SUMMARY REPORT

1987 EXPLORATION PROGRAM

ROCHER DEBOULE PROPERTY

Omineca Mining Division
Latitude *55° 9.8'N Longitude 127° 35.6'W*
NTS Map Sheet 93M/4E

Stephen P. Quin
Mining Geologist

for

SOUTHERN GOLD RESOURCES LTD.
Suite 220, 145 Chadwick Court
North Vancouver, British Columbia
V7M 3K1

9 November 1987

16714

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1. *INTRODUCTION*

The Rocher Deboule property consists of approximately 9km² of reverted crown grants and located mineral claims 8km south of Hazelton in central British Columbia. An option on the property was acquired by Southern Gold Resources early in 1987 and a program of exploration was conducted during the months of July and August 1987.

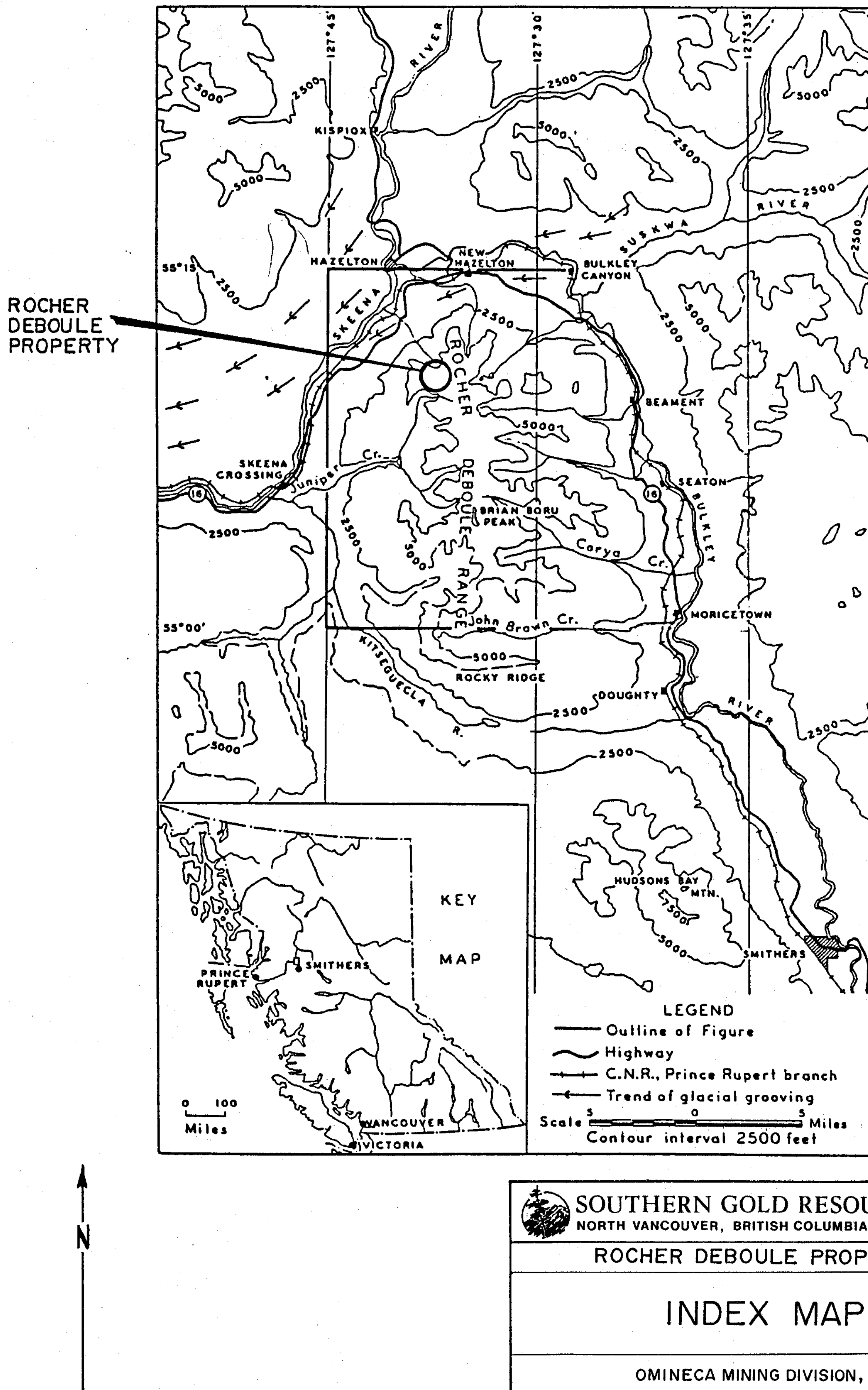
The Rocher Deboule property lies on the north western margin of a granidiorite pluton and a series of persistent quartz-sulphide veins have been located on the property. These veins have been located on the property. These veins contain precious metal sections that have seen limited production prior to 1955. The 1987 exploration program was designed to evaluate the economic potential of the property as a whole, concentrating principally on precious metal targets.

2. LOCATION & ACCESS

The Rocher Deboule property lies at the north end of the Rocher Deboule Range in central British Columbia at a Latitude of 55° 9.8'N and a Longitude of 127° 35.6'W on NTS Map Sheet 93M/4E. Most of the property lies in a basin within the range formed by glacial action and now drained by Juniper Creek (figure 1).

The majority of the property is reached via a 4-wheel drive road that leaves Highway 16 at Skeena Crossing, 19km southwest of Hazelton. This access road is a maintained logging road for 1km and then branches off to follow Juniper Creek to the old Rocher Deboule mine site, a distance of approximately 14.5km. The Juniper Creek road was heavily overgrown with alder and washed out in several places. It was improved using a D6 Cat bulldozer to 4-wheel drive standard, but will require further upgrading for continued use.

The Victoria area of the claim block is best reached from the west via an unmaintained 4-wheel drive road that leaves Highway 16 just southwest of Seeley Lake Provincial Park and climbs up the western slopes of the Rocher Deboule Range to approximately 400m below the lowest adit on the Victoria Vein. There are no roads to any of the other workings, although some cleared foot trails improve access.



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NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE PROPERTY

INDEX MAP

OMINECA MINING DIVISION, B.C.

Work by :	N.T.S. : 93 M/4
Drawn by :	Date : October 1987
	FIGURE 1

3. TOPOGRAPHY & CLIMATE

The Rocher Deboule Range of mountains are extremely rugged and slopes are steep to precipitous with large areas covered in talus. The terrain impedes access to many areas and the talus obliterates all outcrop at the lower elevations. Within the range elevations rise from 450m to over 2300m in a distance of only 2km. Within the property boundaries elevations vary from 975m to over 2200m. The majority of the areas below an elevation 1600m are covered in coarse talus while the areas above 1800m are rarely accessible due to precipitous bluffs.

Due to its position at the eastern edge of the Coast Mountain Range, the Rocher Deboule Range gets a mix of coastal and interior weather patterns. As a result winters result in heavy snow falls persisting into April or May. With the onset of summer, melting is quick and by July most of the property is snow free, apart from isolated areas of permanent snowfield. The summer months tend to be dry and hot, though coastal storms occasionally reach this far east.

Vegetation on the property is sparse. The only area with any significant amount of vegetation is the area immediately south and west of the Rocher Deboule mine site and on the lower slopes of Armagosa Creek. This principally consists of scrubby Pine and Juniper. The rest of the property is entirely barren, either comprising of bare rock or talus covered slopes.

4. PROPERTY & OWNERSHIP

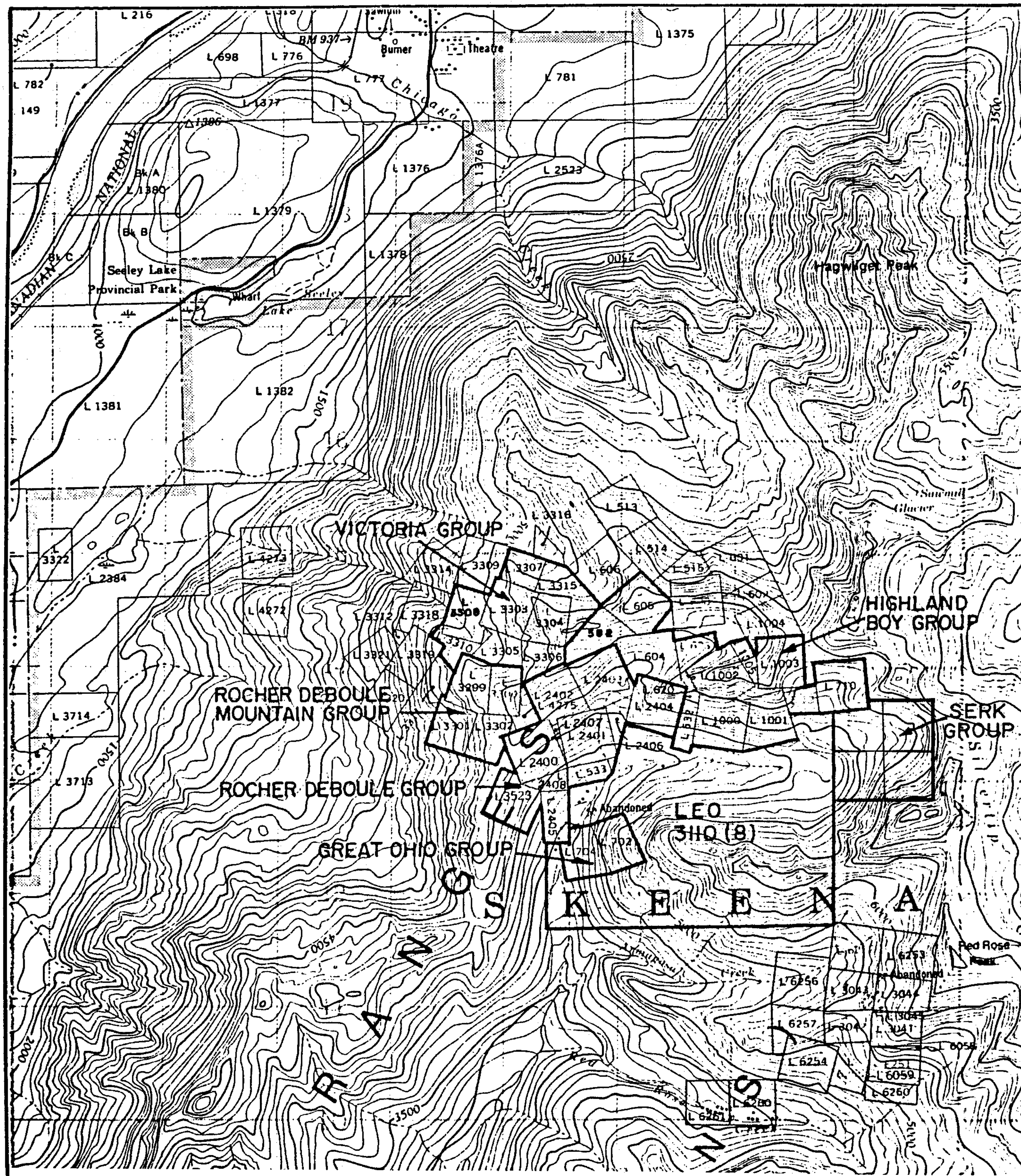
The property consists of 36 reverted crown grants, two located fractional claims, four 2-post claims and one 20-unit located modified grid claim. All the reverted Crown Grants have been surveyed and the data is available in Victoria. Several of the old claim posts were also located in the field. The claims are listed following. The claims, except for the Serk 1-4, are grouped as the Rocher Deboule Group (see Figure 2).

Southern Gold Resources acquired interest in the property from W.B. Craig in an acquisition agreement dated 5 February 1987. Under the terms of the agreement, Southern Gold is required to make a series of cash payments to Craig on the 31st January of each year, as long as it keeps the property. This gives Southern Gold a 100% working interest in the property, subject to the conditions of the agreement. However, that portion of the Victoria vein and cross vein on the Victoria (Lot 3303) and Belle (Lot 3304) above an elevation of 1575m is subject to a prior lease to J.M. Hutter of Telkwa, B.C.

TABLE 1: LIST OF CLAIMS

Claim Name	*Type	Record #	Lot #	Record Date
Hazelton View	RCG	401	3299	25 8 1976
Lead Pick	RCG	402	3300	25 8 1976
Moose	RCG	403	3301	25 8 1976
Elk	RCG	404	3302	25 8 1976
Delta Fr	RCG	455	604	26 10 1976
Joe Fr	RCG	456	533	26 10 1976
Juniper	RCG	457	2400	26 10 1976
Balsam	RCG	458	2401	26 10 1976
Jack Pine	RCG	459	2402	26 10 1976
Timber Line	RCG	460	2403	26 10 1976
Iowa	RCG	461	2404	26 10 1976
Log Cabin	RCG	462	2405	26 10 1976
Balsam Fr	RCG	463	2406	26 10 1976
Pie Fr	RCG	464	2407	26 10 1976
Third Fr	RCG	465	2408	26 10 1976
Victoria	RCG	466	3303	26 10 1976
Belle	RCG	467	3304	26 10 1976
View Fr	RCG	468	3305	26 10 1976
Belle	RCG	469	3306	26 10 1976
Mamouth	RCG	470	3307	26 10 1976
Tiger	RCG	471	3308	26 10 1976
Bowl Fr	RCG	472	3309	26 10 1976
Summit	RCG	555	605	5 4 1977
Great Ohio	RCG	556	702	5 4 1977
Pilot	RCG	557	704	5 4 1977
Summit Fr	Fr	582	NA	6 4 1977
Waterfall Fr	Fr	583	NA	22 4 1977
Coral Queen	RCG	616	532	21 6 1977
Lucky Jack	RCG	617	603	21 6 1977
Islander	RCG	618	710	21 6 1977
Golden Fleece	RCG	619	1001	21 6 1977
Happy Jack	RCG	620	1003	21 6 1977
Zig Zag	RCG	621	1005	21 6 1977
Balmoral	RCG	622	1002	21 6 1977
Highland Boy	RCG	623	1000	21 6 1977
Independence Fr	RCG	687	4275	25 7 1978
Red Cross	RCG	1372	3310	13 9 1978
Last Chance	RCG	7609	3523	16 5 1986
Leo	MG	3110	NA	20 8 1980
Serk 1-4	2P	8820-8823	NA	3 9 1987

*Types of Claims: RCG = Reverted Crown Grant
MG = Modified Grid
2P = Two Post
Fr = Located Fractional Claims



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SCALE 1:50,000

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NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE PROPERTY

CLAIM MAP

OMINECA MINING DIVISION, B.C.

Work by :		N. T. S. :	93 M/4
Drawn by :	R.N.G.	Date :	OCT. 1987

FIGURE 2

5. HISTORY

The history of the Rocher Deboule Mines is extensively covered in provincial publications (eg Kindle 1954, Sutherland Brown 1960, etc.) and is summarized in detail by Woodcock (1987) in his engineering report on the property to accompany Southern Gold Resources Prospectus.

However, in brief, there are six principal vein structures on the property all of which have seen limited development.

5.1 Mine Area

Most of the historical activity was concentrated on the #2 and #4 veins and the majority of production came from the copper rich #4 vein under the Rocher Deboule Mining Company (Figure 4). Considerable exploration was conducted on the #2 vein but with very limited production mostly confined to the precious metal rich sections of the vein in the 1950's. Reported production is as outlined below.

TABLE 2: RECORDED PRODUCTION OF ROCHER DEBOULE MINE

Year	Tons	Gold oz.	Silver oz.	Copper lb.
1915	17,000	1,418	21,893	2,788,000
1916	16,760	1,184	16,738	1,753,225
1917	2,889	781	7,987	714,871
1918	3,184	832	16,247	635,870
1929	72	10	2,972	6,120
1952	12,814	267	8,640	305,498
Total	52,719	4,492	84,477	6,203,584

It appears that his table quotes gross metal contents and can therefore be used to derive grades. The grade of the direct shipping ore averaged 0.106 oz/ton Au, 1.65 oz/ton Ag, and 7.5% Cu; the milled ore averaged 0.021 oz/ton Au, 1.45 oz/ton Ag, and 0.238% Cu; and the total ore production averaged 0.085 oz/ton Au, 1.602 oz/ton Ag, and 5.88% Cu (Woodcock 1987).

However, several sections of these veins, particularly the #2 vein, assay significantly higher in precious metals than these averages and were resampled during the 1987 program. Details of this resampling are presented in section 3.4 of this report.

5.2 Highland Boy

The Highland Boy Vein is located east of the #4 vein and runs across a series of knife edge ridges and hence is only accessible at the western and eastern ends (figure 4). At these points several adits were driven into the vein structure by the Delta Copper Company. There was no further activity on the property subsequent to Western Tungsten Copper Mines acquiring the property in 1921.

5.3 Armagosa Vein

The Armagosa zone is located on the north side of Armagosa Creek (see figure 4), approximately 600m south of the Great Ohio vein (see 5.4). It consists of a north east striking shear zone with several narrow veins. Very little work has been recorded on this area, although one adit was observed during 1987.

5.4 Great Ohio Vein

The Great Ohio vein is located southeast of the Rocher Deboule Mine site in the steep cliffs above Juniper Creek. It has a similar history of development to the Highland Boy, being discovered in 1913, prospected and an adit driven along the shear/vein zone prior to 1920. The claims have been inactive since those times.

5.5 Victoria Veins

The Victoria veins are the only veins on the Rocher Deboule property located on the western slopes of the mountains and they have been the focus of much of the recent exploration activity in the area. Development of several adits was undertaken during the period 1916-1919 and several car loads of gold-cobalt ore were shipped in the period 1918-1950. The property was then inactive until 1976 when Arbor Resources Inc. acquired the rights to the Victoria veins, constructed access road and sampled the veins. At the same time DeGroot Logging were working an adjacent ground, not under lease to Arbor Resources, and conducted an unsuccessful diamond drilling program on one of the veins in 1983. The majority of this property is now controlled by Southern Gold Resources Ltd.

6. GEOLOGY

6.1 Geological Setting

The most recent mapping in the area was undertaken by T.A. Richards on behalf of the Geological Survey of Canada during 1977 and 1978. Thus updated Sutherland Brown's work in 1960 and kindle's economic evaluation of the area in 1954.

According to Richards (1978);

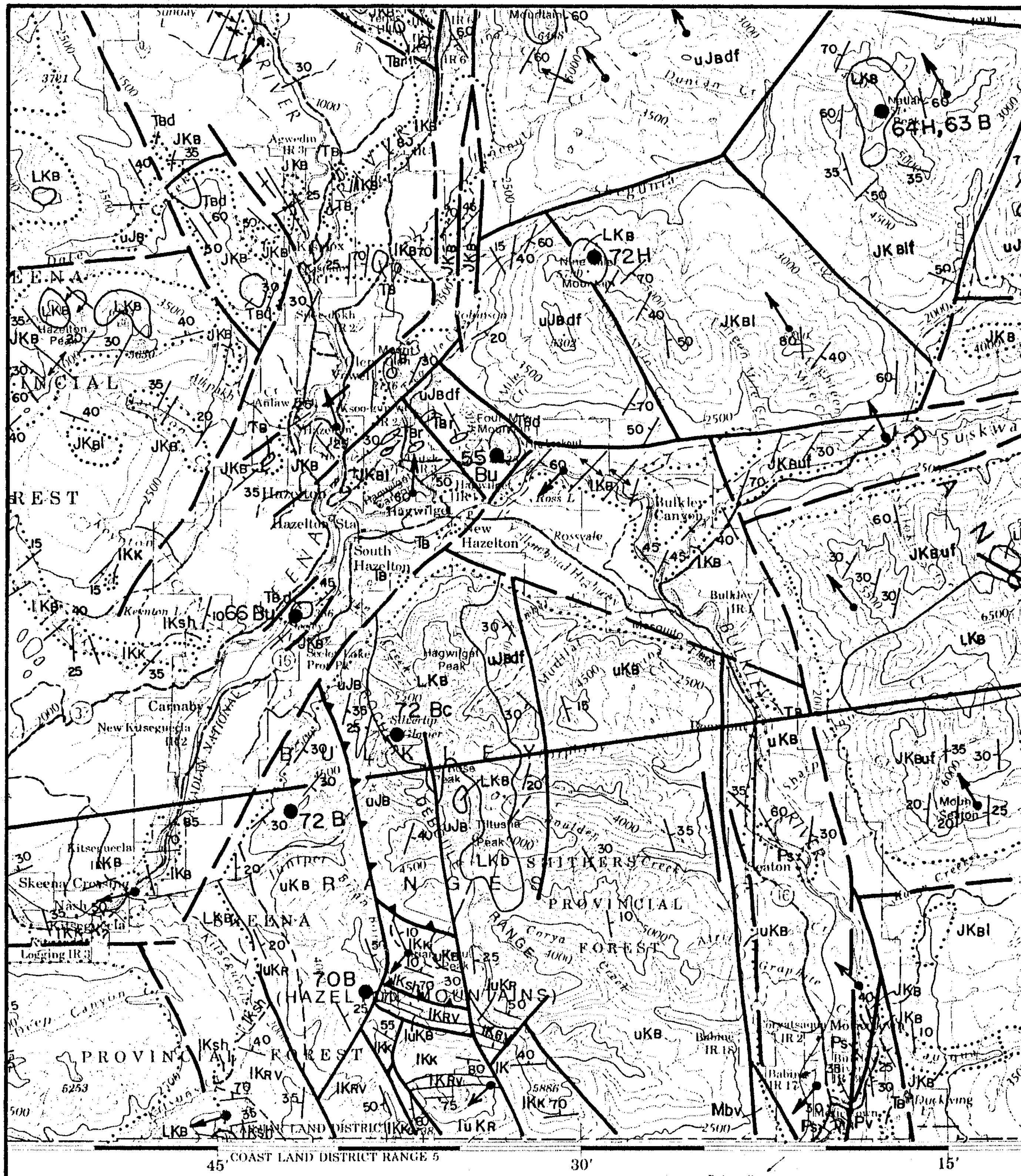
> "The area is underlain by late Jurassic to early Tertiary successor basin assemblages of the Bowser Lake, Skeena and Sustut groups, containing locally significant thicknesses of volcanic rocks. Granidioritic intrusions, from large stocks to abundant dykes, are assigned to the late Cretaceous Bulkley Intrusions. They are closely related to most of the mineral occurrences in the area."

The regional geological setting is illustrated in figure 3.

6.2 Property Geology

The Rocher Deboule property lies on the western margin of the Rocher Deboule pluton, as shown in Figure 5, with the southern and western areas being underlain by Upper Jurassic - Lower Cretaceous Bowser Lake Group. Woodcock (1987) describes the morphology of the Rocher Deboule stock in reasonable detail.

> "The Rocher Deboule stock underlies about 27 square miles of the northern central part of the range. The stock is an elongate pluton oriented N 25 W. It is a composite of two domes with a connecting saddle. The details of the walls of this stock are readily apparent in the great vertical exposures that this rugged relief offers, and the roof is exposed along parts of the central spine of peaks. The stock is asymmetrical, the eastern side has a gentler slope than the western side.
>
> The main part of the stock is composed of porphyritic granodiorite, a light grey mottled rock in which tabular phenocrysts of plagioclase and dark hornblende and biotite are set in a faintly pink matrix. In general the porphyritic granodiorite is very homogeneous; however there are variants (diorites and low potash granodiorites) of limited occurrence.
>
> Inclusions in the porphyritic granodiorite are ubiquitous forming approximately 1% of the rock in the main mass and from 2% to 4% near the roof contacts. Some of these inclusions are up to 40 feet long.
>
> The second rock type of the Rocher Deboule stock is a fine-grained, buff coloured, biotite quartz monzonite which forms



For LEGEND, see Figure 3

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NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE PROPERTY

REGIONAL GEOLOGY

OMINECA MINING DIVISION, B.C.

Work by :		N.T.S. :	93 M
Drawn by :		Date :	OCT. 1987
			FIGURE 3

STRATIFIED ROCKS

TERTIARY

MIOCENE

Mbv	basalt

PALEOCENE AND EOCENE

PEs / Ps, Pv	sandstone, conglomerate, siltstone, coal, tuff; minor andesite (Pv)

CRETACEOUS

UPPER CRETACEOUS

uKB	BRIAN BORU FORMATION: acid to intermediate volcanics; rhyolite flows, breccia, and tuff; biotite and hornblende porphyry flows, breccia, and lahar; tuffaceous siltstone, sandstone, conglomerate; minor basalt

SKEENA GROUP (luKT)

ALBIAN, CENOMANIAN, AND (?) YOUNGER

luKR	RED ROSE FORMATION: well bedded sandstone, chert pebble conglomerate, red gritty siltstone, and tuff

ALBIAN

lKRv	"Rocky Ridge volcanics": alkaline augite porphyry, hornblende feldspar porphyry, tuff, breccia, and agglomerate-lahar; olivine porphyry, basalt, aquagene basalt, tuff, breccia, and flows

HAUTERIVIAN TO ALBIAN

lKK	"Kitsuns Creek sediments": sandstone, chert and quartz pebble conglomerate, siltstone, shale, muscovite common; minor coal; detrital, mainly alluvial, interfingers in part with lKsh

JURASSIC AND CRETACEOUS

UPPER JURASSIC AND LOWER CRETACEOUS

BOWSER LAKE GROUP

HAUTERIVIAN (?)

lKB	"Upper Bowser Lake subdivision": Lower floodplain facies, channel sandstone dominant; overbank sandstone, siltstone, shale, and coal; minor conglomerate with dominant carbonaceous and volcanic detritus; biotite, minor chert, rare muscovite

KIMMERIDGIAN TO HAUTERIVIAN (?)

JKB	"Intermediate Bowser Lake subdivision": Upper floodplain facies (JKBuf), channel sandstone and conglomerate; subordinate overbank sandstone, siltstone, shale, and marl; minor coal; Lower floodplain facies (JKBl), interfingering channel sandstone-conglomerate and overbank sandstone, siltstone, shale, marl and minor coal;

UPPER OXFORDIAN AND KIMMERIDGIAN

uJB	"Lower Bowser Lake subdivision": Deltaic front (intertidal) facies (uJBdf), interbedded channel sandstone and conglomerate, ripple and plane laminated sandstone, siltstone, shale, minor coal, thick shelled pelecypod beds, including *Ostrea*, worm burrows common

INTRUSIVE ROCKS

TERTIARY

EOCENE

TB	BABINE INTRUSIONS: microdiorite (TBd), rhyolite-quartz eye porphyry-breccia (TBr), undifferentiated (TB)

CRETACEOUS

LATE CRETACEOUS

LKB	BULKLEY INTRUSIONS: granodiorite, quartz diorite, quartz monzonite, hornblende porphyry, hornblende-quartz porphyry, undifferentiated

40	Bedding
	Fault (defined, approximate)
	Thrust fault
	Anticline
	Syncline
	Paleocurrent direction
● 63 B / 61 H	K/Ar age date: B-biotite, H-hornblende (C: from N.C. Carter, Ph.D. thesis, Univ. B.C., 1974. U: unpublished Univ. B.C. date, 1978)
	Geologic contact (defined, approximate)
	Approximate limit of exposure

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ROCHER DEBOULE PROPERTY

LEGEND FOR FIGURE 3

OMINECA M.D., B.C.

Work by :	N.T.S. : 93 M
Drawn by :	Date : OCT. 1987
	FIGURE

the northernmost part of the stock. Whether or not this is a variant of the main granodiorite mass or a separate associated intrusion is not known.

The structure of the Rocher Deboule stock is important in exploration on the property. The stock is clearly intrusive and the granodiorite cuts cleanly across the fold structure of the Hazelton Group with no apparent deformation of the older rocks. In general the granodiorite is neither foliated nor lineated.

Jointing throughout the granodiorite is pronounced, regular, and patterned and the contacts of the two domes and their intervening saddle are important in the distribution of these joints. In general there are three sets of joints, of which the two most prevalent include one parallel to the contact and one normal to the contact and making a horizontal trace on the contact surface. This second set is referred to as cross joints. The third and least developed set is radial, normal to the first two, and dips vertically.

Sutherland Brown suggests that the lack of foliation, the lack of evidence of intense forceful intrusion, and the fit of the pattern of the joints to the shape of the stock, indicate that the joints were caused by cooling contraction.

This stock is dated at 72 m.y. Richards includes it with the Bulkley Intrusions."

The principal other rock type within the property boundary are sandstones and siltstones of the Lower Bowser Lake Group described by Richards (1978) as representing a northerly prograding deltaic assemblage, the debris comprising principally of volcanic clasts. In the vicinity of the property, much of the Bowser sediments have undergone thermal metamorphism forming a biotite grade hornfels rim to the Rocher Deboule stock. Deformation of the Bowser sediments is related to major block faulting and the intrusion of the pluton. Block faulting is thought to have uplifted the whole Rocher Deboule Range, exposing the pluton to erosion, while preserving younger sediments in the valleys to the north and west (Richards, 1978). As a result of the intrusion of the Rocher Deboule stock, the sediments consistently dip to the west (see Figure 4).

Minor rock types include several types of dykes, all younger than the pluton, described by Woodcock (1987) as follows, from oldest to youngest:

a) Aplites and pegmatites throughout the pluton.
b) Granitoid dykes, including the Rocher Dyke in the Rocher Deboule Mine, which are of a Quartz Monzanite composition and may be as much as 30m wide.
c) Porphyritic andesite dykes.
d) Felsite dykes of aphanitic texture with rare phenocrysts of feldspar or quartz.
e) Late fine grained dark, often aphanitic biotite - Lamprophyres and basalts.

6.3 Mineralization

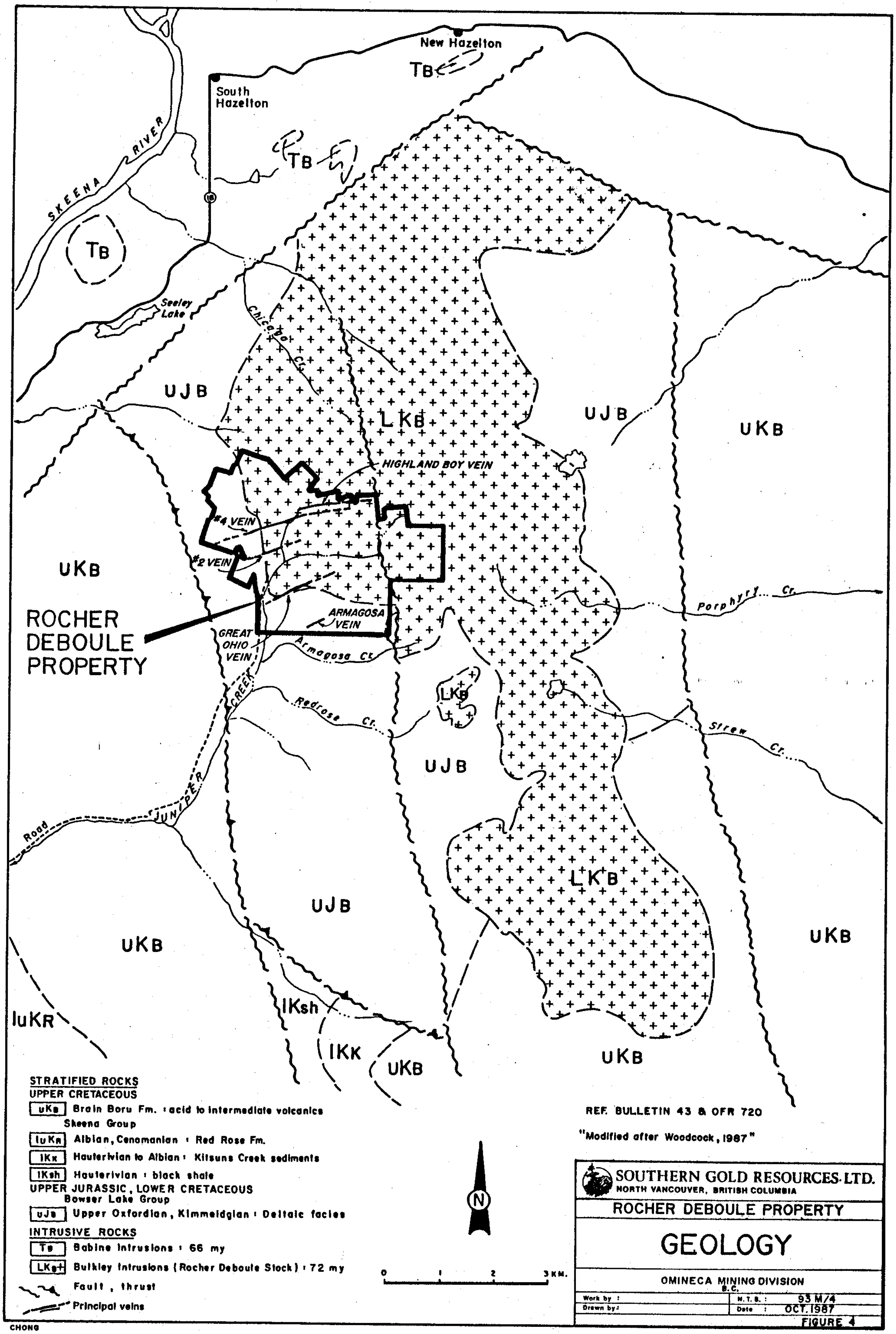
Individual prospects investigated during the 1987 field season will be described in more detail in following sections. The style of mineralization within the property is described in detail by Kindle (1954), Sutherland Brown (1960), and summarized by Woodcock (1987) in his report on this property.

In brief, all the mineral showings within the property boundaries comprise vein fillings of minor shear zones in close proximity to the margin of the Rocher Deboule stock. These shears closely parallel one set of the orthogonal joint pattern caused by the cooling of the stock. The veins all strike in a northeasterly to easterly direction and dip approximately 55° to the north. THe veins are developed over significant lengths of shear, perhaps up to 1500m on the Highland Boy, but within this economic widths of mineralization only occur over lengths of 30-75 metres. This is clearly illustrated by the stoping patterns of the #4 vein in the Rocher Deboule Mine.

Kindle (1954) identified three distinct phases of mineralization that are variously developed in the different veins. The oldest and most widespread, a pegmatitic phase, formed veins composed principally of dark massive hornblende and glossy quartz with minor feldspar, apatite, magnetite, scheelite, tourmaline, ferberite and molybdenite. This style predominates on the Highland Boy and Great Ohio veins and is locally well developed in the #2 and #4 veins of the Rocher Deboule Mine and at the Victoria Mine. Kindle suggested it was a very early stage of mineralization formed soon after cooling joints opened, probably related to shearing.

The second stage forms the main phase of sulphide mineralization including principally chalcopyrite (e.g. #4 vein) and pyrrhotite (e.g. Great Ohio) but also locally significant arsenopyrite and cobalt-nickel sulpharsenides (e.g. Victoria vein) and pyrite. It is thought these minerals replace the hornblende and possibly the quartz and may also fill cavities. The sulphide content is locally extremely variable, averaging 5-10% overall and ranging up to 80-90% over 0.5-1.0 metre. There may be some evidence for regional zoning of the sulphides from the interior of the pluton where pyrrhotite chalcopyrite dominate (e.g. the Great Ohio and eastern Highland Boy); to chalcopyrite and pyrite within the margins of the pluton (e.g. #4 vein), to sulpharsenides in the sediments outside the pluton (the Victoria vein). Precious metals are widely associated with the sulphides of this phase.

The third and final stage of mineralization is quite distinct from the earlier stages, cross cutting them and usually more locally developed. Mineralization consists of milky quartz with the principal sulphides being tetrahedrite, galena and pyrite. Also identified are sphalerite, chalcopyrite and the gangue minerals calcite and siderite. THe best example of this phase lies at the western end of the 1200 foot drift on the #2 vein of the Rocher Deboule Mine, resulting in much higher precious metal values, especially silver related to the tetrahedrite.


