84-#180 - #12485
3

DESCRIPTION OF LITHOGEOCHEMICAL AND SOIL GEOCHEMICAL SURVEYS

August 17 - 29, 1983

RON 3 & 4 CLAIMS, THUTADE LAKE AREA

OMINECA MINING DIVISION

Lat. 057°03'N. Long. 126°52'W.
NTS. 94E/2W, 94D/15W

for

Pacific Ridge Resources

by

C. Von Einsiedel, B.Sc.,
Geologist

October 1983

HI-TEC
RESOURCE
MANAGEMENT
LIMITED

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SUMMARY

On behalf of Pacific Ridge Resources, Hi-Tec Resource Management provided a geologist and two field assistants to complete a lithogeochemical and soil geochemical survey on the RON 3 and 4 mineral claim blocks. Previously reported low grade Cu-Au-Ag mineralization was re-evaluated and an estimated 33 line km of soil sampling was completed.

Assay results of samples collected from previously identified float trains verified the presence of low grade Cu-Ag-Au mineralization reported by Sawyer Consultants, 1981. This mineralization consists of abundant, silicified, sulphide-bearing, (pyrite and minor chalcopyrite) shear zone material found as float along NNE trending axis in the central and south central part of RON 3.

Although geologic mapping is hampered by heavy overburden, limited exposure and float indicate a geological environment that may host the following types of mineralization.

(i) Low grade, large tonnage Cu-Ag-Au mineralization similar to the new Kemess prospect to the north, and
(ii) Quartz-sulphide precious metal mineralization similar to the Chappelle discovery to the northwest.

INTRODUCTION

At the request of Mr. H. Williams, President - Pacific Ridge Resources, Hi-Tec Resource Management conducted a lithogeochemical and soil geochemical survey on the RON 3 and 4 mineral claim blocks. From August 17 to August 29, a geologist and two assistants completed approximately 33 line km of soil sampling and resampled previously identified, low grade Cu-Ag-Au mineralization. Included in this report is a description of mineralized float trains and a description of overburden types within the survey area. Rock assay results and locations are shown in Appendix I and Figure 3.

PROPERTY

The property consists of the RON 3 and 4 mineral claims, (which adjoin the RON 5 and 6 claims to the east) located in the Omineca Mining Division on map sheets 94-E-2W and 94-D-15W, at 126°52'W. longitude and 057°03'N. latitude. The claims were staked in February 1981 and titles are recorded as follows:

Claim Name	No. of Units	Record No.	Registered Owner	Expiry
RON 3	18	3629(3)	H.L. Williams, Pres.	Mar. 3/83
RON 4	20	3630(3)	Pacific Ridge Res.	Mar. 3/83

