

80-4871-# 8139

ORELL COPPER MINES LTD.

BOWLER CREEK

Diamond Drilling and
Geology Report 1979

8139

ASSESSMENT REPORT

NATURE OF REPORT:	DIAMOND DRILLING & GEOLOGY MAPPING
CLAIMS:	ZINC 1-6 BC-1-4 INCLUSIVE
MINING DIVISION:	KAMLOOPS
NATIONAL TOPOGRAPHIC SERIES:	82M/3W
LATITUDE:	51°00' NORTH
LONGITUDE:	119°30' WEST
OWNER & OPERATOR:	ORELL COPPER MINES LTD.
AUTHOR:	JAMES BLACK, P. ENG.
DATE:	JUNE 21, 1980

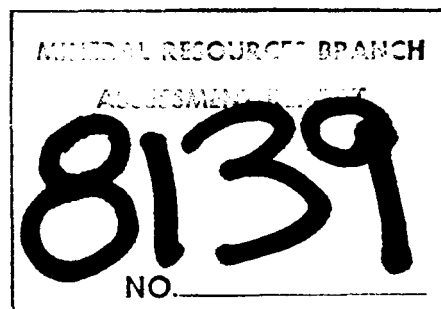


TABLE OF CONTENTS

INTRODUCTION & CLAIMS

CLAIMS AND OWNERSHIP

HISTORY AND PREVIOUS WORK

GEOLOGY

DRILL PROGRAM

CORE STORAGE

STATEMENT OF COSTS

QUALIFICATIONS

CERTIFICATE

DRILL LOGS

APPENDED

K-79-1 I-79-8
K-79-2 K-79-9
J-79-3 I-79-10
J-79-4 I-79-11
I-79-5A G-79-12
I-79-6 G-79-13
I-79-7 H-79-14

DRILL SITE PLAN 1:5000

APPENDED

GEOLOGY PLAN 1 & 2 1:1000

APPENDED

INTRODUCTION

The Zinc 1-6 and BC 1-4 group of mineral claims are located on the eastern edge of the Adams Plateau and are shown on NTS-82M/3W. They are accessible by good logging road from the north side of Shuswap Lake. The logging road leaves Shuswap Lake one mile east of the Adams River bridge.

CLAIMS AND OWNERSHIP

The property consists of the following claim:

Zinc 1 - 6

BC 1 - 4

and are owned and operated by Orell Copper Mines Ltd.

HISTORY AND PREVIOUS WORK

Plateau metals worked on these claims early in the 1950's. Pyrite, pyrrhotite, magnetite showings have been known and explored over a number of years by various companies. In 1976, Craigmont Mines Ltd. optioned the property from Orell Copper Mines Ltd. and geochemical geophysical and geological surveys which were followed by an exploration diamond drilling program. They returned the property to Orell Copper Mines in the fall of 1978. J.M. Black, P.Eng. consolidated Craigmont's work and recommended the drilling program reported herein.

GEOLOGY

The claims are underlain by a series of volcanic and sedimentary rocks which were laid under relatively deep water conditions. The environment during deposition was acidic due to vulcanism and large thicknesses of chert were deposited. This chert is partly angillaceous and or calcareous. Intercalated with these impure cherts are andesitic flows and a few sedimentary horizons. Concordant massive sulphide bodies consisting of pyrrhotite, pyrite, and minor chalcopyrite are present and were drilled. The K-Zone appears to contain an economic grade of zinc mineralization.

DRILL PROGRAM

A drill program as laid out by J.M. Black, P.Eng. was closely followed. This program was based on geophysical anomalies enforced by geochemical data and surface outcrop. Five parallel zones were investigated by fourteen AQ drill holes. The results of this drilling is inconclusive as the program was suspended for financial reasons. The K-Zone should be further investigated. Six hundred and eleven metres of diamond drilling AQ core was drilled.

CORE STORAGE

The core is presently on the property but will shortly be stored in Salmon Arm,

STATEMENT OF COSTS

(i)	Charles Brown, P.Eng.	2 months	\$ 4,112.16
	Helper	2 months	1,114.15
	Prospecting, Cecil Kane	7 days	500.00
	James Black, P.Eng. Consultant		889.34
	Workmens Compensation Board		339.44
(ii)	Camp, Supplies & Communications		3,545.95
	TruckGas & Oil & 4 X 4 Rent		1,475.08
(iii)	Drilling, H. Allen Diamond Drilling Ltd.		
	Box 1397, Merritt, B.C.		26,820.25
(iv)	Assays		589.25
(v)	Drafting		510.75
(vi)	Equipment Rental, Scintilometer		201.85
			<hr/>
			\$40,098.22
			<hr/>

Group BCA	Drilling	\$24,820.25
	Geogogical	10,077.97
Group BCB	Drilling	4,000.00
	Geogogical	3,200.00

AUTHOR'S QUALIFICATIONS

I am a graduate in geological engineering from the University of B.C. and have a PhD. in economic geology from McGill University. I am a registered geological engineer with the Association of Professional Engineers of B.C. I have had 40 years experience in examination and exploration of mineral occurrences, especially in the Cordilleran area.