New Hazelton
South Hazelton
SKEENA RIVER
Seeley Lake
Chicago Cr.
UJB
LKB
UKB
TB
HIGHLAND BOY VEIN
#4 VEIN
#2 VEIN
ARMAGOSA VEIN
GREAT OHIO VEIN
Armagosa Cr.
Redrose Cr.
Porphyry Cr.
Strew Cr.
JUNIPER CREEK
Road
ROCHER DEBOULE PROPERTY
IKsh
IKK
luKR
STRATIFIED ROCKS
UPPER CRETACEOUS
uKB Brain Boru Fm. : acid to intermediate volcanics
Skeena Group
luKR Albian, Cenomanian : Red Rose Fm.
IKK Hauterivian to Albian : Kitsuns Creek sediments
IKsh Hauterivian : black shale
UPPER JURASSIC, LOWER CRETACEOUS
Bowser Lake Group
uJB Upper Oxfordian, Kimmeldgian : Deltaic facies
INTRUSIVE ROCKS
TB Babine Intrusions : 66 my
LKB Bulkley Intrusions (Rocher Deboule Stock) : 72 my
Fault, thrust
Principal veins
0 1 2 3 KM.
N
REF. BULLETIN 43 & OFR 720
"Modified after Woodcock, 1987"
SOUTHERN GOLD RESOURCES LTD.
NORTH VANCOUVER, BRITISH COLUMBIA
ROCHER DEBOULE PROPERTY
GEOLOGY
OMINECA MINING DIVISION
B.C.
Work by :
Drawn by:
N.T.S. : 93 M/4
Date : OCT. 1987
FIGURE 4
CHONG

All three phases can overlap and the most spectacular sections of vein are found where they do so, especially at the western and eastern ends of the #2 vein on the 1200' level and 950' levels respectively. Exploration for an economic deposit on the Rocher Deboule property should be directed first towards these areas.

7. 1987 EXPLORATION PROGRAM

Since this was Southern Gold Resources' first season of exploration on the property, the exploration program was of necessity broad based, evaluating the economic potential of the property as a whole. Hence all of the known mineral showings within the property boundaries were examined and evaluated to some extent. Most of the work was intended to be concentrated on the Rocher Deboule mine area - principally the #2 and #4 veins - where previous work had indicated significant potential for economic precious metal reserves. The 1987 program was designed to include geological, geochemical and geophysical evaluations of the various prospects but the terrain severely limited access to all but the main Rocher Deboule Mine area, except for cursory examinations of the other veins (see Photograph 1).

7.1 Access, Base Map

The Juniper Creek road was in very poor condition and required extensive rehabilitation to take it to a 4-wheel drive standard. A D6 Cat bulldozer was contracted in Smithers, B.C. and hauled to the start of the Juniper Creek road. A total of 83 hours were required to gain access to the old Rocher Deboule Mine site.

The majority of the portals were in fairly good condition, allowing access to some of the workings. The adits into the #4 vein were, however, in a dangerous condition due to numerous roof-falls and extensive stoping. The 950 foot level was in moderate condition, giving limited access to the #2 vein. The 1000 foot level was in good condition and completely accessible (see Photograph 2). It gave extensive access to the #2 vein for sampling. The portal of the 1200 foot level was collapsed and buried in the major slide. A JD550 backhoe/cat was contracted to reopen this portal, requiring 16.5 hours of work. Once open it gave access to all of this level, which contains extensive sections of the #2 vein. (See Figures 5 & 6.)

A 1:5,000 scale contoured base map was prepared by Eagle Mapping of Port Coquitlam, B.C. from provincial air photographs and an orthophoto composite was also prepared with contours scribed on for field orientation. These documents were filed as assessment work on 15th May 1987.

7.2 Rocher Deboule Mine Area

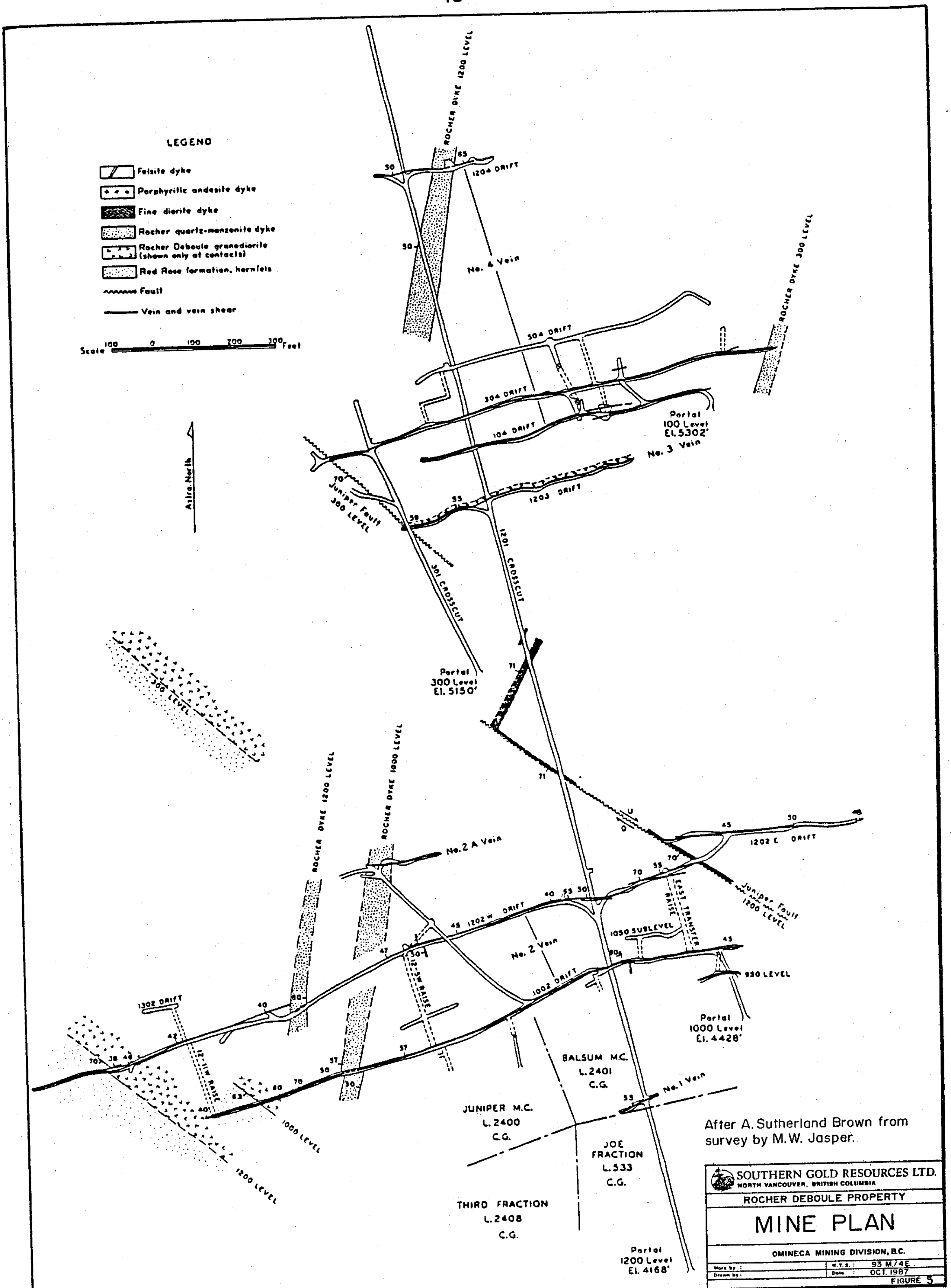
This was the principal area of activity during the 1987 field season.

7.2.1 Grid

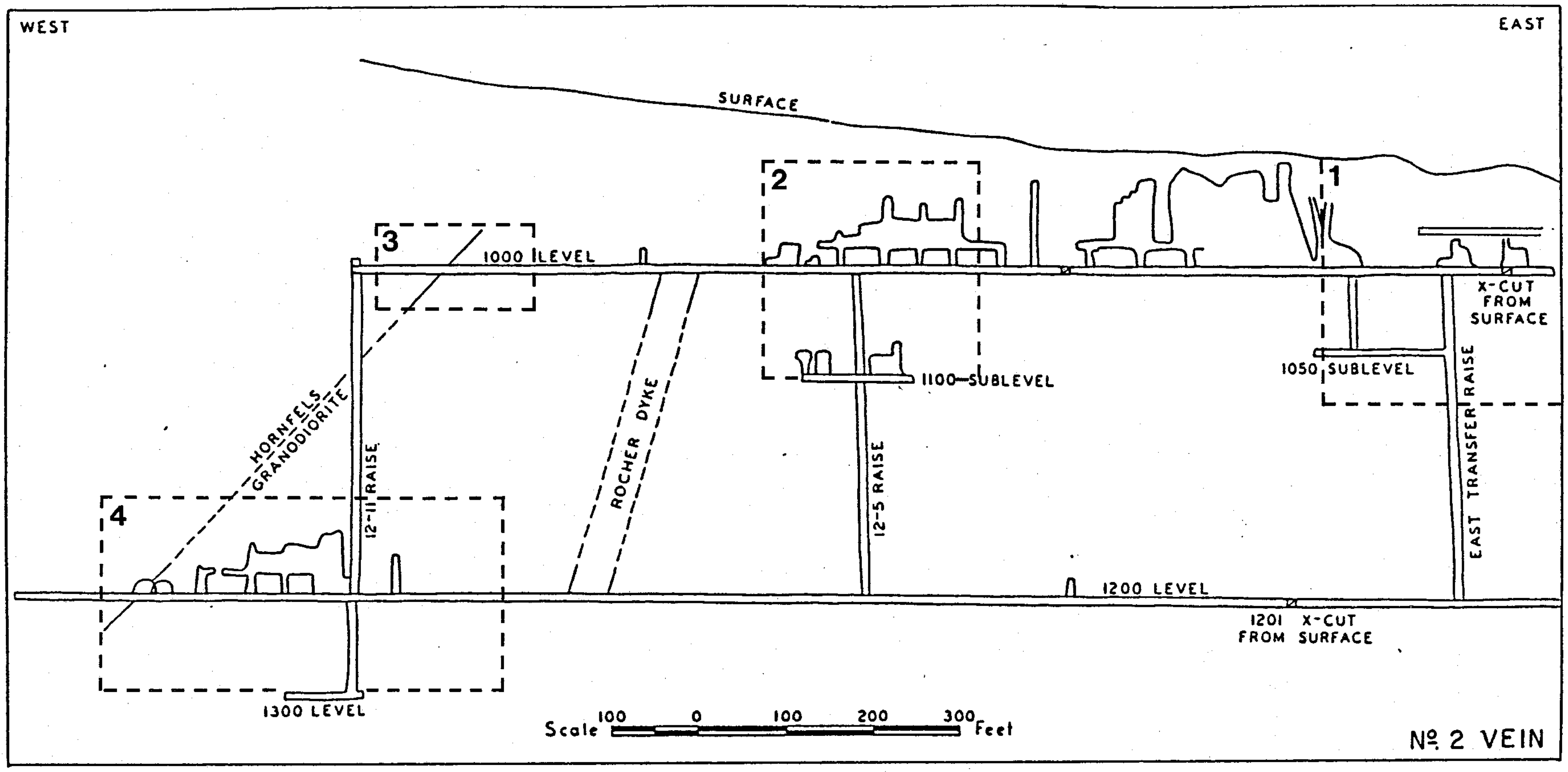
Once access was gained to the property, a grid was established over entire known and inferred extent of the #2 and #4 veins of the Rocher Deboule Mine site. The flagged grid was established utilizing hip chain and compass. The lines were placed at 100m intervals, slope distance. The lines were not cut. A total of 117.25 km of grid were emplaced by these methods.

Photograph 1: View of Mine Area

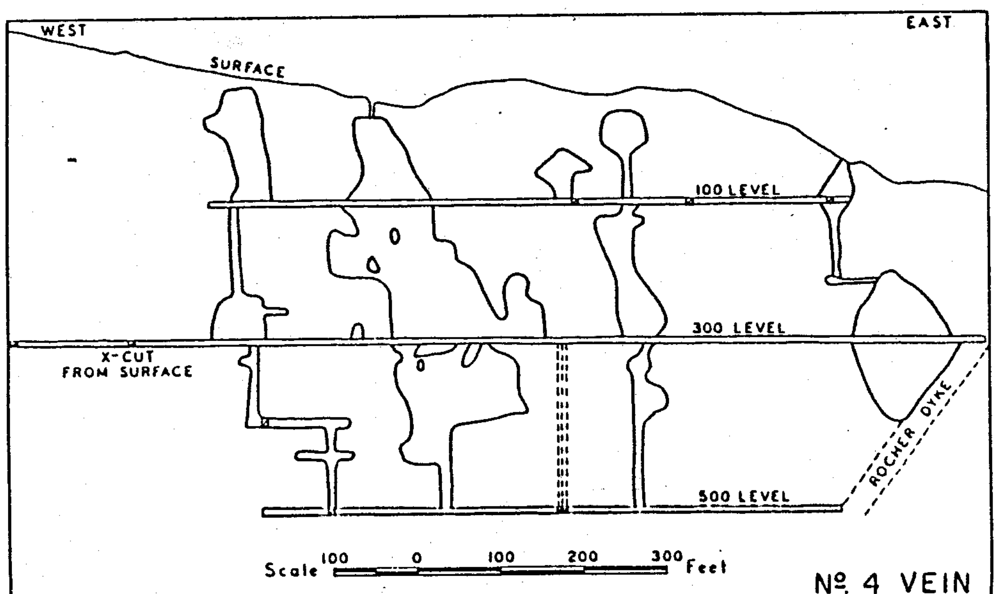
Photograph 2: 1000 foot Level Portal


LEGEND
Felsite dyke
Porphyritic andesite dyke
Fine diorite dyke
Rocher quartz-monzonite dyke
Rocher Deboule granodiorite (shown only at contacts)
Red Rose formation, hornfels
Fault
Vein and vein shear
Scale 100 0 100 200 300 Feet
Astro.North
ROCHER DYKE 1200 LEVEL
1204 DRIFT
No. 4 Vein
ROCHER DYKE 300 LEVEL
304 DRIFT
304 DRIFT
104 DRIFT
Portal 100 Level El. 5302'
No. 3 Vein
1203 DRIFT
Juniper Fault 300 LEVEL
1201 CROSSCUT
301 CROSSCUT
Portal 300 Level El. 5150'
300 LEVEL
ROCHER DYKE 1200 LEVEL
ROCHER DYKE 1000 LEVEL
No. 2 A Vein
1202 E DRIFT
Juniper Fault 1200 LEVEL
EAST TRANSFER RAISE
1202 W DRIFT
No. 2 Vein
1050 SUBLEVEL
950 LEVEL
1002 DRIFT
1302 DRIFT
Portal 1000 Level El. 4428'
BALSUM M.C. L.2401 C.G.
No. 1 Vein
JUNIPER M.C. L.2400 C.G.
1000 LEVEL
1200 LEVEL
JOE FRACTION L.533 C.G.
THIRD FRACTION L.2408 C.G.
Portal 1200 Level El. 4168'
After A. Sutherland Brown from survey by M.W. Jasper.
SOUTHERN GOLD RESOURCES LTD.
NORTH VANCOUVER, BRITISH COLUMBIA
ROCHER DEBOULE PROPERTY
MINE PLAN
OMINECA MINING DIVISION, B.C.
N.T.S.: 93 M/4E
Date: OCT. 1987
FIGURE 5

CHONG



Nº 2 VEIN



Nº 4 VEIN

After Bulletin 43, surveyed to Nov. 18, 1952 by M.W. Jasper.

SOUTHERN GOLD RESOURCES LTD.
NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE PROPERTY

MINE STOPE OUTLINES
No.2 & No.4 VEINS

OMINECA MINING DIVISION, B.C.

Work by :	N.T.S. : 93 M/4E
Drawn by :	Date : OCT. 1987
	FIGURE 6

7.2.2 Geology

The geology of the grid area was mapped by the author at a field scale of 1:5,000 using the established grid and the orthophoto base map for orientation. Detailed mapping was impeded by extensive coarse boulder talus over large areas of the grid. The results of this mapping are presented in Figure 7, plotted at a scale of 1:2,500.

Within the grid area, the eastern half is entirely granidiorite of the Bulkley Intrusions, forming well jointed bluffs and crags with extensive boulder trains down slope. Most of the outcrops at lower elevations are caused by the erosive action of slides and streams. The contact with Bowser sediments to the west is nowhere exposed, but can be defined to within a few metres by known outcrops. The veins within the grid area were relatively poorly exposed on surface, particularly the #2 vein. The majority of all exposures of the veins were in the vicinity of old workings (see Photograph 3). The #4 vein could be traced over 1300m from line 7+00W to 1+00E in old trenches and adits, though was only well exposed between lines 2+00W and 0+0W (see Photograph 4). A sharp topographic break allowed the vein to be traced well past line 3+00 East, but with no actual outcrop of the vein. A total of 19 rock chip and grab samples were collected from surface outcroppings of the #4 vein. Their locations are shown on Figure 7 and all samples described in Appendix 2. Table 3 below lists some of the more significant results. They indicate a locally significant precious metal content to the #4 vein.

TABLE 3: ROCK SAMPLE ASSAYS #4 VEIN

Sample #	Width (cm)	Cu (%)	Ag (ppm)	Au (OPT)
RD#17R	35	37,118	56.5	0.159
RD#18R	22	39,642	34.5	0.496
RD#19R	70	13,572	76.3	0.213
RD#101R	80	0.16%	.08 OPT	0.166
RD#21R	100	22,648	25.6	0.103
RD#37R	95	41,445	47.6	0.065

The #2 vein could only be traced from line 2+00 West to just east of the 950 foot adit on line 0+50E. Further west the vein would be buried under extensive ancient slide material and further east it would be buried in deep boulder talus. The lack of outcrop prevented extensive surface sampling and only three areas were sampled. These samples are located on Figure 7 and fully described in Appendix 2. Table 5 below summarizes these results.

Photograph 3: Outcropping of #4 Vein

Photograph 4: Surface Trace of #4 Vein

TABLE 4: ROCK SAMPLE ASSAYS #2 VEIN

Sample #	Width (cm)	Cu (%)	Ag (OPT)	Au (OPT)
RD#1-3R(Av)	145	5.56	0.62	0.454
RD#6R	30	2.92	2.18	0.059
RD#7R	56	0.98	6.38	0.008

None of the #1, #2a or #3 veins were exposed on surface.

7.2.3 Geophysics

Southern Gold Resources rented an Integrated Geophysical System (IGS) incorporating a VLF-EM unit and a proton magnetometer from Scintrex. This is a very compact unit comprising of a digital master console, a VLF-EM receiver and a magnetometer. The "integrated" aspect is electronic hook-up between all these units allowing push button control and digital recording of station and line number and results on the master consoles' memory. A base station magnetometer, portable computer and plotter completed the package. The two field assistants were trained in its use by the author and conducted the surveys of all of the grid lines. On each line total field magnetic readings were taken and in-phase and quadrature VLF-EM readings for each of the selected frequencies. The three stations selected were Hawaii, Annapolis and Seattle to give omni-directional coverage.

At the end of each day, the base station magnetometer and field unit were connected and the magnetic data corrected for diurnal variation. Then all the data was dumped onto the computer, allowing editing and outputting of profiles on a daily basis. All field data collected was presented to Trent Pezzot of GeoSci Data Analysis Ltd. of Richmond, B.C. for final completion and interpretation. The results of his report (Pezzot 1987) are quoted verbatim below:

> *"The magnetic data contains two distinct responses across the main survey grid. The general outline of intrusive stock is clearly indicated as a gradient from high magnetic intensities observed across the stock to lower values reflecting the country rock. Specific delineation of the surface expression of this contact can best be accomplished by using the isomagnetic lines as a guide between known contact positions.*
>
> *A number of small isolated magnetic lows are observed within the stock which likely reflect localized areas of increased fault activity. Some of these magnetic anomalies align to form a northwesterly trending zone which parallels the outline of the stock. These may be reflecting major fault activity along a series of southeasterly flowing drainage channels.*

Three outliers of high magnetic susceptibility materials are mapped along the perimeter of the larger stock. These are likely composed primarily of intrusive material but may be accumulations of magnetite or pyrrhotite mineralization.

Inphase, quadrature and field strength measurements of three VLF-EM stations were gathered during the course of this survey. The field strength intensities were relatively weak but consistent and reliable readings were obtained. Weak evidence of the outline of the Rocher Deboule stock was observed in the field strength data. A northwesterly trending zone of increased field strength values correlates with a magnetic trend across the intrusion and support a fault interpretation.

Alternating narrow bands of moderately conductive and resistive materials are aligned at 075° across the main survey grid. These trends appear to be comprised primarily of 100 to 200 metre long lenses which are most pronounced near the intrusive/sedimentary contact and normally extend into the intrusive mass. These electromagnetic anomalies are generated from surface or very near surface sources. These geophysical anomalies are probably related to the mineralized fault sets mapped along the contact.

Two 400 metre long lines were surveyed across the Armagosa grid to test a known vein structure. Both the magnetic and electromagnetic data indicate a geological contact near station 175N to 200N but no significant conductivity increase appears to be associated with it."

7.2.4 Talus/Soil Geochemistry

Due to the poor exposure it was decided to attempt geochemical sampling of the grid, despite the abundant talus cover and down hill creep on such steep slopes. On the western parts of the grid, mostly underlain by the Bowser sediments, soil and fine talus material was widely available for sampling. Further east, particularly on line 0+00, coverage was incomplete due to the abundance of coarse boulder trains. Despite this, the samplers were still able to collect fine material from small pockets between the boulders.

In total, 332 soil and/or talus fines were collected within the grid area. All samples were submitted to Acme Analytical Labs of Vancouver, B.C. for Induced Coupled Plasma analysis for 30 elements and also analyzed for gold by standard atomic absorption procedures for greater sensitivity. The results of this sampling program are selectively plotted on Figures 8-10 inclusive and the assay certificates are enclosed in Appendix 1. The value range for selected elements is shown below:

Table 5: Mine Area: Talus Geochemical Values

Element	Low	High
Au	1 ppb	2,350 ppb
Ag	1 ppm	64.2 ppm
As	7 ppm	1,854 ppm
Cu	11 ppm	6,156 ppm
Pb	3 ppm	1,363 ppm
Zn	15 ppm	3,375 ppm

The geochemical sampling was surprisingly effective at defining the known veins, suspected extension as well as outlining several new anomalies. Arsenic and gold proved to be the most effective elements for clearly defining vein structures, clearly outlining the #2 and #4 veins as well as indicating possible new veins. Silver and lead have more restricted dispersion patterns, principally around the old workings and higher grade sections of the veins. Both silver and lead indicate several other minor anomalies. Copper, while locally highly anomalous, shows widespread dispersion related to down slope mobility. However, the up slope edges of the anomalies clearly define the outcrop of the #4 vein, appear to define the #2 vein over a significantly greater strike length and also outlines anomalous areas approximately 100m south of the #2 vein and between the #2 and #4 veins. Zinc defines the vein structures quite clearly in the granidiorite in the eastern grid area, but a high background zinc level in the Bowser Sediments masks any anomalies.

7.2.5 Rock Geochemistry

Twenty-seven rock chip samples were collected on surface in the grid area. These were entirely collected from surface outcrops of the #2 and #4 veins, the only mineralization observed while mapping. All samples were submitted to Acme Analytical Labs of Vancouver, B.C. for ICP analysis and gold by fire assay. Due to the high base metal content, selected samples were resubmitted for copper, lead, zinc, Arsenic and silver by assay methods. The locations of the sample sites are indicated on the geology map (Figure 7) with a summary of the results. The assay certificates are enclosed in Appendix #1. All samples are described in detail in Appendix #2.

7.2.6 Underground Mapping & Sampling

A very limited program of underground sampling and reconnaissance mapping was undertaken by the author and his assistants, principally on the #2 vein (see Photograph 5). This was partly due to the greater degree of access, all of the #4 vein levels with any mineralization being in very poor condition, and partly because old sample data indicated some significant precious metal potential in unmined sections of the #2 vein. All samples taken were chipped channel samples.

Photograph 5: #2 Vein Underground

The 1200 foot and 1000 foot levels were in good to excellent condition over most of their lengths. The tunnels are large and free from roof falls due to the generally good condition of the timbers and the granitic wall rocks. The 950 foot level was in poorer condition but still accessible. All levels had good air circulation due to numerous interconnections with other levels via stopes and raises.

Table 6 below lists assays selected to show the range and variability of values in the various veins, particularly the #2 vein. None of the #1, #3 or the #4 returned values of any significance on the 1200 foot level, the best of the samples taken being listed here. The samples listed in Table 6 from the #2 vein on the 1200 foot level are a series of consecutive samples along approximately 100m of vein. The width weighted average of these 10 samples is 5.64% Cu, 16.79 OPT Ag and 0.821 OPT Au over an average width of 80 cm. Diluted to a mining width of 120 cm the weighted average is still 3.78% Cu, 11.25 OPT Ag and 0.550 OPT Au. These 10 samples also illustrate, however, the variability of the assay results and the poor correlation between any of copper, gold and silver.

The samples on the 1000 foot level of the #2 vein exhibit a similar variability of assay results and lack of correlation. For example, samples RU#2001 to RU#2004 are four consecutive samples over only a 25m length which show values varying considerably. Sampling on this level does confirm, however, that the two better sections of vein on this level are at the western and eastern ends of the 1000 foot drift. The importance of the eastern area are confirmed by sampling on the 950 foot level which returned significant copper-silver-gold values.

The results of these examinations and samplings are summarized on figures 11 & 12 and the assay certificates enclosed in Appendix 1. All samples are fully described in detail in Appendix 2.

TABLE 6: SUMMARY OF UNDERGROUND SAMPLE ASSAYS

Sample #	Vein	Level	Width (cm)	Cu %	Ag (OPT)	Au (OPT)
RU11	#1	1200'	100	1.28	1.30	0.011
RU201	#2	1200'	40	3.84	15.15	0.320
RU202	#2	1200'	127	2.19	18.13	0.290
RU203	#2	1200'	130	2.64	10.18	0.042
RU204	#2	1200'	70	2.10	4.54	0.076
RU21	#2	1200'	80	8.76	15.83	1.560
RU22	#2	1200'	73	10.93	30.60	0.722
RU23	#2	1200'	47	6.37	21.52	0.285
RU24	#2	1200'	65	12.91	41.43	3.825
RU25	#2	1200'	95	5.80	13.81	1.366
RU26	#2	1200'	70	5.55	4.48	0.355
RU32	#3	1200'	75	0.20	0.71	0.007
RU42	#4	1200'	75	0.02	0.05	0.001
RA17	#2	1000'	140	3.83	1.81	0.056
RA90	#2	1000'	100	1.43	4.80	0.059
RA20/30	#2	1000'	115	2.51	11.56	0.035
RA32	#2	1000'	60	5.19	1.30	0.038
RA101	#2	1000'	100	2.92	9.42	0.166
RWU75	#2	1000'	105	3.16	2.59	0.114
RA159	#2	1000'	110	4.24	2.43	0.066
RU2001	#2	1000'	121	5.73	40.85	0.034
RU2002	#2	1000'	87	1.26	1.85	0.032
RU2003	#2	1000'	135	5.51	47.73	2.070
RU2004	#2	1000'	160	0.88	1.95	0.032
R7	#2	950'	90	1.57	0.97	0.302
R8	#2	950'	77	2.21	0.87	0.026
R10	#2	950'	137	4.20	5.09	0.165
R11	#2	950'	153	7.61	1.82	0.256
R12	#2	950'	165	6.78	12.83	0.075

7.2.7 Summary of Results

Surface work has clearly defined five distinct zones of anomalous survey values (see Figures 15 & 16). Two are coincident with known veins while the three others may relate to one of the virtually unexplored #1, #2a and #3 veins. These anomalous zones, from north to south, are:

a) The #4 Vein. Survey coverage was only partial with lines 2+00W and 3+00W not extending far enough to intersect the #4 vein. This splits the results into two halves, the west and east. The east half is the most strongly anomalous and covers the area that has largely been mined out. Soil/Talus sampling returned anomalous Au, Cu, Pb and Ag and more locally anomalous values of

As and Zn. Geophysics detected a conductor on all three VLF-EM channels and a coincident magnetic anomaly. The combined anomaly exceeds 350m in length. The western area is less distinctly anomalous geochemically, principally in As and Cu and weakly anomalous in Pb. The geophysics, however, returned good conductors on all VLF-EM channels and a magnetic anomaly, over a length of 250-350m. If these two areas connect through the unsurveyed area, the total anomaly would have a length of 1000 metres.

b) Intermediate Anomaly. Two distinct areas, separated by over 100m of background values, are also seen in this trend. The eastern half is again the more strongly responsive, returning highly anomalous values in Au, Cu, As, Ag and Zn and slightly anomalous Pb values. Only the Annapolis VLF-EM frequency and magnetics indicate a conductor over a length of 100m in this area. This anomaly appears to correlate with the surface projection of the #3 vein found on the 1200' level. The western area, approximately along the indicated trend, is anomalous in Au, As and Cu and has a coincident magnetic high and Hawaii VLF-EM conductor uphill. The geochemistry indicates an anomaly 125m long. However, this western area is in close proximity to the rail track and may be a spurious anomaly.

c) Intermediate Anomaly. This is a very strong anomaly just north of the #2 vein again containing two halves. The eastern half is 250m long, highly anomalous in Au, Cu, Pb, As, Ag and Zn, strongly conductive on all three VLF-EM frequencies and a magnetic low lies slightly uphill. The western half is 125m long and again in fairly close proximity to the track, but is anomalous in Ag, Pb and As and weakly anomalous in Cu. Again this western anomaly could represent contamination and the magnetic low caused by the rail track. This anomaly correlates exactly with the surface projection of the #2a vein which was investigated on the 1,000 foot level and in a raise above that, three historical samples assayed 3.8% to 6.8% Cu.

d) #2 Vein. The #2 vein gives a strong anomaly of fairly limited extent, approximately 250 metres. Its westerly continuation could be the western half of 'c' above. However, the main anomaly lies over the area of most of the production and is strongly anomalous in Au, Cu, As and Ag. There is a coincident magnetic high and all three VLF-EM frequencies detected a conductor.

e) Southern Anomaly. This correlates closely with the surface projection of the #1 vein investigated on the 1,200 foot level. The geochemistry is strongly anomalous in Au, Cu and As over a distance of approximately 350m with more localized anomalous Ag. However, the geophysical anomalies are much more extensive, up to 1,000m overall, with a coincident magnetic low and all three frequency VLF-EM conductors. The geochemical expression may be more limited because of deep overburden in the southwestern area of the grid.

7.3 Highland Boy Area

The Highland Boy vein is shear related quartz-hornblende vein exposed fairly continuously over a distance of 1,000m, mostly over inaccessible crags in the northern part of the property. As described above (section 5.2) the vein has had minor exploration prior to 1920 and there are five adits of which only one is accessible today. The adit areas at both ends of the vein were examined and lines of talus samples were taken along both sides of the Juniper Creek Valley.

7.3.1 Geology

Very little of the Highland Boy area geology was open to examination. The upper slopes where outcrops are reported are precipitous crags that would require ropes and climbers to examine (see Photograph 6). The lower slopes are covered in deep talus slopes. Below a visible, but inaccessible, outcrop at the western end of the vein, numerous fragments of quartz-hornblende vein were found, locally with significant quantities of chalcopyrite, magnetite and pyrite. Similarly, at the eastern end, the vein float found in dumps consisted of quartz-hornblende vein with varying amounts of chalcopyrite, magnetite pyrite and, in this area, pyrrhotite. The 14 dump samples collected are fully described in Appendix 2 and the locations are indicated on figures 13 and 14. The samples indicate that the eastern end may be of interest, since three samples returned greater than 0.11 OPT Au. Selected samples are described below.

TABLE 7: HIGHLAND BOY; ROCK GEOCHEMISTRY

Sample #	Type	Cu (ppm)	Ag (ppm)	Au (OPT)
RD#28R	Chip	22,139	22.3	0.129
RD#29R	Float	64,525	20.9	0.119
RD#30R	Float	84,216	29.1	0.136
RD#32RA	Float	20,939	10.6	0.014
RD#33RA	Float	77,081	27.3	0.046

7.3.2 Talus Fines Geochemistry.

A total of 35 talus fines samples were collected at the base of the talus slopes on the northern side of the Juniper Creek Valley. A further 35 talus fines samples were collected along the Southern and eastern slopes of the Juniper Creek Valley. Some results of these samples are plotted on figures 13 & 14. The range in values are summarized following.

Photograph 6: Highland Boy Area

TABLE 8: HIGHLAND BOY; GEOCHEMICAL RESULTS

Element	'North' Line	'South' Line
Au	1 - 143 ppb	4 - 290 ppb
Ag	0.1 - 1.2 ppm	0.2 - 11.1 ppm
As	2 - 304 ppm	7 - 3997 ppm
Cu	41 - 440 ppm	45 - 1831 ppm
Pb	8 - 33 ppm	4 - 916 ppm
Zn	39 - 97 ppm	37 - 293 ppm

As can be seen from this table, the 'south' line is always more highly anomalous than the samples collected on the north side of the valley.

a) North Side. Two areas returned distinctly anomalous values on the north side of Juniper Creek; Stations 9+00N to 10+00N and 14+50N to 15+50N. These are downslope from sections of the Highland Boy vein and possible extensions of the #4 vein which is reported to continue further east than indicated on figures 13 & 14. In addition, four rock float samples were collected, two of which returned highly anomalous Cu, Ag, As and Au values. The samples are described in Appendix 2 and values summarized following.

TABLE 9: NORTH JUNIPER CREEK; FLOAT SAMPLE GEOCHEMISTRY

Sample #	Cu (ppm)	Ag (ppm)	As (ppm)	Au (OPT)
4+70N	82	1.8	151	0.001
5+40N	17,408	37.5	35,582	0.036
8+50N	23,761	5.9	392	0.103
8+75N	2	0.2	7	0.001

Sample 5+40N is a typical sample of Hornblende vein material. 8+50N is unusual, however, in that the mineralization consists of pyrite disseminated granidiorite. Since the sample was collected from close to one of the anomalous talus fines areas, it warrants further investigation.

b) South Side. The talus values are generally higher than on the north side of Juniper Creek as seen in Table 8. Three areas are indicated as being above this elevated background; 2+00S to 2+50S, 4+50S to 5+00S, 9+50S to 12+50S and 14+50S to 17+00S. The latter most area is the strongest of these anomalies. Six grabs of coarse talus were also taken and sent for analysis. The samples are fully described in Appendix 2 and the results summarized following.

TABLE 10: SOUTH JUNIPER CREEK; FLOAT SAMPLE GEOCHEMISTRY

Sample #	Cu (ppm)	Ag (ppm)	As (ppm)	Au (OPT)
1+75S	6,005	6.7	1,243	0.006
2+15S	12,429	5.1	32	0.020
3+80S	8,465	13.5	103	0.011
5+00S	9,616	4.0	91	0.015
7+00S	5,147	5.9	1,309	0.001
12+50S	323	0.4	389	0.001

All the samples, except 12+50S, are Hornblende-quartz-sulphide veins typical of the Rocher Deboule area but previously unreported on these slopes of the valley. The last sample is a cherty unit, possibly a rhyolite, that probably represents part of the Bowser Group.

7.3.3 Discussion of Results

The geology and talus fines geochemistry both indicate some interesting potential on the north side of Juniper Creek, probably related to the Highland Boy vein. Surface samples also indicate some significant gold potential. The south side of Juniper Creek should also be further prospected, to follow up on the talus fines anomalies.

7.4 Armagosa Area

This is the least well documented of the historical prospects, although work has been conducted, including driving a fairly large adit. Most of the working actually appear to occur just south of the property boundary, but strike on to the Leo Claim. This showing was investigated utilizing standard prospecting techniques, talus fines sampling and geophysics.

7.4.1 Geology.

Only half of one day was spent on the Armagosa area. The area is underlain by metasediments of the Bowser Formation, generally iron stained, but in fairly close proximity to the granidiorite contact, which should lie uphill, but was not observed by the author. There is a large slide area above the adit which has exposed several approximately east-west shear zones and hornblende-quartz veins. Several rock samples were collected from the veins, all of which returned very uninteresting values. Samples RD#40R-48R are described in Appendix 2.

