part 1
092

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

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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, extension 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

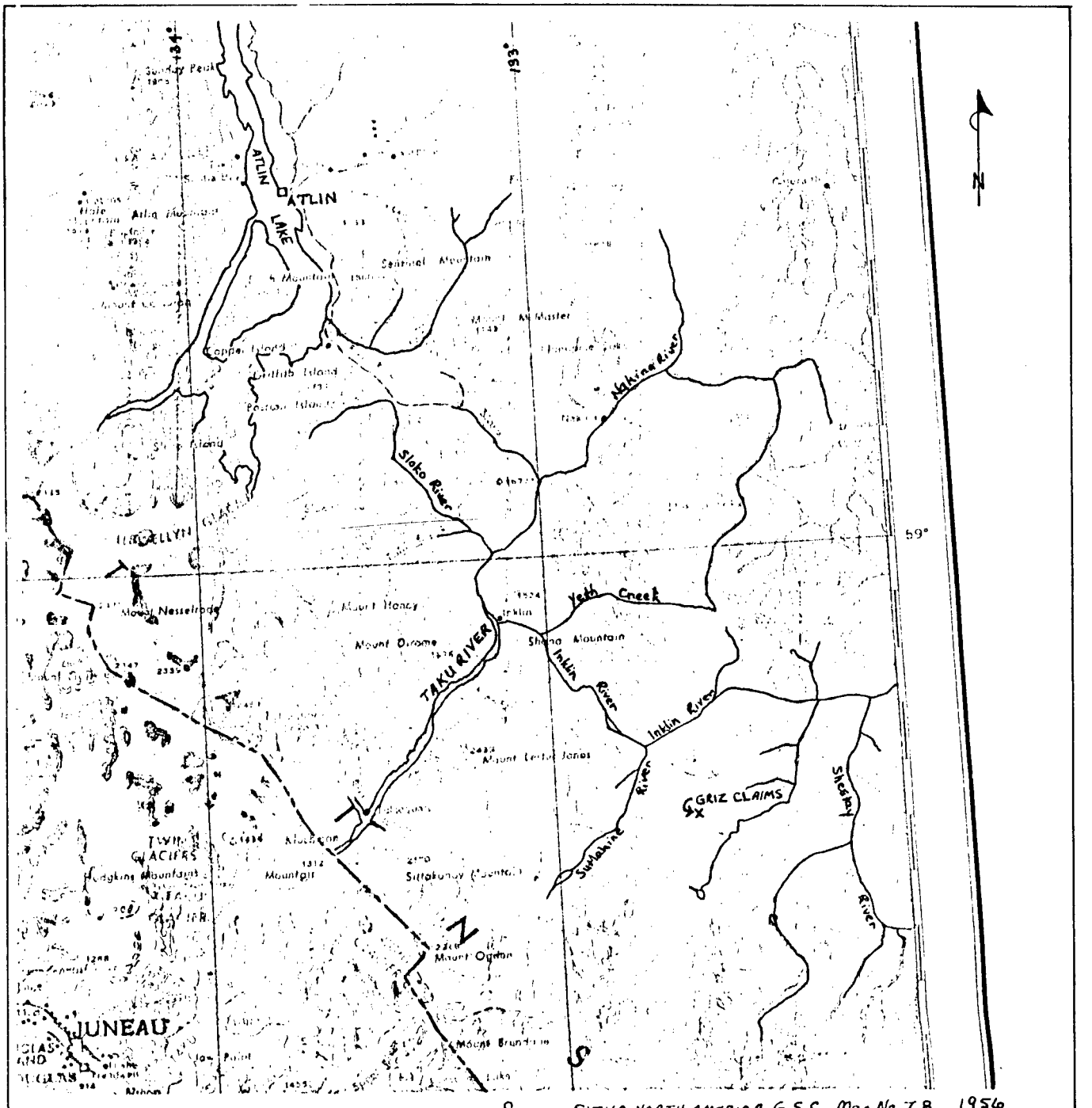
Griz 1, consisting of 20 units, has been grouped with the 4-unit Griz 2 claim for assessment purposes.

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 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.



from SITKA, NORTH AMERICA, G.S.C. Map No. 7.8., 1956

J.C. STEPHEN EXPLORATION LTD.