J.M. Black, P.Eng.

CERTIFICATE


I, J. M. Black of North Vancouver, B.C. do hereby certify that

1) I am a geological engineer with an office at 843 Prospect Avenue, North Vancouver, B.C. V7R 2M2.

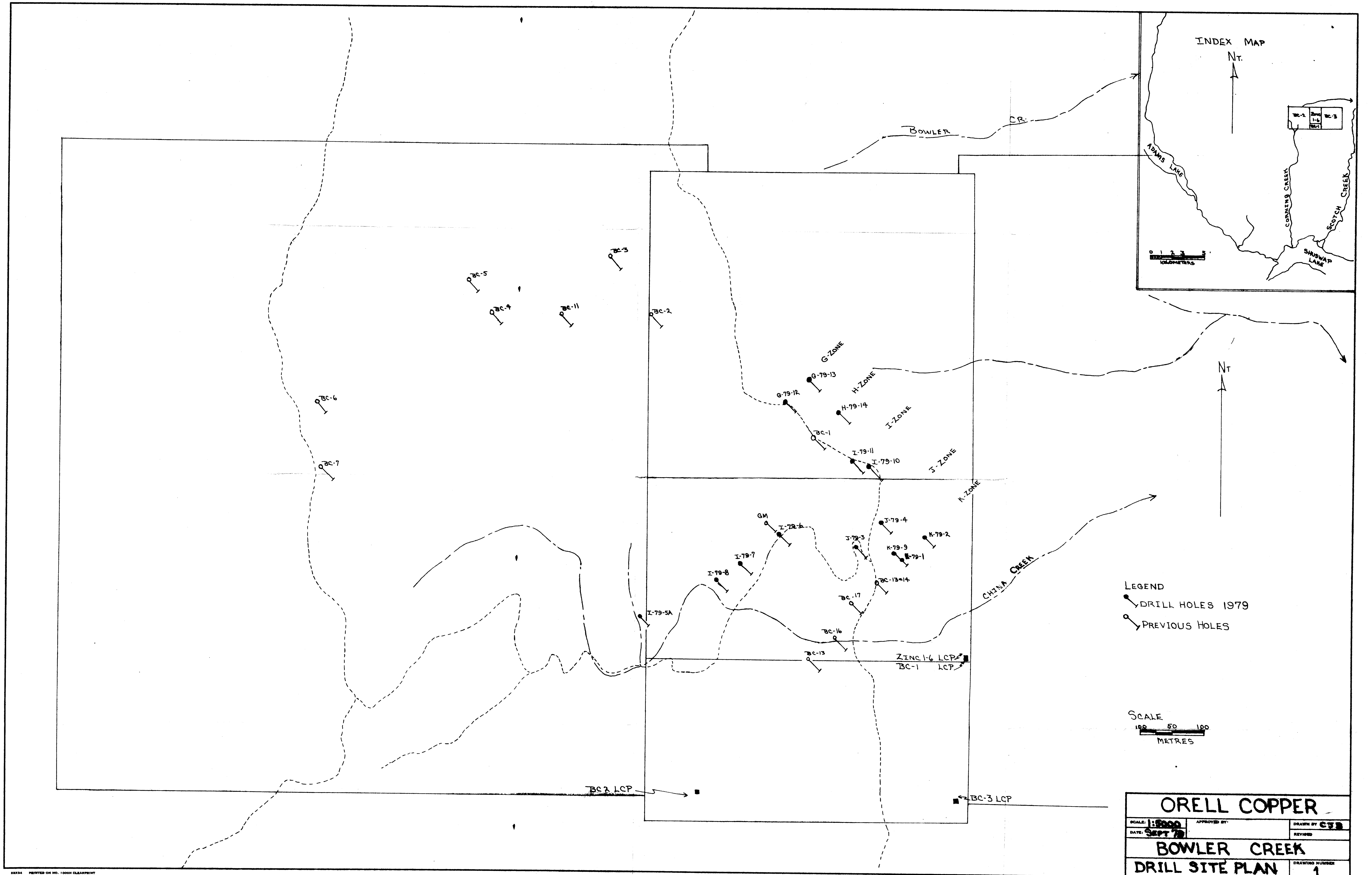
2) I am a graduate of UBC with degree of M.Sc. in geological engineering, 1935. I am a graduate of McGill University with degree of PhD. in economic geology, 1942. I am a member of the Association of Professional Engineers of B.C. I have practiced my profession for 40 years.