7.4.2 Geophysics.

Two 400m IGS geophysical survey lines were run approximately north-south across the veined area, 100 metres apart. The results of this survey are fully described by the geophysicist (Pezzot, 1987). In brief, they detected the granidiorite contact at the north end of the grid and detected no significant conductors.

7.4.3 Talus Geochemistry.

A total of 38 talus fines/soil samples were collected along the north slopes of the Armagosa Creek Valley. The sample locations and values for Cu, Pb, Zn, Au, Ag and As are plotted on figures 13 & 14. All were sent to Acme Analytical Labs for analysis by ICP methods and for gold by atomic absorption. The results are included in Appendix 1. The range of values is indicated following.

TABLE 11: ARMAGOSA; TALUS FINES GEOCHEMISTRY

Element	Low (ppm)	High (ppm)
Cu	94	518
Pb	6	51
Zn	29	129
Au	1 ppb	52 ppb
Ag	0.1	1.7
As	117	572

The values do not display any distinct anomalies, although the majority of the elevated values lie between 5+00 and 10+00.

While collecting the talus fines, the field assistant also collected five grab samples of mineralized float found along the lines. Selected values are listed following.

TABLE 12: ARMAGOSA; FLOAT SAMPLE GEOCHEMISTRY

Sample #	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)	Au (ppb)
A#1	1,011	3,506	1,764	31.3	179	0.001
A#2	2,407	62	143	5.8	88	0.001
A#3	105	28	24	1.5	94	0.001
A#4	581	75	120	4.8	193	0.001
A#5	4,489	29	55	4.5	35,717	1.280

The only sample of real interest is A#5, a grab of quartz-hornblende breccia vein with 15-20% arsenopyrite and pyrite and assaying 1.3 OPT Au. This was collected at 16+70 on the talus line, down hill from the adit area and probably from the Armagosa vein, though much richer than anything seen on surface.

7.4.4 Discussion of Results.

The Armagosa vein area has not returned consistently good results that warrant extensive follow up. The only really interesting value came from the one float sample assaying over one ounce per ton gold. This may deserve a limited follow up program of prospecting to try and locate the source of the float and determine whether it lies on Southern Gold's property.

7.5 Victoria Vein

This is the only vein lying on the western slopes of the Rocher Deboule Range and is most easily accessed by helicopter. Because of the sub-lease controlling most of the more interesting veins on this part of the property (see section 4), and the extensive recent exploration (section 5.5), very little time was spent on this area.

7.5.1 Geology.

One day was spent prospecting and examining the showing and old workings, with access obtained by helicopter. The vein was seen to be fairly extensive, climbing up over precipitous ridge tops, in several adit levels and trenches (see Photograph 7). The vein was generally less than 1 metre in width and comprised of a massive hornblende vein with locally abundant arsenopyrite and cobalt-nickel sulpharsenides. Five samples were collected VIC #1-3 from surface trenches and VIC #4 & 5 from the main #1 Adit. All samples were sent to Acme Analytical Labs of Vancouver for analysis by assay methods for Mo, Cu, Pb, Zn, Ag, Ni, Co, As, W and Au by fire assay. The samples are fully described in Appendix 2 and the results summarized following.

TABLE 13: VICTORIA; ROCK ASSAYS

Sample #	Mo (%)	Ag (OPT)	Nil (%)	Co (%)	As (%)	Au (OPT)
VIC 1	.176	.02	.36	.75	7.07	1.230
VIC 2	.099	.07	.70	.55	9.38	1.340
VIC 3	.045	.05	.59	.37	7.48	0.511
VIC 4	.027	.01	.01	.01	.15	0.006
VIC 5	.001	.01	.01	.02	.06	0.008

Copper, lead, zinc and tungsten values were all 0.01%.

7.5.2 Discussion of Results.

The sample results confirmed the nature of the Victoria vein as a high grade gold vein with very high levels of arsenic and significant levels of cobalt. The gold values make this an attractive target but the high arsenic content probably makes the mineralization uneconomic, unless a buyer for arsenic concentrate can be found who will also pay for the precious metal content.

Photograph 7: Victoria Vein Area

7.6 Great Ohio Vein

This vein is located in close proximity to the granidiorite-sediment contact on the east side of Juniper Creek, opposite the mine site (see Figure 4). The actual vein is located on precipitous slopes and could only be reached at one point, at the base of some bluffs. An adit explores the vein but was partially flooded at the time of examination and therefore not entered (see Photograph 8).

7.6.1 Geology

The Great Ohio vein appears typical of the more easterly veins on the Rocher Deboule property. It comprises principally of Hornblende-quartz and sulphides. The sulphides are dominantly pyrrhotite, with lesser amounts of pyrite and chalcopyrite. Five samples were collected of vein material, the first four of float off the dump at the adit entrance and one chipped off the outcrop. These samples are summarized below and fully described in Appendix 2.

TABLE 14: GREAT OHIO; ROCK GEOCHEMISTRY

Sample #	Width	Cu (ppm)	Ag (ppm)	Au (ppb)
RD#8R	Float	2,204	3.2	0.001
RD#9R	Float	3,374	7.1	0.001
RD#10R	Float	7,270	26.8	0.011
RD#11R	Float	2,477	2.3	0.026
RD#12R	120cm	799	11.8	0.040

7.6.2 Discussion of Results

Surface examination of this vein has not yielded any encouraging results that warrant further work. Should an exploration program be conducted on other parts of the property it may be worth draining the adit and examining the vein underground.

Photograph 8: Great Ohio Area

8. CONCLUSIONS

The 1987 field season on the Rocher Deboule property has been successful in indicating a significant potential for precious metal vein deposits. This potential lies on dip and strike extensions of the well explored #2 and #4 veins and on the relatively unexplored #1, #2a and #3 veins (see Figures 15 & 16).

The #1 vein has a small stope developed on it off the 1,200 foot level. This suggests there may have been some mineralization of interest present, although this was not confirmed by Southern Gold. Geochemically and geophysically there is a strong, continuous anomaly coincident with the surface projection of this vein, suggesting significant potential.

On the #2 vein, four principal sections warrant further work, as indicated on Figure 6 (page 19). The potential of all four areas is indicated by historical sampling and was confirmed by Southern Gold's 1987 work. These blocks, as outlined, could contain 60-80,000 tons, though the total reserve potential could be much larger. For example, blocks 3 and 4 may connect and there is no sampling below the 1,050 foot sub-level in block 1 to limit its down dip extent until the 1,200 foot level.

The #2a vein was not investigated in 1987, on the 1,000 foot level, because of flooding. However, three historical samples and the strong geochemical and geophysical surface expression suggest the #2a vein may be more strongly developed up-dip.

The #3 "vein" is only a poorly mineralized aphanitic dyke on the 1,200 foot level. However, 140m up-dip is a well-developed geophysical and geochemical anomaly that warrants further investigation.

On the #4 vein, the areas of the strongest geophysical/geochemical response have largely been mined out. However, a significant strike extension is indicated by geophysics and surface mapping both to the east and west and warrant further investigation on a low priority.

In other areas, the Highland Boy vein certainly merits further investigation after three assays of dump material returned in excess of 0.1 OPT Au. The Armagosa and Great Ohio veins are not high priority targets. Talus geochemistry also indicated some areas of interest on the south side of Juniper Creek that should be further prospected.

9. RECOMMENDATIONS

Based on the 1987 exploration program and taking into consideration the historical data, an order of priority can be placed on the targets. In decreasing order of importance, they are:

Drilling	Prospecting
#2 Vein	Highland Boy vein
#2a Vein	South Juniper Creek
#1 Vein	Armagosa Vein
#3 Vein	Great Ohio Vein
#4 Vein	

Two approaches are available to drill the veins; conventional surface drilling or a program of underground rehabilitation and drilling. The former approach is significantly less expensive and would allow testing of several different veins without much impact on costs. However, the underground approach would permit much more detailed evaluation of the principal target, the #2 vein, and give the long term benefit of providing permanent access for later exploration and for development. The two approaches are listed below, based on discussions with contractors.

SURFACE		UNDERGROUND	
Mob/Demob	$10,000	Mob/Demob	$10,000
Roads/Cat trails	$22,000	Roads, Portals	$15,000
Drilling (4,400 ft)	$132,000	Drilling (3,000 ft)	$60,000
Helicopter (40 hrs)	$20,000	Portal	$20,000
Assays	$5,000	Assays	$5,000
Geology, Assistants	$25,000	Geology, Assistants	$30,000
Camp	$8,000	Camp	$10,000
Report	$5,000	Report	$5,000
	$227,000	Rehab (1,500 ft)	$60,000
			$340,000

The author favors the underground approach if sufficient financing is available. This approach only tests and, if successful, delineates reserves in the four areas of the #2 vein defined above (section 8.), leaving the other veins to be explored at a future date. The surface program results in four veins tested with 2-3 holes each, without drilling off any reserves.

10. STATEMENT OF EXPENSES

1. Geophysics	
Equipment: 22.77 days @ $170/day =	$3,870.37
Interpretation and Report =	$2,401.82
	$6,272.19
2. Geochemistry	
Supplies (sample bags, etc.)	$349.80
457 Soil/Talus - Preparations @ $0.75 =	$342.75
- ICP @ $6.00 =	$2,742.00
- Au by AA @ $4.25 =	$1,942.25
150 Rocks - Preparation @ $3.00 =	$450.00
105 Rocks - ICP @ $6.00 =	$630.00
105 Rocks - Au by AA @ $4.25 =	$446.25
99 Rocks - Au by FA @ $8.25 =	$816.75
103 Rocks - Cu, Pb, Zn, Ag, As Assay @ $18.75 =	$1,931.25
5 Rocks - Mo, Cu, Pb, Zn, W, Ag, Ni, Co, As Assay @ $20.00 =	$100.00
11 Rocks - Pt, Pd, Rh by FA-MS @ $11.36 =	$124.96
Transport =	$262.17
Computer Plotting =	$240.00
	$10,378.18
3. Transportation	
Air tickets =	$371.40
Helicopter =	$856.50
Truck 1 month @ $1,000 =	$1,000.00
	$2,227.90
4. Physical Work	
Access - D6 83 hours @ $80 =	$6,640.00
Transport =	$325.00
Open Portals - JD550 16.5 hours @ $65.00 =	$1072.50
Transport =	$454.66
	$8,492.16
5. Base Maps 1:5,000 Scale =	$5,668.00
6. Geological	
S.P. Quin (Geologist) 22 days @ $300/day =	$6,600.00
J. Green (Assistant) 24 days @ $150/day =	$3,600.00
P. Mackenzie (Assistant) 22 days @ $150/day =	$3,300.00
Camp/Support =	$2,797.85
Supplies =	$1,627.68
	$17,925.53
7. Report	
Reproduction =	$299.81
Drafting 97.25 hrs @ $22 =	$2,139.50
Supplies =	$270.45
S.P. Quin 10 days @ $300.00 =	$3,000.00
	$5,709.76
Sub Total	$56,673.72
Administration and Overhead @ 10%	$5,667.37
TOTAL EXPENDITURES	$62,341.09

11. REFERENCES

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Woodcock, J.R., 1987; Rocher Deboule Property, Company report for Southern Gold Resources Ltd.

12. STATEMENT OF QUALIFICATIONS

I, Stephen P. Quin, do hereby certify that:

1. *I am a mining geologist with business address at #220 - 145 Chadwick Court, North Vancouver, B.C., V7M 3K1.*

2. *I have a Bachelor of Science (Honours) Degree in Mining Geology from the Royal School of Mines in London, England. I am a member of several geological associations.*

3. *I have worked in mineral exploration since 1981. I have worked in various parts of British Columbia, Europe and the western United States of America.*

4. *I have based my report on an extensive study of the published data available on the property and on approximately one month spent on the property as detailed in this report.*

5. *As of August 1986 I have been a Director, Vice-President and Corporate Secretary and a major shareholder of Southern Gold Resources Ltd., a private, non-reporting resource company registered in the Province of British Columbia.*

6. *Between 1981 and 1986 I was a project geologist with Imperial Metals Corporation of Vancouver, British Columbia.*

Signed in North Vancouver this 9th day of November, 1987.

Stephen P. Quin, B.Sc., A.R.S.M.

APPENDIX 1

ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES   852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6   PHONE 253-3158   DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOILS   AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 20 1987   DATE REPORT MAILED: Aug 3/87   ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

SOUTHERN GOLD PROJECT-RD   File # 87-2565   Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB-L8W 5+00N	18	210	24	108	.1	44	19	858	5.80	401	5	ND	1	16	1	5	2	72	.10	.118	13	64	.55	80	.05	3	3.32	.01	.10	2	10
RB-L8W 4+75N	6	62	16	77	.2	15	13	2412	3.47	79	5	ND	1	26	2	2	2	49	.14	.134	7	21	.22	94	.02	4	2.32	.01	.08	1	11
RB-L8W 4+50N	3	37	18	44	.1	11	4	372	3.03	39	5	ND	1	14	1	2	2	41	.05	.106	7	17	.20	62	.02	3	1.79	.01	.06	1	3
RB-L8W 4+25N	3	40	9	50	.2	11	5	290	3.68	34	5	ND	1	10	1	4	2	57	.05	.103	7	18	.17	54	.01	2	1.95	.01	.06	1	4
RB-L8W 4+00N	4	105	20	98	.1	24	13	1145	5.10	50	5	ND	1	12	1	5	2	55	.04	.126	6	26	.37	76	.02	3	2.56	.01	.09	1	6
RB-L8W 3+75N	4	96	22	124	.1	26	16	1279	5.62	48	5	ND	1	13	1	3	3	61	.07	.092	8	29	.44	74	.03	4	2.83	.01	.11	1	4
RB-L8W 3+50N	9	150	40	141	.1	25	53	9785	5.10	93	6	ND	1	13	1	2	2	42	.04	.150	9	19	.37	152	.01	4	2.65	.01	.08	1	5
RB-L8W 3+25N	4	115	25	134	.1	29	19	1549	5.54	51	5	ND	1	27	1	4	2	61	.11	.100	8	29	.64	94	.06	4	3.19	.01	.18	1	13
RB-L8W 3+00N	3	68	26	123	.1	28	17	822	3.89	38	5	ND	2	82	1	5	2	44	.15	.094	7	23	.55	217	.03	4	4.67	.01	.11	1	4
RB-L8W 2+75N	3	135	23	141	.1	25	16	871	4.75	59	5	ND	1	17	1	3	2	55	.10	.116	7	24	.47	93	.03	3	3.03	.01	.14	1	8
RB-L8W 2+50N	2	64	22	123	.1	18	10	748	5.68	42	5	ND	1	16	1	3	2	56	.06	.111	6	19	.37	76	.03	4	3.17	.01	.11	1	1
RB-L8W 2+25N	2	80	20	109	.1	20	11	673	5.06	68	5	ND	1	15	1	4	2	50	.06	.113	6	20	.38	72	.03	2	3.37	.01	.12	1	2
RB-L8W 2+00N	3	61	13	67	.2	12	7	502	4.66	114	5	ND	1	11	1	2	2	48	.04	.123	7	18	.24	49	.02	2	2.60	.01	.07	1	4
RB-L8W 1+75N	2	62	15	75	.1	14	10	752	4.06	108	5	ND	1	13	1	2	3	51	.04	.121	10	18	.31	62	.02	3	2.41	.01	.10	1	4
RB-L8W 1+50N	3	103	23	110	.3	20	22	1442	5.23	307	5	ND	1	14	1	3	2	52	.06	.115	8	20	.42	72	.02	4	3.04	.01	.09	1	2
RB-L8W 1+25N	3	106	17	94	.1	17	13	415	5.83	79	5	ND	1	24	1	4	2	89	.11	.061	6	23	1.04	84	.16	4	3.69	.02	.22	1	1
RB-L8W 1+00N	3	93	16	115	.2	19	13	920	4.63	89	5	ND	1	20	1	3	2	60	.09	.110	9	23	.49	76	.04	4	2.99	.01	.10	7	7
RB-L8W 0+75N	4	82	19	98	.1	17	14	1038	4.92	76	5	ND	1	19	1	6	2	63	.08	.106	9	25	.42	85	.03	3	2.84	.01	.12	1	1
RB-L8W 0+50N	2	66	17	56	.3	11	6	306	4.09	68	5	ND	1	16	1	2	2	59	.08	.112	7	20	.37	64	.03	3	2.96	.01	.07	1	1
RB-L8W 0+25N	3	62	15	91	.1	15	8	595	4.92	95	5	ND	1	17	2	6	2	64	.08	.096	9	26	.44	69	.04	4	3.35	.01	.08	1	1
RB-L8W 0+00N	2	102	14	106	.9	15	9	833	4.24	87	5	ND	1	26	1	2	5	64	.11	.106	8	23	.46	90	.05	2	2.95	.01	.09	1	2
RB-L8W 0+25S	3	75	9	78	.2	14	7	441	5.22	60	5	ND	1	17	1	4	2	61	.06	.086	8	24	.41	59	.03	3	3.38	.01	.06	1	1
RB-L8W 0+50S	3	90	17	121	.1	16	18	1014	6.01	145	5	ND	1	10	1	5	2	52	.03	.153	5	16	.46	144	.01	2	4.74	.01	.21	1	1
RB-L8W 0+75S	2	36	15	57	.1	10	5	285	4.22	58	5	ND	1	13	1	5	2	56	.04	.079	8	17	.25	55	.03	3	2.74	.01	.06	1	1
RB-L8W 1+00S	2	55	11	83	.2	15	9	481	5.13	72	5	ND	1	13	1	3	3	53	.06	.121	6	22	.39	94	.02	3	3.15	.01	.09	2	1
RB-L8W 1+25S	1	53	15	82	.3	15	7	355	4.03	69	5	ND	1	15	1	5	3	48	.07	.094	6	20	.38	76	.02	2	2.95	.01	.07	1	30
RB-L8W 1+50S	1	59	11	105	.3	18	9	361	3.82	82	5	ND	1	12	1	5	2	45	.06	.088	6	20	.42	59	.02	3	3.11	.01	.07	1	1
RB-L8W 1+75S	1	68	82	202	5.5	15	8	270	4.11	405	5	ND	2	17	1	34	2	40	.08	.112	7	16	.34	74	.02	4	4.37	.01	.07	1	6
RB-L8W 2+00S	2	33	23	77	1.4	10	4	383	4.65	72	5	ND	1	16	1	4	2	45	.05	.132	7	14	.18	58	.03	3	3.56	.01	.05	1	1
RB-L7W 5+00N	6	185	27	150	.3	47	27	1006	4.98	150	5	ND	1	25	1	5	2	60	.09	.093	10	36	.64	105	.03	4	2.77	.01	.09	1	5
RB-L7W 4+75N	8	134	14	98	.1	26	13	650	4.03	161	5	ND	1	21	1	4	4	54	.05	.117	9	38	.37	71	.02	4	2.67	.02	.06	1	3
RB-L7W 4+50N	8	145	37	140	.2	31	20	982	4.52	188	5	ND	1	25	1	4	4	55	.06	.144	8	32	.44	81	.02	2	2.77	.01	.08	1	10
RB-L7W 4+25N	14	236	26	126	.4	37	20	706	4.91	210	5	ND	1	29	1	7	3	58	.09	.142	9	36	.51	97	.02	4	2.80	.01	.10	1	8
RB-L7W 4+00N	7	240	33	174	.2	42	24	901	4.56	185	5	ND	1	29	1	5	2	58	.12	.132	10	34	.58	98	.02	3	2.78	.01	.09	1	1
RB-L7W 3+75N	5	84	18	103	.1	18	10	900	4.37	91	5	ND	1	16	1	5	2	51	.05	.120	10	22	.33	65	.02	5	2.31	.02	.07	1	2
RB-L7W 3+50N	5	89	13	90	.1	16	11	1017	4.60	88	5	ND	1	17	1	3	3	55	.05	.156	8	24	.29	69	.02	2	2.46	.01	.07	1	3
STD C/AU-S	18	57	37	134	7.3	74	30	996	3.83	42	19	8	33	49	17	15	22	59	.43	.094	41	60	.87	179	.09	35	1.81	.06	.14	12	49

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB-L7W 3+25N	6	47	15	90	.4	11	8	870	4.79	57	5	ND	1	14	2	2	2	61	.08	.126	7	18	.17	68	.02	5	1.75	.01	.05	1	63
RB-L7W 3+00N	5	49	12	84	.3	13	8	869	5.14	61	5	ND	1	17	1	2	2	56	.07	.140	7	22	.20	56	.01	6	2.26	.01	.05	1	6
RB-L7W 2+75N	4	61	12	74	.4	13	7	1207	4.31	50	5	ND	1	13	1	3	3	57	.04	.141	7	21	.23	62	.02	6	2.11	.01	.07	1	5
RB-L7W 2+50N	3	151	19	104	.4	24	18	1894	4.45	71	5	ND	1	15	1	2	2	48	.07	.119	7	22	.45	85	.02	5	2.64	.01	.16	1	31
RB-L7W 2+25N	2	93	17	93	.3	19	15	1211	4.16	48	5	ND	1	14	1	2	2	49	.06	.137	7	20	.38	75	.02	7	2.63	.01	.11	1	8
RB-L7W 2+00N	2	134	24	122	.4	21	21	1029	4.80	113	5	ND	1	23	1	2	2	56	.11	.160	6	20	.49	137	.03	6	3.40	.01	.26	2	18
RB-L7W 1+75N	2	171	19	107	.4	22	16	898	4.97	52	5	ND	1	11	1	2	2	50	.06	.117	12	17	.48	96	.02	5	3.08	.01	.15	1	51
RB-L7W 1+50N	4	81	17	85	.4	14	10	988	5.21	50	5	ND	1	17	1	2	2	55	.08	.147	8	19	.31	99	.02	7	2.76	.01	.11	1	10
RB-L7W 1+25N	3	98	15	103	.7	15	12	1268	5.05	54	5	ND	1	34	1	3	2	44	.29	.210	5	15	.32	99	.01	7	2.61	.01	.12	2	9
RB-L7W 1+00N	2	126	17	118	.6	21	19	1316	4.84	331	5	ND	1	14	1	2	2	52	.08	.111	7	18	.46	93	.03	6	2.50	.01	.13	1	15
RB-L7W 0+75N	3	52	24	85	.9	10	14	2102	7.50	130	5	ND	1	14	2	2	2	51	.09	.243	4	13	.18	70	.01	10	2.08	.01	.09	1	3
RB-L7W 0+50N	2	133	12	73	.5	14	11	609	3.25	67	5	ND	1	14	1	2	2	36	.08	.090	5	14	.36	54	.03	4	2.29	.01	.07	1	10
RB-L7W 0+25N	3	112	16	94	.6	18	9	539	4.83	93	5	ND	1	22	1	2	2	53	.11	.093	7	25	.56	88	.05	7	3.88	.01	.10	1	12
RB-L7W 0+00N	2	33	4	33	.5	5	3	224	1.87	42	5	ND	1	18	1	2	2	44	.06	.107	5	9	.10	73	.01	2	1.28	.01	.06	1	16
RB-L7W 0+25S	4	66	12	92	.6	14	7	436	4.43	66	5	ND	1	19	1	2	2	56	.07	.090	7	23	.40	86	.03	6	3.46	.01	.08	1	7
RB-L7W 0+50S	3	41	20	66	.7	8	5	232	5.69	88	5	ND	1	16	2	3	2	77	.03	.089	6	17	.21	84	.02	7	2.30	.01	.07	1	2
RB-L7W 0+75S	3	44	13	70	.6	11	7	374	5.64	100	5	ND	1	11	2	3	2	55	.03	.121	6	17	.28	70	.02	8	3.07	.01	.07	1	2
RB-L7W 1+00S	4	35	17	66	.6	7	5	480	5.79	66	5	ND	1	16	1	4	2	59	.06	.151	5	13	.14	52	.01	7	2.47	.01	.07	1	1
RB-L7W 1+25S	3	50	16	91	1.0	11	7	1045	4.21	50	5	ND	1	16	1	2	2	51	.05	.129	7	16	.26	60	.03	6	2.99	.01	.08	1	4
RB-L7W 1+50S	3	32	16	49	.6	6	4	381	3.46	59	5	ND	1	14	1	3	3	56	.03	.116	7	12	.13	48	.01	5	2.26	.01	.06	2	8
RB-L7W 1+75S	3	28	11	47	.3	7	3	160	2.85	59	5	ND	1	20	1	2	3	53	.03	.064	9	12	.13	52	.02	3	1.84	.01	.04	2	4
RB-L7W 2+00S	3	36	74	84	3.5	9	5	229	4.87	141	5	ND	1	12	1	18	2	53	.03	.091	6	15	.21	46	.02	6	2.90	.01	.04	2	2
RB-L6W 5+00N	15	182	19	95	.8	32	17	867	4.20	168	5	ND	1	24	1	2	3	61	.12	.114	11	33	.50	88	.03	7	2.39	.01	.10	2	13
RB-L6W 4+75N	7	109	16	95	.4	30	14	973	3.75	69	5	ND	1	33	2	2	2	56	.13	.087	8	29	.55	92	.05	9	2.47	.01	.10	2	28
RB-L6W 4+50N	6	154	15	108	.3	36	19	1109	4.04	67	5	ND	1	25	1	2	2	62	.12	.067	10	33	.67	99	.07	6	2.69	.01	.11	1	7
RB-L6W 4+25N	3	125	15	97	.4	35	16	1278	3.82	46	5	ND	1	20	1	2	2	58	.10	.097	8	31	.58	101	.03	7	2.75	.01	.08	1	8
RB-L6W 4+00N	2	127	16	99	.4	32	13	828	3.75	46	5	ND	1	19	1	3	2	57	.07	.112	7	29	.50	95	.03	5	2.84	.01	.09	1	15
RB-L6W 3+75N	4	196	16	116	.3	37	21	1177	4.17	119	5	ND	1	16	1	3	2	60	.08	.098	7	32	.55	87	.03	6	2.74	.01	.10	1	12
RB-L6W 3+50N	7	194	16	103	.2	35	26	1146	4.14	127	5	ND	2	17	1	2	2	58	.12	.074	8	30	.56	115	.04	5	2.71	.01	.13	1	18
RB-L6W 3+25N	3	200	20	157	.3	35	31	2070	4.97	109	5	ND	1	24	1	2	2	60	.07	.088	7	25	.58	151	.04	7	3.69	.01	.25	1	4
RB-L6W 3+00N	4	58	12	103	.6	13	10	1749	5.66	52	5	ND	1	19	1	3	2	53	.11	.141	6	17	.25	77	.01	8	2.33	.01	.07	1	6
RB-L6W 2+75N	4	43	8	83	.5	13	6	852	3.94	46	5	ND	1	14	1	2	2	49	.05	.122	6	18	.20	75	.01	4	2.18	.01	.06	1	4
RB-L6W 2+50N	7	72	21	105	1.3	17	13	2448	7.13	69	5	ND	1	20	1	2	2	55	.09	.273	6	23	.21	87	.02	10	2.95	.01	.07	1	3
RB-L6W 2+25N	4	111	288	163	6.3	22	16	1585	5.38	237	5	ND	1	14	3	104	2	54	.06	.138	6	19	.39	88	.02	7	3.05	.01	.15	1	12
RB-L6W 2+00N	4	92	42	120	1.4	19	15	1525	5.56	210	5	ND	1	15	1	12	2	55	.04	.140	6	21	.33	89	.02	8	3.01	.01	.13	1	10
RB-L6W 1+75N	6	151	22	122	.5	26	22	1435	5.41	107	5	ND	1	16	1	3	2	60	.05	.095	7	25	.50	97	.03	6	3.07	.01	.16	1	5
STD C/AU-S	19	59	37	132	7.7	73	29	986	3.75	41	18	7	33	48	17	17	21	59	.42	.092	40	59	.85	176	.09	35	1.80	.06	.14	13	48

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB-L6W 1+50N	2	78	10	91	.4	13	9	611	4.27	46	5	ND	1	12	1	2	2	46	.07	.138	8	17	.31	82	.02	3	3.37	.01	.10	1	2
RB-L6W 1+25N	6	66	14	68	.5	9	10	1744	6.29	59	5	ND	1	16	1	2	2	68	.05	.162	6	12	.12	73	.01	5	1.75	.01	.07	1	1
RB-L6W 1+00N	3	157	16	104	.2	17	15	933	4.45	73	5	ND	1	12	1	2	2	54	.05	.116	8	16	.39	86	.03	6	2.47	.01	.14	1	1
RB-L6W 0+75N	3	138	27	124	.4	20	20	932	4.83	240	5	ND	1	16	1	5	2	60	.08	.080	8	20	.57	87	.05	4	3.07	.01	.17	1	1
RB-L6W 0+50N	3	121	15	107	1.4	17	12	664	4.50	166	5	ND	1	15	1	2	2	55	.09	.130	7	21	.47	75	.04	6	3.03	.02	.12	1	2
RB-L6W 0+25N	5	85	15	93	1.3	15	12	1058	5.90	130	5	ND	1	17	1	2	2	56	.10	.202	6	21	.41	81	.03	6	3.06	.02	.12	1	6
RB-L6W 0+00N	5	84	13	96	.7	14	9	985	4.86	101	5	ND	1	15	1	2	2	62	.05	.151	8	23	.39	76	.04	6	2.79	.01	.11	1	4
RB-L6W 0+25S	4	77	18	101	.5	16	8	479	4.25	77	5	ND	1	16	1	2	2	60	.07	.165	7	26	.45	81	.04	7	2.99	.01	.11	1	1
RB-L6W 0+50S	5	85	21	110	.7	17	11	1613	4.04	75	5	ND	1	21	1	2	3	59	.09	.197	8	24	.46	99	.04	5	2.97	.01	.13	1	4
RB-L6W 0+75S	4	45	19	64	.7	9	5	271	4.69	73	5	ND	1	12	1	2	3	62	.03	.085	7	18	.22	54	.02	7	2.75	.01	.05	1	20
RB-L6W 1+00S	4	36	12	65	1.0	10	5	335	4.63	62	5	ND	1	13	1	2	3	63	.04	.092	6	17	.22	52	.03	6	2.42	.01	.04	1	5
RB-L6W 1+25S	4	18	12	30	.3	4	2	103	2.97	42	5	ND	1	12	1	2	2	59	.03	.036	9	10	.10	48	.03	4	1.43	.01	.05	1	2
RB-L6W 1+50S	4	38	19	59	.4	9	5	184	4.54	89	5	ND	1	11	1	2	2	75	.03	.052	8	18	.21	60	.05	6	1.83	.01	.05	1	1
RB-L6W 1+75S	10	56	22	68	.2	9	5	434	9.38	62	5	ND	1	14	1	2	2	86	.04	.097	6	20	.20	44	.07	7	2.89	.01	.06	1	4
RB-L6W 2+00S	10	32	22	75	.2	9	5	436	9.16	75	5	ND	1	10	1	2	2	79	.03	.105	7	20	.19	45	.04	7	3.00	.01	.04	2	3
RB-L5W 5+00N	30	401	26	93	.8	37	22	588	4.56	1575	7	ND	2	20	1	2	2	75	.13	.140	10	28	.52	126	.07	6	2.63	.02	.15	15	28
RB-L5W 4+75N	8	89	16	60	.8	25	8	710	3.12	161	5	ND	1	14	1	2	3	73	.10	.148	8	41	.36	98	.04	5	2.76	.01	.13	1	3
RB-L5W 4+50N	10	158	16	93	.2	31	16	823	3.39	136	5	ND	1	17	1	2	2	58	.12	.090	9	30	.52	88	.05	6	2.26	.01	.09	2	39
RB-L5W 4+25N	8	164	15	96	.4	33	15	811	3.73	107	5	ND	1	16	1	2	2	63	.11	.085	12	31	.54	86	.05	6	2.38	.01	.09	2	6
RB-L5W 4+00N	7	95	19	88	.4	24	14	1205	3.82	68	5	ND	1	16	1	2	3	56	.09	.161	7	27	.37	106	.03	7	3.07	.02	.09	2	5
RB-L5W 3+75N	5	118	13	95	.4	32	16	942	4.06	62	5	ND	1	13	1	2	3	58	.08	.093	9	30	.46	88	.03	4	3.05	.01	.08	1	1
RB-L5W 3+50N	7	103	16	85	.4	26	11	853	4.61	74	5	ND	1	13	1	2	2	62	.06	.111	8	30	.37	80	.02	7	2.93	.01	.08	1	6
RB-L5W 3+25N	6	134	19	110	.5	28	14	1042	4.31	87	6	ND	1	14	1	2	2	56	.05	.112	6	26	.45	94	.02	6	2.95	.01	.14	1	10
RB-L5W 3+00N	7	57	22	66	1.0	17	12	2715	4.17	64	5	ND	1	16	1	2	3	61	.05	.158	7	29	.21	111	.01	6	2.04	.01	.10	1	26
RB-L5W 2+75N	7	157	28	135	.6	32	20	1274	4.16	117	6	ND	1	17	1	3	2	59	.07	.097	8	28	.49	116	.03	6	3.21	.01	.16	1	23
RB-L5W 2+50N	9	69	62	84	.7	14	7	1215	4.82	116	6	ND	1	15	1	10	2	58	.07	.112	7	17	.25	89	.02	7	2.50	.01	.08	1	3
RB-L5W 2+25N	10	50	21	61	.8	10	5	432	5.40	75	5	ND	1	11	1	2	2	54	.04	.109	6	16	.18	42	.02	6	2.52	.01	.05	1	6
RB-L5W 2+00N	6	64	20	56	1.0	10	4	272	2.97	52	5	ND	1	18	1	2	2	48	.07	.069	7	16	.23	53	.02	5	2.20	.01	.06	1	2
RB-L5W 1+75N	8	153	34	136	.8	22	19	991	4.77	127	7	ND	1	18	1	3	2	57	.07	.092	7	20	.44	76	.03	8	3.08	.01	.11	1	15
RB-L5W 1+50N	9	72	22	75	.5	12	10	1923	5.39	75	7	ND	1	14	1	2	2	64	.05	.141	7	16	.26	68	.03	5	2.56	.01	.09	1	2
RB-L5W 1+25N	12	42	18	57	.3	9	5	492	6.67	70	6	ND	1	11	1	2	2	67	.03	.137	7	17	.18	50	.03	9	2.60	.01	.06	1	3
RB-L5W 1+00N	5	37	19	36	1.6	7	3	137	2.45	43	5	ND	1	12	1	2	3	41	.03	.096	7	12	.15	33	.01	4	1.90	.01	.05	1	1
RB-L5W 0+75N	7	116	22	94	.5	19	16	666	4.14	62	6	ND	1	18	1	2	2	54	.09	.082	11	19	.54	105	.03	9	3.02	.02	.15	1	1
RB-L5W 0+50N	7	129	20	102	.4	21	21	1041	4.39	65	7	ND	1	17	1	2	2	55	.09	.084	12	18	.57	118	.04	7	3.17	.02	.19	1	1
RB-L5W 0+25N	7	128	23	103	.2	20	21	1056	4.45	66	5	ND	1	18	1	2	2	56	.09	.081	11	20	.57	118	.04	6	3.13	.02	.19	1	4
RB-L5W 0+00N	9	80	23	72	.3	17	8	318	5.23	69	7	ND	2	12	1	2	2	49	.07	.092	8	21	.40	66	.04	10	3.60	.01	.07	3	6
STD C/AU-S	20	55	40	132	6.8	64	26	989	3.82	41	18	7	29	42	16	18	21	52	.37	.082	35	61	.84	153	.07	34	1.63	.05	.11	12	52

