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A GEOLOGICAL AND GEOCHEMICAL REPORT  
ON THE  
APRIL CLAIM GROUP

GREENWOOD MINING DIVISION  
BRITISH COLUMBIA

LATITUDE 49° 04' N  
LONGITUDE 118° 32' W

N.T.S.  
82E/2E

For  
BANQWEST RESOURCES LIMITED

By  
G.H. RAYNER, P. ENG.  
G.H. RAYNER AND ASSOCIATES LTD.

WEST VANCOUVER, B.C.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,038

OCTOBER 12, 1984

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### SUMMARY AND CONCLUSIONS

The April Claim Group in the Phoenix Mining District is underlain by a complex assemblage of rock units including the units in which ore deposits have been previously discovered elsewhere in the district.

Although portions of the property have been explored by various means in past years, there remains good potential, particularly in the northern part of the claims, to discover economic gold-copper mineralization.

In particular, the covered areas in the Skeff Creek watershed which have returned anomalous gold geochemical results warrant further investigation.

### INTRODUCTION

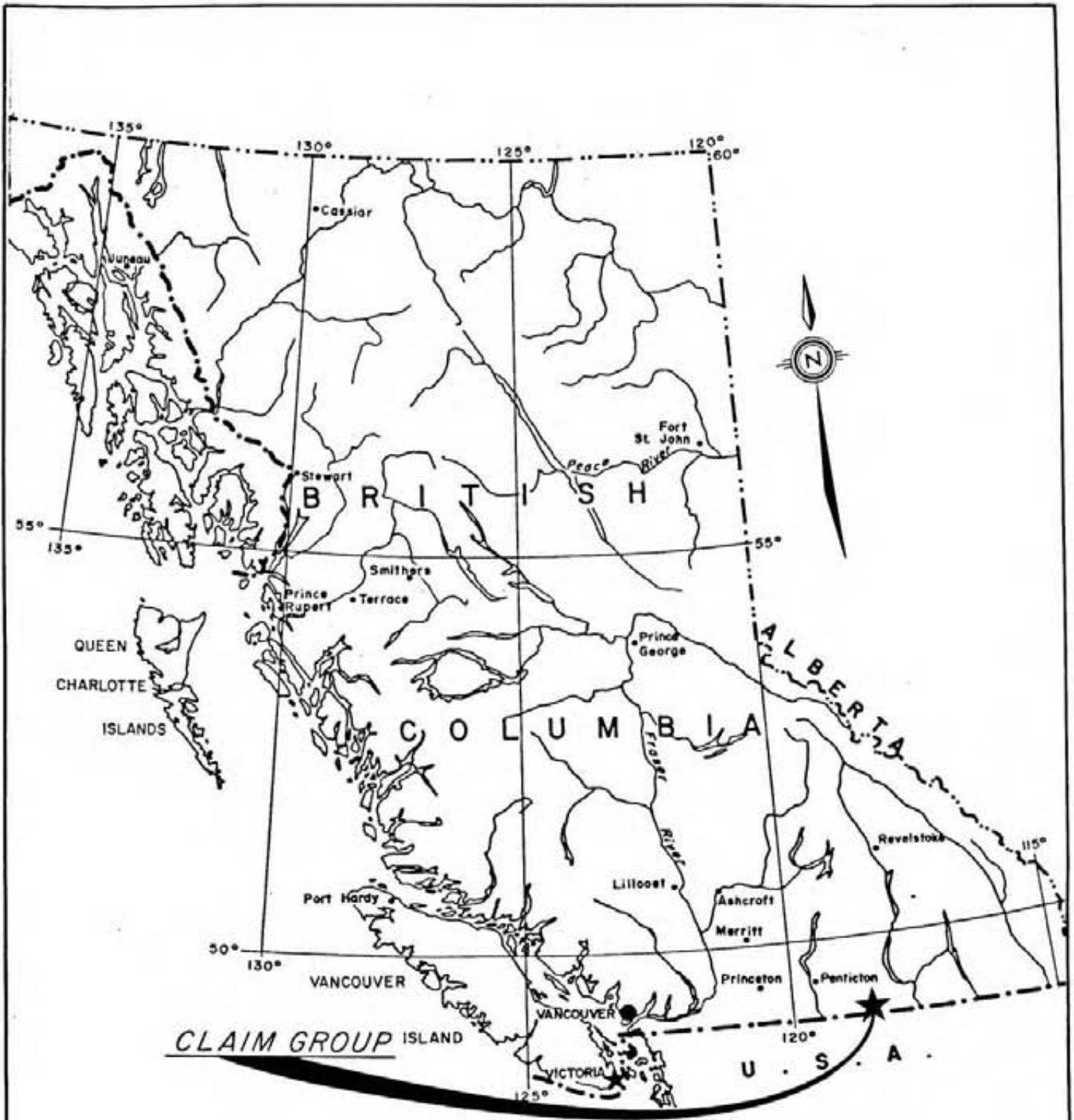
At the request of Mr. David Mercier of Banqwest Resources Limited, the author carried out a detailed geological mapping program over a portion of the April Claim Group between the 11th and 18th of May, 1984.

The property lies on the eastern edge of the Phoenix-Greenwood mining area in the Greenwood Mining Division, a district which is receiving considerable recent attention in the search for vulcanogenic gold-copper deposits.

### LOCATION AND ACCESS

The April property is located in South-central British Columbia about 7 km north of the International Boundary and 7 km west of the town of Grand Forks.

The mining centre of Greenwood lies about 10 km to the northwest of the property and the now-closed Phoenix copper-gold open pit operation lies 3 km to the north west.



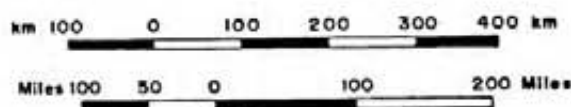
CLAIM GROUP ISLAND

BANQUEST RESOURCES LTD.

APRIL CLAIM GROUP  
GREENWOOD MINING DIVISION, B.C.

LOCATION MAP

G. H. RAYNER



N.T.S. 82 E/2	SCALE: AS SHOWN	FIG.
DATE: OCT., 1984	DRAWN: D.W.	I

Access to the claims is relatively easy. The Southern Transprovincial Highway (Highway #3) crosses the eastern part of the property. Other parts of the ground are easily reached from various mining and logging access roads in varying condition.

Topography in the area is quite subdued and walking access in most areas is relatively easy. Local areas of dense bush are found in some logged-over sections.

Most services are available either in Greenwood or Grand Forks. Grand Forks is, in addition, served by the Canadian Pacific Railway (Freight service only).