3) I am the author of the accompanying report, which is based on personal knowledge of the property.

4) I have no beneficial interest in the property or claims discussed and I do not expect to receive any.



J. M. Black, P.Eng.



LEGEND
 ● DRILL HOLES 1979
 ○ PREVIOUS HOLES

SCALE
 100 50 100
 METRES

ORELL COPPER		
SCALE: 1:5000	APPROVED BY:	DRAWN BY: CTD
DATE: SEPT 79		REVISED:
BOWLER CREEK		
DRILL SITE PLAN		DRAWING NUMBER: 1

MINERAL RESOURCES BRANCH
 EXPLORATION REPORT
8139
 NO.

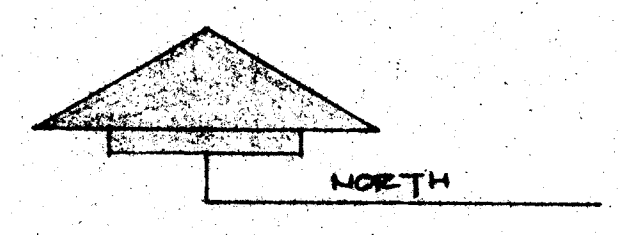
22234 PRINTED ON NO. 100GM CLEARFILM



LOCATION MAP
1:1000,000

LEGEND

- 2 GNEISS/STONE
- 3 CHERT
- 6 VARIES CHERT SEDIMENTARY TUFF
- 4 GRANITE DYKE
- SWAMP
- DIP & STRIKE SWAMP
- PITS
- OUTCROPS

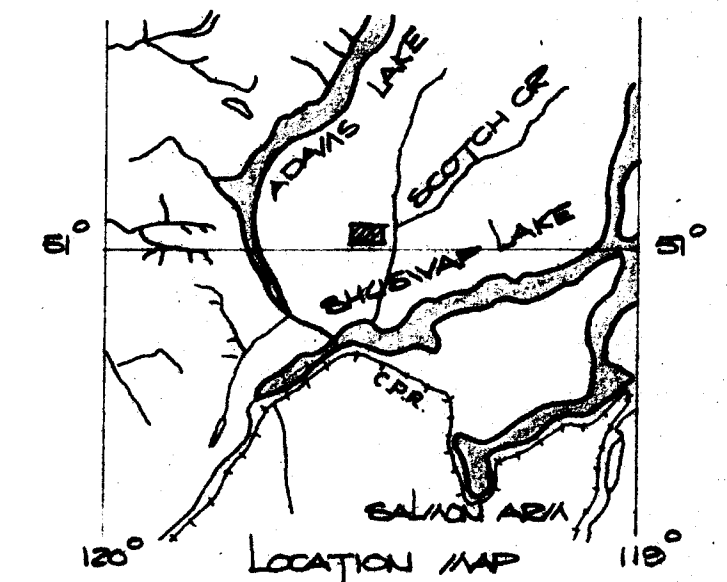


MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8139
NO.

