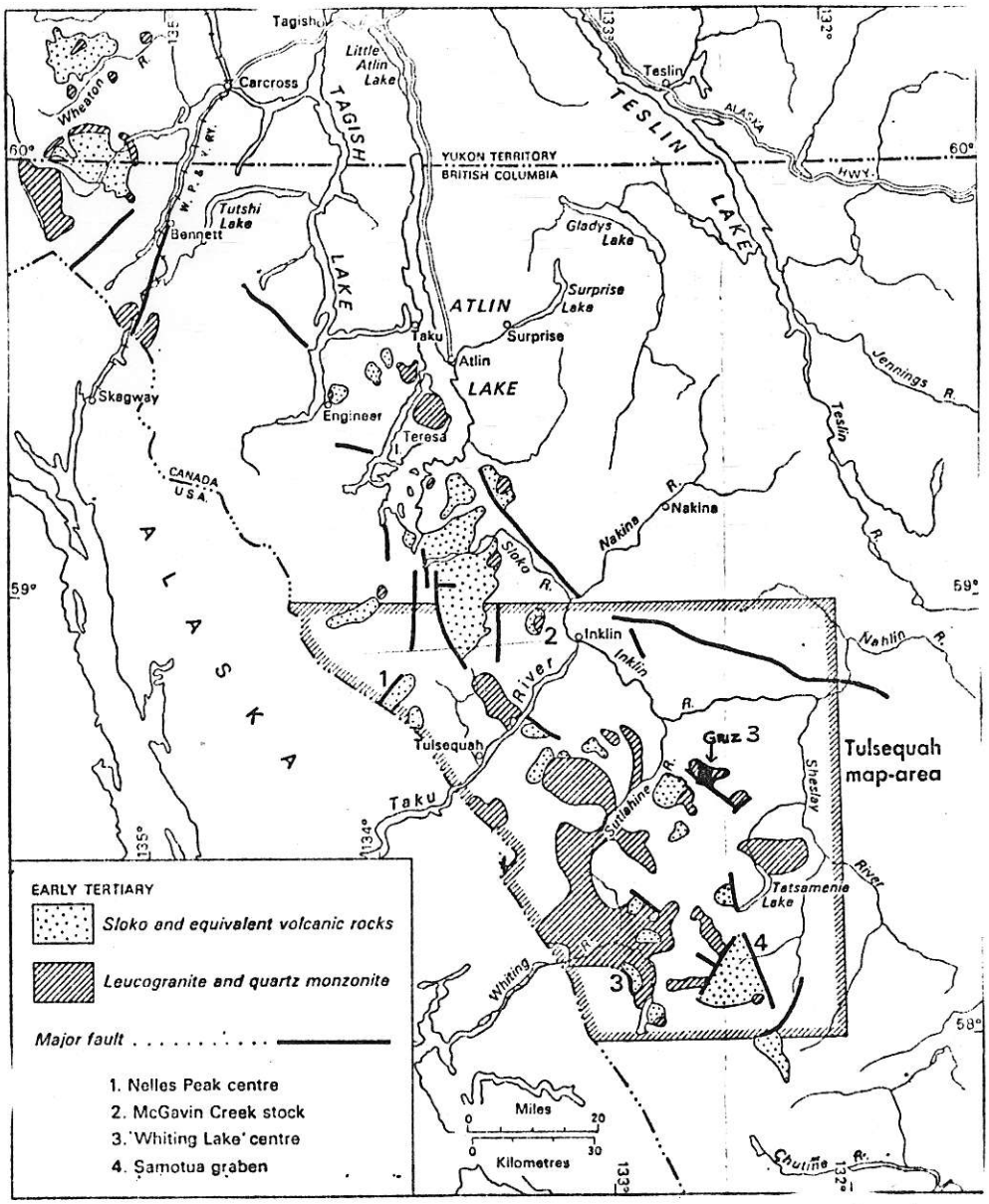
SCALE 1:50,000

FIGURE 2

REGIONAL GEOLOGY

The Geological Survey of Canada has mapped the geology of the Tulsequah area at a scale of 1:250,000. This mapping is published as Map 1262 A, Tulsequah and Juneau map sheet 104K.

The GRIZ 3 claim is situated in an area of a late Cretaceous to early Tertiary quartz feldspar porphyry intrusion which is one of many that form a west-northwesterly trending belt extending from Trapper Lake to Yonakina Mountain. These intrusive bodies are in close spatial association with the Sloko volcanic rocks of the same age, which are limited to a larger northwesterly trending belt along the eastern edge of the Coast Mountains. Figure 3 shows the distribution of the Sloko volcanic rocks and related intrusions within the Tulsequah map area. The Sloko Group volcanic rocks are of interest due to the number of Au occurrences found associated with them. Of additional interest is the major fault which truncates the southwestern part of the GRIZ 3 intrusion.



from G.S.C. Memoir 362, 1961, P 29.

J. C. STEPHEN EXPLORATIONS LTD.

NEWEX SYNDICATE

GRIZ CLAIMS

NTS 104K/10E

DISTRIBUTION of SLOKO VOLCANIC ROCKS

SCALE: 1:1900800

0 kms. 30

FIG. 3

PROPERTY GEOLOGY

Geological mapping of the GRIZ 3 property, shown in the back pocket on Map I, revealed three rock units.

Rock Types

Unit 3 - Quartz Feldspar Porphyry

Almost the entire property consists of the late Cretaceous to early Tertiary quartz feldspar porphyry body which is extremely variable in compostion. It is fine-grained to aphanitic, porphyritic with mainly plagioclase phenocrysts and less commonly quartz phenocrysts and occurs with or without biotite and hornblende. On the GRIZ 3 property, the quartz feldspar porphyry would be more properly designated a feldspar porphyry. The colour varies from light grey to mauve and pink, but is most commonly green, Minor pyrite is common.

A thin section of the quartz feldspar porphyry was prepared and petrographically analyzed by Vancouver Petrographics Ltd., Fort Langley, B.C. The specimen, (JP-2), was found to be of trachyandesitic composition and of effusive nature, although field relationships suggest a hypabyssal origin. The petrographic description is provided in Appendix II.

Unit 2 - Diabase Dykes

Diabase dykes up to a few metres across cut the feldspar porphyry. The diabase is fine grained and green in colour. Minor pyrite is sometimes present.

Unit 1 - Sedimentary Rocks

The southwestern part of the intrusion appears to be in fault contact with a chert pebble conglomerate of the lower and/or middle Jurassic Takwahoni Formation. The conglomerate is green, chloritic and has chert pebbles from a few millimetres to 10 millimetres in size. A small outcrop of Takwahoni Formation black, rusty shale is also present in the centre of the claim.

Structure

As already mentioned, a major northwest trending fault truncates the southwestern edge of the quartz feldspar porphyry. Three sets of air photo linears, which trend northerly, northwesterly and easterly, are also evident throughout the intrusion and may represent minor fault and fracture systems. A fault, represented by a northerly striking gully, appears to offset the mineralized veins which trend easterly to northeasterly.

Mineralization

As illustrated in Figure 4, six vein zones have been outlined that contain veins of galena-sphalerite mineralization. The zones are defined by an altered recessive area, containing mineralized veins, between relatively unaltered walls of the feldspar porphyry host rock. This is illustrated in Photo 1 which shows part of Zone 5.

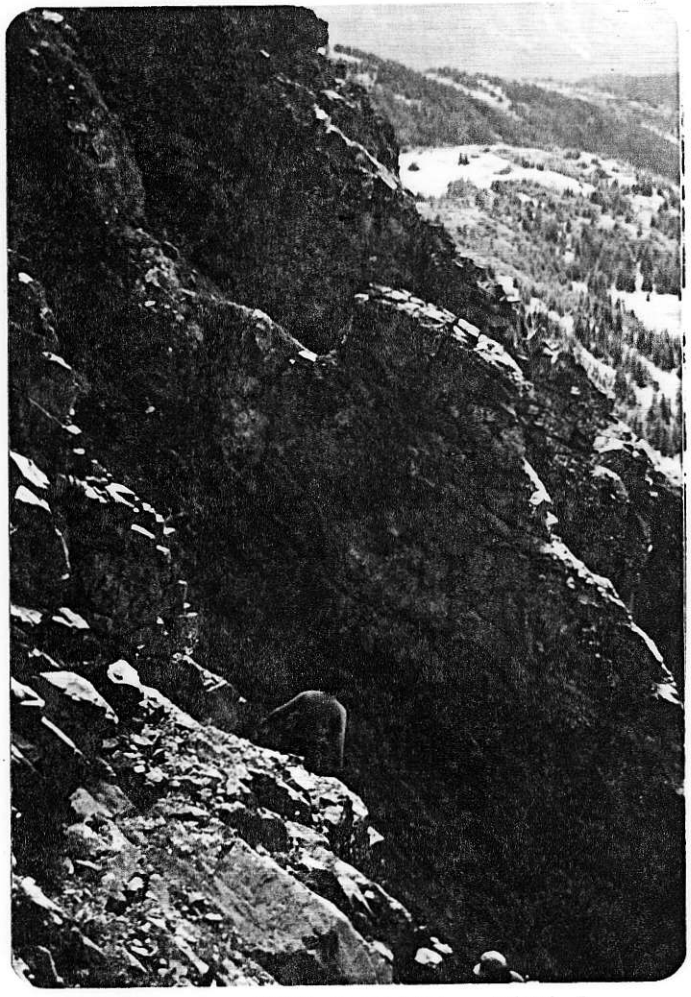


PHOTO 1: GRIZ 3 CLAIM ZONE 5

The zones appear to be offset by a left-lateral fault. However, since it is difficult to directly correlate them, each will be referred to as a distinct zone.

The outcrop in which the veins occur is strongly fractured with many faults and joints. (Photo 1) The feldspar porphyry is rusty in the general area of mineralization but is altered almost beyong recognition within the vein zones themselves. Sphalerite-calcite veins are abundant throughout the outcrop, especially in the vicinity of the mineralized zones.

Generally, the zones trend 75 - 90° and dip 85°S to 85°N. On the west side of the gully, they extend for approximately 5-8 m before being covered by overburden after which the veins could not be traced despite good rock exposure less than 20 m away. On the east side of the fault gully, the veins continue for about 20 m before they disappear beneath overburden. Although the zones do not entirely match, minor vertical displacement along the fault would account for any discrepancies. The left-lateral movement appears to be approximately 12 m.

Each zone contains at least one larger vein, usually on the hanging wall side, and often another vein along the footwall side. Smaller veins and veinlets, from a few millimetres to 10 cms cut the very altered quartz feldspar porphyry that lies in the centre of the zone. The galena-sphalerite mineralization occurs as bands and disseminations and is generally restricted to that part of the vein immediately adjacent to the wall of the zone. Minor pyrite and arsenopyrite are also present and are spatially associated with the galena and sphalerite.

Alteration

Most of the rock within the zones is Mn stained. The veins themselves exhibit more intense Mn staining and the smaller veins and veinlets in the central region of the zones are so extensively altered and Mn stained that only a black, extremely soft 'clayey' material remains. Rusty remnant fragments of quartz feldspar porphyry are contained within this black material.

The altered feldspar porphyry exhibits limonitic and calcarious alteration. Plagioclase biotite and amphibole

phenocrysts have been altered to clay minerals, white mica, limonitic calcite and opaque minerals. A petrographic description of this rock (JP-3) is provided in Appendix II.