NEWEX SYNDICATE

GRIZ CLAIMS

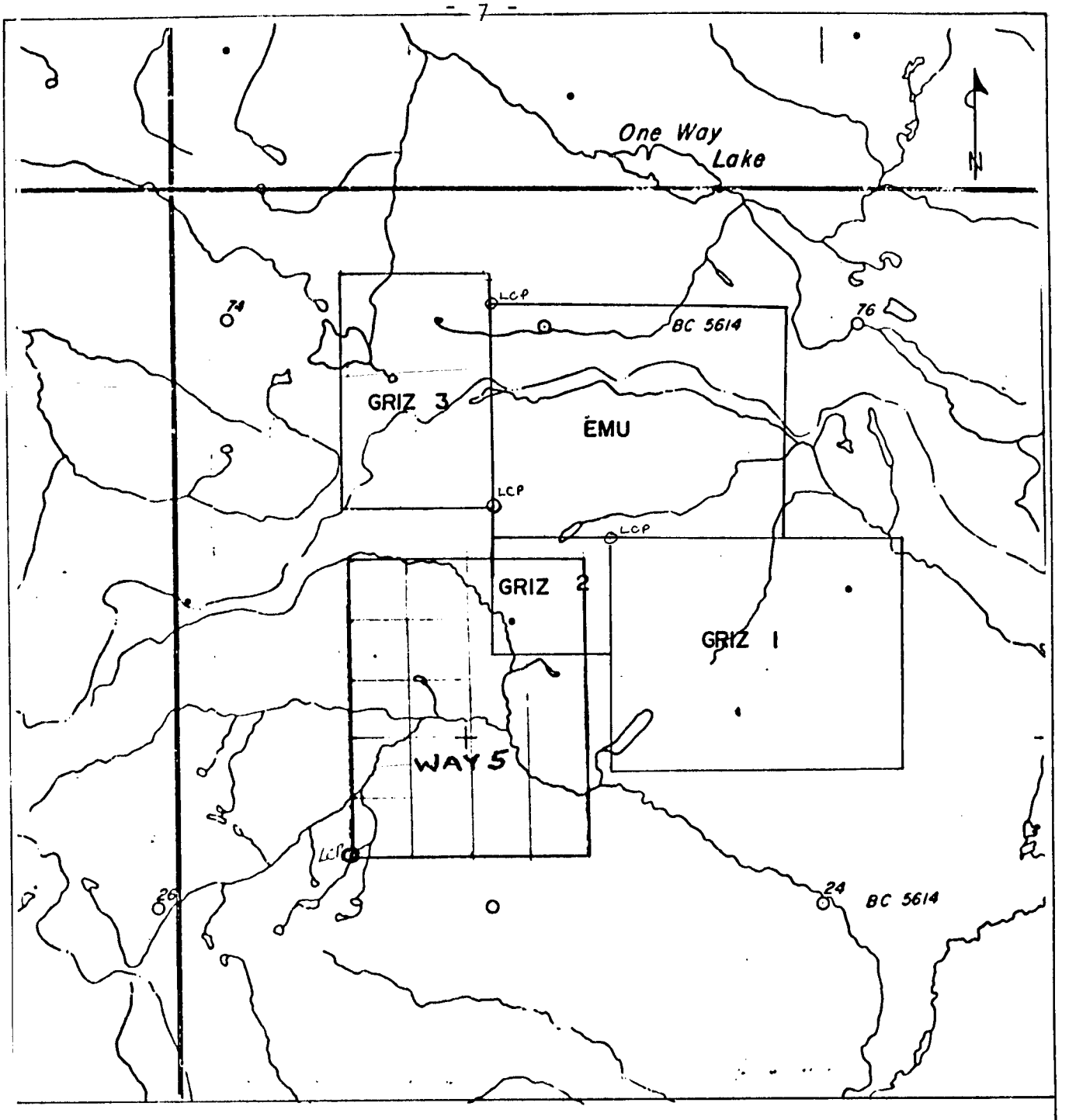
NTS 104K/10E

LOCATION

0 10 20 kms.

SCALE 1:1,000,000

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.

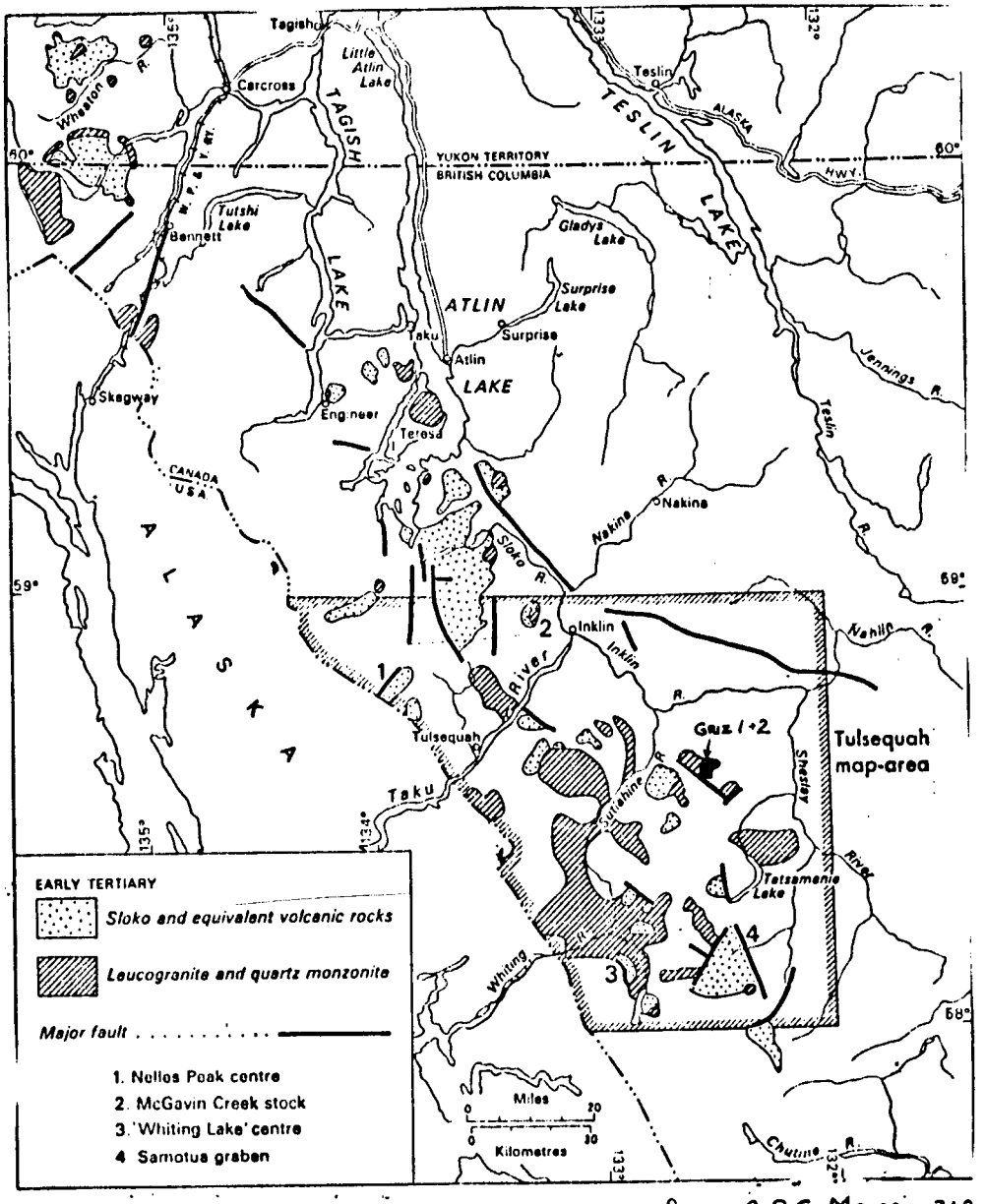
SCALE 1:50,000

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^{0} and 5-20^{0}. Others trend 160^{0} and 40^{0}.

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.