SCALE METERS

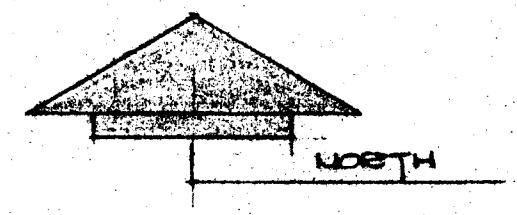
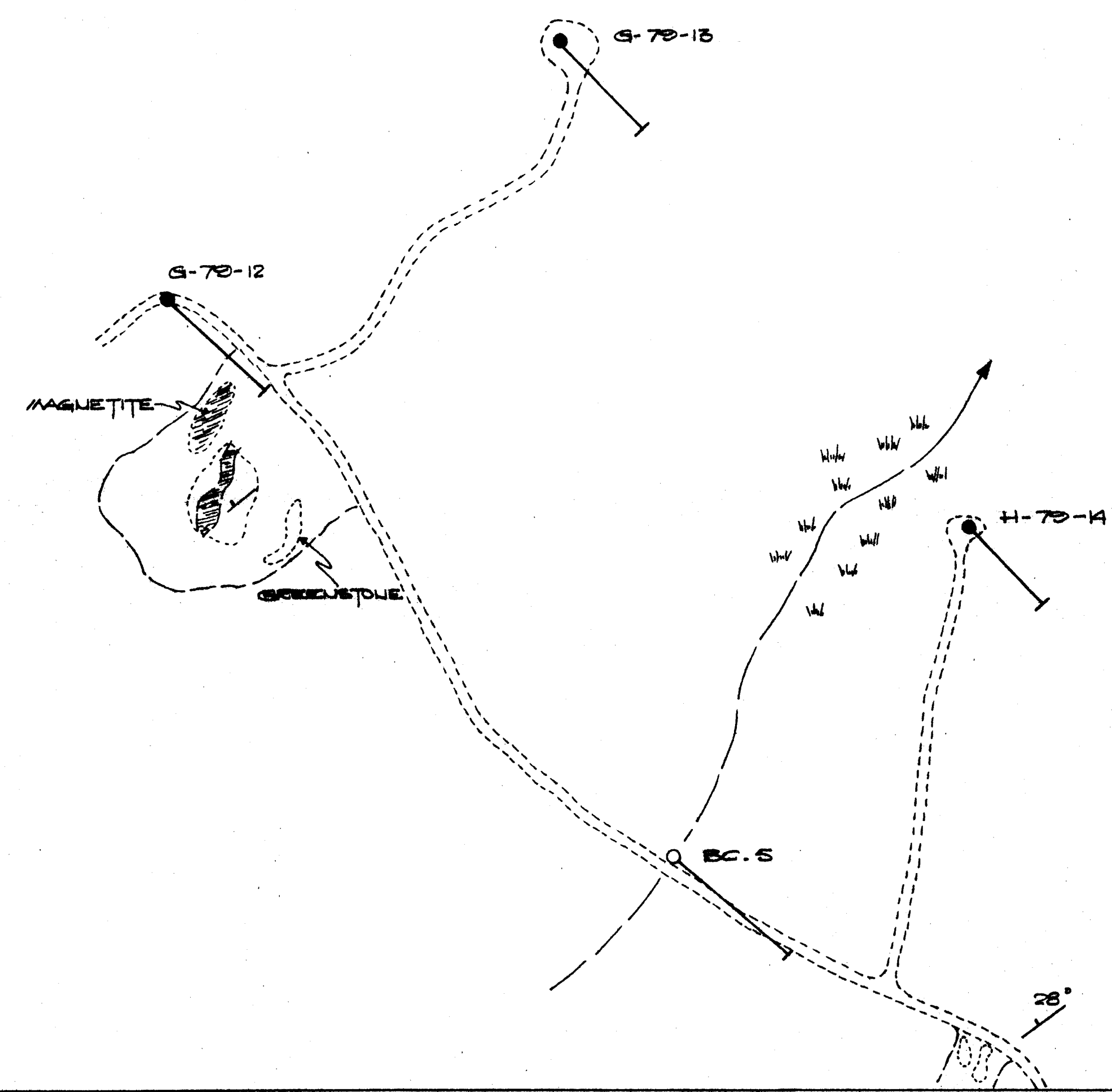
ORELL COPPER MINES LTD.	
SCALE 1:1000	APPROVED:
DATE	
BOWLER CREEK	
GEOLOGY PLAN	DWG. # 1

Handwritten signature

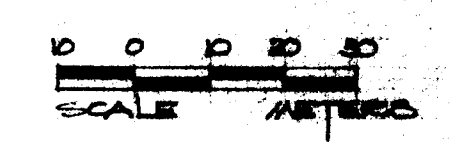


LEGEND

- 2 GREENSTONE
- 3 CHERT
- 5 UNDEFORMED SEDIMENTARY ROCK
- 4 GRANITE DYKE
- SULPHIDES
- DIP & STRIKE
- SWAMP
- PITS
- OUTCROPS



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
8139
NO.



ORELL COPPER MINES LTD.	
SCALE 1:8 1000	APPROVED:
DATE:	
BOWLER CREEK	
GEOLGY PLAN	DWG. # 2

PRW

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-80	135°

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED June 13
 DEPARTURE _____ FINISHED June 16
 ELEVATION _____ TOTAL LENGTH 36.2 m

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. K-79-1

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.	Pb.
0-1.8	Casing										
1.8 -5.2	Quartzite (rexl chert) - banding ab 70° ca. Dark bands of chlorite (probably an angillaceous chert)										
5.2-8.5	Do but crenulated										
8.5-8.8	Quartz bank with ^{50cm.} 2" of epidote 90° to ca.										
8.8-10.0	Banded impure chert - fine g sph, bands ab 90° to Ca 9.1-9.4 epidote										
10.0-11.6	Broken core - rusty break @ 10.0 broken core to 11.6 0.9 core loss										
11.6-17.6	11.6-12.5 massive chert (quartzite) 12.5-15.2 banded chert gray & brown ab 75° ca 15.2-17.6 phyllite becoming very min quartose @ 17.6 many crenulations @ 17.6										
17.6-20.7	MINOR Phyllite - min chert - gray - banding ab 60° ca										

MINERAL RESOURCES BRANCH
GEOLOGICAL SURVEY OF CANADA

8139

NO.

