82-97-10161

SAWYER CONSULTANTS INC.

REPORT ON PRELIMINARY ASSESSMENT AND RECOMMENDED 1982 WORK PROGRAM FOR RON 1,2 CLAIMS (THUTADE GROUP) 94E/2

Longitude 126°52'W, Latitude 57°03'N

AND

RON 3,4,5,6 CLAIMS (KEMESS GROUP) 94E/2, 94D/15

Longitude 126°35'W, Latitude 57°00'N

Omineca Mining Division, British Columbia

for

PACIFIC RIDGE RESOURCES CORPORATION

JANUARY 28, 1982

(from November 13, 1981)

Suite 1201, The Royal Bank Building, 675 W. Hastings Street, Vancouver, B.C. V6B 1N2 Phone: (604) 669-6363

SUMMARY

At the request of Mr. Harry L. Williams, President of Pacific Ridge Resources Corporation, Sawyer Consultants Inc. provided a geologist and assistant to complete reconnaissance geology on the Ron 1 and 2, and Ron 3, 4, 5 and 6 claims in the Thutade Lake area of British Columbia. From September 2nd to September 20th a number of reconnaissance traverses were completed and subsequent in-house research and compilation resulted in recommendations for the 1982 season.

The Ron 1 and 2 claims area is projected to have a similar geological setting and mineralization as is found at the Chappelle property to the northwest. Assays of quartz vein material were as high as 0.02 oz. Au/ton, 1.12 oz. Ag/ton, 0.82% Cu., 0.09% Pb, and 0.06% Zn over 2.5 metres. The Ron 3, 4, 5 and 6 claims are extensively covered by overburden but limited exposure and float indicate a geological environment that may host low grade large tonnage copper-gold-silver mineralization similar to the New Kemess prospect to the north and quartz sulphide precious metal mineralization similar to the Chappelle Mine to the northwest. Reconnaissance float samples ran as high as 0.048 oz. Au/ton and up to 0.34 oz. Ag/ton, 1.2% Cu, 0.2% Zn, and 0.52% Zn.

Based on the above results it is recommended that both areas be grid mapped and soil sampled at an estimated total cost of $45,900.00 to be spent over a period of two months.

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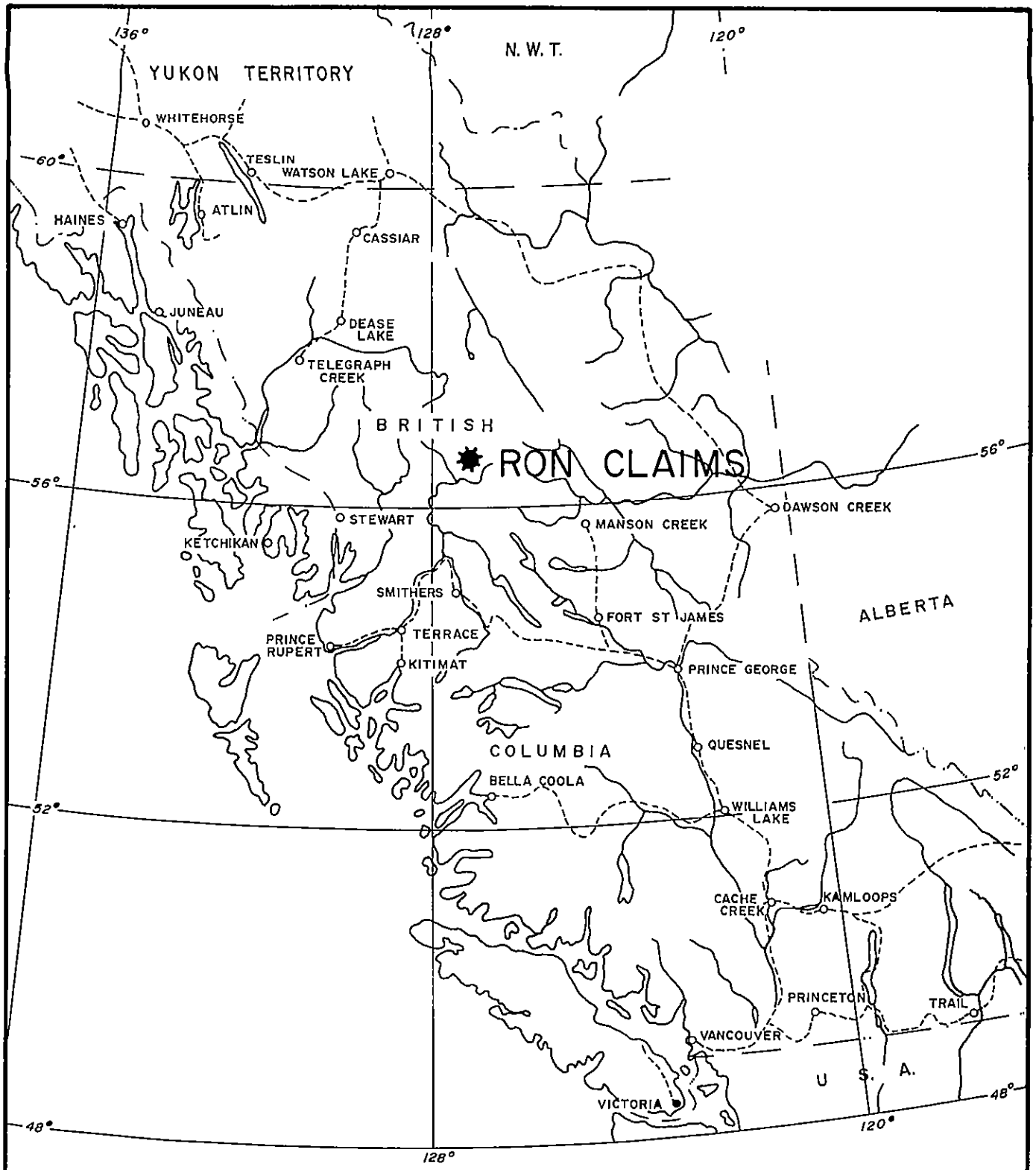


PACIFIC RIDGE RESOURCES CORP.	
GENERAL LOCATION MAP **RON 1,2,3,4,5,6 CLAIMS** OMINECA MINING DIVISION	
DATE: NOV 1981	SCALE: 1" = 125 MILES
DRAWN BY: C. L. C.	REF.
SAWYER CONSULTANTS INC	FIGURE 1

INTRODUCTION

In written communication to Mr. Harry L. Williams, President of Pacific Ridge Resources Corporation, on August 27th, 1981, Sawyer Consultants Inc. agreed to provide a report on the Ron 1, 2, 3, 4, 5 and 6 claims including recommendations for a 1982 work program.

From September 2nd to September 10th, 1981, Sawyer Consultants Inc. placed a geologist and field assistant on the Ron 1 and 2 claims. On September 10th the camp was moved to the middle of Ron 3, 4, 5 and 6 claims and reconnaissance was carried out in both areas and the results of that work, in-house research and recommendations for future work are contained herein.