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB-L4W 5+00N	6	130	15	79	.3	22	10	450	3.74	159	5	ND	1	18	1	2	2	59	.12	.108	10	25	.50	74	.06	2	3.00	.01	.09	1	80
RB-L4W 4+75N	3	57	25	90	.4	16	9	916	4.35	50	5	ND	1	13	1	5	2	50	.06	.147	6	18	.37	81	.03	3	3.06	.01	.08	1	1
RB-L4W 4+50N	3	68	10	62	.4	13	6	377	3.36	84	5	ND	1	14	1	2	3	60	.10	.100	8	20	.37	66	.04	2	2.61	.01	.07	1	4
RB-L4W 4+25N	2	107	14	83	.2	24	11	584	4.08	70	5	ND	1	20	1	2	3	66	.14	.116	10	28	.55	83	.04	3	3.33	.01	.07	10	450
RB-L4W 4+00N	3	40	13	53	.2	9	5	304	4.58	43	5	ND	1	30	2	5	2	82	.23	.074	7	20	.25	64	.06	2	2.10	.01	.06	1	3
RB-L4W 3+75N	3	82	9	66	.2	13	7	296	3.96	47	5	ND	1	32	1	3	2	65	.12	.080	11	24	.34	62	.07	3	3.50	.01	.06	1	4
RB-L4W 3+50N	3	62	14	52	.4	9	5	175	4.24	43	5	ND	1	31	2	4	2	74	.13	.076	11	26	.30	57	.09	3	3.17	.01	.06	2	5
RB-L4W 3+25N	5	121	14	52	.1	12	6	366	3.88	86	5	ND	1	33	1	5	2	82	.12	.070	20	26	.34	80	.10	2	2.69	.01	.06	1	15
RB-L4W 3+00N	3	161	13	49	.1	14	6	401	2.90	54	5	ND	1	35	1	2	3	63	.09	.097	8	20	.24	73	.04	2	1.85	.01	.05	1	6
RB-L4W 2+75N	10	362	14	124	.3	37	26	675	3.84	472	5	ND	1	20	1	4	2	63	.18	.105	10	26	.56	84	.04	3	2.49	.02	.09	1	27
RB-L4W 2+50N	5	144	15	103	.1	33	18	1203	3.94	108	5	ND	1	16	1	2	3	59	.13	.091	9	27	.55	103	.05	2	2.54	.01	.11	1	4
RB-L4W 2+25N	2	156	13	75	.1	27	11	249	3.81	61	5	ND	2	20	1	4	2	71	.12	.067	9	38	.58	67	.10	2	2.96	.01	.09	2	19
RB-L4W 2+00N	8	89	13	62	.4	12	5	165	4.87	60	5	ND	2	28	1	2	2	75	.19	.060	10	22	.32	54	.12	3	2.68	.01	.05	2	2
RB-L4W 1+75N	2	131	9	87	.2	20	9	293	5.08	49	5	3	5	17	1	3	2	49	.09	.115	10	29	.43	55	.03	3	4.77	.01	.05	1	2
RB-L4W 1+50N	3	60	22	53	.4	9	5	177	5.87	51	5	ND	2	20	1	3	2	85	.11	.114	10	23	.25	59	.10	3	3.17	.01	.06	1	4
RB-L4W 1+25N	4	104	19	127	.9	23	13	724	4.63	79	5	ND	1	18	1	5	2	54	.09	.173	6	22	.40	96	.03	3	3.55	.01	.12	1	6
RB-L4W 1+00N	2	126	20	139	.7	27	18	1315	4.76	106	5	ND	1	16	1	9	2	56	.06	.124	6	24	.47	111	.02	2	3.44	.02	.13	1	11
RB-L4W 0+75N	2	136	24	144	.8	30	20	1264	4.30	108	5	ND	1	16	1	3	3	56	.07	.095	7	26	.50	121	.03	4	3.31	.01	.16	1	6
RB-L4W 0+50N	3	99	19	115	.5	25	11	556	5.01	109	5	ND	2	15	1	7	2	60	.06	.100	7	23	.45	90	.03	2	2.85	.02	.12	1	12
RB-L4W 0+25N	3	19	12	32	.2	5	2	80	1.93	25	5	ND	1	13	1	5	2	62	.05	.053	7	18	.09	34	.12	2	.84	.01	.03	1	5
RB-L4W 0+00N	3	32	16	50	.8	9	4	163	5.69	58	5	ND	1	15	1	3	2	67	.08	.100	6	20	.19	42	.04	2	2.85	.01	.04	1	6
RB-L3W 5+00N	4	381	18	94	.3	24	18	582	3.65	236	7	ND	8	33	1	3	2	76	.29	.144	16	33	.74	122	.24	3	2.23	.01	.23	1	70
RB-L3W 4+75N	4	196	18	71	.5	17	10	320	4.03	189	5	ND	1	27	1	2	2	78	.16	.117	10	30	.53	70	.09	2	2.52	.01	.11	1	28
RB-L3W 4+50N	8	465	17	80	.9	23	13	480	3.31	177	8	ND	4	31	1	7	2	68	.29	.170	21	31	.64	93	.15	12	2.33	.02	.18	1	240
RB-L3W 4+25N	2	1291	13	76	1.5	26	43	482	3.89	1127	5	ND	5	32	1	12	7	81	.38	.190	19	37	.70	96	.15	2	2.85	.01	.19	62	1280
RB-L3W 4+00N	3	413	9	77	.6	22	14	285	3.90	250	5	ND	4	120	1	39	2	89	.32	.112	11	39	.81	102	.25	2	2.12	.02	.13	9	125
RB-L3W 3+75N	2	123	10	64	.3	18	9	272	3.49	94	5	ND	1	41	1	4	2	79	.17	.121	7	31	.55	78	.09	2	1.96	.01	.13	1	23
RB-L3W 3+50N	6	134	12	65	.4	13	6	419	3.35	61	5	ND	1	32	1	3	4	61	.13	.092	10	21	.34	74	.05	2	2.52	.01	.06	1	26
RB-L3W 3+25N	3	219	17	72	.6	17	9	429	3.51	55	5	ND	1	30	1	3	2	67	.19	.176	12	24	.45	96	.07	3	2.35	.01	.10	1	24
RB-L3W 3+00N	3	220	14	79	.3	17	12	501	3.68	155	5	ND	2	28	1	3	4	70	.18	.103	11	25	.50	97	.07	2	2.86	.01	.09	1	14
RB-L3W 2+75N	2	164	14	61	.5	15	9	385	3.26	40	5	ND	2	32	1	4	2	72	.22	.093	12	28	.46	91	.10	2	2.42	.01	.11	1	18
RB-L3W 2+50N	2	176	13	67	.4	16	10	285	2.88	49	5	ND	1	28	1	4	3	58	.21	.102	10	25	.45	83	.07	2	2.58	.02	.08	1	9
RB-L3W 2+25N	3	133	12	54	1.2	15	9	258	4.53	75	5	ND	3	22	2	4	2	92	.14	.073	10	32	.46	74	.12	4	2.53	.02	.10	5	16
RB-L3W 2+00N	4	62	10	56	.5	10	5	217	3.38	42	5	ND	1	24	1	4	2	69	.12	.077	9	22	.26	73	.07	3	2.09	.01	.07	2	210
RB-L3W 1+75N	2	98	12	62	.5	13	6	181	3.95	73	5	ND	1	24	1	4	3	76	.14	.141	8	25	.41	64	.09	2	2.14	.01	.07	1	83
RB-L3W 1+50N	2	177	12	59	.6	17	8	245	3.05	53	5	ND	2	20	1	4	2	62	.18	.116	11	26	.44	55	.08	2	1.94	.01	.08	1	5
STD C/AU-S	18	57	39	132	7.5	73	29	980	3.76	39	16	7	33	48	18	17	22	59	.41	.094	40	58	.85	175	.08	35	1.81	.06	.13	13	53

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB-L3W 1+25N	3	181	10	85	.3	33	22	688	3.76	126	6	ND	3	14	1	3	2	52	.11	.065	9	25	.58	69	.03	2	2.34	.01	.06	1	30
RB-L3W 1+00N	6	132	15	96	.4	30	17	1221	3.64	102	5	ND	1	15	1	2	2	54	.12	.087	9	26	.51	100	.04	2	2.34	.01	.11	1	6
RB-L3W 0+75N	15	276	25	99	.9	26	21	654	3.99	167	8	ND	3	31	1	7	2	59	.23	.061	12	26	.70	90	.13	2	2.67	.01	.16	1	16
RB-L3W 0+50N	4	130	14	68	.9	16	8	290	3.83	73	5	ND	1	18	1	2	2	56	.10	.068	8	25	.44	57	.05	3	2.13	.01	.05	1	20
RB-L3W 0+25N	7	91	10	56	.5	11	7	296	3.31	139	5	ND	1	15	1	2	2	59	.08	.066	7	16	.26	54	.02	2	1.69	.01	.07	1	6
RB-L3W 0+00N	6	36	12	50	.5	7	4	179	7.95	71	5	ND	1	13	1	2	2	89	.06	.076	6	22	.18	37	.08	2	1.93	.01	.04	1	5
RB-L2W 4+50N	7	530	11	84	.7	28	12	220	3.11	111	6	ND	2	35	1	5	2	61	.33	.113	15	25	.47	69	.13	2	2.65	.01	.10	1	81
RB-L2W 4+25N	3	330	12	61	.4	16	10	177	2.62	96	5	ND	1	40	1	2	2	60	.27	.112	13	24	.49	64	.11	2	2.12	.01	.11	1	35
RB-L2W 4+00N	3	168	14	52	.3	11	6	364	2.47	58	5	ND	1	30	1	4	3	53	.18	.104	10	20	.36	62	.12	3	1.85	.01	.09	1	13
RB-L2W 3+75N	2	81	11	42	.7	7	3	109	2.16	34	5	ND	1	22	1	2	2	46	.12	.090	10	15	.20	59	.11	2	1.87	.01	.05	1	18
RB-L2W 3+50N	3	102	7	36	.6	7	4	185	2.14	41	5	ND	1	19	1	3	3	50	.11	.072	8	17	.22	41	.07	3	1.75	.01	.05	3	22
RB-L2W 3+25N	2	337	13	52	.7	17	14	277	2.68	44	5	ND	5	24	1	3	2	69	.31	.109	18	33	.50	77	.14	4	1.64	.01	.14	1	54
RB-L2W 3+00N	4	399	16	75	.7	19	12	259	3.64	170	5	ND	2	45	1	3	2	82	.20	.066	11	30	.64	68	.16	4	2.02	.01	.14	8	56
RB-L2W 2+75N	11	701	24	69	1.1	16	24	1222	3.17	258	5	ND	1	36	1	12	2	71	.18	.113	10	28	.39	100	.10	3	1.64	.01	.13	12	139
RB-L2W 2+50N	5	479	27	108	.7	22	19	484	4.20	210	5	ND	2	38	1	8	2	91	.24	.074	11	33	.79	105	.20	2	2.45	.02	.16	4	57
RB-L2W 2+25N	5	373	17	80	.7	18	14	276	3.70	208	5	ND	4	30	1	6	2	81	.21	.090	11	30	.62	79	.20	3	2.08	.01	.12	5	135
RB-L2W 2+00N	4	113	14	48	.6	11	6	190	2.84	80	5	ND	1	18	1	6	2	71	.10	.056	10	26	.33	47	.11	4	1.47	.01	.07	5	49
RB-L2W 1+75N	3	134	9	49	1.0	13	7	125	2.33	71	5	ND	1	24	1	5	2	55	.13	.069	8	24	.44	42	.13	3	1.54	.01	.07	5	36
RB-L2W 1+50N	4	88	5	43	.6	9	5	112	3.03	66	5	ND	1	27	1	3	2	70	.20	.059	7	23	.26	44	.10	4	1.88	.01	.04	4	34
RB-L2W 1+25N	6	80	9	35	.2	8	4	150	3.30	62	5	ND	1	23	1	4	2	75	.14	.072	9	24	.24	64	.12	2	1.88	.01	.05	1	19
RB-L2W 1+00N	4	83	10	47	.8	10	5	161	3.34	67	5	ND	1	28	1	2	3	76	.18	.071	8	26	.32	63	.10	2	1.53	.01	.05	2	19
RB-L2W 0+75N	3	90	14	41	.4	9	5	188	2.97	72	5	ND	1	19	1	5	2	69	.10	.053	8	22	.28	44	.11	2	1.74	.01	.05	4	10
RB-L2W 0+50N	3	81	8	54	.4	13	6	238	3.22	62	5	ND	1	23	1	4	3	64	.13	.076	7	23	.35	59	.04	3	1.74	.01	.06	1	31
RB-L2W 0+25N	3	76	7	55	.2	12	6	232	3.03	67	5	ND	1	19	1	2	2	59	.11	.079	6	21	.36	57	.04	3	1.74	.01	.06	1	155
RB-L2W 0+00N	4	53	6	42	.4	10	5	266	2.97	74	5	ND	1	13	1	2	3	57	.08	.065	4	15	.23	45	.01	2	1.24	.01	.03	1	10
RB-L1W 5+00N	4	403	12	85	.9	27	14	500	3.29	89	5	ND	7	39	1	4	2	63	.27	.086	16	28	.67	120	.14	2	2.28	.01	.14	1	9
RB-L1W 4+75N	6	537	24	81	1.4	17	9	245	2.77	68	6	ND	1	38	1	10	2	64	.31	.081	14	25	.48	67	.09	2	1.77	.01	.08	2	64
RB-L1W 4+50N	18	1123	26	103	2.0	30	18	419	3.43	167	7	ND	5	38	1	17	2	66	.39	.097	29	28	.66	76	.13	5	1.83	.01	.15	1	90
RB-L1W 4+25N	11	686	11	67	1.0	19	12	374	3.03	104	6	ND	3	27	1	5	2	67	.27	.101	20	27	.55	75	.14	2	1.87	.01	.12	1	470
RB-L1W 4+00N	5	497	15	80	.6	22	12	313	3.40	78	5	ND	4	31	1	4	2	74	.27	.088	16	31	.64	83	.14	3	2.94	.02	.09	2	44
RB-L1W 3+75N	3	375	9	64	.8	20	12	331	3.20	70	5	ND	7	35	1	3	2	70	.30	.089	17	30	.60	93	.18	3	2.03	.02	.17	1	31
RB-L1W 3+50N	1	175	9	51	.5	18	10	282	3.19	37	5	ND	8	29	1	4	2	83	.29	.088	15	38	.49	83	.15	3	1.63	.02	.13	2	8
RB-L1W 3+25N	3	142	7	57	.3	14	7	247	3.53	69	5	ND	3	23	1	4	3	77	.15	.123	11	31	.37	55	.13	2	2.48	.01	.09	1	7
RB-L1W 3+00N	3	73	12	30	.6	7	4	142	2.32	43	5	ND	1	20	1	2	2	57	.10	.069	9	18	.19	50	.08	3	1.36	.01	.06	1	200
RB-L1W 2+75N	79	988	1363	3375	64.2	24	14	355	3.31	321	5	ND	3	46	4	295	2	67	.54	.112	13	20	.66	53	.09	3	2.23	.02	.13	11	47
RB-L1W 2+50N	8	537	213	386	13.0	17	9	268	2.54	117	5	ND	2	35	4	36	2	61	.36	.082	13	28	.50	57	.10	4	1.36	.01	.11	3	34
STD C/AU-S	18	55	38	132	7.6	71	29	974	3.76	40	18	7	32	48	17	15	22	58	.41	.089	39	58	.86	173	.08	35	1.80	.06	.13	14	48

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB-L1W 2+25N	14	1106	596	746	64.0	19	11	308	3.75	350	5	ND	3	38	5	162	2	87	.48	.115	18	36	.57	45	.10	4	1.36	.01	.10	1	143
RB-L1W 2+00N	5	46	20	27	1.4	4	2	57	1.82	43	5	ND	1	20	1	7	2	59	.09	.042	7	16	.08	37	.08	2	1.01	.01	.03	1	47
RB-L1W 1+75N	6	41	4	22	.7	6	3	60	2.27	50	5	ND	1	43	1	3	2	74	.26	.036	6	28	.16	63	.09	4	.68	.01	.06	1	22
RB-L1W 1+50N	5	88	23	43	1.1	10	5	175	4.34	58	5	ND	2	27	1	4	2	94	.16	.208	9	33	.31	42	.11	8	1.97	.01	.08	2	9
RB-L1W 1+25N	9	214	34	69	2.0	10	6	134	2.45	167	5	ND	1	31	1	7	2	64	.21	.068	8	21	.33	76	.10	6	1.30	.01	.07	1	74
RB-L1W 1+00N	6	409	69	72	2.9	12	8	190	2.53	153	5	ND	1	35	1	24	2	65	.26	.089	11	25	.39	50	.10	4	1.50	.01	.09	3	143
RB-L1W 0+75N	8	136	23	48	.8	12	6	149	4.07	153	5	ND	3	28	1	4	2	84	.17	.068	8	27	.38	58	.17	6	1.88	.02	.06	1	19
RB-L1W 0+50N	4	94	9	43	.5	9	5	111	2.48	76	5	ND	1	26	1	3	2	58	.18	.098	7	23	.34	54	.11	4	1.48	.01	.04	1	250
RB-L1W 0+25N	5	52	17	29	.4	6	3	141	2.50	61	5	ND	1	22	1	2	2	66	.10	.070	7	18	.16	43	.08	4	1.25	.01	.03	1	36
RB-C1W 0+00N	5	37	7	21	.6	4	2	96	1.64	43	5	ND	1	22	1	3	2	45	.12	.056	7	14	.11	39	.07	7	.80	.01	.03	1	110
STD C	18	57	38	132	7.6	72	28	1026	3.81	43	17	8	37	49	19	17	20	61	.44	.102	41	62	.88	177	.09	32	1.85	.06	.14	13	-

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL/ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY

DATE RECEIVED: JUL 20 1987 DATE REPORT MAILED: Aug 3/87 ASSAYER. D. Toye ..DEAN TOYE. CERTIFIED B.C. ASSAYER

SOUTHERN GOLD PROJECT-RD File # 87-2565A

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU** OZ/T
RD#1R	156	65739	77	325	39.0	1027	520	156	12.51	6525	5	30	2	7	8	18	39	58	.41	.020	3	1	.57	18	.02	2	.65	.03	.12	1	1.390
RD#2R	1771	54112	115	433	30.5	208	92	134	10.86	935	5	ND	5	5	8	31	21	54	.62	.133	33	5	.71	19	.02	2	.78	.02	.20	1	.095
RD#3R	277	25748	57	158	11.9	170	63	141	5.74	399	5	ND	1	5	3	9	7	56	.62	.111	4	2	.50	13	.01	2	.48	.01	.07	3	.108
RD#4R	14	2913	148	445	1.7	20	8	247	2.98	18	5	ND	13	20	2	11	3	54	.52	.069	18	17	.62	33	.18	4	.92	.04	.19	1	.003
RD#5R	123	39844	4860	12116	256.3	69	57	329	6.47	1326	5	ND	16	21	163	1753	17	20	1.04	.046	157	2	.17	14	.01	5	.62	.01	.13	1	.065
RD#6R	1418	27588	98	391	80.7	180	68	327	12.43	692	5	ND	3	7	7	259	2	85	.77	.063	37	2	.70	7	.03	2	1.63	.05	.09	6	.059
RD#7R	62	9900	8648	10162	268.3	14	16	165	1.76	1473	6	ND	3	10	116	4146	2	29	.87	.189	4	7	.42	8	.01	3	.31	.01	.06	5	.008
RD#8R	17	2204	81	187	3.2	481	186	372	28.71	812	5	ND	7	23	2	143	3	59	.80	.141	51	4	.56	20	.03	5	.43	.01	.13	2	.001
RD#9R	911	3774	44	143	7.1	106	64	113	10.09	977	5	ND	4	11	3	240	4	1	.76	.273	6	2	.14	6	.01	66	.27	.01	.09	18	.001
RD#10R	3	7270	108	538	26.8	592	119	822	19.88	7379	5	ND	2	437	7	771	2	17	7.40	.084	3	1	2.34	10	.01	6	.05	.10	.04	3	.011
RD#11R	86	2477	34	62	2.3	371	2866	148	27.25	37318	104	ND	7	7	1	82	21	2	.26	.001	17	1	.14	14	.01	14	.22	.01	.09	1	.026
RD#12R	107	799	41	54	11.8	121	1724	189	11.59	38039	5	2	89	57	1	62	6	9	1.05	.005	1517	1	.25	31	.01	12	.29	.01	.15	1	.040
RD#13R	622	65436	55	738	33.1	3329	855	310	16.92	22745	5	6	5	8	12	65	69	44	1.13	.046	34	1	.53	14	.01	7	.63	.01	.13	1	.275
RD#14R	247	10552	28	54	20.7	34	12	70	12.98	1130	8	ND	8	4	1	35	14	49	.24	.074	80	1	.15	3	.01	3	.41	.01	.03	1	.022
RD#15R	271	3420	17	41	10.0	72	9	109	24.03	68	5	ND	12	3	1	5	3	171	.64	.134	131	1	.42	2	.03	2	.20	.01	.02	4	.008

ASSAY REQUIRED FOR Cu > 10,000 PPM
Zn > 20,000 ppm
Mo, Sb > 1000 ppm
Ag > 35 ppm

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: SEPT 1 1987
DATE REPORT MAILED: Sept. 8/87.

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp

ASSAYER: ..D. Toye.. DEAN TOYE, CERTIFIED B.C. ASSAYER

SOUTHERN GOLD File # 87-2565A R

SAMPLE#	CU %	PB %	ZN %	AS %	AG OZ/T
RD#1R	8.09	.01	.01	.79	.92
RD#2R	5.16	.01	.02	.09	.59
RD#3R	2.77	.01	.01	.05	.26
RD#4R	.29	.02	.04	.01	.04
RD#5R	4.41	.50	1.21	.15	7.26
RD#6R	2.92	.01	.03	.09	2.18
RD#7R	.98	.73	.88	.15	6.38
RD#13R	8.25	.01	.06	2.98	.79
RD#14R	1.06	.01	.01	.13	.52

ACME ANALYTICAL LABORATORIES   852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6   PHONE 253-3158   DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-2 ROCK P3-10 SOIL   AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 30 1987   DATE REPORT MAILED: Aug 8/87   ASSAYER. D. Toye ..DEAN TOYE. CERTIFIED B.C. ASSAYER

SOUTHERN GOLD RESOURCES PROJECT-RD   File # 87-2859   Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
A-16	366	11523	1526	4175	226.1	25	411	264	4.43	4649	6	ND	6	24	61	1613	5	22	2.09	.087	41	3	.38	21	.01	7	.86	.01	.16	6	1190
A ROCK TALUS #1	17	1011	3506	1764	31.3	104	42	606	4.43	179	5	ND	2	7	25	193	2	8	.25	.028	6	2	.40	63	.01	2	1.25	.02	.28	2	23
A ROCK TALUS #2	8	2470	62	143	5.8	220	158	71	32.61	88	5	ND	3	9	3	45	7	14	.60	.213	3	1	.26	8	.01	2	.47	.02	.05	3	11
A ROCK TALUS #3	328	105	28	24	1.5	2	1	31	3.49	94	5	ND	1	3	1	4	4	2	.02	.085	2	1	.02	10	.01	55	.07	.01	.03	5	7
A ROCK TALUS #4	17	581	75	120	4.8	12	11	128	1.33	193	10	ND	2	43	2	23	5	8	.44	.005	7	8	.11	7	.02	2	.87	.20	.04	1	41
A ROCK TALUS #5	119	4489	29	55	4.5	1035	3355	198	23.88	35717	5	33	5	3	1	477	388	1	.05	.137	2	1	.29	5	.01	15	.03	.01	.01	198	40800
R-1	685	45176	206	2249	274.6	29	487	239	8.32	2243	5	ND	7	19	39	1281	19	76	1.74	.176	36	3	.96	33	.04	4	1.22	.01	.26	13	1760
R-2	291	55329	1485	8773	188.5	23	72	265	12.76	2572	5	ND	7	25	119	971	26	33	1.04	.041	38	1	.67	11	.01	3	1.03	.01	.11	1	2070
R-3	2806	7083	1253	3239	26.9	57	49	312	4.86	308	15	ND	6	30	42	112	7	75	2.06	.092	27	1	.86	19	.03	2	1.03	.01	.24	4	390
R-4	227	12464	3013	1917	174.9	62	33	230	3.81	1178	9	ND	7	19	32	1374	9	51	1.63	.064	25	4	.53	12	.03	3	.79	.01	.14	3	1170
R-5	260	1824	33	132	9.2	60	21	593	5.05	432	5	ND	9	35	2	32	2	57	4.39	.125	93	2	.95	11	.01	4	1.15	.01	.17	1	103
R-6	342	19624	64	488	135.2	130	31	881	9.02	766	27	ND	17	60	10	577	6	72	6.21	.372	243	1	1.23	14	.01	4	1.27	.08	.25	4	138
R-7	103	13885	200	442	31.7	55	30	377	4.52	429	5	3	9	27	8	52	2	28	1.60	.041	43	4	.46	24	.02	4	.94	.01	.13	1	11290
R-8	124	19696	126	462	29.5	161	223	1900	5.19	895	31	ND	12	27	12	108	5	64	.60	.046	109	8	.55	27	.04	6	1.35	.01	.12	5	980
R-9	520	28416	445	848	126.3	268	143	357	7.70	1564	19	2	9	12	20	262	10	78	.53	.096	75	5	.87	17	.05	4	1.21	.01	.13	1	2330
R-10	285	35349	718	833	167.7	244	138	446	7.08	1966	5	2	7	14	21	540	13	57	.64	.128	27	9	.66	18	.06	3	1.01	.01	.12	1	4830
R-11	107	61380	281	843	60.4	284	99	257	12.00	1241	5	ND	7	23	19	115	45	63	.58	.109	21	2	.72	18	.04	3	.92	.01	.12	1	7020
R-12	143	54866	5467	43615	385.7	170	57	231	9.46	1227	5	ND	6	13	527	3389	37	73	.84	.075	16	16	.82	19	.05	4	1.02	.01	.13	1	2540
R-13	110	23163	1116	6531	59.2	122	45	244	5.60	472	5	ND	9	17	85	355	5	61	1.07	.086	49	8	.68	24	.07	3	.82	.01	.17	3	2160
R-14	60	23756	6012	61674	201.1	126	64	222	5.09	963	5	ND	9	32	742	1611	10	42	.71	.048	61	7	.61	19	.04	3	.73	.01	.12	1	5220
R-15	119	51002	24798	28697	382.1	234	66	186	8.82	1513	125	ND	6	22	357	2697	42	44	.73	.056	29	3	.54	14	.03	2	.55	.01	.09	1	2850
R-16	469	24395	6060	42537	164.6	85	30	190	5.60	560	5	ND	8	20	518	1322	9	49	.77	.103	55	6	.57	16	.05	3	.65	.01	.10	1	1160
R-17	44	99999	8126	4731	108.8	381	61	102	22.30	510	5	ND	3	6	75	471	164	52	.30	.050	18	1	.32	9	.01	3	.27	.02	.06	1	2690
R-18	134	88958	555	2590	65.2	222	39	174	16.90	291	5	ND	3	10	41	121	151	77	.87	.096	16	1	.68	19	.01	4	.72	.01	.07	1	4050
RA-1	175	11597	1006	1028	87.3	31	196	331	4.99	908	7	ND	4	27	17	726	2	42	2.09	.043	26	7	.66	69	.05	3	1.54	.01	.19	26	530
RA-11	482	15499	183	859	194.8	20	305	417	4.71	2062	5	5	4	32	20	1878	223	27	2.19	.080	50	8	.38	37	.01	5	1.14	.01	.20	6	5870
RA-12	374	13173	731	1603	100.2	22	219	327	3.70	1119	6	ND	4	42	23	807	2	17	1.57	.063	13	4	.33	37	.01	16	.88	.01	.19	236	490
RA-13	479	39886	1286	8222	75.9	23	241	334	7.48	1435	5	ND	3	31	103	455	22	24	1.38	.140	14	6	.48	31	.01	4	.94	.01	.20	149	2710
RA-14	315	15445	95	525	27.4	46	881	364	4.76	2200	5	ND	3	24	7	176	12	31	2.35	.135	9	28	.47	32	.02	4	1.23	.01	.17	464	3220
RA-16	508	21140	518	1938	140.9	26	228	252	4.37	2065	5	ND	4	36	27	928	3	20	3.22	.176	16	9	.40	16	.01	11	.66	.01	.14	10	510
RA-17	401	32393	1441	2576	60.5	21	163	218	5.96	1064	5	ND	8	31	33	396	10	27	3.13	.349	22	9	.50	15	.02	5	.89	.01	.13	24	1530
RA-29/30	214	21798	2329	3181	365.9	17	84	289	6.42	1873	5	ND	9	30	51	2030	2	36	1.63	.066	85	7	.84	22	.05	4	1.07	.01	.18	1001	1440
RA-32	415	42046	86	379	41.1	20	166	313	9.36	832	5	ND	6	26	7	53	8	60	1.67	.067	53	10	1.05	14	.04	3	1.44	.01	.14	19	1380
RA-41	186	42955	129	423	131.2	32	566	268	8.91	2235	6	ND	11	19	11	234	12	30	.82	.052	25	5	.63	20	.03	5	1.17	.01	.19	9	790
RA-42	134	33287	241	679	192.1	20	218	281	7.20	1424	7	ND	10	26	18	1582	7	49	1.68	.043	37	12	.78	20	.05	5	1.38	.01	.19	8	680
RA-90	352	13350	14322	6332	165.2	49	871	184	4.01	5844	5	ND	28	20	82	1388	9	14	1.92	.148	474	6	.41	15	.01	32	.75	.01	.11	238	1870
RA-101	116	25246	141	913	297.1	34	27	266	7.28	895	5	4	9	23	22	2075	6	69	1.06	.038	79	10	.77	17	.05	3	1.15	.01	.15	3	12360
STD C/AU-R	18	58	35	129	6.8	68	28	922	4.02	41	17	7	38	49	18	17	21	57	.50	.089	37	59	.91	173	.08	33	1.73	.05	.13	12	510

ASSAY REQUIRED FOR Cu Pb As >10,000 ppm

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU# PPB
ROCK TALUS 8+75N	3	2	20	108	.2	14	7	1614	10.72	7	5	ND	1	166	1	2	2	103	21.48	.002	5	1	1.68	15	.01	2	.11	.27	.01	4	2
ROCK TALUS 8+50N	2	23761	43	129	5.9	20	254	474	3.81	392	5	ND	6	27	4	10	80	51	3.92	.001	20	7	.25	21	.01	10	.62	.01	.15	1	2750
ROCK TALUS 5+40N	6	17408	68	348	37.5	225	576	64	15.50	35582	5	ND	5	3	3	96	7	3	.12	.067	15	1	.04	4	.01	74	.06	.01	.02	329	1320
ROCK TALUS 4+70N	2	82	142	250	1.8	72	9	264	41.15	151	5	ND	9	5	1	9	7	416	.41	.103	111	1	.49	5	.03	2	.42	.01	.02	1	17
RT ROCK 1+75S	2	6005	17	98	6.7	40	13	430	3.00	1243	5	ND	1	6	1	2	2	136	.55	.080	4	5	1.21	9	.01	6	.67	.02	.01	6	285
RT ROCK 3+80S	95	8465	48	126	13.5	9	7	488	12.63	103	5	ND	7	73	2	222	2	56	3.70	.127	18	4	.45	20	.01	5	.21	.01	.10	1	410
RT ROCK 5+00S	139	9616	15	70	4.0	46	22	276	11.09	91	9	ND	9	19	1	2	2	160	1.73	.183	26	10	1.33	50	.05	4	1.25	.01	.12	9	685
RT ROCK 7+00S	27	5147	43	109	5.9	122	158	129	24.41	1309	5	ND	12	9	1	14	2	51	.26	.037	2	11	.28	9	.04	44	.40	.03	.16	11	36
RT ROCK 12+50S	25	323	10	44	.4	265	20	135	2.50	386	5	ND	3	152	1	5	2	129	2.87	.008	2	58	1.02	53	.06	47	5.08	.57	.52	4	20
RT ROCK 2+15S	73	12429	21	387	5.1	35	13	486	7.90	32	14	ND	9	67	2	4	2	185	4.54	.033	90	8	1.03	20	.01	5	.34	.01	.07	4	830
RVJ-1	1715	5	10	65	4.9	8135	8214	142	18.64	31610	5	104	6	121	2	21	1189	32	1.51	.021	2	1	.20	12	.01	39	.21	.01	.02	1	81300
RVJ-2	70320	148	9	1	1.0	381	8255	180	3.06	35551	10	91	37	489	2	2	178	192	8.99	2.297	629	1	.81	12	.01	2	.49	.24	.04	1	131200
RVJ-3	1583	81	7	41	.4	1602	4151	505	4.96	23103	15	3	4	21	1	2	138	109	1.83	.255	23	1	1.59	9	.02	7	1.67	.01	.32	1	7050
RWU-55	1805	24415	691	9188	179.7	16	268	344	5.55	1849	5	ND	21	85	125	1885	2	15	1.92	.082	374	3	.38	30	.01	8	.90	.01	.22	1414	1460
RWU-75	241	28953	514	1736	86.2	174	159	215	5.41	1235	10	2	14	23	24	89	17	29	.95	.025	169	8	.45	15	.04	6	.91	.01	.13	7	4580
RWU-77	92	16271	191	432	63.4	37	32	209	4.79	382	11	ND	24	19	7	121	2	14	.74	.009	355	3	.49	13	.01	8	1.04	.01	.15	5	1460
NO NUMBER	267	13189	50	150	42.0	25	30	226	14.09	1404	9	ND	6	11	2	36	9	60	.58	.093	45	3	.51	25	.03	4	1.12	.02	.18	70	4980
STD C/AU-R	20	60	41	130	6.8	69	28	924	3.97	41	21	7	37	50	18	18	19	57	.48	.089	37	58	.88	177	.08	32	1.85	.06	.14	15	510

