

84-#953-13027  
10/85

1984 GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT

on the

RON 3-11, Du, OVERLOOKED MINERAL CLAIMS  
(KEMESS CREEK PROPERTY)

South Toodoggone Area  
Omenica Mining Division

Latitude 57°01'  
Longitude 126°45'  
N.T.S. 94E2;94D15

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

for

**13,027**

Pacific Ridge Resources Corp.  
801 - 675 West Hastings Street  
Vancouver, B.C.

**PART  
1 OF 2**

by

Wim Vanderpoll

September, 1984



HI-TEC  
RESOURCE  
MANAGEMENT  
LIMITED

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## SUMMARY

The Kemess Creek Property, consisting of 9 Ron claims and Du and Overlooked claims totalling 184 units, is located in the southern Toadogone area 260 km north of Smithers, in north central British Columbia.

Work on the property during 1984 was conducted by Hi-Tec Resource Management personnel.

Objectives of the program were to:

1. Map and prospect selected areas of interest on the property.
2. Grid soil sample selected areas of geological interest, including more extensive coverage of an area of anomalous Cu-Au geochemistry as indicated by 1983 soil geochemistry on Ron 4 claim.
3. Conduct a magnetometer survey over the Cu-Au anomalous area on Ron 4 claim to aid in mapping an area of no exposure.

The claims are underlain by andesite and sediments of the Takla Group, intruded by quartz monzonite during Jurassic time. Toadogone volcanics east of Kemess Creek may continue westward to Ron 4 claims, where no exposure is present. Strong gossans have developed adjacent to and within stocks; rust zones west of Ron 9 claim returned a value of 580 ppb Au; weakly anomalous values in Cu, Ag and Zn are present elsewhere on the property.

A reconnaissance soil survey on Ron 11 claim east of Cominco's Rat claims show scattered weakly anomalous values in Ag, Au and Cu. Only a portion of the soil samples collected were analysed; other samples are in storage for future analysis.

A detailed soil survey on Ron 4 and Du claims shows strong distinctly zoned anomalies in Au, Cu and Zn.

The zone of anomalous copper values greater than 100 ppm extends across the entire grid and is up to 700 m wide. Within this zone lies an area with values in excess of 1000 ppm Cu, between 50 and 300 m wide, extending throughout the grid. The anomaly is open to the east and west.

Two areas of strongly anomalous gold values (to 360 ppb) lie adjacent to the copper geochemical anomaly and, in part, overlap it.

A zone of anomalous zinc values lies north of the copper anomaly. The zinc anomaly appears to be closed off on the west side of the grid but is open to the east. Maximum value is 1080 ppm Zn.

No bedrock is exposed in the area of the grid, and pitting and trenching failed to uncover any. In the pits, angular mineralized boulders of pink monzonite, andesite and conglomerate were found.

A magnetometer survey over the soil grid shows a maximum relief of 1100 gammas. A broad mag high in the northeast of the grid and a strong, well defined mag high in the west-central part of the grid may represent intrusive bodies.

The copper and gold soil anomalies lie in part along the flank of the first mag high area and strikes through the core of the second; anomalous zinc values lie along the axis of the first mag high and extend west of it.

Cost of the program was \$26,485.47.

## CONCLUSIONS

The 1984 program of mapping, prospecting, and geochemical and magnetometer surveys has outlined definite areas of interest on Ron 11 claim and on Ron 4/Du claims while elsewhere on the property limited work has resulted in encouragement that warrants further work.

On Ron 11 claim, an attractive geological environment of volcanic and intrusive rocks with the development of strong zones of pyrite alteration exists.

On Ron 9 claim, a strongly anomalous Au value in a 2 m wide pyritic zone in blocky argillite is present. Nearby pyritic zones may be significant.

On Ron 4/Du claims, very strong geochemical anomalies in Au and Cu lie along a broad magnetic high and strikes across a second positive magnetic feature. A zinc geochemical anomaly lies directly north of the Au and Cu anomalies and suggests strong metal zoning.

The appearance of the geochemical anomalies suggests significant mineralization associated with a shallow intrusive body or with strong east-west faulting. Takla volcanics and monzonitic intrusives occur north of the anomalies; Toodoggone volcanics lie to the east but may continue westward to the grid area.

## RECOMMENDATIONS

Analysis of soil samples collected on Ron 11 claim should be done as soon as possible, in view of a strongly anomalous silt sample west of this grid and a possible northward continuation of the Ron 4/Du grid anomalies. Results would dictate further geochemical work.

Because of lack of exposure, a magnetometer survey should be conducted as it may help identify the contact zone between the intrusive and volcanic rocks.

The Ron 4/Du grid should be extended to the east and west, where copper and zinc soil anomalies are open, and to the north on the east side of the grid. As soil anomalies may be offset downhill from actual source mineralization, a ground VLF-EM survey should be conducted over the entire grid area to localize possible structures.

In addition, a magnetometer survey on the extended grid should be carried out. Extending such a survey into areas of exposure (to the north) will help in the interpretation of magnetometer survey results.

A second stage program of I.P. surveys is further recommended to aid in determining targets for drilling, which would form the third stage program.

First, second and third stage programs could be conducted concurrently as dictated by budgets to minimize mobilization cost.

### Projected cost:

Soil survey - 10 km	\$ 1,500.00
Geochem analysis	4,000.00
Mag. survey	2,000.00
VLF survey - 10 km	2,000.00
I.P. survey - 10 km @ \$1,100.00/km	11,000.00



Mobilization and supply flights	10,000.00
Diamond drilling - 500 m @ \$50.00/m	25,000.00
Assays	2,500.00
Supervision, reports, etc.	4,000.00
Helicopter support	10,000.00
Contingencies, camp supplies, etc.	<u>3,000.00</u>
<b>TOTAL</b>	<b><u>\$75,000.00</u></b>





## INTRODUCTION

### Location and Access

The Ron 3 - 11, Overlooked and Du claims (Kemess Creek Property) are located near the south end of Duncan Lake on Kemess Creek in north-central British Columbia at latitude  $57^{\circ}01'$ , longitude  $126^{\circ}45'$ , at the southern end of the Toodoggone area.

Access is by float plane to Thutade or Duncan Lake from Smithers to the south or from McKenzie to the southeast, each approximately 260 km away, then by helicopter to various portions of the property. Alternate access is by helicopter from the Baker Mine gravel airstrip at Sturdee, 20 km to the northwest.

Closest road access is to Johansen Lake, 65 km southeast. A summer road extends a further 40 km to the placer operations at McConnel Creek, 25 km southeast of the claims.

For future work, float plane access to the .5 km long lake immediately west of Kemess Creek on Du claim should be considered.


### History

Exploration history of the region is documented by Sanguinetti (1984). The reader is referred to this report for further information.

The Ron 3 - 7 claims were staked in March 1983; Ron 8 - 11 and Overlooked claims were added in October and September 1983 respectively. The Du claim was staked in July 1984 to cover open-ended Cu-Au soil anomalies on Ron 4 claim.



THUTADE LAKE PROJECT

PACIFIC RIDGE RESOURCES CORP.		
KEMESS CREEK PROPERTY		
LOCATION MAP		
RON 3, 4, 5, 6, 7, 8, 9, 10, 11; DU, and OVERLOOKED Claims		
Omineca M.D.		NTS 94 D/15, 94 E/2
 HI-TEC RESOURCE MANAGEMENT LIMITED	OWN BY:	DATE: AUG /84
	CHK BY:	FIGURE NO. 1
	SCALE: AS SHOWN	

Portions of the property cover ground previously held by Cominco (Rat claims), a Cu-Mo prospect. Cominco maintains a limited ground position, surrounded by Ron 11 claim.

In 1983 Hi-Tec Resource Management carried out a program of limited mapping and rock sampling on Ron 3 and Overlooked claims; soil samples were collected on widely spaced (200 - 300 meters) chain and compass lines on Ron 3 and 4 claims. The survey located isolated weak Cu, Ag and Au anomalies on Ron 3 claim, and a strong Cu-Au anomaly over 1000 m in the north of Ron 4 claim in an area where no rock is exposed.

#### 1984 Program

The 1984 program was conducted between June 18 and July 15 by helicopter day trips from the Thutade Lake base camp and a 3-man fly camp on Ron 11 claim.

The program consisted of the following:

1. Mapping and prospecting on limited portions of Ron 4, 7, 9, 10 and 11, and Du claims.
2. Location of an 8.8 km chain and compass grid on Ron 4/Du claims and soil geochemistry and magnetometer surveys over that grid.
3. Pitting and trenching on Ron 4 claim in areas of anomalous 1983 soil geochemistry in an effort to reach bedrock.
4. Chain and compass soil grid on Ron 11 claim adjacent to Cominco ground.

The program was conducted by Hi-Tec Resource Management Ltd. under the direction of Wim Vanderpoll.

Helicopter support was provided by Airlift machines based near the Baker Mine.

## Claims

The Kemess Creek property, located in the Omenica Mining Division, consists of the following claims (Fig. 2):