PROPERTY, LOCATION, ACCESS, TITLE

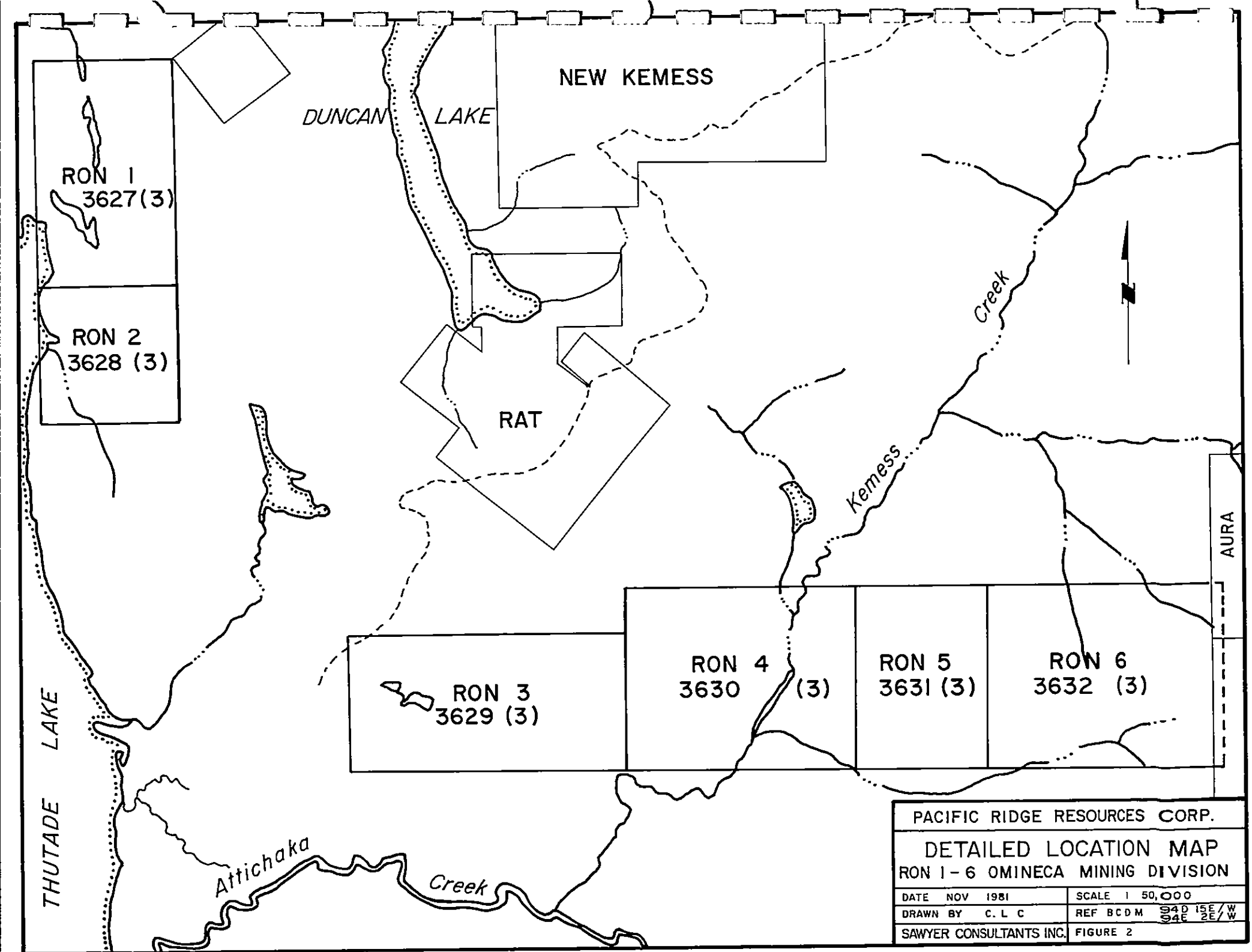
The Ron 1-6 claims are divided into the two separate areas that are covered by the Ron 1 and 2, and the Ron 3, 4, 5, and 6 claims. All six claims are located in the Omineca Mining Division, British Columbia. The Ron 1 and 2 claims are on map sheet 94E/15W at 126°52'W longitude and 57°03'N latitude. The Ron 3, 4, 5, and 6 claims straddle the boundaries of map sheets 94E/15W, 94D/2W, 94E/15E and 94D/2E with the centre of the four groups being at approximately 126°35'W longitude and 57°00'N latitude. (Figures 1 and 2.)

Access to the property at the present time is provided by float plane to Thutade Lake or helicopter from Smithers, some 260 kilometres to the south. All weather dirt road access is available to Johanson's Landing on the east side of Johanson Lake and a cat trail exists from Johanson Lake to McConnell Creek. It is therefore expected that cross country cat access to the Ron claims some 12 miles to the northwest could be achieved without much difficulty.

The Pacific Ridge Resources Corporation holdings include the Ron 1-6 claims comprised of a total of 94 units. The claims were staked in February 1981 and were recorded in Smithers on March 3rd, 1981 as follows:

Table 1 - Property and Ownership

Claim Name	Record No.	Registered Owner	Expiry Date
Ron 1 (15 units)	3627(3)	I. Wong, Director, Pacific Ridge Res. Corp.	March 3, 1982
Ron 2 (9 units)	3628(3)	H.L. Williams, President, Pacific Ridge Res. Corp.	March 3, 1982
Ron 3 (18 units)	3629(3)	"	"
Ron 4 (20 units)	3630(3)	"	"
Ron 5 (12 units)	3631(3)	"	"
Ron 6 (20 units)	3632(3)	"	"



PACIFIC RIDGE RESOURCES CORP.

DETAILED LOCATION MAP

RON 1 - 6 OMINECA MINING DIVISION

DATE NOV 1981	SCALE 1 50,000
DRAWN BY C. L. C	REF BCDM 94D 15E/W 94E 2E/W
SAWYER CONSULTANTS INC.	FIGURE 2

HISTORY

Placer mining for gold in the McConnell Creek camp dates back to 1899. Recoveries to the 1950's were sporadic and of fine grain size. The search for hardrock deposits was also intermittent to the 1950's.

Cominco staked and explored lead/zinc skarn mineralization to the north of McConnell Creek in the Lawyer's Pass area in the 1930's. Lord (1949) published locations for numerous copper, gold and silver prospects along the Moose Valley.

From 1968 to 1972 Kennco Explorations carried out regional porphyry copper geochemistry programs in the Toodoggone River area that resulted in the discovery of the prospect that became the Baker or Chappelle Mine of Dupont. In 1973 Conwest took an option on the property and completed about 200 metres of underground work on the main gold/silver vein and 546 metres of underground drilling. Results were discouraging. From 1974 to 1976 Dupont continued exploration on the A Vein system and eventually proved up about 52,000 tons of 1.07 oz. Au/ton and 23.2 oz. Ag/ton in the main zone. Numerous other vein systems were also discovered. Kennco maintained an interest in the neighbouring Lawyer's property to the northwest which is presently being operated by Serem.

Other significant discoveries in the 1960's and 1970's included the New Kemess property of Getty Mines Ltd. and the Thutade Lake property of Quebec Cartier Mining Company, now covered by Ron 1 and 2 claims.

The New Kemess property is believed to have been originally a Kennco anomaly and drill target that was followed up by Getty with further drilling in 1975 and 1976. Approximate averages for these drilling results are summarized below:

Table 2 - Drilling Summary Kemess Prospect

Hole No.	Length	Cu %	Ag oz./ton	Au oz./ton
K75-1	247'	0.20	0.09	0.014
K75-3	284.5'	0.21	0.08	0.012
K75-4	607'	0.13	0.10	0.009 plus (MoS_2)
K76-3	1048'	0.17	0.12	0.010
K76-5	690'	0.21	0.12	0.012

The Thutade Lake property of Quebec Cartier Mining was staked in 1970 to cover a magnetic anomaly from a 1969 airborne survey in the vicinity of four Crown Grants covering known skarn mineralization. Twenty-three line miles of soil sampling and magnetics, and 17.6 line miles of IP were completed defining six anomalies. The area was mapped and four surface showings were exposed. The highest grade mineralization was found in pockets in skarn in showing #1 and ran 6.6% zinc, 2.1% lead, 0.14% copper, and 1.4 oz. silver/ton across 10 feet. Further work was recommended at the time but not carried out.

In 1968 Cominco staked the Rat claims to cover a projected porphyry copper environment. In 1968 and 1969 geological and geochemical work was completed and anomalous copper/molybdenum values in soils were obtained. No further work was done.

GEOLOGY

Regional

The Ron claims area is underlain by Triassic/Jurassic volcanics and sediments of the Takla Group. They have been intruded by Jurassic/Cretaceous granitics. (Figure 3.)

Major northerly and northwesterly fracture systems pass through the general area east of the Ron 3, 4, 5 and 6 claims, and through the Ron 1 and 2 claims respectively.

Stratabound Rocks

Toodoggone acid volcanics and conglomerates of Jurassic age overlap much of the earlier Triassic Takla Group andesites and andesite porphyry. Minor amounts of the Permian Asitka Group skarns are locally associated with skarn sulphide mineralization. To the west of the area of interest lie earlier Cretaceous and Tertiary sedimentary packages.

The Asitka Group is comprised mostly of marble with chert, argillite and limestone and metamorphosed equivalents, and has been mapped and associated with skarn mineralization of the Thutade Lake (Ron 1 and 2) and Chappelle gold-silver properties. These metasomatized pockets are in contact with Omineca intrusives and have been highly folded with interbedded chert horizons. They host tremolite-garnet-magnetite and sulphide mineralization.

The Takla Group volcanics appear to host many of the known copper-gold-silver showings of the Lawyer's Pass and McConnell Creek areas. Lord (1949) divided the Takla into a lower pyroxene andesite,

Legend

TERTIARY

lTB — Brothers Peak Fm Conglomerate, sandstone, siltstone, and acid tuff, minor coal

CRETACEOUS

uRT — Tango Creek Fm Conglomerate, sandstone and siltstone, minor coal

JURRASSIC

lJRqm — Quartz monzonite and granodiorite, locally mega-crystic: migmatite, gneiss. (EJqmd equivalent of O F 342 (?))

JRT — 'Toodoggone' Volcanic rocks: Dacite, latite, rhyolite, tuff, breccia, flows; local maroon weathering conglomerates, includes local intrusive equivalents. (lJT equivalent of O F 342 (?)).