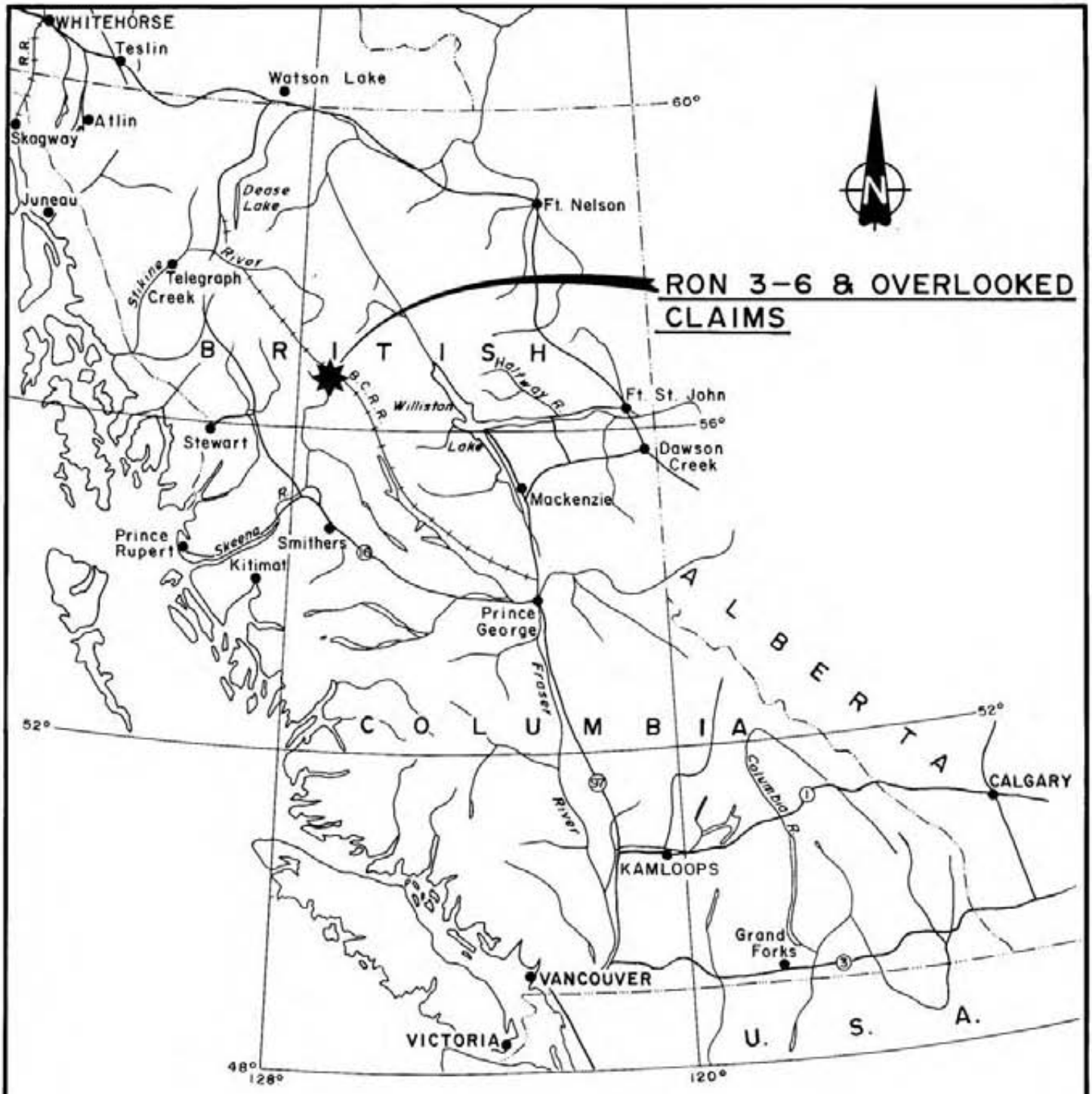
LOCATION AND ACCESS

The property is located just north of Attichaka Creek, approximately 5 km east of the north tip of Thutade Lake. Access is by float plane or wheeled aircraft to Johansons Lake and by helicopter to the property. Air transportation to Johanson Lake may be arranged from any of several nearby communities including Mackenzie - 300 km to the southeast and Smithers - 250 km to the south. A cat track just south of the property is believed to originate at Thorne Lake, located approximately 18 km to the southeast. Cross country cat access to these claims could easily be achieved.

HISTORY

The RON 3 to 6 claims have only recently been investigated in some detail. Sawyer consultants (1981) conducted reconnaissance geologic mapping and prospecting on the claims and concluded that the claims are located in a geologic environment which may host low grade Cu-Ag-Au mineralization similar to the new Kemess prospect to the north and quartz-sulphide mineralization similar to the Chappelle discovery to the northwest.

Low grade Cu-Ag-Au mineralization (consisting of silicified, sulphide-bearing shear zone material) and quartz-sulphide float has been identified on the RON 3 and 4 claims.



PACIFIC RIDGE RESOURCES CORP.