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
AT 0+00	23	143	18	75	.4	20	8	353	5.63	156	8	ND	2	24	1	5	3	80	.19	.106	15	37	.70	84	.06	3	3.67	.02	.15	1	3
AT 0+50	20	387	7	61	.8	52	35	262	6.48	491	31	ND	9	51	1	4	2	134	.77	.099	17	39	1.73	139	.34	2	3.72	.04	.60	1	10
AT 1+00	13	129	9	71	.5	43	15	481	6.07	132	10	ND	1	30	1	5	2	123	.19	.146	6	81	1.40	104	.11	2	2.97	.02	.33	1	1
AT 1+50	9	126	12	93	.5	62	32	747	6.44	151	8	ND	3	57	1	4	3	117	.53	.154	7	91	1.63	120	.19	2	2.64	.03	.51	1	1
AT 2+00	27	217	19	129	.3	131	54	631	8.05	356	5	ND	5	76	1	10	2	124	.54	.108	10	100	2.09	178	.23	8	3.30	.03	.61	1	5
AT 2+50	26	296	13	86	.5	117	57	554	10.86	291	14	ND	8	116	1	12	2	112	.39	.153	10	74	1.72	145	.20	2	3.53	.05	.65	1	18
AT 3+00	6	94	8	49	.1	19	21	438	7.47	179	5	ND	7	44	1	3	2	128	.57	.137	5	79	2.39	192	.34	3	2.89	.02	1.20	1	10
AT 3+50	19	223	9	73	.3	85	35	412	8.58	225	6	ND	4	84	1	8	2	103	.30	.122	10	74	1.53	141	.18	2	3.44	.04	.49	1	8
AT 4+00	10	245	12	87	.3	42	31	698	8.50	232	8	ND	3	76	1	8	2	102	.38	.141	8	85	1.70	126	.20	2	3.22	.03	.55	1	5
AT 4+50	20	518	17	64	.4	68	33	406	11.53	399	5	ND	7	109	1	25	2	115	.34	.151	10	79	2.01	150	.28	3	3.66	.04	.97	1	16
AT 5+00	17	291	16	86	.4	54	27	514	9.04	483	5	ND	2	83	1	13	2	97	.33	.154	9	58	1.41	132	.09	3	3.22	.04	.48	1	5
AT 5+50	23	374	14	64	.4	69	33	371	13.07	572	8	ND	7	105	1	21	2	90	.23	.166	12	50	1.47	116	.16	3	3.68	.05	.63	1	20
AT 6+00	18	274	13	76	.5	47	19	280	9.04	811	6	ND	2	67	1	16	2	78	.26	.128	7	50	1.14	102	.11	2	3.64	.04	.43	1	10
AT 6+50	24	396	21	64	.5	78	30	337	12.22	388	5	ND	6	43	1	21	2	101	.18	.157	9	68	1.60	129	.19	2	3.11	.04	.68	9	52
AT 7+00	17	216	14	62	.5	39	23	743	8.66	310	5	ND	2	58	1	10	2	89	.20	.186	9	51	1.19	109	.12	2	3.01	.04	.40	1	6
AT 7+50	17	284	9	53	.3	46	19	463	12.11	443	5	ND	3	89	1	13	2	75	.15	.152	9	58	1.36	105	.11	2	3.62	.05	.49	1	11
AT 8+00	39	401	23	64	.6	79	31	341	13.11	500	5	ND	6	57	1	22	2	82	.13	.161	9	59	1.38	110	.13	2	3.50	.05	.56	10	10
AT 8+50	23	281	47	54	.3	28	11	194	14.82	465	5	ND	4	69	1	34	2	67	.13	.143	5	50	1.24	75	.08	3	3.13	.05	.45	2	15
AT 9+00	23	262	51	46	.3	26	10	163	14.16	429	5	ND	4	60	1	38	2	65	.10	.139	5	44	1.17	73	.08	2	2.85	.05	.45	1	10
AT 9+50	32	313	16	57	.3	95	32	435	13.35	247	7	ND	5	111	1	15	2	57	.26	.176	8	30	1.04	90	.05	2	4.03	.06	.38	2	1
AT 10+00	17	175	6	46	.5	18	5	187	8.45	164	7	ND	1	45	1	7	2	65	.17	.169	5	35	.69	60	.04	2	3.03	.04	.19	1	1
AT 10+50	11	139	7	55	.3	19	4	136	6.21	117	5	ND	1	46	1	5	4	47	.19	.221	4	25	.50	62	.02	2	3.30	.02	.15	1	3
AT 11+00	22	255	23	49	.1	35	11	172	11.90	165	6	ND	3	99	1	16	2	72	.14	.159	7	44	1.12	102	.09	2	3.78	.06	.52	1	1
AT 11+50	13	170	6	58	.4	23	8	390	7.26	135	5	ND	1	66	1	7	3	50	.24	.169	4	24	.52	74	.02	2	2.48	.03	.20	1	5
AT 12+00	14	120	12	58	.5	17	5	227	7.30	131	8	ND	1	55	1	8	2	78	.17	.166	5	29	.82	83	.02	2	2.85	.04	.25	1	4
AT 12+50	11	108	11	43	.7	21	4	94	5.66	102	8	ND	1	35	1	6	2	71	.13	.133	5	24	.27	79	.02	2	2.10	.02	.11	2	1
AT 13+00	15	187	22	44	.4	29	6	107	8.45	185	8	ND	2	44	1	12	3	80	.07	.128	5	55	.72	87	.07	6	4.21	.04	.26	6	6
AT 13+50	21	275	26	56	.3	49	13	175	13.29	352	5	ND	5	72	1	25	2	73	.05	.166	7	50	1.01	119	.08	3	3.44	.06	.46	5	5
AT 14+00	12	109	15	49	.6	18	4	117	6.41	152	5	ND	1	64	1	9	2	63	.20	.172	5	28	.44	93	.01	2	2.34	.02	.17	4	4
AT 14+50	11	119	17	93	.3	22	11	520	6.90	143	5	ND	1	105	1	8	2	54	.47	.221	5	29	.63	133	.02	2	2.32	.03	.29	1	1
AT 15+00	12	125	12	61	.6	20	5	198	6.70	161	5	ND	1	56	1	12	2	61	.24	.151	5	37	.47	76	.03	2	3.34	.02	.15	2	3
AT 15+50	10	159	15	73	1.4	30	6	105	4.47	128	5	ND	1	61	1	6	2	55	.33	.134	5	23	.30	83	.02	2	1.46	.01	.16	1	4
AT 16+00	14	167	32	49	1.7	22	7	185	6.01	281	6	ND	1	45	1	13	2	48	.16	.098	14	30	.69	85	.04	13	2.25	.04	.29	5	12
AT 16+50	23	303	22	59	.4	25	7	190	10.75	367	5	ND	2	79	1	16	2	54	.16	.159	6	29	.67	82	.04	3	3.03	.05	.25	24	10
AT 17+00	20	301	14	46	.3	30	8	156	10.79	279	10	ND	3	48	1	13	2	73	.05	.096	8	48	.90	99	.08	2	3.92	.03	.31	2	3
AT 17+50	30	190	10	29	.1	12	3	53	7.14	115	5	ND	1	25	1	6	3	63	.05	.095	7	30	.33	27	.03	3	3.35	.02	.05	3	4
STD C/AU-S	21	63	44	131	7.8	74	29	1033	4.21	46	19	8	40	54	20	14	22	61	.52	.098	40	65	.95	181	.09	35	1.81	.06	.15	11	49

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
AT 18+00	11	302	9	43	.1	21	5	122	9.51	154	5	ND	2	54	1	11	3	73	.07	.089	8	55	.87	78	.08	3	4.31	.03	.24	4	18
AT 18+50	12	296	10	30	.1	14	3	80	8.72	131	5	ND	2	29	1	7	2	57	.11	.118	6	40	.50	40	.05	2	3.95	.02	.09	3	20
ATJ-1	22	232	36	61	.1	36	14	209	11.52	489	5	ND	5	102	1	30	2	71	.11	.136	8	56	1.01	134	.10	2	3.69	.04	.44	7	26
ATJ-2	27	318	36	62	.5	34	12	266	13.33	567	5	ND	4	89	1	28	2	62	.13	.174	9	42	.85	123	.07	3	3.38	.04	.41	24	37
ATJ-3	29	297	28	66	.3	29	9	232	12.75	404	5	ND	4	58	1	25	2	71	.04	.163	8	46	.82	105	.07	2	3.80	.04	.31	17	10
ATJ-4	23	241	29	51	.2	30	9	189	11.35	336	6	ND	4	66	1	23	2	65	.03	.133	7	44	.86	111	.07	2	4.06	.04	.31	12	9
ATJ-5	35	599	26	50	.9	30	8	173	16.43	609	5	ND	5	85	1	19	2	71	.03	.201	7	35	.79	104	.05	2	4.25	.08	.35	159	72
ATJ-6	23	346	28	58	.5	28	7	163	13.59	347	5	ND	3	61	1	16	2	64	.05	.165	7	40	.81	92	.06	7	4.28	.05	.24	24	18
ATJ-7	20	356	14	33	.1	19	4	110	16.20	266	7	ND	4	75	1	18	2	59	.16	.154	5	36	.92	90	.05	2	4.11	.04	.38	10	6
ATJ-8	17	303	14	48	.1	38	9	158	12.29	227	8	ND	4	103	1	11	2	69	.08	.142	8	54	1.10	125	.11	15	4.35	.07	.58	5	3
ATJ-9	15	287	14	52	.1	37	13	184	9.83	194	5	ND	5	73	1	16	2	72	.05	.111	10	50	1.04	146	.11	2	4.02	.06	.46	6	6
ATJ-10	17	261	10	45	.1	31	11	151	12.94	129	5	ND	5	124	1	10	2	62	.05	.141	10	39	.96	135	.11	2	4.25	.05	.51	1	55
ATJ-11	15	238	16	44	.1	36	12	137	11.76	177	5	ND	5	86	1	6	2	65	.04	.128	9	50	1.00	136	.12	2	4.47	.04	.49	4	8
ATJ-12	28	586	19	82	.1	58	51	601	8.65	282	5	ND	4	58	1	11	2	92	.10	.065	7	91	1.67	149	.22	2	5.24	.04	.75	6	11
ATJ-13	34	477	30	51	.1	43	10	180	14.49	564	5	ND	6	122	1	24	2	55	.09	.155	8	38	.78	118	.05	2	4.22	.05	.37	3	16
ATJ-14	13	375	19	51	.1	57	22	361	13.00	227	5	ND	5	38	1	10	2	66	.05	.106	7	48	.93	97	.05	2	4.43	.02	.32	2	5
ATJ-15	40	318	23	42	.2	21	6	134	10.80	344	5	ND	3	56	1	22	2	62	.05	.113	9	40	.63	85	.06	2	4.15	.03	.20	8	8
RB L6W 7+00N	6	61	13	81	.1	11	6	770	4.05	45	5	ND	1	23	1	2	2	55	.09	.166	8	17	.18	82	.01	4	1.70	.02	.08	1	4
RB L6W 6+75N	3	69	17	114	.1	22	8	446	5.28	62	5	ND	1	26	1	2	2	66	.21	.107	8	31	.55	59	.03	5	2.55	.02	.06	1	4
RB L6W 6+50N	2	81	23	146	.1	21	15	1010	4.72	65	5	ND	1	22	1	2	3	63	.16	.125	9	30	.60	70	.02	2	2.78	.01	.09	1	8
RB L6W 6+25N	3	53	16	101	.1	15	10	1152	4.46	49	5	ND	1	16	1	2	2	48	.09	.160	9	24	.41	62	.02	3	2.49	.02	.06	1	6
RB L6W 6+00N	4	57	20	86	.5	12	9	1014	4.02	53	5	ND	1	19	1	2	2	47	.11	.198	9	21	.23	61	.01	2	2.51	.01	.07	1	2
RB L6W 5+75N	5	115	70	156	.8	20	9	813	4.48	136	5	ND	1	20	1	11	2	50	.13	.215	7	28	.36	67	.01	2	2.31	.01	.08	2	5
RB L6W 5+50N	7	135	13	92	.5	31	11	838	3.71	147	5	ND	1	40	1	3	2	58	.25	.217	7	54	.31	104	.01	3	1.90	.01	.12	2	19
RB L6W 5+25N	13	164	12	92	.7	40	15	601	5.23	129	5	ND	1	27	1	2	2	65	.15	.173	9	70	.45	94	.01	4	2.34	.02	.12	5	5
RB L5W 7+00N	4	175	15	122	.2	28	17	1267	4.38	117	5	ND	2	37	1	2	2	67	.18	.133	11	30	.65	123	.06	2	2.88	.02	.14	7	29
RB L5W 6+75N	3	81	32	110	.4	23	9	709	4.36	54	5	ND	1	15	1	6	2	54	.09	.126	8	30	.49	68	.02	2	2.65	.02	.08	2	6
RB L5W 6+50N	3	123	42	102	.8	21	9	832	4.18	58	5	ND	1	17	1	4	2	54	.14	.138	9	25	.45	72	.02	2	2.51	.01	.07	5	2
STD C/AU-S	20	61	40	136	7.4	72	30	1055	4.10	39	20	8	40	55	20	18	22	62	.53	.098	42	70	.96	185	.10	37	1.90	.06	.16	14	52
RB L5W 6+25N	3	64	18	93	.2	20	8	728	3.91	66	5	ND	1	14	1	3	2	55	.09	.100	9	30	.43	65	.03	2	2.19	.02	.06	1	25
RB L5W 6+00N	5	56	11	64	.5	13	7	723	4.32	53	5	ND	2	12	1	2	2	46	.08	.160	8	27	.28	56	.02	3	2.91	.02	.07	1	1
RB L5W 5+75N	22	377	15	76	.4	25	29	483	5.85	1854	5	ND	3	20	1	2	2	70	.20	.112	12	33	.56	99	.07	2	2.30	.01	.12	6	21
RB L5W 5+50N	16	348	21	82	.4	26	22	448	4.95	1282	5	ND	2	25	1	2	2	67	.17	.105	12	28	.61	106	.07	2	2.55	.02	.13	5	18
RB L5W 5+25N	32	431	24	83	.4	33	24	536	5.60	1774	5	ND	3	20	1	3	2	76	.15	.108	10	30	.59	110	.08	6	2.53	.02	.13	7	23
RB L5W 0+25S	5	37	10	42	.5	8	5	671	3.51	78	5	ND	1	18	1	2	3	56	.06	.090	6	17	.21	83	.03	2	1.52	.02	.08	2	4
RB L5W 0+50S	4	33	9	42	1.1	6	3	360	3.55	48	5	ND	1	30	1	2	2	54	.19	.125	6	11	.11	62	.02	2	1.35	.01	.07	3	5
RB L5W 1+25S	4	14	4	23	.1	8	5	83	4.49	13	5	ND	1	11	1	2	2	141	.07	.039	7	82	.12	28	.14	2	.51	.01	.04	1	12

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB L5W 1+50S	2	11	6	15	.2	3	1	46	1.69	10	5	ND	1	16	1	2	2	43	.05	.030	7	19	.05	37	.04	16	.57	.02	.03	1	1
RB L5W 1+75S	3	20	3	22	.1	6	1	37	1.82	10	5	ND	1	18	1	2	2	45	.08	.055	7	27	.04	50	.01	3	.33	.01	.05	1	17
RB L5W 2+00S	5	25	14	36	.2	4	3	152	7.65	71	5	ND	1	8	1	4	2	93	.03	.092	6	13	.13	46	.03	2	1.73	.01	.05	1	1
RB L4W 7+00N	4	77	14	73	.1	15	7	400	4.82	53	5	ND	2	19	1	2	2	64	.07	.078	9	26	.52	55	.08	7	2.40	.02	.08	1	24
RB L4W 6+75N	5	94	26	73	.7	18	7	589	4.79	73	5	ND	2	21	1	2	2	65	.08	.144	12	28	.55	72	.04	2	2.75	.02	.09	1	1
RB L4W 6+50N	5	105	15	72	.5	17	8	590	4.07	85	5	ND	1	20	1	2	2	56	.09	.142	11	21	.46	78	.03	2	2.67	.02	.08	1	2
RB L4W 6+25N	3	91	12	47	.3	9	5	252	2.78	271	5	ND	1	18	1	2	2	46	.11	.085	7	16	.25	50	.02	2	1.83	.01	.06	9	15
RB L4W 6+00N	5	169	16	57	.5	12	9	406	3.48	510	5	ND	1	20	1	2	2	50	.11	.104	8	18	.35	69	.04	3	2.13	.02	.07	3	20
RB L4W 5+75N	8	353	26	106	.4	21	20	906	3.72	283	5	ND	2	19	1	3	2	54	.18	.151	11	22	.59	67	.05	2	2.27	.01	.12	3	9
RB L4W 5+50N	6	112	18	73	.1	21	8	284	3.94	451	5	ND	1	20	1	2	2	56	.13	.081	7	29	.57	66	.04	2	2.15	.01	.06	1	1
RB L4W 0+25S	2	102	11	83	.1	19	11	276	3.70	45	5	ND	5	15	1	2	2	45	.12	.062	8	19	.52	71	.05	2	3.26	.02	.07	1	6
RB L4W 0+50S	4	100	14	88	.2	19	12	377	5.26	65	5	ND	4	11	1	2	2	51	.05	.054	7	20	.46	68	.05	2	3.69	.02	.08	1	2
RB L4W 0+75S	3	178	13	88	.3	21	13	333	4.95	84	5	ND	3	17	1	2	2	55	.08	.042	7	23	.76	110	.05	2	4.15	.03	.14	1	2
RB L4W 1+00S	5	65	16	58	.4	9	5	340	5.52	52	5	ND	1	13	1	3	2	62	.08	.071	6	20	.29	51	.05	2	2.42	.01	.06	1	2
RB L4W 1+25S	6	50	18	25	.5	5	3	155	2.53	34	5	ND	1	22	1	2	2	54	.06	.090	8	19	.13	52	.09	2	1.14	.02	.06	1	22
RB L4W 1+50S	3	13	12	20	.6	3	1	42	1.82	21	5	ND	1	12	1	2	3	56	.07	.046	6	15	.07	28	.10	2	.67	.01	.04	1	2
RB L4W 1+75S	8	61	17	45	.1	10	5	178	6.94	70	5	ND	8	14	1	5	2	109	.08	.207	7	28	.34	43	.16	2	2.00	.02	.06	3	1
RB L4W 2+00S	6	42	17	36	.2	8	4	159	6.10	53	5	ND	3	20	1	2	3	86	.11	.059	8	27	.23	56	.12	13	1.88	.02	.05	3	1
RB L3W 0+25S	11	25	13	44	.3	5	3	215	6.18	66	5	ND	1	14	1	3	2	81	.05	.106	6	9	.08	46	.03	2	1.29	.01	.05	1	1
RB L3W 0+50S	7	35	16	59	.3	7	5	481	9.73	65	5	ND	1	10	1	2	2	73	.04	.116	5	17	.20	37	.05	2	1.92	.01	.06	1	1
RB L3W 0+75S	4	34	7	28	.1	4	2	89	1.50	15	5	ND	1	16	1	2	2	25	.07	.065	6	10	.06	59	.01	2	.74	.01	.05	1	10
RB L3W 1+00S	6	29	15	43	.2	6	3	176	5.67	73	5	ND	1	19	1	2	2	64	.10	.077	5	16	.11	50	.03	7	1.73	.02	.04	2	3
RB L3W 1+25S	4	41	7	50	.6	8	4	164	4.05	40	5	ND	1	35	1	2	2	47	.43	.122	4	13	.15	52	.02	3	2.16	.01	.06	1	1
RB L3W 1+50S	10	31	9	40	.3	6	3	126	5.74	50	5	ND	1	27	1	2	3	84	.42	.114	5	12	.13	44	.04	2	1.25	.01	.07	1	2
RB L3W 1+75S	9	23	6	27	.4	5	2	55	2.37	28	5	ND	1	18	1	4	2	54	.13	.045	7	17	.10	46	.06	2	.72	.01	.07	1	1
RB L3W 2+00S	4	28	7	33	.4	7	3	141	2.86	19	5	ND	1	22	1	3	2	70	.13	.061	6	32	.10	69	.03	2	.57	.01	.07	1	5
STD C/AU-S	20	61	39	130	7.6	70	29	1026	4.13	41	22	7	40	53	19	18	19	61	.51	.095	40	60	.93	171	.09	37	1.80	.06	.14	13	53
RB L2W 0+25S	7	71	7	54	.6	13	10	1029	3.58	74	5	ND	2	21	1	2	2	51	.13	.077	5	16	.32	62	.01	2	1.66	.01	.04	1	1
RB L2W 0+50S	7	144	9	79	.1	24	15	772	3.84	113	5	ND	2	21	1	2	2	53	.22	.088	9	25	.54	71	.03	2	1.85	.02	.09	1	7
RB L2W 0+75S	5	323	16	61	.3	18	11	426	3.54	84	5	ND	2	21	1	2	2	59	.28	.085	10	27	.47	59	.06	2	1.68	.01	.09	2	24
RB L2W 1+00S	19	28	7	36	.1	5	3	145	2.17	52	5	ND	1	25	1	2	2	63	.24	.075	6	8	.07	110	.02	2	.73	.01	.06	1	1
RB L2W 2+00S	13	72	7	61	.4	14	6	120	2.17	42	5	ND	1	38	1	2	3	26	.37	.122	4	12	.15	70	.01	2	.95	.01	.08	1	1
RB L1W 8+00N	3	118	17	96	.5	20	9	324	3.41	47	5	ND	5	89	1	2	2	64	.37	.088	14	26	.63	87	.13	2	2.15	.02	.12	1	1
RB L1W 8+00N A	6	89	24	83	.4	13	7	154	4.07	60	5	ND	2	90	1	2	2	66	.36	.094	17	26	.46	82	.09	2	3.02	.02	.11	1	210
RB L1W 7+75N	4	125	26	105	.4	17	7	506	2.97	43	5	ND	1	85	1	2	2	56	.30	.094	11	24	.47	89	.06	18	1.79	.02	.12	1	7
RB L1W 7+50N	2	136	64	236	1.9	17	7	299	3.07	50	5	ND	5	99	1	2	2	57	.37	.097	14	25	.59	82	.08	3	2.05	.01	.10	1	1
RB L1W 7+25N	45	6156	126	192	3.2	35	14	306	8.83	433	5	ND	14	54	2	47	2	73	.44	.137	48	25	.60	49	.08	21	2.25	.02	.10	1	810

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB L1W 7+00N	34	3711	133	115	17.5	23	10	274	5.02	278	6	3	13	87	1	207	2	86	.43	.139	28	30	.61	66	.11	2	2.17	.02	.13	10	2830
RB L1W 6+75N	23	2396	48	122	5.6	18	9	296	3.55	132	5	ND	3	91	1	43	2	61	.51	.080	34	21	.60	63	.11	2	2.20	.01	.11	1	43
RB L1W 6+50N	9	495	21	46	.6	11	5	349	3.35	53	5	ND	1	55	1	7	2	77	.37	.068	15	18	.34	82	.12	2	1.91	.02	.09	1	77
RB L1W 6+25N	7	1262	19	65	1.1	13	6	153	2.88	41	5	ND	3	55	1	8	2	60	.49	.094	19	20	.46	75	.12	2	2.37	.02	.09	1	46
RB L1W 6+00N	4	249	13	61	.6	16	7	246	3.72	28	5	ND	2	52	1	4	3	80	.37	.064	13	26	.56	108	.14	2	2.21	.02	.11	1	8
RB L1W 5+75N	5	172	22	47	.6	10	5	212	5.28	53	5	ND	3	45	1	7	3	96	.24	.147	12	23	.37	59	.15	2	2.21	.01	.09	1	9
RB L1W 5+25N	7	870	18	62	1.2	17	8	301	3.46	83	5	ND	3	31	1	10	2	68	.25	.103	16	24	.52	70	.10	2	2.07	.01	.08	1	143
RB L0W 7+75N	13	146	27	54	.3	19	7	265	3.85	101	5	ND	2	88	1	9	2	81	.27	.067	19	23	.40	83	.09	2	2.06	.02	.08	1	180
RB L0W 7+50N	54	2738	74	81	9.5	27	9	247	6.56	218	5	ND	5	264	1	23	2	73	.36	.173	45	17	.63	102	.07	2	2.25	.01	.12	1	165
RB L0W 7+25N	14	348	43	98	.9	15	11	843	3.07	196	5	ND	2	87	1	8	2	57	.41	.121	17	17	.61	78	.07	2	2.06	.01	.17	1	24
RB L0W 6+50N	18	1691	46	107	3.5	22	8	240	3.79	188	6	ND	5	95	1	25	2	64	.42	.126	47	21	.58	90	.09	14	2.36	.01	.14	1	175
RB L0W 6+25N	36	2463	53	127	7.8	25	19	638	4.53	321	5	ND	6	93	1	46	2	66	.43	.124	87	17	.68	90	.09	2	2.31	.02	.11	1	185
RB L0W 5+75N	12	996	21	63	.7	15	8	228	3.36	77	5	ND	5	71	1	21	2	70	.76	.082	17	19	.46	79	.15	2	2.80	.01	.17	1	46
RB L0W 5+50N	11	928	20	65	.7	15	9	292	3.54	78	5	ND	7	66	1	22	2	78	.72	.085	17	21	.45	75	.15	2	2.74	.01	.16	1	42
RB L0W 5+00N	27	3783	98	134	5.7	19	10	322	4.39	185	5	ND	4	63	1	31	2	58	.34	.128	23	19	.55	66	.09	2	2.18	.02	.12	1	395
RB L0W 4+75N	6	258	22	44	1.4	8	4	151	3.66	57	5	ND	2	51	1	9	2	73	.25	.084	13	20	.29	53	.13	2	2.23	.02	.06	2	65
RB L0W 3+90N	4	245	16	54	.9	14	6	260	3.44	48	5	ND	3	28	1	6	2	68	.20	.085	14	26	.41	65	.12	3	2.21	.01	.09	1	31
RB L0W 3+50N	6	431	21	65	.8	13	6	178	3.83	97	5	ND	3	27	1	7	2	66	.22	.106	16	24	.42	60	.09	3	2.95	.02	.06	1	195
RB L0W 3+25N	84	4953	93	169	10.7	88	35	530	4.75	540	5	ND	12	73	2	59	2	69	.73	.125	99	21	.93	61	.11	2	1.96	.01	.15	1	325
RB L0W 3+00N	7	554	24	81	.7	24	12	361	3.62	164	5	ND	3	52	1	8	2	65	.32	.105	19	27	.70	98	.10	2	2.41	.02	.13	2	35
RB L0W 2+75N	18	288	20	46	.4	12	5	137	5.21	185	5	ND	2	27	1	7	2	96	.15	.054	13	22	.39	72	.14	2	2.56	.02	.05	1	18
RB L0W 2+50N	16	102	8	31	.1	5	3	81	1.35	31	5	ND	1	22	1	2	2	41	.19	.021	11	12	.13	48	.09	3	.66	.01	.06	1	26
RB L0W 2+25N	23	795	64	78	2.1	17	8	194	4.86	335	5	ND	6	41	1	13	2	90	.35	.103	13	25	.48	74	.17	2	2.06	.02	.06	2	545
RB L0W 2+00N	99	4985	88	243	12.8	99	39	473	4.99	726	5	ND	11	53	3	94	2	64	.67	.112	124	19	.85	68	.11	3	1.78	.01	.17	1	395
RB L0W 1+50N	11	785	19	74	1.6	24	15	310	3.01	146	5	ND	16	36	1	11	2	64	.56	.117	32	22	.57	63	.16	2	1.18	.01	.16	2	59
RB L1E 9+00N	6	71	13	65	.2	13	8	496	2.44	53	5	ND	2	94	1	6	2	52	.39	.081	12	18	.52	100	.08	2	1.75	.01	.21	1	63
RB L1E 8+75N	5	73	14	72	.3	14	9	386	2.93	73	5	ND	4	101	1	7	2	65	.50	.097	19	21	.60	106	.09	2	2.18	.02	.17	1	87
RB L1E 8+50N	4	65	11	72	.3	15	11	458	2.81	68	5	ND	5	101	1	8	2	59	.48	.090	19	19	.66	115	.11	2	2.28	.02	.20	1	20
RB L1E 8+25N	5	71	17	71	.2	14	8	332	2.85	71	5	ND	6	96	1	8	2	62	.49	.103	21	21	.64	109	.11	2	2.29	.02	.20	1	69
RB L1E 8+00N	5	62	13	70	.2	14	8	229	2.98	86	5	ND	4	86	1	15	2	61	.37	.094	19	22	.60	101	.10	2	2.47	.03	.14	2	22
RB L1E 7+75N	8	207	16	68	.5	20	10	467	2.91	87	17	ND	3	138	1	7	2	55	.83	.102	22	20	.81	131	.08	2	2.67	.03	.13	1	10
RB L1E 7+50N	12	367	22	81	.7	23	13	614	3.09	99	49	ND	3	126	1	8	2	56	1.05	.108	18	25	.89	131	.10	4	2.66	.03	.21	5	68
RB L1E 7+25N	10	136	13	62	.3	16	10	446	2.93	74	13	ND	2	111	1	7	2	54	.51	.108	17	20	.63	123	.06	2	2.38	.03	.12	3	18
RB L1E 7+00N	6	101	12	54	.3	15	6	203	2.35	59	5	ND	4	98	1	7	2	46	.45	.080	17	16	.58	100	.10	2	1.88	.02	.15	1	25
RB L1E 6+75N	13	268	20	80	1.0	24	10	316	2.93	73	18	ND	4	127	1	5	2	50	.84	.101	16	24	.97	124	.09	3	2.82	.03	.19	6	7
RB L1E 6+50N	8	232	16	65	.4	19	9	296	2.72	75	22	ND	2	126	1	11	2	50	.86	.090	17	19	.76	120	.06	4	2.46	.03	.10	3	15
STD C/AU-S	20	60	41	132	7.6	73	28	1024	4.15	42	21	8	40	52	20	17	22	61	.51	.095	40	59	.94	180	.09	35	1.79	.06	.14	12	48

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB L1E 6+25N	7	69	13	59	.3	12	6	253	2.65	70	5	ND	2	100	1	2	2	54	.40	.074	15	19	.51	92	.08	2	1.78	.02	.11	1	17
RB L1E 6+00N	6	53	11	55	.5	10	6	212	3.23	118	5	ND	2	106	1	4	2	62	.23	.083	12	21	.43	87	.07	2	1.98	.02	.07	1	6
RB L1E 5+75N	6	77	15	62	.3	13	9	361	3.22	125	5	ND	2	121	1	8	2	59	.35	.089	15	20	.60	112	.07	2	2.44	.02	.13	1	11
RB L1E 5+25N	31	39	8	17	.3	7	3	74	2.48	19	5	ND	1	36	1	2	3	62	.27	.048	6	32	.16	54	.05	2	.95	.01	.10	4	4
RB L1E 5+00N	6	79	19	47	.3	9	4	135	5.67	35	5	ND	1	34	1	2	2	82	.18	.108	12	35	.28	79	.06	2	3.38	.02	.04	2	22
RB L1E 4+75N	7	92	15	50	.6	11	6	136	5.29	32	5	ND	1	34	1	2	2	94	.23	.080	11	40	.41	94	.09	2	2.35	.02	.05	2	7
RB L1E 4+50N	17	309	21	60	.5	13	6	229	3.43	124	35	ND	2	70	1	3	3	59	.31	.130	23	27	.54	104	.05	2	3.20	.03	.06	3	1
RB L1E 4+25N	12	119	16	61	.5	10	7	352	3.27	68	5	ND	1	115	1	2	2	61	.42	.101	12	21	.41	77	.07	5	1.90	.02	.09	3	21
RB L1E 4+00N	8	220	18	95	.8	21	11	602	2.79	63	9	ND	3	135	1	4	2	48	1.24	.100	14	24	.86	121	.09	3	2.49	.01	.23	1	7
RB L1E 3+75N	11	207	19	59	.6	16	8	403	2.60	67	15	ND	1	107	1	3	2	45	.76	.103	15	22	.61	100	.05	3	2.22	.02	.09	4	41
RB L1E 3+50N	9	100	13	38	.4	10	5	104	3.69	36	5	ND	2	33	1	2	2	82	.27	.048	8	39	.31	87	.13	2	1.38	.02	.06	4	12
RB L1E 3+25N	20	179	15	37	1.3	11	4	91	3.49	35	5	ND	3	31	1	2	2	57	.30	.087	13	35	.33	62	.10	3	2.17	.02	.05	2	24
RB L1E 3+00N	10	232	14	48	1.0	12	4	124	2.02	55	16	ND	2	113	1	3	2	36	1.04	.104	17	19	.47	106	.04	2	2.05	.01	.07	5	13
RB L1E 2+75N	9	1216	22	86	.7	27	18	277	3.40	82	5	ND	12	63	1	2	2	64	.55	.076	19	32	.73	85	.18	3	2.72	.02	.15	1	50
RB L1E 2+50N	26	1842	16	44	2.9	20	7	141	5.34	134	5	ND	20	24	1	2	3	85	.21	.108	16	45	.39	55	.14	5	3.43	.02	.05	4	2350
RB L1E 2+25N	19	1181	28	41	1.9	9	3	103	7.20	88	5	ND	10	17	1	2	2	92	.12	.145	11	42	.21	55	.16	2	4.69	.02	.02	1	485
RB L1E 2+00N	16	1159	26	39	1.6	10	4	165	6.27	101	5	ND	13	16	1	2	2	96	.11	.114	12	40	.22	42	.14	2	4.52	.02	.04	3	540
RB L1E 1+75N	7	40	5	12	.5	4	2	39	2.04	13	5	ND	1	13	1	2	3	60	.07	.023	7	33	.03	22	.03	2	.39	.01	.03	1	173
RB L1E 1+50N	14	39	8	21	.3	5	3	62	2.52	31	5	ND	1	27	1	4	4	77	.13	.027	8	31	.09	37	.12	12	.61	.02	.05	1	79
RB L1E 1+25N	43	1453	35	44	6.0	13	5	111	3.79	313	5	ND	3	19	1	42	3	73	.21	.085	10	27	.31	34	.10	2	1.52	.01	.04	2	1780
RB L1E 1+00N	7	431	29	113	1.1	17	10	278	2.89	130	5	ND	1	46	1	7	2	62	.33	.084	12	27	.52	82	.07	2	1.53	.02	.09	2	96
RB L1E 0+25N	17	257	19	61	.3	15	8	289	3.09	115	6	ND	6	45	1	3	2	60	.49	.103	18	27	.50	70	.12	29	1.66	.03	.11	6	40
RB L1E 0+00N	10	194	36	60	.8	10	5	153	2.86	89	6	ND	2	44	1	3	2	57	.39	.095	13	24	.36	52	.10	2	1.54	.01	.06	1	37
RB L2E 9+25N	2	62	12	41	.3	10	5	254	2.48	12	5	ND	1	37	1	2	2	50	.21	.101	10	26	.41	82	.07	2	2.11	.02	.08	3	8
RB L2E 9+00N	9	73	10	46	.4	9	4	146	2.16	37	5	ND	2	34	1	2	2	49	.29	.096	10	28	.39	74	.10	25	1.87	.03	.07	3	6
RB L2E 8+25N	7	302	18	55	.4	17	5	146	2.76	36	5	ND	2	80	1	2	2	56	.35	.147	14	33	.53	84	.08	3	2.22	.02	.13	1	41
RB L2E 8+00N	4	178	15	56	.2	16	6	181	3.69	31	5	ND	4	28	1	2	2	67	.26	.091	14	35	.63	76	.13	2	2.82	.02	.11	3	12
RB L2E 7+75N	2	201	8	32	.5	7	3	90	1.77	10	5	ND	1	34	1	2	2	37	.25	.072	10	24	.27	70	.07	27	1.67	.02	.07	2	44
RB L2E 7+50N	4	31	13	20	.3	3	1	52	1.38	17	5	ND	1	23	1	4	3	35	.11	.050	8	14	.08	43	.07	2	.92	.01	.04	3	18
RB L2E 7+25N	3	48	8	30	.2	15	2	72	1.44	12	5	ND	1	23	1	3	2	35	.13	.052	7	43	.33	44	.10	2	1.07	.01	.10	3	7
RB L2E 7+00N	9	81	11	43	.3	8	5	420	2.87	25	5	ND	2	34	1	2	2	56	.21	.089	10	29	.28	72	.09	5	2.13	.02	.06	5	7
RB L2E 6+75N	6	85	9	40	.5	6	3	160	2.07	17	5	ND	1	48	1	3	2	44	.25	.105	8	20	.22	78	.06	2	1.48	.01	.09	12	10
RB L2E 6+50N	3	22	6	19	.5	2	1	50	1.04	11	5	ND	1	21	1	4	4	31	.28	.081	8	14	.08	49	.01	8	1.37	.01	.04	2	52
RB L2E 6+25N	6	70	10	40	.3	10	5	166	5.30	23	5	ND	4	25	1	2	2	96	.21	.073	12	54	.30	67	.14	2	3.37	.01	.07	1	10
RB L2E 6+00N	27	42	13	49	.4	6	3	304	1.91	35	5	ND	1	62	1	2	3	48	.28	.069	9	24	.21	96	.12	2	1.29	.01	.10	3	8
RB L2E 5+50N	14	81	19	43	.7	8	3	135	5.24	49	5	ND	2	31	1	3	2	89	.12	.084	12	25	.22	69	.07	7	2.11	.01	.05	6	11
STD C/AU-S	20	62	41	133	6.9	72	28	1026	4.13	43	16	8	40	52	20	15	22	61	.51	.095	40	64	.94	181	.09	35	1.78	.06	.15	12	52