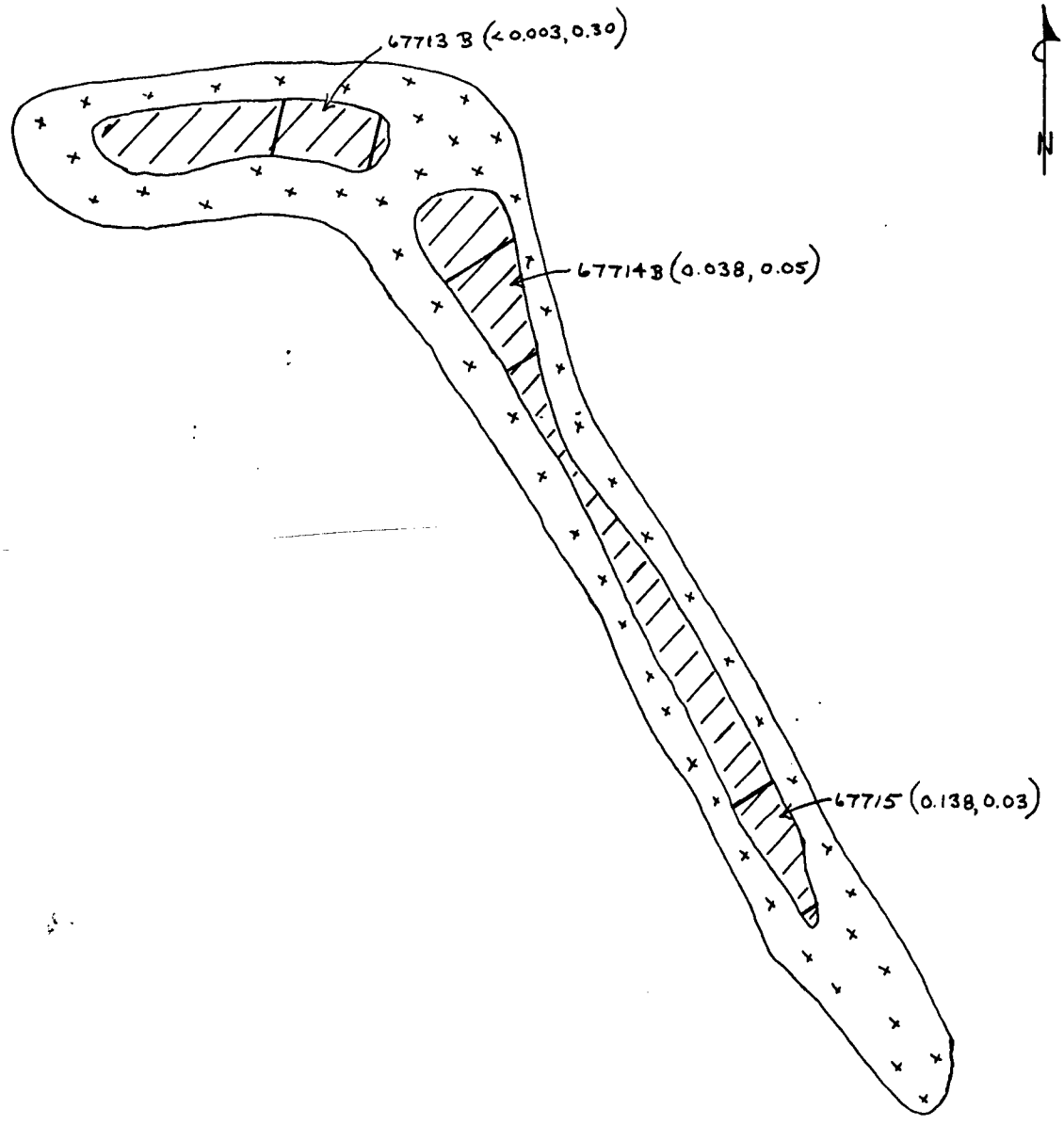
The southernmost of the 2 occurrences mentioned above also contain a pyritic quartz breccia and abundant pyritic seams.