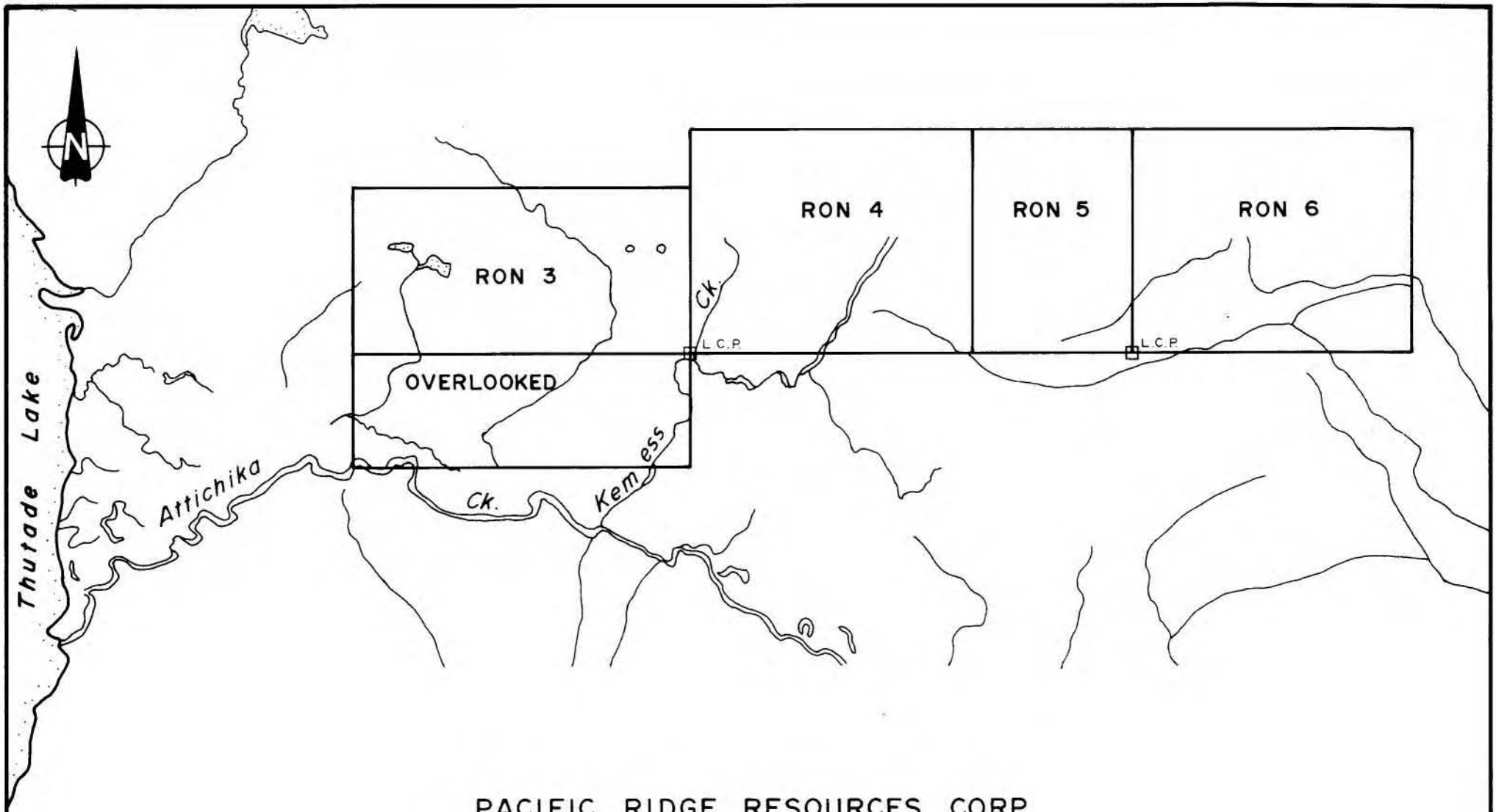
LOCATION MAP

OF

RON 3-6 & OVERLOOKED CLAIMS

OCT. 1983

FIG. 1



PACIFIC RIDGE RESOURCES CORP.

CLAIM MAP

OF

RON 3-6 & OVERLOOKED CLAIMS

1000 500 0 1000 2000 3000

Meters

OCT. 1983

FIG. 2

REGIONAL GEOLOGY

The RON 3 and 4 claims area is underlain by Triassic/Jurassic volcanics and sediments of the Takla Group. Although not exposed on the property, Sawyer Consultants (1981) suggest that this volcano-sedimentary pile has been intruded by Jurassic/cretaceous granites (Omineca intrusive).