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RB L2E 5+25N	5	27	9	31	.3	5	3	193	2.02	11	5	ND	2	24	1	2	2	54	.14	.048	8	29	.15	82	.04	2	.91	.01	.07	1	19
RB L2E 5+00N	6	139	14	44	.1	12	6	183	3.86	29	5	ND	2	38	1	2	2	80	.27	.082	12	35	.43	89	.09	3	1.53	.02	.07	9	68
RB L2E 4+75N	7	68	12	43	.2	9	5	252	3.92	25	5	ND	1	39	1	2	2	75	.20	.119	8	33	.29	94	.06	2	1.50	.02	.05	9	6
RB L2E 4+50N	7	109	13	67	.2	11	5	238	3.88	25	5	ND	1	43	1	2	2	70	.24	.140	9	31	.39	111	.03	2	1.97	.02	.07	5	15
RB L2E 4+25N	25	97	16	43	.3	7	3	152	2.73	52	5	ND	1	62	1	2	3	52	.52	.110	10	18	.20	124	.02	2	1.60	.01	.05	2	11
RB L2E 4+00N	15	105	14	38	.5	10	5	131	5.19	51	5	ND	3	37	1	2	2	79	.23	.064	13	33	.39	105	.14	2	2.31	.02	.03	3	6
RB L2E 3+75N	22	224	16	48	.2	10	15	607	2.29	99	19	ND	4	58	2	2	2	46	.45	.102	35	14	.45	74	.10	3	2.59	.01	.07	1	21
RB L2E 3+50N	14	63	6	46	.1	10	6	210	3.38	36	5	ND	3	39	1	2	2	79	.28	.034	9	23	.50	60	.19	3	1.55	.02	.05	1	9
RB L2E 3+25N	18	53	15	46	1.5	7	4	149	3.18	28	5	ND	2	37	1	2	2	63	.28	.045	8	21	.24	75	.14	3	1.32	.01	.06	1	24
RB L2E 3+00N	16	16	10	19	.4	3	2	53	2.29	15	5	ND	1	28	1	2	2	75	.14	.022	7	24	.05	53	.16	2	.62	.01	.02	1	51
RB L2E 2+75N	6	11	6	21	.1	3	2	38	2.06	7	5	ND	1	26	1	2	2	70	.17	.026	8	31	.05	36	.10	2	.60	.01	.03	1	37
RB L2E 2+50N	12	15	7	21	.1	5	3	54	2.99	22	5	ND	1	21	1	2	3	93	.13	.031	6	49	.08	34	.17	3	.48	.01	.04	1	16
RB L2E 2+00N	41	37	8	29	.1	5	2	56	2.45	54	5	ND	1	20	1	2	2	67	.13	.045	8	16	.14	64	.11	4	.73	.01	.04	1	13
STD C/AU-S	21	62	42	133	7.6	73	30	1050	4.32	40	18	8	40	54	19	18	21	61	.53	.097	41	61	.95	179	.09	36	1.86	.06	.14	12	53
RB L2E 1+50N	18	33	14	26	.6	3	1	43	1.47	30	5	ND	1	38	1	2	3	39	.27	.033	9	14	.06	64	.04	2	.81	.01	.03	2	129
RB L2E 1+25N	26	82	16	55	1.3	10	5	134	4.82	51	5	ND	5	33	2	2	3	81	.24	.085	10	40	.32	67	.15	3	2.03	.02	.06	1	17
RB L2E 1+00N	22	259	15	66	.9	13	8	443	3.01	184	22	ND	4	47	1	2	2	51	.56	.164	25	18	.44	65	.07	3	2.32	.01	.11	9	34
RT 10+00N	11	440	22	71	.6	25	11	293	4.47	304	5	ND	7	158	2	3	2	71	1.10	.128	17	31	.70	90	.08	3	2.43	.01	.20	5	105
RT 9+50N	9	201	33	66	.4	21	9	368	4.09	91	5	ND	7	168	1	2	2	66	1.17	.106	16	29	.65	86	.08	2	2.45	.01	.20	6	31
RT 9+00N	9	308	16	58	.3	14	8	404	3.12	20	5	ND	9	158	1	2	2	53	.99	.090	16	25	.53	128	.04	2	2.30	.01	.11	18	35
RT 8+50N	5	117	19	54	.1	15	7	299	2.85	25	5	ND	7	172	1	2	2	55	1.48	.094	15	28	.64	86	.08	4	2.57	.01	.18	2	9
RT 8+00N	5	178	21	57	.4	14	6	252	2.69	10	5	ND	8	208	1	2	2	53	1.70	.087	14	23	.59	94	.06	2	3.05	.01	.20	11	6
RT 7+50N	6	235	18	74	.5	13	7	333	2.45	8	5	ND	3	185	2	2	3	46	1.50	.115	16	20	.61	166	.04	3	2.77	.01	.15	3	11
RT 7+00N	5	153	23	72	.5	17	9	505	3.31	11	6	ND	10	231	1	2	2	66	1.57	.121	14	29	.74	149	.07	2	3.36	.01	.19	4	38
RT 6+50N	3	58	17	55	.5	8	6	581	2.34	7	5	ND	2	148	1	2	2	61	1.08	.140	9	25	.38	134	.02	2	2.29	.01	.17	1	10
RT 6+00N	3	58	14	68	.1	12	6	421	2.82	9	5	ND	2	138	1	2	2	62	.97	.127	11	24	.68	137	.04	2	2.31	.01	.14	1	2
RT 5+50N	6	156	18	72	.4	24	9	301	3.05	61	6	ND	8	174	1	2	2	60	1.61	.128	19	29	.79	109	.10	2	2.93	.01	.18	1	8
RT 5+00N	6	168	24	73	.4	21	9	323	3.46	57	5	ND	5	191	1	2	2	63	1.57	.092	14	28	.81	110	.08	21	3.25	.01	.25	1	7
RT 4+50N	1	51	16	58	.2	13	8	318	2.83	6	5	ND	15	143	1	2	2	63	1.42	.104	15	32	.76	94	.12	2	2.36	.01	.21	1	2
RT 4+00N	2	64	9	41	.1	8	4	97	1.73	2	5	ND	3	174	1	2	2	39	1.14	.062	12	30	.44	152	.04	16	2.99	.03	.08	1	6
RT 3+50N	2	50	10	57	.3	9	4	295	2.34	7	5	ND	3	182	1	2	2	59	1.41	.072	10	34	.53	98	.05	2	3.15	.01	.18	1	3
RT 3+00N	1	41	8	49	.2	10	5	258	2.17	2	5	ND	12	223	1	2	2	49	2.20	.086	11	19	.52	67	.05	12	3.18	.01	.22	1	1
RT 2+50N	1	83	18	74	.4	13	9	338	2.75	32	5	ND	24	251	1	2	2	57	2.68	.089	14	26	.88	57	.08	2	3.44	.01	.22	1	8
RT 2+00N	3	55	9	59	.3	14	8	242	3.41	13	5	ND	18	193	1	2	2	84	1.99	.102	16	40	.66	73	.12	27	2.60	.01	.24	1	6
RT 1+50N	3	63	12	55	.1	11	8	265	2.41	21	5	ND	11	237	1	2	2	55	2.78	.100	14	27	.66	58	.12	2	3.64	.01	.22	1	4
RT 1+00N	13	71	16	58	.2	11	6	242	2.70	20	6	ND	3	149	1	2	2	65	1.15	.082	12	31	.51	108	.09	2	2.68	.01	.13	1	3
RT 0+50N	18	106	14	70	.3	12	7	311	2.93	29	5	ND	3	158	1	2	2	70	1.22	.089	12	31	.60	103	.09	3	2.76	.01	.14	1	7

SOUTHERN GOLD RESOURCES PROJECT-RD FILE # 87-2859

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU* PPB
RT 0+00N	28	65	26	69	.4	12	7	635	2.72	21	8	ND	4	175	1	4	2	60	1.31	.096	13	30	.55	92	.08	2	2.34	.01	.17	5	3
RT 0+00S	7	344	25	59	.5	11	7	407	3.14	10	28	ND	10	122	1	2	2	80	.97	.115	17	39	.49	111	.06	2	1.59	.01	.10	7	14
RT 0+50S	32	85	22	70	.2	12	7	387	3.00	23	5	ND	2	104	1	2	2	64	.27	.076	9	26	.49	87	.08	2	1.55	.02	.07	5	10
RT 1+00S	35	112	23	51	.5	9	5	180	2.56	8	5	ND	2	347	1	3	2	61	.56	.076	9	24	.44	156	.08	2	1.74	.02	.11	6	4
RT 1+50S	16	45	18	63	.4	7	3	230	2.04	14	5	ND	1	71	1	2	3	46	.32	.094	6	21	.30	92	.03	2	1.56	.01	.06	3	13
RT 2+00S	12	666	19	63	.9	10	5	311	2.35	16	5	ND	9	70	1	8	2	51	.66	.118	18	24	.46	213	.05	2	1.02	.01	.09	82	32
RT 2+50S	3	318	17	59	.4	10	6	255	2.80	7	5	ND	8	51	1	2	2	69	.48	.094	15	34	.47	92	.09	2	1.01	.01	.14	95	39
RT 3+00S	5	69	17	40	.3	8	5	361	2.32	9	5	ND	2	36	1	2	2	56	.28	.091	9	24	.42	85	.09	12	1.45	.02	.11	10	4
RT 3+50S	2	207	20	61	.6	11	6	341	2.78	8	5	ND	11	48	1	2	2	65	.48	.112	13	31	.51	88	.10	2	.99	.02	.13	10	15
RT 4+00S	2	231	16	69	.5	10	6	297	2.37	13	5	ND	13	54	1	2	2	51	.55	.103	13	23	.53	76	.10	2	.91	.02	.14	9	6
RT 4+50S	5	683	8	45	.8	11	6	244	3.39	8	5	ND	16	27	1	2	2	75	.42	.092	14	32	.46	79	.08	2	.71	.01	.10	42	74
RT 5+00S	6	783	12	57	.8	14	7	322	3.39	10	5	ND	14	47	1	2	2	70	.59	.101	17	31	.62	111	.10	2	1.12	.01	.12	29	100
RT 6+00S	1	90	4	37	.2	9	4	165	1.94	50	5	ND	9	48	1	2	2	43	.88	.116	9	15	.44	26	.09	2	1.30	.01	.10	2	7
RT 6+50S	2	134	9	43	.3	14	8	215	2.71	129	5	ND	13	51	1	2	2	55	1.06	.129	12	19	.59	34	.12	2	1.56	.01	.19	3	8
RT 7+00S	23	348	32	103	.8	34	24	334	9.80	230	5	ND	14	58	1	11	2	97	.46	.168	17	44	1.26	73	.19	2	2.09	.03	.46	4	11
RT 8+00S	12	834	24	89	.8	36	20	423	5.68	135	5	ND	14	102	1	8	2	80	.88	.142	12	28	1.10	80	.13	6	1.91	.02	.26	1	17
RT 8+50S	9	1074	28	103	1.4	41	18	439	5.20	155	7	ND	12	260	1	7	2	79	1.43	.145	14	26	1.08	121	.12	2	2.48	.01	.21	2	40
RT 9+00S	18	456	42	162	1.0	119	43	599	7.55	758	5	ND	9	39	1	17	2	97	.42	.137	11	62	1.42	160	.17	2	1.98	.03	.52	15	38
RT 9+50S	17	559	47	148	1.1	109	43	755	7.35	677	6	ND	9	58	1	18	2	100	.51	.141	10	70	1.59	170	.18	16	2.60	.03	.51	12	54
RT 10+00S	16	644	26	164	1.1	164	62	1033	8.71	921	6	ND	8	36	1	29	2	108	.27	.128	9	66	1.68	180	.18	2	2.66	.03	.57	21	99
RT 10+50S	28	937	20	142	1.2	151	63	1064	8.88	1062	7	ND	7	33	1	24	2	100	.20	.115	8	69	1.58	185	.15	2	2.64	.03	.50	19	98
RT 11+00S	30	648	20	129	.7	122	48	801	7.68	873	5	ND	6	38	1	15	2	92	.30	.116	7	70	1.47	160	.14	12	2.36	.02	.39	12	71
RT 11+50S	16	594	23	176	.7	108	42	947	6.43	636	8	ND	7	65	1	17	2	90	.46	.113	10	61	1.37	171	.12	2	2.27	.02	.31	3	56
RT 12+00S	12	535	27	159	.6	78	32	746	5.67	388	5	ND	7	96	1	10	2	83	.53	.111	13	48	1.22	157	.12	10	2.03	.02	.27	1	290
RT 12+50S	19	600	37	134	.8	57	36	805	7.51	697	6	ND	10	166	1	15	2	76	.36	.129	16	26	1.08	178	.11	2	1.94	.02	.17	12	63
RT 13+00S	18	374	57	177	.6	78	26	632	6.31	1017	6	ND	3	62	1	18	2	75	.22	.111	11	34	.97	120	.06	2	2.32	.02	.15	4	42
RT 13+50S	19	481	66	196	.7	94	36	756	6.90	1384	5	ND	6	91	2	24	2	77	.34	.121	14	29	1.10	135	.07	2	2.14	.02	.18	5	56
RT 14+00S	18	560	77	218	.8	98	48	989	7.43	1695	5	ND	10	120	2	32	2	76	.57	.121	13	34	1.22	141	.10	3	2.06	.02	.27	3	67
RT 14+50S	19	709	85	223	1.0	65	30	772	6.49	1518	7	ND	8	75	2	42	2	72	.40	.121	17	27	1.00	123	.07	12	1.87	.02	.17	5	260
RT 15+00S	22	1081	85	209	1.3	33	21	718	6.70	1183	5	ND	9	87	2	47	2	85	.41	.141	35	28	.94	118	.12	13	1.74	.02	.21	16	270
RT 15+50S	34	1831	115	293	3.0	47	39	826	7.50	2564	8	ND	14	119	4	92	3	75	.55	.142	45	20	.99	119	.12	17	1.60	.02	.25	15	170
RT 16+00S	21	920	66	161	1.4	34	20	544	5.66	1279	5	ND	7	94	1	27	2	71	.34	.115	19	22	.83	77	.11	2	1.73	.02	.17	49	151
RT 16+75S	94	861	191	145	2.6	31	35	405	9.77	3997	12	ND	14	79	1	71	2	70	.26	.133	19	19	.80	67	.10	2	1.55	.02	.22	100	142
RT 17+00S	48	888	120	173	1.6	75	24	558	10.25	1276	5	ND	13	125	1	44	2	100	.41	.162	18	21	.89	51	.11	2	1.95	.03	.26	37	91
RT 17+50S	53	663	129	192	1.5	71	22	506	11.17	1321	5	ND	12	117	1	40	2	98	.43	.161	18	23	.94	46	.10	2	1.90	.02	.30	46	52
RT 18+00S	35	633	916	263	11.1	22	13	317	11.92	1430	8	ND	13	142	1	62	2	86	.43	.176	21	13	.67	31	.05	2	1.69	.01	.15	37	35
STD C/AU-S	19	60	40	133	7.7	72	29	1031	4.18	37	21	8	40	54	20	17	20	61	.52	.098	41	58	.93	181	.09	35	1.80	.06	.14	14	49

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU# PPB
RT 19+85S	12	305	450	231	2.9	29	13	710	5.76	545	5	ND	3	67	1	23	2	76	.35	.176	15	22	.68	63	.06	2	2.03	.02	.14	13	21
TR 17+50N	14	322	65	97	1.0	17	6	207	2.87	130	8	ND	4	74	1	6	2	54	.75	.116	17	23	.55	57	.08	3	2.24	.01	.13	6	58
TR 17+00N	7	241	16	59	.7	15	7	500	3.84	64	5	ND	3	82	1	2	2	70	.77	.111	17	28	.52	49	.06	2	2.02	.01	.13	2	29
TR 16+50N	3	143	14	57	.3	10	6	234	3.00	23	5	ND	7	150	1	2	2	65	1.37	.074	18	25	.45	40	.09	2	3.13	.01	.18	4	2
TR 16+00N	4	125	19	66	.6	11	6	295	3.44	44	5	ND	2	112	1	3	2	74	1.06	.090	11	29	.53	76	.06	28	2.27	.01	.14	3	10
TR 15+50N	5	219	14	56	.5	12	8	325	3.47	83	5	ND	9	102	1	2	2	74	1.23	.108	20	30	.66	63	.13	2	2.27	.01	.24	2	27
TR 15+00N	4	251	11	56	.4	13	9	335	3.89	91	5	ND	17	98	1	2	2	85	1.31	.114	21	36	.64	57	.13	2	2.13	.01	.27	2	39
TR 14+50N	8	411	18	74	1.2	12	8	316	4.32	28	8	ND	13	111	1	2	2	94	1.26	.100	19	38	.63	44	.11	3	1.98	.01	.24	4	143
TR 14+00N	5	152	16	39	.7	7	5	141	3.01	22	5	ND	1	70	1	4	2	67	.72	.105	11	31	.41	60	.08	2	2.10	.01	.16	3	40
TR 13+50N	6	130	14	53	.3	13	8	351	3.59	14	5	ND	9	69	1	2	2	78	.90	.105	20	33	.60	55	.12	3	1.81	.01	.22	2	1
TR 13+00N	6	136	13	55	.4	13	8	378	3.83	14	16	ND	11	99	1	2	2	85	1.12	.104	22	39	.57	57	.12	2	2.20	.01	.20	4	1
TR 12+50N	5	138	14	52	.5	15	8	299	3.75	4	5	ND	13	105	1	2	2	82	1.20	.095	18	39	.57	67	.11	2	1.95	.01	.25	2	1
TR 12+00N	6	214	18	55	.5	12	7	225	3.29	10	8	ND	7	93	1	2	2	68	1.03	.103	17	31	.52	77	.09	2	1.87	.01	.17	3	1
TR 11+50N	7	154	27	52	.5	15	6	283	2.96	21	12	ND	6	187	1	2	2	53	1.41	.115	15	27	.55	86	.05	2	3.16	.01	.19	4	6
TR 11+00N	6	165	16	53	.4	13	6	264	2.25	14	5	ND	5	160	1	2	2	43	1.12	.087	14	24	.48	93	.04	2	2.43	.01	.15	2	3
STD C/AU-S	20	61	44	132	7.4	71	29	1022	4.14	38	22	7	40	52	19	17	21	60	.51	.093	40	65	.93	180	.09	35	1.79	.06	.15	15	47

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL/ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA AND K. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock Chips AU** BY FIRE ASSAY

DATE RECEIVED: JULY 30 1987 DATE REPORT MAILED: Aug 8/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

SOUTHERN GOLD RESOURCES PROJECT-RD File # 87-2859A

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU** OZ/T
RD-16R	4	700	43	99	3.7	105	13	1016	18.87	35	5	ND	13	35	2	11	2	199	3.78	.013	21	7	1.13	3	.02	2	1.78	.01	.06	1	.004
RD-17R	161	37118	52	389	56.5	68	21	467	16.56	1007	5	7	12	35	6	13	12	158	3.03	.132	54	1	.98	43	.02	2	1.18	.01	.21	1	.159
RD-18R	25	39642	20	165	34.5	1210	415	172	12.84	11464	6	13	32	6	4	9	123	43	.36	.087	455	7	.71	9	.01	27	1.92	.03	.14	1	.496
RD-19R	290	13572	22	103	76.3	8	4	59	29.68	842	5	4	7	3	2	7	21	30	.20	.027	82	1	.13	6	.02	2	.25	.02	.05	1	.213
RD-20R	55	2745	10	39	11.3	20	16	87	5.57	592	5	ND	12	16	1	5	4	24	.46	.131	45	5	.19	28	.11	3	.61	.05	.09	2	.032
RD-21R	282	22648	15	103	25.6	15	11	125	11.33	745	5	2	10	5	2	2	9	40	.39	.084	178	4	.29	15	.03	2	.68	.02	.10	1	.103
RD-22R	1012	2285	13	52	1.9	123	30	191	32.60	41	5	ND	5	9	1	2	2	278	.54	.005	40	1	.50	3	.04	2	.44	.01	.04	1	.002
RD-23R	735	1384	22	77	1.9	74	14	121	38.39	67	5	ND	3	10	2	5	2	204	.50	.058	9	1	.19	3	.04	2	.19	.01	.03	6	.002
RD-24R	336	20575	23	89	29.4	203	28	490	34.09	87	5	ND	2	30	4	2	2	196	10.64	.002	4	1	.52	3	.03	2	.69	.20	.03	2	.009
RD-25R	465	1003	21	75	1.7	98	7	206	19.45	25	5	ND	17	11	1	2	2	184	.45	.082	134	8	.47	13	.07	2	.67	.04	.12	1	.001
RD-26R	690	34237	17	132	37.3	245	17	69	32.45	109	5	ND	7	5	4	2	2	163	.27	.071	38	1	.29	4	.02	2	.34	.02	.07	1	.013
RD-27R	634	660	15	58	2.1	70	12	131	24.28	9	5	ND	9	14	1	2	2	342	.30	.012	100	4	.15	6	.07	2	.47	.05	.06	6	.001
RD-28R	769	22139	20	93	22.3	41	38	515	29.31	45	5	5	15	19	3	13	2	103	.57	.092	183	2	.19	62	.01	5	.52	.01	.12	3711	.129
RD-29R	112	64525	33	169	20.9	194	279	424	37.88	112	5	ND	3	5	7	8	17	29	.19	.004	2	1	.07	3	.01	2	.05	.01	.01	199	.119
RD-30R	362	84216	41	217	29.1	92	126	991	37.19	108	206	ND	6	7	8	9	44	63	.68	.026	18	1	.27	6	.01	3	.27	.01	.02	191	.136
RD-31R	1	593	19	34	.1	63	9	160	49.24	23	5	ND	12	1	3	6	11	613	.30	.006	2	25	.08	4	.01	2	.14	.01	.01	54	.001
RD-32R	353	981	12	33	2.0	6	5	93	12.91	3454	5	ND	4	27	1	2	2	55	.08	.077	12	49	.15	68	.09	6	.58	.02	.08	12	.001
RD-32RA	78	20936	19	142	10.6	52	50	195	44.53	38	5	ND	5	3	4	94	2	168	.05	.007	3	28	.09	13	.01	5	.17	.02	.04	388	.014
RD-33R	42	562	11	12	.6	3	11	88	7.13	2032	25	ND	11	3	1	2	2	10	.02	.026	9	9	.02	32	.01	20	.22	.01	.13	166	.001
RD-33RA	168	77081	39	219	27.3	80	68	133	30.59	54	106	ND	3	4	7	109	23	43	.16	.028	5	1	.11	8	.01	2	.11	.02	.01	40	.046
RD-34R	153	8448	8	57	5.8	55	135	248	15.85	12	5	ND	9	13	1	5	2	18	.79	.060	4	2	.11	9	.01	12	.27	.01	.17	34	.011
RD-34RA	156	487	12	20	2.1	13	13	62	5.06	1092	59	ND	8	36	1	6	2	20	.04	.036	7	19	.05	27	.01	56	.29	.02	.12	35	.001
RD-35R	30	58493	26	131	11.6	45	13	136	20.93	2	60	ND	5	6	5	2	11	69	.06	.008	3	8	.15	7	.01	7	.22	.02	.03	96	.048
RD-35RA	1095	32403	12	141	39.6	10	7	214	17.12	897	5	14	3	12	3	2	20	39	1.08	.158	36	1	.37	36	.03	2	.74	.06	.27	1	.263
RD-37R	712	41445	17	146	47.6	16	14	102	13.49	478	5	ND	29	10	4	2	2	65	1.14	.322	652	8	.38	4	.02	2	.48	.01	.03	1	.065
RD-38R	60	1372	5	22	1.0	5	15	152	3.67	427	5	ND	10	11	1	3	2	39	.32	.064	31	10	.36	20	.12	5	.85	.05	.08	6	.001
RD-39R	28	99999	49	1093	64.9	267	55	57	32.83	241	5	ND	3	3	18	2	148	1	.42	.155	4	1	.11	5	.01	2	.61	.02	.03	1	.018
RD-40R	426	515	21	8	4.6	34	8	22	6.50	1277	5	ND	3	4	1	5	2	1	.01	.019	2	1	.02	4	.01	84	.04	.01	.01	5	.001
RD-41R	238	1228	7	9	1.6	2	1	27	2.20	499	5	ND	1	4	1	4	2	4	.03	.012	2	3	.03	5	.01	89	.07	.01	.03	3	.002
RD-42R	203	604	9	9	.8	2	1	28	3.90	137	5	ND	2	5	1	2	2	3	.01	.010	2	2	.02	54	.01	79	.10	.02	.03	28	.001
RD-43R	639	427	20	14	.6	2	2	22	11.80	536	5	ND	4	4	1	53	2	4	.01	.076	4	1	.03	16	.01	47	.15	.01	.04	134	.001
RD-44R	168	15299	29	66	5.3	18	16	42	22.34	915	5	ND	6	11	2	75	2	2	1.30	.580	3	1	.04	5	.01	39	.15	.01	.02	277	.001
RD-45R	10	457	5	14	.2	42	13	46	4.22	50	5	ND	3	49	1	2	2	26	.46	.032	4	17	.76	49	.02	3	1.80	.15	.26	7	.001
RD-46R	136	7410	61	94	10.9	165	43	186	27.33	890	9	ND	4	13	2	416	2	4	.65	.262	14	1	.18	2	.01	20	.04	.01	.03	4	.001
RD-47R	462	915	22	11	2.7	1	2	25	11.03	3528	5	ND	4	3	1	140	2	2	.07	.249	2	1	.02	6	.01	28	.03	.01	.02	808	.001
RD-48R	152	4414	9	22	1.8	43	31	87	6.46	2187	5	ND	4	8	1	13	5	5	.15	.082	2	2	.09	17	.01	65	.18	.01	.03	191	.006
STD C	19	56	41	133	7.1	70	28	929	4.08	35	19	7	37	50	18	15	17	58	.51	.088	37	58	.92	176	.08	33	1.79	.06	.13	14	-

- ASSAY REQUIRED FOR CORRECT RESULT -for Mo >1000 ppm
Cu >10,000 ppm
Ag > 35 ppm

ACME ANALYTICAL LABORATORIES DATE RECEIVED: SEPT 1 1987
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011 DATE REPORT MAILED: Sept. 10/87

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp

ASSAYER: D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

SOUTHERN GOLD RESOURCES PROJECCT-RD File # 87-2859 R Page 1

SAMPLE#	CU %	PB %	ZN %	AS %	AG OZ/T
A-16	1.29	.16	.47	.57	6.69
A ROCK TALUS #1	.11	.39	.20	.02	.95
A ROCK TALUS #2	.25	.01	.02	.01	.16
A ROCK TALUS #3	.01	.01	.01	.01	.03
A ROCK TALUS #4	.06	.01	.01	.02	.14
A ROCK TALUS #5	.48	.01	.01	14.63	.13
R-1	5.65	.02	.27	.26	8.58
R-2	6.98	.17	1.00	.31	5.81
R-3	.79	.14	.36	.04	.81
R-4	1.39	.34	.21	.14	5.19
R-5	.20	.01	.02	.05	.29
R-6	2.23	.01	.06	.10	3.97
R-7	1.57	.02	.05	.05	.97
R-8	2.21	.01	.05	.11	.87
R-9	3.34	.05	.10	.19	3.81
R-10	4.20	.08	.10	.24	5.09
R-11	7.61	.03	.10	.12	1.82
R-12	6.78	.63	4.36	.16	12.83
R-13	2.72	.13	.75	.06	1.77
R-14	2.84	.67	6.10	.13	6.48
R-15	6.05	5.44	2.82	.19	11.93
R-16	2.81	.67	4.22	.06	4.94
R-17	17.65	.96	.57	.07	4.17
R-18	13.50	.06	.32	.04	2.02
RA-1	1.31	.12	.11	.11	2.65
RA-11	1.72	.02	.10	.25	5.80
RA-12	1.50	.08	.18	.13	3.08
RA-13	4.77	.15	.92	.18	2.42
RA-14	1.69	.01	.06	.26	.78
RA-16	2.49	.06	.23	.26	4.34
RA-17	3.83	.18	.30	.13	1.81
RA-29/30	2.51	.28	.36	.23	11.56
RA-32	5.19	.01	.05	.10	1.30
RA-41	5.35	.01	.05	.29	4.15
RA-42	3.85	.02	.08	.17	5.77
RA-90	1.43	1.58	.67	.71	4.80
RA-101	2.92	.02	.11	.11	9.42

SAMPLE#	CU %	PB %	ZN %	AS %	AG OZ/T
ROCK TALUS 8+75N	.01	.01	.02	.01	.01
ROCK TALUS 8+50N	2.58	.01	.02	.04	.17
ROCK TALUS 8+40N	1.88	.01	.04	9.76	1.13
ROCK TALUS 4+70N	.01	.02	.03	.01	.06
RT ROCK 1+75S	.63	.01	.01	.14	.18
RT ROCK 3+80S	.89	.01	.01	.01	.37
RT ROCK 5+00S	1.02	.01	.01	.01	.09
RT ROCK 7+00S	.53	.01	.01	.15	.16
RT ROCK 12+50S	.03	.01	.01	.04	.01
RT ROCK 2+15S	1.31	.01	.04	.01	.15
RVJ-1	.01	.01	.01	24.09	.16
RVJ-2	.02	.01	.01	8.21	.40
RVJ-3	.01	.01	.01	2.95	.01
RWU-55	2.63	.08	.98	.21	5.35
RWU-75	3.16	.06	.19	.14	2.59
RWU-77	1.73	.02	.05	.04	1.86
NO NUMBER	1.46	.01	.02	.17	1.25

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: SEPT 2 1987
DATE REPORT MAILED: Sept. 14/87.

GEOCHEMICAL ICP-MS ANALYSIS

10 GRAM SAMPLE FIRE ASSAY AND ANALYSIS BY ICP MASS SPECTROMETER.
- SAMPLE TYPE: Pulp

ASSAYER: D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER

SOUTHERN GOLD PROJECT-RD File # 87-3514 R

SAMPLE#	Pt PPB	Pd PPB	Rh PPB
RB-L4W 1+75N	2	2	2
RD #1R	2	5	2
RD #5R	2	3	2
RD #7R	2	9	2
RD #13R	2	13	2
R-1	2	50	2
R-7	2	4	2
R-17	2	6	2
RA-101	2	2	2
RVJ-1	2	53	2
RVJ-2	2	16	2

ACME ANALYTICAL LABORATORIES 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

ASSAY CERTIFICATE

- SAMPLE TYPE: Rock Chips

DATE RECEIVED: AUG 28 1987 DATE REPORT MAILED: Sept 7/87 ASSAYER. D. Toye ..DEAN TOYE, CERTIFIED B.C. ASSAYER

SOUTHERN GOLD PROJECT-VIC File # 87-3700

SAMPLE#	MO %	CU %	PB %	ZN %	AG OZ/T	NI %	CO %	AS %	W %	AU** FA OZ/T
VIC 1	.176	.01	.01	.01	.02	.36	.75	7.07	.01	1.230
VIC 2	.099	.01	.01	.01	.07	.70	.55	9.38	.01	1.340
VIC 3	.045	.01	.01	.01	.05	.59	.37	7.48	.01	.511
VIC 4	.027	.01	.01	.01	.01	.01	.01	.15	.01	.006
VIC 5	.001	.01	.01	.01	.01	.01	.02	.06	.01	.008

ACME ANALYTICAL LABORATORIES
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 28 1987
DATE REPORT MAILED: Sept. 4/87...

ASSAY CERTIFICATE

- SAMPLE TYPE: Rock Chips Au** by FA.

