

NTS 104B/10W
Lat 56° 41'
Long 130° 59'

**GEOLOGICAL, GEOCHEMICAL
and GEOPHYSICAL
REPORT**

on the

**WARATAH 7, JAZZ 1, 2
and TUK 5 CLAIMS**
Liard Mining Division, B.C.

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORTS

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for

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GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

30 October 1996

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SUMMARY

The WARATAH, JAZZ, and TUK claims are situated in the Iskut River area of the Liard Mining Division, northwestern B.C., approximately 100 kilometers northwest of Stewart.

The property consists of 47 claims totalling 615 units covering approximately 15,375 hectares. The Iskut River area is host to many gold occurrences and several mineral deposits, including the Snip gold mine which is located immediately west of the Waratah property.

The geology of the property consists mainly of Upper Triassic Stuhini Group strata, characterized by basic to intermediate volcanics which underlie andesitic volcanoclastics and flows and interbedded siltstones and greywackes.

From 1983 to 1990, several operators completed a substantial amount of work including linecutting, soil sampling, prospecting, trenching, geological mapping, geophysics, and drilling. Some data from these programs has not been made available.

During 1996, Maple Mark - Royal Bay carried out exploration work over portions of the WARATAH 7, JAZZ 1 and 2, and TUK 5 claims. The objectives were to evaluate the Cooper Zone on the Waratah 7 claim, and the gold potential in the area southeast of the Cooper Zone to the Golden Spray Zone located on the Jazz 2 claim.

The work consisted of 5.1 kilometers of line cutting over the Cooper Zone area, 1:5,000 and 1:2,500 scale geological mapping, collection and geochemical analysis of 66 rock samples, approximately 100 meters of blast trenching, collection and geochemical analysis of fifty-four 1 meter by 1 meter panel samples from trenches, and 4.5 line kilometers of VLF-EM and magnetics using an Omni-plus system.

The Cooper Zone was blast-trenched in 7 locations to further delineate the width and strike. Trenching results indicate that the zone is up to 5 meters wide, approximately 150 meters long, cut by a fault of unknown attitude to the southeast, and pinches out to the northwest. Gold assays from trenches include 11.60 g/mt over 3.0 meters, 3.92 g/mt over 5.0 meters, 2.39 g/mt over 1.0 meter, and 2.93 g/mt over 1.0 meter.

The VLF-EM survey clearly defined the surface trace of the Cooper Zone but did not define additional anomalies.

Three new gold mineralized showings were discovered and evaluated on the Waratah 7 claim during the program: the No. 14 and 15 veins, and the No. 16 zone.

Further work, consisting of linecutting, VLF-EM and magnetic surveys, geological mapping and prospecting, and blast trenching is recommended on the Waratah properties, along strike of the Bluff, No. 7, Boot Hill, and Gold Bug showings. Further work is not recommended on the Cooper, No. 14, 15, or 16 zones.

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- Appendix B** Assay Certificates

This report was prepared at the request of Royal Bay Gold Corp and Maple Mark International Inc to describe and evaluate the results of a 1996 geological, geochemical, and geophysical program carried out by Reliance Geological Services on the Waratah/Jazz properties, 100 kilometers northwest of Stewart, B.C.

The field work was undertaken for the purpose of evaluating the potential of the property to host a vein- or shear zone-hosted gold deposit.

This report is based on published and unpublished information and on the maps, reports, and notes from the 1996 field program.

2.0

LOCATION, ACCESS and PHYSIOGRAPHY

The WARATAH, JAZZ and TUK claims are situated in the Iskut River area of the Liard Mining Division in northwestern B.C., approximately 100 kilometers northwest of Stewart (Figures 1 and 2).

The claims are located on Map Sheet NTS 104B/10W and 11E at latitude 56° 41' North, longitude 130° 59' West.

Access is by fixed-wing aircraft from Smithers for 290 km to the northwest, to the Bronson Creek airstrip, located 0.9 km west of the property. Central Mountain Airlines and Northern Lights Air service the area from Smithers with scheduled and unscheduled supply flights. Alternate fixed-wing access is from Wrangell, Alaska which is located at tidewater, 80 kilometers to the west of the property. The Bronson Creek airstrip is capable of accommodating Hercules aircraft.

Access throughout the property is via helicopter from the airstrip to the numerous helipads which were constructed during 1987, 1988, 1990, and 1996.

A proposed road to the area, construction of which has already begun, follows the Iskut River Valley from Bob Quinn Lake on the Stewart-Cassiar Highway to Bronson Creek. This road will pass through the Waratah property.