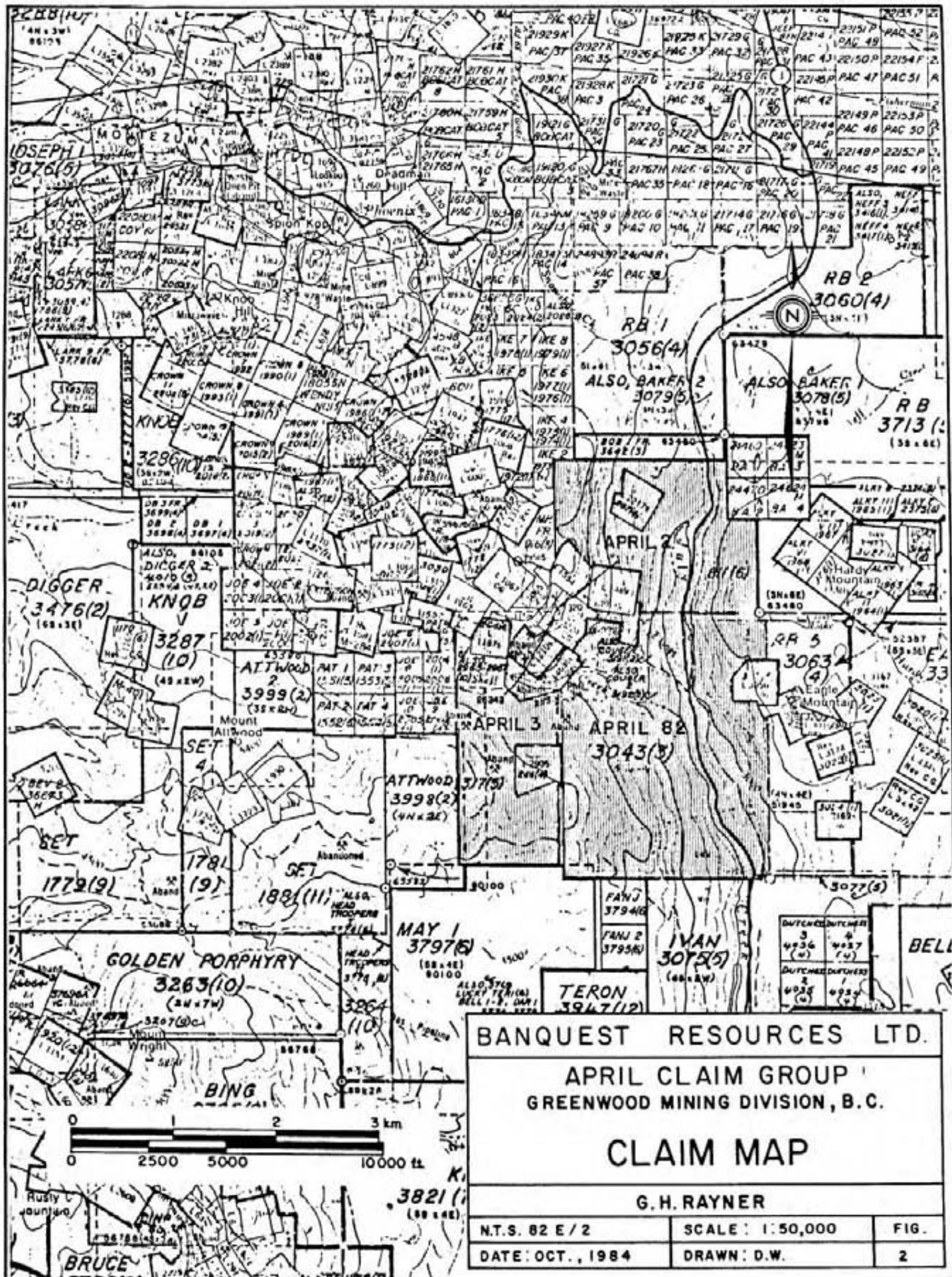
#### PROPERTY AND OWNERSHIP

The property consists of 5 reverted Crown Granted claims and 3 claims totalling 42 units which are held by location.

All the claims lie in the Greenwood Mining Division and are held under agreement in the name of Banqwest Resources Ltd.

The pertinent details are tabulated as follows:

<u>CLAIM NAME</u>	<u>REG. NO.</u>	<u>UNITS</u>	<u>EXPIRY DATE</u>
April 2	811(6)	12	June 17, 1984
April 3	317(5)	10	May 20, 1984
April 82	3043(3)	20	March 24, 1985
Tripod (L.1463S)	263(4)	1	April 22, 1985
Florence (L.1187S)	264(4)	1	"
Windfall (L.1210S)	265(4)	1	"
Jim (L.2905)	266(4)	1	"
May (L.2217S)	267(4)	1	"



**BANQUEST RESOURCES LTD.**  
**APRIL CLAIM GROUP**  
**GREENWOOD MINING DIVISION, B. C.**  
  
**CLAIM MAP**  
  
**G. H. RAYNER**  

N.T.S. 82 E / 2	SCALE: 1:50,000	FIG.
DATE: OCT., 1984	DRAWN: D.W.	2



In addition, the adjoining April 4 claim has recently been staked for the company, however, this ground has not been covered by the present report.

#### HISTORY AND PREVIOUS WORK

The mining history of the Phoenix-Greenwood district dates back to the early 1890's when many of the presently known properties were discovered. The Granby Consolidated Mining, Smelting and Power Company had consolidated control of the more important producers by 1900. Production continued through to 1919 with smelters operating at various times at Grand Forks, Greenwood and Boundary Falls.

At the end of World War I, the demand for metals dropped and activity in the district declined. In 1919, a labour strike in the Crowsnest Pass coal mines cut off coal supplies to the smelters forcing their closure and effectively ending mining activity in the district.

Except for minor gold interest during the 1930's and modest copper-gold shipments from time to time, this state of affairs continued until 1955. In 1955, Granby re-opened the Phoenix Mine as an open pit operation and continued production until 1978.

In total, the district has produced in excess of 35,000,000 tons of ore through its history to date.

There is no recorded production from the area now included in the April Group. However, the Athelstan-Jackpot property, immediately to the north of the April ground has produced a total of 36,614 tons ore containing 15,965 pounds of copper, 5,781 ounces of gold and 6,757 ounces of silver. The gold content of this ore works out to 0.157 ounces per ton, significantly higher than the average for the district.

The earliest recorded work on what is now the April Group dates from 1904 although the area, like the rest of the district, must have been closely prospected during the previous decade.

In subsequent years, from time to time work has been carried out on the ground with the main emphasis on copper values in shatter areas and bedded zones of skarn and massive sulphides. The most recent programs, under Banqwest Resources Ltd., have been restricted to the central part of the claim group. This work has included geological mapping, electromagnetic and magnetometer surveys and soils geochemistry run for copper and arsenic.

The work covered by the present report adds gold geochemistry and completes the geological mapping of the property.

#### REGIONAL GEOLOGY AND MINERALIZATION

Regionally the area is underlain by a complex assemblage of rocks ranging in age from Precambrian through to Recent.

The district geology has been closely studied over the years because of the importance of mineral production from the area. Many Group and Formation names from this earlier work are now fading out of use. The most recent classification is that of Little (1983) and is shown in Figure III. This system will be followed in the present report.

Pre-Carboniferous rocks in the district include various metamorphic units consisting dominantly of schist, greenstone, chert and gneiss. In the south-central part of the district these rocks are well represented but are generally absent elsewhere except for an east-west trending northern belt passing through Jewel Lake.

Precious metal vein deposits in these rocks have received attention over the years particularly in the Jewel Lake area. None of these rocks are known on the April Group.



