

2789

GEOLOGICAL AND GEOCHEMICAL REPORT

ON

NIZ GROUP OF MINERAL CLAIMS

OPY LAKE AREA

Liard, M. D.

British Columbia

Lat. $59^{\circ}00'N$; Long. $129^{\circ}00'W$.

N.T.S. 104P

On Behalf Of

Jacob Forster

Field Work Between

September 10 and October 4, 1970

Report By

Charles E. Zimmerman

December 12, 1970

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1) INTRODUCTION

This report summarizes the geological and geochemical reconnaissance work supervised by the writer during the summer of 1970 on the Nizi Group of claims at longitude 129° and latitude 59° in the Cry Lake Area of British Columbia.

2) GEOLOGY

The rocks in the central portion of the property are mainly cherty quartzites and are flanked on the northwest and southeast by metamorphosed intrusive rocks, probably a metadiorite. Within the cherty quartzites and metadiorites are intrusive stocks or plugs of quartz -feldspar porphyry and an occurrence of rhyolite porphyry (see figure 2).

3) MINERALIZATION

Mineralization occurs mainly as vein or shear-fillings of sphalerite, minor galena and some narrow showings of stibnite. This form of mineralization is generally accompanied by a large gossan area. Some erratic occurrences of chalcopyrite were observed, generally outside the gossan area in the intrusive rocks with accompanying minor pyrite and malachite staining. Heavy, coarse grains of euhedral pyrite were observed in one showing of quartz -feldspar porphyry.

4) GEOCHEMICAL SURVEY

Two separate areas were geochemical soil sampled (see figure 1).

The first linear traverse was made over a highly sheared zone on mineral claims 20, 37 and 39. This traverse yielded soil samples 1 to 24 (see appendix 1 for results).

The second soil sample grid was put in near Zinc Lake (see

figure 3), this survey yielded samples 25 to 84 (see appendix 1 for results). All samples were collected with a maddox and shovel from the "B" soil horizon. The samples were placed in paper soil sample bags and shipped to the Bondar-Clegg Laboratory in North Vancouver. The laboratory dried the samples, seperated the -80 mesh fraction for analyzes. The samples were digested with a hot aqua regia solution and analyzed on an atomic absorption unit for Cu, Pb, Zn. The sample interval in most cases was 100 feet.

5) GEOCHEMICAL RESULTS

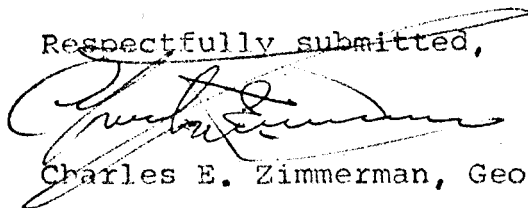
The single line traverse generally confirmed a narrow zone of sphalerite, minor galena mineralization (see figure 2).

The grid survey (see figure 3) also revealed a number of high Zn-Pb zones, also probably indicative of narrow, underlying zones of sphalerite and minor galena mineralization. No significantly high responses of copper were given by either survey.

6) RECOMMENDATION

It is recommended that a program of trenching be continued, preferrably with the aid of a packsack drill and dynamite to facilitate obtaining less weathered and leached samples of the underlying rock. A 750 foot line spaced geochemical soil survey with 400 foot sample intervals should be conducted over the whole claim group. Any subsequent geochemical analyses should include Cu as a large, low grade mineral occurrence could exist on the property.

Respectfully submitted,



Charles E. Zimmerman, Geologist

--- GEOCHEMICAL TRAVERSE

60	59	40	39	20	19
58	57	38	37	18	17
56	55	36	35	16	15
54	53	34	33	14	13
52	51	32	31	12	11
50	49	30	29	10	9
48	47	28	27	8	7
46	45	26	25	6	5
44	43	24	23	4	3
42	41	22	21	2	1

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2789 MAP

LOCATION
NIZI CRP.