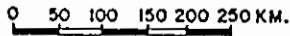
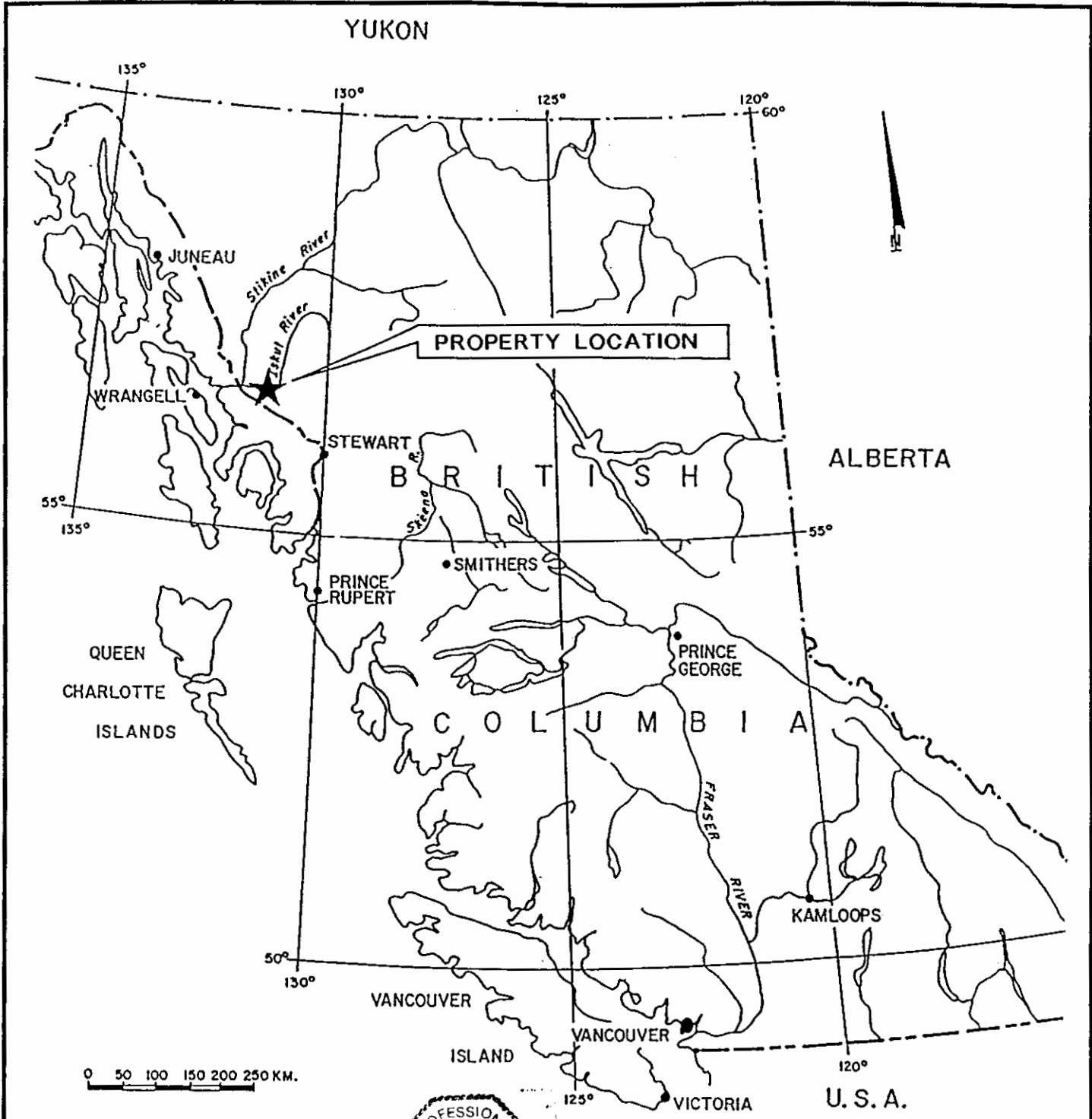
The northern portion of the property is dominated by the flats and gravel bars of the Iskut River. The central part of the claims covers very hummocky ground with precipitous bluffs and steeply incised drainages. The southern portion of the property covers the north facing slopes of Snippaker Mountain, dominated by talus fans.

Topography is generally steep, with elevations ranging from 90 meters along the Iskut River to over 1800 meters near the southeast corner of the Jazz 1 claim.