Lord (1949) subdivided the Takla Group into several units including basalts, various andesites, pyroclastics and marine sediments. This group of volcanics appear to host many of the known Cu-Ag-Au showings of the Lawyers Pass and McConnell Creek areas.

Major northerly and northwesterly facture systems pass through the general area east and west of the RON claims (Sawyer Consultants, 1981).

1983 EXPLORATION PROGRAM

The current seasons program consisted of prospection, limited geologic mapping and an estimated 33 line km of soil sampling. Wherever possible, soil samples were collected from the "B" horizon.

A brief description of overburden types and their distribution is included in the soil geochemistry section of this report.

RESULTS OF GEOLOGIC MAPPING/PROSPECTING

Sawyer Consultants (1981) defined a zone of altered volcanics which contained minor amounts of Cu, Pb, An, Ag and trace amounts of gold. The most important feature of the mineralized samples examined is the planar fabric they display. This texture suggests that a mineralized structure could be present on the RON 3. The structure, though lightly mineralized where observed may show better mineralization along strike or at depth.

Analyzed by Vangeochem, digested by nitric perchloric acid, diluted with 10 ml, read by AA

SOIL GEOCHEMISTRY

The principal aim of the geochemical survey was to define the structure referred to above and possibly identify higher grade mineralization.

Soil samples were collected at 50 m intervals along 200 m spaced EW lines as indicated on Figure 3. Those areas not sampled were deemed excessively overburden covered or too swampy to obtain a sample representative of bedrock geochemistry.

Though many local variations occur, the following outlines the approximate distribution of overburden types on the RON 3 and 4 claims. The majority of the RON 3 claim and the extreme northern and western parts of the RON 4 claim display mainly lodgement tills with occasional glacio-fluvial deposits. The SE part of the RON 3 claim is swamp covered. The majority of the RON 4 claim is covered by thick ablation tills, glacio-fluvial deposits (elongated features striking N to NNW), aeolian sands and considerable areas of swamp. In the latter area overburden drilling would be required to confidently determine the presence of mineralized bedrock.

To assist with the identification of the geochemical signature of mineralization, soil samples were collected from several mineralized occurrences (lodgement tills containing a high percentage of altered shear zone material). These samples are coded S-001, S-002, etc. and represent soils collected at the corresponding rock sample site (i.e. S-010 collected at site RK-010). ~~To date, samples collected have not been analyzed. An interpretation will follow in a later report once results are available.~~

CONCLUSIONS AND RECOMMENDATIONS

The property (RON 3 and 4) hosts low grade Cu-Ag-Au mineralization which may be related to an underlying bedrock structure (fault or shear zone). Sawyer Consultants (1981) suggest that the projected extension of the Moose Valley fault

system from the south and the Chappelle fault from the north may pass through this area and may have caused the emplacement of the abundant iron sulphide and occasional copper mineralization.

Recommendations for further work will be based on results of the soil geochemical survey.

Respectfully submitted,

C. Von Einseidel, B.Sc.,
Geologist

COST BREAKDOWN

Personnel	Date	Wages	Days	Total
C. Von Einsedel	August 17 - 29	$275.00	12.0	$ 3,300.00
I. Sommers	August 17 - 29	$275.00	12.0	3,300.00
J. Perring	August 17 - 29	$225.00	8.0	1,800.00
Meals and Accomodation at $34.50/man/day				1,104.00
Vehicle & Fuel				778.00
Air Charter				2,157.00
Helicopter				3,430.00
Expediting				201.00
Drill Rental				556.00
Explosives				717.00
Radio				128.00
Materials				334.00
Assaying				402.00
Drafting and Reports				850.00
				$19,057.00

APPENDIX A

Geochemical Analytic Report

VANGEOCHEM LAB LIMITED
1521 Pemberton Avenue
North Vancouver B.C. V7P 2S3
(604) 986-5211 Telex: 04-352578