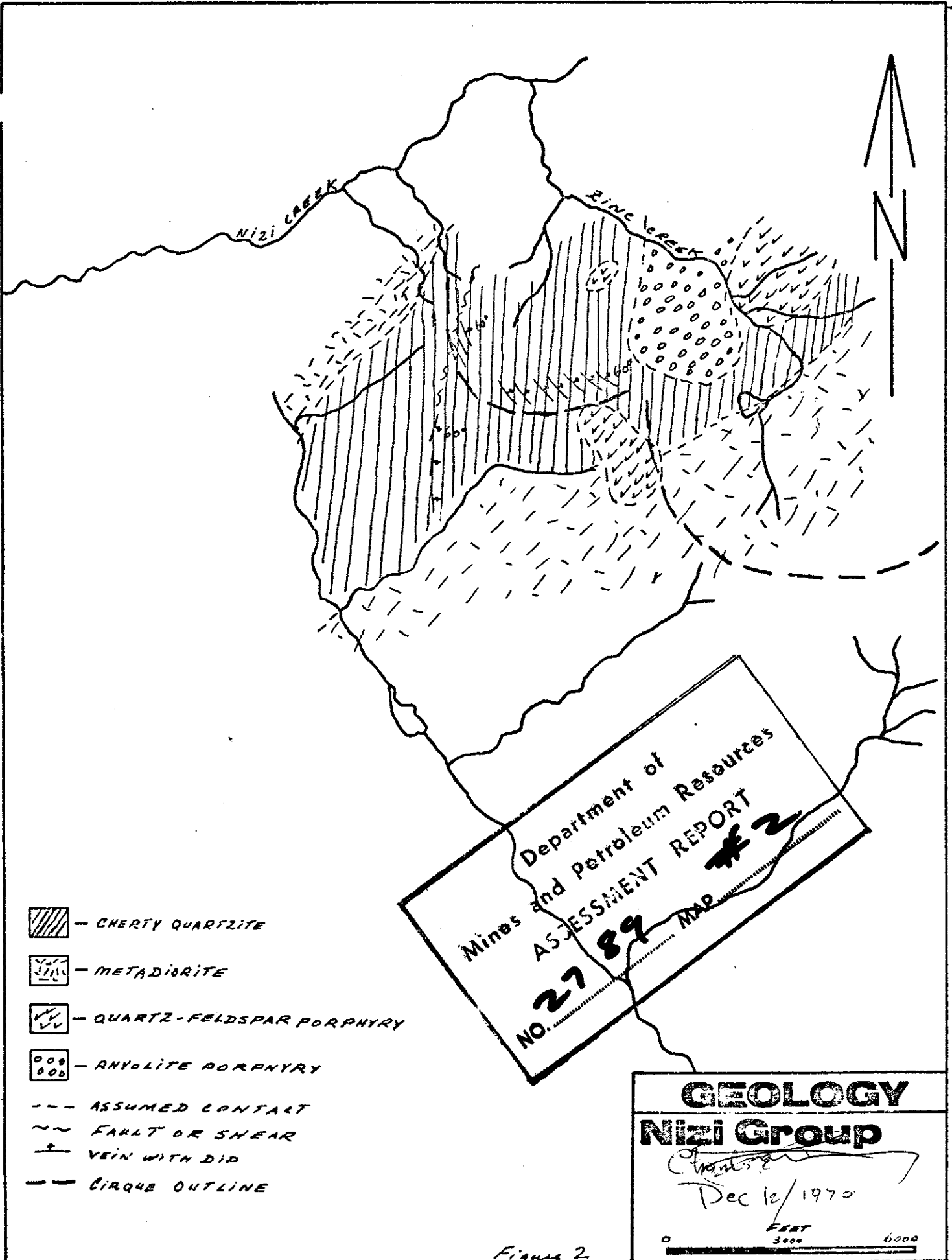
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Dec 19/1970.