EJqd — Asitka Peak Stock Quartz diorite

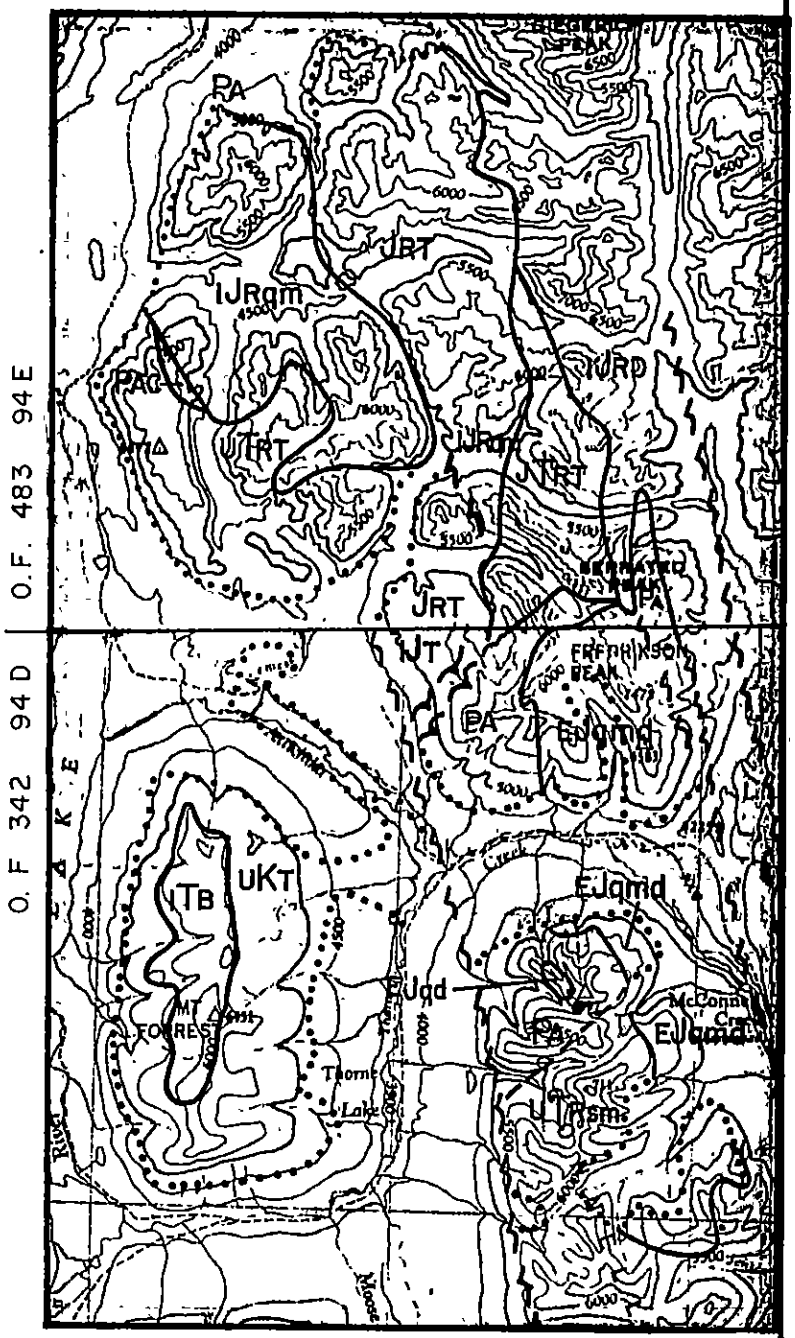
TRIASSIC

uTRsm — Savage Mountain Fm. Basic augite porphyry basalt flow, breccia, pillow breccia, tuff and interbedded bladed feldspar porphyry

PERMIAN

PA — Asitka Group (?) Chert argillite, limestone. greenstone,

PAc — Asitka Group (?) Marble



PACIFIC RIDGE RESOURCES CORP.	
REGIONAL GEOLOGY RON 1,2,3,4,5,6 CLAIMS OMINECA MINING DIVISION	
DATE NOV 1981	SCALE 250,000
DRAWN BY: C. L C	REF. O F. 483, 342
SAWYER CONSULTANTS INC	FIGURE 3

a basalt, an agglomerate division, a middle reddish andesite, basalt pyroclastic pile division, and an upper mainly shlllow marine sediment division. Barr (1978) acknowledges the existence of four different andesite units of the Chappelle Mine that appear to correlate with Lord's middle division. Similar units have been logged in drill holes by Getty Mines at the Kemess Creek property.

The Toodoggone Group overlies the Takla Group and forms the eastern contact with the Omineca intrusives in the Ron claims surrounding area. The Lawyer's mineral prospect is believed to be hosted in brecciated trachyte porphyry of the Toodoggone volcanics. The three main units described by Barr (1978) are:

(1) Pyroclastic assemblage (purple agglomerates).

(2) Rhyolite, dacite pile with quartz feldspar porphyries.

(3) Upper dacites, quartz-eye feldspar porphyries.

Intrusives

The Omineca intrusives are granitic stocks characterized by the Black Lake intrusion which runs through the map area from northwest to southeast. It varies in composition from quartz monzonite to granodiorite and local megacrystic, migmatitic and gneissic varieties. It is generally thought that these bodies represent one general period of emplacement (Lord, 1949).

Gold-silver veins, skarn mineralization and "porphyry" copper prospects are all known to occur in association with and bordering on this Black Lake stock.

Structure

It is generally conceded that structure has played a major role in the emplacement of Lawyer's and Chappelle gold-silver mineralization. Barr (1978) describes the deposition of mineralization as occurring on a northwest trending, hydrothermally altered, fault zone some 17 kilometres long. Traces of this or a parallel system exist along strike with mineralization on the Ron 1 and 2 claims, and Ron 3, 4, 5 and 6 claims, and is consistent with the regional stratabound contacts, folding and tectonic trends. To the south on map 94D it is referred to as the Moose Valley Fault. A second more northerly trending fault, the Ingenika Fault, splays off the Moose Valley system to the south and borders the eastern side of the Ron 6 claims.

Local Geology

RON 1 and 2

The area covered by the Ron 1 claim was previously mapped by Sanguinetti in 1970. This mapping was confirmed and extended to the Ron 2 claim by Sawyer Consultants Inc. in 1981 (Figure 4). The area is underlain by Takla porphyritic andesites and a window of Asitka cherty skarns and limestones in contact with an Omineca quartz monzonite-granodiorite stock.

Intrusives

The granitic stock, believed to be an extension of the Black Lake stock, ranges in composition from medium to fine grained quartz monzonite to diorite-quartz diorite. Where the intrusive is in contact with volcanics disseminated pyrite may occur. At limestone contacts typical skarn mineralization can occur. Sanguinetti noted the presence

of a chilled margin up to 30 feet wide.

Stratabound Rocks

The greater part of the western and central portion of the claims is underlain by porphyritic andesite of the Takla Group. At showings #1 and #3, disseminated pyrite and chalcopyrite occur with propylitic alteration. Heavy silicification can also occur in the andesite and associated pyrite as at locations 56146 and 56147. The most significant quartz vein discovered was at locations 51648 and 51649. The structure is again hosted by porphyritic andesite and is quartz and sulphides up to 2.5 metres across. Pyrite, malachite, galena and sphalerite are all visible in oxidized surface samples, the best of which ran 0.02 oz./ton gold, 1.12 oz./ton silver, 0.82% copper, 0.09% lead, and 0.06% zinc across 2.5 metres (51648). At 20 metres east of the lake shore and 200 metres north of sample 56148, a massive quartz vein with no obvious mineralization was sampled and ran less than 0.002 oz./ton gold, 0.26 oz./ton silver, 0.18% copper, less than 0.01% lead, and 0.02% zinc. The structure strikes north to northeasterly. Other traverses to the east of the lake shore indicated this area is also underlain by Takla volcanics.

Sampling results on Ron 1 in the previously known skarn mineralization confirmed the findings of Quebec Cartier in 1970. Skarn pods in folded and metasomatized cherty limestone host very spotty lead-zinc-copper mineralization. The limestone is massive to coarsely crystalline and white to brown in colour.

RON 3, 4, 5 and 6

Mapping on the Ron 3, 4, 5, and 6 claims area is greatly hampered by heavy overburden. Projection of the regional geology and the inspection of float suggest that the area is also underlain predominantly by andesitic Takla volcanics.

One area on Ron 3 was found to contain some outcrops and sub-outcrop consisting of andesite hosting northeasterly trending pyritiferous dacite dykes. Associated with these structures was one identifiable quartz vein float train trending north-northeasterly.

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 at least partially caused the emplacement of the abundant iron sulphide and occasional copper mineralization.

RESULTS - 1981

RON 1 and 2

Eight days of prospecting on the Ron 1 and 2 claims confirmed the results obtained in skarn mineralization of the Permian Asitka Group by Cordilleran Engineering Ltd. (Quebec Cartier Mines). In 1970 the porphyry copper program did not indicate a good porphyry environment although numerous small copper-lead-zinc geochemical anomalies and numerous I.P. anomalies were outlined. The 1981 work was primarily directed at determining the potential for high grade precious metal deposits similar to the Lawyer's and Chappelle deposits to the northwest.

It was determined that although the overburden cover is extensive the exposed geology and projected structure are very favourable. The most significant discovery was the occurrence at location 56148 and 56149 that indicates anomalous gold-silver values in the Takla Group porphyritic andesite hosted quartz vein. In comparison with the Chappelle case history there are numerous important similarities.

(1) The apparent strike of the vein system is similar to the Chappelle A Vein system.

(2) The host rocks are the same.

(3) The same regional structure probably passes through the Ron 1 and 2 mineralized area.

(4) The Chappelle deposit is associated with skarn mineralization in the Asitka rocks some 1500 metres to the southwest of the A Vein system.

(5) Numerous other occurrences exist in the Chappelle camp that do not contain the very high grade values that are being mined at present. The veins appear to be similar to the one found at locations 56148, 56149.

(6) High gold values are associated with copper mineralization at both places.