ASSAYER: .D. Toye. DEAN TOYE, CERTIFIED B.C. ASSAYER

SOUTHERN GOLD PROJECT-121103 File # 87-3701 Page 1

SAMPLE#	CU %	PB %	ZN %	AG OZ/T	AS %	AU** OZ/T
CN 19	.02	1.40	1.48	1.79	.09	.001
RA 159	4.24	.01	.05	2.43	.10	.066
RA 160	.01	.01	.01	.02	.01	.068
RA 161	.27	.01	.01	.19	.01	.067
RD 101R	.16	.01	.01	.08	.01	.166
RD 102R	.92	.07	.02	.95	.04	.066
RD 103R	.31	.01	.01	.13	.01	.033
RU 3	.07	.01	.01	.02	.01	.001
RU 11	1.28	.01	.01	1.30	.01	.011
RU 12	.97	.01	.02	1.68	.03	.019
RU 13	.01	.01	.01	.05	.01	.002
RU 21	8.76	.09	.13	15.83	.16	1.560
RU 22	10.93	.32	.44	30.60	.26	.722
RU 22A	14.87	.41	.21	28.09	.46	2.289
RU 23	6.37	.06	.19	21.52	.21	.285
RU 24	12.91	.35	.16	41.43	.26	3.825
RU 25	5.80	.05	.18	13.81	.12	1.366
RU 26	5.55	.07	.16	4.48	.05	.355
RU 28	6.87	.07	.18	5.77	.07	.272
RU 28A	11.51	.01	.03	4.62	.04	.356
RU 29	5.06	.02	.12	4.14	.07	.598
RU 29A	3.69	.04	.06	4.50	.04	.072
RU 30	2.95	.32	.39	6.29	.04	.142
RU 30A	15.78	1.38	1.07	49.10	.35	1.225
RU 31	.06	.01	.02	.91	.01	.004
RU 32	.20	.02	.02	.71	.01	.007
RU 33	.01	.01	.01	.01	.01	.003
RU 41	.01	.01	.01	.01	.01	.001
RU 42	.02	.01	.01	.05	.01	.001
RU 44	.01	.01	.01	.01	.01	.001
RU 45	.01	.01	.01	.01	.01	.001
RU 201	3.84	1.05	.44	15.15	.14	.032
RU 202	2.19	.13	.49	18.13	.85	.290
RU 203	2.64	.34	.34	10.18	.17	.042
RU 204	2.10	.11	.03	4.54	1.38	.076
RU 205	4.84	.70	1.66	10.85	.21	.055

SAMPLE#	CU %	PB %	ZN %	AG OZ/T	AS %	AU** OZ/T
RU 2001	5.73	.79	1.34	40.85	.55	.034
RU 2002	1.26	.02	.03	1.85	.05	.032
RU 2003	5.51	.48	1.12	47.73	1.70	2.070
RU 2004	.88	.05	.03	1.95	.10	.037

APPENDIX 2

SAMPLE DESCRIPTIONS

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
# 4 VEIN, 100' LEVEL						
R#6	Location: 25m from portal Sample type: Chip across 85cm HW 15 cm Grd 60 cm MS-Hb vein FW 10 cm sheared quartz vein	2.23	.01	.06	3.97	0.004
R#5	Location: 30 m from portal Sample type: Chip across 60 cm HW 10 cm Grd, minor disseminated Cpy FW 50 cm Hb-Cpy vein, minor Qtz	.20	.01	.02	.29	0.004
#4 VEIN, 1200' LEVEL						
RU#41	Location: 1204 E Drift Sample type: Chip across 1.2 m Aphanitic dyke, NVM	0.01	0.01	0.01	0.01	0.001
RU#42	Location: 1204 E Drift Sample type: Chip across 75 cm of #4 vein with NVM HW 25 cm aphanitic dyke 18 cm Hb-Fsp dyke FW 32 cm altered Granidiorite	0.02	0.01	0.01	0.05	0.001
RU#43	Location: 1201 Cross cut @ #4 vein Sample type: Chip across 51 cm HW 23 cm aphanitic dyke 8 cm shear zone FW 20 cm Franidionite					
RU#44	Location: 1204 W Drift Sample type: Chip across 63 cm Syenitic dyke	0.01	0.01	0.01	0.01	0.001
RU#45	Location: 1204 W Drift Sample type: Chip across 75 cm Syenitic dyke	0.01	0.01	0.01	0.01	0.001

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
#3 VEIN, 1200' LEVEL						
RU#31	Location: 1201 cross cut @ #3 vein Sample type: Chip across 116 cm Quartz-calcite-chlorite filled shear zone.	0.06	0.01	0.02	0.91	0.004
RU#32	Location: 1201 cross cut @ #3 vein Sample type: Chip across 75 cm Shear zone as in RU#31	0.20	0.02	0.02	0.71	0.007
#2 VEIN, 950' LEVEL						
RD#1R	Location: 950' Portal @0+25E, 2+25N Sample type: Chip samples FW 40 cm altered Granidiorite with massive sulphides (Cpy, Py)	8.09	0.01	0.01	0.92	1.390
RD#2R	80 cm blocky quartz vein, 5-10% Cpy	5.16	0.01	0.02	0.59	0.095
RD#3R	25 cm band of laminated cherty quartz with 5-10% Py	2.77	0.01	0.01	0.26	0.108
RD#4R	140 cm band of relatively unaltered granidiorite with minor Cpy	0.29	0.02	0.04	0.04	0.003
RD#5R	HW 30 cm quartz vein, including 10 cm gouge with Cpy, Py, Ga.	4.41	0.50	1.21	7.26	0.065
RD#6R	Location: Creek @0+25W, 2+25N Sample type: Chip across 30 cm sheared granidiorite with blebs of Hb & quartz, 5-10% Cpy, minor Ga.	2.92	0.01	0.03	2.18	0.059
RDL claim RD#7R	Location: Stope @2+00W, 2+50N Sample type: Chip across 56 cm HW 5-10 cm gouge zone 17 cm blocky milky white quartz & Cpy. 4 cm massive sulphides Cpy, Ga & Tet FW 25 cm laminated cherty quartz, minor sulphides	0.98	0.73	0.88	6.38	0.008

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
R#7	Location: 33 m (face) from portal Sample type: Chip across 90 cm (old #373) HW 60 cm sheared, veined Grd locally stringers, blebs Qts + Cpy (5-10% Cpy) FW 30 cm Grd	1.57	0.02	0.05	0.97	0.302
R#8	Location: 30 m from portal Sample type: Chip across 77 cm HW 10 cm quartz vein 57 cm sheared, veined Grd, blebs Cpy FW 10 cm Grd	2.21	0.01	0.05	0.87	0.026
R#9	Location: 19 m from portal Sample type: Chip across 170 cm HW 90 cm vein shear blebs Qtz, Cpy, Ga FW 80 cm Grd, blebs of Cpy (<1%)	3.34	0.05	0.10	3.81	0.068
R#10	Location: 18 m from portal Sample type: Chip across 137 cm (old sample #387) HW 15 cm banded milky white Qtz vein with blebs of Cpy 82 cm sheared vein, blebs & patches of Cpy, Qtz FW 40 cm Grd, minor dissem Cpy	4.20	0.08	0.10	5.09	0.165
R#11	Location: 13 m from portal Sample type: Chip across 153 cm HW 10 cm Grd 5 cm Gouge 50 cm Grd, slightly alt., minor Cpy. 18 cm sheared vein, irregular blebs of Cpy & Qtz 30 cm semi-massive Cpy in Hb FW 40 cm Hb-Qtz vein, mostly milky white quartz with blebs of Cpy	7.61	0.03	0.10	1.82	0.256
R#17	Location: 13 m from portal Sample type: Chip across 70 cm Repeat of FW 70 cm of R#11	17.65	0.96	0.57	4.17	0.082

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
R#12	Location: 12 m from portal Sample type: Chip across 165 cm 15 cm gouge, minor Qtz, Cpy, Ga 60 cm Grd 90 cm Qtz-massive Cpy vein	6.78	0.63	4.36	12.83	0.075
R#18	Location: 12 m from portal Sample type: Chip across 90 cm Repeat of lower 90 cm of R#12	13.50	0.06	0.32	2.02	0.174
R#13	Location: 10.5 m from portal Sample type: Chip across 221 cm HW 5 cm Grd 36 cm shear zone, incl. 5 cm gouge 90 cm unalt. Grd minor Cpy FW 90 cm Qtz-Hb-Cpy vein, 10-15% Cpy	2.72	0.13	0.75	1.77	0.087
R#14	Location: 8.5 m from portal Sample type: Chip across 190 cm HW 60 cm shear zone with 20-30% Qtz & dissem Cpy, Ga 60 cm Grd, rare Cpy FW 70 cm Qtz-Hb-Cpy vein; irregular blebs milky white Qtz & Cpy (10% Cpy)	2.84	0.67	6.10	6.48	0.075
R#15	Location: 7.0 m from portal (By wooden door) Sample type: Chip across 245 cm HW 60 cm sheared vein, minor gouge zones localized blebs Ga, minor Cpy 80 cm Grd, barren & unalt. FW 105 cm Qtz-Hb-Cpy vein zone with large irregular blebs Cpy (15%)	6.05	5.44	2.82	11.93	0.102
R#16	Location: 5.0 m from portal Sample type: Chip across 215 cm HW 35 cm shear zone, incl. 1-2 cm gouge zones & blebs of Cpy & Ga 80 cm Grd, unalt. & NVM FW 100 cm Qtz-Hb-Cpy vein, large irregular blebs Cpy & Qtz (20% Cpy)	2.81	0.67	4.22	4.94	0.039

Note: * Indicates value in ppm   ** Indicates value in ppb

Sample #	Description		Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
#2 VEIN, 1000' LEVEL							
RA1	Location:	1002 W Drift	1.31	0.12	0.11	2.65	0.018
	Sample type:	Chip across 53 cm					
		Repeat of A#1					
	HW 30 cm sheared seds.						
	FW 23 cm Qtz veined Grd, 5% Py, 2-3% Ga, 1% WO^3						
RA11	Location:	1002 W Drift	1.72	0.02	0.10	5.80	0.169
	Sample type:	Chip across 100 cm					
		Repeat of A11					
	FW 10 cm sheared seds.						
	30 cm vein with Py, Cpy, Ga						
	HW 60 cm seds.						
RWU55	Location:	1002 W Drift	2.63	0.08	0.98	5.35	0.043
	Sample type:	Chip across 135 cm					
		Repeat of WU55					
	FW 20 cm seds, minor Py						
	20 cm banded clear Qtz, 5% Py						
	15 cm milky white Qtz (minor WO_3)						
	HW 80 cm seds, minor sulphides						
RA12	Location:	1002 W Drift	1.50	0.08	0.18	3.08	0.015
	Sample type:	Chip across 110 cm					
		Repeat of A12					
	FW 70 cm sheared seds, fine dissem Py, Cpy						
	15 cm milky white Qtz vein, 5% Py						
	HW 25 cm banded clear Qtz, abundant Cpy, Py, Ga						
RA13	Location:	1002 W Drift	4.77	0.15	0.92	2.42	0.082
	Sample type:	Chip across 138 cm					
		Repeat of A13					
	FW 50 cm alt. seds., minor Qtz blebs & Py						
	13 cm banded shear qtz with 10% Cpy						
	15 cm milky white Qtz & 0.5% WO_3 with 5-10% grey sulphide, 5% Py						
	HW 30 cm white Qtz 10% Cpy. 30 cm seds						

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
RA14	Location: 1002 W Drift Sample type: Chip across 130 cm Repeat of A14 HW 30 cm seds, sheared 35 cm white milky quartz % Py, 2-3% Tet. 35 cm sheared banded quartz 5% Cpy FW 30 cm seds, minor dissem pyrite	1.69	0.01	0.06	0.78	0.096
RA16	Location: 1002 W Drift Sample type: Chip across 75 cm Repeat of A16 FW 30 cm Grd 30 cm qtz vein, abundant Cpy, Py HW 15 cm shear zone Py, Cpy & WO_3	2.49	0.06	0.23	4.34	0.019
RA17	Location: 1002 W Drift Sample type: Chip across 140 cm Repeat of A17 FW 35 cm Grd 15 cm Hb-Cpy vein 80 cm heavily mineralized Qtz vein, sheared, milky white Cpy, Py & WO_3 HW 10 cm Grd	3.83	0.18	0.30	1.81	0.056
RA90	Location: 1002 W Drift Sample type: Chip across 100 cm Repeat of A90 HW 40 cm milky white Qtz vein in sheared Grd. minor Py. Rare WO_3 FW 60 cm Grd	1.43	1.58	0.67	4.80	0.059
RA29/30	Location: 1002 W Drift Sample type: Chip across 115 cm Repeat of A29 & A30 HW 15 cm Grd 60 cm sheared white Qtz vein, locally massive Cpy, Py & Hb. Minor WO_3 FW 40 cm Grd. minor Py. Cpy.	2.51	0.28	0.36	11.56	0.035

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
RA32	Location: 1002 W Drift Sample type: Chip across 60 cm Repeat of A32 HW 10 cm Grd 40 cm Qtz vein, abundant Cpy, Py FW 10 cm Grd	5.19	0.01	0.05	1.30	0.038
RA41	Location: 1002 W Drift Sample type: Chip across 90 cm Repeat of A41 HW 30 cm Grd 30 cm quartz vein with abundant Cpy, Py, tetrahedrite, sheared. FW 10 cm Grd	5.35	0.01	0.05	4.15	0.020
R2	Location: 1002 W Drift Sample type: Chip across 85 cm Repeat of A77? HW 15 cm Grd 20 cm milky white Qtz vein 15 cm shear zone FW 35 cm Grd	6.98	0.17	1.00	5.81	0.055
R1	Location: 1002 W Drift Sample type: Chip across 113 cm Repeat of 744? FW 23 cm Qtz-sulphide vein HW 90 cm sheared Grd. with blebs of massive Cpy.	5.65	0.02	0.27	8.58	0.058
RWU75	Location: 1002 W Drift Sample type: Chip across 105 cm Repeat of WU75 FW 40 cm Grd 25 cm sheared Qtz vein HW 40 cm massive white milky Qtz vein with abundant sulphides, 10% Cpy, Py, Tet	3.16	0.06	0.19	2.59	0.114
RWU77	Location: 1002 W Drift Sample type: Chip across 105 cm Repeat of WU77 FW 40 cm Grd 60 cm sheared Qtz, sulphide vein, minor Tet HW 5 cm Grd	1.73	0.02	0.05	1.86	0.044

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
R4	Location: 1002 W Drift Sample type: Chip across 225 cm HW 35 cm shear zone with Qtz veins 90 cm Qtz-sulphide veined Grd. Cpy blebs assoc. with Qtz FW 100 cm sheet veined & alt. grd. with dissem. Cpy	1.39	0.34	0.21	5.19	0.023
R3	Location: 1002 W Drift Sample type: Chip across 205 cm 15 cm shear zone 120 cm sheared Grd. with Cpy. in Qtz. vein 70 cm sheet veined Grd. with Cpy. in Qtz. veins (3% Cpy.)	0.79	0.14	0.36	0.81	0.016
RA159	Location: 1002 W Drift Sample type: Chip across 110 cm Repeat of A159 HW 26 cm Grd, minor Cpy 29 cm sheared, gouge-Qtz zone 20 cm Qtz-minor Hb vein with blebs & dissem of Cpy FW 35 cm Grd, locally blebs of Cpy	4.24	0.01	0.05	2.43	0.066
RA160	Location: 1002 W Drift Sample type: Chip across 110 cm Repeat of A160 HW 10 cm Grd., NVM 62 cm sheared gouge zone, minor Cpy. FW 38 cm Grd., rare Cpy.	0.01	0.01	0.01	0.02	0.068
RA161	Location: 1002 W Drift Sample type: Chip across 96 cm Repeat of A161 HW 67 cm sheared gouge zone, abundant malachite stain 12 cm sheared Grd., NVM 17 cm Grd., NVM	0.27	0.01	0.01	0.19	0.067

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OP'
RU# 2001	Location: @ 76 m into adit Sample type: Chip across 121 cm HW 12 cm barren Grd. 30 cm sheared Qtz vein FW 44 cm massive Qtz -Hb vein with 5-10% Tet, 10% Cpy, minor Ga & Sph.	5.73	0.79	1.34	40.85	0.034
RU# 2002	Location: @ 73.5 m into adit Sample type: Chip across 87 cm HW 23 cm shear zone, minor Qtz 29 cm Qtz-Hb vein with 4-5 % Cpy & 3-4% Tet FW 35 cm irregularly Qtz-veined Grd., 40-50% Qtz vein with 1-2% Cpy, Grd. has 3-4% Cpy.	1.26	0.02	0.03	1.85	0.032
RU# 2003	Location: 3m W of R4 Sample type: Chip across 135 cm HW 13 cm calcite-chlorite shear 19 cm Qtz-vein with 10-15% Tet 31 cm Chl-Qtz-Calcite shear, minor Cpy 57 cm Qtz-Hb-Cpy vein locally blebs of massive Cpy, overall 10-15% FW 15 cm Grd., rare Cpy.	5.51	0.48	1.12	47.73	2.070
RU# 2004	Location: 1.4m E of RU2003 Sample type: Chip across 160 cm HW 12 cm sheared Grd, minor chl, calcite 5 cm Qtz. vein, minor Tet, malachite stain 29 cm shear zone (chl-calcite-Qtz) 62 cm Qtz-Hb-Cpy vein, irregular blebs of Qtz. & Hb. with assoc. Cpy. FW 52 cm Grd., minor dissem. Cpy & in fractures	0.88	0.05	0.03	1.95	0.037

__Note:__ * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
#2 VEIN, 1200' LEVEL						
RU# 201	Location: 0.5m E of #192W Sample type: Chip across 40 cm HW 20 cm quartz vein with 10-15% blebs of massive Cpy., minor Ga. FW 20 cm sediments	3.84	1.05	0.44	15.15	0.32
RU# 202	Location: 1202 W Drift Sample type: Chip across 127 cm #176W	2.19	0.13	0.49	18.13	0.290
RU# 203	Location: 1202 W Drift Sample type: Chip across 130 cm Vein containing 10% Cpy, 2-3% Ga & Asp & Tet & includes 15 cm FW sediments	2.64	0.34	0.34	10.18	0.042
RU# 204	Location: 1202 W Drift Sample type: Chip across 70 cm HW 30 cm Quartz vein with locally massive Cpy & minor Ga FW 40 cm sediments, NVM	2.10	0.11	0.03	4.54	0.076
RU# 205	Location: 1202 W Drift Sample type: Chip across 60 cm HW 50 cm white quartz vein with 10% Cpy minor Ga & Sph. FW 10 cm sediments	4.84	0.70	1.66	10.85	0.055
RU#21	Location: 1202 W Drift Sample type: Chip across 80 cm White quartz vein with blebs of Cpy (20%) & includes 20 cm of FW Grd.	8.76	0.09	0.13	15.83	1.560
RU#22	Location: 1202 W Drift Sample type: Chip across 73 cm HW 58 cm of vein with 30% Cpy & 10% Tet FW 15 cm Grd with 2-3% Cpy.	10.93	0.32	0.44	30.60	0.722

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
RU# 22A	Location: 1202 W Drift Sample type: Chip across 58 cm Repeat of lower 58 cm of RU#22	14.87	0.41	0.21	28.09	2.289
RU#23	Location: 1202 W Drift Sample type: Chip sample across 47 cm of vein HW 33 cm altered Grd with blebs of massive Cpy (15%) FW 14 cm white quartz vein with 4-5% tetrahedrite	6.37	0.06	0.19	21.52	0.285
RU#24	Location: @128.5m 1202 W Drift Sample type: Chip across 65 cm Hb-Cpy vein & altered Grd with large blebs of nearly massive Cpy (30%)	12.91	0.35	0.16	41.43	3.825
RU#25	Location: @129.5m 1202 W Drift Sample type: Chip across 95 cm of vein HW 10 cm Grd 70 cm Quartz-Cpy (Hb) vein with 30% Cpy FW 15 cm Grd	5.80	0.05	0.18	13.81	1.366
RU#26	Location: @130.6m 1202 W Drift Sample type: Chip across 70 cm HW 20 cm Grd with minor Quartz veining & blebs of Cpy (5%) FW 50 cm quartz-Cpy vein with at least 20% Cpy.	5.55	0.07	0.16	4.48	0.355
RU#27	Location: @132.1m 1202 W Drift Sample type: Chip across 63 cm HW 15 cm Grd, minor Qtz veins & blebs of Cpy FW 48 cm sheared Qtz-Hb-Cpy vein with 10% Cpy					
RU#28	Location: @136.7m 1202 W Drift Sample type: Chip across 115 cm HW 95 cm Qtz-Cpy shear zone, abundant Cpy (10-15%) FW 20 cm Grd, minor Cpy.	6.87	0.07	0.18	5.77	0.272

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
RU #28A	Location: @136.7m 1202 W Drift Sample type: Chip across 40 cm Repeat of central 40 cm of RU#28 immediately above Grd. Includes 30% + Cpy.	11.51	0.01	0.03	4.62	0.356
RU#29	Location: @137.9m 1202 W Drift Sample type: Chip across 99 cm Quartz-Cpy vein with 10-15% Cpy	5.06	0.02	0.12	4.14	0.598
RU #29A	Location: @141.0m 1202 W Drift Sample type: Chip across 81 cm Repeat of sample #287W HW 23 cm Grd. with 5-10% Cpy 28 cm sheared quartz vein, minor Cpy (5%) FW 30 cm Qtz-veined, altered Grd. with 3-4% dissmem. Cpy.	3.69	0.04	0.06	4.50	0.072
RU#30	Location: @143.3 1202 W Drift Sample type: Chip across 69 cm Repeat of WU470? HW 27 cm altered Grd. with 3-4% Cpy 34 cm Qtz vein, locally massive blebs of Cpy up to 10 cm FW 8 cm Grd, minor Cpy	2.95	0.32	0.39	6.29	0.142
RU #30A	Location: @143.3m 1202 W Drift Sample type: Repeat chip sample of central 47 cm of RU#30 HW 29 cm Cpy-filled vein (30% + Cpy) FW 18 cm Qtz-Ga-Tet (5%) vein	15.78	1.38	1.07	49.10	1.225

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description		Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
#1 VEIN, 1200' LEVEL							
RU#11	Location:	1201 Drift	1.28	0.01	0.01	1.30	0.011
	Sample type:	Chip across 100 cm					
	Aphanitic dyke with 2-3% Cpy						
RU#12	Location:	1201 Drift	0.97	0.01	0.02	1.68	0.019
	Sample type:	Chip across 99 cm					
	HW 75 cm aphanitic dyke FW 24 cm stockwork Cpy-veined aphanitic dyke (2-3% Cpy)						
RU#13	Location:	1201 Drift	0.01	0.01	0.01	0.05	0.002
	Sample type:	Chip across 120 cm					
	HW 41 cm calcite vein 15 cm sheared calcite vein FW 40 cm aphanitic dyke						

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
#4 VEIN, SURFACE SAMPLES						
RD#13R	Location: 100' Portal Sample type: Float Selection of mineralized dump consisting of Hb-Qtz vein with Cpy, Py, Ga.	8.25	0.01	0.06	0.79	0.275
RD#14R	Location: East of 100'Level Portal Sample type: 65 cm chip across #4 vein HW 15 cm gouge zone, weathered M.S. 15 cm quartz vein FW 35 cm laminated quartz vein	1.06	0.01	0.01	0.52	0.022
RD#15R	Location: 2+00E 7+50N Sample type: Partially preserved #4 vein HW 35 cm Hb Qtz Sulphide vein (<3% Cpy, Py & Ga) incl. 10 cm massive magnetite FW 30 cm quartz vein	3420*	17*	41*	10.0*	0.008
RD#16R	Location: East end #4 vein Sample type: 32 cm chip sample HW 20 cm Qtz vein FW 12 cm magnetite-Hb	700*	43*	99*	3.7*	0.004
RD#17R	Location: 0+00W 7+75N Sample type: Chip across 35 cm of the #4 vein HW 15 cm Hb-Qtz vein, mag, 2-3% Py, 1% Cpy 12 cm fine Qtz-calcite vein FW 8 cm as upper 15 cm.	37118*	52*	389*	56.5*	0.159
RD#18R	Location: 0+00W 7+75N Sample type: Chip sample across 22 cm of vein 2 m below #17R Quartz vein + central 8 cm of massive sulphides (Cpy + Py).	39642*	20*	165*	34.5*	0.496
RD#19R	Location: Adit 0+50W 7+50N Sample type: Chip sample across 70 cm on East wall of adit Heavily weathered shear/vein zone.	13572*	22*	103*	76.3*	0.213

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description		Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
RD# 101R	Location:	Adit @ 0+50W 7+50N	0.16	0.01	0.01	0.08	0.166
	Sample type:	Check 80 cm chip sample opposite RD#19 & 20R on W. Wall of open adit (118/67N).					
	HW 55 cm heavily weathered Gossanous vein FW 25 cm sheared Granidiorite						
RD#21R	Location:	Stope @1+25W 7+25N	22648*	15*	103*	25.6*	0.103
	Sample type:	Chip across 100 cm					
	100 cm weathered gossanous vein with relict blebs of Qtz + Cpy/Py						
RD# 102R	Location:	Stope @ 1+25W 7+25N	0.92	0.07	0.02	0.95	0.066
	Sample Type:	Check chip sample across 115 cm adjacent to RD#21R					
	HW 35 cm weathered gossanous quartz vein with 1-2% relict Cpy 15 cm fairly massive quartz vein with 1-2% Cpy 40 cm Grd, sheared, iron stained, minor blebs of Cpy 12 cm relict gassanous massive sulphides, mostly Cpy? FW 13 cm Grd, iron stained, sheared minor Cpy.						
RD#32R	Location:	#4 vein (west end)	981*	12*	33*	2.0*	0.001
	Sample type:	Float (dump)					
	Intensely weathered breccia zone in gossanous matrix						
RD#33R	Location:	#4 vein (west end)	562*	11*	12*	0.6*	0.001
	Sample type:	Float (dump)					
	Weathered Qtz-Py vein						
RD#34RA	Location:	#4 vein (west end)	487*	12*	20*	2.1*	0.001
	Sample type:	Float (dump)					
	Weathered breccia zone with Hb alt'n & minor pyrite						
RD#35RA	Location:	#4 vein	32403*	12*	141*	39.6*	0.263
	Sample type:	Float (dump)					
	Heavily weathered Hb-Qtz-Py zone						

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description		Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
RD#36R	Location:	#4 vein					
	Sample type:	Float (dump)					
	Grab of dump fines.						
RD#37R	Location:	Trench	41445*	17*	146*	47.6*	0.065
	Sample type:	Chip across 95 cm of vein on East Wall					
	HW 20 cm semi-massive Py in Qtz vein 40 cm weathered gouge, Hb. FW 40 cm Qtz-Py vein as top 20 cm.						
RD#103R	Location:	Trench					
	Sample type:	Check chip sample across 87 cm opposite RD#37R (i.e. on W. wall)					
	HW 11 cm quartz vein 50 cm weathered gossanous relict massive sulphide FW 26 cm Quartz-Hb-Cpy vein with large blebs of Cpy (5-10%).						
RD#38R	Location:	Trench	1372*	5*	22*	1.0*	0.001
	Sample type:	Chip across 50 cm					
	Bleached Granidiorite under vein						
RD#39R	Location:	Trench	99999*	49*	1093*	64.9*	0.018
	Sample type:	Float (dump)					
	Grab of massive Cpy.						

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
ARMAGOSA VEIN AREA, SURFACE SAMPLES						
RD#40R	Location: Armagosa Sample type: Chip across 60 cm (Two samples) HW 20 cm chip sample Hb-Qtz-Py vein, moderately weathered (5% Py).	515*	21*	8*	4.6*	0.001
RD#41R	FW 40 cm chip sample of alt. breccia, shear zone below #40R	1228*	7*	9*	1.6*	0.002
RD#42R	Location: Armagosa Sample type: Grab Brecciated shear zone with 15-20% Hb containing angular clasts of seds.	604*	9*	9*	0.8*	0.001
RD#43R	Location: Armagosa Sample type: Grab Breccia zone, angular clasts of bleached seds. in dark Hb-limonitec matrix.	427*	20*	14*	0.6*	0.001
RD#44R	Location: Armagosa Sample type: Chip sample across 110 cm HW 20 cm massive Hb-Qtz vein, 5% Py. FW 90 cm weathered gossanous shear.	15299*	29*	66*	5.3*	0.001
RD#45R	Location: Armagosa Sample type: Chip across 100 cm Pale grey siliceous seds. with 3-4% Py.	457*	5*	14*	0.2*	0.001
RD#46R	Location: Armagosa Sample type: Float Grab of unexposed Qtz-Py vein with 30% Py minor Hb.	7410*	61*	94*	109*	0.001
RD#47R	Location: Armagosa Sample type: Chip across 65 cm Exposed quartz vein	915*	22*	11*	2.7*	0.001
RD#48R	Location: Armagosa Adit Sample type: Float Grab of adit dump 10% Py in breccia zone.	4414*	9*	22*	1.8*	0.006

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description		Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
GREAT OHIO VEIN, SURFACE SAMPLES							
RD#8R	Location: Sample type:	Great Ohio Adit Float	2204*	81*	187*	3.2*	0.001
	Quartz vein with locally massive blebs of pyrrhotite.						
RD#9R	Location: Sample type:	Great Ohio Adit Float	3374*	44*	143*	7.1*	0.001
	Hb lamprophyre dyke with 2-5% Py with attached quartz-Pyrh.						
RD#10R	Location: Sample type:	Great Ohio Adit Float	7270*	108*	538*	26.8*	0.011
	Calcite breccia zone 2-3% Ga & 70% Calcite.						
RD#11R	Location: Sample type:	Great Ohio Adit Float	2477*	34*	62*	2.3*	0.026
	Selected float sample of masssive Pyrh, Py, Cpy in Hb-quartz vein						
RD#12R	Location: Sample type:	Great Ohio vein E of adit Chip across 1.2 m	799*	41*	54*	11.8*	0.040
	Shear zone that includes 40 cm massive sulphides Py & Pyrh						

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description		Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
HIGHLAND BOY VEIN							
RD#22R	Location:	Highland Boy, west end	2285*	13*	52*	1.9*	0.002
	Sample type:	Float					
	Hb vein: minor Cpy, Mag						
RD#23R	Location:	Highland Boy, west end	1384*	22*	77*	1.9*	0.002
	Sample type:	Float					
	Qtz vein; 20-30% Maq, Cpy						
RD#24R	Location:	Highland Boy, west end	20575*	23*	89*	29.4*	0.009
	Sample type:	Float					
	Weathered Qtz vein breccia with 10% Cpy + Py, 30% magnetite						
RD#25R	Location:	Highland Boy, west end	1003*	21*	75*	1.7*	0.001
	Sample type:	Float					
	Contact area of granidiorite, silicified minor magnetite (<5%) along edge.						
RD#26R	Location:	Highland Boy, west end	34237*	17*	132*	37.3*	0.013
	Sample type:	Float					
	Vein with 10% Qtz, 10% Hb, 50% Mag. + 10-20% Cpy.						
RD#27R	Location:	Highland Boy, west end	660*	15*	58*	2.1*	0.001
	Sample type:	Float					
	Massive laminated Qtz vein with 20% Mag as stringers & bands, minor Cpy veinlets.						
RD#28R	Location:	Highland Boy (East)	22139*	20*	93*	22.3*	0.129
	Sample type:	Chip across 67 cm					
	Heavily weathered Hb-Qtz vein above portal.						
RD#29R	Location:	Highland Boy (East)	64525*	33*	169*	20.9*	0.119
	Sample type:	Float					
	Qtz-Pyrite vein, 30-40% Py, minor Pyrh.						

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT
RD#30R	Location: Highland Boy (East) Sample type: Float Quartz-sulphide vein, 20% Mag, 20% Py, 10% Cpy.	84216*	41*	217*	29.1*	0.136
RD#31R	Location: Highland Boy (East) Sample type: Float Qtz-Hb vein 15% Mag, 10% Cpy + 5% Py.	593*	19*	34*	0.1*	0.001
RD#32RA	Location: Highland Boy (East) Sample type: Float (dump) Hb-Mag vein with 10% Py, 5% Cpy	20939*	19*	142*	10.6*	0.014
RD#33RA	Location: Highland Boy (East) Sample type: Float (dump) Quartz vein with Py, Cpy, Mag	77081*	39*	219*	27.3*	0.046
RD#34R	Location: Highland Boy Sample type: Float (dump) Weathered Granidiorite, patches Qtz, Py	8448*	8*	57*	5.8*	0.011
RD#35R	Location: Highland Boy Sample type: Float (dump) Qtz-Hb vein with Mag, Cpy	58493*	26*	131*	11.6*	0.048

Note: * Indicates value in ppm ** Indicates value in ppb

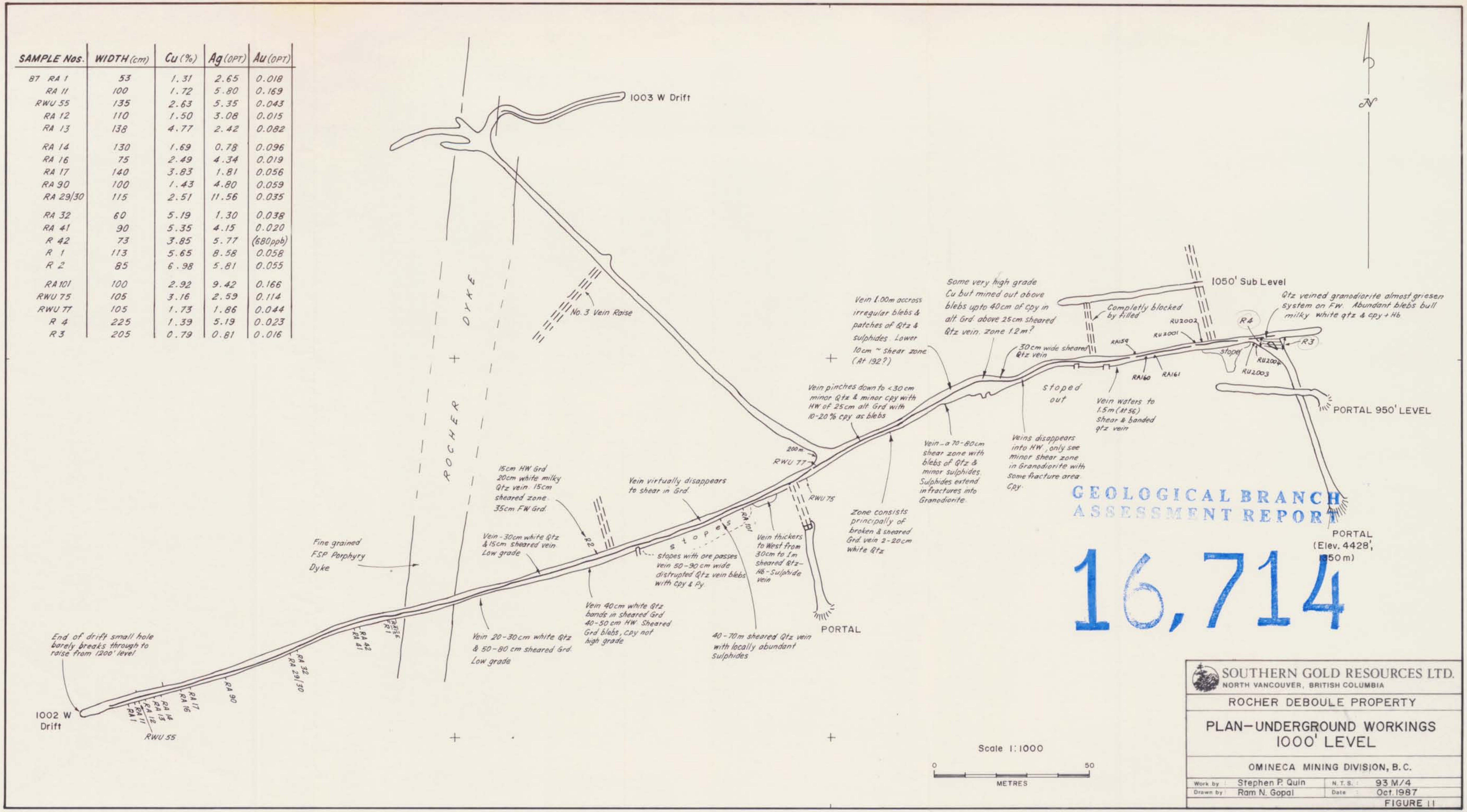
Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
ROCK FLOAT SAMPLES, TALUS LINES						
RT Rock 1 + 75S	Location: Juniper Creek, South Side Sample type: Grab sample of float Quartz vein + Hb banded rock with <0.2 cm band of Pyrite	6005*	17*	98*	6.7*	0.006
RT Rock 2 + 15S	Location: Juniper Creek, South Side Sample type: Grab sample of float	12429*	21*	387*	5.1*	0.020
RT Rock 3 + 80S	Location: Juniper Creek, South Side Sample type: Grab sample of float Hb-calcite vein with 10% Py, 10% Mag + magnetite in calcite vein.	8465*	48*	126*	13.5*	0.011
RT Rock 5 + 00S	Location: Juniper Creek, South Side Sample type: Grab sample of float Hb-quartz veined granidiorite. Hb locally coarse. Contains 5-10% Py, 5% Mag.	9616*	15*	70*	4.0*	0.015
RT Rock 7 + 00S	Location: Juniper Creek, South Side Sample type: Grab sample of float Milky quartz vein with minor Hb, contains massive blebs of pyrrh + minor pyrite.	5147*	43*	109*	5.9*	0.001
RT Rock 12 + 00S	Location: Juniper Creek, South Side Sample type: Grab sample of float Cherty rhyolite (?) very fine grained, pale grey, with minor dissem. pyrite + up to 0.5 cm biotite flakes.	323*	10*	44*	0.4*	0.001
Rock Talus 4 + 70N	Location: Juniper Creek, North Side Sample type: Grab sample of float Massive magnetite with minor dissem. pyrite.	82*	142*	250*	1.8*	17**

Note: * Indicates value in ppm ** Indicates value in ppb

Sample #	Description	Cu(%)	Pb(%)	Zn(%)	Ag(OPT)	Au(OPT)
Rock Talus 5 + 40N	Location: Juniper Creek, North Side Sample type: Grab sample of float Massive Hb vein with minor altered seds.	17408*	68*	348*	37.5*	0.036
Rock Talus 8 + 50N	Location: Juniper Creek, North Side Sample type: Grab sample of float Altered granidiorite with 5% dissem. f.g. pyrite.	23761*	43*	129*	5.9*	0.103
Rock Talus 8 + 75N	Location: Juniper Creek, North Side Sample type: Grab sample of float Coarse grained quartz vein.	2*	20*	108*	0.2*	0.001
'A' Rock Talus #1	Location: Armagosa Creek, North Side Sample type: Grab sample of float Massive pyrite (30-40%) in shear zone.	1011*	3506*	1764*	31.3*	0.001
'A' Rock Talus #2	Location: Armagosa Creek, North Side Sample type: Grab sample of float Hb-Py vein with minor magnetite.	2470*	62*	143*	5.8*	0.001
'A' Rock Talus #3	Location: Armagosa Creek, North Side Sample type: Grab sample of float Hb rich fault breccia as seen above Armagosa adit.	105*	28*	24*	1.5*	0.001
'A' Rock Talus #4	Location: Armagosa Creek, North Side Sample type: Grab sample of float Fine grained pale cherty rhyolite (?) with fine laminations of pyrite (1-2%).	581*	75*	120*	4.8*	0.001
'A' Rock Talus #5	Location: Armagosa Creek, North Side Sample type: Grab sample of float Qtz-Hb vein with 10% Py.	4489*	29*	55*	4.5*	1.280

Note: * Indicates value in ppm ** Indicates value in ppb

SAMPLE Nos.	WIDTH (cm)	Cu (%)	Ag (OPT)	Au (OPT)
87 RA 1	53	1.31	2.65	0.018
RA 11	100	1.72	5.80	0.169
RWU 55	135	2.63	5.35	0.043
RA 12	110	1.50	3.08	0.015
RA 13	138	4.77	2.42	0.082
RA 14	130	1.69	0.78	0.096
RA 16	75	2.49	4.34	0.019
RA 17	140	3.83	1.81	0.056
RA 90	100	1.43	4.80	0.059
RA 29/30	115	2.51	11.56	0.035
RA 32	60	5.19	1.30	0.038
RA 41	90	5.35	4.15	0.020
R 42	73	3.85	5.77	(680ppb)
R 1	113	5.65	8.58	0.058
R 2	85	6.98	5.81	0.055
RA 101	100	2.92	9.42	0.166
RWU 75	105	3.16	2.59	0.114
RWU 77	105	1.73	1.86	0.044
R 4	225	1.39	5.19	0.023
R 3	205	0.79	0.81	0.016