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

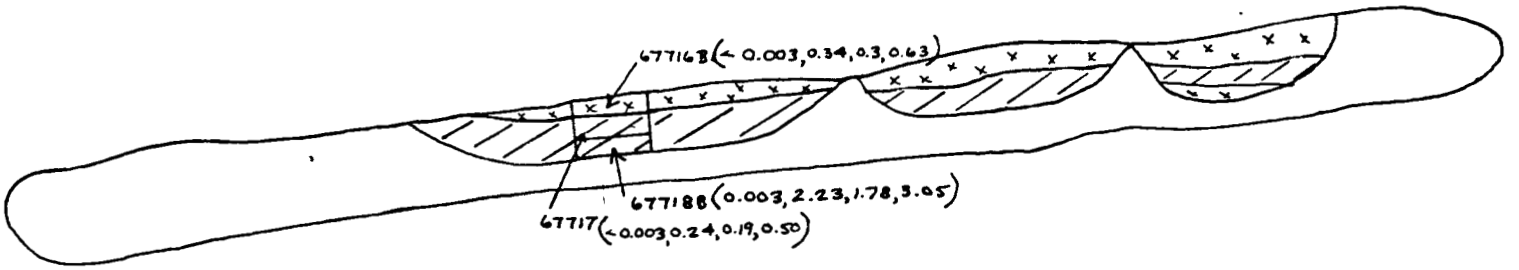
TRENCH I

DATE: AUG, 1981

SCALE: 1:50

1.0 2.0 METRES

FIG. 4



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

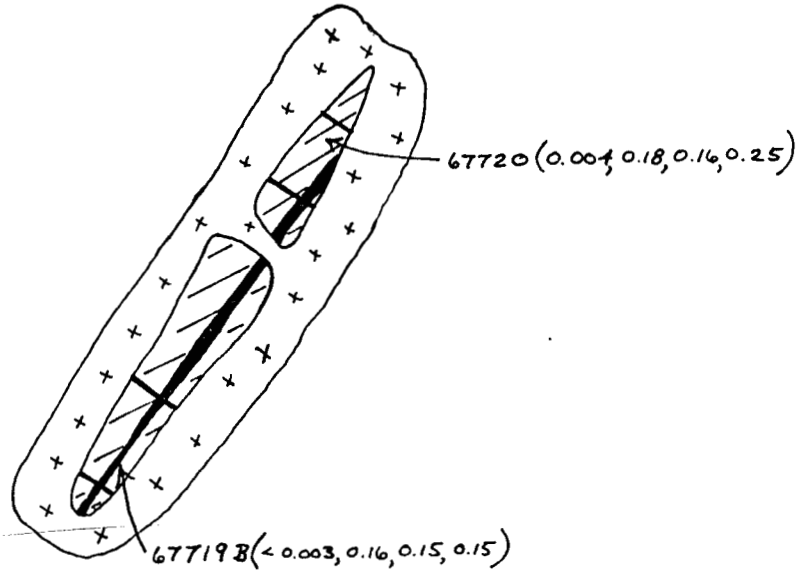
GEOLOGY & GEOCHEMISTRY

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 I CLAIM

NTS 104K/10E

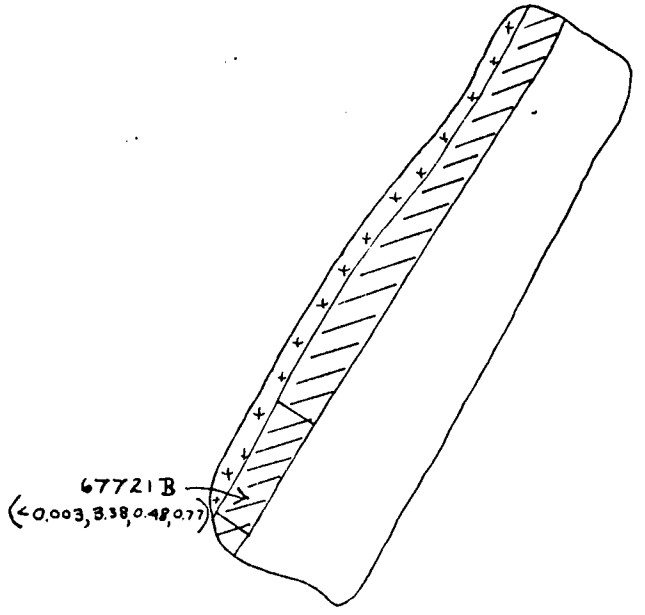
GEOLOGY & GEOCHEMISTRY
TRENCH 3

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

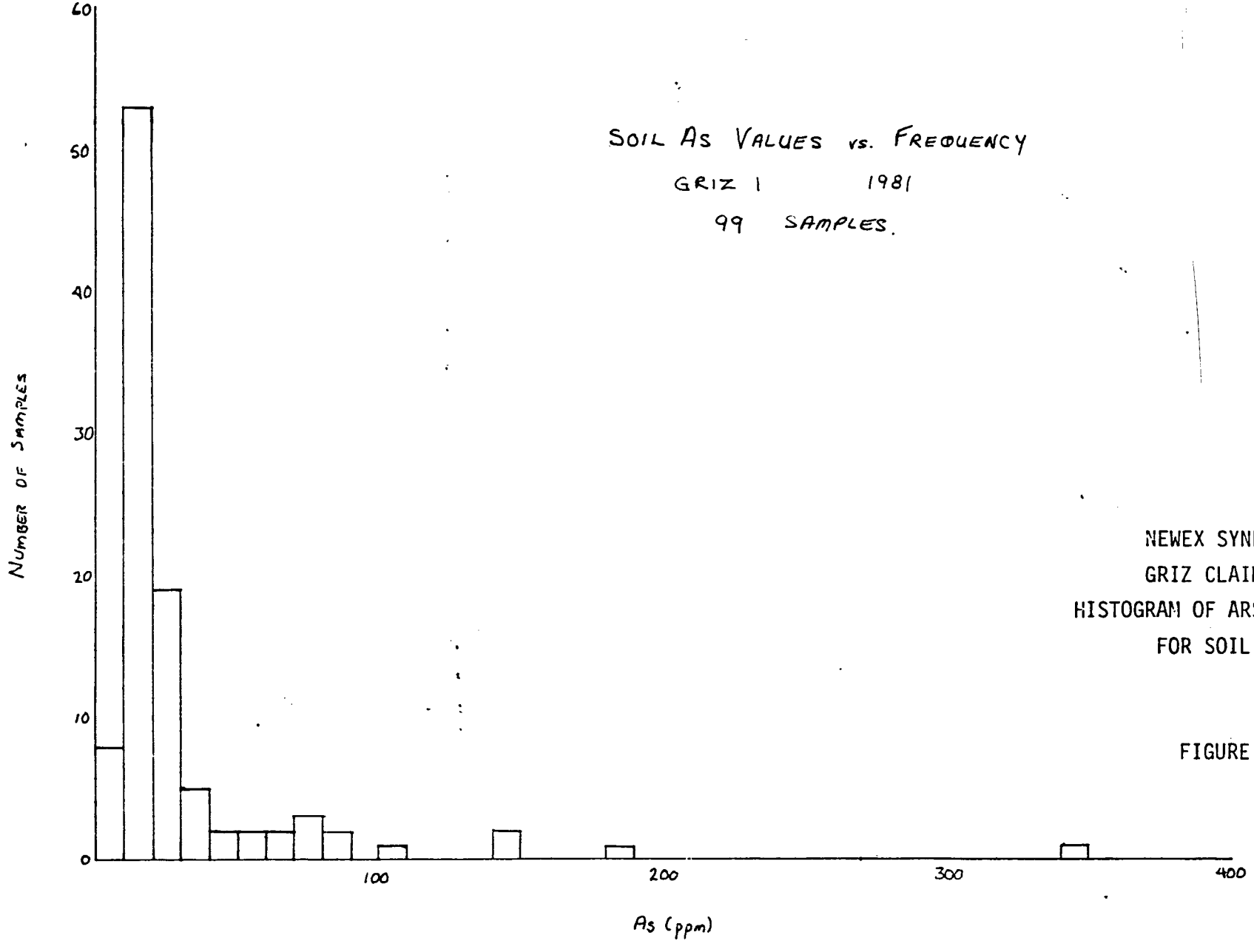
Several anomalous soil results were returned from the sampling on GRIZ 1 and 2. Arsenic, zinc and lead histograms were prepared and are shown in Figures 8 to 10. Arsenic and zinc show similar patterns for the 99 samples taken. There are five anomalous arsenic values and another nine possibly anomalous 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.

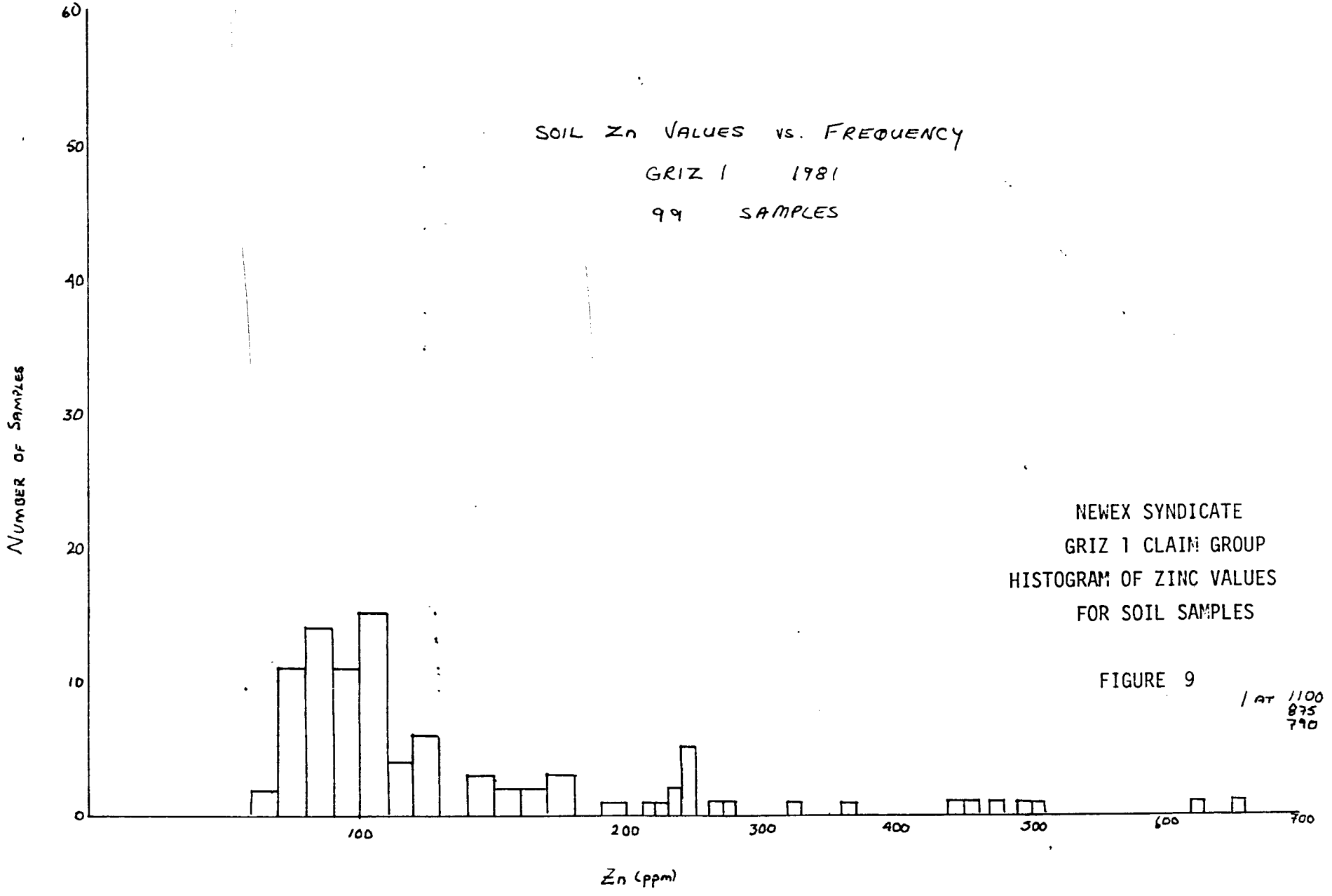
In the reconnaissance soil program one sample was anomalous and ran 20 ppb Au, 0.3 ppm Ag, 9 ppm As, 750 ppm Pb and 245 ppm Zn.