It is important to remember that the Chappelle discovery included the efforts of four major exploration organizations and an elapsed time of some 40 years. Given the limited size of these deposits the historical information of the Chappelle case history becomes most valuable.

Table I-1, Appendix I, summarizes results of the sampling on Ron 1 and 2.

RON 3, 4, 5, and 6

General reconnaissance over the Ron 3, 4, 5, and 6 claims was completed from September 10th to September 20th, 1981. Heavy overburden cover was encountered over all claims but for the northern and central portion of Ron 3 and 4 (Figure 5). A number of float and sub-outcrop samples were analysed for gold, silver and occasionally copper. An anomalous geological and geochemical zone in the centre of Ron 3 has been roughly outlined. A northeasterly trending series of sub-parallel dykes was located and sampled giving locally moderately high gold-silver values with abundant visible pyrite, occasional chalcopyrite and malachite. One sample of float, 56154, contained visible pyrite, chalcopyrite and galena in quartz vein material that ran 0.005 oz./ton Au, 0.34 oz./ton Ag, 1.20% Cu, 0.20% Pb and 0.52% Zn.

One north-northeasterly trending quartz vein crosscutting a dacite dyke system was generally barren but did produce anomalous gold (0.01 oz./ton) and silver (0.13 oz./ton) near the vein/dyke contact.

The interpretation of mapping in this heavily covered area is greatly subject to projection from the surrounding areas. However, the exposure that is evident on Ron 3 is of great interest due to the degree of silicification, heavy pyrite and occasional visible base metal sulphides and anomalous gold-silver values. Given the important discovery of low grade copper-gold-silver mineralization to the north (New Kemess prospect) and the potential for quartz gold veins, any further interpretation must come from indirect prospecting methods.

A summary of sample descriptions and results is given in Table I-2 of Appendix I.

PROPOSED WORK 1982

Due to heavy overburden cover encountered in all areas prospected in 1981 indirect methods known to have been successful on neighbouring projects are recommended for both the Ron 1 and 2 claims, and the Ron 3, 4, 5 and 6 claims.

It is felt that the best potential for economic mineralization at this time is in gold-silver veins similar to the Chappelle or Lawyer's properties to the northwest. A thorough understanding of these deposits and their exploration histories may best be acquired by visiting the project sites. The following program is designed to locate these types of mineralization but will also indicate potential for large low grade mineralization as has been discovered at the Kemess prospect.

Initially it is important to put exploration grids in the areas of known, immediate interest. On Ron 1 and 2 the best indications are around locations 56148 and 56149 where mineralization similar to Chappelle veins, both in geology and chemistry, have been located.

The Chappelle mineralization is found in drusy and banded grey to white quartz veins in silicified prophyritic andesite, with the high grade A Vein occurring in proximity to a quartz feldspar porphyry dyke. These veins are hundreds of metres in length and 3-10 metres in width. Associated mineralization includes 1%-10% pyrite, increased copper, anomalous zinc and decreases in rubidium and strontium trace elements. Argentite and electrum provide the gold-silver values (Barr, 1978).

Surface leaching and weathering continues to a depth of 5 metres and anomalous values in leached quartz veins are, at their

greatest, in the order of 0.8 oz./ton silver and 0.05 oz./ton gold. Supergene chalcocite, bornite and covellite are found at all levels of the Chappelle A Vein to a depth of 150 metres.

Soil sampling on the main Chappelle area is limited due to the terrain but anomalous values in gold and silver up to 0.08 oz./ton and 2.0 oz./ton respectively were obtained (Barr, 1978).

The only geophysical methods described by Barr are magnetics which he explains was of little value in predicting the occurrence of quartz vein sulphides in overburden covered areas. However on the Saunders claims of Golden Rule Resources Ltd. adjacent the Lawyer's property coincident gold-silver geochemistry and pronounced VLF-EM have outlined a zone 80-200 feet wide and 1300 feet in length which is to be tested by trenching and drilling.

The initial phase of exploration on both Ron 1 and 2, and 3, 4, 5, and 6 is therefore recommended to include copper-gold-silver soil geochemistry and VLF-EM over two grids. This can be followed up by mechanical trenching in areas of interest in a second phase.