TABLE OF FORMATIONS

ERA	PERIOD OR EPOCH	GROUP OR FORMATION	MAP UNIT SYMBOL	LITHOLOGY	THICKNESS (metres)	
CENOZOIC	PLEISTOCENE AND RECENT			Till, sand, gravel, silt		
	EOCENE Middle	Klondike Mountain Formation	EkM	Heterogeneous epiclastic breccia of pre-Permian to Middle Eocene rocks	900+	
		NON-EROSIONAL UNCONFORMITY WITH MARRON FORMATION				
		Coryell Intrusions	Ec	Syenite, quartz monzonite, minor granite and gabbro		
		Intrusive equivalents of Marron Formation	Emi	Alkaline syenite, syenite, diorite, and diorite porphyry		
		INTRUSIVE CONTACT				
		Marron Formation	Emv	Soda trachyte, andesite, trachyandesite, minor phonolite and tuff	1525±	
		Kettle River Formation	Ekrs	Feldspathic volcanic sandstone, lithic volcanic sandstone, shale, conglomerate	90 to 1200	
	UNCONFORMITY					
	MESOZOIC	CRETACEOUS OR TERTIARY	Map-unit KT1	KT1	Quartz-feldspar porphyry, quartz porphyry, felsite	
RELATIONSHIP UNKNOWN						
CRETACEOUS (?)		Valhalla Intrusions	Kvqm	Granite and quartz monzonite, mainly porphyritic, some pegmatite		
INTRUSIVE CONTACT						
JURASSIC AND/OR CRETACEOUS		Nelson Intrusions	JKgd	Granodiorite, minor quartz diorite and diorite		
INTRUSIVE CONTACT (?)						
JURASSIC (?)		Ultramafic intrusions	Jum	Peridotite, pyroxenite, dunite, serpentinite		
		INTRUSIVE CONTACT WITH MAP UNIT Jv (?)				
		Map-unit Js	Js	Siltstone, minor phyllite, sandstone, and conglomerate	300-	
		Map-unit Jph	Jph	Black phyllite	500-	
TRIASSIC	Upper	Map-unit UTsv	UTsv	White limestone, black limestone, grey, black, and buff shale, limestone breccia, purple to maroon agglomerate, minor green cherty argillite	330+	
		UNCONFORMITY				
	Middle	Brooklyn Formation	MTi	Limestone, containing some chert grains, skarn, minor chert and sharpstone conglomerate, siltstone, and shale	660	
			MTs	Sharpstone conglomerate with mainly chert clasts; local chert sandstone; minor black argillite and green argillite	760	
	Middle and (?) Lower	INTERBEDDED WITH RAWHIDE FORMATION; UNCONFORMABLE WITH KNOB HILL GROUP				
		Map-unit MTr	MTr	Black siltstone, minor black argillite and chert sharpstone conglomerate	120-	
PALEOZOIC	CARBONIFEROUS OR PERMIAN	Knob Hill Group	CPkh	Massive chert, greenstone, and amphibolite; minor limestone or marble; locally tan or black argillite, fine grained quartzite, conglomerate	?	
		Attwood Formation	CPa	Black to grey bedded argillite; locally some grey chert and cherty siltstone; minor chert sharpstone conglomerate; limestone with some thin chert interbeds	1000+	
	UNCONFORMITY (?)					
	PRE-CARBONIFEROUS (?)	Map-unit Pm	Pm	Quartz-chlorite schist, quartz-biotite-muscovite schist, greenstone, bedded chert with argillaceous partings; minor limestone or marble	?	
		RELATIONSHIPS UNKNOWN				
		Map-unit Pa	Pa	Amphibolite, minor greenstone, and bedded chert	?	
RELATIONSHIPS UNKNOWN						
PRECAMBRIAN		Map-unit Pm	Pm	Paragneiss, migmatite, some amphibolite with pegmatite or aplite	?	

After Little (1983)

Figure 3

The Attwood and the Knob Hill formations of Carboniferous or Permian Age occur next in the succession.

The Attwood Formation consists of an argillite member and a limestone member. The formation is found irregularly distributed across the southern part of the district from Mt. Attwood to July Creek. Although its areal extent is not great, it is of interest here since the limestone member appears from mapping by Little to extend into the western part of the April Claim Group.

The Knob Hill formation of similar age is composed mainly of massive chert, with greenstone and amphibolite. This unit is widely distributed through the Greenwood district and underlies a significant portion of the April Claims.

Elsewhere in the district the unit has been reported to have a relatively high background gold content.

Regionally, the next youngest unit is a Triassic sedimentary sequence known as the Brooklyn Formation. This is made up of a basal "sharpstone conglomerate" and an upper limestone section.

The sharpstone conglomerate is dominantly composed of angular chert fragments in which a rough bedding is often visible. The thickness of the unit is estimated to be as much as 750 m (Seraphim, 1956).

The sharpstone member is overlain with apparent conformity by the Brooklyn limestone. In much of the south eastern part of the district, including part of the April area, the limestone member is missing and the sharpstone conglomerate is overlain by flow breccia and greenstone of map unit Jv.

The limestone member consists largely of massive white to grey limestone. The horizon is of particular importance since it appears to host much of the syngenetic massive sulphide mineralization in the camp.

In some parts of the district the Brooklyn Formation is succeeded by an assemblage of limestone, shale and agglomerate mapped as map unit uTsv by Little . This unit occurs to the east of the April Group but does not extend into it.

These rocks are followed in time by a series of flow breccia and greenstone with minor limestone of Jurassic (?) Age which has been designated map unit Jv by Little. This unit is widely distributed in the south eastern portion of the district and is well represented on the April Claims.

Flow breccia is the most common lithology in the unit both on the April Claims and elsewhere. Thicknesses up to 350 meters are reported.

A variety of intrusive rocks cut all of the preceding formations during the Jurassic and Cretaceous. The earliest of these is a group of ultramafics of probable Jurassic Age including serpentines, gabbros and pyroxenites. These ultramafic rocks often show a spatial relationship with some of the mineral deposits of the district. The genetic connection, if any, is unclear.

Nelson Intrusives of Cretaceous Age are widely distributed in the northern part of the district. These intrusives are mainly granodiorite in composition. They occur as a variety of stocks and dykes.

The youngest rocks in the district are Tertiary Age flows and sediments. The oldest of these, the Kettle River Formation, is a sedimentary unit consisting dominantly of poorly sorted feldspathic sandstone and conglomerate. It forms a basal unit in the Tertiary section and contains clasts of various underlying rocks.

The youngest unit in the area is the Marron Formation. These extrusive beds are mainly intermediate in composition. Thicknesses up to 1800 meters are known; however, where the unit is seen in the April area, it is much thinner.

The mineral deposits of the district fall into three general groups. The largest production has come from the bulk copper-gold deposits of the Greenwood and Deadwood camps. These mineralized bodies are usually associated with extensive siliceous and calc-silicate zones within the Triassic units and the upper part of the Permian sequence. Historically, they have been generally considered to have originated as skarn replacements. Recent work in the district suggests that they may in fact be synvolcanic.

During the early productive period a second group of mines produced significant tonnages of copper-gold ore from strata-bound deposits from the same Permo-Triassic rocks. Some of the larger producers included the old Ironsides, Brooklyn and Stemwinder deposits. Several of these deposits are today being reviewed in the light of modern thinking as being possibly of volcanogenic origin. The new Sylvester K discovery would fall into this group, as would the bedded sulphides exposed in places on the April Group.

The third group of productive deposits in the district consists of fissure veins cutting both the Nelson Intrusives and the older rocks. Production from vein deposits consisted primarily of precious metal values. The Providence and the Dentonia vein systems have been the largest past producers of this type.

#### PROPERTY GEOLOGY AND MINERALIZATION

The 1984 mapping program completed geological coverage of the claims and surrounds a previously mapped core area. The following descriptions of the units and their relations proceed from the oldest to the youngest mapped units.

The Attwood Group is the oldest formation mapped on the property. The limestone member of this formation is shown by Little (1983) to underly a large area to the west of the April Claims in the general area of

Mt. Attwood itself. This belt of limestone extends into the April Claims and underlies an area of high ground in the southwest of the mapped area lying to the west of the old Phoenix-Lone Star haulroad.