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



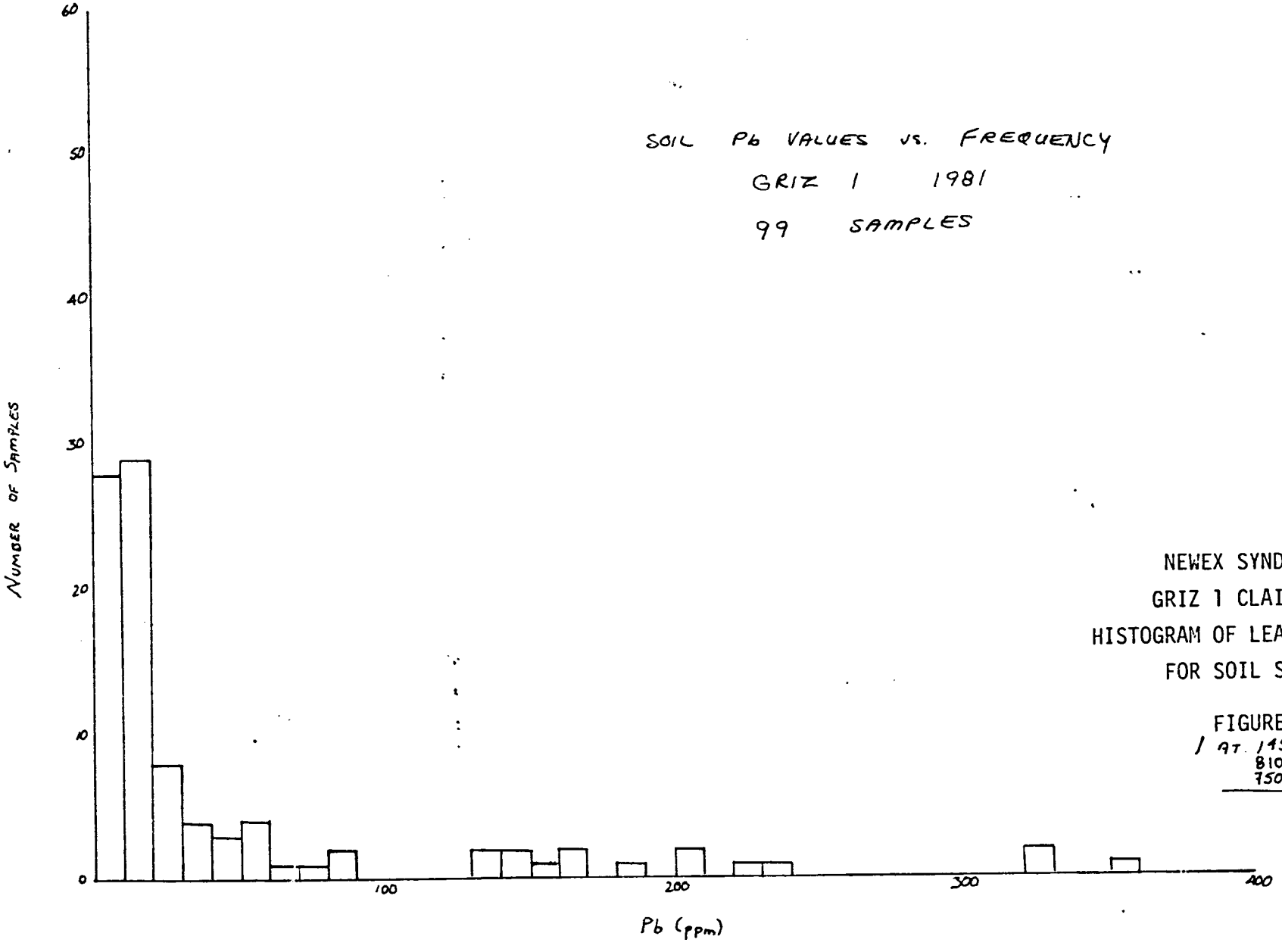
NEWEX SYNDICATE
GRIZ CLAIM GROUP
HISTOGRAM OF ARSENIC VALUES
FOR SOIL SAMPLES

FIGURE 8



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

FIGURE 9



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.

Respetfully 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 N. Lyng

PROJECT NEWEX SYNDICATE

LINE Griz 1

DATE Aug. 15/81

~~N.W.T.~~ ~~ALTA.~~ B.C.