PREPARED FOR: HI TEC RESOURCE

NOTES: nd = none detected
: — = not analysed
: is = insufficient sample

REPORT NUMBER: 83-45-010 JOB NUMBER: 83314

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au pob
RK - 002	4	6	11	nd	30
RK - 003	44	24	48	.4	25
RK - 004	1140	5	6	.5	10
RK - 005	21	9	19	nd	5
RK - 006	51	22	93	nd	10
RK - 007	27	18	77	nd	10
RK - 008	49	22	101	nd	5
RK - 009	11	8	7	nd	15
RK - 012	19	19	72	.1	15
TR - NO.1 (56163/4)	5	10	16	nd	15
TR - NO.2 (56168)	19	41	29	.1	30
DETECTION LIMIT	1	2	1	0.1	5

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: — = not analysed
: is = insufficient sample

REPORT NUMBER: 83-45-007 JOB NUMBER: 83315

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
TR - NO.1 (56164)	3	12	10	nd	25
RK - 001	5	17	6	nd	nd
RK - 010	97	32	62	.6	nd
RK - 011	32	40	83	nd	nd
RK - 013	194	118	14	.3	15
DETECTION LIMIT	1	2	1	0.1	5

APPENDIX B

CERTIFICATE

I, CARL A. VON EINSIEDEL, of the city of Vancouver, British Columbia, hereby certify that:

1. I am a Consulting Geologist with offices at 404 - 850 West Hastings Street, Vancouver. British Columbia.

2. I hold a degree of Bachelor of Science in Geology from Carleton University in Ottawa, April, 1982.

3. I have completed undergraduate and post graduate courses in exploration geochemistry, geostatistics and geophysics.

4. I have been employed in my profession for the past six years.

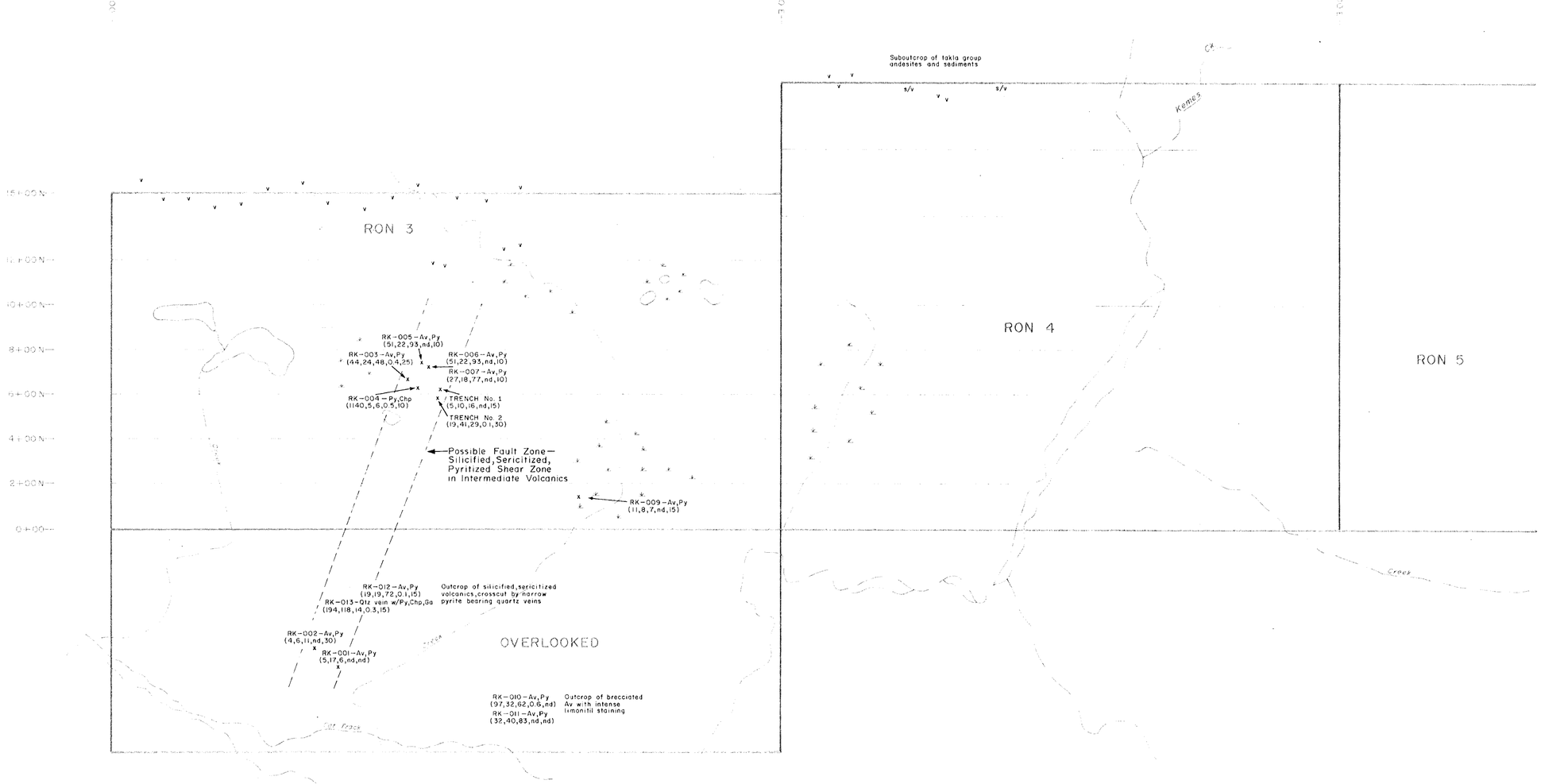
5. I have no interest either directly or indirectly, nor do I expect to receive any interest in the property covered in this report or in the shares of Pacific Ridge Resources Corp.