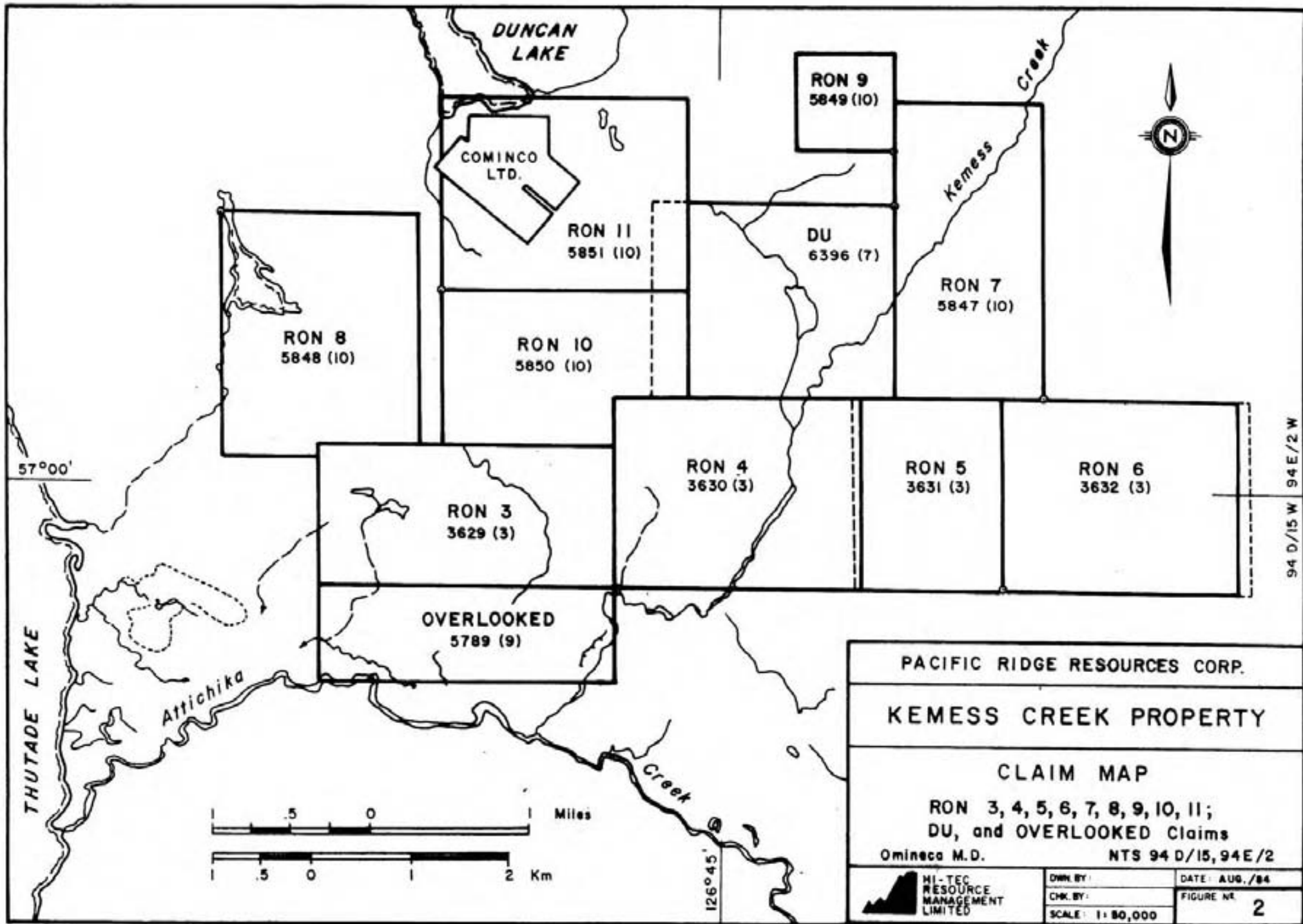
<u>Claim Name</u>	<u>Record No.</u>	<u>Units</u>	<u>Expiry Date*</u>
Ron 3	3629	18	March 3, 1985
Ron 4	3630	20	March 3, 1985
Ron 5	3631	12	March 3, 1985
Ron 6	3632	20	March 3, 1985
Ron 7	5847	18	October 5, 1984
Ron 8	5848	20	October 5, 1984
Ron 9	5849	4	October 5, 1984
Ron 10	5850	20	October 5, 1984
Ron 11	5851	20	October 5, 1984
Overlooked	5789	12	September 12, 1984
Du	6396	<u>20</u>	July 9, 1985
		Total	184 units

\*Prior to application of 1984 assessment credits

All claims are registered in the name of Pacific Ridge Resources Corp. Cominco's Rat claims, directly south of Duncan Lake and covering an area of approximately 1 x 1 km, lie within the Ron 11 claim and are excluded from the property. The total cost of the 1984 program, \$26,485.47, will be applied for assessment credits.

The claims are grouped as follows for assessment purposes:

<u>Claims</u>	<u>Units</u>	<u>Assessment Applied</u>
Ron 3, 8, 10, 11; Overlooked	90 units	\$10,286.95
Ron 4, 5, 6, 7, 9; Du	94 units	\$16,198.52



## GEOLOGY

### Regional Geology

The Thutade-Duncan Lake area is underlain by andesitic volcanics and related sediments of the Upper Triassic-Jurassic Takla Group and, east of Kemess Creek, by Middle to Upper Jurassic Toodoggone volcanics in fault contact with Permian Asitka sediments.

Extensive Jurassic quartz-monzonite and granodiorite occur north and east of the property; lesser plutons, such as those found on Ron II claim, are likely to occur elsewhere.

To the west of the major north trending fault that follows, more or less, the Thutades Lake valley, occur non-marine sediments of the Cretaceous-Tertiary Sustut Group.

Additional strong regional structures are recognized on aerial photographs of the area. These lineaments are northerly trending, but cross-cutting features are also evident. The importance of these structures is poorly understood.

### Property Geology (Fig. 3)

Bedrock exposure on the property is extremely poor and, south of Duncan Lake, limited to tree-line breaks in slope and shallow gullies above treeline; below treeline where topography is gentle it is almost non-existent. North of Kemess Creek exposure is much better, with more rugged topography.

The north-west trending creek valley on Du claim marks the boundary between interbedded volcanics and sediments to the northeast, while to the west mostly andesitic volcanics occur. The volcanics east and west of this break are similar in appearance and may be correlative, making the valley the approximate location of an anticlinal axis (bedding to the east dips northeast) or the location of a major northwest trending fault.

Granitic rocks occur intruding the andesites south of Duncan Lake in the vicinity of the Rat claims. Strong pyritic halos have developed around the intrusive bodies. To the southeast of the Rat claims on Du claim, fine grained dark grey monzonite grades into quartz-monzonite porphyry; east of the Rat claims monzonite ranges from medium or fine-grained to a crowded porphyry.

Andesitic rocks are fine grained to plagioclase porphyry, dark green to grey and belong to the Triassic-Jurassic Takla Group. Minor augite porphyry, and sedimentary rocks (limestone, argillite, quartzite and chert) probably also belong to that group.

Sediments in the Ron 9 claim area are gently dipping to the northeast; a single attitude obtained on Rat claims indicates moderate dip to the southwest.

Strongly pyritic zones occur on Ron 11 claim (in part pre-empted by the Cominco ground), and to the southeast to Du claim, as well as at the south of the Kennco claims, where the associated gossan continues on to open ground immediately north of Ron 11 claim.

Several rock chip samples collected during reconnaissance mapping on various parts of the claims are moderately anomalous, as tabulated below. Only anomalous samples are listed; other values are within background range and can be found in Appendix I.

<u>Sample No.</u>	<u>ppm Cu</u>	<u>ppm Pb</u>	<u>ppm Zn</u>	<u>ppm Ag</u>	<u>ppb Au</u>	<u>Remarks</u>
84TVT38	282	16	24	.5	0	Andesite
84TVT40	216	16	17	1.0	580	2 m wide rust zone in blocky argillite
84TVT45	254	40	91	.6	60	Monzonite gossan near andesite contact
84TVT64	185	60	45	2.0	10	Monzonite
84TVT91	10	26	384	.3	0	Blocky andesite



There is no exposure in the area of the soil grid on Ron 4/Du claims; andesite outcrops north of the grid; angular boulders on the grid consist of pink monzonite, andesite and conglomerate.





## GEOCHEMISTRY

Two chain and compass grids were completed as follows:

1. On Ron 11 claim, 12.1 km of lines, spaced at 200 m in the southern part and 100 m at the north of the grid, covers the area immediately east and south of Cominco claims. B-horizon soil samples were collected at 50 m stations.

Only the 132 soil samples from lines 0 to 1000S were analysed by Vangeochem of North Vancouver. Other lines (200S-1800S) are held in storage at Acme Lab. for future analyses.

The soil survey, where analyses are complete, show scattered weak to moderate Ag and Cu values. Anomalous values\* only are plotted on Fig. 4. A strongly anomalous stream sediment sample (84TVL67: 750 ppm Cu) was collected to the west of the grid.

2. On Ron 4 and Du claims, 8.8 km of lines, spaced at 100 m with soil sample intervals at 25 and 50 m, covers an area indicated as being anomalous in Cu and Au in 1983 soil sampling.

A total of 258 samples were collected. Sample locations are shown on Fig. 5. Results show a strong well defined anomaly of greater than 100 ppm Cu in the central grid area, surrounding a lenticular area with values greater than 1000 ppm Cu, that has a width ranging from 50 -300 m and a strike length of 1000 m (Fig. 6). The anomaly extends across the 1000 m length of the grid and is open to the east and west. Two strong gold anomalies (Au greater than 100 ppb) are at the north side of the +1000 ppm Cu contour. The smaller Au anomaly, on lines 4000E and 4100E, is 175 m long and 70 m wide; the second measures 420 by 150-200 m. Values to 360 ppb Au are obtained (Fig. 6).

\*Anomalous cut-offs used are: Cu 100 ppm; Pb 50 ppm; Zn 200 ppm; Ag 1.0 ppm; Au 10 ppb.

Anomalous values in Pb and Ag (Fig. 5) are scattered and low, to 181 ppm and 2.2 ppm, respectively.

A strong Zn anomaly (greater than 200 ppm Zn) lies immediately north of the Cu-Au soil anomaly and, similarly, is open to the east and west. The anomaly, which is up to 275 m wide and extends beyond the limits of the grid, contains several clusters and scattered values of +500 m ppm Zn (Fig. 5).

The location of copper, gold and zinc anomalies indicate strong metal zoning, with distinct anomalies for these elements.

## MAGNETOMETER SURVEY

A magnetometer survey was carried out over the soil grid, using a Scinitrex Proton Procession magnetometer. Readings were taken at 25 m stations. Results of the survey, corrected for diurnal variation, are plotted on Fig. 7.

A broad lenticular magnetic high of +8900 gammas is located in the northeast part of the grid east of line 3900; a similar, ellipsoid mag high is centered on lines 3700-3800, 75 m north of the baseline. Shallow intrusive bodies could be the cause of these mag highs. South of the baseline, magnetic contours do not show consistent patterns but in general, readings appear to decrease southward. The lack of distinct patterns may represent glacial till of varying thickness, covering Takla or Toodogone volcanics.



## REFERENCES

- Eisbacher, G.H. 1974. Sedimentary History and Tectonic Evolution of the Sustut and Sifton Basins, North Central B.C. GSC Paper 73-31
- Gabrielse, H. et al. 1976. Geology of the Toodoggone River (94E) and Ware, West Half (94F); Geological Survey of Canada, Open File 483.
- Sanguinetti, M.H. 1984. "Preliminary Report on the Ron 1 & 2 and the Lake 1 -4 Mineral Claims." for Pacific Ridge Resources Corp.
- Von Einsiedel, C. 1983. Report on Geological and Geochemical Survey, Ron 3 & 4 claims for Pacific Ridge Resources Corp.