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 rust 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 blebbs - lenses of grey/dk brown sphalerite/quartz - blebs/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 calcite/galena, dk brown sphalerite and qtz or calcite - blebbs 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 bleached oxidized galena in centre surrounded by dk brown sphal. - irregular blebbs 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 wkt fine sugary silica - carbonate replacement between blebboard 0.5 cm veins of blk galena and brown sphal. - lenses of calcite in galena veins - minor blebbs of pyrite and arsenopyrite(?) - Mn staining						0.004	0.18	0.16	0.2
(9)	67721	GRIZ 1 TRENCH #4	"	- wkt to rusty sugary qtz-carb replacement - the replacement is dk brown sometimes due to the presence of sphal. - 0.5 cm veins of pla galena and bro. sphal. - lenses of calcite - colloform qtz vughs - Mn staining.						<0.003	3.38	0.48	0.7
(10)													
(11)												As	
(12)	67710 B	3W, 3N, GRIZ 3.			qtz bx with py.					<10	0.1	68	
(13)	67711	NW of Griz 3			sil. marc., py					<10	0.1	7500	
(14)	67712	NW of Griz 3			sil. marc.(?) py.					<10	0.1	395	
(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

PROJECT Newey

LINE Grit claims and area

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
(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	disseminated 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	900m S of LCP GRIZ 2	altered qfp	rusty	py					<10	0.1	
(7)	77499	50m W of Grade/of 2S GRIZ 3	aphanitic v. grey colour, patchy colliform qtz	siliceous, lt. 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	1
(12)	25723	GRIZ 1, W side	silica, cte veins	rusty v altered						50	0.1	6
(13)	25724	GRIZ 1	qfp, dmay qtz veining	v. rusty altered	abundant py silver-grey mineral, hardness 5		~~angular float from of 3m above.~~ fired str → specularite			50	0.5	7
(14)	25725	GRIZ 1 near top of lge gully	Sil. qfp. qtz veins 5cm wide cutting	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

DATE Aug 13/81 – 14/81

PROJECT Newey

NTS 104 K/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
B1-NKG 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	85
B-118		10	B	rusty dk br	med silty sand	few		flat	—	intr ote near	10	15	0.1	3	76
B-119		5	B	med rusty br	fine sandy silt	mod.		gentle	—	" " "	20	9	0.1	5	72
B-120		7	B-C	v. or-rusty	med sand v. pebbly	none			—	rusty sil, ote, Mn, py intrusive	20	15	0.1	10	63
B-121		3	B	rusty dk br	fine sandy	few		gentle	—		10	9	0.1	3	72
BT-122		10	C	"	fine coarse pebbly	V. few		flat	—	pyritic intr. float	20	9	0.2	75	242
BT-123		15	C	rusty or-br	med + coarse pebbly	few		mod	moss grass blush		<10	11	0.1	72	103
B-124		7	B	med br	fine sandy	"		gentle	"		<10	9	0.1	2	73
B-125		3	B	bright or	fine	V. few		flat	moss	above intr. ote.	<10	16	0.1	1	92
BT-126		8	B	sl. rusty med br	pebbly med-fine	"		mod	—		<10	7	0.1	11	85
B-127		15	B	lt or-Br.	med sandy	few		"	balsam shrubs, trees, weeds		<10	9	0.1	26	100
B-128		7	B	reddish br.	fine pebbly-sand	mod.		~~mod.~~	—	- rusty qfp + qfp talus, one small piece angular ice drusy qtz vein in qfp	<10	20	0.1	34	146
B-129		10	B	rusty dk-br	V. fine	few		flat	—	rusty qfp float.	<10	17	0.1	10	88
BT-130		8	B	rusty or	fine	mod		gentle	moss	silicious qfp float	<10	27	0.1	9	90
B-131		7	B	med br	fine sandy	mod		"	"	btw LCP + IE	<10	17	0.1	10	72
BT-132		—	B	"	med sandy			mod.	—	diabase float	<10	21	0.1	17	105
BT-133		—	B	med rusty br.	fine	few		gentle	—	above qfp ote.	<10	17	0.1	7	91
B-134		3	B	deep br	"	"		flat	—	" " "	<10	22	0.1	6	80
B-135		—	B	rusty med br	"	mod		mod	moss grass	" " "	<10	11	0.1	4	99
B-136		5	B	deep br.	fine silty sand	few		gentle	some moss	at top of lge gully	<10	19	0.1	5	74
B-137		—	B	rusty dk br	fine	mod		mod	—	near qfp ote.	<10	29	0.1	9	112

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GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

Newex

SAMPLER D. KIRKICKI / E. SIDEY

DATE AUG 14 / 1981

PROJECT GRIZ 1 / SOIL GRID.

NTS 104 K/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.	—	qfp. 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	qfp. float around.	20	0.1	15	31	248
81-NXG1 B	0+00S 0+80E	15	A	black brown	silty sand	high		level	moss flowers	" "	10	0.1	14	22	365
81-NXG1 B	0+00S 1+00E	→	No		Sample					Too Organic.	sto				
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	"	qfp 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	159
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	105
81-NXG2 B-1	B-1 100M INT.	25 cm.	A	light brown	silty sand	mod		mod. slope	pines grassy	qfp float in hole. at corner post 25 Griz 2 Claim.	10	0.1	12	5	125
81-NXG2 B-2	B-2	20	A	rich brown	silty sand.	mod		gentle slope	moss pines	may be frost boil with qfp float	<10	0.1	14	14	88
81-NXG2 B-3	B-3	20	A	dark brown	silty sand	high		steep slope	"		20	0.1	20	144	190
81-NXG2 B-4	B-4	15	A	dark brown	silty sand.	high		gentle slope	"	slight ridge above qfp 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	98
81-NXG2 B-6	B-6	20	A	med. brown	granular sand	mod.		gentle slope	"	near post 15	<10	0.1	14	14	72
81-NXG2 B-7	B-7	30	B	dark brown	fine	mod.		mod. slope	"		<10	0.1	15	23	88
81-NXG2 B-8	B-8	25	B	brownish brown	sandy silty.	mod.		gentle down.	"		<10	0.1	12	2	105
81-NXG2 B-9	B-9.	25	A	dark brown	granular sand	mod.		"	"		<10	0.1	15	10	72

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GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

Newey

SAMPLER E SIDEY / D. KAPICKI

DATE AUG 14 / 1981

PROJECT 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 W. Hughes Pb-Zn showing	<10	0.1	17	12	105
81-NXG-B	1+00S 0+40E	16	A	rich brown	sandy	low		"	"	" "	20	0.1	25	2	80
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	118
81-NXG-B	1+00S 0+80E	20	A	med. brown	sandy clay	low		top of gully	"		<10	0.1	41	9	470
81-NXG-B	1+00S 1+00E	10	A	rusty brown	silty sand	low		gentle slope	buck brush	side of slope to gully, gfp float. below is W. Hughes Gold showing	10	3.8	79	230	179
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	100
81-NXG-B	1+00S 1+40E	15	B	dark brown	granular	med.		level	"	gfp float in hole.	<10	0.1	12	5	72
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	102
81-NXG-B	1+00S 2+00E	10	A	reddish brown	silty sand	low		gentle down	moss	" "	<10	0.1	27	14	108
81-NXG-B	1+00S 2+20E	20	A	med. brown	"	mod.		"	"	mossy plateau (extension from galena showing)	<10	0.1	23	8	87
81-NXG-B	1+00S 2+40E	40	B	dark brown	"	low		"	"	" "	<10	0.1	23	8	105
81-NXG-B	1+00S 2+60E	20	A	med. brown	"	"		"	"	" "	<10	0.1	22	10	87
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 balsams	- by talus at edge of gfp outcrop	<10	0.1	20	19	115
81-NXG-B	0+00S 0+20W	5	A	dark brown	granular sand	low		mod. slope	—	upward on large gfp outcrop	10	0.1	12	54	128
81-NXG-B	0+00S 0+40W	8	A	dark brown	"	mod.		steep	—	" "	<10	0.1	10	21	245
81-NXG-B	0+00S 0+60W	10	A	med. brown	"	~~steep~~ mod.		steep	grassy	" "	<10	0.1	36	11	83