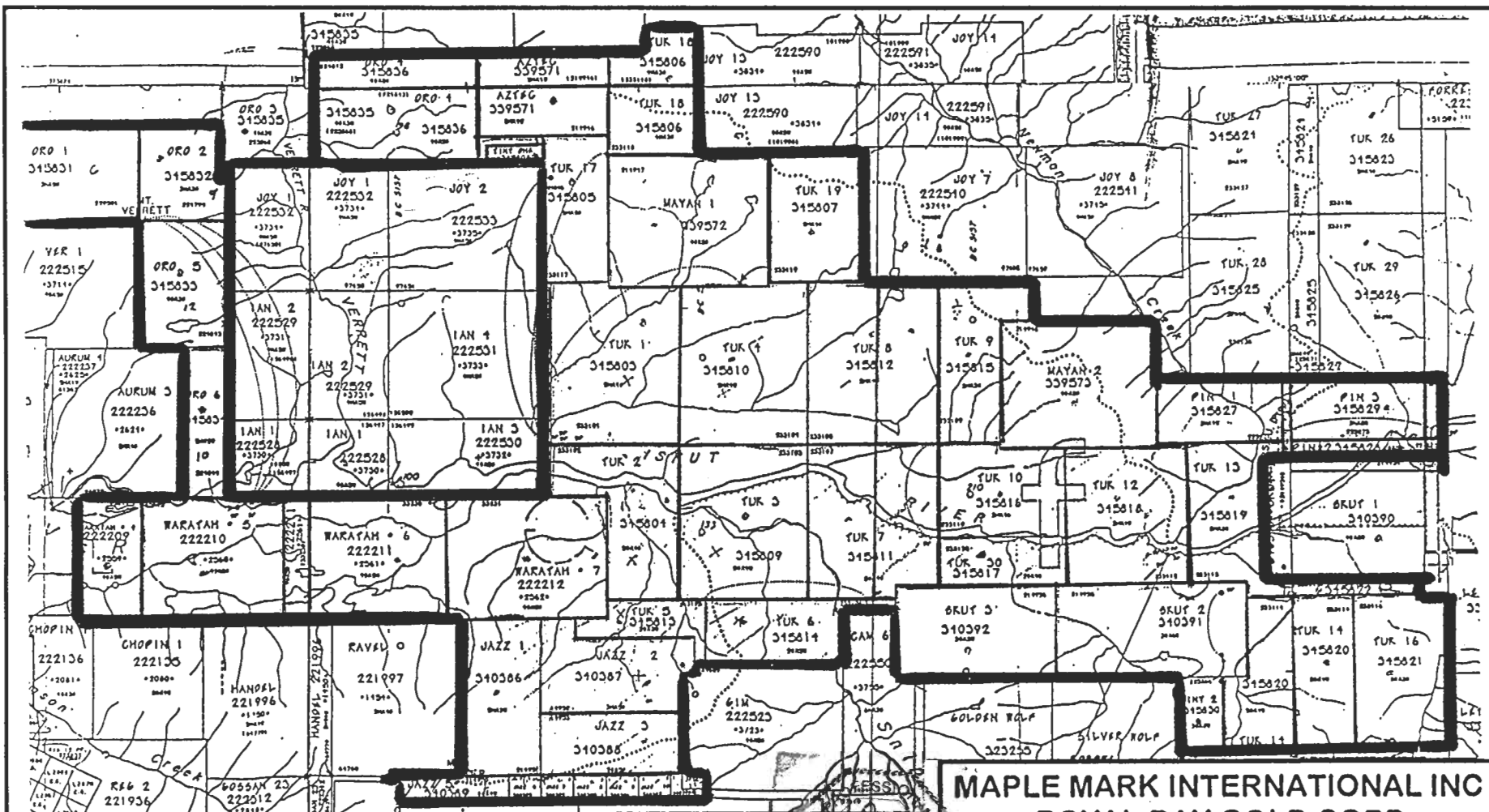
The majority of the property is covered by mature spruce and hemlock. Devils club and slide alder are common.

The climate is typified by cold, snowy winters and warm, wet summers. Snow accumulations are 1 to 2 meters near the Iskut River and normally exceed 5 meters at higher elevations. Snow may be present all year at higher elevations.

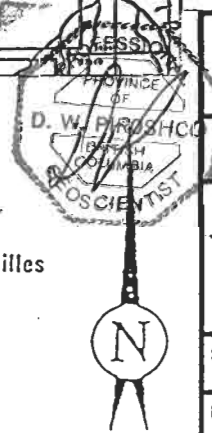
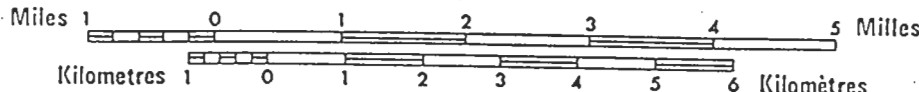
Recommended work season is June to October.



MAPLE MARK INTERNATIONAL INC		
ROYAL BAY GOLD CORP		
WARATAH JAZZ PROJECT		
LOCATION MAP		
Scale As shown	N.T.S.	Drawn by
Date Sept 1996	Geologist DP	Figure 1
RELIANCE GEOLOGICAL SERVICES INC		



SCALE 1:100,000 ÉCHELLE



**MAPLE MARK INTERNATIONAL INC
ROYAL BAY GOLD CORP
WARATAH JAZZ PROJECT**

CLAIM MAP

Scale As shown	N.T.S. 104B/10W, 10E, 11E, 15W	Drawn by
Date Sept1996	Geologist DP	Figure 2

RELIANCE GEOLOGICAL SERVICES INC

3.0

PROPERTY STATUS

The property consists of 47 claims totalling 615 units (Figure 2) in the Liard Mining Division, covering approximately 15,375 hectares. Details of the claims are as follows:

Claim	Tenure Number	Units	Expiry Date	Owner
TUK 1	345803	20	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 2	345804	20	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 3	345809	20	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 4	345810	20	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 5	345813	10	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 6	345814	10	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 7	345811	20	04 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 8	345812	10	04 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 9	345815	15	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 10	345816	12	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 12	345818	20	06 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 13	345819	15	06 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 14	345820	20	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 15	345822	4	06 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 17	345805	10	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 18	345806	12	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 19	345807	4	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TUK 30	345817	8	05 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
PIN 1	345827	8	06 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
PIN 2	345828	5	06 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
PIN 3	345829	10	06 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TINY ONE	345808	2	07 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
TINY TWO	345830	6	07 May 99	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
ORO 1	345831	20	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
ORO 2	345832	20	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
ORO 4	345836	20	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
ORO 5	345833	20	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)
ORO 6	345834	20	08 May 97	Royal Bay Gold Corp (50%); Maple Mark International Inc. (50%)