As mapped on the claims, the Attwood Limestone is a massive, thick-bedded white to grey unit. No fossils were noted. The beds are cut by some minor faulting and occasional diorite dykes but in general show little disturbance. They are relatively flat lying with variable low dips.

The present mapping has followed the presentation of Little in relating these rocks to the Attwood Formation. However, immediately to the east, similar appearing Brooklyn limestone occurs clearly underlain by the diagnostic sharpstone conglomerate. No clear discontinuity between the two units was seen in the field and the suspicion remains that these limestones mapped as "Attwood" could be more comfortably placed in the Brooklyn. Resolution of this point will await further fieldwork.

Knob Hill sediments of Carboniferous or Permian Age outcrop in the valley of July Creek in the northeastern portion of the claim group. Although the unit is regionally mainly composed of chert, in this area it is dominantly greenstone with minor limestone. The greenstone is massive, chertic and contains some cherty areas that may be chert beds that have been complicated by later structural movement.

The Triassic Brooklyn Formation occurs in two widely separate areas in the present mapping. In the southwest portion of the claim group it is on the eastern section of the main ridge to the east of exposures mapped as Attwood Limestone. In this area, the Brooklyn consists of both the limestone member and of the underlying sharpstone conglomerate. Attitudes are not consistent from outcrop to outcrop reflecting substantial local limestone exposure. This area of Brooklyn rocks adjoins a larger area of similar rocks previously mapped to the north.



Brooklyn limestone was also mapped on the ridge east of July Creek on the eastern edge of the property. Here the limestone is a massive, white to grey cliff-forming unit. At two locations old workings are developed on thin (10-20 cm) pyritic seams in poorly exposed thin tuffaceous horizons in the limestone. Sampling in these workings suggest that no economic values are present.

The next youngest unit mapped is the largely volcanic Jurassic (?) member mapped by Little as his unit Jv. Regionally, this unit is mainly composed of greenstone and flow breccia. On the April property, the unit is well exposed in the valley of July Creek and along the roadcuts of the Number Three Highway. The southern exposures are mainly tuff and greenstone as is typical of the unit. The northern exposures are mainly lower in the section and consist largely of basal conglomerate with numerous limestone clasts. No mineralization was noted in the unit.

A large ultramafic intrusive unit is mapped along the western side of the northern tongue of the property. These rocks are part of a substantial body of gabbro and serpentine which extends some distance to the west off the property. This ultramafic unit adjoins the Athelstan Jackpot property on its north side and is believed by some to be genetically related to this deposit.

The details of the relations between this ultramafic unit and surrounding rocks are unclear. It is not certain if it is actually an intrusive body or represents serpentized basic flows. No light was shed on this question during the present mapping.

Although Cretaceous (Nelson) and Tertiary intrusives are well represented in the district, only a few dykes of diorite and diorite porphyry were noted in the areas mapped.

Tertiary flows cap an area on the main ridge along the southern border of the property. The flows were laid down on a very irregular land surface so that the thickness of tertiary material varies widely.



Regionally the tertiary flows are intermediate in composition however those seen in the southern part of the April Group are more basic and are probably basalts. Some of the thicker flows are quite coarse textured and in hand specimen are essentially a gabbro.

Mineralization of any sort was rarely noted in the field. The better mineralized areas of the property generally lie in the central area and have been mapped previously. The mineral occurrences that were noted consisted almost exclusively of thin pyritic bedded horizons lying within the Brooklyn Formation.

#### GOLD GEOCHEMISTRY

During the year, geochemical analyses were run for gold on 395 soil samples which were on hand but which had previously only been run for copper and arsenic. These samples cover a grid in the central part of the claim group and the results are presented in Fig. 5. For the copper and arsenic results the reader is referred to Hawkins (1982).

In evaluating the results, a level of 100 ppb or greater was regarded as anomalous since a frequency distribution plot shows a distinct break in this area. No values at all report in the range above 90 and below 100 ppb.

Anomalous values range from the 100 ppb level to a high of 1360 ppb. There is a distinct cluster of higher values in the southeastern part of the grid. Here ten anomalous values are scattered irregularly over an area from L.13S to L.18S and lying east of the baseline. In this area there are numerous old cuts and workings on sulphide zones which have long been known. Although sampling of these zones has never returned significant values in gold, nevertheless the presence of these, often bedded, sulphide areas is probably an adequate explanation for the scattered anomalous gold values in the soil.


All of the other anomalous values occur as scattered isolated highs in the northern portion of the grid in the upper valley of Skeff Creek. In some instances, specifically the value of 985 ppb on the baseline at L.6S, the anomalous condition probably relates to placer-enriched stream deposits in the bed of Skeff Creek. The several other spot highs require more detailed on-site investigation.

It should be noted that there appears to be no trail of gold values onto the claims from the Athelstan Jackpot property which lies immediately north of the property boundary and up slope from the scatter of higher values in the upper valley of Skeff Creek. The trend of the last local glacial movement would have been from north to south in this area but this does not seem to have resulted in a southerly dispersion of gold values from the Athelstan Jackpot.

#### RECOMMENDATIONS

1. Detailed follow-up should be undertaken in the areas of spot gold anomalies in soil in the upper valley of Skeff Creek.
2. The results of the geological mapping from the present program should be integrated with existing data from previous mapping to give a complete geological overview of the property.

Respectfully submitted

  
G.H. Rayner, P. Eng.



## REFERENCES


- Dawson, J.M.; 1982, Report on the Sylvester K. Property for Kettle River Resources Ltd., private company report.
- Gutrath, G.C.; 1976, Report on the April Claim Group, July Creek, Phoenix Mine area, private company report.
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- Monger, J.W.H.; 1967, Early Tertiary Stratified Rocks, Greenwood Map-Area, G.S.C. Paper 67-42.

CERTIFICATE

I, Gerald H. Rayner do hereby certify that:

1. I am a consulting geological engineer with offices at 626 Duchess Avenue, West Vancouver, B.C.
2. I am a graduate of the University of British Columbia (B.Sc. Geology).
3. I am a member in good standing of the Association of Professional Engineers of the Province of British Columbia.
4. I have practised my profession since 1958 primarily in Western North America and the South Pacific.
5. This report is based on personal examinations of the property during July 6th to 10th, 1983; May 11th to 18th, 1984; on a general familiarity with the geology of the district, on the references cited and on various company data.
6. I have no interest in the shares or properties of Banqwest Resources Ltd. nor do I expect to receive any.

Dated at West Vancouver this 12th day of October, 1984:

  
G.H. Rayner, P. Eng.