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-80	135°

PROPERTY BOWLER CREEK CLAIM ZINC
 LATITUDE _____ STARTED JUNE 13
 DEPARTURE _____ FINISHED JUNE 16
 ELEVATION _____ TOTAL LENGTH 36.2 m

LOGGED BY C.J.B.
 CORE SIZE AA
 SECTION _____
 HOLE NO. K-79-1

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
20.7-26.2	Do but brown banding @ 24.3									
26.2-27.1	Abd Qtzite (chert) ^{MINOR} min. gray banding									
27.1-32.9	Gray phyllite - very ^{MINOR} min calcite banding @									
	28.0-30.1-30.48-31.4									
32.9-36.2	Gray phyllite with very ^{MINOR} min sulphides	po) 1%								
	=End of Hole=									
	<u>REASON FOR HOLE:</u>									
	To test NE extension of Zinc zone near China Creek.									

MINERAL RESOURCES BRANCH

ASSESSMENT REPORT

8139

NO. _____

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-80	135

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED June 16
 DEPARTURE _____ FINISHED June 19
 ELEVATION _____ TOTAL LENGTH 39 m

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. K-79-2

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.	Pb
0.6	Casing										
0.6-14.6	Arg. chert (phyllite) banding ab 75° ca many crenulations at 14.6 core dark with minor garnet bands?										
14.6-15.2	Do but po & sph	Po 1% Sph 1%	25677	14.6	15.2	0.6		0.02		0.05	0.01
15.2-16.4	Do - no sulp - banding ab 75° ca										
16.4-17.3	Do but very sil. epidote & garnet	Po py 5% sulph.	25678	16.4	17.3	0.9		0.01		0.06	0.01
17.3 - 22.2	Phyllite - sil. banding ab 70° ca										
22.2-22.5	Chert & Qtzite	min. po banding									
22.5-37.9	Phyllite brown & white finely banded @ 24.9 band of Qtzite - 28.3 band of Qtzite - 29.2 sphalerite & epidote in 10° fracture coating - 30.7 po band - 36.5 2" band of Qtz. & epidote - =End of Hole=										
	REASON: Do test NE Extension of China Creek Zinc Zone.										

8139

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	55	135°

PROPERTY _____ CLAIM _____
 LATITUDE _____ STARTED _____
 DEPARTURE _____ FINISHED _____
 ELEVATION _____ TOTAL LENGTH 46.3 M

LOGGED BY _____
 CORE SIZE Ag
 SECTION _____
 HOLE NO. J-79-3

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.		
37.8-38.1	Qtz. bedded - min. epi.											
38.1-40.5	Phyllite chert bands 90° to ca.											
40.5-41.1	Fin qtz (breccia) in black arg - probably broken layers & flowage	chert										
41.1-43	Phyllite - arg. chert - brown & gray banding											
43-44.2	Qtz. bedded - minor epi.											
44.2-46.3	Phyllite - arg & chert banding											
=end of hole=												
REASON: To test EM-12 anomaly J zone												
(Reason arg po py conductor?)												
<div style="border: 2px solid black; padding: 10px; width: fit-content; margin: 0 auto;"> <p style="text-align: center; font-size: small;">MINERALOGICAL LABORATORY ASTORIA, OREGON</p> <p style="font-size: 2em; font-weight: bold; text-align: center;">8139</p> <p style="text-align: center; font-size: small;">NO. _____</p> </div>												

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-60	135°

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED June 24
 DEPARTURE _____ FINISHED June 25
 ELEVATION _____ TOTAL LENGTH 45.7 M

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. J-79-4

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
0 - 2.4	Casing									
2.4-11.2	Broken core Phyllite									
11.2 - 12.5	Do									
12.5 - 12.8	Qtz. mass bedded	po along contact								
12.8-15.5	Phyllite - dark gray with few chert bands									
15.5-15.8	Qtz. mass bedded									
15.8-16.7	Phyllite arg. dark									
16.7-20.4	Chert arg - dense fine grained with layers of dark gray and brown	Few bands of fine py.								
20.4-23.1	Phyllite many crenulations banding ab 80° ca.									
23.1-32.9	F.G. dense phyllite sil some crenulations									
32.9 - 40.5	Dark phyllite with broken qtz beds & masses some chlorite crenulated - minor sil masses									