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GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

Newer

SAMPLER D KAPUSY / E SIDEY

DATE AUG. 13 / 14

PROJECT GRID 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
[illegible] ET	5+00S 1+00E	10	B							quartz [illegible]	<10	0.2	63	202	455
[illegible] F	5+00S 1+80E	15	B								<10	0.3	140	162	620
[illegible] F	[illegible] 2+00E	15	B								<10	1.6	500	810	1100
[illegible] F	[illegible] 2+00E	10	B								<10	0.1	140	350	790
[illegible]	[illegible] 2+20E	"	B								<10	0.1	57	225	440
[illegible] F	[illegible] 2+40E	10	B								10	0.1	77	142	266
[illegible] F	[illegible] 2+60E	"	B								<10	0.1	17	22	125
[illegible] F	[illegible] 2+80E	"	B								<10	0.1	17	41	184
81-NXG-1 F	5+00S 3+40E	30	B	Med. Brown	"	"		"		"	20	0.1	12	80	210
81-NXG-1 B	5+00S 3+20E	20	A	Light [illegible]	[illegible]				NONE		<10	0.7	15	150	228
81-NXG-1 BT	5+00S 3+00E			[illegible]	[illegible]						20	0.1	15	138	240
81-NXG-1 B	[illegible] 2+80E							"			<10	2.5	340	1450	875
81-NXG-1 C	[illegible] 2+60E			[illegible]	[illegible]	[illegible]					<10	0.1	43	62	230
81-NXG-1 BT	[illegible] 2+40E										<10	0.1	24	43	160
81-NXG-1 [illegible]	[illegible] 2+20E										<10	0.1	22	12	103
81-NXG-1 B	[illegible] 2+00E										<10	0.1	20	19	150
81-NXG-1 BT	[illegible] 1+80E										<10	0.1	9	188	330
81-NXG-1 [illegible]	[illegible] 1+60E									Heavy [illegible]					
81-NXG-1 B	[illegible] 1+40E										<10	0.1	81	35	165
81-NXG-1 [illegible]	[illegible] 1+20E										<10	0.8	180	327	620

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GEOCHEMICAL DATA SHEET – SOIL SAMPLING

~~B.C. GOLD SYNDICATE~~

Newey

SAMPLER D. KRAPICKI / E. SIDEY

DATE AUG 13. / 1981

PROJECT GRIZZ - 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~~ float ↑	grassy	qfp float flows around	10	1.3	100	325	500
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	650
81-NXG-BT	2+00S 0+20W	5	A	light brown	pebbly	"		" 39°	"	qfp talus.	20	0.4	85	205	495
81-NXG-B	2+00S 0+40W	10	A	brown	sandy silt	mod.		"	"	" "	<10	0.5	35	54	235
81-NXG-BT	2+00S 0+60W	5	A	light brown	pebbly sand	low		"	"	" "	20	0.1	12	33	178
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	122
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	145
81-NXG-B	1+00S 0+20W	20	A	dark brown	silty sand	mod.		plateau flat	moss grasses fines.	qfp float abundant and frost boils.	10	0.1	12	1	80
81-NXG-B	1+00S 0+40W	15	B	light brown	"	"		"	"	good profile.	<10	0.1	22	4	100
81-NXG-B	1+00S 0+60W	15	B	dark brown	"	"		"	"	good soils.	40	0.1	12	4	85
81-NXG-B	1+00S 0+80W	20	B	"	"	"		"	"	"	10	0.1	30	17	105
81-NXG-B	1+00S 1+00W	16	A	"	"	"		"	"	near Mikes gold showing.	10	1.6	63	162	242
81-NXG-B	1+00S 1+20W	12	A	"	granitic	"		small gully	grassy		<10	0.4	38	80	270
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	98
81-NXG-B	1+00S 1+60W	20	B	dark brown	silty	mod.		upbil	grassy	taken from base of qfp outcrop.	10	0.1	12	5	100
81-NXG-B	1+00S 1+80W	70		Sample						large tubes and abandantly shrub, 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

J.C. STEPHEN EXPLORATIONS LTD.

GEOCHEMICAL DATA SHEET – SOIL SAMPLING

B.C. GOLD SYNDICATE

SAMPLER D. KRAMCKI / 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-NXG 2-B-10	B-10 100 M. Int.	20 cm.	till A	med. brown	sandy	mod.		gentle	pines, moss		<10	0.1	17	11	103
81-NXG 2 B-11	B-11	25	B	med. brown	sandy	mod.		gentle	"		<10	0.1	14	6	91
81-NXG 2 B-12	B-12	20	A	reddish brown	granular sand	mod.		gentle	"	-start of line going N on Grid 2 and (Emu Posts)	<10	0.1	24	13	108
81-NXG 2 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	128
81-NXG 2 B-14	B-14	25	A	dark brown	"	"		gentle slope	"	swampy surrounds.	<10	0.1	14	2	71
81-NXG 2 B-15	B-15	30	A	dark brown	"	"		"	"		<10	0.1	11	1	65
81-NXG 2 B-16	B-16	25	A	med. brown	granular	low		"	"		<10	0.1	19	10	92

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.