APPENDIX I

APPENDIX I

STATEMENT OF COSTS

G.H. Rayner, P. Eng., Geological Consultant:	
May 11th-18th, 1984. Geological mapping. 8 days @\$450/day	\$ 3,600.00
May 10th-19th, 1984. Travel. 2 days @\$450/day	900.00
Accommodation--G.H. Rayner:	
May 10th-18th, 1984. 9 days @\$43/day	387.00
Food--G.H. Rayner:	
May 10th-19th	246.00
Base map preparation (McElhanney)	1,855.00
Geochemical analyses:	
395 samples for gold only @\$6.48	2,561.00
Truck costs:	
Mileage--1438 miles @30¢/mi.	431.40
Gas and oil	228.00
Office and field supplies	162.00
Report Preparation:	
G.H. Rayner, P. Eng.--5 days@\$450/day	2,250.00
Draughting	386.00
Photocopying and supplies	168.90
Secretarial	89.40
	<hr/>
TOTAL	\$13,264.70





APPENDIX II

Bondar-Clegg & Company Ltd.  
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**BONDAR-CLEGG**

*By hand 11:50*

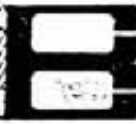
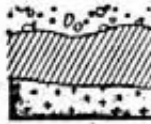
**Geochemical  
Lab Report**

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CC G. RAYNER

MAY 28/84

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**BONDAR-CLEGG**

**Geochemical  
Lab Report**

REPORT: 124-0661

FROM: BANGWEST RESOURCES LTD  
DATE: 15-MAY-84 PROJECT: NONE GIVEN

SUBMITTED BY: S RAYNER

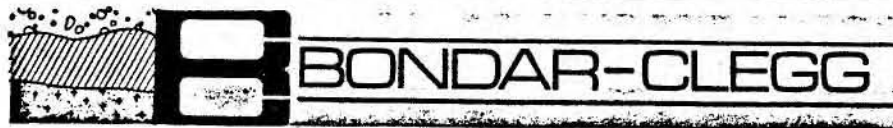
ORDER	ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS
01	Au	5 PPD	AQUA REGIA	Fire Assay AA	-30	SOILS	AS RECEIVED, WG SF

REPORT COPIES TO: MR. S RAYNER

INVOICE TO: MR. S RAYNER



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Geochemical  
 Lab Report

REPORT: 124-0661

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTE
S 18-36W		15		S 48-3W		5	
S 18-39W		15		S 48-6W		45	
S 18-42W		15		S 48-9W		5	
S 18-45W		15		S 48-12W		330	
S 18-48W		35		S 48-15W		10	
S 18-51W		10		S 48-18W		5	
S 18-54W		25		S 48-21W		220	
S 18-57W		80		S 48-24W		5	
S 18-60W		45		S 48-27W		15	
S 18-63W		110		S 48-30W		5	
S 28-33E		15		S 48-33W		30	
S 28-42W		80		S 48-36W		15	
S 28-45W		25		S 48-39W		80	
S 28-48W		15		S 48-42W		115	
S 28-51W		75		S 48-45W		45	
S 28-54W		85		S 48-48W		60	
S 28-57W		110		S 48-51W		15	
S 28-60W		45		S 48-54W		175	
S 28-63W		45		S 48-57W		20	
S 38-3W		15		S 48-60W		65	
S 38-6W		10		S 48-63W		15	
S 38-9W		45		S 48-66W		100	
S 38-12W		5		S 58-8L		15	
S 38-15W		755		S 58-3E		20	
S 38-18W		15		S 58-6E		40	
S 38-21W		20		S 58-9E		15	
S 38-24W		40		S 58-12E		45	
S 38-27W		45		S 58-15E		15	
S 38-30W		15		S 58-3W		80	
S 38-33W		10		S 58-6W		55	
S 38-36W		5		S 58-9W		5	
S 38-39W		60		S 58-12W		5	
S 38-42W		45		S 58-15W		30	
S 38-45W		15		S 58-18W		55	
S 38-48W		40		S 58-21W		45	
S 38-51W		80		S 58-24W		10	
S 38-54W		40		S 58-27W		45	
S 38-57W		40		S 58-30W		15	
S 38-60W		75		S 58-33W		10	
S 38-63W		5		S 58-36W		80	



REPORT: 124-0661

PROJECT: NONE GIVEN

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTE
S 55-39W		40		S 75-9+50W		<5	
S 55-63W		15		S 75-10+00W		<5	
S 55-66W		15		S 85-3E		40	
S 65-12E		15		S 85-6E		40	
S 65-15E		10		S 85-9E		110	
S 65-6W		30		S 85-12E		45	
S 65-9W		70		S 85-15E		<5	
S 65-12W		20		S 85-18E		40	
S 65-15W		10		S 85-21E		15	
S 65-18W		35		S 85-24E		75	
S 65-21W		15		S 85-27E		190	
S 65-24W		<5		S 85-30E		15	
S 65-27W		75		S 85-33E		20	
S 65-30W		15		S 85-3W		5	
S 65-33W		15		S 85-6W		10	
S 65-63W		<5		S 85-9W		5	
S 65-66W		100		S 85-12W		20	
S 75-3E		50		S 85-15W		<5	
S 75-6E		40		S 85-18W		85	
S 75-9E		110		S 85-21W		<5	
S 75-12E		15		S 85-24W		15	
S 75-0+00W		<5		S 85-27W		190	
S 75-0+50W		15		S 85-30W		15	
S 75-1+00W		5		S 85-0+00W		<5	
S 75-1+50W		25		S 85-5+00W		15	
S 75-2+00W		175		S 85-5+50W		15	
S 75-2+50W		1360		S 85-6+00W		<5	
S 75-3+00W		35		S 85-6+50W		45	
S 75-3+50W		10		S 85-7+00W		15	
S 75-4+00W		245		S 85-7+50W		15	
S 75-4+50W		10		S 85-8+00W		10	
S 75-5+00W		20		S 85-8+50W		<5	
S 75-5+50W		14		S 85-9+00W		<5	
S 75-6+00W		15		S 85-9+50W		<5	
S 75-6+50W		30		S 85-10+00W		<5	
S 75-7+00W		10		S 95-8L		15	
S 75-7+50W		15		S 95-3E		15	
S 75-8+00W		15		S 95-6E		20	
S 75-8+50W		85		S 95-9E		20	
S 75-9+00W		5		S 95-12E		25	



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PROJECT: NONE GIVEN

PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTE
S 95-15E		5		S 105-33E		5	
S 95-16E		20		S 105-8W		5	
S 95-21E		45		S 105-9W		20	
S 95-24E		20		S 105-12W		15	
S 95-27E		15		S 105-15W		20	
S 95-30E		50		S 105-18W		15	
S 95-33E		10		S 105-21W		5	
S 95-34W		15		S 105-24W		45	
S 95-64W		10		S 105-27W		20	
S 95-94W		20		S 105-30W		45	
S 95-124		80		S 105-33W		45	
S 95-154		50		S 105-364		45	
S 95-154		10		S 105-39W		45	
S 95-214		25		S 105-42W		10	
S 95-244		10		S 105-45W		45	
S 95-274		15		S 105-48W		5	
S 95-304		10		S 105-51W		45	
S 95-334		45		S 105-54W		45	
S 95-364		45		S 105-57W		45	
S 95-394		45		S 105-60W		35	
S 95-424		140		S 105-63W		5	
S 95-454		45		S 105-66W		40	
S 95-484		5		S 105-0+50W		10	
S 95-514		45		S 105-1+00W		45	
S 95-544		45		S 105-1+50W		10	
S 95-574		5		S 105-2+00W		45	
S 95-604		15		S 105-2+50W		45	
S 95-634		45		S 105-3+00W		5	
S 95-664		45		S 105-3+50W		45	
S 105-6L		10		S 105-4+00W		45	
S 105-3E		25		S 105-4+50W		25	
S 105-3E		5		S 105-5+00W		45	
S 105-3E		45		S 105-5+50W		10	
S 105-12E		15		S 105-6+00W		65	
S 105-15E		15		S 105-6+50W		45	
S 105-18E		15		S 105-7+00W		15	
S 105-21E		10		S 105-7+50W		45	
S 105-24E		10		S 105-8+00W		45	
S 105-27E		30		S 105-8+50W		45	
S 105-30E		20		S 105-9+00W		45	