MINERAL RECOVERY SAMPLE

8139

NO. _____

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	55°	135°

PROPERTY Bowler Creek CLAIM Zinc-1-6 BCZ
 LATITUDE _____ STARTED June 26
 DEPARTURE _____ FINISHED June 29
 ELEVATION _____ TOTAL LENGTH 45.1

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. J-79-5A

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
5.5	Casing									
5.5-8.5	Phyllite									
	5.5-6.4 Dense dark F.G. arg with bands of light green silicate ab 75° to ca (bands vary VERY FINE between 1/8-1/4")									
	6.4-8.5 arg chert tuffaceous									
8.5-25.9	Do but very siliceous banding ab 60° to ca.									
25.9-26.5	Lost ^{0.6} core									
26.5-29.2	Bedding shear? - fault gouge heavily alt. whitish soft in part calcareous.									
29.2-30.7	Phyllite - banded arg. & chert - greenish sil. bands ab 70° ca.									
30.7-31.7	Quartz with country Rx included									

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

8139

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED July 5
 DEPARTURE _____ FINISHED July 7
 ELEVATION _____ TOTAL LENGTH 44.8

LOGGED BY *[Signature]*
 CORE SIZE AQ
 SECTION _____
 HOLE NO. I-79-6

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
0 - 5.5	Casing									
5.5 - 5.8	Broken sil core									
5.8-7.3	Greenstone abundant sulphides massive green rk.	po 20% py 1% chalco 1%	25681	5.8	7.3	1.5	0.16		0.002	0.02
7.3-8.4	Do.	Do.	25680	7.3	8.8	1.5	0.22		0.002	0.02
8.4-10.3	Do but sulphide banding poorly developed-some sulphides X-cutting sch & bed - core tends to be tuffaceous becoming chert @ 10.4 (Bands of quartzite 10.0-10.7 with po)	po 20% Chalco 1%	25682	8.8	10.3	1.5	0.19		0.005	0.05
10.2 - 11.9	Do but sulphide banding ab 60° ca - quartzite @ 10.7-11.6 banding decreases & core has appeared of tuff with po replacing chlorite leaving whole quartz grains throughout.									

8139

NO.

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR		

PROPERTY _____ CLAIM _____
 LATITUDE _____ STARTED _____
 DEPARTURE _____ FINISHED _____
 ELEVATION _____ TOTAL LENGTH 44.8

LOGGED BY _____
 CORE SIZE AQ
 SECTION _____
 HOLE NO. _____

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
11.9-12.2	Quartzite (chert) with stringers of calcite									
12.2-25.6	Phyllite in part calcareous minor tuff bands banding ab 85° ca									
25.6-28.0	Mostly quartz masses with minor bands of chlorite									
28.0-28.6	Do but with po & py	2% sulphides								
28.6-34.4	Phyllite									
34.4-35.4	Do but with qtz masses & bands of chlorite									
35.4-44.8	Phyllite greenstone - minor py banding @ ^{39.6} 38.8 bedding 85-90° ca - more arg towards end of hole									
REASON: To test I-Zone central part.										

MINERAL RESEARCH BRANCH
ASSESSMENT REPORT

8139

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED July 7
 DEPARTURE _____ FINISHED July 9
 ELEVATION _____ TOTAL LENGTH 44.8

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. I-79-7

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
0-0.9	Casing									
0.9-1.2	Broken core Phyllite - qtz serc.									
1.2-3.0	Lost 1' @ 2.0 - core brecciated (sed.) country R _x gns matrix sulphides. Quartzite band @ 2.4-3.0	po. py. chalco	25889	1.5	3.0	1.5	0.19		0.002	0.04
3.0-3.9	Phyllite arg - abd thin beds of calcite - quartz- heavy sulphides shows sign of flow. Bd ab 80° Ca.	po. py. chalco	-690	3.0	3.96	0.9	0.16		0.002	0.03
3.9-6.4	Quartzite (chert) banding ab 60 ca - minor sulphides.									
6.4-7.9	Qtzite - massive epidote rk - abd po py with some chalcopy plastered on fracture planes	po py chalco	691	6.4	7.9	1.5	0.15		0.002	0.04
7.9-9.4	Do.	po py minor chalco								
9.4-10.3	Greenstone - epidote band 5 cm @ 9.4 heavy sulphides decreasing towards 10.9 some banding ab 45° ca	po py chalco	692	9.4	10.3	0.9	0.17		0.002	0.04