## STATEMENT OF COST

RON 4, 5, 6, 7, 9, Du CLAIMS

Period of Work: June 01 - July 30, 1984

Personnel

W. Vanderpoll, Geologist	3 days @	\$250.00	\$ 750.00
A. Smallwood, Sr. Assistant	6 days @	\$150.00	900.00
E. Bonnar, Jr. Assistant	5 days @	\$150.00	750.00
J. Montgomery, Jr. Assistant	1 day @	\$150.00	150.00
D. Burkett, Jr. Assistant	4 days @	\$150.00	<u>600.00</u>
			\$ 3,150.00

Meals and Accomodation

19 man days @ \$25.00/day	475.00
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Vehicles and Equipment Rental

Shared as per attached statement	410.00
Magnetometer / 1 month	856.62

Explosives

224.35

Sundry Cost

Shared as per attached statement	815.00
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Air Charters

Shared as per attached statement	875.00
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Airlift	June 25	\$ 577.50	
	July 08	235.00	
	July 09	945.00	
	July 14	735.00	
	July 15	735.00	
	July 19	<u>472.50</u>	
			3,700.00

Assays and Geochem

Vangeochem invoice #7924, 8139, 7988	
Acme Labs invoice #84-1038, 84-2298	3,972.55

Consulting

D.A. Cooke, P.Eng. 2 days @ \$350.00	700.00
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Report

Draughting, typing, reproduction	<u>1,000.00</u>
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<b>TOTAL</b>	<u>\$16,198.52</u>
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## STATEMENT OF COST

RON 3, 8, 10, 11, OVERLOOKED CLAIMS

Period of Work: June 01 - July 30, 1984

Personnel

W. Vanderpoll, Geologist	4 days @	\$250.00	\$ 1,000.00
A. Smallwood, Sr. Assistant	6 days @	\$150.00	900.00
G. Bonnar, Jr. Assistant	5 days @	\$150.00	750.00
J. Montgomery, Jr. Assistant	1 day @	\$150.00	150.00
D. Burkett, Jr. Assistant	4 days @	\$150.00	<u>600.00</u>
			\$ 3,400.00

Meals and Accomodation

20 man days @ \$25.00 500.00

Vehicles and Equipment Rental

Shared as per attached statement 410.00

Sundry Cost

Shared as per attached statement 815.00

Air Charters

Shared as per attached statement 875.00

Airlift	July 23	\$ 682.50	
	July 25	<u>577.50</u>	1,260.00

Assays and Geochem

Vangeochem invoice #7977, 8070, 8056 2,026.95

Consulting

D.A. Cooke, P.Eng. 2 days @ \$350.00 700.00

ReportDraughting, typing, reproduction 1,000.00

TOTAL \$10,986.95



STATEMENT OF COST

EXPENSES SHARED BETWEEN:

ARK ENERGY (Ark Claims)  
 UNIVEX MINING (TUT Claims)  
 PACIFIC RIDGE RESOURCES (Lake 5 Claim; Ron 1-2 and Lake 1-4 Claim Group;  
 Ron 3, 8, 10, 11, Overlooked Claim Group; Ron 4, 5, 6, 7, 9, Du Claim Group)

Period of Work: June 01 - July 30, 1984

		<u>Total</u>	<u>Ark Claim</u>	<u>Tut Claim</u>	<u>Lake 5 Claim</u>	<u>Lake 1-4 Claim</u>	<u>Ron 3, 8 10, 11 Overlooked Claim</u>	<u>Ron 4, 5 6, 7, 9 Du Claim</u>
<u>Equipment Rentals</u>								
Radio telephone - \$350.00/month x 2 months	\$	700.00						
Intercamp radio		551.00						
Vehicle - \$360.00/week x 8 weeks		<u>2,880.00</u>						
		\$ 4,131.00	\$ 620.00	\$ 200.00	--	\$ 2,491.00	\$ 410.00	\$ 410.00
<u>Sundry Cost</u>								
Vehicle fuel	\$	269.96						
Shipping		1,133.09						
Meals and accomodation in transit		328.40						
Maps		881.98						
Telephone		191.02						
Airfare		582.49						
Expediting		1,025.00						
Expediting disbursements		1,075.05						
Materials		1,727.96						
Field Equipment Rental		700.00						
Miscellaneous costs and expenses		<u>229.46</u>						
		8,144.41	1,140.00	325.00	200.00	4,849.41	815.00	815.00
<u>Air Charters</u>								
NT Air:	June 16	451.50						
	June 11	2,029.00						
	June 16	451.50						
	July 27	<u>2,029.00</u>						
		<u>4,961.00</u>						

			<u>Total</u>	<u>Ark Claim</u>	<u>Tut Claim</u>	<u>Lake 5 Claim</u>	<u>Lake 1-4 Claim</u>	<u>Ron 3, 8 10, 11 Overlooked Claim</u>	<u>Ron 4, 5 6, 7, 9 Du Claim</u>
Central Mts	June 20	764.10							
	June 20	133.07							
	June 22	80.00							
	June 27	560.55							
	June 27	171.24							
	July 4	509.84							
	July 6	97.20							
	July 18	761.97							
		<u>3,077.97</u>							
Air Lift	June 16	682.50							
		<u>682.50</u>							
			<u>8,721.47</u>	<u>1,220.00</u>	<u>--</u>	<u>200.00</u>	<u>5,551.47</u>	<u>875.00</u>	<u>875.00</u>
<b>TOTAL</b>			<b>\$20,996.88</b>	<b>\$ 2,980.00</b>	<b>\$ 525.00</b>	<b>\$ 400.00</b>	<b>\$12,891.88</b>	<b>\$ 2,100.00</b>	<b>\$ 2,100.00</b>




**STATEMENT OF QUALIFICATIONS**

I, WIM VANDERPOLL, am a geologist, residing at 45-1101 Nicola Street, Vancouver in the Province of British Columbia, DO HEREBY CERTIFY THAT:

1. I am employed by Hi-Tec Resource Management Ltd. with offices at 1970-1055 West Hastings Street, Vancouver, B.C.
2. I graduated from the University of Tulsa (Oklahoma) with a B.Sc. in Geological Sciences in 1972.
3. I have practiced by profession for 12 years and during that period worked for Amax of Canada, Dolmage Campbell & Associates, McIntyre Mines, Canamax Resources and other companies.
4. This report is based on my personal examination of the property and on work carried out by crews under my direct supervision.
5. I do not have any direct or indirect interest in the property reported on nor do I expect to receive any such interest.

DATED AT VANCOUVER, B.C. this 1 day of October, 1984

  
WIM VANDERPOLL, Geologist

APPENDIX I

VANGEOCHEM LAB LTD.  
1521 Pemberton Ave.  
North Vancouver, B.C.  
V7P 2S3

TO: HI - TEC RESOURCES LTD.  
#1970 - 1055 W. Hastings Street  
Vancouver, B.C. V6E 2H1

FROM: Vangeochem Lab Ltd.  
1521 Pemberton Ave.  
North Vancouver, B.C. V7P 2S3

SUBJECT: Analytical procedure used to determine hot acid soluble  
for Cu, Pb, Zn, & Ag in geochemical silt, soil, and  
samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4" x 6" Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).
- (c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

VANGEOCHEM LAB LTD.  
1521 Pemberton Ave.  
North Vancouver, B.C.  
V7P 2S3

TO: HI - TEC RESOURCES LTD.  
#1970 - 1055 W. Hastings Street  
Vancouver, B.C. V6E 2H1

FROM: Vangoechem Lab Ltd.  
1521 Pemberton Ave.  
North Vancouver, B.C. V7P 2S3

SUBJECT: Analytical procedure used to determine Aqua Regia  
soluble gold in geochemical samples

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4" x 6" Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

- (a) 5.00 - 10.00 grams of the minus 80-mesh samples were used. Samples were weighed out by using a top-loading balance into beakers.
- (b) 20 ml of Aqua Regia (3:1 HCl : HNO<sub>3</sub>) were used to digest the samples over a hot plate vigorously.
- (c) The digested samples were filtered and the washed pulps were discarded and the filtrate was reduced to about 5 ml.

**WANGCHEM LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 84-352578

PREPARED FOR: HI TEC RESOURCE

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

REPORT NUMBER: 84-45-015 JOB NUMBER: 84246

PAGE 1 OF 3

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TBS - 198	9	26	45	-1.2	20
84 TBS - 199	26	30	74	.6	5
84 TBS - 200	30	33	102	1.0	10
84 TBS - 201	— 1100	35	63	-1.2	nd
84 TBS - 202	— 1100	40	-200	1.0	15
84 TBS - 203	30	26	60	.7	nd
84 TBS - 204	— 1600	25	-214	-1.1	nd
84 TBS - 205	76	33	109	.9	nd
84 TBS - 206	— 162	31	124	.6	nd
84 TBS - 207	29	28	95	.6	10
84 TBS - 208	35	26	67	.8	5
84 TBS - 209	— 379	37	111	-2.4	nd
84 TBS - 210	39	35	190	1.0	nd
84 TBS - 211	— 144	— 94	138	.8	nd
84 TBS - 212	52	38	99	.6	10
84 TBS - 213	15	30	85	.8	nd
84 TBS - 214	61	55	165	.7	nd
84 TBS - 215	29	29	74	.6	nd
84 TBS - 216	23	30	102	.6	5
84 TBS - 217	19	24	87	.1	10
84 TBS - 218	31	24	50	.6	10
84 TBS - 219	51	— 76	-405	1.6	15
84 TBS - 220	59	49	-332	.9	15
84 TBS - 221	— 251	45	-540	-2.0	nd
84 TBS - 222	68	— 76	-250	1.2	nd
84 TBS - 223	37	42	144	.5	nd
84 TBS - 224	— 194	45	-700	-4.2	nd
84 TBS - 225	— 255	— 56	-710	-2.4	5
84 TBS - 226	— 690	39	-220	-4.2	nd
84 TBS - 227	43	35	173	.4	nd
84 TBS - 228	49	10	78	.2	nd
84 TBS - 229	— 700	31	176	.7	10
84 TBS - 230	— 5900	10	21	1.7	nd
84 TBS - 231	— 2800	9	63	.5	nd
84 TBS - 232	— 560	35	-390	.6	nd
84 TBS - 233	96	30	116	.3	15
84 TBS - 234	19	26	72	.7	10
84 TBS - 235	14	29	75	.8	nd
84 TBS - 236	16	31	79	.4	10
DETECTION LIMIT	1	2	1	0.1	5

Row 1/100

VANGEDCHEN LAB LIMITED

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 84-352578

PREPARED FOR: HI TEC RESOURCE

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

REPORT NUMBER: 84-45-015

JOB NUMBER: 84246

PAGE 2 OF 3

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TBS - 237	7	21	82	.5	nd
84 TBS - 238	11	25	70	.8	nd
84 TBS - 239	14	34	162	.7	20
84 TBS - 240	15	35	85	.9	5
84 TBS - 241	19	35	102	.7	nd
84 TBS - 242	75	30	78	.8	50
84 TBS - 243	10	34	76	.7	10
84 TBS - 244	14	31	87	.8	25
84 TBS - 245	38	34	104	.7	is
84 TBS - 246	35	26	47	.2	30
84 TBS - 247	—490	9	14	.7	nd
84 TBS - 248	40	29	80	.5	5
84 TBS - 249	59	30	77	.6	20
84 TBS - 250	75	33	124	.8	50
84 TBS - 251	—111	31	64	.6	10
84 TBS - 252	60	35	137	.4	10
84 TBS - 253	60	34	110	.3	5
84 TBS - 254	—349	36	113	.7	5
84 TBS - 255	69	32	97	.8	10
84 TBS - 256	6	nd	6	.1	5
84 TBS - 257	—2660	19	24	1.1	10
84 TBS - 258	—590	37	80	nd	70
84 TBS - 259	—690	8	25	.4	nd
84 TBS - 260	52	32	59	.6	5
84 TBS - 261	—349	24	48	.6	nd
84 TBS - 262	—140	34	131	.7	15
84 TBS - 263	—144	31	94	—1.2	30
84 TBS - 264	90	28	140	.5	20
84 TBS - 265	39	19	78	.6	50
84 TBS - 266	70	20	84	.3	10
84 TBS - 267	—274	29	190	.7	30
84 TBS - 268	—285	6	17	.8	5
84 TBS - 269	60	31	98	.6	30
DETECTION LIMIT	1	2	1	0.1	5

Re-N 4/01

**WANGCHEEN LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 966-5211 Telex: 04-352578

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.