The veins themselves also show limonitic and calcareous alteration and silicification. Remnants of an original porphyritic texture are evident in thin section. Several stages of deformation have occurred which include an early stage of brecciation and mylonitization followed by several periods of fracturing. The petrographic analysis outlined the following events:

1. early quartz veining and probably silicification as well as introduction of ore minerals
2. calcite veinlets which remobilized some of ore minerals
3. late chalcedony veinlets and some brecciation and fracturing resulting in an almost cataclastic fabric
4. late fracturing offsetting stage 3 structures.

From field observation as well as petrographic analysis, it appears that the sphalerite was commonly remobilized in stage 2 resulting in the abundant calcite-sphalerite veins proximal to the vein zones and mineralization.

The petrographic descriptions of the vein material is outlined in Appendix II. Specimen numbers are JP-5, JP-6, G-1, G-2. Both G-1 and G-2 are highly mineralized samples.

Please insert

Embedded Map(s)

Here.

Description of Veins - GRIZ 3 Showing

The following is a description of individual veins as numbered in Figure 4:

1. barren coarse-grained calcite vein - 1 cm wide
2. barren coarse-grained calcite vein - 2 cm wide
3. barren coarse-grained calcite vein - 3 cm wide
4. barren coarse-grained calcite vein - 3.5 cm wide
5. calcite vein 1/4 cm wide
6. calcite vein 2 cm wide, 3-4' long
7. Calcite vein, exact orientation unknown
8. rusty calcite vein 1 cm wide
9. vein Zone 1; 75-90 cm wide; 20 cm of abundant galena on footwall side with minor sphalerite, silicification, followed by 50 cm of highly altered 'gungy' black Mn stained and rusty orange vein material towards hanging wall side; last rock adjacent to footwall of vein is slightly Mn stained and rusty quartz feldspar porphyry fragments
10. quartz-calcite vein 1 cm wide
11. silicious vein material, some calcite, Mn stained, rusty quartz-feldspar porphyry fragments, 30 cm wide
12. Mn-quartz feldspar porphyry breccia vein 15 to 18 cm wide with small calcite vein in centre; maximum width of vein 40 cm with less Mn breccia and more calcite
13. same as 12. only 15 cm wide
14. vein material with heavy Mn staining, rusty quartz feldspar porphyry fragments, associated with silicification, some irregular calcite veins
15. same as 14., 50 cm wide
16. 3 cm wide calcite vein surrounded by silicified, Mn stained, rusty vein material
17. footwall vein in vein Zone 4; 30 cm wide, very silicious, Mn stained, rusty quartz feldspar porphyry fragments
18. rusty sphalerite vein 2 cm wide
19. sphal-calcite vein 3 cm wide
20. vein zone about 3 m wide (refer to sketch of Zone 5)

21. hanging wall vein of Zone 5; 40-45 cm wide at base, heavily Mn stained, rusty quartz feldspar porphyry fragments, 2.5 cm of quartz rich vein material towards centre; minor quartz-carbonate veining, calcite veins

22. vein from footwall to hanging wall; 15 cm of black Mn stained breccia, rusty quartz feldspar porphyry fragments, very altered followed by 30 cm quartz-calcite vein, heavily Mn stained, buff weathering, resistant, with 5 cm quartz feldspar porphyry in centre of vein, followed by 5 cm of black Mn stained breccia

23. rusty calcite vein 15 cm wide with Mn-silica vein material

24. two veins; north vein 4 cm wide surrounded by Mn staining; south vein 15 cm wide Mn-silica, minor calcite in centre

25. rusty, Mn-breccia veins.

Legend for Figures 5 to 10

 Quartz Feldspar Porphyry

 Mn staining

 Silicification

 vein with rusty quartz feldspar porphyry fragments

 galena, sphalerite mineralization

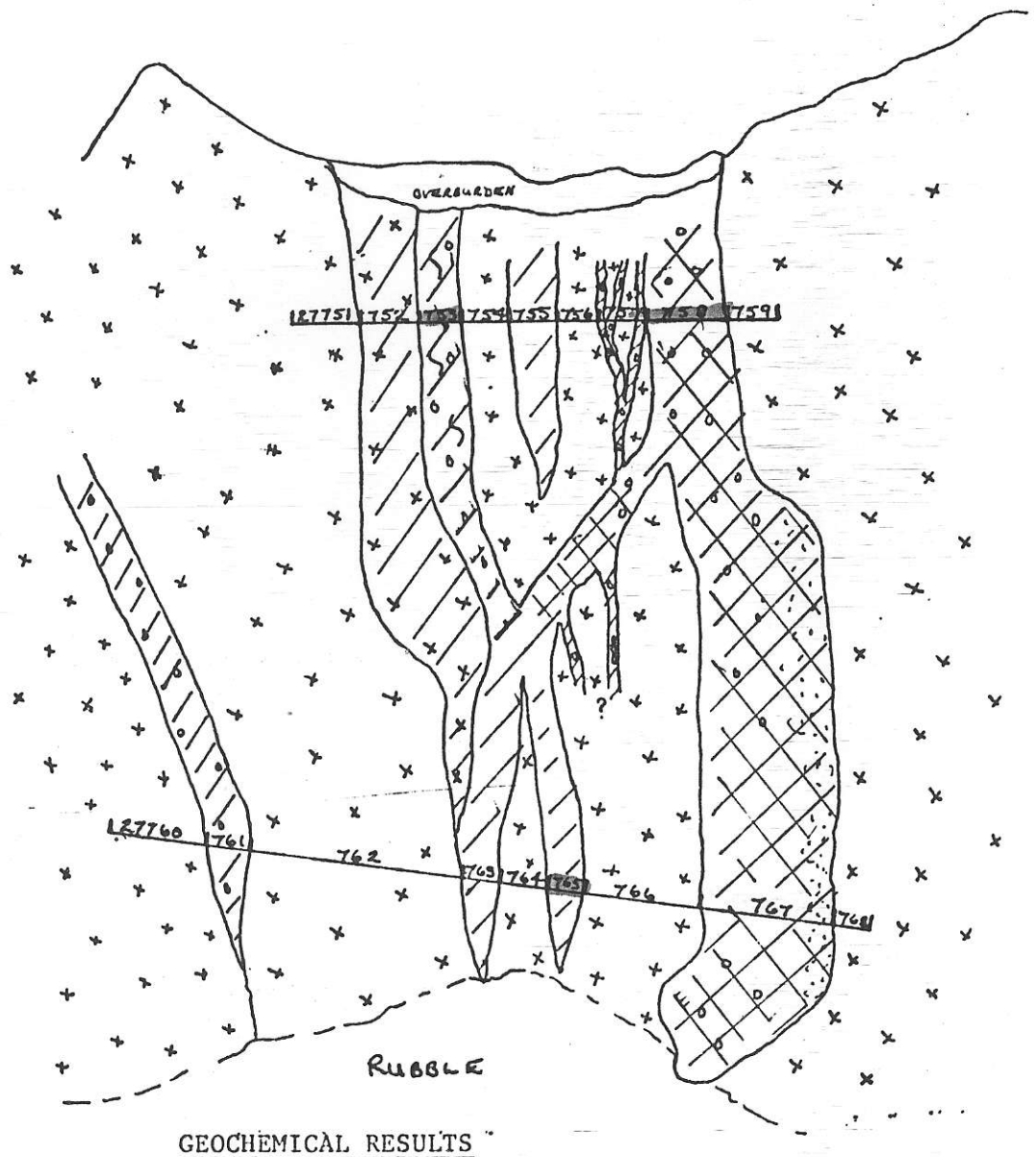
 calcite stingers

Symbols

27760, 761 - chip sample locations

(<10,8.1) - Au ppb, Ag ppm, rock geochemistry results

(0.010, 1.46, 0.54, 1.22) (Au, Ag oz/ton; Pb,Zn%)
assay results



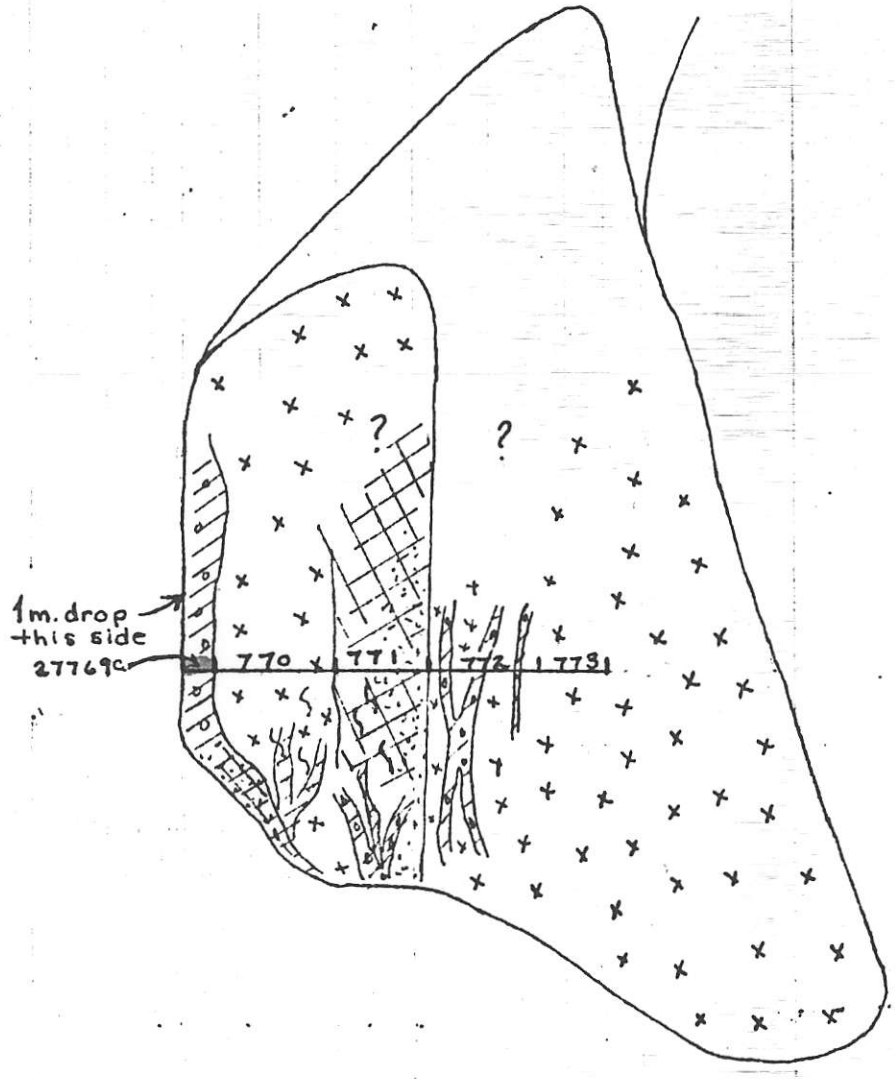
GEOCHEMICAL RESULTS

27751 C	(<10,0.8)	27760 C	(<10,0.2)
27752 C	(<10,0.2)	27761 C	(<10,4.5)
27753 C	(10,2.5)	27762 C	(<10,0.3)
27754 C	(<10,0.6)	27763 C	(<10,2.1)
27755 C	(<10,1.1)	27764 C	(<10,0.4)
27756 C	(10,0.4)	27765 C	(20,2.7)
27757 C	(<10,1)	27766 C	(<10,0.7
27758 C	(<10,2.4)	27767 C	(0.010,5.98,3.46,4.19)
27759 C	(<10,0.4)	27768 C	(<10,0.9)