Claim	Tenure Number	Units	Expiry Date	Owner
WARATAH 4	222209	20	13 Sep 01	Royal Bay Gold Corp
WARATAH 5	222210	20	13 Sep 01	Royal Bay Gold Corp
WARATAH 6	222211	20	13 Sep 01	Royal Bay Gold Corp
WARATAH 7	222212	20	13 Sep 01	Royal Bay Gold Corp
MAYAN 1	339572	20	31 Aug 97	Connecticut Development Corporation
MAYAN 2	339573	20	31 Aug 97	Connecticut Development Corporation
AZTEC	339571	20	31 Aug 97	Connecticut Development Corporation
JAZZ 1	340386	15	15 Sep 97	Maple Mark International Inc.
JAZZ 2	340387	15	15 Sep 97	Maple Mark International Inc.
JAZZ 3	340388	10	15 Sep 97	Maple Mark International Inc.
JAZZ 4	340393	4	15 Sep 97	Maple Mark International Inc.
JAZZ 5	340389	1	15 Sep 97	Maple Mark International Inc.
JAZZ 7	340394	1	15 Sep 97	Maple Mark International Inc.
JAZZ 8	340395	1	15 Sep 97	Maple Mark International Inc.
JAZZ 9	340396	1	15 Sep 98	Maple Mark International Inc.
JAZZ 10	340397	1	15 Sep 97	Maple Mark International Inc.
JAZZ 11	340398	1	15 Sep 97	Maple Mark International Inc.
SKUT 2	340391	18	18 Sep 97	Maple Mark International Inc.
SKUT 3	340392	16	18 Sep 98	Maple Mark International Inc.

The writer is not aware of any particular environmental, political, or regulatory problems that would adversely affect mineral exploration and development on the properties.

4.0

AREA HISTORY (Figure 3 and Table 1)

The following is summarized from Caulfield (1988).

The first recorded work in the Iskut River area was in 1907 by a prospecting party from Wrangell, Alaska, who staked nine claims north of Johnny Mountain. Iskut Mining Company subsequently worked crown-granted claims along Bronson Creek and on the north slope of Johnny Mountain. By 1920, a nine-meter adit had revealed a number of galena-bearing veins and stringers.

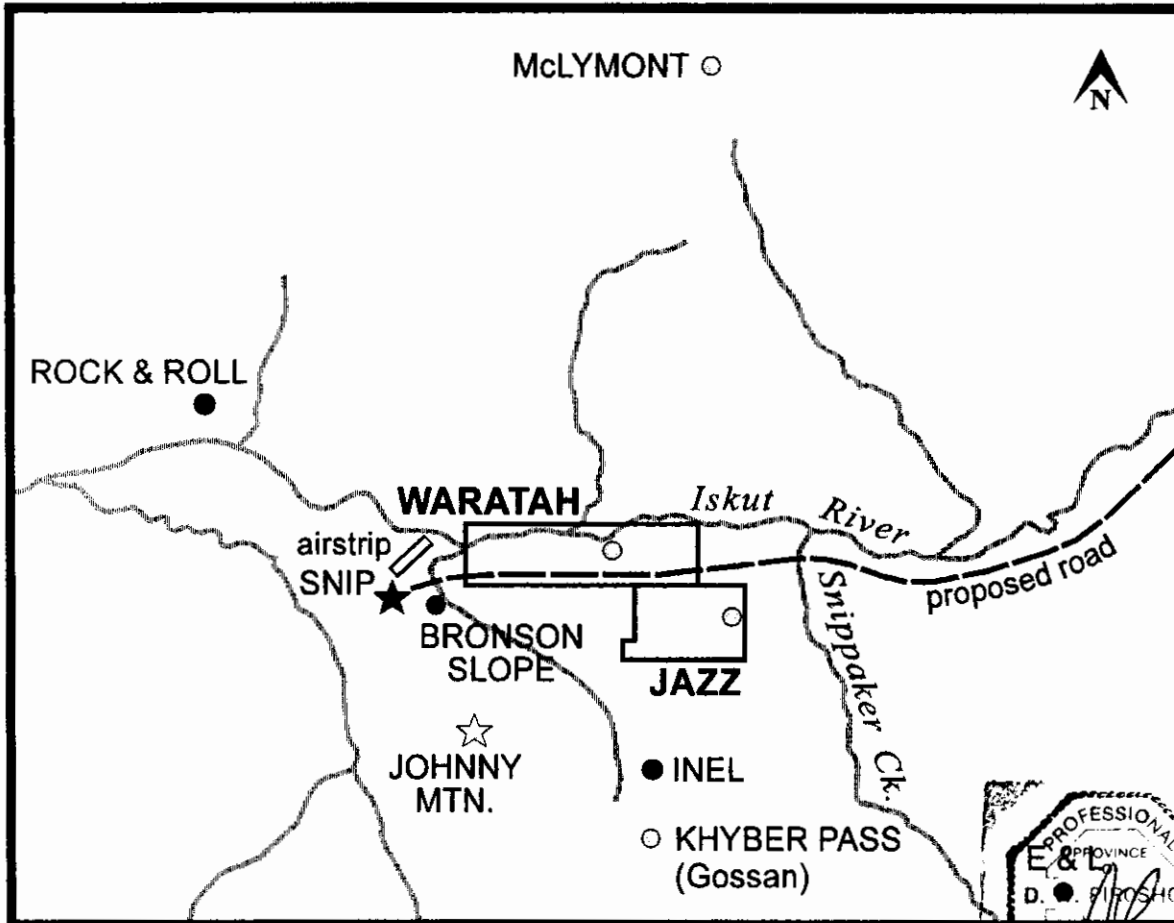
In 1954, Hudson's Bay Mining and Smelting located the Pick Axe showing and high grade gold-silver-lead-zinc float on the open upper slopes of Johnny Mountain. The claims were worked and subsequently allowed to lapse.