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

REPORT NUMBER: 84-45-018

JOB NUMBER: 84281

PAGE 1 OF 5

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TBS 334	1150	28	520	.7	nd
84 TBS 335	143	9	97	1.3	nd
84 TBS 336	136	6	165	1.4	nd
84 TBS 337	38	26	155	1.2	5
84 TBS 338	20	15	144	.8	5
84 TBS 339	48	27	286	.7	nd
84 TBS 340	79	40	570	1.8	nd
84 TBS 341	51	79	1000	.6	nd
84 TBS 342	24	14	84	.6	nd
84 TBS 343	80	21	115	.4	nd
84 TBS 344	36	18	96	.3	nd
84 TBS 345	170	40	230	.8	5
84 TBS 346	41	21	225	.3	5
84 TBS 347	79	28	328	.7	nd
84 TBS 348	39	31	280	.4	10
84 TBS 349	59	34	450	.6	5
84 TBS 350	201	47	760	4.2	10
84 TBS 351	36	22	156	1.2	5
84 TBS 352	31	24	169	.9	nd
84 TBS 353	31	19	178	2.0	10
84 TBS 354	52	26	195	.3	10
84 TBS 355	20	20	138	1.1	nd
84 TBS 356	840	44	275	1.3	10
84 TBS 357	280	16	98	.5	nd
84 TBS 358	3380	10	39	1.8	15
84 TBS 359	760	22	74	.7	40
84 TBS 360	2160	33	139	4.2	30
84 TBS 361	650	3	9	1.1	5
84 TBS 362	353	4	100	.6	nd
84 TBS 363	1100	16	139	2.0	5
84 TBS 364	189	31	760	1.2	nd
84 TBS 365	283	38	590	4.6	nd
84 TBS 366	185	53	420	1.4	nd
84 TBS 367	42	22	180	.4	5
84 TBS 368	39	44	278	1.2	5
84 TBS 369	45	21	228	.6	nd
84 TBS 370	27	18	157	.2	10
84 TBS 371	23	20	164	.2	nd
84 TBS 372	40	26	180	.5	10
DETECTION LIMIT	1	2	1	0.1	5

Row 4 / Dec

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

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.

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

REPORT NUMBER: 84-45-018

JOB NUMBER: 84281

PAGE 2 OF 5

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TBS 373	64	27	320	1.0	nd
84 TBS 374	120	41	450	1.6	5
84 TBS 375	40	9	31	.3	10
84 TBS 376	1200	12	50	1.0	nd
84 TBS 377	22	3	3	.2	nd
84 TBS 378	160	7	29	1.4	nd
84 TBS 379	175	23	124	.9	45
84 TBS 380	390	25	270	1.4	85
84 TBS 381	319	11	53	.6	40
84 TBS 382	520	18	60	.7	65
84 TBS 383	252	14	54	.6	120
84 TBS 384	155	15	60	1.2	40
84 TBS 385	290	22	60	1.3	255
84 TBS 386	1050	27	83	1.2	200
84 TBS 387	1000	26	77	.9	100
84 TBS 388	470	21	60	.7	115
84 TBS 389	114	15	49	.8	70
84 TBS 390	560	24	225	1.0	15
84 TBS 391	218	25	97	.5	20
84 TBS 392	97	41	255	1.1	20
84 TBS 393	120	24	220	.9	10
84 TBS 394	37	43	277	1.4	nd
84 TBS 395	38	47	700	.7	5
84 TBS 396	55	21	280	.7	40
84 TBS 397	3160	22	98	2.3	80
84 TBS 398	1350	24	84	1.4	60
84 TBS 399	740	15	65	.3	55
84 TBS 400	86	16	62	.5	35
84 TBS 401	770	20	74	1.4	nd
84 TBS 402	18	15	113	.6	10

Row 4 / Dec

DETECTION LIMIT

1 2 1 0.1 5



WANGCHEM 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: 84-45-012

JOB NUMBER: 84226

PAGE 1 OF 1

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TBS 643	31	17	49	.7	5
84 TBS 644	38	22	60	.6	10
84 TBS 645	25	17	45	.2	5
84 TBS 646	21	17	39	.4	10
84 TBS 647	51	15	63	.4	nd
84 TBS 648	24	13	41	.4	5
84 TBS 649	12	11	29	.4	nd
84 TBS 650	81	20	81	.4	5
84 TBS 651	35	15	41	.6	5
84 TBS 652	39	19	56	.3	nd
84 TBS 653	27	19	41	.4	10
84 TBS 654	24	16	46	.3	5
84 TBS 655	25	15	42	.5	5
84 TBS 656	25	18	45	.4	5
84 TBS 657	16	11	24	.4	10
84 TBS 658	<u>131</u>	17	34	.5	5
84 TBS 659	71	<u>32</u>	65	.8	nd
84 TBS 660	<u>115</u>	16	34	<u>1.5</u>	5
84 TBS 661	40	18	25	.9	5
84 TBS 662	59	21	51	.8	nd
84 TBS 663	29	18	40	.4	<u>35</u>
84 TBS 664	32	18	46	.3	nd
84 TBS 665	75	<u>35</u>	<u>132</u>	.6	5
84 TBS 666	41	16	47	.5	5
84 TBS 667	32	16	25	.7	<u>20</u>
84 TBS 668	20	12	15	.5	nd
84 TBS 669	13	13	60	.4	5
84 TBS 670	<u>122</u>	<u>26</u>	74	.8	5
84 TBS 671	30	18	<u>114</u>	.4	<u>55</u>
84 TBS 672	30	15	39	.9	5
84 TBS 673	27	17	44	.3	nd
84 TBS 674	30	16	40	<u>1.2</u>	nd
84 TBS 675	44	16	61	1.0	nd
84 TBS 676	75	20	70	.6	10
84 TBS 677	48	15	50	.8	5
DETECTION LIMIT	1	2	1	2.1	5

Row 11

COPY

VANGECHEM LAB LIMITED  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 966-5211 Telex: 04-352578

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.  
NOTES: nd = none detected  
: — = not analysed  
: is = insufficient sample

REPORT NUMBER: 84-45-021

JOB NUMBER: 84335

PAGE 3 OF 9

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TBS 678	83	15	39	.3	10
84 TBS 679	48	16	25	.8	5
84 TBS 680	44	18	31	.5	nd
84 TBS 681	59	21	41	1.0	nd
84 TBS 682	12	15	30	.6	nd
84 TBS 683	33	15	75	.7	10
84 TBS 684	24	17	71	.7	10
84 TBS 685	13	14	77	.6	5
84 TBS 686	27	15	67	.4	nd
84 TBS 687	<del>350</del>	15	<u>176</u>	.5	5
84 TBS 688	<u>136</u>	14	25	.7	nd
84 TBS 689	33	18	60	.6	nd
84 TBS 690	31	18	58	.4	nd
DETECTION LIMIT	1	2	1	0.1	5

Row 11

**WANGCHEEN 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: 84-45-015

JOB NUMBER: 84246

PAGE 3 OF 3

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
<sup>TGS</sup> 84 TSS 593	1100	22	82	.7	10
84 TSS 594	1250	29	75	.6	10
84 TSS 595	1500	28	104	.2	50
84 TSS 596	200	14	49	.6	10
84 TSS 597	32	15	60	.3	5
84 TSS 598	2130	33	115	.9	40
84 TSS 599	1750	24	84	1.4	30
84 TSS 600	1750	14	61	.4	220
84 TSS 601	650	10	46	.5	50
<sup>TGS</sup> 84 TSS 602	600	17	70	.6	75
84 TSS 603	375	22	200	.7	10
84 TSS 604	65	13	61	.4	nd
84 TSS 605	23	14	72	.4	10
84 TGS - 606	-1170	20	37	.9	45
84 TGS - 607	-4900	27	92	1.8	10
84 TGS - 608	-1660	25	130	.8	10
84 TGS - 609	121	22	109	.1	15
84 TGS - 610	30	25	60	.5	10
84 TGS - 611	-311	32	62	.3	80
84 TGS - 612	-149	35	98	.3	30
84 TGS - 613	-318	181	393	3.3	120
84 TGS - 614	-149	36	82	.7	65
84 TGS - 615	43	34	165	.5	5
84 TGS - 616	-138	46	297	1.6	10
84 TGS - 617	-174	55	1050	1.9	nd
84 TGS - 618	40	41	220	.9	nd
84 TGS - 619	-251	45	339	2.7	5
84 TGS - 620	-245	47	300	1.6	5
84 TGS - 621	44	40	245	1.0	nd
84 TGS - 622	45	41	156	.8	nd
84 TGS - 623	66	45	202	1.1	5
84 TGS - 624	137	56	353	2.7	15
84 TGS - 625	150	50	245	1.9	nd
84 TGS - 626	56	38	158	.8	10
84 TGS - 627	65	39	149	.7	5
84 TGS - 628	159	45	229	1.1	30
84 TGS - 629	171	38	84	.7	25
84 TGS - 630	121	34	93	.9	20
DETECTION LIMIT	1	2	1	0.1	5

Row 4 / Dec

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

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.

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

REPORT NUMBER: 84-45-018

JOB NUMBER: 84281

PAGE 3 OF 5

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TSS 631 <i>T65</i>	360	28	115	.7	60
84 TSS 632	390	41	256	1.3	75
84 TSS 633	1320	23	77	1.1	75
84 TSS 634	2320	27	90	2.0	45
84 TSS 635	1150	22	71	.5	265
84 TSS 636	1790	16	51	.7	110
84 TSS 637	2190	19	62	.7	90
84 TSS 638	1520	21	65	.9	165
84 TSS 639	400	22	71	1.1	210
84 TSS 640	2000	31	80	1.8	70
84 TSS 641	730	25	60	1.7	60
84 TSS 700 <i>T65</i>	2160	28	105	.8	nd
84 TSS 701	510	26	104	.4	200
84 TSS 702	135	18	85	.5	110
84 TSS 703	275	20	139	1.0	15
84 TSS 704	65	21	120	.6	15
84 TSS 705	32	40	360	.7	nd
84 TSS 706	25	37	270	1.0	nd
84 TSS 707	82	118	400	1.1	15
84 TSS 708	40	30	500	1.0	10
84 TSS 709	77	55	273	1.1	nd
84 TSS 710	70	29	164	1.6	5
84 TSS 711	3500	9	14	.9	20
84 TSS 712	50	14	31	.7	5
84 TSS 713	24	20	59	.4	15
84 TSS 714	24	17	62	.2	30
84 TSS 715	20	16	71	.4	30
84 TSS 716	5300	10	50	.8	35
84 TSS 717	8600	20	111	.3	80
84 TSS 718	6200	22	112	.7	20
84 TSS 719	900	24	101	.8	70
84 TSS 720	1870	10	46	.4	10
84 TSS 721	770	17	95	.6	160
84 TSS 722	123	12	34	.1	85
84 TSS 723	2110	26	150	.5	25
DETECTION LIMIT	1	2	1	0.1	5

*Row 4/10a*

WILBERSON LAB LIMITED  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 966-5211 Telex: 84-352578

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.