0 0.5 1.0
METRES

J.C. STEPHEN EXPLORATION LTD.
NEWEX SYNDICATE
GRIZ 3 CLAIM GROUP
N.T.S. 104K/10E
GEOLOGY & GEOCHEMISTRY
PLAN of ZONE 1
SCALE: 1:50 AUG., 1981

FIGURE 5



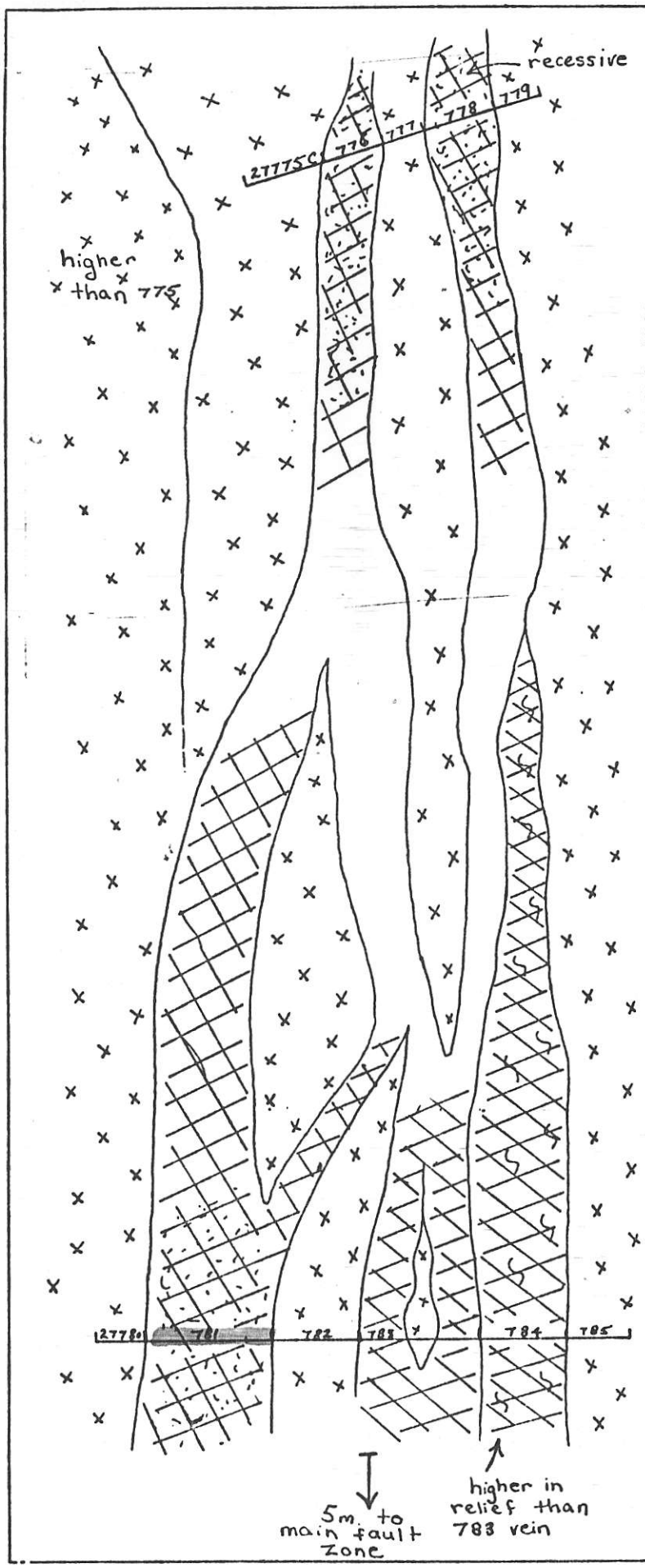
GEOCHEMICAL RESULTS

27769 C (20, 1.9)
27770 C (<10, 0.9)
27771 C (0.194, 1.46, 0.54, 1.22)
27772 C (<10, 1.7)
27773 C (<10, 0.2)

0 0.5 1.0
METRES

J. C. STEPHEN EXPLORATION LTD.
NEWEX SYNDICATE
GRIZ 3 CLAIM GROUP
NTS 104K/10E
GEOLOGY & GEOCHEMISTRY
PLAN of ZONE 2
SCALE: 1:50 AUG, 1981

FIGURE 6



GEOCHEMICAL RESULTS

27775 C (<10,0.2)
27776 C (<0.003,1.15,1.14,1.43)
27777 C (<10,0.5)
27778 C (0.004,1.93,0.87,4.43)
27779 C (<10,0.2)

27780 C (<10,0.1)
27781 C (<0.003,0.22,0.21,0.54)
27782 C (<10,0.5)
27783 C (<10,1.2)
27784 C (<10,0.7)
27785 C (<10,0.2)

0 0.5 1.0

J.C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

GRIZ 3 CLAIM GROUP

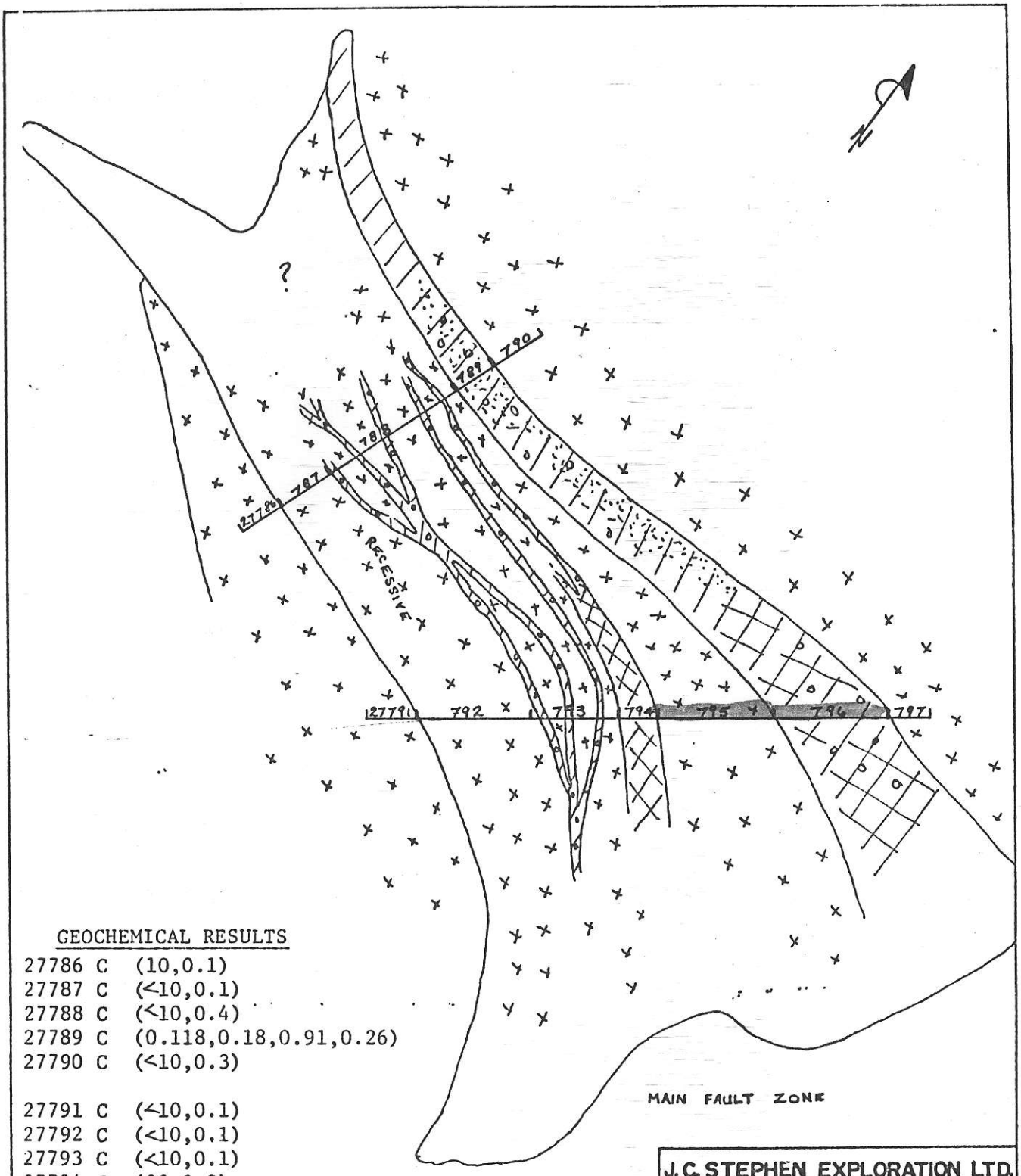
NTS 104K/10E

GEOLOGY & GEOCHEMISTRY

PLAN of ZONE 3

SCALE: 1:50 AUG., 1981

FIGURE 7



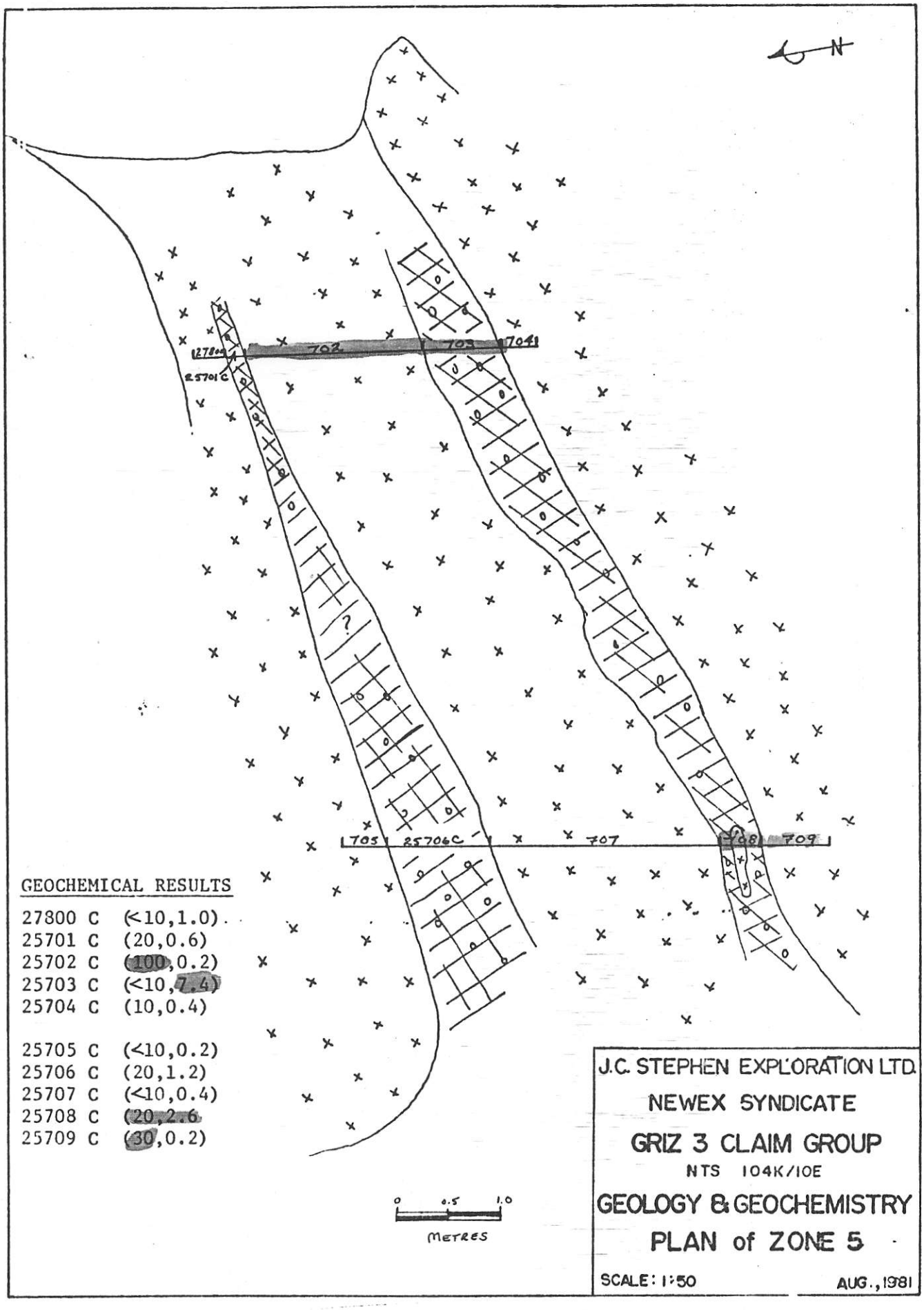
GEOCHEMICAL RESULTS

27786 C (10,0.1)
27787 C (<10,0.1)
27788 C (<10,0.4)
27789 C (0.118,0.18,0.91,0.26)
27790 C (<10,0.3)

27791 C (<10,0.1)
27792 C (<10,0.1)
27793 C (<10,0.1)
27794 C (20,0.3)
27795 C (<10,9.0)
27796 C (<10,2.0)
27797 C (<10,0.2)