During the 1960's, several major mining companies conducted helicopter-supported reconnaissance exploration programs in their search for porphyry copper-molybdenum deposits. Several claims were staked on Johnny Mountain and in the Bronson Creek area. Cominco staked claims over a gold-bearing quartz vein which was developed into the Snip gold deposit, currently in production.

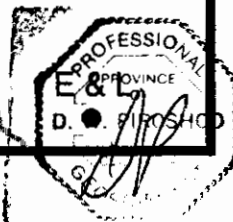
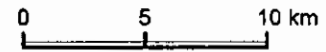
The Twin Zone at the Snip mine is a 0.5 to 15 meters wide, 120°- trending shear zone that dips from 15 to 90° southwest. The zone has been traced for over 1 kilometer along strike, and 500 meters depth. The host rocks are a feldspathic greywacke and siltstone sequence. Mineralization occurs in two zones and consists of 1 centimeter to 1 meter wide alternating bands of calcite and pyrite and biotite and calcite, or as quartz-sulphide breccia zones, or in pyritic or non-pyritic fault gouge. The most recent reserve estimate is 625,000 tons of 26.5 g/mt gold (Minfile NTS 104B 250).

In 1969, Skyline Explorations staked the Inel property after discovering massive sulphide float originating from the head of the Bronson Creek glacier. They restaked the Reg property on Johnny Mountain in 1980. In the following years, Skyline carried out extensive trenching, drilling and underground development on polymetallic veins on both the Reg and Inel properties, defining zones of high grade gold-silver mineralization. The Johnny Mountain Mine went into production for a brief period during 1989 and 1990.

The deposits consist of a series of northeast-trending quartz-pyrite and chalcopyrite veins hosted within a shear zone cutting andesitic volcanoclastics. The most recent reserve calculation of the Stonehouse deposit is 24,000 tons grading 11.3 g/mt gold, 22.0 g/mt silver and 0.23% copper (Minfile NTS 104B 107).



- ★ Producing Mine
- ☆ Past Producing Mine
- Deposit
- Advanced Prospect



Maple Mark International Inc
Royal Bay Gold Corp

WARATAH JAZZ PROJECT

Mineral Deposits in the Iskut Camp

Scale: see above	N.T.S.	Drawn by:
Date:	Geologist:	Figure: 3
RELIANCE GEOLOGICAL SERVICES INC.		

Table 1

Mineral Deposits in the Iskut Camp

Deposit	Type	Commodity	Reserves (tonnes)	Au (oz/t)	Ag (oz/t)	Cu (%)
SNIP	vein	Au,Ag,Cu	625,000	0.77		
JOHNNY MTN.	vein	Au,Ag,Cu	24,000	0.33	0.64	0.23
ROCK & ROLL	massive sulph.	Au,Ag,Cu,Pb,Zn	580,544	0.07	9.80	0.64 / 3.08% Zn
BRONSON SLOPES	porphyry	Au,Cu,Ag,Mo	90 mill.	0.022		0.16
E & L	magmatic sulph.	Ni,Cu	1.734 mill.	0.8% Ni		0.62
INEL (Discovery Zone)	vein	Au,Ag	317,485	0.10		
KYBER PASS	vein	Au,Ag,Cu,Zn		n/a		
McLYMONT	skarn	Au,Ag,Cu		n/a		

5.0

PREVIOUS WORK

The following includes excerpts from Pegg (1990), and Todoruk and Ikona (1987):

The Waratah property was first staked in 1982 by Skyline Explorations Ltd. In 1983, a Skyline-Placer Development joint venture contracted an airborne Dighem III survey over the claims area. Skyline then optioned the property to Gulf International Minerals Ltd in 1984, who carried out linecutting, soil sampling, prospecting and trenching. Additional linecutting, trenching and a Pulse-EM survey were completed during 1985. This option was subsequently dropped.

In 1986, Hector Resources Inc acquired the Jazz claims, then known as the Sky and Spray claims, through an option agreement with Skyline Exploration Ltd. In 1987, Hector carried out a 140 man-day program including geological mapping, prospecting, and geochemical and geophysical surveys. The program led to trenching and a 15 hole, 610 meter diamond drill program to delineate an auriferous vein known as the Golden Spray Vein.