8139

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135

PROPERTY _____ CLAIM _____
 LATITUDE _____ STARTED _____
 DEPARTURE _____ FINISHED _____
 ELEVATION _____ TOTAL LENGTH 44.8

LOGGED BY _____
 CORE SIZE _____
 SECTION _____
 HOLE NO. I-79-7

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
10.3-15.5	Tuff banded - very minor sulphides									
15.5-17.0	Tuff - heavy sulphides becoming po chalco chertz towards 17.0		693	15.5	17.0	1.5	0.17		0.002	0.04
17.0-53.0	Phyllite - arg banding ab 60° ca fine qtz banding - seg qtz @ 27.7 with 5.0 cm band of py banding ab 85° to ca. =End of Hole=									
	REASON: to test SE extension of I-Zone									

MINERAL RESOURCES BRANCH
 ASSIGNMENT REPORT
8139
 NO. _____

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135

PROPERTY Bowler Creek CLAIM Zinc 16 BCZ
 LATITUDE _____ STARTED July 9
 DEPARTURE _____ FINISHED July 10
 ELEVATION _____ TOTAL LENGTH 39.0

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. I-79-8

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
0-4.3	Casing									
4.3-8.4	Phyllite - possible beds of impure qtzite & arg slightly calcareous - fine py throughout bd ab 90° ca.	po py chalco	684	8.5	10.0	1.5	0.17		0.002	0.02
8.4-17.7	Do but heavy po & py - many crenulations @ 8.8 (poss. mineral) - @ 10.6 core becomes more arg & calcite - Dense greenstone resembling (epidote skarn) @ 16.7, 0.3 arg with calcite.	mag 20% sph 1% po & py 1%	685	10.0	11.5	1.5	0.10		0.002	0.05
		po & py	686	13.1	14.6	1.5	0.13	0.07	0.002	0.17
		po & py	687	14.6	16.1	1.5	0.10		0.002	0.07
			688	16.1	17.6	1.5	0.18		0.002	0.09
17.7-18.9	Phyllite - arg chert 17.7-18.0 qtz. 18.0-18.9 phyllite bd ab 85 ca	po 15% .5% chalco.								
18.9-19.2	Phyllite becoming greenstone									

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

8139

NO.

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR		

PROPERTY _____ CLAIM _____
 LATITUDE _____ STARTED _____
 DEPARTURE _____ FINISHED _____
 ELEVATION _____ TOTAL LENGTH 39.0

LOGGED BY _____
 CORE SIZE _____
 SECTION _____
 HOLE NO. I-79-8

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
19.2-20.7	Green Tuff - dense									
20.7-25.3	Phyllite - in part calcareous bd ab 85 ca									
25.3-26.5	Lost core									
26.5-29.2	Broken core- phyllite	-Fault Zone								
29.2-32.9	Phyllite - grey - in part calcareous much	- Fault Zone								
	broken core	- Fault Zone								
32.9-33.8	Lost core	- Fault Zone								
33.8-39.0	Core rusty @ 38.4 - hole stopped as cannot cement.	- Fault Zone								
	REASON: To test SE extension of I-Zone									

MINING BRANCH

REPORT

8139

NO.

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135°

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED July 11-
 DEPARTURE _____ FINISHED July 17-shut down 13-16
 ELEVATION _____ TOTAL LENGTH 45.7

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. K79-9

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
0-2.4	Casing									
2.4-3.0	Broken core arg chert									
3.0-6.7	Do. - dark bands crenulated bd ab 80° ca.	very minor py								
6.7-7.6	Phyllite - sericitic ^{ic} - gray - banding ab 75° ca - core becoming chert ^{all} @ 7.3 with arg bands of gray & white silica									
7.6-34.4	Chert - banded - arg ^{all} bands of gray & white silica some crenulations slightly arg with minor sph @ 16.1 to 2.5 cm band with qtz & epidote. Minor Sph @ 16.1 calcite @ 21.6 below a small bed of tuff - banding (1" only) still 75-80° to ca - one foot qtz band @ 29.6									

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT

8139

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED July 18
 DEPARTURE _____ FINISHED July 20
 ELEVATION _____ TOTAL LENGTH 46.6