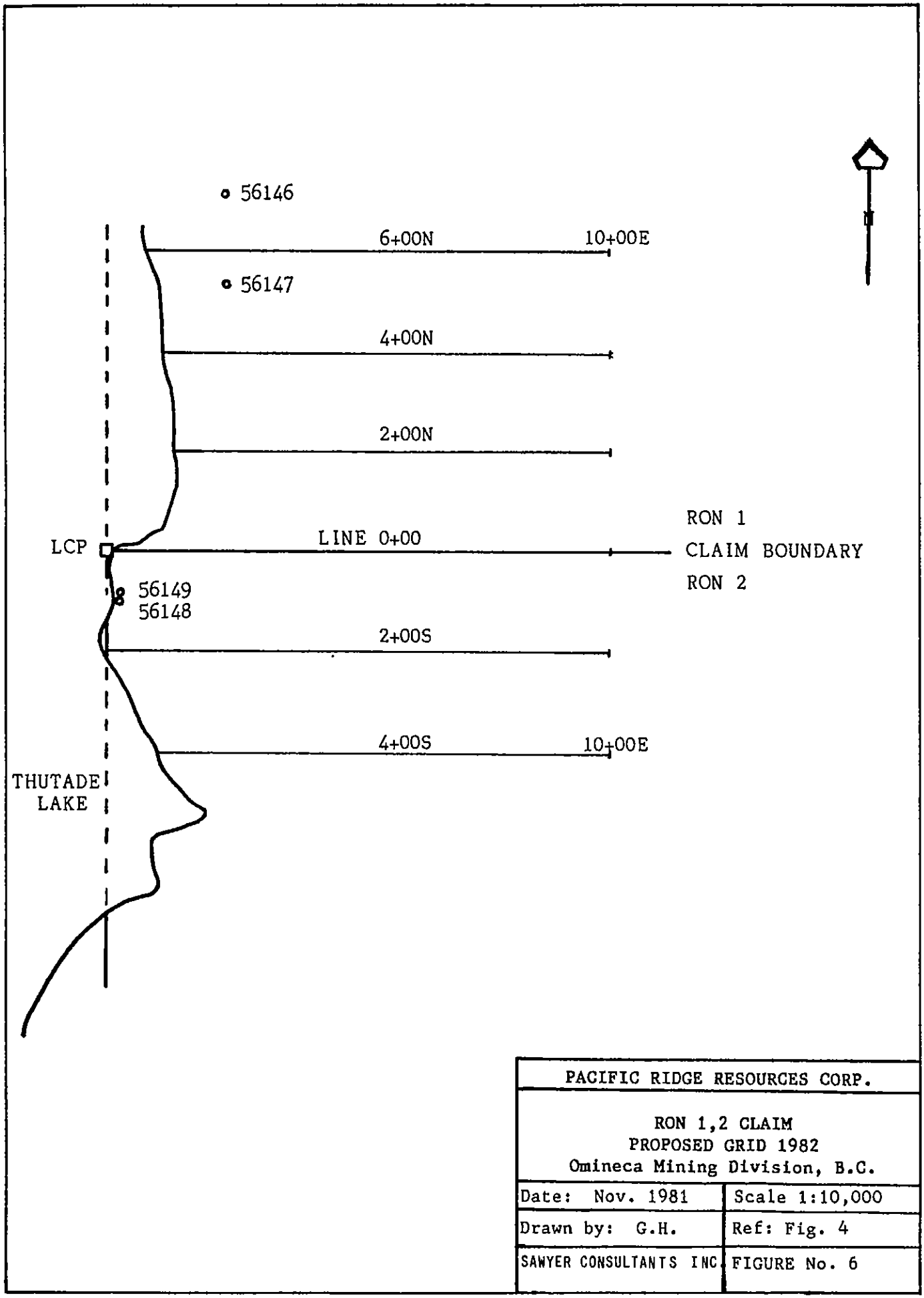
Phase I

Ron 1 and 2

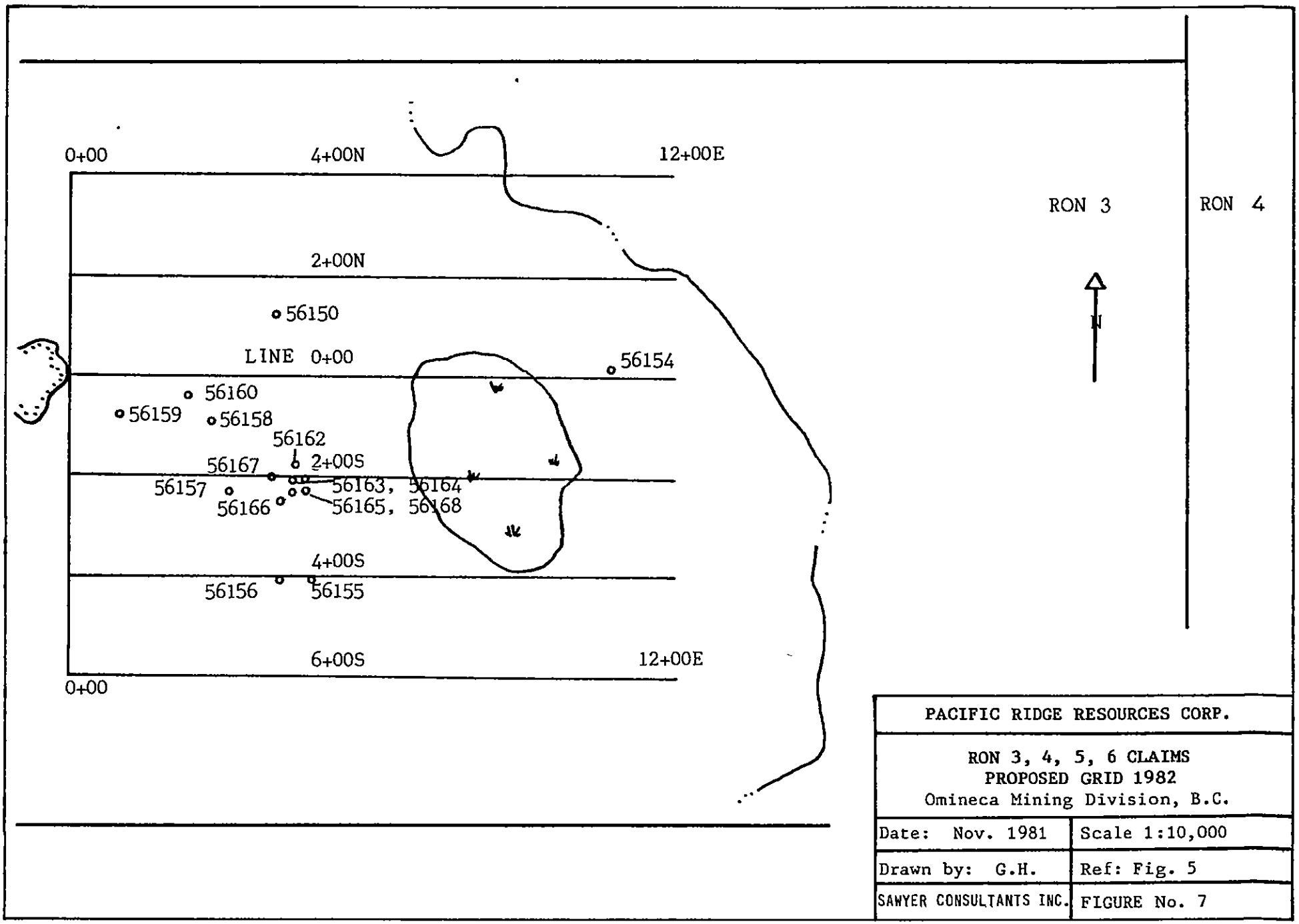
Close spaced EM, soil sampling and geology totalling 6 line kilometres of grid is proposed as Phase I (Figure 6).

Ron 3, 4, 5 and 6

Close spaced EM, soil sampling and geology totalling 7.2 line kilometres of grid and continued detailed reconnaissance is proposed for a continued Phase I (Figure 7). Reconnaissance work totalling



PACIFIC RIDGE RESOURCES CORP.	
RON 1,2 CLAIM PROPOSED GRID 1982 Omineca Mining Division, B.C.	
Date: Nov. 1981	Scale 1:10,000
Drawn by: G.H.	Ref: Fig. 4
SAWYER CONSULTANTS INC.	FIGURE No. 6



PACIFIC RIDGE RESOURCES CORP.	
RON 3, 4, 5, 6 CLAIMS PROPOSED GRID 1982 Omineca Mining Division, B.C.	
Date: Nov. 1981	Scale 1:10,000
Drawn by: G.H.	Ref: Fig. 5
SAWYER CONSULTANTS INC.	FIGURE No. 7

8 days will continue to search for high grade float in Ron 4, 5, and 6 claims following a camp move to Kemess Creek. This will also allow for completion of geochemical analyses on samples from Ron 1 and 2, and Ron 3 for possible follow-up in Phase II.

Phase II

A second phase program of detailed fill-in geochemistry and trenching, including cat trenching, will depend on results of Phase I. Cross country cat access to the properties from McConnell Creek is expected to be good and the effectiveness of hand trenching in areas of heavy overburden minimal.

It is estimated that 200 hours of cat work, 500 gallons of fuel and associated camp costs with supervision will be required. An estimated expenditure of at least $50,000 should be anticipated and allowed for prior to mobilization. Detailed budget and schedule will be prepared after Phase I.

Cost estimates for Phase I on both Ron 1 and 2, and 3, 4, 5 and 6 are summarized below.

A proposed schedule for the completion of Phase I follows in Table 3.

Cost Estimates

Mobilization/Demobilization			
Air fares - Vancouver-Smithers return x 7		$1,648	
Helicopter - 12 hours @ $475.00/hour		5,700	
Fixed wing - 400 miles @ $1.75/mile		700	
Freight		250	
		$8,298	$ 8,298
Field Work			
Ron 1 and 2			
Personnel:			
1 Geologist - 8 days @ $250.00/day	$2,000		
2 Assistants - 8 days @ $300.00/day	2,400		
Consultant - 3 days @ $350.00/day	1,050		
	$5,450	$5,450	
Camp:			
Infrastructure - 8 days @ $50.00/day	$ 400		
Supplies - 27 days @ $25.00/day	675		
Radio	150		
	$1,225	1,225	
Laboratory:			
Geochem - 246 samples @ $6.65/sample (Cu, Au, Ag)	$1,636		
Assay - 25 samples @ $17.00/sample	425		
	$2,061	2,061	
		$8,736	8,736
Ron 3 (4, 5 and 6)			
Personnel:			
1 Geologist - 19 days @ $250.00/day	$ 4,750		
2 Assistants - 19 days @ $300.00/day	5,700		
Consultant - 5 days @ $350.00/day	1,750		
	$12,200	$12,200	
Camp:			
Infrastructure - 19 days @ $50.00/day	$ 950		
Supplies - 62 man days @ $25.00/day	1,550		
Radio	150		
	$2,650	$2,650	
Carried Forward		$14,850	$17,034

Brought Forward		$14,850	$17,034
Laboratory:			
Grid -			
Geochemical - 290 samples @ $6.65/sample (Cu, Au, Ag)	$1,929		
Assay - 50 samples @ $17.00/sample	850		
Reconnaissance -			
Geochemical - 100 samples @ $6.65/sample	665		
Assays - 50 samples @ $17.00/sample	850		
	$4,294	4,294	
		$19,144	19,144
Reporting:			
Consulting - 10 days @ $350.00/day		$3,500	
Report costs		2,000	
		$5,500	5,500
			$41,678
Contingency @ 10%			4,150
			Say $45,900