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

REPORT NUMBER: 84-45-018

JOB NUMBER: 84281

PAGE 4 OF 5

SAMPLE #	Cu	Pb	Zn	Ag	Au
	ppm	ppm	ppm	ppm	ppb
<i>TGS</i> 84 TSS 724	240	17	74	.2	90
84 TSS 725	190	21	113	.7	30
84 TSS 726	64	25	274	.5	10
84 TSS 727	90	45	620	1.7	nd
84 TSS 728	81	45	610	1.1	nd
84 TSS 729	40	43	300	1.6	nd
84 TSS 730	31	37	276	1.1	nd
84 TSS 731	34	32	302	1.4	nd
84 TSS 732	39	33	245	.9	nd
84 TSS 733	55	47	247	.8	nd
84 TSS 734	37	53	271	.4	nd
84 TSS 735	36	29	185	.6	nd
84 TSS 736	36	53	200	.8	10
84 TSS 737	38	24	143	.7	10
84 TSS 738	200	40	620	1.7	10
84 TSS 739	2200	23	100	1.0	90
84 TSS 740	850	22	90	.6	30
84 TSS 741	53	9	26	.6	nd
84 TSS 742	50	17	46	.5	nd
84 TSS 743	35	19	56	.3	15
84 TSS 744	21	20	95	.7	15
84 TSS 745	26	20	92	1.0	nd
84 TSS 746	52	22	73	.5	nd
84 TSS 747	43	24	90	1.1	nd
84 TSS 748	22	21	74	1.0	20
84 TSS 749	67	26	68	.8	nd
84 TSS 750	1990	26	87	1.0	80
84 TSS 751	900	23	59	.9	145
84 TSS 752	920	16	29	1.4	160
84 TSS 753	1200	18	46	.6	250
84 TSS 754	450	17	62	1.1	290
84 TSS 755	510	16	57	1.1	200
84 TSS 756	183	20	62	1.6	240
84 TSS 757	1900	29	96	1.1	30
84 TSS 758	2950	25	89	.8	80
84 TSS 759	2500	30	78	1.6	15
84 TSS 760	620	20	60	.4	80
84 TSS 761	243	16	58	.2	20
84 TSS 762	160	16	52	.4	15
DETECTION LIMIT	1	2	1	0.1	5

*Row 4/ma*

**WARRICK LAB LIMITED**  
 1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 966-5211 Telex: 04-352578

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.

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

REPORT NUMBER: 84-45-018

JOB NUMBER: 84281

PAGE 5 OF 5

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 <del>TSS</del> <sup>TGS</sup> 763	<u>1300</u>	21	78	.5	20
84 TSS 764	<u>189</u>	20	63	.8	10
84 TSS 765	<u>33</u>	19	57	<u>1.4</u>	nd
84 TSS 766	61	19	67	.5	5
84 TSS 767	34	18	<u>50</u>	.4	nd
84 TGS 1006	<u>300</u>	16	28	<u>1.2</u>	10
84 TGS 1007	<u>331</u>	16	32	<u>1.0</u>	nd
84 TGS 1008	<u>144</u>	18	30	<u>1.2</u>	<u>25</u>
84 TGS 1009	45	13	24	.5	nd
84 TGS 1010	25	16	50	.5	nd
84 TGS 1011	<u>111</u>	17	<u>194</u>	.4	10
84 TGS 1012	30	16	44	.6	nd
84 TGS 1013	63	15	54	nd	5
84 TGS 1014	35	17	59	.4	5
84 TGS 1015	42	16	56	.4	10
84 TGS 1016	70	20	35	<u>1.1</u>	nd
84 TGS 1017	63	19	35	.6	nd
84 TGS 1018	91	23	60	<u>1.1</u>	nd
84 TGS 1019	<u>242</u>	22	73	.7	10
84 TGS 1020	<u>340</u>	18	47	.7	<u>15</u>
84 TGS 1021	52	21	49	.1	10
84 TGS 1022	78	16	46	.4	nd
84 TGS 1023	71	20	45	.3	10
84 TGS 1024	50	10	15	<u>1.3</u>	nd
84 TGS 1025	<u>100</u>	15	30	.4	nd
84 TGS 1026	<u>167</u>	17	34	.6	nd
84 TGS 1027	85	18	45	.4	nd
84 TGS 1028	95	15	62	.2	5
84 TGS 1029	70	15	70	nd	nd
84 TGS 1030	43	15	55	.1	nd
84 TGS 1031	46	15	57	.4	nd
84 TGS 1032	48	17	32	.6	10
84 TGS 1033	59	22	42	.8	<u>15</u>
84 TGS 1034	55	20	37	.3	5

DETECTION LIMIT

1 2 1 0.1 5

COPY

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

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.  
 NOTES: nd = none detected  
 : — = not analysed  
 : is = insufficient sample

REPORT NUMBER: 84-45-021

JOB NUMBER: 84335

PAGE 6 OF 9

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TSS 529	36	21	51	.9	nd
84 TSS 530	30	17	46	.1	<u>20</u>
84 TSS 531	34	15	49	.4	<u>10</u>
84 TSS 532	35	15	55	.3	<u>15</u>
84 TSS 533	<u>115</u>	20	97	.3	5
84 TSS 534	30	15	36	.4	<u>15</u>
84 TSS 535	56	19	50	.8	<u>25</u>
84 TSS 536	22	18	42	.4	nd
84 TSS 537	<u>175</u>	24	<u>140</u>	.7	5
84 TSS 538	34	17	45	.4	10
84 TSS 539	40	16	42	.8	10
84 TSS 540	55	20	75	.3	10
84 TSS 541	94	20	78	.2	nd
84 TSS 542	20	14	27	.4	nd
84 TSS 543	67	15	32	.8	5
84 TSS 544	48	17	43	.7	10
84 TSS 545	28	18	44	.4	5
84 TSS 546	55	21	74	.2	nd
84 TSS 547	<u>620</u>	<u>155</u>	<u>640</u>	<u>15.6</u>	35
84 TSS 548	60	<u>25</u>	70	.7	5
84 TSS 549	18	15	31	.4	10
84 TSS 550	31	17	48	.5	5
84 TSS 551	39	33	294	.9	nd
DETECTION LIMIT	1	2	1	0.1	5

COPY

WANGEDICHEN LAB LIMITED

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 84-352578

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.

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

REPORT NUMBER: 84-45-021

JOB NUMBER: 84335

PAGE 9 OF 9

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TSS 552	32	15	35	.2	<u>50</u>
84 TSS 553	39	18	45	.4	nd
84 TSS 554	15	20	21	.5	nd
84 TSS 555	69	26	70	.4	5
84 TSS 556	<u>123</u>	23	49	.9	nd
84 TSS 557	<u>165</u>	27	41	1.0	10
84 TSS 558	46	15	32	.2	nd
84 TSS 559	20	15	31	.6	5
84 TSS 560	53	15	42	.6	10
84 TSS 561	35	12	24	.8	10
84 TSS 562	51	17	46	.6	10
84 TSS 563	<u>110</u>	22	35	.6	5
84 TSS 564	73	16	40	.7	10
84 TSS 565	63	15	25	.8	nd
84 TSS 566	83	20	48	.5	5
84 TSS 567	60	18	55	.4	5
84 TSS 568	53	20	55	.2	nd
84 TSS 569	65	25	<u>132</u>	.5	nd
84 TSS 570	55	24	<u>120</u>	<u>1.3</u>	5
84 TSS 571	70	17	59	.2	nd
84 TSS 572	50	22	<u>150</u>	<u>1.3</u>	10
84 TSS 573	60	20	86	.6	nd
84 TSS 574	70	33	<u>213</u>	<u>1.4</u>	nd
84 TSS 575	25	17	72	.5	nd
84 TSS 576	43	20	<u>130</u>	.3	5
84 TSS 577	52	15	47	.8	5
84 TSS 578	44	18	50	.6	nd
84 TSS 579	45	16	46	.3	nd
84 TSS 580	44	19	45	.5	<u>20</u>
84 TSS 581	<u>129</u>	20	<u>118</u>	nd	nd
84 TSS 582	93	16	<u>160</u>	.3	nd
84 TSS 583	52	15	54	<u>1.1</u>	10
84 TSS 584	45	17	34	<u>1.3</u>	nd
DETECTION LIMIT	1	2	1	0.1	5

COPY



WANGCHEM LAB LIMITED

1521 Pemberton Avenue  
 North Vancouver B.C. V7P 2S3  
 (604) 986-5211 Telex: 84-352578

PREPARED FOR: HI TEC RESOURCE

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

REPORT NUMBER: 84-45-011

JOB NUMBER: 84186

PAGE 1 OF 1

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au cob
84 TVS1	8900	19	71	1.8	305
84 TVS3	210	19	49	.2	110
84 TVL4	298	31	95	.4	25
84 TVL5	1840	22	85	.4	40
84 TVT 38	202	16	24	.5	nd
84 TVT 39	30	10	51	.4	nd
<b>84 TVT 40</b>	<b>216</b>	<b>16</b>	<b>17</b>	<b>1.0</b>	<b>500</b>
<del>84 TVT 41</del>	<del>0</del>	<del>0</del>	<del>0</del>	<del>0.0</del>	<del>0</del>
84 TVT 60	14	17	48	.3	15
84 TVT 61	650	930	7200	11.2	80
84 TVT 62	3760	67	13500	298.5	475
84 TVT 63	175	50	116	6.5	45
84 TVT 64	185	60	45	2.0	10
84 TVT 65	50	16	33	.9	5
84 TVL 66	<u>165</u>	16	<u>172</u>	.7	nd
84 TVL 67	<u>730</u>	18	<u>101</u>	.3	10
84 TVT 91	10	26	<u>304</u>	.3	nd
DETECTION LIMIT	1	2	1	0.1	5

**WASSERMAN LAB LIMITED**  
1521 Pemberton Avenue  
North Vancouver B.C. V7P 2S3  
(604) 986-5211 Telex: 04-332578

PREPARED FOR: PACIFIC RIDGE RESOURCES CORP.