J.C. STEPHEN EXPLORATION LTD.
NEWEX SYNDICATE
GRIZ 3 CLAIM GROUP
NTS 104K/10E
GEOLOGY & GEOCHEMISTRY
PLAN of ZONE 4
SCALE 1:50 AUG, 1981

FIGURE 8



GEOCHEMICAL RESULTS

27800 C	(<10,1.0)
25701 C	(20,0.6)
25702 C	(100,0.2)
25703 C	(<10,7.4)
25704 C	(10,0.4)
25705 C	(<10,0.2)
25706 C	(20,1.2)
25707 C	(<10,0.4)
25708 C	(20,2.6)
25709 C	(30,0.2)

J.C. STEPHEN EXPLORATION LTD.
NEWEX SYNDICATE
GRIZ 3 CLAIM GROUP
NTS 104K/10E
GEOLOGY & GEOCHEMISTRY
PLAN of ZONE 5
SCALE: 1:50 AUG., 1981

FIGURE 9

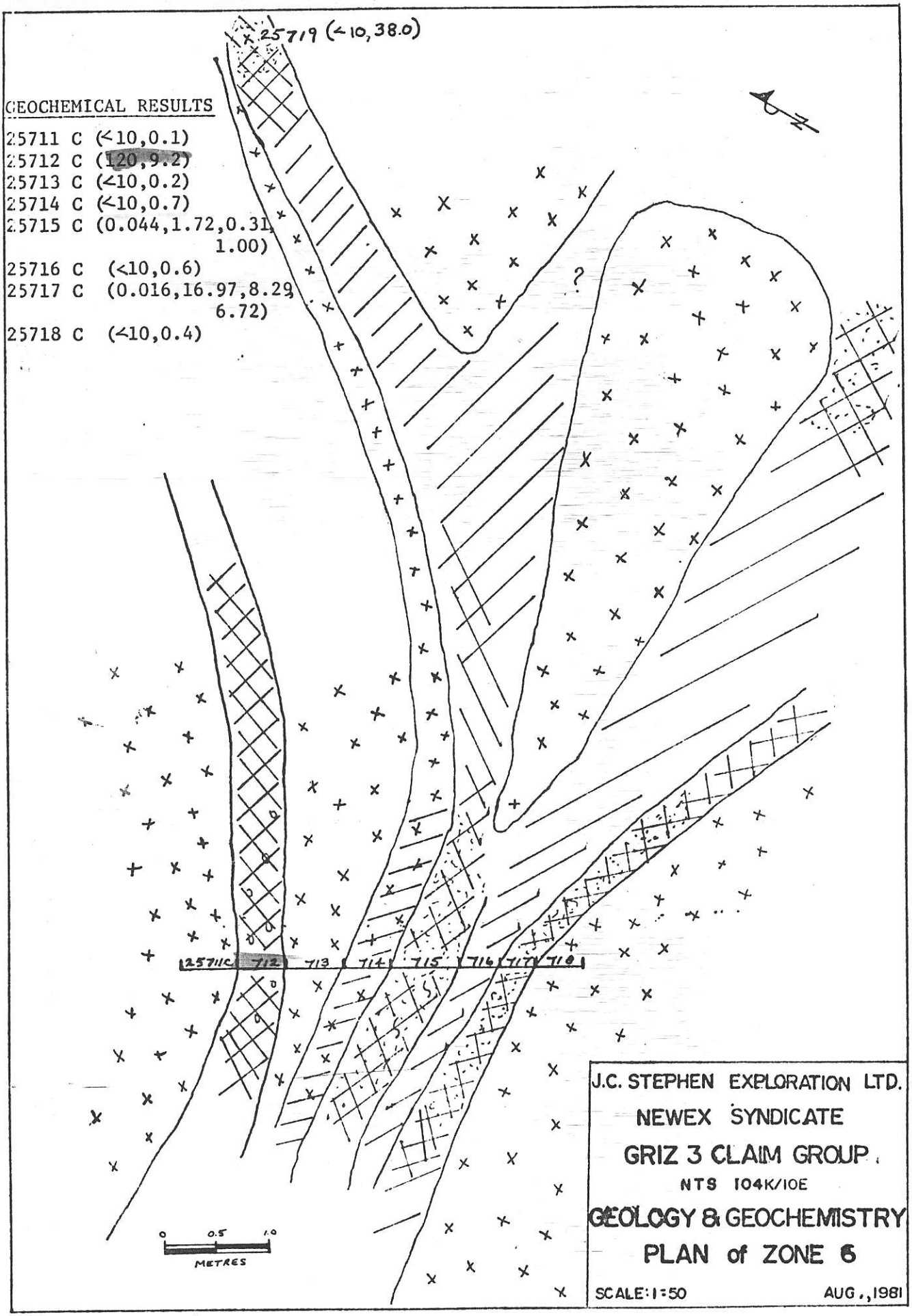

25719 (<10, 38.0)
GEOCHEMICAL RESULTS
25711 C (<10,0.1)
25712 C (120,9.2)
25713 C (<10,0.2)
25714 C (<10,0.7)
25715 C (0.044,1.72,0.31, 1.00)
25716 C (<10,0.6)
25717 C (0.016,16.97,8.29, 6.72)
25718 C (<10,0.4)
?
25711C
712
713
714
715
716
717
718
0 0.5 1.0
METRES
J.C. STEPHEN EXPLORATION LTD.
NEWEX SYNDICATE
GRIZ 3 CLAIM GROUP.
NTS 104K/10E
GEOLOGY & GEOCHEMISTRY
PLAN of ZONE 6
SCALE: 1:50
AUG., 1981

FIGURE 10

GEOCHEMISTRY

Soil and Talus:

A topochain and compass grid was established on the east side of the showing in an attempt to determine the extent of the mineralized veins. The baseline was run parallel to the majority of the veins. Samples were taken at 20 m intervals along crosslines 100 m apart. A total of 36 soil samples and 5 talus samples were collected on the grid. All samples were analyzed for Au, Ag, As and Zn and some were also analyzed for Pb.

A talus line was run at the base of the outcrop in which the showing is located. Eighteen samples were taken at intervals of 25 m, where possible, and analyzed for Au, Ag, As, Pb and Zn.

Reconnaissance soil and talus samples were collected throughout the claims.

Method

The soil samples were collected from the 'B' horizon at depths of 3 to 32 cm, using a grubhoe or rock hammer. Samples were placed in waterproof Kraft bags and sent to base camp where they were dried and sifted to 35 mesh. The samples were then sent to Chemex Labs, 212 Brooksbank Avenue, North Vancouver, B.C. for analysis. In the lab, the soils were first pulverized to 100 mesh. The gold content in ppb was determined by aquaregia digestion and chemical extraction followed by atomic absorption. Ppm, Ag and As were determined by perchloricnitric acid digestion and atomic absorption analyses.

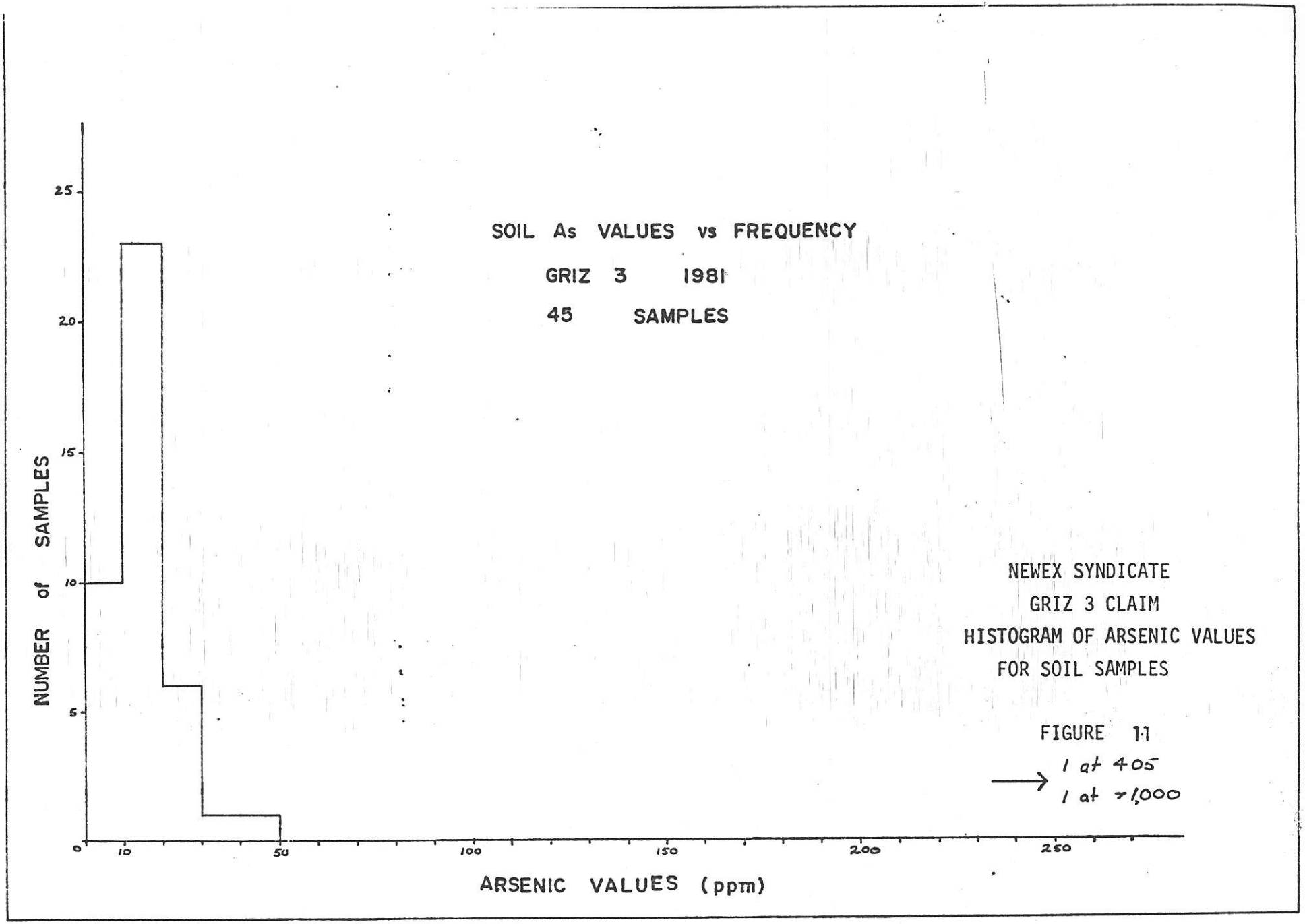
Results

One highly anomalous soil result was obtained from the soil/talus grid east of the showing. The results were 80 ppb Au, 42.0 ppm Ag, >1000 ppm As, 3000 ppm Pb and 1900 ppm Zn. The sample is 200 m east of the showing along the trend of the exposed veins. No other Au results greater than 20 ppb were returned from the grid. A 250 ppm Zn value was associated with a high As value of 405 ppm. This sample was taken at 0+00E/0+20N on the soil/talus grid and is directly above the galena-sphalerite veins in the showing.