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PROJECT: NONE GIVEN

PAGE 4

SAMPLE NUMBER	ELEMENT UNITS	AU PFB	NOTE	SAMPLE NUMBER	ELEMENT UNITS	AU PFB	NOTE
S 118-BL		80		S 128-4+50E		10	
S 118-0+50E		140		S 128-5+00E		<5	
S 118-1+00E		20		S 128-9+50W		10	
S 118-1+50E		<5		S 128-10+00W		35	
S 118-2+00E		15		S 138-BL		65	
S 118-2+50E		<5		S 138-0+50E		25	
S 118-3+00E		5		S 138-4+50E		20	
S 118-3+50E		15		S 138-5+00E		90	
S 118-4+00E		10		S 138-0+50W		15	
S 118-4+50E		15		S 138-1+00W		15	
S 118-5+00E		<5		S 138-1+50W		5	
S 118-0+50W		10		S 138-2+00W		20	
S 118-1+00W		<5		S 138-2+50W		<5	
S 118-1+50W		<5		S 138-3+00W		<5	
S 118-2+00W		75		S 138-3+50W		5	
S 118-2+50W		5		S 138-4+00W		<5	
S 118-3+00W		5		S 138-4+50W		10	
S 118-3+50W		<5		S 148-4+50E		40	
S 118-4+00W		<5		S 148-5+00E		30	
S 118-4+50W		<5		S 148-0+50W		<5	
S 118-5+00W		<5		S 148-1+00W		<5	
S 118-5+50W		<5		S 148-1+50W		<5	
S 118-6+00W		5		S 148-2+00W		<5	
S 118-6+50W		10		S 148-2+50W		10	
S 118-7+00W		<5		S 148-3+00W		10	
S 118-7+50W		<5		S 148-3+50W		<5	
S 118-8+00W		30		S 148-4+00W		40	
S 118-8+50W		<5		S 148-4+50W		5	
S 118-9+00W		185		S 148-5+00W		145	
S 118-9+50W		<5		S 148-9+00W		10	
S 118-10+00W		5		S 148-9+50W		25	
S 128-BL		20		S 148-10+00W		5	
S 128-0+50E		10		S 158-4+50E		20	
S 128-1+00E		20		S 158-5+00E		<5	
S 128-1+50E		25		S 158-0+50W		<5	
S 128-2+00E		15		S 158-1+00W		<5	
S 128-2+50E		<5		S 158-1+50W		20	
S 128-3+00E		105		S 158-2+00W		10	
S 128-3+50E		20		S 158-2+50W		<5	
S 128-4+00E		70		S 158-3+00W		40	



REPORT: 124-0661

PROJECT: NONE GIVEN

PAGE 5

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTE	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTE
S 155-3+50W		<5		S 175-4+50W		<5	
S 155-4+00W		5		S 175-5+00W		<5	
S 155-4+50W		<5		S 175-5+50W		5	
S 155-5+00W		<5		S 175-6+00W		<5	
S 155-5+50W		5		S 175-6+50W		15	
S 155-6+00W		<5		S 175-7+00W		25	
S 155-6+50W		<5		S 175-7+50W		<5	
S 155-7+00W		<5		S 175-8+00W		10	
S 155-7+50W		<5		S 175-8+50W		<5	
S 155-8+00W		40		S 175-9+00W		10	
S 155-8+50W		10		S 175-9+50W		5	
S 155-9+00W		40		S 175-10+00W		5	
S 155-9+50W		10		S 185-4+50E		20	
S 155-10+00W		10		S 185-5+00E		5	
S 165-4+50E		30		S 185-0+50W		10	
S 165-5+00E		15		S 185-1+00W		5	
S 165-0+50W		25		S 185-1+50W		5	
S 165-1+00W		5		S 185-2+00W		<5	
S 165-1+50W		10		S 185-2+50W		<5	
S 165-2+00W		15		S 185-3+00W		<5	
S 165-2+50W		25		S 185-3+50W		15	
S 165-3+00W		<5		S 185-4+00W		<5	
S 165-3+50W		20		S 185-4+50W		5	
S 165-4+00W		<5		S 185-5+00W		<5	
S 165-4+50W		<5		S 185-5+50W		15	
S 165-5+00W		<5		S 185-6+00W		10	
S 165-5+50W		<5		S 185-6+50W		<5	
S 165-6+00W		<5		S 185-7+00W		10	
S 165-6+50W		<5		S 185-7+50W		10	
S 165-7+00W		5		S 185-8+00W		<5	
S 165-7+50W		10		S 185-8+50W		<5	
S 165-8+00W		<5		S 185-9+00W		<5	
S 165-8+50W		<5		S 185-9+50W		10	
S 165-9+00W		10		S 185-10+00W		30	
S 165-9+50W		5					
S 175-4+50E		5					
S 175-5+00E		75					
S 175-0+50W		20					
S 175-1+00W		<5					

Bondar-Clegg & Company Ltd.  
130 Pemberton Ave.  
North Vancouver, B.C.  
Canada V7P 2R5  
Phone: (604) 965-0681  
Telex: 06-352607



**BONDAR-CLEGG**

**Geochemical  
Lab Report**

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[Empty rectangular box]

MINNESOTA 120-0971 CLIENT: BANWEST

**MAIL COPIES TO:**

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c/o MR. D. M. MERCIER  
P.O. BOX 10354  
1040-609 GRANVILLE ST.  
VANCOUVER, B.C. V7Y 1G5

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cc G. RAYNER MAY 28/83



Bondar-Clegg & Company Ltd.  
111 Pemberton Ave.  
North Vancouver, B.C.  
Canada V7P 2R5  
Phone: (604) 985-0681  
04-352667



BONDAR-CLEGG

Geochemical  
Lab Report

REPORT: 123-0971

FROM: BANQWEST RESOURCES LTD  
DATE: 20-JUN-83 PROJECT: NONE GIVEN

SUBMITTED BY: P SAWYER

ELEMENT	LOWER DETECTION LIMIT	EXTRACTION	METHOD	SIZE FRACTION	SAMPLE TYPE	SAMPLE PREPARATIONS
Au	5 PPB	AQUA REGIA	Fire Assay AA	-80	PREPARED PULP	AS RECEIVED, NO SP

REPORT COPIES TO: MR. D. M. MERCIER  
MR. J. McAUSLAND

INVOICE TO: MR. D. M. MERCIER

REMARKS:

DETECTION LIMITS FOR GOLD

20 gram sample: 5 ppb.

10 gram sample: 10 ppb.

1 gram sample: 100 ppb.

Sample Wt. 20 g. unless otherwise stated.

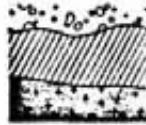
NOTE:

Check concentration/sample weight ratio  
for effective detection level.