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

REPORT NUMBER: 84-45-016

JOB NUMBER: 84244

PAGE 3 OF 3

SAMPLE #	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
84 TVT 41	88	66	126	5.3	200
84 TVT 42	2810	6100	26400	47.8	155
84 TVT 43	390	94	490	2.8	30
84 TVT 44	33	12	36	.7	15
84 TVT 45	254	40	91	.6	60
84 TVT 46	260	47	94	11.9	290

Kenco  
Ground

KENNCO



DUNCAN LAKE

COMINCO LTD.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

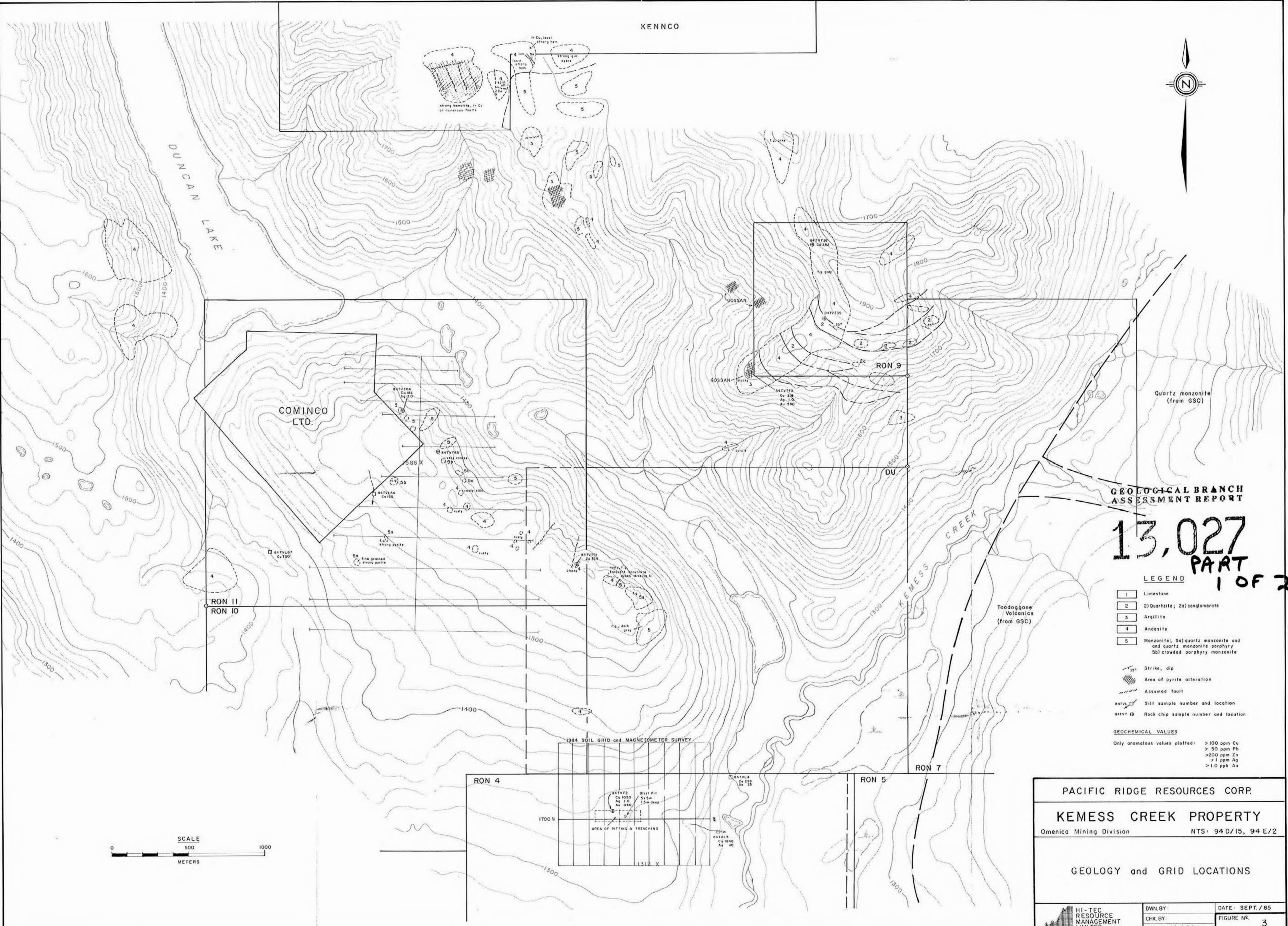
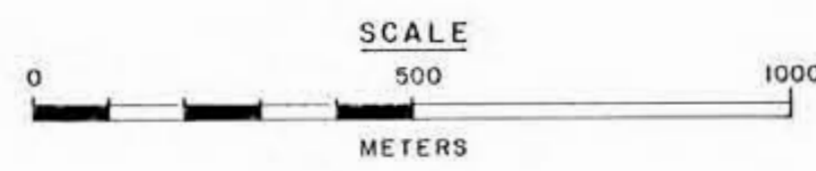
13,027  
PART  
1 OF 2

LEGEND

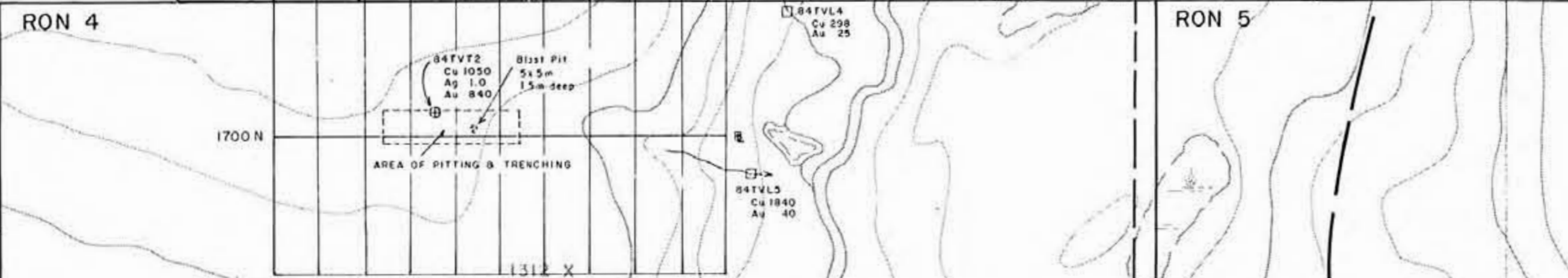
- 1 Limestone
- 2 2) Quartzite; 2a) conglomerate
- 3 Argillite
- 4 Andesite
- 5 Monzonite; 5a) quartz monzonite and quartz monzonite porphyry; 5b) crowded porphyry monzonite
- 35° Strike, dip
- Area of pyrite alteration
- Assumed fault
- Sill sample number and location
- Rock chip sample number and location

GEOCHEMICAL VALUES

Only anomalous values plotted: > 100 ppm Cu  
> 50 ppm Pb  
> 200 ppm Zn  
> 1 ppm Ag  
> 1.0 ppb Au



1984 SOIL GRID and MAGNETOMETER SURVEY



PACIFIC RIDGE RESOURCES CORP.

KEMESS CREEK PROPERTY

Omica Mining Division NTS: 94 D/15, 94 E/2

GEOLOGY and GRID LOCATIONS



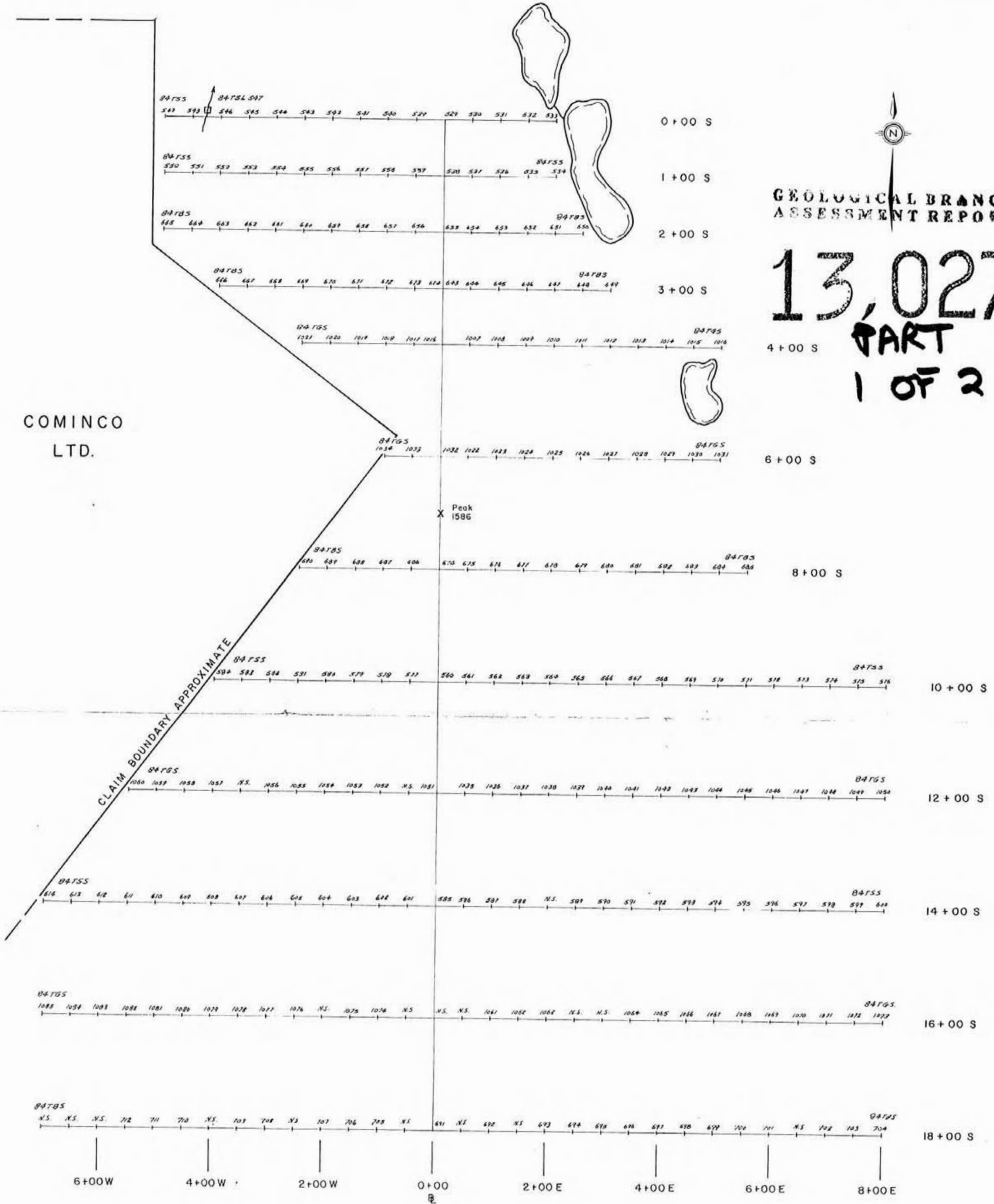
OWN BY: DATE: SEPT./85  
CHK BY: FIGURE NO: 3  
SCALE: 10,000

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**13,027**  
PART  
1 OF 2



COMINCO  
LTD.