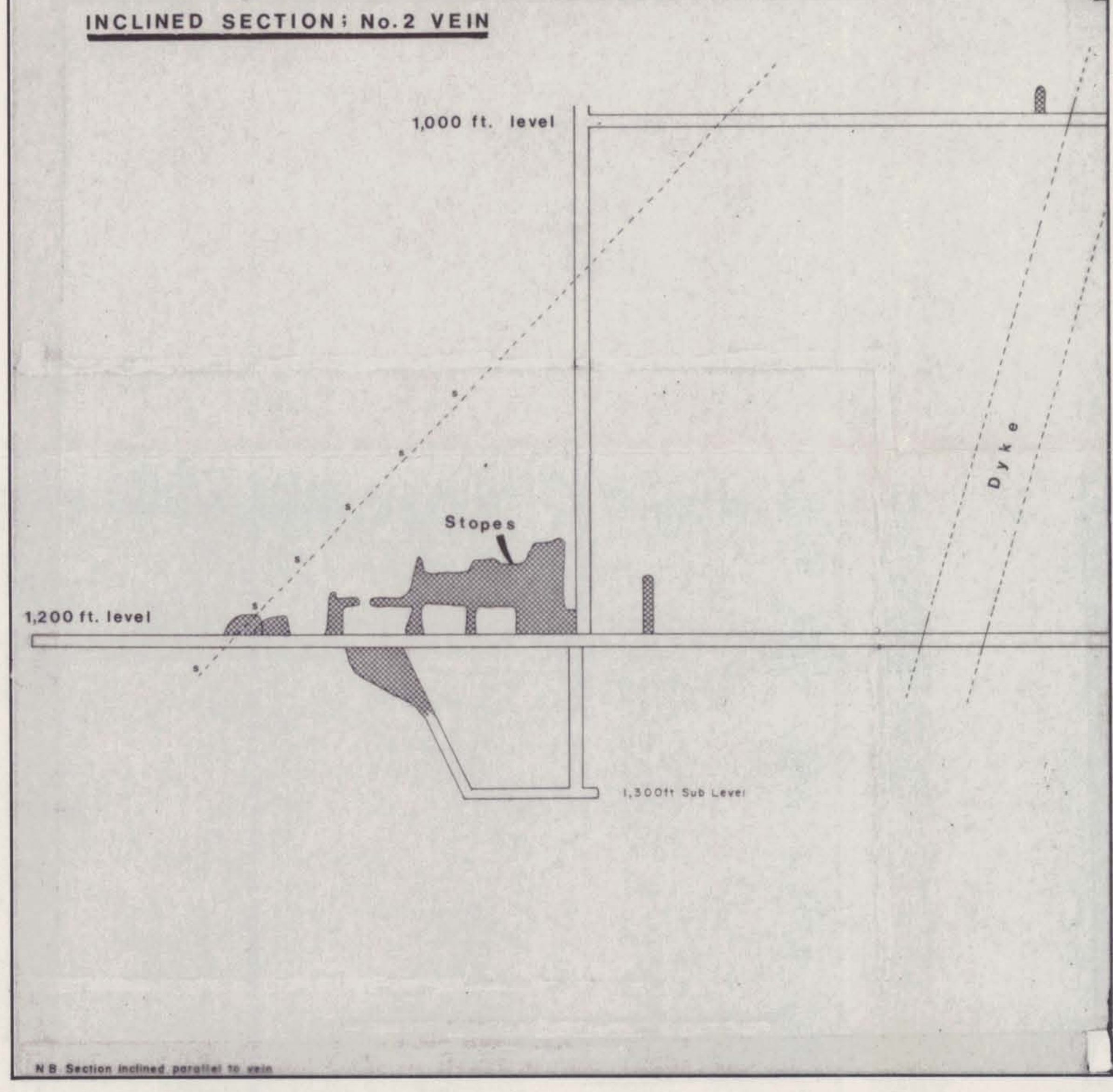
SAMPLE Nos.	WIDTH (cm)	Cu (%)	Ag (OPT)	Au (OPT)
RU 41	120	0.01	0.01	0.001
RU 42	75	0.02	0.05	0.001
RU 43	51			
RU 44	63	0.01	0.01	0.001
RU 45	75	0.01	0.01	0.001

SAMPLE Nos.	WIDTH (cm)	Cu (%)	Ag (OPT)	Au (OPT)
RU 31	116	0.06	0.91	0.004
RU 32	75	0.20	0.71	0.007

SAMPLE Nos	WIDTH (cm)	Cu (%)	Ag (OPT)	Au (OPT)
RU 201	40	3.84	15.15	0.320
RU 202	127	2.19	18.13	0.290
RU 203	130	2.64	10.18	0.042
RU 204	70	2.10	4.54	0.076
RU 21	80	8.76	15.83	1.560
RU 22	73	10.93	30.60	0.722
RU 22A	58	14.87	28.09	2.289
RU 23	47	6.37	21.52	0.285
RU 24	65	12.91	41.43	3.825
RU 25	95	5.80	13.81	1.366
RU 26	70	5.55	4.48	0.355
RU 27	63			
RU 28	115	6.87	5.77	0.272
RU 28A	40	11.51	4.62	0.356
RU 29	99	5.06	4.14	0.598
RU 29A	81	3.69	4.50	0.072
RU 30	69	2.95	6.29	0.142
RU 30A	47	15.78	49.10	1.255

SAMPLE Nos.	WIDTH (cm)	Cu (%)	Ag (OPT)	Au (OPT)
RU 11	100	1.28	1.30	0.011
RU 12	99	0.97	1.68	0.019
RU 13	120	0.01	0.05	0.002

INCLINED SECTION: No. 2 VEIN



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,714

SOUTHERN GOLD RESOURCES LTD.
NORTH VANCOUVER, BRITISH COLUMBIA

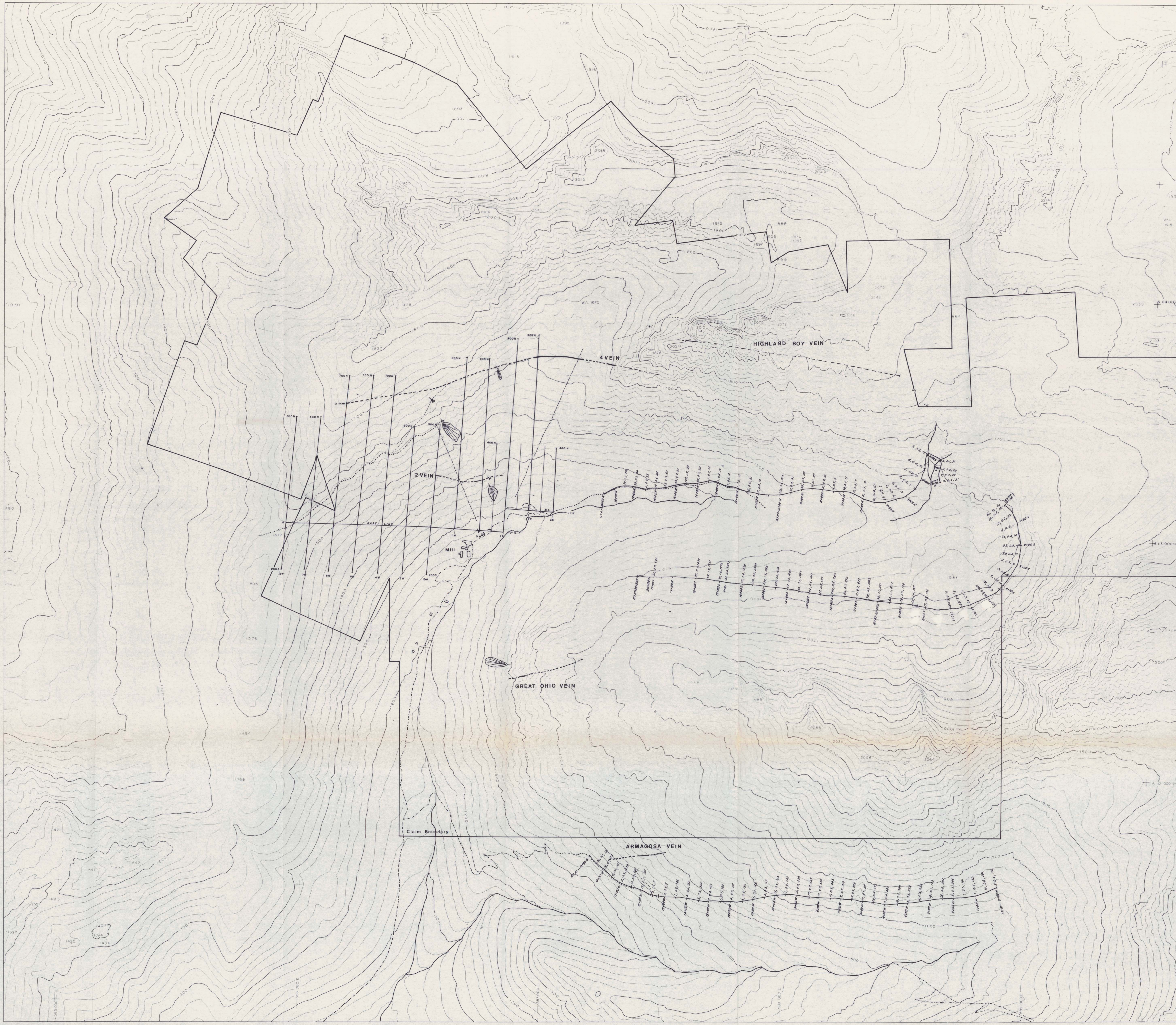
ROCHER DEBOULE PROPERTY

PLAN—UNDERGROUND WORKINGS 1200' LEVEL

SCALE 1:1000
0 10 20 30 40 50 60 70 80 90 100m

Work by :	STEPHEN P. QUIN	N.T.S. :	93 M/4
Drawn by :	R.N. GOPAL (Ram's Drafting)	Date :	OCTOBER, 1987

FIGURE 12



11+00S — 71, 0.7, 873
98, 1.2, 1062
87 RT-10+00S — 99, 1.1, 921 .... Au (ppb), Ag (ppm), As (ppm)
54, 1.1, 677
Sample Number

N

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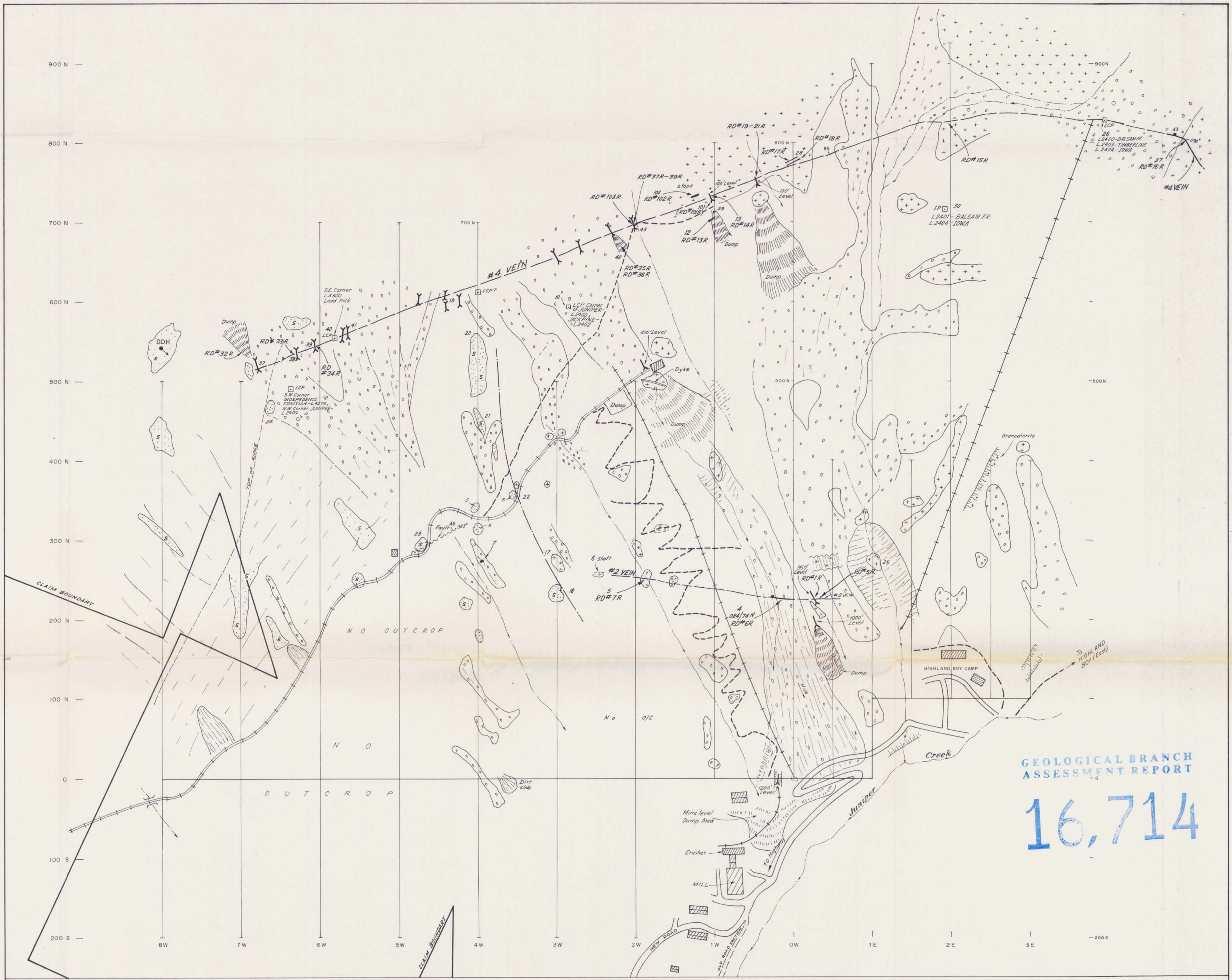
NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE PROPERTY

TALUS SAMPLE LOCATIONS AND GEOCHEMISTRY
GOLD, SILVER & ARSENIC

METRES
0 50 100 200 300 400

DRAWN BY: R. N. G.	MAP BY: EAGLE MAPPING (87-43)	CONTOUR INT: 20m
DATE: SEPT. 1987	N.T.S GRID: 93M/4E	SCALE: 1:5000
REVISIONS:	LAND DIST:	FIG. No. 13
	MINING DIV: Omineca	



LOWER BOWSER LAKE GROUP: Sediments (sandstone, siltstone)

BULKLEY INTRUSIONS: Granodiorite

Veins

Adit

Trench

Contact (inferred)

Boulder train

Dump

Talus

Cliff

Reference No. on Note Book.

Trail

Major tramway

Inclined tramway

Creek

Building

Legal Corner Post

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NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE PROPERTY

FIELD GEOLOGY

SCALE 1:2500

0 50 100 150 200 m

Work by	STEPHEN P. QUIN	N.T.S.	93 M/4
Drawn by	RAM N. GOPAL	Date	SEPT. 1987

FIGURE 7

NOTE:

Compiled from Field Notes.

Topographical Features are also based on Field Notes therefore locations are approximate.

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Geochemical & Geophysical Anomaly

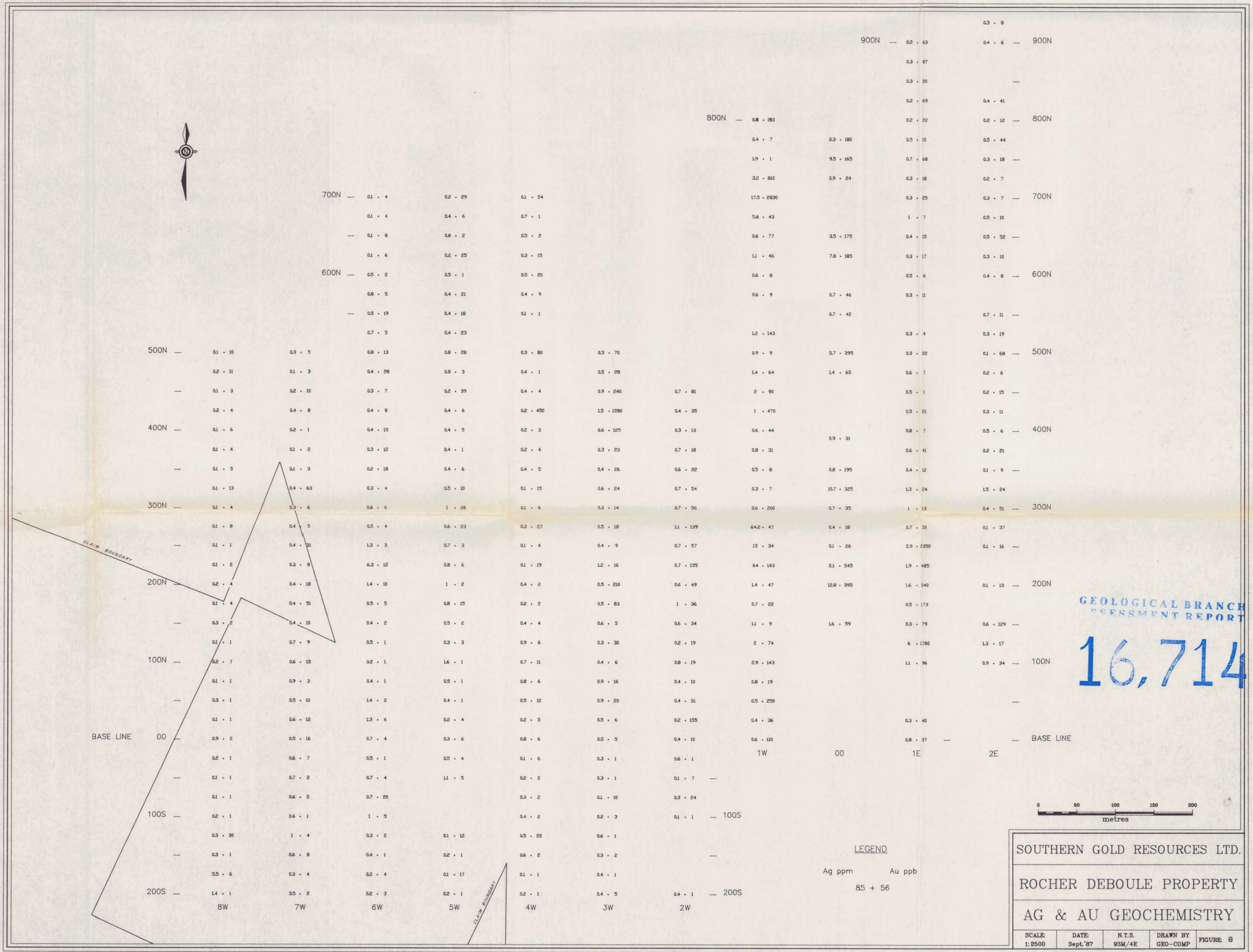
SOUTHERN GOLD RESOURCES LTD.
NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE

CROSS SECTIONS

0 100 200m

Work by :	S P QUIN	N.T.S. :	93M/4E
Drawn by :	SPQ	Date :	NOV 1987
1:2,500			FIGURE 16

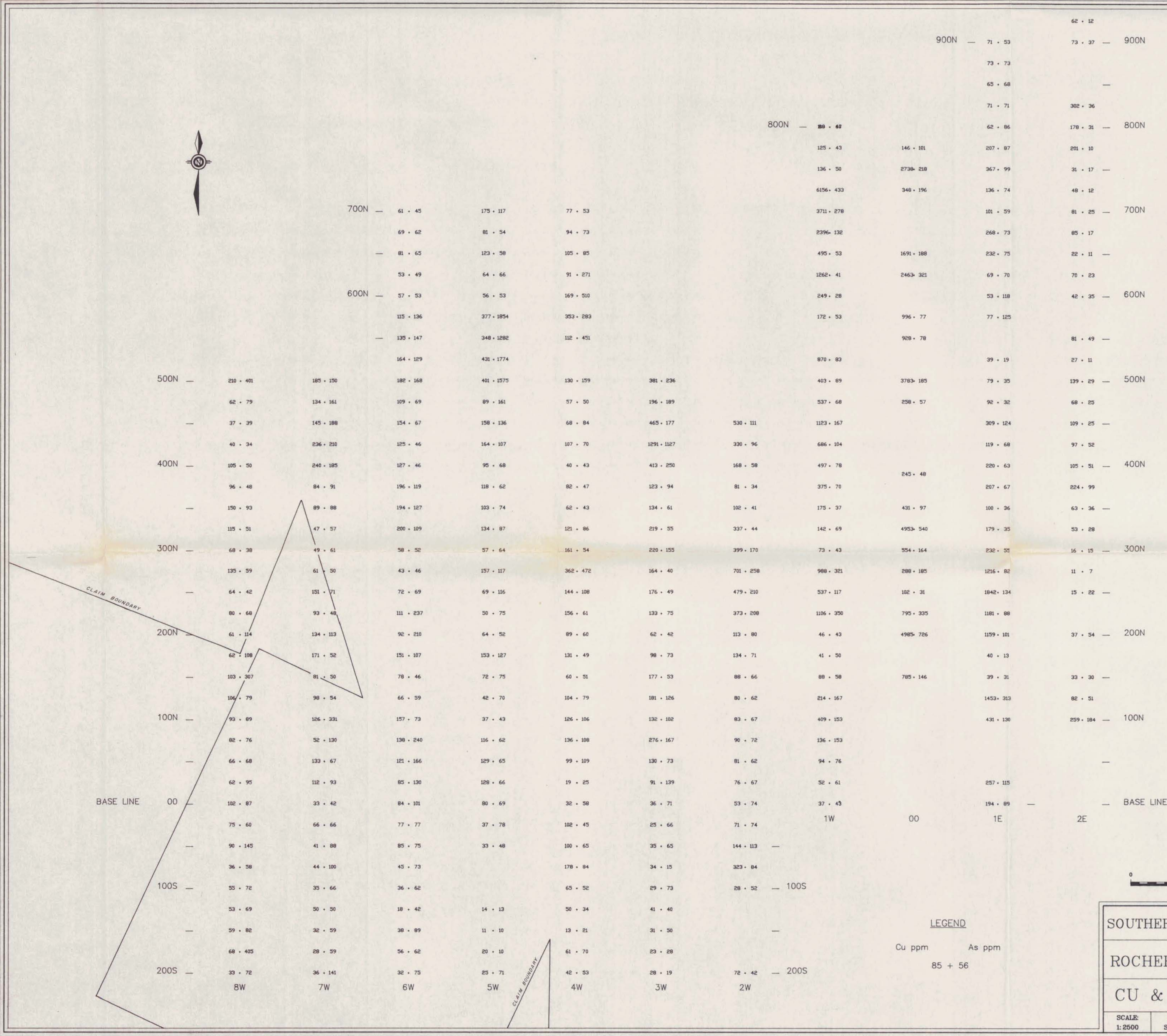


SOUTHERN GOLD RESOURCES LTD.

ROCHER DEBOULE PROPERTY

AG & AU GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY	FIGURE: 8
1:2500	Sept.'87	93M/4E	GEO-COMP	



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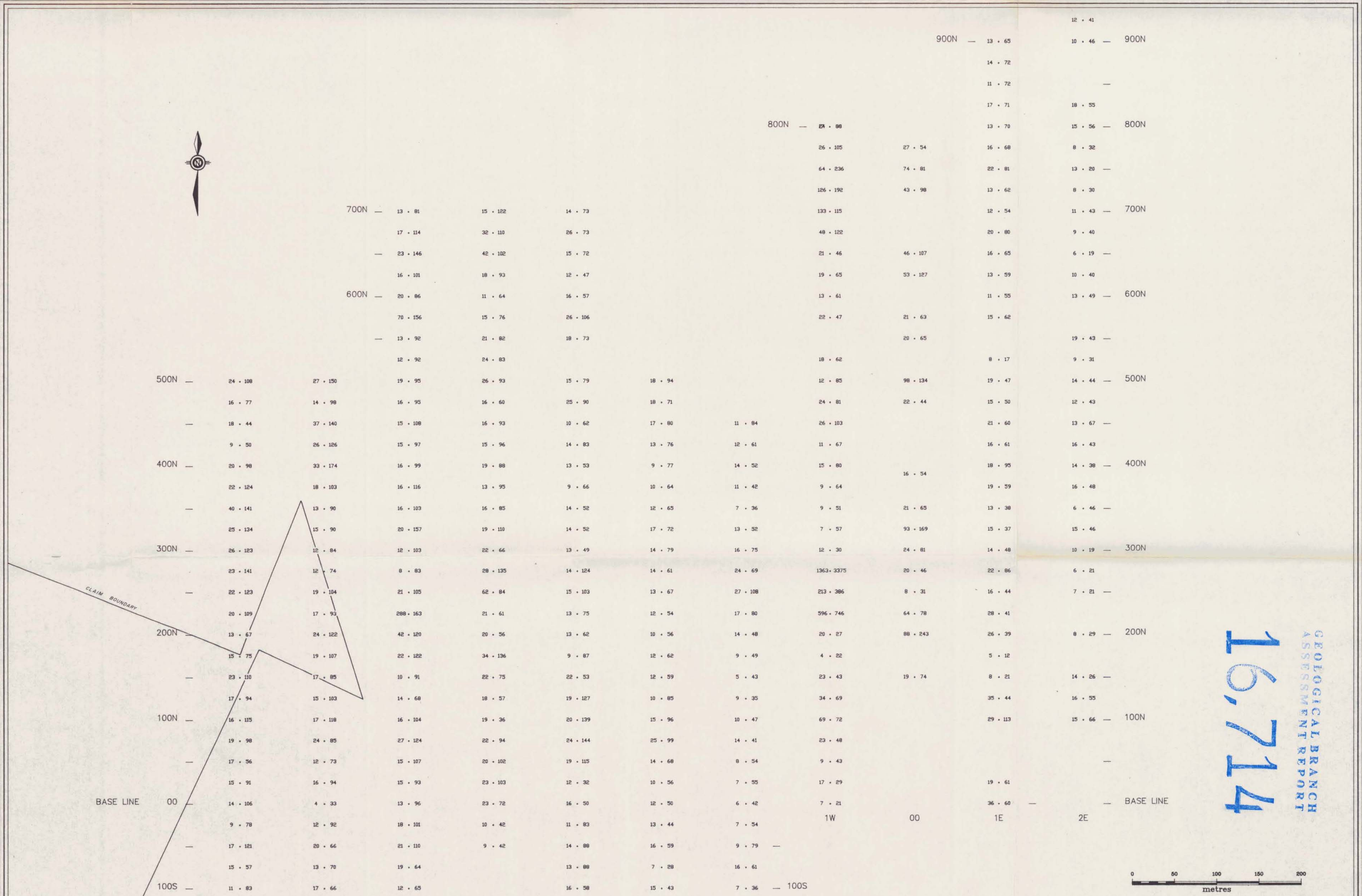
SOUTHERN GOLD RESOURCES LTD.

ROCHER DEBOULE PROPERTY

CU & AS GEOCHEMISTRY

SCALE: 1:2500	DATE: Sept.'87	N.T.S. 93M/4E	DRAWN BY GEO-COMP	FIGURE: 9

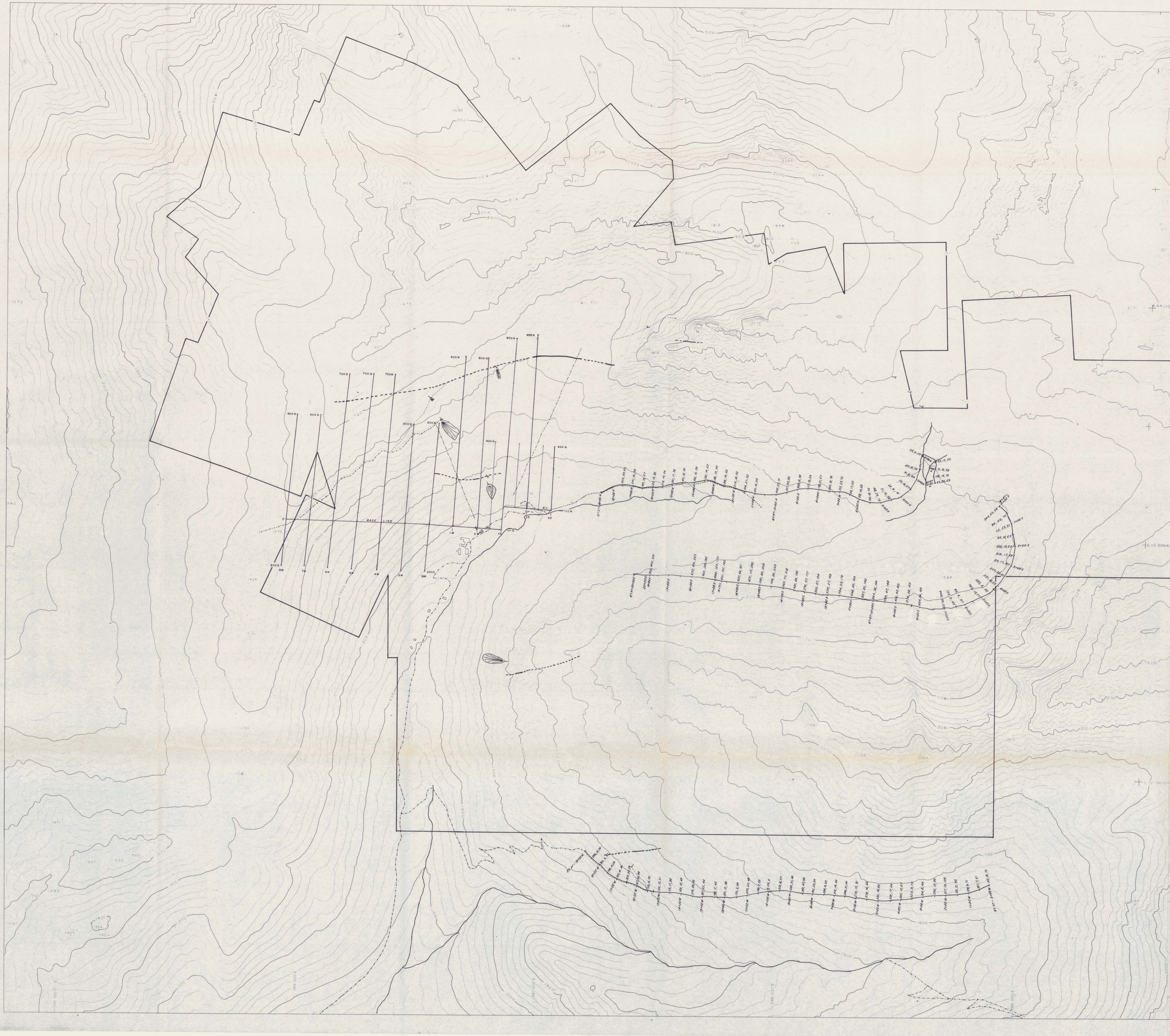


SOUTHERN GOLD RESOURCES LTD.

ROCHER DEBOULE PROPERTY

PB & ZN GEOCHEMISTRY

SCALE:	DATE:	N.T.S.	DRAWN BY	FIGURE: 10
1:2500	Sept.'87	93M/4E	GEO-COMP	



LEGEND

11+00S 648, 20, 129
937, 20, 142
87 RT-10+00S 644, 26, 164 .... Cu (ppm), Pb (ppm), Zn (ppm)
Sample Number
559, 47, 148

N

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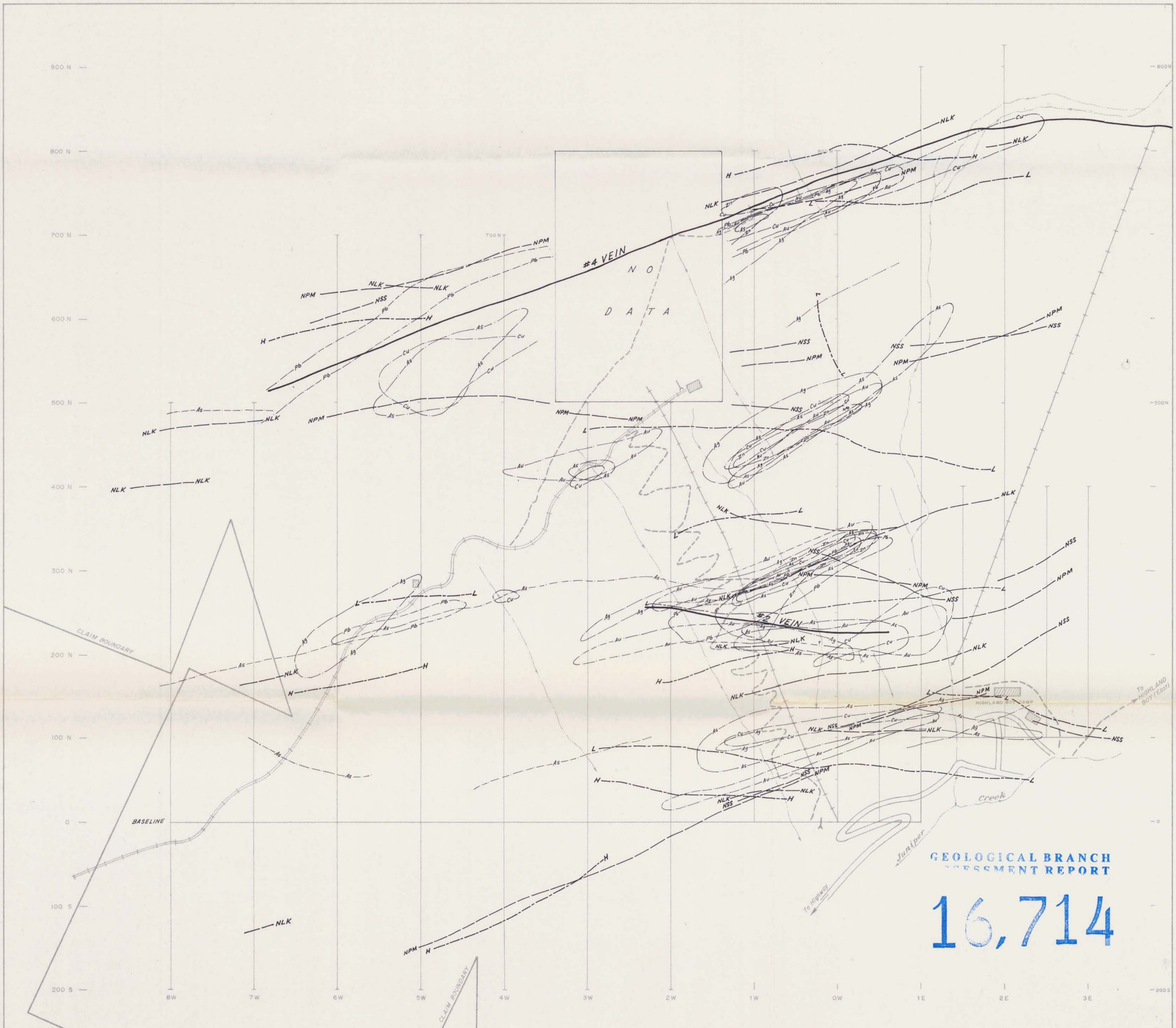
NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE PROPERTY

TALUS SAMPLE LOCATIONS
AND GEOCHEMISTRY
COPPER, LEAD & ZINC

METRES
0 50 100 200 300 400

DRAWN BY: R.N.G.	MAP BY: EAGLE MAPPING (87-43)	CONTOUR INT: 20m
DATE: SEPT. 1987	N.T.S GRID: 93M/4E	SCALE: 1:5000
REVISIONS:	LAND DIST:	FIG. No. 14
	MINING DIV: Omineca	



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Known vein

Mag — Low (*L*) or High (*H*)

VLF EM Conductors
NPM — HAWAII
NSS — ANNAPOLIS
NLK — SEATLE

Geochemical Anomalous Areas

- Au — Gold
- Cu — Copper
- Pb — Lead
- As — Arsenic
- Ag — Silver
- Zn — Zinc

SOUTHERN GOLD RESOURCES LTD.
NORTH VANCOUVER, BRITISH COLUMBIA

ROCHER DEBOULE PROPERTY

COMPOSITE ANOMALY MAP

SCALE 1:2500
METRES 50 25 0 50 100 METRES

Work by : STEPHEN P. QUIN	N.T.S. : 93 M/4
Drawn by : RAM N. GOPAL	Date : SEPTEMBER, 1987

FIGURE 15