In 1987 and 1988, Skyline optioned the Waratah property to Tungco Resources Corp. Tungco carried out linecutting, geochemical, geological and geophysical surveys, prospecting, trenching and diamond drilling. This included 33.025 km of linecutting, 45.7 km of magnetic and VLF-EM, 4.0 km of Max-Min and the blasting of 40 trenches. A total of 1,025 soil, 7 heavy mineral, 4 silt, and 509 rock samples were collected and analyzed. Diamond drilling of gold occurrences consisted of 50 holes which totalled 3,645.64 meters. Over 17 gold occurrences were located during this time, most of which were investigated through trenching and/or drilling. An Aerodat Limited airborne VLF-EM and magnetic survey was flown over the property during the spring of 1988.

In 1990, Keewatin Engineering carried out exploration work on the Waratah 7 claim for Big M Resources Ltd as part of an option agreement with Royal Bay Gold Corp, formerly Tungco Resources Corp. The work included geological, geochemical and prospecting surveys, and a trenching and diamond drill program totalling 539.8 meters of BQ drilling in 7 holes over a gold showing known as the Cooper Zone.

Table 2 is a summary of past exploration, drilling and trenching programs on the Waratah property.

Table 2: Summary of Past Work Performed on the Waratah Showings

Name	1987		1988		1990		Total	
	Trenches	Drilling	Trenches	Drilling	Trenches	Drilling	Trenches	Drilling
Lake	1 (T1)	--	--	--	--	--	1	--
Bluff	5 (T2-6)	11 holes (420.7 m)	--	8 holes (675.1 m)	--	--	5	19 holes (1095.8 m)
Swamp	2 (T7-8)	6 holes (251.5 m)	--	--	--	--	2	6 holes (251.5 m)
No. 7	2 (T9-10)	7 holes (366.3 m)	--	8 holes (797.6 m)	--	--	2	15 holes (1163.9 m)
L. Helipad	1 (T11)	--	--	--	--	--	1	--
U. Helipad	1 (T12)	--	--	--	--	--	1	--
X-Cut	3 (T13-15)	--	--	--	--	--	3	--
Mag	3 (T16-18)	--	--	--	--	--	3	--
Golden Arrow	3 (T19-21)	--	--	--	--	--	3	--
Gold Bug	2 (T22-23)	--	3 (T24-26)	8 holes (807.64 m)	--	--	5	8 holes (807.64 m)
E. Gold Bug	--	--	1 (T36)	--	--	--	1	--
River	--	--	--	--	--	--	--	--
Boot Hill	--	--	5 (T27, 28, 37-39)	2 holes (226.8 m)	--	--	5	2 holes (226.8 m)
Badger	--	--	3 (T30-32)	--	--	--	3	--
No. 9	--	--	2 (T33-34)	--	--	--	2	--
No. 11	--	--	1 (T35)	--	--	--	1	--
Flare	--	--	1 (T29)	--	--	--	1	--
Cooper	--	--	--	--	3 (L, M, U)	7 holes (539.8 m)	3	7 holes (539.8 m)

(from Pegg, 1990)

6.0 **REGIONAL GEOLOGY**

The following is an excerpt from Pegg (1990):

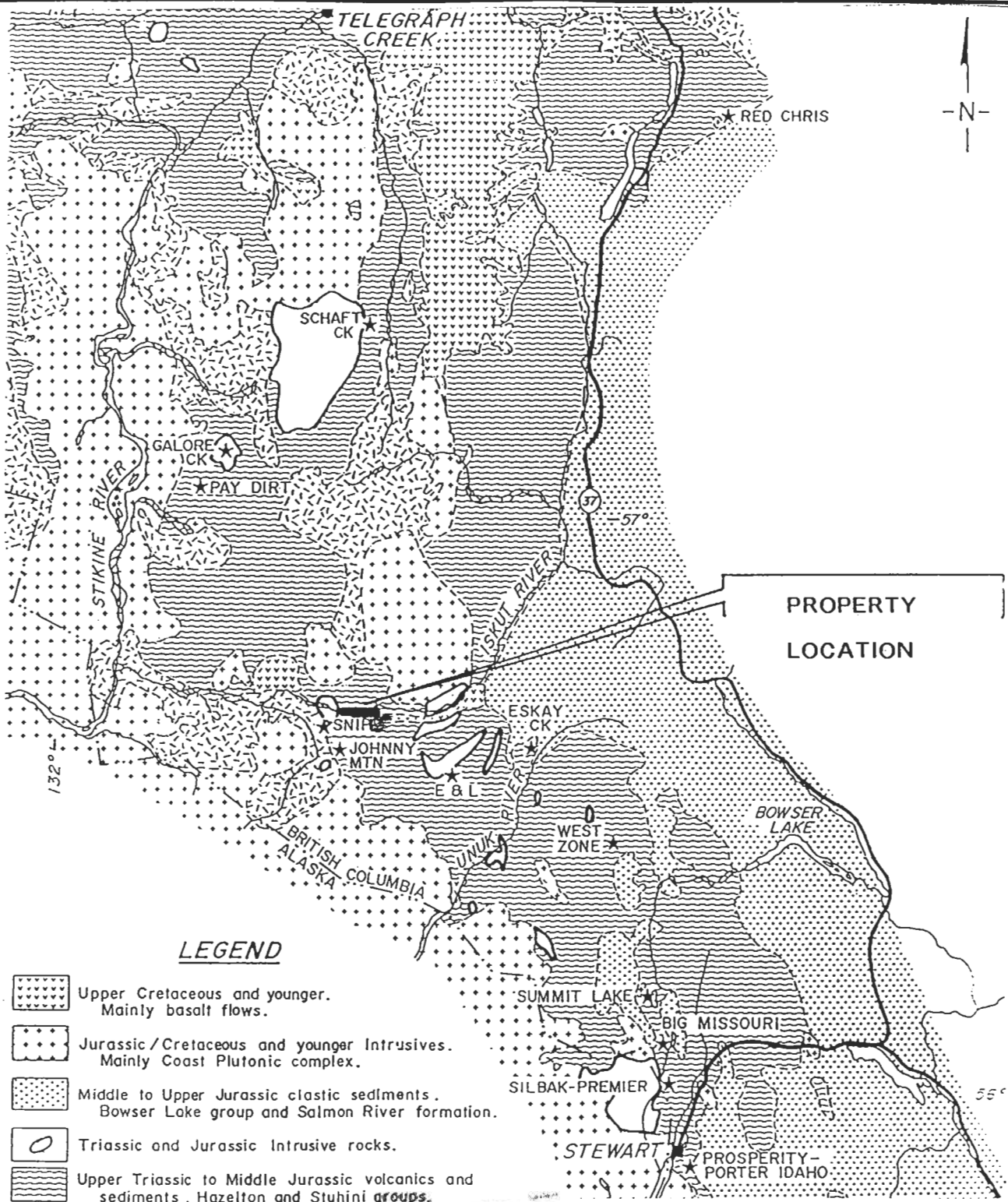
"The Iskut River area lies within the Intermontane tectono-stratigraphic belt (Figure 4) - one of five, parallel, northwest/southeast trending belts which comprise the Canadian Cordillera. This belt of Permian to Middle Jurassic volcanic and sedimentary rocks defines the Stikinia/Stikine terrane. This is bounded on the west by the Coast Plutonic Complex and overlapped on the east by younger sediments of the Bowser Basin. The belt has been intruded by at least four episodes of plutonic rocks, from Late Triassic to Oligocene-Miocene."