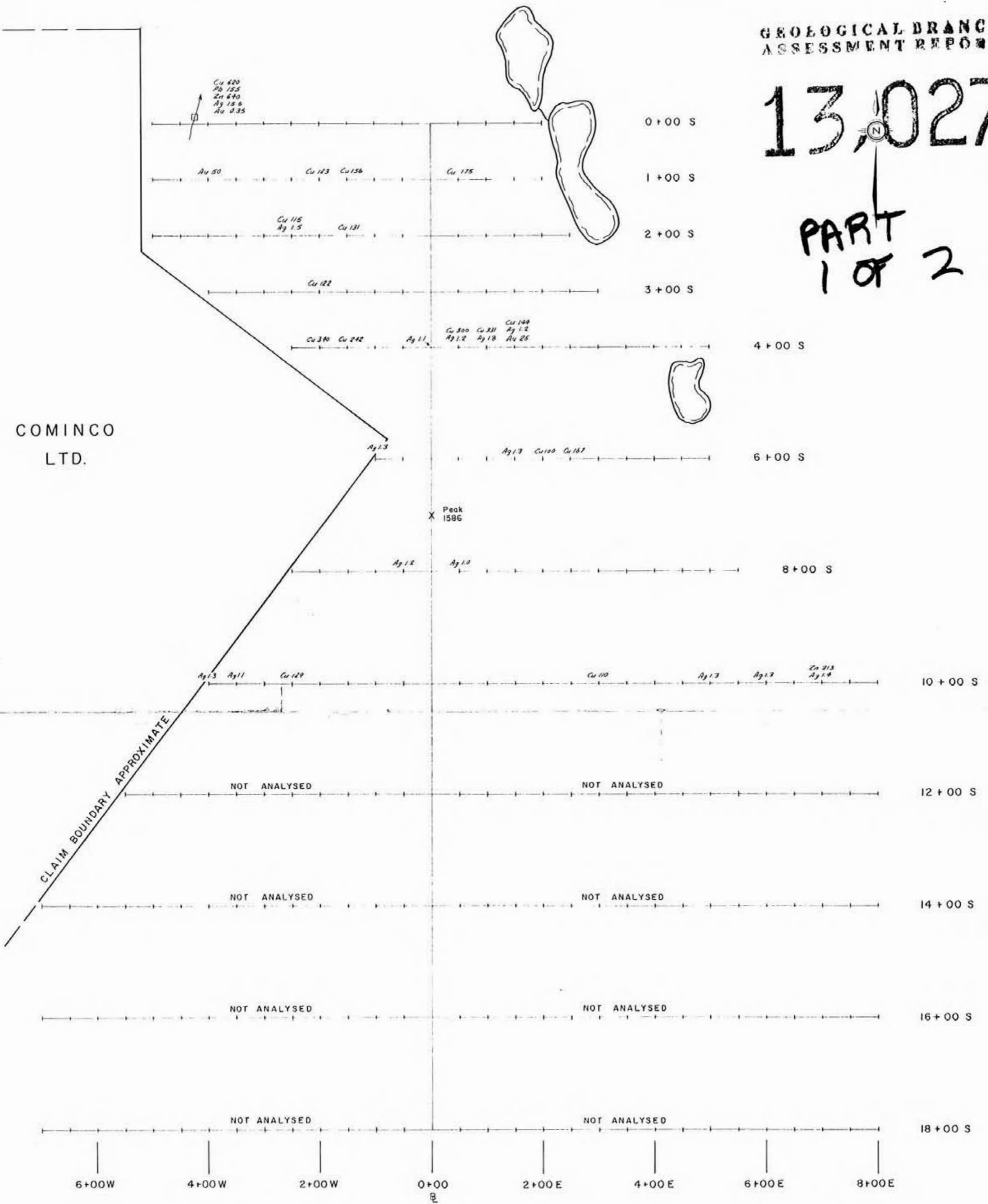


PACIFIC RIDGE RESOURCES CORP.		
KEMESS CREEK PROPERTY		
OMENICA M.D.	NTS 940/15, 94 E/2	
RON II CLAIM		
SOIL SAMPLE LOCATIONS		
	OWN BY CHK. BY SCALE: 1:5000	DATE: SEPT/84 FIGURE NO. 4

13,027

PART  
1 OF 2

COMINCO  
LTD.

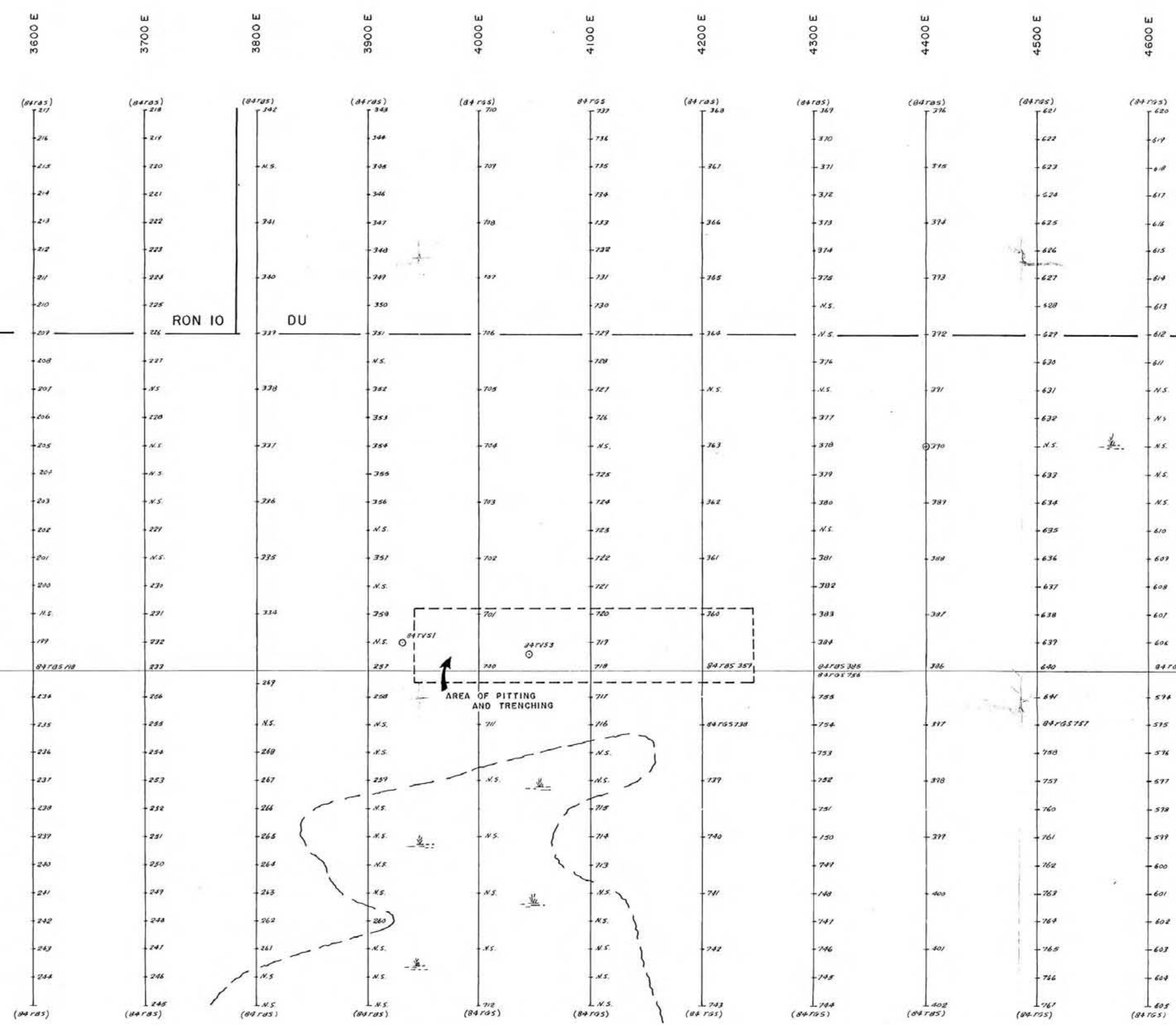


ANOMALOUS VALUES

- > 100 ppm Cu
- > 50 ppm Pb
- > 200 ppm Zn
- > 1.0 ppm Ag
- > 10 ppb Au



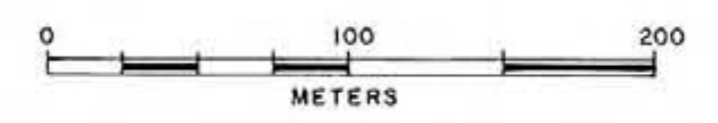
PACIFIC RIDGE RESOURCES CORP.	
KEMESS CREEK PROPERTY	
OMENICA M.D.	NTS 94D/15, 94 E/2
RON II CLAIM SOIL SURVEY	
Cu - Pb - Zn - Ag - Au (Anomalous values only)	
	CAN BY CHK BY SCALE 1:5000
DATE SEPT/84	FIGURE NO 5



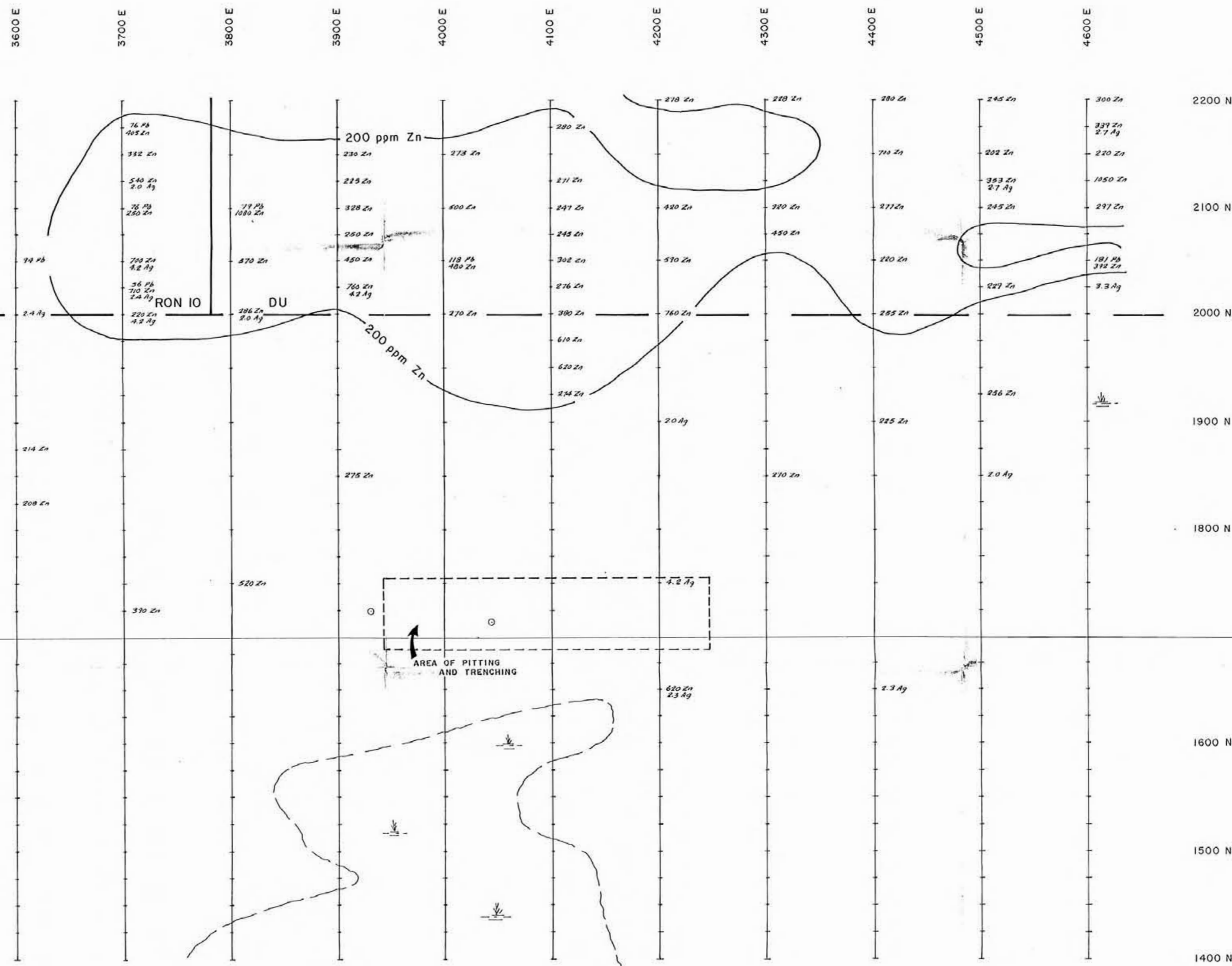
RON 4

RON 3

GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
**13,027**  
PART  
1 OF 2