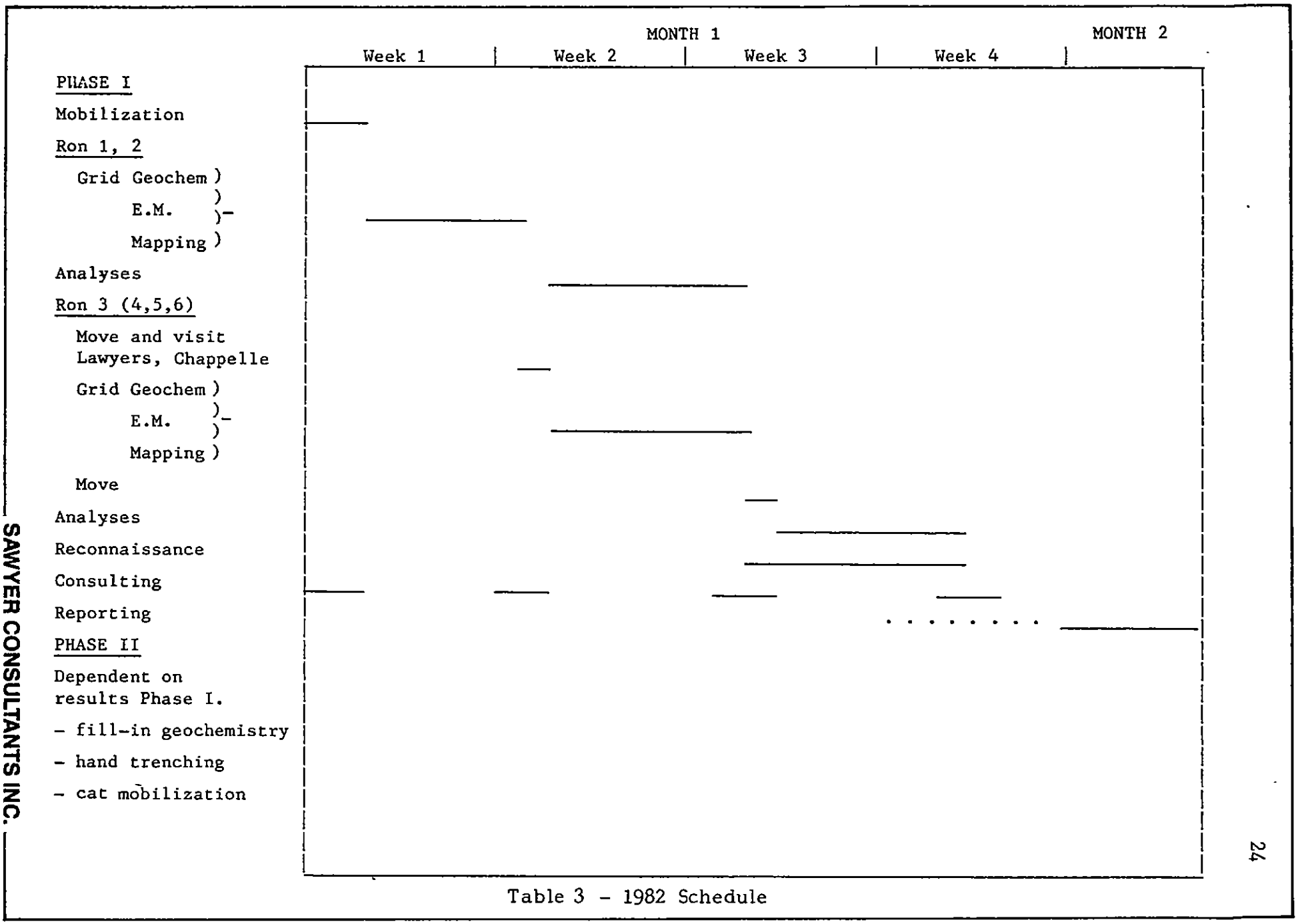


Table 3 - 1982 Schedule

CONCLUSIONS

(1) The Ron 1 and 2 claims lie within a favourable environment for Chappelle gold-silver type mineralization.

(2) The Ron 3 (4, 5, and 6) claims lie within a favourable environment for Chappelle gold-silver and New Kemess copper-gold type mineralization.

(3) Both Ron claim areas appear to be along the same mineral trend as the Laywer's/Chappelle/New Kemess prospect.

(4) Mineralization discovered on Ron 1 and 2 is hosted in similar Takla rocks and displays similar surface chemistry as do the Chappelle vein systems.

(5) Mineralization discovered in the Ron 3 claim display potential for both low grade gold-copper mineralization and high grade vein gold-silver mineralization.

(6) Due to heavy overburden cover on both Ron 1 and 2, and Ron 3 (4, 5, and 6) future work should be indirect prospecting methods. Targets for further delineation should primarily be quartz vein, breccia fault zones in volcanics displaying high copper, gold and silver chemistry and coincident E.M.

RECOMMENDATIONS

(1) Due to the similarity with neighbouring Chappelle, Lawyer's and New Kemess mineralization it is recommended that exploration efforts on Ron claims should be designed around the documented histories of the discoveries of these deposits and occurrences. Full understanding of the genesis and exploration of these types of mineralization would be best served by visits to the Chappelle and Lawyer's mine sites.

(2) Six kilometres of detailed grid geochemistry and VLF-EM in conjunction with detailed float and outcrop mapping is recommended for Ron 1 and 2 at an estimated cost of $8,736.00 to be spent over a period of 8 days.

(3) 7.2 kilometres of detailed grid geochemistry and VLF-EM in conjunction with detailed float and outcrop mapping is recommended for Ron 3, and continued geochemical and geological reconnaissance on Ron 4, 5, and 6 is recommended at an estimated cost of $19,144.00 to be spent over a period of 16 days.

(4) Recommendations on all interpreted results will initially be based on high copper-gold-silver soil anomalies, coincident EM conductors and favourable alteration in host rocks with visible mineralization.

(5) A second phase of exploration is recommended to include surface hand trenching and cat trenching in areas that prove to be anomalous in Phase I.

(6) The total expenditure for Phase I including mobilization/ demobilization and reporting is estimated at $45,900.00.

Respectfully submitted,

SAWYER CONSULTANTS INC.

T. Greg Hawkins, F.G.A.C.

CERTIFICATE

I, T.E. Gregory Hawkins, DO HEREBY CERTIFY:

(1) That I am a Consulting Geologist, of Sawyer Consultants Inc., with business offices at 1201 - 675 West Hastings St., Vancouver, British Columbia, V6B 1N2.

(2) That I am a graduate in geology of The University of Alberta, Edmonton (B.Sc. 1973), and of McGill University, Montreal (M.Sc. 1979).

(3) That I have practised within the geological profession for the past twelve years.

(4) That I am a Fellow of the Geological Association of Canada.

(5) That the information and opinions contained in the attached report are based on personal observations made on September 10th, 1981, on work completed by Mr. Yacoub from September 2nd to September 20th, 1981, and on general research on the area.

(6) That I own no interest in the shares or securities of Pacific Ridge Resources Corporation or the subject property, nor do I expect to receive any interest.

T. Greg Hawkins, F.G.A.C.

Dated at Vancouver, British Columbia, this 28th day of January, 1982.

CERTIFICATE

I, Fayz F. Yacoub, do hereby certify:

(1) That I am a graduate in Geology and Chemistry of Assuit University, Egypt (B.Sc. 1967), and Mining Exploration Geology of the International Institute for Aerial Survey and Earth Sciences (I.T.C.), Holland (Diploma 1978).

(2) That I have practised within the geological profession for the past eight years.

(3) That the information, opinions and recommendations in the attached report are based on personal observations on the Ron Claims, Thutade Lake, property in the period September 1st to September 22nd, 1981, and from general reference material.

(4) That I own no interest in the shares or securities of Pacific Ridge Resources Corporation or the subject property nor do I expect to receive any such interest.

F. Yacoub

Fayz F. Yacoub

Dated at Vancouver, British Columbia this 13th day of November, 1981.

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APPENDIX I

Certificates of Assay

and

Sampling Summaries - Tables I-1 and I-2

To:

Sawyer Consultants Inc.

12C¹ - 675 W. Hastings Street

Vancouver, B.C.

V6B 1N2

Attention: Mr. Greg Hawkins

can test ltd.
1650 PANDORA STREET, VANCOUVER, B.C. V5L 1L6
Tele[illegible] 254-7278
Telex 04-54210

RECEIVED OCT 5 1981

Certificate of Assay

Pacific Ridge - Ron

File No. 3509E-6

Date Sept. 29/81

We hereby Certify that the following are the results of assays made by us upon submitted ore samples.

Sample Identification	GOLD Ounces Per Ton	SILVER Ounces Per Ton	COPPER Percent Cu	LEAD Percent Pb	ZINC Percent Zn			
						Percent	Percent	Percent
56151	0.005	0.02	-	-	-			
56152	0.002	0.02	L 0.01	-	-			
56153	0.002	0.04	-	-	-			
56154	0.005	0.34	1.20	0.20	0.52			
56155	0.004	0.04	-	-	-			
56156	L 0.002	0.02	-	-	-			
56157	0.006	0.04	-	-	-			
56158	0.002	0.08	0.16	-	-			
56159	0.048	0.07	-	-	-			
56160	0.004	0.06	-	-	-			
56161	0.002	0.02	-	-	-			
56162	0.002	0.04	-	-	-			
56163	0.003	0.06	-	-	-			
56164	0.002	0.02	-	-	-			
56165	0.002	0.02	-	-	-			
56166	0.002	0.02	-	-	-			
56167	0.003	0.02	-	-	-			
56168	0.010	0.13	-	-	-			

L = Less than

Note: Pulps retained three months.

Rejects retained two weeks.

Form No. 13-C

CAN TEST LTD.

Provincial Assayer

APPENDIX I

To: Saw[illegible]f Consultants

REPORT NO. A21[illegible]1426

PAGE No. 1

DATE: October 9, 1981

BONDAR-CLEGG & COMPANY LTD.

1201- 675 West Hastings Street
VANCOUVER, B.C. V6B 1N2

CERTIFICATE OF ASSAY

RECEIVED OCT 1 4 1981

Samples submitted: September 21, 1981
Results completed: October 9, 1981

PROJECT: PRR RON

I hereby certify that the following are the results of assays made by us upon the herein described rock samples.

MARKED	GOLD		SILVER		Cu	Pb	Zn					
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
56126	<0.002		0.11		0.20	0.04	0.08					
56127	0.002		0.29		0.54	<0.01	<0.01					
56128	<0.002		0.18		0.10	<0.01	<0.01					
56129	<0.002		0.03		0.01	<0.01	0.01					
56130	<0.002		0.03		<0.01	0.01	0.01					
56131	<0.002		0.03		<0.01	0.02	<0.01					
56132	0.002		1.46		0.42	2.67	4.80					
56133	<0.002		0.11		<0.01	1.00	0.98					
56134	<0.002		0.04		<0.01	0.27	0.39					
56135	<0.002		0.15		<0.01	0.73	0.87					
56136	<0.002		0.03		<0.01	0.48	0.75					
56137	0.002		0.35		0.11	1.25	2.94					
56138	0.002		0.63		0.67	0.34	1.31					
56139	<0.002		0.10		<0.01	0.01	0.13					
56140	<0.002		0.04		0.01	<0.01	0.28					
56141	<0.002		0.03		0.01	<0.01	<0.01					
56142	<0.002		0.02		0.02	<0.01	<0.01					
56143	<0.002		0.27		<0.01	1.48	2.12					
56144	<0.002		0.08		0.01	0.09	0.10					
56145	<0.002		0.03		0.11	<0.01	0.01					
56146	<0.002		0.06		0.15	<0.01	0.01					
56147	<0.002		0.02		<0.01	<0.01	0.01					
56148	0.020		1.12		0.82	0.09	0.06					
56149	<0.002		0.26		0.18	<0.01	0.02					
56150	<0.002		0.02		<0.01	<0.01	<0.01					