A histogram of As results is illustrated in Figure 11 The distribution does not indicate any further anomalous values.

The distribution of Zn results in the histogram shown in Figure 12, indicates another anomalous Zn value. The sample ran 198 ppm Zn, 21 ppm Pb and 25 ppm As and was taken below the rock exposure on the far west part of the northwest striking ridge which contains the mineral showing.

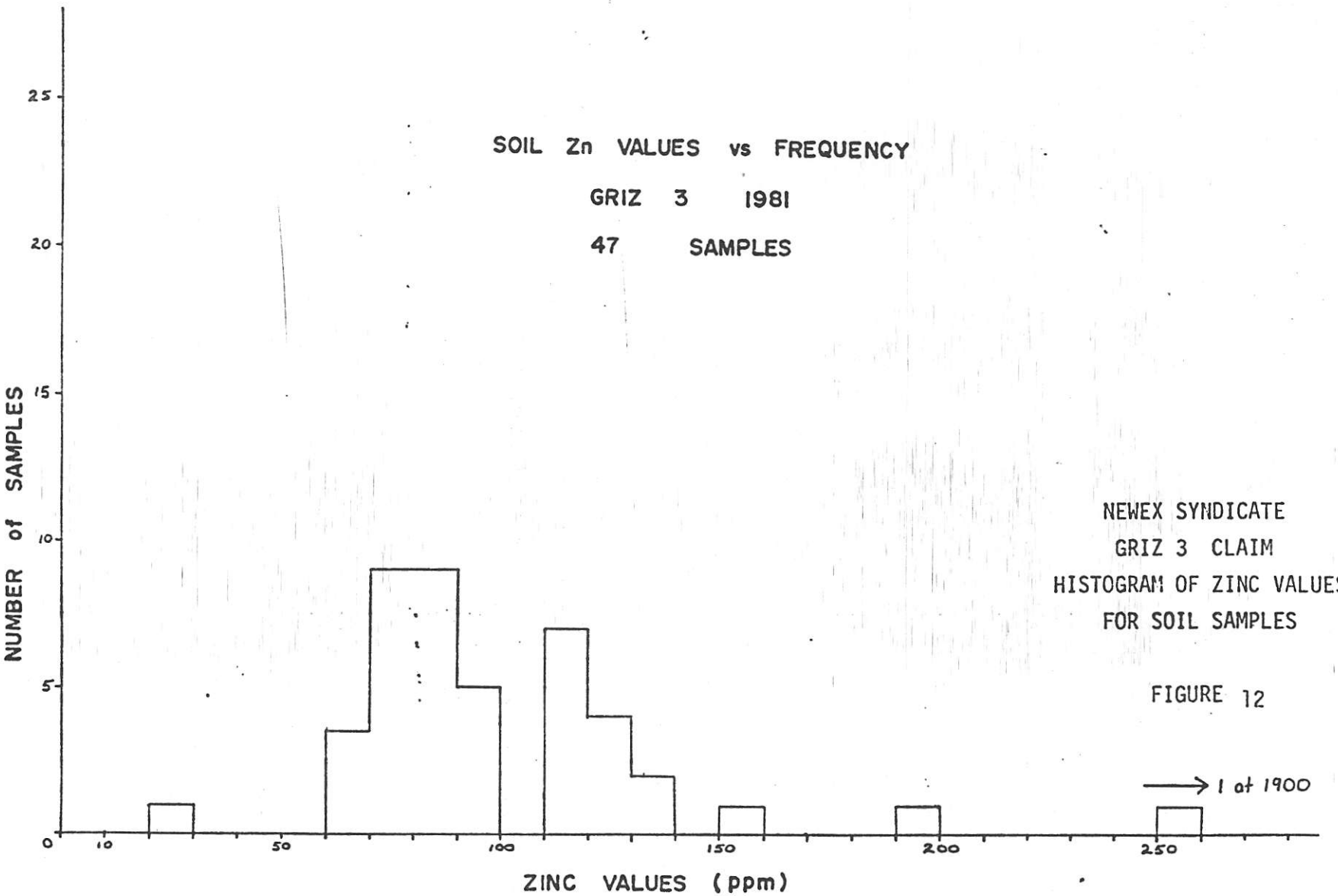
No anomalous results were obtained from the talus line. All sample results are plotted on Map I in the back pocket of this report.



NEWEX SYNDICATE
GRIZ 3 CLAIM
HISTOGRAM OF ARSENIC VALUES
FOR SOIL SAMPLES

FIGURE 11

→ 1 at 405
1 at 1,000



NEWEX SYNDICATE
GRIZ 3 CLAIM
HISTOGRAM OF ZINC VALUES
FOR SOIL SAMPLES

FIGURE 12

Rock

A total of 69 chip samples were taken across the galena-sphalerite veins in the showing. The samples included the relatively fresh wallrock, the altered host rock and the vein material. The sample locations and geochemistry and assay results are shown in Figures 5 to 10. Chip samples, showing no mineralization, were geochemically analyzed for Au and Ag. Those which showed galena-sphalerite mineralization were assayed for Au, Ag, Pb and Zn.

Results

There were six samples that ran 0.010 oz /ton Au or greater. These values were 0.194, 0.118, 0.044, 0.016 and two 0.010 oz/ton Au, and were restricted to the vein material with visible galena-sphalerite mineralization.

The highest Au values correspond to high Ag results, but a direct correlation does not seem to exist. The 0.016 oz/ton Au assay was associated with 16.97 oz/ton Ag, 8.29% Pb and 6.72% Zn, whereas the sample that ran 0.194 oz/ton Au ran 1.46 oz/ton Ag, 0.54% Pb and 1.22% An. Some of the high Ag values did not have anomalous Au values associated with them at all.

The assay results from the veins are tabulated below:

Sample	Au (oz/ton)	Ag (oz/ton)	Pb (%)	Zn (%)
27767 C	0.010	5.98	3.46	4.19
27771 C	0.194	1.46	0.54	1.22
27774 C	0.010	0.10	0.07	0.05
27776 C	0.003	1.15	1.14	1.43
27778 C	0.004	1.93	0.87	4.43
27781 C	0.003	0.22	0.21	0.54
27789 C	0.118	0.18	0.91	0.26
25715 C	0.044	1.72	0.31	1.00
25717 C	0.016	16.97	8.29	6.72

Initial grab samples from the showing returned the following results:

Sample	Ag	Pb	Zn
73845 B	14.62 oz/ton	5.64%	6.72%
78848 B	100 ppm	>10,000 ppm	>10,000 ppm
78847 B	8 ppm	1,800 ppm	3,800 ppm

The Au and Ag values are closely related to the Pb-Zn mineralization. The chip samples which were geochemically analyzed, (ie. had no evident galena-sphalerite mineralization), did not return any highly anomalous results. There were three anomalous gold results which were 800, 120, and 100 ppb. Ag values of 38.0, 9.8, 9.2, 9.0, 7.4, 4.5, 2.7 and 2.6 ppm include all those above 2.5 ppm. All the above samples except the 9.0 ppm Ag, were from the highly altered, Mn stained vein material with rusty quartz feldspar porphyry fragments.

No anomalous rock geochemical results were obtained from the reconnaissance sampling program.

CONCLUSIONS AND RECOMMENDATIONS

Property and detailed geological mapping of the showing, chip sampling of the veins and general prospecting and sampling were carried out in 1981. A total of $5,266 was spent on this program, $2,400 of which has been applied for 2 years assessment work on the GRIZ 3 claim. The remainder has been credited to a portable assessment credit account. Significant results were returned from chip samples of the galena-sphalerite bearing veins. A few soil samples along the covered possible extent of the veins were also anomalous. Future work should involve further tracing of the veins to determine extent. This can be done by increasing the size of the present soil/talus grid and by running additional talus lines below the northwest striking ridge which contains the showing. An E.M. 16 survey on the soil grid is also recommended. Detailed mapping of the property should be conducted at a scale of 1:2500. Additional prospecting and sampling both on the property and around the property to investigate air photo linears would be beneficial.

Trenching of the high geochemical value at 2+00E, 0+20S. is warranted.

STATEMENT OF EXPENDITURES

Wages and Benefits

Name	Date	Rate	Amount	Total
J.M. Pautler	July 30,31 Aug 6-12,15	$1,950/m+15%	$ 747.50	
M. Hughes	July 30,31 Aug 6,8-12	$1,750/m+15%	536.67	
D. Güglielmin	Aug 6,7	$1,750/m+15%	134.17	
E. Sidey	Aug 11,12	$1,750/m+15%	134.17	
D. Kapicki	Aug 11,12	$1,400/m+15%	107.33	
R. Campbell	Aug 6	$1,400/m+15%	53.67	
TOTAL: 25 man days				$1,713.51

Food and Camp Supplies

25 man days @ $14.00 per man	350.00

Geochemistry

Invoice

18113299-27	soil/talus samples analyzed for Au, Ag, As, Zn @ $10.25/sample	$ 276.75
	2 soil samples analyzed for Au, Ag, Zn, @ $7.00/ sample	14.00
18113581-36	soil/talus amples analyzed for Au, Ag, As, Pb, Zn @ $11.00/sample	396.00
18113051-4, 18113350	rock samples analyzed for Au, Ag, As @ $9.50/sample	38.00
18113350-59	rock samples analyzed for Au, Ag, @ $6.25/sample	368.75
1811351 -9	rock samples assayed for Au, Ag, Pb, Zn @ $24.50/sample	220.50
	TOTAL	1,314.00

Petrographic Analysis

Invoice

2857 -	3 polished sections @ $16.00 ea.	$ 48.00
	3 thin sections @ $6.00 ea.	18.00
	6 reject slices @ $.75 ea.	3.00
	6 K-spar stains @ $1.00 ea.	6.00
	Petrographic report (6/10X440.00)	264.00
		339.00

Transportation

Keystone Helicopters, Atlin B.C.

Flight Ticket

003540	0.5 hrs	Aug 10
003528	1.0 hrs	Aug 7
003513	1.2 hrs	Aug 3
003561	0.7 hrs	Aug 16

Flying:	3.4 hrs @ $400/hr	$1,360.00	
Fuel:	3.4 hrs @ $56.00/hr	190.40	
	TOTAL		1,550.40
	TOTAL EXPENDITURE		$5,266.91

Respectfully submitted,
J.C. Stephen Explorations Ltd.

J.M. Pautler

J.M. PAUTLER, GEOLOGIST.