0 FEET 3000 6000

Figure 1



-129°

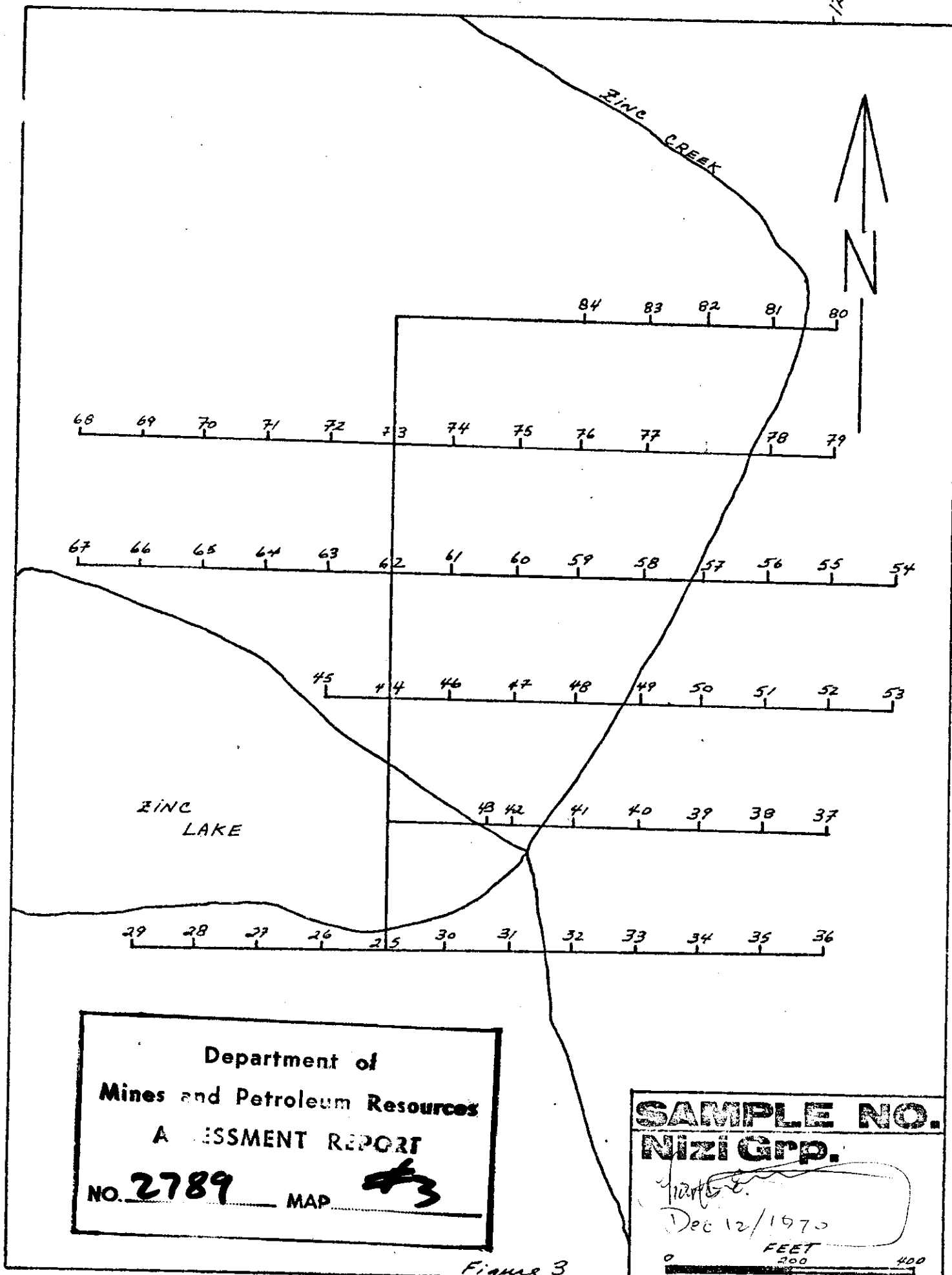


-  - **CHERTY QUARTZITE**
-  - **METADIORITE**
-  - **QUARTZ-FELDSPAR PORPHYRY**
-  - **RYHOLITE PORPHYRY**
-  - **ASSUMED CONTACT**
-  - **FAULT OR SHEAR**
-  - **VEIN WITH DIP**
-  - **CIRQUE OUTLINE**

Department of
 Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 2789 MAP #2

GEOLOGY
Nizi Group
Chantre
 Dec 12/1970
 FEET
 0 3000 6000

Figure 2



Department of
Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **2789** MAP **3**

SAMPLE NO.
Nizi Grp.
 Dec 12/1970
 FEET
 0 200 400

Figure 3

BONDAR-CLEGG & COMPANY LTD.

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.

PHONE 988-5315

SITE REC'D October 9, 1970

GEOCHEMICAL LAB REPORT

No. 20-740

Project NIZ

Extraction..... Hot Aqua Regia..... From..... Mr. Charles Zimmerman.....
 Method..... Atomic Absorption..... Date..... Completed October 16..... 1970.....
 Fraction Used..... -80 Mesh..... Analyst..... K.B.....