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. I-79-10

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
0-0.6	Casing									
0.6-3.0	Greenstone - broken core									
3.0-13.4	Do. - very sil - (sil. tuff?) indef. - banding ab 65° ca @ 12.8 0.6 band calcareous chert	15% po								
13.4-18.3	Chert banded - in part arg. bd ab 20° ca- banding becoming steeper as dyke approached. 5.0 cm po adj. to dyke									
18.3-19.5	Fine grained basic dyke									
19.5-19.8	Massive po									
19.8-20.4	Quartz									
20.4-21.3	Chert banded - dark banding ab 85 ca									
21.3-28	Greenstone - dark banding indistinct ab 85 ca. 5.0 cm tuffaceous band @ 24.4									

BRANCH

8139

NO. _____

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED July 20
 DEPARTURE _____ FINISHED July 22
 ELEVATION _____ TOTAL LENGTH 44.5

LOGGED BY CS
 CORE SIZE AQ
 SECTION _____
 HOLE NO. I - 79 - 11

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
-0.6	Casing									
0.6-2.7	Broken Core									
2.7-6.4	Chert- gray & white bands minor chlorite	10-15' 5% po								
	6.1-6.4 tuffaceous	py @ 6.7								
6.4-27.1	Calcareous chert									
	Alt bands vary up to 6"	po py 10.6-11.6 - 10%								
	Banding 80° to ca	12.8-13.7 -								
		remainder 1%	694	12.8	13.7	0.9				
			695	22.5	24.0	1.5				
27.1-30.0	Chert & tuff cleavage @ 90° ca									
30.0-32.6	Calcareous chert									
32.6-38.4	Chert & tuff									
38.4-40.8	Greenstone with minor calcareous blebs	po 10% py Mag 10%								
40.8-44.5	Chert - banded- crenulated mostly light gray									
	and white banding ab 90° to ca.									
	= End of Hole =									
	REASON FOR HOLE: To test NE end of I-Zone									

MINING & QUARTZ BRANCH

8139

NO.

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135°

PROPERTY Bowler Creek CLAIM Zinc 1-6
 LATITUDE _____ STARTED July 22
 DEPARTURE _____ FINISHED July 24
 ELEVATION _____ TOTAL LENGTH 45.4

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. G-79-12

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.	FE
0-5.5	Casing										
5.5-8.5	Greenstone - heavy mag. minor bands of calcareous mag 60% Po 3% mat. ab 90 ca green becomes mottled	Py 5% Chalco 1%	696	6.4	7.9	1.5	0.06	0.02	0.002	0.02	
8.5-10.0	Do but becoming very cherty minor mag. calcareous @ 9.7										
10.0-12.1	Greenstone sec of mag & py banding ab 45 ca										
12.1-13.7	Greenstone as above ^{AMBER} another mineral @ 13.7 (Zn?)	Mag 60% Py 5% Sph ?	697	12.1	13.7	1.5	0.05	0.02	0.002	0.02	
13.7-14.6	Do - bands of ep t minor mag										
14.6-20.1	Greenstone abd mag banding ab 60 ca 18.9-19.5 chert bedding.	Mag 60% py 5%	698	15.2	16.7	1.5	0.03		0.002	0.04	
20.1-20.7	Chert										
20.7-25.6	Greenstone in part calcareous heavy mag	Mag 70% Py 5%	699	22.5	24.0	1.5	0.03		0.002	0.25	
									COMPOSITE		39.63

8139

NO. _____

DIAMOND DRILL CORE LOG — SAMPLE RECORD

DEPTH	DIP	BEARING AST.
COLLAR	-55	135°

PROPERTY BOWLER CREEK CLAIM Zinc 1-4
 LATITUDE _____ STARTED JULY 26
 DEPARTURE _____ FINISHED JULY 28
 ELEVATION _____ TOTAL LENGTH 41.1

LOGGED BY CB
 CORE SIZE AQ
 SECTION _____
 HOLE NO. D.D.H. 79-H-14

Footage	DESCRIPTION	MINERALIZATION	Sample	From	To	Length	Copper %	Zn %	Gold Oz.	Silver Oz.
0-4.6	Casing									
4.6-5.8	Broken core - Siliceous tuffaceous ?									
5.8 -	Tuff - becoming arg. between 16.7 - 17.9									
22.7	bd ab 70° to ca in arg.									
22.7 - 23.0	Magnetite with py.	Mag.40% Py 10%								
23.0 - 24.9	Tuff - calcareous									
24.9 - 84	Lost 0.6 core									
84 - 28.3	Tuff in part calcareous									
28.3 - 32.9	Chert bd ab 90° ca.									
32.9 - 33.5	Lms. in part chert									
33.5 - 34.4	Chert									
34.4 - 117	Lost 1.2 End									
117 - 41.1	Welded Tuff									
	End of Hole									

8139

NO.