NOTE:
Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

R. K. Logan
Registered Assayer, Province of British Columbia

APPENDIX 1

Table 1-1 - RON 1 and 2 SAMPLING SUMMARY

Sample No.	Description	ASSAY Au oz./ton	Ag oz./ton	Cu %	Pb %	Zn %
56126	Showing No. 1, chip sample taken from Cu showing in a small trench over 5 m. of volcanics with Py and Cu.	L0.002	0.11	0.20	0.04	0.08
56127	Showing No. 1, chip sample taken from Cu showing over 5 m. in small trench 5 m. from 56126.	0.002	0.29	0.54	L0.01	L0.01
56128	Showing No. 1, 3 m., chip sample taken from trench 200 m. north of 56127, Py, Cu.	L0.002	0.18	0.10	L0.01	L0.01
56129	5 m. chip sample of mineralized volcanics, Py, Cu, Showing No. 2.	L0.002	0.03	0.01	L0.01	0.01
56130	Showing No. 1, chip sample over 3 m., highly altered rusty volcanics in creek, Py, some limonite.	L0.002	0.03	L0.01	0.01	0.01
56131	Showing No. 2, chip sample in creek over 3 m. of rusty Py volcanics.	L0.002	0.03	L0.01	0.02	L0.01
56132	Showing No. 3, 5 m. chip sample of green skarn, heavy Pb, Zn, Py, Cu.	0.002	1.46	0.42	2.67	4.80
56133	Showing No. 3, chip sample Pb, Py skarn over 1 m.	L0.002	0.11	L0.01	1.00	0.98
56134	Showing No. 3, altered silicified skarn with Pb and Py over 1 m.	L0.002	0.04	L0.01	0.27	0.39
56135	Showing No. 3, over 0.7 m. of skarn.	L0.002	0.15	L0.01	0.73	0.87
56136	Showing No. 4, chip across 5 m. from shear zone in limestone.	L0.002	0.03	L0.01	0.48	0.75
56137	Showing No. 4, 2 m. chip sample of rusty skarn with Py, Pbs, Cu.	0.002	0.35	0.11	1.25	2.94
56138	Showing No. 4, chip over 2 m. of Py, Pbs, Cpy.	0.002	0.63	0.67	0.34	1.31
56139	Showing No. 4, chip sample over 3 m. of sheared rusty zone, sparse sulphides.	L0.002	0.10	L0.01	0.01	0.13
56140	Showing No. 4, chip across 3 m. in rusty volcanics, minor sulphides.	L0.002	0.04	0.01	L0.01	0.28

Table 1-1 - RON 1 and 2 SAMPLING SUMMARY

Sample No.	Description	ASSAY Au oz./ton	Ag oz./ton	Cu %	Pb %	Zn %
56141	Near Showing No. 4, chip sample over 1 m. of volcanics with disseminated Py.	L0.002	0.03	0.01	L0.01	L0.01
56142	Showing No. 4, 3 m. chip sample volcanics with disseminated Py.	L0.002	0.02	0.02	L0.01	L0.01
56143	Showing No. 4, 2 m. chip sample highly altered volcanics with heavy disseminated Py, Pb, 15 m. west of 56137.	L0.002	0.27	L0.01	1.48	2.12
56144	Showing No. 2, 2.5 m. chip sample highly sheared rusty volcanics, disseminated Pbs, Py.	L0.002	0.08	0.01	0.09	0.10
56145	Showing No. 1, 3 m. chip sample of altered volcanics with malachite and Py.	L0.002	0.03	0.11	L0.01	0.01
56146	Ron 2 grab sample over 1 m. of andesite porphyry with disseminated Py, 180 m. east of lake.	L0.002	0.06	0.15	L0.01	0.01
56147	Ron 2 grab sample over 1 m. of andesite porphyry 200 m. east, 95 m. south of camp.	L0.002	0.02	L0.01	L0.01	0.01
56148	Ron 2, chip sample massive sulphides in silicified volcanics, Py, Pb, Cu, Zn, over 2.5 m., 600 m. south of L.C.P.	0.020	1.12	0.82	0.09	0.06
56149	Ron 2, 2.5 m. chip sample of silicified volcanics with Py, Cu, 600 m. south of camp, 20 m. east of lake.	L0.002	0.26	0.18	L0.01	0.02

L = less than.

Table 1-2 - RON 3, 4, 5, and 6 SAMPLING SUMMARY

Sample No.	Description	ASSAY Au oz./ton	Ag oz./ton	Cu %	Pb %	Zn %
56150	Float from Ron 3, 200 m. east of lake. Quartz vein with minor pyrite.	L0.002	0.02	L0.01	L0.01	L0.01
56151	Grab sample of pyritic volcanics.	0.005	0.02	-	-	-
56152	Grab sample of altered Ron 3 volcanics with malachite (float) Ron 3.	0.002	0.02	L0.01	-	-
56153	Grab sample Ron 3, rich in Py and Cpy (float).	0.002	0.04	-	-	-
56154	Grab sample of quartz vein float with Py, Cpy, Pbs, and malachite (float) Ron 3.	0.005	0.34	1.20	0.20	0.52
56155	Grab sample of quartz float Ron 3.	0.004	0.04	-	-	-
56156	Grab sample of quartz float Ron 3.	L0.002	0.02	-	-	-
56157	Grab sample of silicified pyritic dyke Ron 3.	0.006	0.04	-	-	-
56158	Grab sample of quartz float with disseminated Py Ron 3.	0.002	0.08	0.16	-	-
56159	Grab sample quartz float Ron 3.	0.048	0.07	-	-	-
56160	Grab sample quartz float with Py.	0.004	0.06	-	-	-
56161	Grab sample pyritic volcanic float Ron 3.	0.002	0.02	-	-	-
56162	Chip sample over 2.5 m. of quartz vein float train near dykes Ron 3.	0.002	0.04	-	-	-
56163	Chip sample over 0.4 m. of exposed quartz vein as in 56162 Ron 3.	0.003	0.06	-	-	-
56164	Chip sample across 0.4 m. of pyritic dyke 10 m. east of 56163 Ron 3.	0.002	0.02	-	-	-
56165	Chip sample across 0.4 m. of pyritic quartz vein, strike NNE, Dip 75°NW, 20 m. south of 56164 Ron 3.	0.002	0.02	-	-	-
56166	0.15 m. chip sample of pyritic silicified zone, SW of 56164.	0.002	0.02	-	-	-
56167	1 m. chip sample, silicified pyritic acid dyke, strike 100°, dip 50°N, 100 m. NW of 56164.	0.003	0.02	-	-	-
56168	0.25 m. chip sample of N-striking quartz vein, 100 m. S. of 56162.	0.010	0.13	-	-	-

L = less than.

APPENDIX 1

SAWYER CONSULTANTS INC.

APPENDIX III

Statement of Expenditures and List of Personnel

for Assessment Purposes

STATEMENT OF EXPENDITURES

The expenditures shown below were made by Pacific Ridge Resources Corporation in connection with the exploration program carried out on the Ron 1-6 Claims, Omineca Mining Division, British Columbia, during the period September 1st, 1981 to February 28th, 1982.

Field Work - September 1st to September 30th, 1981.

Personnel - Geological, Geochemical, Reconnaissance

1 Consultant - 4½ days @ $300.00/day 5 hours @ $60.00/hour	$ 1,650.00	
1 Geologist - 25 days @ $175.00/day	4,375.00	
1 Assistant - 22 days @ $150.00/day	3,300.00	
1 Expeditor - 3 days @ $225.00/day	675.00	
	$10,000.00	$10,000.00

Camp Costs, Infrastructure

22 days @ $50.00/day	$1,100.00	
Supplies	666.26	
Radio	400.00	
	$2,166.26	2,166.26

Sample Analyses	1,057.50

Transportation

Air fares - Vancouver-Smithers return 4 @ $220.30	$ 881.20	
Rentals and Fuel (car, truck, taxi)	218.60	
Fixed Wing and Helicopter	4,306.30	
	$5,406.10	5,406.10

Freight	221.45
Additional Mobilization/Demobilization costs including Telephone, Maps, Hotel, Food, Dispatch, Disbursements charge	478.15
Sub Total (carried forward)	$19,329.46

Statement of Expenditures (continued)

Brought forward		$19,329.46
Office Work - October 1st, 1981 to February 28th, 1982.		
Report Costs		
1 Consultant - 2½ days @ $300.00		
12 hours @ $60.00/hour	$1,470.00	
½ day @ $350.00/day	175.00	
1 Geologist - 2 days @ $175.00/day	350.00	
	$1,995.00	1,995.00
Drafting, Typing, Printing		867.53
Other - Disbursement charge, Maps, Telephone		243.17
TOTAL EXPENDITURES		$22,435.16
Divided 1/3 - Ron 1, Ron 2 (Thutade Group)		$7,478.39
2/3 - Ron 3, Ron 4, Ron 5, Ron 6 (Kemess Group)		$14,956.77