APPENDIX I

SAMPLE DATA SHEETS

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

B.C. GOLD SYNDICATE

NTS 104K/10E

SAMPLER J Lawless + Eleanor Sibley PROJECT Newey LINE Grid 3 Showing

DATE Aug 11/1981 AIR PHOTO No. BC 5614 075

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH / TRUE WIDTH	ASSAYS Au.	Ag	Pb Sb	Zn
(1)	27751 C	Zone 1 line1 0-45cm	qfp wallrk						<10	0.8		
(2)	27752	45-87cm	qfp	Mn altered.					<10	0.2		
(3)	27753	87-114cm	blackish with rusty qfp frags.	Mn staining cte coating	v. minor sphal				10	2.5		
(4)	27754	114-147cm	qfp btw veins						<10	0.6		
(5)	27755	147-180cm	altered vein material	heavily Mn stained cte coating					<10	1.1		
(6)	27756	180-208cm	qfp	thin cte coating in places					10	0.4		
(7)	27757	208-241	qfp with small 1-2 cm wide bl. Mn stained veinlets with cte xls in centre						<10	1		
(8)	27758	241cm-295cm	vein	Mn stained silicified			calcite blebs up to 5cm rusty patches of altered qfp		<10	2.4		
(9)	27759	295cm-333cm	qfp wallrock						<10	0.4		
(10)	27760	line2 Zone1 0-66cm	qfp wallrock						<10	0.2		
(11)	27761	66cm-96cm	vein	Mn stained			calcite xenoliths rusty qfp		<10	4.5		
(12)	27762	96cm-243cm	qfp host rock.						<10	0.3		
(13)	27763	243cm-268cm	vein	black Mn stained					<10	2.1		
(14)	27764	268cm-303cm	qfp host rock						<10	0.4		
(15)	27765	303cm-328cm	vein as in 27763						20	2.7		
(16)	27766	328cm-409cm	qfp host						<10	0.7		
(17)	27767	409cm-500cm	vein	Mn stained silicified	galena		assay		0.010	5.98	3.46	4..
(18)	27768	500cm-533cm	qfp host rock						<10	0.2		
(19)	27769	Zone 2 0-20cm	vein	Mn stained silicified			rusty qfp fragments		20	1.9		
(20)	27770	20cm-100cm	qfp with calcite veins						<10	0.9		

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

B.C. GOLD SYNDICATE

NTS 104 K/10E

LINE Grid 3 showing

PROJECT Newey

AIR PHOTO No. BC 5614 075

DATE Aug 11, 12/81

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH / TRUE WIDTH	ASSAYS Au.	Ag.	Pb	Zn
(1)	27771 C	Zone 2 cont'd 100cm - 160cm	vein	siliceous Mn stained	galena sphalerite		assay		0.194	1.46	0.54	1.[illegible]
(2)	27772	160cm - 233cm	qfp with vein material	Mn stained			veins from few cms to 10 cm wide		<10	1.7		
(3)	27773	233cm - 279cm	qfp wallrock						<10	0.2		
(4)	27774	~~Vein~~ above zone 2	vein calcite	Mn stained	some galena		assay rusty zones		0.010	0.10	0.07	0.[illegible]
(5)	27775	Zone #3 line 1 0 - 66cm	qfp wallrock						<10	0.2		
(6)	27776	66cm - 116cm	vein	Mn stained	galena sphalerite		assay		<0.003	1.15	1.14	1.[illegible]
(7)	27777	116cm - 196cm	qfp						<10	0.5		
(8)	27778	146cm - 209cm	vein	Mn stained	galena sphalerite		assay		0.004	1.93	0.87	4.[illegible]
(9)	27779	209cm - 249cm	qfp wallrock						<10	0.2		
(10)	27780	Zone 3 @ line 2 0 - 40cm	qfp wallrock				very crumbly		<10	0.1		
(11)	27781	40cm - 140cm	vein	Mn stained	galena sphalerite		assay		<0.003	0.22	0.21	0.5
(12)	27782	140cm - 209cm	qfp						<10	0.5		
(13)	27783	209 - 309cm	vein with qfp						<10	1.2		
(14)	27784	309cm - 379cm	vein	silicified Mn stained			calcite veines		<10	0.7		
(15)	27785	379 - 430cm	qfp wallrock						<10	0.2		
(16)	27786	Zone 4 line 1 0 - 38cm	qfp wallrock						10	0.1		
(17)	27787	38cm - 88cm	altered wallrock						<10	0.1		
(18)	27788	88cm - 220cm	altered wallrock	Mn stained			rusty qfp fragments in poorly defined veins		<10	0.4		
(19)	27789	220cm - 256cm	vein	Mn stained	minor galena sphalerite		assay		0.118	0.18	0.91	0.2
(20)	27790	256cm - 306cm	qfp wallrock						<10	0.3		

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

B.C. GOLD SYNDICATE

NTS 104 K/10E

SAMPLER J Hautler + ES Iday

PROJECT Newex

LINE Grid 3 showing

DATE Aug 12/81

AIR PHOTO No. BC 5614 075

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS Au.	Ag.	Sb.
(1)	27791C	zone 4 line 2 0-45cm	qfp wallrock							<10	0.1	
(2)	27792	45cm-144cm	qfp from vein zone							<10	0.1	
(3)	27793	144cm-220cm	minor veining altered qfp							<10	0.1	
(4)	27794	220cm-255cm	vein	mn stained silicified	pyrite					20	0.3	
(5)	27795	255cm-355cm	altered qfp between veins							<10	9.0	
(6)	27796	355cm-454cm	vein zone	heavy mn staining silicified			rusty qfp fragments			<10	2.0	
(7)	27797	454cm-492cm	qfp wallrock							10	0.2	
(8)	27798		vein	mn staining	sphalerite					10	1.4	
(9)	27799		vein of calcite	mn stained	sphalerite					<10	9.8	
(10)	27800	zone 5 line 1 0-30cm	qfp wallrock							<10	1.0	
(11)	35701C	zone 6 33cm-line 1 49cm	silicified zone with qfp fragments	rusty qfp some mn staining						20	0.6	
(12)	25702	49cm-219cm	qfp between veins							100	0.2	
(13)	257503	219cm-289cm	silicified vein	mn staining rusty qfp fragments						<10	7.4	
(14)	257504	289cm-325cm	qfp wallrock							10	0.4	
(15)	257505	zone 5 line 2 0-43cm	qfp wallrock							<10	0.2	
(16)	257506	43cm-143cm	vein material	mn stained rusty qfp silicified						20	1.2	
(17)	257507	143cm-361cm	large qfp zone							<10	0.4	
(18)	257508	361cm-401cm	vein zone	mn stained rusty qfp fragments			some qfp interstitial			20	2.6	
(19)	257509	401cm-465cm	qfp wallrock							30	0.2	
(20)	257510		vein	mn stained rusty qfp fragments			7cm wide vein			800	0.7	

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

B.C. GOLD SYNDICATE

SAMPLED T.D. [illegible]

PROJECT Newex

NTS 104K/10E

LINE Griz 3 showing

DATE August 12 [illegible]

AIR PHOTO No. BC 5614 075

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH / TRUE WIDTH	ASSAYS Au.	Ag	Pb	Zn
(1)	25711C	Zone 6 line 1 0-55cm	qfp wallrock						<10	0.1		
(2)	25712	55cm-100cm	vein material	Mn staining silicification			rusty qfp fragments		120	9.2		
(3)	25713	100cm-155cm	altered qfp between veins						<10	0.2		
(4)	25714	155cm-220cm	rusty qfp in vein	very altered weathered Mn stained			very grungy		<10	0.7		
(5)	25715	220cm-268cm	vein with some qfp	silicified Mn stained	galena, sphalerite		assay		0.044	1.72	0.31	1.[illegible]
(6)	25716	268cm-307cm	vein material	Mn stained weathered			grungy material		<10	0.6		
(7)	25717	307cm-340cm	vein 'Hi grade'	Mn staining silicified	galena sphalerite		assay		0.016	16.97	8.29	6.[illegible]
(8)	25718	340cm-388cm	altered wall rock qfp						<10	0.4		
(9)	25719	Zone 6 12m above line 1	vein	silicified rusty qfp fragments	minor galena				<10	38.0		
(10)	25720	Griz 1		rusty surfaces	pyrite		aphanitic					
(11)	25721	10m above B-127	quartz vein				10cm wide line exposed 67°/E					
(12)	25722		quartz vein float	few rusty spots			talus slope with qfp and rusty qfp					
(13)	25723	west side of Griz 1		siliceous, rusty			very altered					
(14)	25724		qfp with drusy quartz		pyrite specularite		angular float from outcrop 3m above					
(15)	25725	large gully near top	qfp with qtz veins	silicified		trend 92° N	veins 5mm wide crosscutting rusty surface					
(16)	25726	4m above 25725C	qtz veins within qfp			trend 76°/90	qfp brecciated					
(17)	25727	in stream in large gully near top	qtz vein		pyrite		rusty yellow weathered surface					
(18)												
(19)												
(20)												

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET — ROCK GEOCHEM SAMPLING

B.C. GOLD SYNDICATE

SAMPLER J. Pautler

DATE Aug 5 – Aug 14

PROJECT Newey

NTS 104K/10E

LINE Griz claims and area

AIR PHOTO No. BC 5614 073 075 025

	SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS Au.	~~As.~~ Ag	~~Sb~~ As	
(1)	77493 B	rusty cirque GRIZ 3	altered qfp?	cte veining silicification rusty weath.						✓ <10	✓ 0.3	✓ 6	
(2)	77494	NE side of Frozen Lake GRIZ 3	silicified zone in qfp	minor cte, rusty			GRIZ 3			✓ <10	✓ 0.1	✓ 7	
(3)	77495	NW of Griz 3	altered qfp.	v. rusty silicification	abundant py especially on fracture surfaces					<10	0.1	>500?	
(4)	77496	near 1S on GRIZ 1	altered qfp.	v. rusty	dissem. py					<10	0.1		
(5)	77497	just east of 1S, GRIZ 1	qtz-carb vein bx - frags of qfp	rusty						110	0.2		
(6.)	77498	900 m. S of LCP GRIZ 2	altered qfp	rusty	py					<10	0.1		
(7)	77499	50m W of 0+00E/0+80S GRIZ 3	aphanitic v. grey colour,	silicious, lt. partly colloform qtz	Mn staining					<10	0.4		
(8)	77500 B	GRIZ 1 400S/100E	altered intrusive	- rusty - minor silicific.	minor py Mn staining					20	0.6		
(9)	25720 C	GRIZ 1	v. silica-rich, aphanitic, rusty surfaces		py					<10	0.7	30	
(10)	25721	GRIZ 1	qtz vein	rusty weath		67°/E	10m above B-127 10 cm wide, in exposure			20	0.4	11	
(11)	25722	GRIZ 1	milky qtz vein	few rusty spots			float in talus, angular with qfp + rusty qfp blds			<10	0.1	5	
(12)	25723	GRIZ 1, W side	silica, cte veins	rusty v altered						50	0.1	6	
(13)	25724	GRIZ 1	qfp, drusy qtz veining	v. rusty altered	abundant py, silver-grey mineral,	hardness	~~angular float from o/c 3m above.~~ 5+, red str → specularite			50	0.5	7	
(14)	25725	GRIZ 1 near top of lge gully	sil. qfp qtz veins 5mm wide xcutting	v. rusty		92°/80°N				<10	0.1	22	
(15)	25726	4m. " above 25725	qtz veins + sil. zone in qfp	v. rusty		76°/90°				<10	0.1	7	
(16)	25727	GRIZ 1 in stream in lge gully	blue-grey qtz vein	rusty - yellow surface	lots py		float, angular in stream in lge gully, downstream from 25726.			<10	0.1	15	
(17)													
(18)													
(19)													
(20)													

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

SAMPLER J. Pautler + Don G.