6. This report is based on field examinations made by myself between August 29 and September 3, 1983 evaluation of previous operators technical data, and on the results of recent geochemical and geophysical surveys.

Dated at Vancouver. British Columbia, this 8th day of August, 1984.

C. von Einsiedel

C. A. von Einsiedel
Consulting Geologist



LEGEND

v	Takla Volcanics — Mainly Andesite
Av	Altered Volcanics
s	Takla Sediments — Cherts/Grey Wackes
Py	Pyrite
Chp	Chalcopyrite
Ga	Galena
x	Float Sample Location
	Outcrop or Subcutcrop
——	Geologic Contact

RK-001 — Av,Py — Sample No., Rock Type, Type of Sulfides
(0.1,0.4,2.1,5.4,6.0) (Cu ppm, Pb ppm, Zn ppm, Ag ppm, Au ppb)

NOTE
nd — none detected

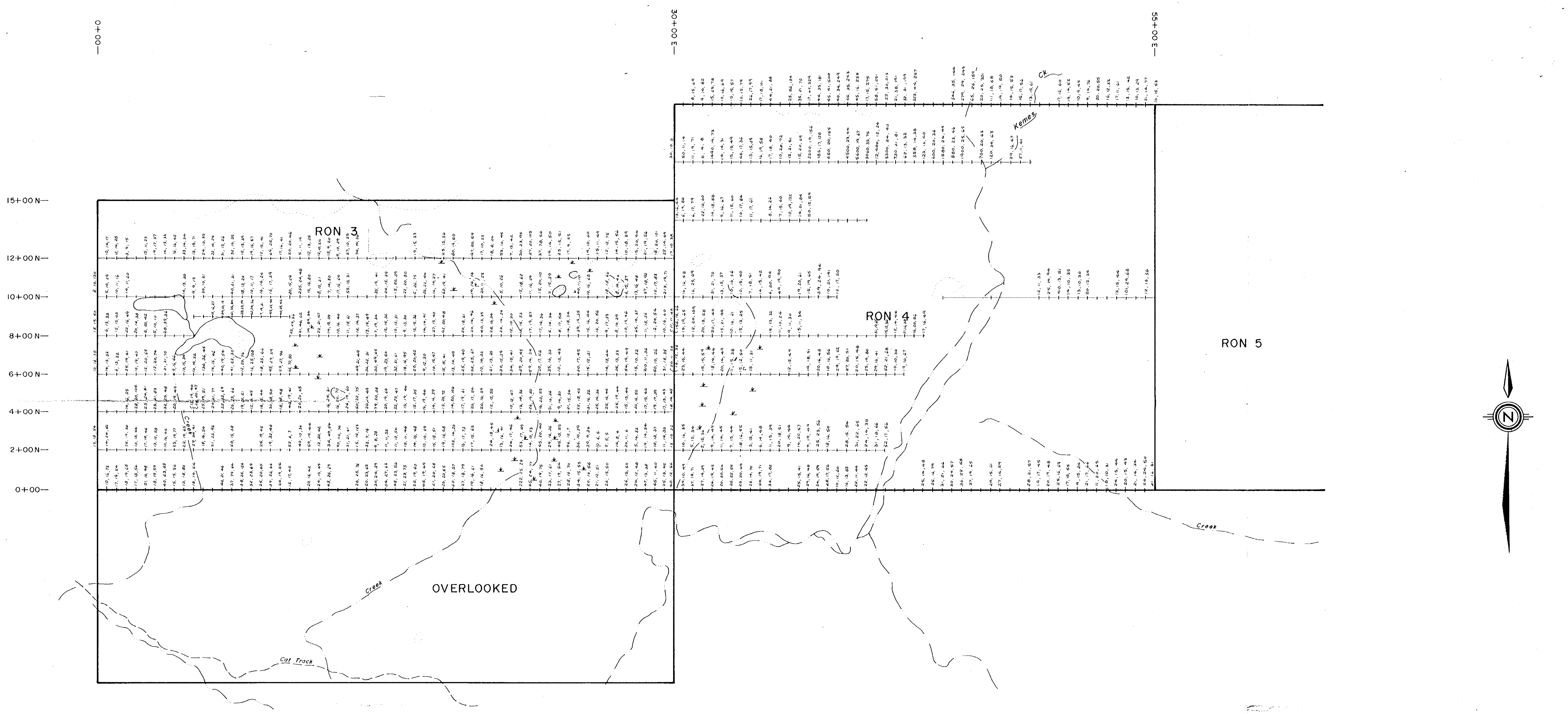
100 0 200 400 600
Meters

PACIFIC RIDGE RESOURCES CORP.
— THUTADE LAKE AREA —
RON 3-6 & OVERLOOKED CLAIMS
OMINECA MINING DIVISION — BRITISH COLUMBIA

GEOLOGY & ROCK SAMPLE LOCATIONS

HI-TEC RESOURCE MANAGEMENT LIMITED

DWN. BY: T.M.	FIG. NO.
CHK. BY:	3
DATE: OCT. 1983	
N.T.S. 94D/15, 94E/2	



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,485