PACIFIC RIDGE RESOURCES CORP.	
KEMESS CREEK PROPERTY <small>Omenica M.D. NTS 94D/15, 94 E/2</small>	
RON 4/ DU CLAIMS SOIL SAMPLE LOCATIONS	
HI-TEC RESOURCE MANAGEMENT LIMITED	DWN. BY: _____ CHK. BY: _____ SCALE: 1: 2500
DATE: SEPT. 84 FIGURE NO. 6	

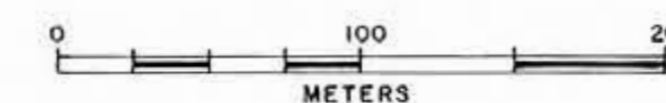


GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,027  
PART  
1 OF 2

Anomalous Values

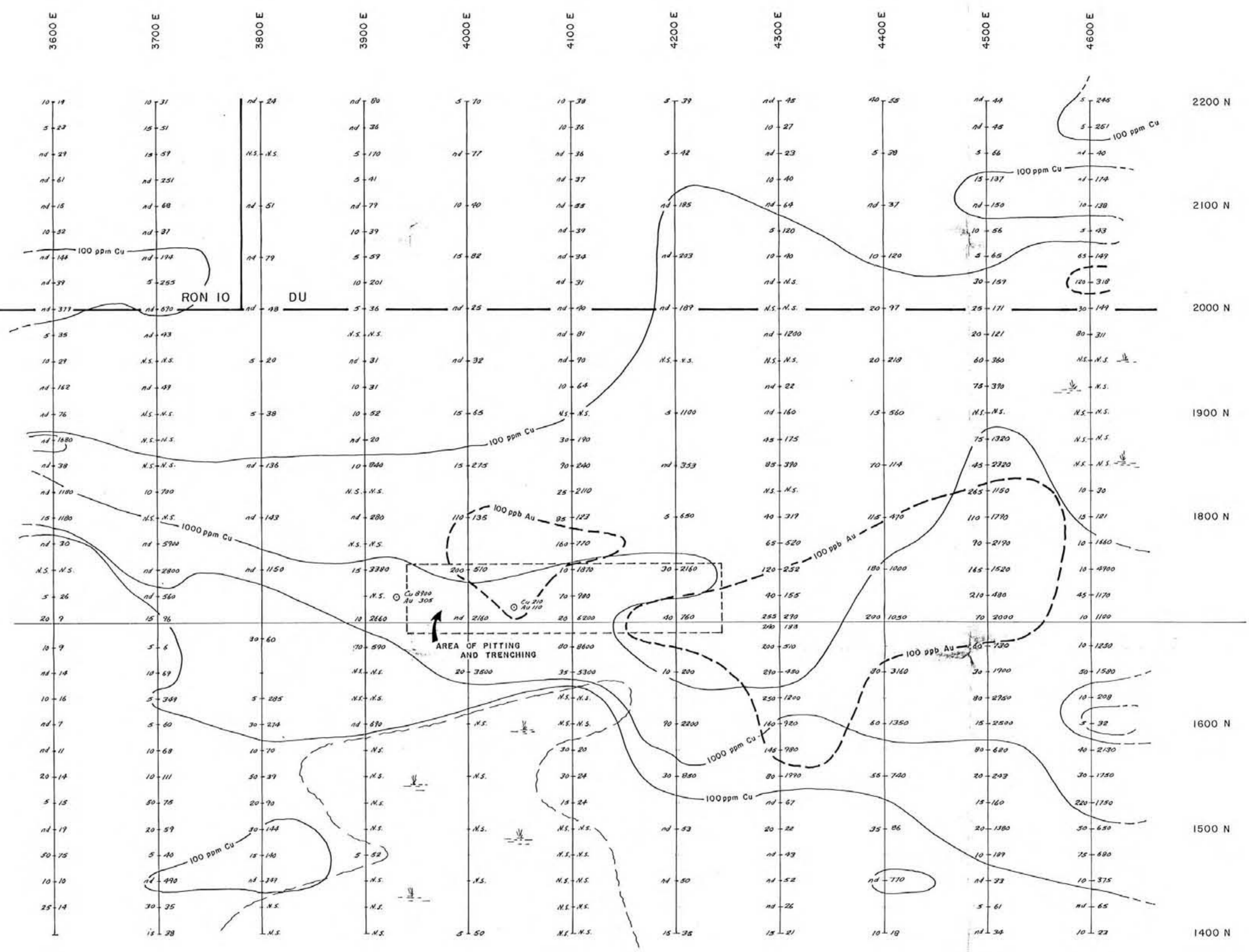
- > 50 ppm Pb
- > 200 ppm Zn
- > 2.0 ppm Ag



PACIFIC RIDGE RESOURCES CORP.		
KEMESS CREEK PROPERTY		
Omineca M.D. NTS 940/15, 94E/2		
RON 4 / DU CLAIMS		
SOIL SURVEY		
Pb - Zn - Ag		
(Anomalous values only)		
	DWN. BY:	DATE: SEPT. 84
	CHK. BY:	FIGURE NO. 7
	SCALE: 1: 2500	

RON 4

RON 3

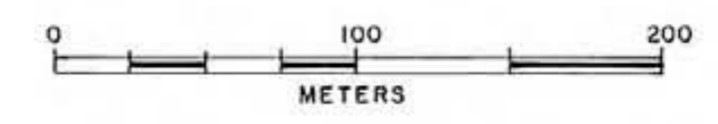


RON 4

RON 3

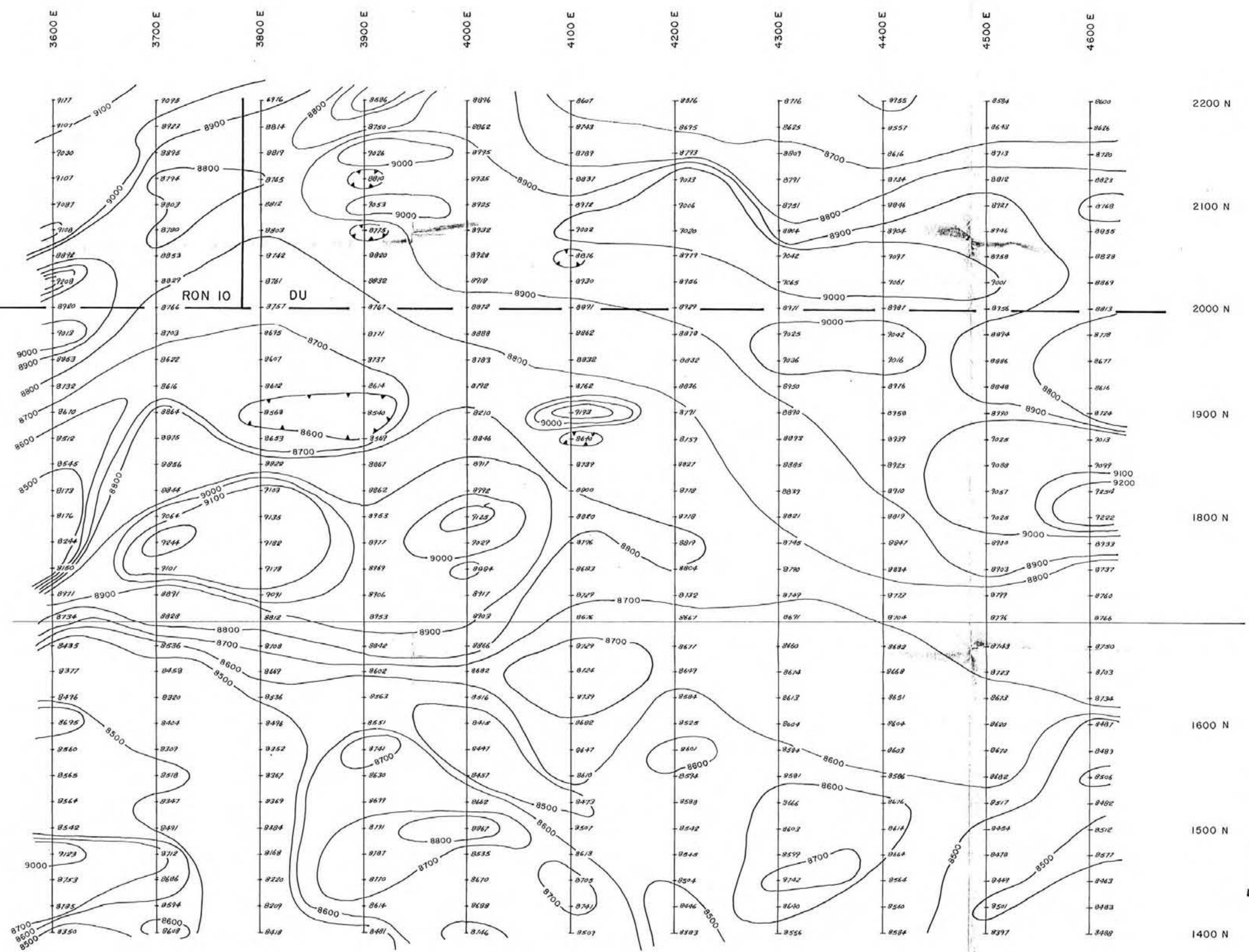
GEOLOGICAL BRANCH  
ASSESSMENT REPORT  
**13,027**  
PART  
1 OF 2

**LEGEND**  
Ppb Au Ppm Cu  
10-189  
nd none determined  
is insufficient sample  
N.S. no sample



PACIFIC RIDGE RESOURCES CORP.	
KEMESS CREEK PROPERTY Omenica M.D. NTS 940/15, 94 E/2	
RON 4/ DU CLAIMS SOIL SURVEY Cu - Au	
	DWN BY: _____ CHK BY: _____ SCALE: 1:2500
DATE: SEPT. 84	FIGURE NO. 8



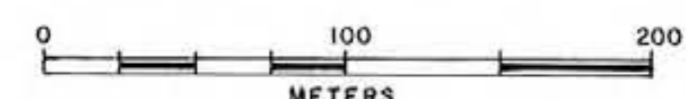


RON 4

RON 3

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,027  
PART  
1 OF 2



PACIFIC RIDGE RESOURCES CORP.		
KEMESS CREEK PROPERTY		
Omineca M.D.		NTS 94D/15, 94 E/2
RON 4/ DU CLAIMS		
MAGNETIC CONTOUR MAP		
Base reading: 50,000 γ		
	DWN. BY:	DATE: SEPT. 84
	CHK. BY:	FIGURE NO. 9
	SCALE: 1: 2500	