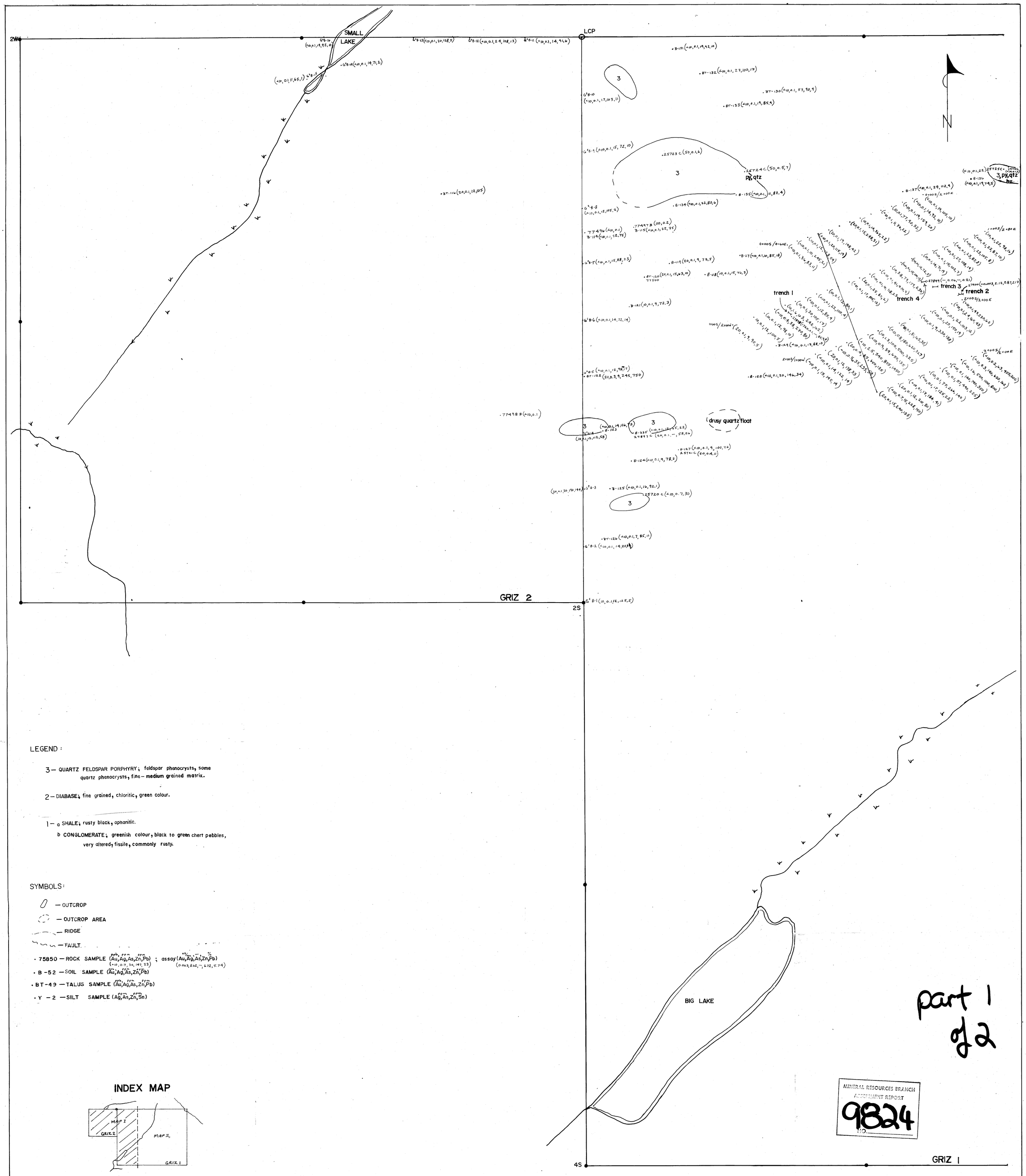
May to October 1980 Geologist with J.C. Stephen Explorations Ltd.

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.
JEAN PAUTLER



LEGEND :

3 — QUARTZ FELDSPAR PORPHYRY; feldspar phenocrysts, some quartz phenocrysts, fine – medium grained matrix.

2 — DIABASE; fine grained, chloritic, green colour.

1 — a SHALE; rusty black, aphanitic.

b CONGLOMERATE; greenish colour, black to green chert pebbles, very altered, fissile, commonly rusty.

SYMBOLS:

— OUTCROP

— OUTCROP AREA

— RIDGE

— FAULT.

• 75850 — ROCK SAMPLE (ppb Au; ppm Ag, As, Zn, Pb) (+10, 0.7, 30, 147, 33) ; assay (oz/T Au, Ag; — ; % As, Zn, Pb) (0.003, 8.42, —, 6.72, 5.74)

• B-52 — SOIL SAMPLE (ppb Au; ppm Ag, As, Zn, Pb)

• BT-49 — TALUS SAMPLE (ppb Au; ppm Ag, As, Zn, Pb)

• Y-2 — SILT SAMPLE (ppm Ag, As, Zn, Sn)

INDEX MAP

part 1 of 2

J.C. STEPHEN EXPLORATIONS LTD.

NEWEX SYNDICATE

GRIZ 1 & 2 CLAIMS

NTS: 104 K/10E

GEOLOGY & GEOCHEMISTRY

SCALE: 1:2500 0 10 20 30 40 50 100 Metres AUG, 1981

MAP I

5E

3, qtz bx, py.

8-337 (<10, 0.1, 7, 88, 13)

8-338 (<10, 0.1, 12, 95, 24)

25727C (<10, 0.1, 15)

8-334 (<10, 0.1, 17, 80, 8)

8-339 (<10, 0.1, 4, 60, 5)

BRIDGE LAKE

N

27894C (10, 0.1, 140, 40)

8-333 (<10, 0.1, 7, 70, 8)

8-69 (<10, 0.1, 15, 80, 8)

3

8-68 (<10, 0.1, 11, 62.5)

8-67 (<10, 0.1, 12, 88.8)

8-66 (<10, 0.1, 15, 70, 4)

8-65 (<10, 0.1, 11, 80.5)

27893C (—, 3.68, —, 0.01)

8-78 (<10, 0.1, 17, 78, 4)

3

27894C (10, 0.1, —, 220, 40)

27894C (<10)

27895 (10, 0.1, —, 135, 118)

8-339 (<10, 0.1, 16, 90, 20)

8-332 (<10, 0.3, 15, 105, 4)

3, ga, sp, py, sil, bx.

77462 B (<0.003, 0.59, —, 0.36, 0.51)
77463 (10, 0.1)
27888C (<0.003, 0.01, —, 0.02)
27891 (<0.003, 0.01, —, 0.02)

8-64 (<10, 0.1, 14, 78, 20)

8-62 (20, 0.1, 20, 118, 44)

77461B (20, 0.5)

8-340 (<10, 0.1, 17, 145, 128)

8-85 (<10, 0.1, 20, 110, 12)

ga, sp, py, qtz bx.

8-84 (<10, 0.1, 17, 100, 15)

27701 B (0.005, 0.04, —, 0.18, 0.18)

77469 (30, 0.1, —, 12)

3

77470 B (10, 0.1, —, 180)

3 77466 (20, 0.1)

3, bx 77467 B (<10, 0.1)

3 77468 B (<10, 0.1)

part 1 of 2

5E, 4S

LEGEND:
SEE MAP I

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MAP II