7.0 **PROPERTY GEOLOGY**







The following is an excerpt from Pegg (1990): See Figure 5.

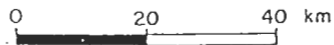
"The main stratigraphic unit in the area is the Upper Triassic Stuhini Group (Anderson, 1989 and Alldrick, 1990). This group is characterized by basic to intermediate volcanics which underlie andesitic volcanoclastics and flows and interbedded dark siltstones and fine to medium grained greywackes.

The eastern side of the property is generally underlain by tuffs and flows of apparent andesitic composition. Plagioclase phyric flows which grade into ash to crystal to lapilli tuffs and tuff breccias predominate. These flows contain rounded, monolithic porphyry fragments, up to 45 cm but generally less than 15 cm in diameter, and plagioclase phenocrysts, to 7 mm, in a fine grained dark green-grey matrix. The lapilli tuffs exhibit subangular to subrounded, porphyritic fragments, generally less than 2 cm across, but up to 5 cm locally, in a dark green matrix. The crystal tuffs display up to 60% euhedral to anhedral plagioclase phenocrysts, 1 to 3 mm long, in a dark to light grey-green groundmass. The volcanic rocks are commonly interfingered and exhibit gradational contacts. A few scattered exposures of black, banded and argillaceous siltstones were observed within the northeast grid area. Sediments dominate the northwestern portion of the property.



LEGEND

-  Upper Cretaceous and younger. Mainly basalt flows.
-  Jurassic/Cretaceous and younger Intrusives. Mainly Coast Plutonic complex.
-  Middle to Upper Jurassic clastic sediments. Bowser Lake group and Salmon River formation.
-  Triassic and Jurassic Intrusive rocks.
-  Upper Triassic to Middle Jurassic volcanics and sediments. Hazelton and Stuhini groups.
-  Permian and older sediments and volcanic/metamorphic equivalents
- ★ Mineral Deposit



**MAPLE MARK INTERNATIONAL INC
ROYAL BAY GOLD CORP
WARATAH JAZZ PROJECT**

REGIONAL GEOLOGY

Scale As shown	N.T.S. 104B/10W, 10E, 11E, 15W	Drawn by
Date Sept 1996	Geologist DP	Figure 4

RELiance GEOLOGICAL SERVICES INC

The volcanics are cut by a number of equigranular monzodiorite to diorite sills, plugs and dykes. Orthoclase porphyry was noted in the northeast corner of the southeast grid. Locally, narrow aplite dykes were also observed.

Propylitic alteration of the volcanic section is widespread, especially within the northeast grid area. Locally, silicified pods were observed associated with shear zones throughout the target area. In the Cooper zone area, ankerite/siderite alteration was noted to the west of the trenches.