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	REMARKS
NIZ-1	28	50	255	NIZ-32	22	195	1070	
NIZ-2	40	124	670	NIZ-33	29	160	1200	
NIZ-3	37	350	680	NIZ-34	21	70	560	
NIZ-4	112	500	1750	NIZ-35	24	56	350	
NIZ-5	90	176	700	NIZ-36	27	200	630	
NIZ-6	47	800	2400	NIZ-37	30	115	425	
NIZ-7	45	300	1100	NIZ-38	30	88	360	
NIZ-8	22	97	420	NIZ-39	21	68	265	
NIZ-9	45	245	1020	NIZ-40	31	50	235	
NIZ-10	25	130	410	NIZ-41	32	80	300	
NIZ-11	30	110	345	NIZ-42	26	170	910	
NIZ-12	35	95	600	NIZ-43	32	185	1520	
NIZ-13	32	125	370	NIZ-44	58	74	390	
NIZ-14	23	105	250	NIZ-45	50	68	305	
NIZ-15	28	90	340	NIZ-46	32	100	270	
NIZ-16	28	158	460	NIZ-47	50	100	485	
NIZ-17	41	210	760	NIZ-48	36	70	240	
NIZ-18	34	200	760	NIZ-49	50	172	410	
NIZ-19	30	110	600	NIZ-50	38	80	250	
NIZ-20	20	46	190	NIZ-51	31	61	245	
NIZ-21	30	140	840	NIZ-52	25	62	230	
NIZ-22	20	53	270	NIZ-53	24	75	245	
NIZ-23	30	30	125	NIZ-54	50	79	260	
NIZ-24	20	195	300	NIZ-55	32	49	215	
NIZ-25	42	30	335	NIZ-56	40	90	290	
NIZ-26	46	32	220	NIZ-57	38	98	280	
NIZ-27	35	50	250	NIZ-58	40	84	425	
NIZ-28	28	82	270	NIZ-59	40	96	370	
NIZ-29	26	100	560	NIZ-60	49	100	380	
NIZ-30	50	30	770	NIZ-61	44	100	325	
NIZ-31	22	260	1080	NIZ-62	50	90	415	

APPENDIX II

PERSONNEL QUALIFICATIONS

Name: Zimmerman, Charles E.
Education: B.Sc., University of Buenos Aires,
Argentina
M.Sc., University of Arizona, Tucson
Professional Associations: Application before Association of
Professional Engineers of British Columbia
Experience: Engaged in the profession since 1960.
Asarco; W. R. Grace; Falconbridge Nickel;
P. H. Sevensma Consultant; Montgomery,
Wolfe and Associates

Presently contracting.

Name: Kerr, Jerry
Education: High School Diploma
Experience: Prospector, driller, field assistant for
three years.

Name: Forster, Jacob
Education: Practical
Experience: 10 years prospecting and field work.

APPENDIX III

PERSONNEL AND DATES WORKED

Geochemical Crew (J. Forster and J. Kerr)

J. Forster	J. Kerr
Sept. 10	Sept. 28
Sept. 11	Sept. 29
Sept. 28	Sept. 30
Sept. 29	
Sept. 30	

C. E. Zimmerman

Geological Mapping

Sept. 10
Sept. 11
Sept. 28
Sept. 29
Sept. 30

C. E. Zimmerman

Compilation of Data, Reports, Maps, Etc.

Nov. 11
Nov. 12
Nov. 13

Dec. 12

Declared before me at the *City*
of *Nanaimo*, in the
Province of British Columbia, this *17*
day of *Dec.* *1970*, A.D. *J. Forster*

Julie Turner
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.
Sub-mining Recorder

APPENDIX IV
COST BREAKDOWN

A.	<u>GEOCHEMICAL SURVEY</u> - J. Forster and J. Kerr	
	2 men for 8 days @ \$40/day	\$ 320.00
	Equipment, supplies	50.00
	Analyzes - 84 @ \$3 each	<u>252.00</u>
		\$ 622.00
B.	<u>GEOLOGICAL</u>	
	C. E. Zimmerman	
	Mapping 5 days @ \$100/day	500.00
	Report and Map preparation - 4 days	<u>400.00</u>
		\$ 900.00
C.	<u>BOARD LOSS</u>	
	13 days @ \$12/day	156.00
D.	<u>TRANSPORTATION</u>	
	4½ hours @ \$250/hour (Jet-Ranger time actually used working on the Niz property)	<u>\$1,125.00</u>
	Total	<u>\$2,803.00</u>

Declared before me at the City
of Nanaimo, in the
Province of British Columbia, this 17
day of Dec. 1970, A.D.

J. Forster

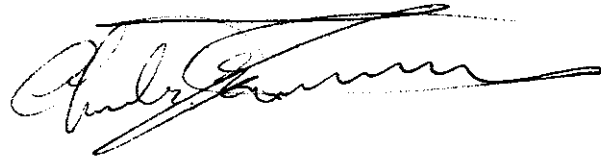
Jill Suran
A Commissioner for taking Affidavits within British Columbia or
A Notary Public in and for the Province of British Columbia.

Sub-mining Recorder

ADDENDUM

I. Charles E. Zimmerman, am a graduate geologist. I graduated in 1960 in Buenos Aires, Argentina with a B.Sc., (major Economic Geology) and an M.Sc. in 1967 from the University of Arizona, Tucson. For the past nine years I have worked as a geologist for various firms.

At this time my application for certification as a Professional Engineer in the Province of British Columbia is before the Association of Professional Engineers.

A handwritten signature in cursive script, appearing to read "Charles E. Zimmerman", written in dark ink. The signature is fluid and somewhat stylized, with a long horizontal stroke at the end.