REPORT: 123-0971 PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	wt/Au	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	wt/Au	NOTES
S 1S-BL		20			S 3S-12E		20		
S 1S-3W		15			S 3S-15E		45		
S 1S-6W		20			S 3S-18E		205		
S 1S-9W		50			S 3S-21E		10		
S 1S-12W		25			S 3S-24E		45		
S 1S-15W		35			S 3S-27E		25		
S 1S-18W		75			S 3S-30E		10		
S 1S-21W		20			S 3S-33E		<5		
S 1S-24W		25			S 4S-0+00W		260		
S 1S-27W		10			S 4S-3E		25		
S 1S-30W		215			S 4S-6E		<5		
S 1S-33W		20			S 4S-9E		15		
S 2S-3E		20			S 4S-12E		25		
S 2S-6E		25			S 4S-15E		10		
S 2S-9E		20			S 4S-18E		20		
S 2S-12E		90			S 4S-21E		10		
S 2S-15E		20			S 4S-24E		30		
S 2S-18E		15			S 4S-27E		105		
S 2S-21E		25			S 4S-30E		<5		
S 2S-24E		55			S 4S-33E		<5		
S 2S-27E		10			S 5S-18E		40		
S 2S-30E		<5			S 5S-21E		15		
S 2S-0+00W		10			S 5S-24E		<5		
S 2S-3W		40			S 5S-27E		10		
S 2S-6W		10			S 5S-30E		15		
S 2S-9W		50			S 5S-33E		5		
S 2S-12W		10			S 5S-42W		90		
S 2S-15W		10			S 5S-45W		75		
S 2S-18W		40			S 5S-48W		50		
S 2S-21W		30			S 5S-51W		25		
S 2S-24W		10			S 5S-54W		105		
S 2S-27W		20			S 5S-57W		55		
S 2S-30W		210			S 5S-60W		590		
S 2S-33W		90			S 6S-BL		985		
S 2S-36W		25			S 6S-3E		10		
S 3S-7W		20			S 6S-6E		20		
S 3S-0+00W		5			S 6S-9E		15		
S 3S-3E		100			S 6S-18E		<5		
S 3S-6E		55			S 6S-21E		<5		
S 3S-9E		15			S 6S-24E		100		



REPORT: 123-0971 PROJECT: NONE GIVEN

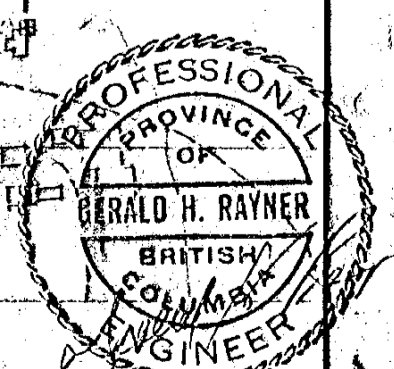
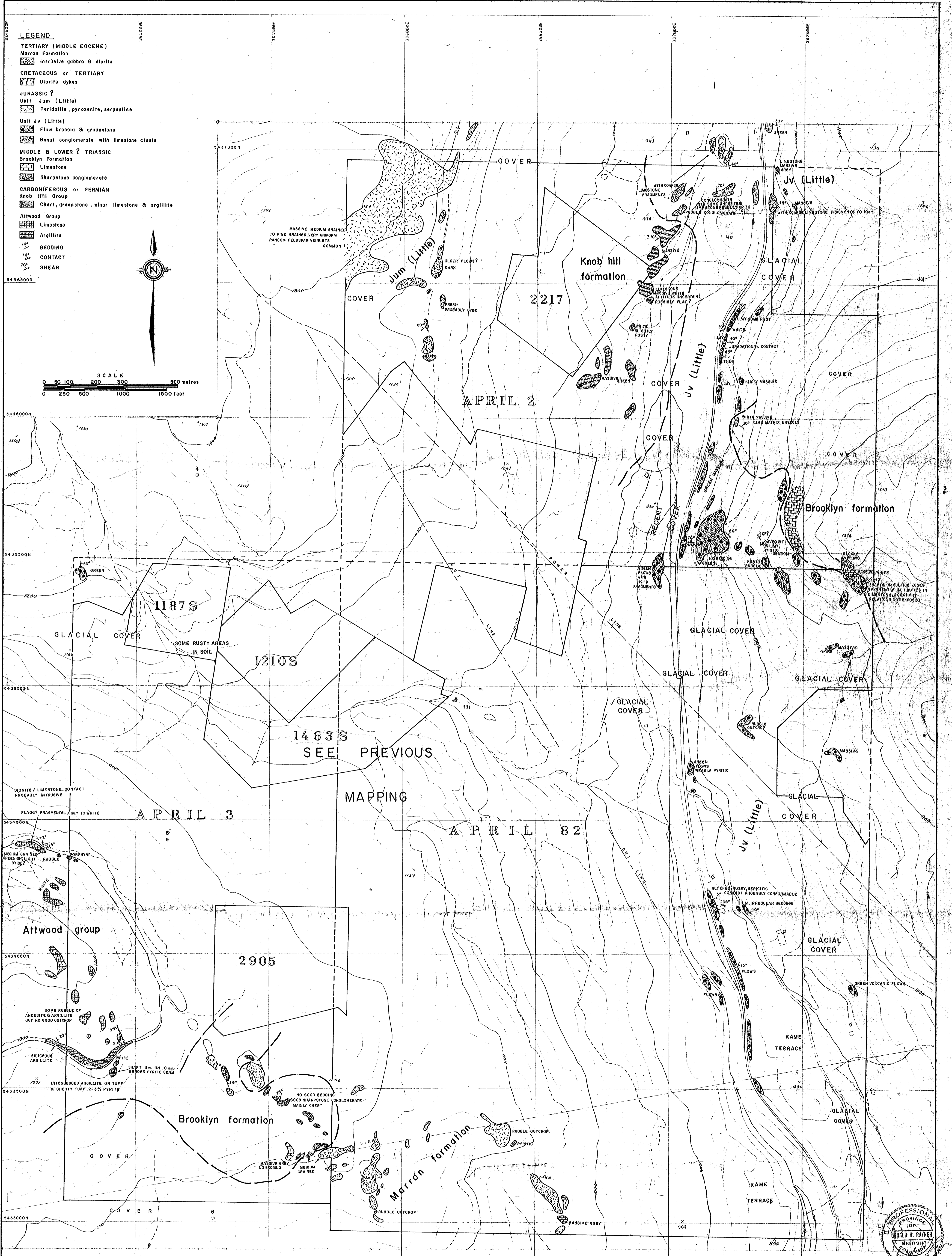
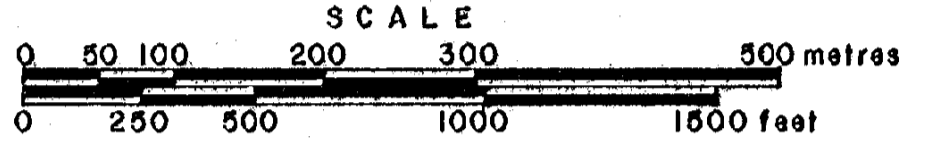
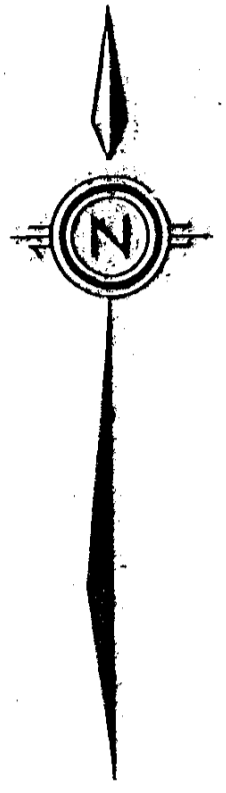
PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	wt/Au	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Au PPB	wt/Au	NOTES
S 6S-27E		25			S 14S-1+00E		445		
S 6S-30E		10			S 14S-1+50E		10		
S 6S-33E		10			S 14S-2+00E		60		
S 6S-3M		<5			S 14S-2+50E		25		
S 6S-36W		50			S 14S-3+00E		535		
S 6S-39W		40			S 14S-3+50E		125		
S 6S-42W		5			S 14S-4+00E		40		
S 6S-45W		<5			S 14S-5+50W		<5		
S 6S-48W		25			S 14S-6+00W		<5		
S 6S-51W		10			S 14S-6+50W		5		
S 6S-54W		65			S 14S-7+00W		110		
S 6S-57W		10			S 14S-7+50W		5		
S 6S-60W		140			S 14S-8+00W		15		
S 7S-15E		195			S 14S-8+50W		10		
S 7S-18E		70			S 15S-0+00E		25		
S 7S-21E		25			S 15S-1+00E		<5		
S 7S-24E		15			S 15S-1+50E		180		
S 7S-27E		280			S 15S-2+00E		25		
S 7S-30E		20			S 15S-2+50E		25		
S 7S-33E		25			S 15S-3+00E		25		
S 13S-1+00E		25			S 15S-3+50E		30		
S 13S-1+50E		160			S 15S-4+00E		40	2.0	
S 13S-2+00E		50			S 16S-0+00E		<5		
S 13S-2+50E		25			S 16S-0+50E		30		
S 13S-3+00E		10			S 16S-1+00E		20		
S 13S-3+50E		10			S 16S-1+50E		20		
S 13S-4+00E		480			S 16S-2+00E		20		
S 13S-5+00W		60			S 16S-2+50E		25		
S 13S-5+50W		<5			S 16S-3+00E		5		
S 13S-6+00W		<5			S 16S-3+50E		295		
S 13S-6+50W		10			S 16S-4+00E		5		
S 13S-7+00W		65			S 17S-0+00W		15		
S 13S-7+50W		65			S 17S-0+50E		<5		
S 13S-8+00W		10			S 17S-1+00E		10		
S 13S-8+50W		20			S 17S-1+50E		15		
S 13S-9+00W		10			S 17S-2+00E		35		
S 13S-9+50W		10			S 17S-2+50E		25		
S 13S-10+00W		95			S 17S-3+00E		70		
S 14S-BL		10			S 17S-3+50E		45		
S 14S-0+50E		100			S 17S-4+00E		15		