H.L. Williams, President,
Pacific Ridge Resources Corp.
#1103 - 675 W. Hastings St.
Vancouver, B.C. V6B 1N2

APPENDIX III

LIST OF PERSONNEL

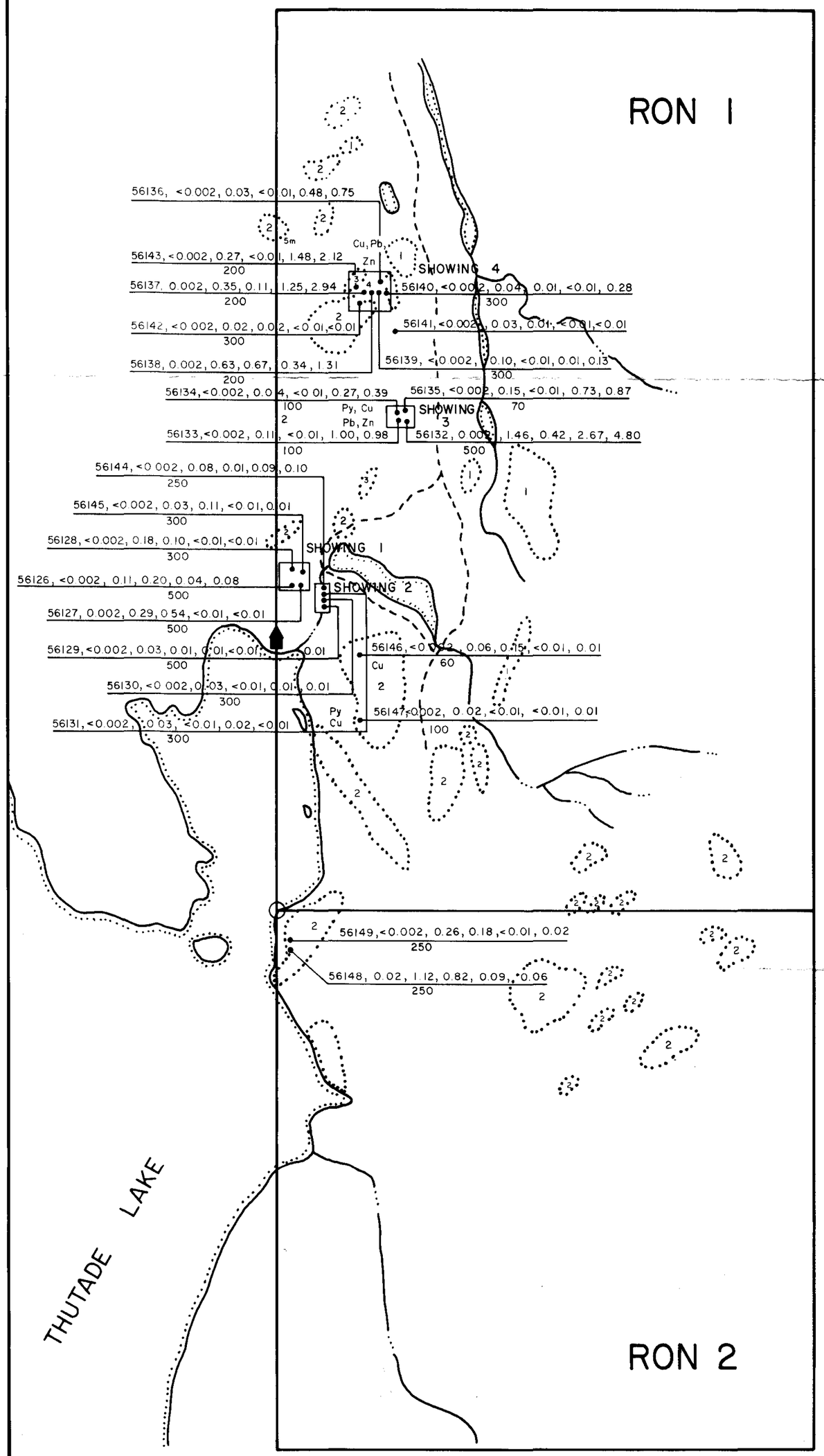
Sawyer Consultants Inc.

1 Consultant - T. Greg Hawkins, F.G.A.C.		
September 1st, 1981 to January 28th, 1982		
7 days @ $300.00/day	$2,100.00	
½ day @ $350.00/day	175.00	
17 hours @ $60.00/hour	1,020.00	
	$3,295.00	$ 3,295.00
1 Geologist - F. Yacoub, B.Sc.		
September 1st to September 25th, 1981		
25 days @ $175.00/day	$4,375.00	
October 1st and October 2nd, 1981		
2 days @ $175.00/day	350.00	
	$4,725.00	4,725.00

Ashworth Explorations Ltd.

1 Expeditor - Clive Ashworth		
September 1st to September 3rd, 1981		
3 days @ $225.00/day	$ 675.00	
1 Field Assistant - John McKinley		
September 1st to September 22nd, 1981		
22 days @ $150.00/day	3,300.00	
	$3,975.00	3,975.00
		$11,995.00

H.L. Williams, President,
Pacific Ridge Resources Corp.
#1103 - 675 W. Hastings St.
Vancouver, B.C. V6B 1N2



LEGEND

3	LIMESTONE
2	ANDESITE VOLCANIC, ANDESITE PORPHYRY
1	QUARTZ MONZONITE
	AREA OF MINERALIZATION
	AREA OF 50% OUTCROP
	BEDDING STRIKE, DIP
Py	PYRITE
Cu	CHALCOPYRITE, COPPER STAINING
Pb	GALENA
Zn	SPHALERITE
⊙	L.C.P.
	CAMP LOCATION

56132, 0.002, 1.46, 0.42, 2.67, 4.80
SAMPLE LOCATION 500 =

SAMPLE No., Au oz/t, Ag oz/t, Cu %, Pb %, Zn %
SAMPLE WIDTH IN cm.

200 100 0 200 METRES
Scale 1:10,000

10,161

To accompany report by
T. Greg Hawkins, F.G.A.C.,
dated November 13, 1981.

PACIFIC RIDGE RESOURCES CORP.

RON 1 & 2 CLAIMS
THUTADE LAKE AREA
OMINECA MINING DIVISION, B. C.
GEOLOGY & SAMPLE LOCATION MAP
GEOLOGY BY F. YACOUB

Date: Nov., 1981	Scale: 1:10,000
Drawn by: C. L. C.	Ref: QUEBEC CARTIER
SAWYER CONSULTANTS INC.	Figure No. 4


Kemes
Creek
N
10,161
56151, 0.005, 0.02, ___, ___, ___
56153, 0.002, 0.04, ___, ___, ___
56161, 0.002, 0.02, ___, ___, ___
56152, 0.002, 0.02, <0.01, ___, ___
Q F
Py, Cu
Py Cu
56159, 0.048, 0.07, ___, ___, ___
56160, 0.004, 0.06, ___, ___, ___
56150, <0.002, 0.02, <0.01, <0.01, <0.01
56158, 0.002, 0.08, 0.16, ___, ___
Cu, Pb
Cu, Py
Cu
56162, 0.002, 0.04, ___, ___, ___
56167, 0.003, 0.02, ___, ___, ___
56164, 0.002, 0.02, ___, ___, ___
56154, 0.005, 0.34, 1.20, 0.20, 0.52
56157, 0.006, 0.04, ___, ___, ___
Py
56165, 0.002, 0.02, ___, ___, ___
56163, 0.003, 0.06, ___, ___, ___
56168, 0.01, 0.13, ___, ___, ___
56166, 0.002, 0.02, ___, ___, ___
56155, 0.004, 0.04, ___, ___, ___
56156, <0.002, 0.02, ___, ___, ___
RON 3
RON 4
RON 5
RON 6
NO OUTCROP
NO OUTCROP
NO OUTCROP
LEGEND
AREA OF 50% OUTCROP, ANDESITE VOLCANIC
AREA OF FLOAT — ANDESITIC VOLCANICS AND QUARTZ BOULDERS
AREA OF MINERALIZATION
SWAMP AREA
PYRITIFEROUS DACITE DYKE
PROBABLE QUARTZ VEIN, OR ZONE OF QUARTZ FLOAT
TRAVERSE LINE
SYMBOLS
Py PYRITE
Cu CHALCOPYRITE, COPPER STAINING
Pb GALENA
Zn SPHALERITE
CAMP LOCATION
56164, 0.002, 0.02, ___, ___, ___
SAMPLE LOCATION
SAMPLE No. Au oz/t, Ag oz/t, Cu %, Pb %, Zn %
SAMPLE WIDTH IN cm.
0 100 200 300 400 500 1000
Scale 1:10,000
PACIFIC RIDGE RESOURCES CORP.
RON 3, 4, 5, 6 CLAIMS
THUTADE LAKE AREA
OMINECA MINING DIVISION, B. C.
GEOLOGY & SAMPLE LOCATION MAP
GEOLOGY BY: F. YACOUB
Date: Nov., 1981
Scale: 1:10,000
Drawn by: C. L. C.
Ref:
SAWYER CONSULTANTS INC.
Figure No. 5
To accompany report by T. Greg Hawkins, F.G.A.C., dated November 13, 1981.