DATE Aug 6 – 7/81

PROJECT Newey

NTS 104 K/10E

LINE Griz 3.

AIR PHOTO NO. BC 5614 075

SAMPLE NO.	LOCATION	Depth cm	Horiz	DESCRIPTION: Colour	Part Size	% ORG.	Ph	SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS: Au	Ag	As	Pb	Zn
81-NKG-B															
0+00N/0+00E		6"	B	dark br.	clayey silt	med.		gentle	grass	- edge of soil / talus - above galena veins trending 260°	<10	0.1	46		13
0+00N/1+00E		5"	B	med br.	pebbly clayey silt	mod		"	"		<10	0.1	25		8
0+00N/2+00E		4'	B	"	fine	"		mod.	"	on top of gfp ote.	10	0.1	19		7
0+00E/1+20N		32 cm	A-B	dk. med br.	pebbly silt	"		gentle	"	30cm of A. above gfp ote	<10	0.1	11		7
0+00E/1+40N		cm 10	A+C	dk br	pebbly clay	"		flat	grass moss	angular float of gfp	<10	0.1	10		7
0+00E/1+60N		8"	B	"	pebbly silt	low		"	"	near ote of gfp, some gfp float.	<10	0.1	9		7
0+00E/1+80N		10"	B	med-dk br	pebbly silt	mod		"	"	gfp angular float	<10	0.1	10		7
0+00E/0+20N		7	B	med br	fine silty	low		mod-steep	some grass	above gfp ote, near + above galena veins	<10	0.1	405		25
0+00E/0+40N		8	B	"	pebbly clayey sand	mod		gentle	moss grass	near gfp ote	20	0.1	14		8
0+00E/0+60N		12	B	dk br.	v. fine sandy silt	mod-hi		"	" buckbrush	near gfp ote + talus	<10	0.1	17		12
0+00E/0+80N		5	B	light br-br	pebbly clayey silt	mod		mod	some grass	just above gfp ote.	<10	0.1	7		9
1+00E/0+20N		25	B	light br - Br	v. pebbly silt	few		mod-steep	grass	lots angular gfp	<10	0.1	5		6
1+00E/0+40N		10	B	slightly rusty lt Br	sandy v. pebbly	few		gentle	grass moss	some gfp float.	<10	0.1	6		6
1+00E/0+60N		15	B	med br	pebbly silt	mod		mod	"	ang. gfp float, above gfp ote	<10	0.1	10		7
1+00E/0+80N		15	B	dk br	"	"		flat	"	near gfp ote	<10	0.1	11		6
1+00E/1+00N		7	B?	med br	"	few		"	"	directly on top of gfp ote	<10	0.1	15		8
1+00E/1+20N		15	B?	" "	"	few		gentle	moss	in crevices of gfp ote	<10	0.1	16		11
1+00E/1+40N		20	B	"	pebbly clayey silt	mod		"	—	gfp ote in area	20	0.1	12		7
1+00E/1+60N		24	B	"	pebbly silt	"		"	grass moss	no float in hole near gfp ote	<10	0.1	11		7
BT-1+00E/1+80N		15	B	lt. br. fine	pebbly			mod.	none	below gfp ote	<10	0.1	3		5

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

SAMPLER J Pantler & Don G

DATE August 7/81

PROJECT Newex

NTS 104K/10E

LINE BRIZ 3

AIR PHOTO NO. BC 5614 075

SAMPLE NO.	LOCATION	Depth cm	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb	Zn
81NXB	2+00E 0+20N	30		dark brown	pebbley clay silty	mod.		flat	grass moss	near qfp outcrop, many pebbles of qfp.	<10	0.1	14		82
	2+00E 0+40N	10	B+C	dark brown	pebbley silt	mod.		flat	moss	directly over qfp outcrop	<10	0.1	15		84
	2+00E 0+60N	20	B	medium brown	pebbley clay silt	low		flat	grass moss	no rock in hole, near qfp outcrop	20	0.1	12		83
	2+00E 0+80N	No Sample.								no sample due to snow. Check	<10	0.1	12		9
	2+00E 1+00N									no sample due to snow					
	2+00E 1+20N	30						gentle		below snow. qfp outcrop and float. very muddy Check					
	2+00E 1+40N	30		medium brown	pebbly silty sand	none		gentle		usually covered in snow; glacial, qfp outcrop	10	0.1	14		112
	2+00E 1+60N	18		medium brown	pebbly silty sand	low		flat	grass moss	thin A horizon qfp float around	<10	0.1	16		116
	2+00E 1+80N	20	B	medium brown	pebbley clay silt	mod.		flat	grass moss	rootlets present, qfp float in region	20	0.1	14		11
	0+00E 0+20S	35	A	dark brown	very fine silty	high		moderate	grass	intrusive float in hole	<10	0.4	20	22	8
	0+00E 0+40S	10	B	orange brown	fine silty sand	high		moderate	grass	few pebbles near intrusive outcrop	<10	0.1	12	10	92
81 NXBT	0+00E 0+60S	10	B	orange brown	pebbly silty	high mod.		moderate	grass	talus, below qfp outcrop	10	0.1	9	22	9
	0+00E 0+80S	10	B	orange brown	fine silty sand	mod.		moderate	grass		<10	0.1	20	19	14
	0+00E 1+00S	30	B	orange brown	fine & sandy	few			grass moss	above qfp outcrop	<10	0.1	12	14	8
81 NXB	1+00E 0+20S	10	B	medium brown	fine silty sand	mod.		gentle	moss grass		10	0.1	16	8	11
81NXBT	1+00E 0+40S	10	B	medium brown	coarse to fine talus	mod		moderate	grass buck brush	talus sample	<10	0.1	5	10	8
81NXB	1+00E 0+60S	8	B	medium dark brown	silty pebbly sand	few		gentle	grass moss	qfp float	<10	0.1	9	6	1
	1+00E 0+80S	5	B	medium brown	fine sandy silt	few		flat	moss	slightly rusty	<10	0.1	22	6	8
	1+00E 1+00S	3	B	medium brown	fine sandy silt	few		flat	shrubs grass	slightly rusty	<10	0.1	14	5	13
	2+00E 0+20S	10	B	orange brown	fine silty sand	few		gentle	buck brush grass	somewhat rusty taken 4m east of station	80	42.0	7000	3000	19

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

SAMPLER J Butler, [redacted]

DATE August 7/81

PROJECT Nowey

NTS 104 K/10E

LINE Griz 3

AIR PHOTO NO. BC 5614 075

SAMPLE NO.	LOCATION	Depth Cm	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb	Zn
B1 NXB	2+00E 0+40S	—	A-B	dark brown	med silty pebbly	few		moderate	grass		<10	0.7	39	20	12
	2+00E 0+60S	—	No	Sample						No Sample					
	2+00E 0+80S	10	B	dark brown	fine silty sand	few		gentle	grass		<10	0.1	12	12	6
	2+00E 1+00S	7	B	med br.	silty sand	few		gentle	moss grass		<10	0.1	9	4	4
GRIZ	3 –	Aug		15/81											
BT-138	The Showing	—	B	lt. br. rusty br	med-coarse	mod		gentle	—	7 m W. of top of Zone 1 at Showing.	<10	0.1	7	7	85
BT-139	The Showing	—	B	rusty lt br.	fine pebbly	few		mod	—	1 m W. of top of vein in Zone 1	<10	0.1	22	33	118
BT-140	W of Showing	3	B	lt or-br.	med	mod		gentle	grass moss	- above steep gully in old pit	<10	0.1	14	4	7

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

SAMPLER J. Pantler

DATE July 30 – Aug 8/81

PROJECT Newey

NTS 104K/10E

LINE Griz claims + area

AIR PHOTO NO. BC 5614 073 075 025

SAMPLE NO.	LOCATION	Depth (cm)	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb	Z
81-MK-B-105	Frozen Lake	5	B	rusty dk br.	fine	3	dry	flat	grass moss	gfp otc in area, altered	<10	0.1			9
B-106	Griz 3	5	B	rusty or-br.	"	5	"	"	"	gfp otc in area	<10	0.1			7
B-107	" Griz 3	2	B	"	med	<2	"	mod.	—	gfp otc.	<10	0.1			9
B-108	Frozen L.	—	B	v. rusty br.	fine	2		flat	grass moss	gfp float.	<10	0.1			10
BT-109	Road ridge NW of Frozen	5	B	rusty lt. br.	med	2		"	grass	on top of gfp otc., E side of steep ridge.	<10	0.1	12		10
BT-110	"	5	B	"	"	4		"	"	above gfp otc in contact w/ sed's.	<10	0.1	73		21
BT-111	"	1	B	"		2		"	grass shrubs	near middle of top of same ridge near + above rusty lt br. gfp/sed contact.	<10	0.1	73		18
BT-112	"	—	B	rusty or-br.	med	<2		Step	—	on v. pyritic otc of gfp.	10	0.1	225		15
BT-113	Griz 3 1.8N/3W	2	B	Or-Br rusty	med-coarse	2		gentle	—	below cliff of gfp.	10	0.1	6		12
B-114	Griz 1 near 1S	—	B	"	med	2		"	grass	with gfp float, some v. rusty w. py.	<10	0.1	9		8
B-115	"	2	B	dk or-Br	fine	4		flat	grass moss	rusty gfp float w/ py + slightly sil gfp	<10	0.1	22		7
BT-116	Griz 2	6	B	dk or-Br	Coarse	5		gentle	"	rusty + non rusty gfp float	20	0.1	12		10

BC 5614 073

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

SAMPLER D. Kapicki / M. Hughes

DATE AUGUST 12/81

PROJECT TALUS SAMPLES NX

NTS 104 K/10E

LINE GRID 3

AIR PHOTO NO. BC 5614 075

SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Au	Ag	As	Pb	Zn
81-NXG-~~BT~~	0+00E	1cm	talus surface	brown rusty	fine			37°+	balsam low brush	furthest cliff outcrop, directly bottom face cliff wall. From QFP rock	<10	0.1	4	6	6
81-NXG BT	0+20E	5cm	"	"	"			"	grassy	talus begins in sample location from QFP cliff.	<10	0.1	5	15	10
81-NXG BT	0+35E	5cm	"	"	"			"	"	down slope 15 m.					
81-NXG BT	0+50E	10cm	A	"	"			"	—	just below Mn staining on cliff	<10	0.1	5	7	90
81-NXG BT	0+75E	2cm	talus	"	"			"	grassy	QFP cliffs directly above	<10	0.1	4	5	78
81-NXG BT	1+00E	2cm	"	"	"	slight		"	grassy	next major talus flow eastward B	20	0.1	5	8	7
											<10	0.1	5	3	8
81-NXG BT	1+25E	2cm	"	"	"	"		"	spruce 4ft. trees	25ft. below QFP o/c cliff.	<10	0.1	4	5	72
81-NXG BT	1+50E	5cm	"	"	"	"		"	flowery-spruce	major talus flow	10	0.1	4	5	73
81-NXG BT	2+00E	5cm	"	"	"	"		"	sparse	" "	<10	0.1	15	24	83
81-NXG BT	2+25E ? 2+75E	5cm	"	"	"	mod.		"	trees	taken from small gully, top of flow	<10	0.1	5	12	85
											20	0.1	5	8	73
81-NXG BT	3+00E	10cm	"	"	"	mod.		"	heavily treed	following edge of cliff bottom.	10	0.1	7	16	83
81-NXG BT	3+50E	20 cm.	A	"	"	mod.		"	"	between 2 QFP cliffs.	<10	0.1	7	9	7
81-NXG BT	4+00E	5cm.	talus	"	"	slight		"	"	well sorted, medium grade	10	0.1	25	33	12
81-NXG BT	4+50E	15cm	"	"	"	"		"	"	major talus flow from gully	<10	0.1	19	20	10
81-NXG BT	4+75E	10cm	"	"	"	"		"	"	major talus flow from another gully	<10	0.1	4	7	7
81-NXG BT	4+90E	12cm	"	"	"	"		"	"	further up from last	<10	0.1	17	23	11
81-NXG BT	5+25E	5cm	"	"	"	"		"	"	" "	<10	0.1	7	21	9

APPENDIX II

PETROGRAPHIC DESCRIPTIONS

Specimen : JP-2 FELDSPAR PORPHYRY - GRIZ 3 SHOWING

Classification : Trachyandesite (volcanic)

Mode :

Plagioclase	35-40%
K-spar	40%
Calcite & other secondary minrls.	10%
Biotite	5%
Quartz	<5%
Accessories	1%
Opaques	1%

Handspecimen : Grey, massive volcanic rock containing phenocrysts of plagioclase, altered (calcareous) amphibole and biotite. The matrix is very rich in K-spar, as indicated by the yellow colour in the stained block.