100 0 200 400 600
Meters

LEGEND

110, 26, 54	SOIL SAMPLE LOCATIONS, AND GEOCHEMICAL ANALYSIS: 110 ppm COPPER 26 ppm LEAD 54 ppm ZINC
	SOIL SAMPLE LOCATION LINES
	CLAIM BOUNDARY

PACIFIC RIDGE RESOURCES CORP.
— THUTADE LAKE AREA —
RON 3-6 & OVERLOOKED CLAIMS
OMINECA MINING DIVISION — BRITISH COLUMBIA

SOIL GEOCHEMISTRY

COPPER, LEAD, ZINC

DWN. BY: D. L. COOKE	FIG. NO.
CHK. BY:	4
DATE: JULY, 1984	
N.T.S. 94D/15, 94E/2	

0+00

30+00 E

55+00 E

15+00 N

12+00 N

10+00 N

8+00 N

6+00 N

4+00 N

2+00 N

0+00

RON 3

RON 4

RON 5

OVERLOOKED

Creek

Cat Track

Kemes

Ck

N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,485

100 0 200 400 600
Meters

LEGEND

21, 20, 5 — SOIL SAMPLE LOCATIONS, AND GEOCHEMICAL ANALYSIS:
2.1 ppm SILVER
20 ppm ARSENIC
5 ppb GOLD (ND-NOT DETECTED)

SOIL SAMPLE LOCATION LINES

CLAIM BOUNDARY

PACIFIC RIDGE RESOURCES CORP.
— THUTADE LAKE AREA —
RON 3-6 & OVERLOOKED CLAIMS
OMINECA MINING DIVISION — BRITISH COLUMBIA

SOIL GEOCHEMISTRY
SILVER, ARSENIC, GOLD

	DWN. BY: D. L. COOKE	FIG. NO.
	CHK. BY:	5
	DATE: JULY, 1984	
	N.T.S. 940/15, 94E/2	