- LEGEND**
- TERTIARY (MIDDLE EOCENE)**  
 Marron Formation  
 Intrusive gabbro & diorite
- CRETACEOUS or TERTIARY**  
 Diorite dykes
- JURASSIC ?**  
 Unit Jum (Little)  
 Peridotite, pyroxenite, serpentine
- Unit Jv (Little)**  
 Flow breccia & greenstone  
 Basal conglomerate with limestone clasts
- MIDDLE & LOWER ? TRIASSIC**  
 Brooklyn Formation  
 Limestone  
 Sharpstone conglomerate
- CARBONIFEROUS or PERMIAN**  
 Knob Hill Group  
 Chert, greenstone, minor limestone & argillite
- Attwood Group**  
 Limestone  
 Argillite
- BEDDING**  
 70°  
 CONTACT  
 SHEAR



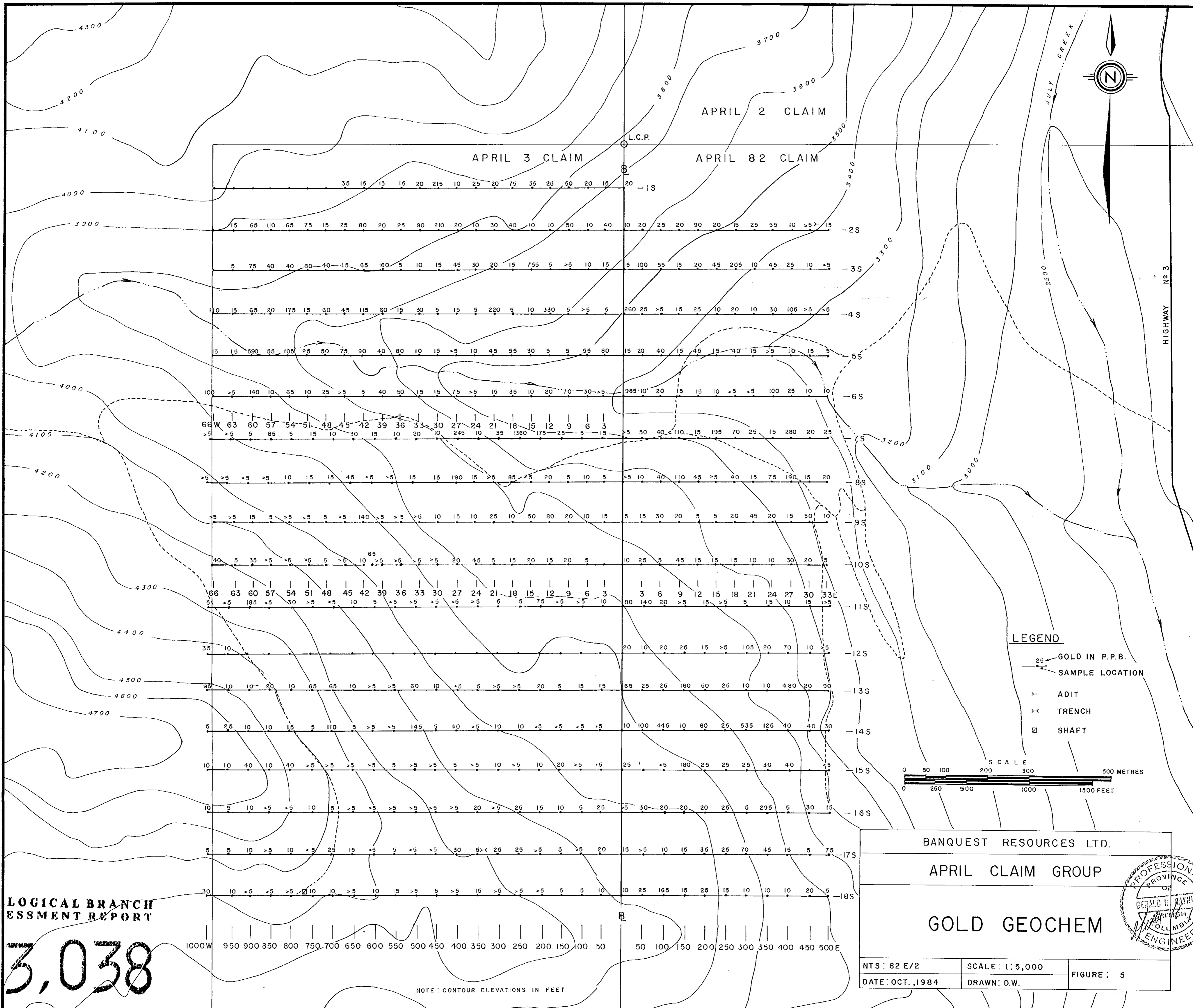
GEOLOGICAL BRANCH  
 ASSESSMENT REPORT

13,038

**BANQUEST RESOURCES LTD.**  
 APRIL CLAIM GROUP  
**GEOLOGY**

**G. H. RAYNER AND ASSOC. LTD.**  
 OCT. 12, 1984  
 Scale 1:5000  
 Date June 1984  
 Contour Interval 20 Metres  
 Sheet No. 1 of 1





GEOLOGICAL BRANCH  
ASSESSMENT REPORT

13,038

1000W 950 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 50 100 150 200 250 300 350 400 450 500E

NOTE: CONTOUR ELEVATIONS IN FEET