Thin section : Texture : porphyritic, holocrystalline; most likely a effusive rock.

Plagioclase occurs as euhedral and subhedral phenocrysts ranging up to 5 mms. in size. Although finely developped oscillatory zoning is present in many of the laths, the average composition appears to be An-40, andesine. (Determined by combined carlsbad/albite method). Carlsbad, albite and pericline twinning are all present. All grains contain small patches and thin veinlets of secondary carbonate.

Biotite forms brown pleochroic phenocrysts up to 2 mms. in size. These are frequently somewhat corroded and locally intergrown with plagioclase phenocrysts. Most grains are surrounded by thin rims of granular opaques.

Calcite occurs in granular aggregates up to 2 mms. in size, which are clearly pseudomorphous after a ferro-magnesian phenocrystic phase. Frequently the carbonate surrounds cores composed of fine grained, aggregate clayminerals, white mica and feldspar. In turn, they are rimmed by fine granular opaques. Calcite occurs furthermore as irregular secondary patches throughout the remainder of the rock.

K-spar forms the bulk of the fine grained groundmass. together with lesser plagioclase and probably some quartz, secondary minerals, apatite, opaques etc.

Apatite occurs as euhedral and subhedral accessory crystals up to .25 mms. in size, scattered throughout the groundmass. A few grains of subhedral zircon are present as well.

Opaques occur as fine disseminated granular material. The coarser grains (up to .5 mm.) are subidiomorphic and tend to form aggregates.

Note : possibly this specimen is a effusive variety of spec. JP-1.

Specimen : JP-3 ALTERED FELDSPAR PORHYRY - GRIZ 3 SHOWING

Classification : Altered feldspar porphyry

Mode :		
	Quartz	40-50%
	Clayminerals	30-40%
	Limonitic calcite	10%
	White mica	5%
	Accessories	1%
	Opaques	1%

Handspecimen : Strongly altered (limonitic & calcareous), porphyritic volcanic rock. Altered feldspar (plagioclase) and amphibole(?) phenocrysts are macroscopically visible. The vague primary texture somewhat resembles that of specimen JP-2.

Thin section : The groundmass of this specimen appears to be composed predominantly of fine grained, granular quartz (av. size .18 mm.), clouded by dusty secondary minerals, probably mostly clayminerals. Scattered through this matrix are abundant, irregular secondary patches of limonitic calcite, clayminerlas and a bit of white mica. Probably the quartz itself is of secondary origin, having replaced a primary volcanic groundmass. This throws considerable doubt on a rhyolitic classification for this specimen. It may be a silicified and altered version of JP-2, but is here classified as a altered feldspar porphyry.

Scattered throughout the groundmass are accessory amounts of euhedral apatite (up to .25 mm.) and subhedral zircon.

Original phenocrysts of plagioclase, amphibole and biotite are represented by pseudomorphs composed of clayminerals, white mica, limonitic calcite and opaques. These range up to 4 mms. in size and resemble those of spec. JP-2 in being frequently surrounded by rims of fine granular opaques, which are mostly altered to limonite.

Small grains of subidiomorphic opaques are scattered throughout.

Specimen : JP-5 GRIZ 3 SHOWING

Classification : Galena & sphalerite bearing cataclastic rock

Mode :		
	Quartz	60-70%
	Clayminerals & white mica	10%
	Calcite & limonite	10%
	Galena & sphalerite	10%
	Apatite & zircon	tr

Handspecimen : Limonitic and calcareous banded breccia/protomylonite containig lenticular domains rich in galena and sphalerite. The rock is crosscut by post mylonitic fractures, some of which have been healed by carbonate.

Thin section : Irregular to lenticular, nebulous domains of very fine grained to aphanitic material (rich in clayminerals but otherwise silicified) are the only indicators of a primary lithology. Locally a faint suggestion of a original porphyritic texture is present as well, with claymineral aggregates resembling altered phenocrysts set in a fine grained, siliceous matrix. These are visible in the lower part of the section.

The remainder of the specimen is composed of secondary minerals, mainly quartz, carbonate, limonite, galena and sphalerite, with lesser clayminerals and white mica. Some of the quartz forms granular textures masses rather similar to the groundmass quartz in spec. JP-3. Small, irregular patches and veinlets of limonitic calcite and clayminerals are everywhere present. Relict zircon, apatite and altered biotite are present within these domains.

The rest of the quartz is clearly of hydrothermal origin, replacing the earlier lithologys along veinlets and lenticular domains generally parallel to the cataclastic fabric. Grainsize ranges from extremely fine grained to approx. .5 mms.

Calcite forms lenticular bodies up to 3 mms. thick, parallel to the cataclastic fabric. It is also present in irregular secondary patches and in veinlets along late fractures. Cross cutting relations suggest several episodes of remobilization.

Sphalerite occurs as subhedral crystals, often faintly zoned, up to 1 mm. in size. It is clearly associated with galena within the relatively coarser grained quartz domains. Minor amounts of pyrite are present as well.

Specimen : JP-6 GRID 3 SHOWING

Classification : Silicified, veined and altered trachyandesite

Mode :		
	Quartz	30-45%
	Clayminerals	25%
	Calcite	30-40%
	Zircon & apatite	tr
	Sphalerite	<5%
	Other opaques	1%

Handspecimen : Light grey, siliceous and calcareous vein breccia. Angular fragments with a original porphyritic texture, very similar to spec. JP-2, are clearly visible in cut surface. This spec. is most likely a altered, silicified and veined version of JP-5. Rare, small specks of galena are visible in handspecimen.

Thin section : The above view is conclusvely verified by thin section examination. The pre vein texture is identical to thatin spec. JP-3. Abundant carbonate occurs in small secondary patches, as larger granular masses and in veinlets. As tiny euhedral crystals it is associated with chalcedony veins, which run along the length of the section and crosscut all other fabrics. Locally these veins are a bit vuggy.

Clayminerals occur as very fine grained aggregates associated with granular quartz (as in JP-3). A few relict zircon and apatite,crystals remind one of the original nature of this rock. Relict phenocrysts are not very well visible in thin section but are clearly present in handspecimen.

Opaques occur as scattered, small grains and aggregates. A few small grains of sphalerite (av. size .25 mms.) are clearly associated with galena and secondary granular quartz.

Specimen : G-1 GRIZ 3 SHOWING

Classification : Siliceous and calcareous vein-breccia + ore minerals

Mode :

Quartz	40-50%
Calcite	40%
Claymineralls	10%
Opaques	5-10%

Handspecimen : Siliceous and calcareous vein-breccia containing galena and sphalerite. Light coloured siliceous fragments are set in a dark, aphanitic siliceous vein network. Some of the veins are a bit hematitic. A few dark areas (fragments?) contain fine, yellow metallic needles.

Thin section : Texturally and mineralogically this specimen is somewhat similar to the previous two samples, combining elements of both. However, original (porphyritic?) textures are only very poorly preserved among some of the finer grained siliceous, claymineral rich domains. These are here interpreted as remnants of the primary, albeit altered, lithology. Only a few cf these are present, the remainder of the sample being composed of a complex multistage vein network. The pattern of veining is as follows:

stage 1 : Early quartz veining, probably synchronous with silicification. Relatively coarse grained quartz, locally speroidal and radiating. Average size .5 mms. It is evidently this phase during which the ore minerals were introduced.

stage 2 : Crosscutting calcite veinlets. These are locally a bit hematitic and appear to have remobilized some of the ore minerals.

stage 3 : Late, very fine grained silica (chalcedony) veinlets, cross-cutting the previous two stages. This stage includes some brecciation and fracturing. The resulting fabric is in part cataclastic. At least some late stage movement along fractures has occured after injection of these fine grained silica veins, juxtaposing them against earlier stage domains.

The fine grained euhedral, yellow sulfide needles are ~~composed of pyrite~~ arsenopyrite. They are up to 1 mm. long and have a rhombic cross-section. Locally it is intergrown with galena. Galena locally forms feathery, anisotropic aggregates, probably due to cataclastic deformation. Sphalerite is associated with the galena and pyrite, and forms zoned, subhedral crystals up to 1 mm. in size.

Specimen : G-2 GRIZ 3 SHOWING

Classification : Siliceous and calcareous vein-breccia

Mode :		
	Quartz	30%
	Calcite	40%
	Clayminerals/white mica	10%
	Opaques	20%

Hand specimen : Galena and sphalerite bearing vein-breccia. A distinct anisotropic fabric is probably the main difference with spec. G-1. Both calcite and silica veinlets are present, and any remaining original lithology is likely highly silicified and altered. Late fractures have slightly offset some of the catclastic fabric, and hence are younger in age.

Thin section : In thin section this specimen is not significantly different from spec. G-1, at least mineralogically. Fine grained, silicified domains rich in clayminerals and a bit of white mica, probably represent the oldest phase in this rock. A crosscutting sequence of veins appears to be similar to that in spec. G-1. Spalerite occurs mainly in calcite veinlets and may have been remobilized from a original association with early quartzveins. It forms grains up to 5 mms. in size. Very fine grained siliceous veins (stage 3) which locally crosscut calcite veins, contain abundant euhedral calcite crystals, probably due to remobilization from the earlier calcite veinlets. The coarser grained calcite crystals (up to 3.5 mm.) are a bit bent, lending support to the notion of late stage cataclastic deformation as advertized under G-1. Subsequent fractures have offset the stage 3 structures somewhat. Galena, associated with spalerite, ranges up to 1 mm. in size.

APPENDIX III

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Jean Pautler, am a graduate of the Honours Bachelor of Science program at Laurentian University, Sudbury, Ontario, 1980.

I have the following employment experience:-

April 1981 to present Geologist with J.C. Stephen Explorations Ltd. North Vancouver, B.C.

May to October 1980 Geologist with J.C. Stephen Explorations Ltd.

May to August 1979 Assistant geologist with Kelvin Energy Ltd. Calgary Alberta.

May to September 1978 Assistant geologist with the Ontario Geological Survey, Toronto, Ontario

NOVEMBER 1981

JEAN PAUTLER