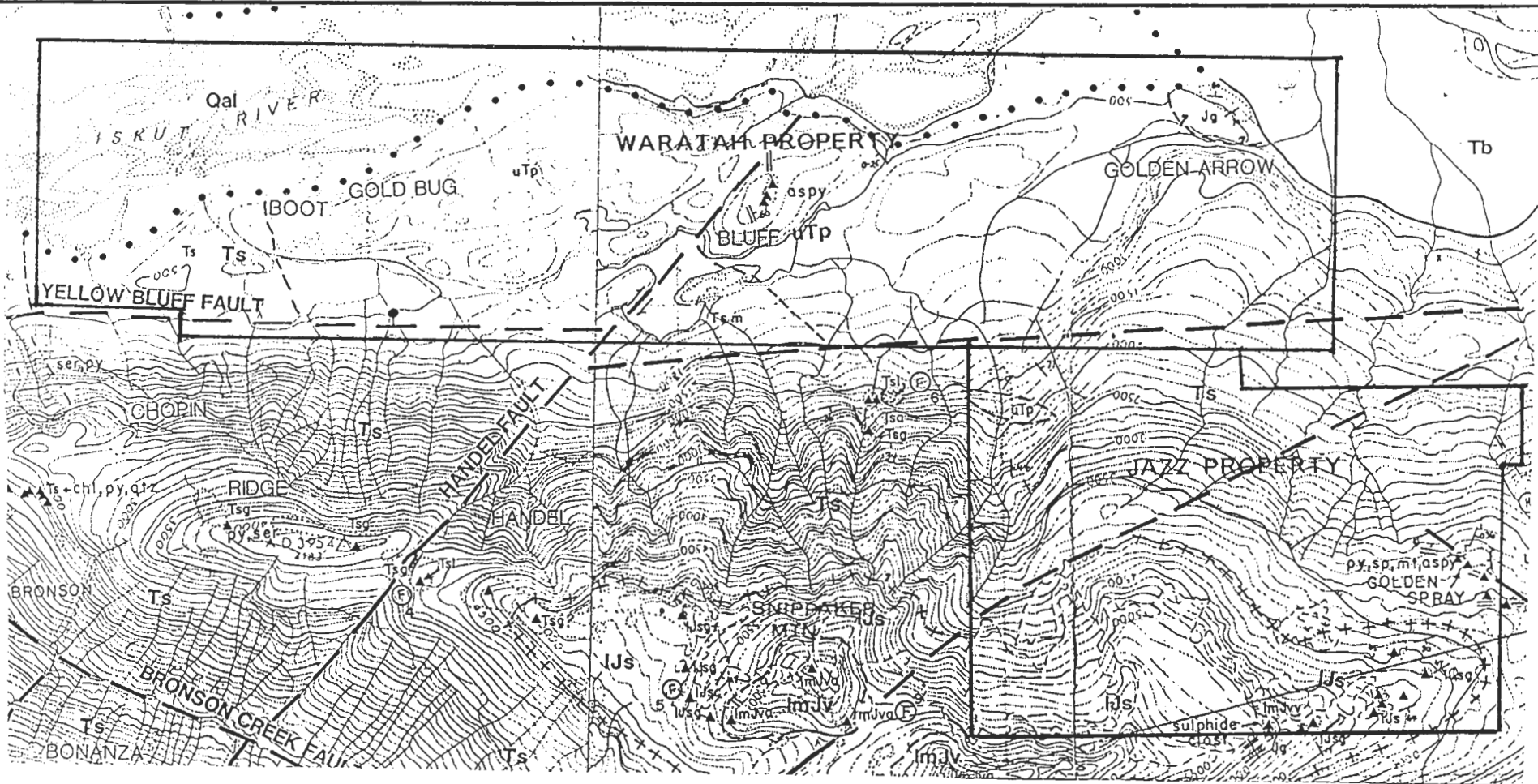
The eastern portion of the property is cut by numerous lineaments and narrow, discontinuous topographic depressions. These generally trend northeast and northwest and probably reflect underlying shears and/or fracture zones. The majority of these gullies within the northeast grid trend at 070°, with a lesser number trending at 150°. Observed shear zones within the southeast grid were measured at 110° - 120° / 58° - 85° NE."

The following descriptions summarize known mineral occurrences on the Waratah/Jazz properties.

Waratah 6 (From Minfile NTS 104B - No. 204 - see Figure 6 and Table 3)

"Mineral occurrences on the Waratah may be classified into 3 categories: copper-gold veins, gold-pyrite veins (i.e. Golden Arrow; 104B 296), and copper, lead, zinc, silver and gold veins (Gold Bug; 104B 295). The greatest number of mineralized showings consists of copper-gold veins. Up to 18 different veins with gold values occur on the Waratah 6 claim, trending approximately 130°. These veins are associated with a northeast-trending fault, the Handel Fault, which cuts through the Waratah 6 claim and trends southwest, upslope to Johnny Mountain.

The best examples of copper-gold vein mineralization are the Bluff, Swamp, and No. 7 veins. The mineralization consists of pyrite, chalcopyrite, magnetite, arsenopyrite within quartz-chlorite veins. Minor bornite, chalcocite, native copper have been reported. Better gold grades occur with higher sulphide content.



CENOZOIC

QUATERNARY

Qal UNCONSOLIDATED GLACIAL TILL AND POORLY SORTED ALLUVIUM

MESOZOIC

JURASSIC

IJs ORANGE-WEATHERING CLASTIC SEDIMENTS

JURASSIC OR TRIASSIC

uTp MAFIC PLAGIOCLASE AND CLINOPYROXENE PHYRIC FLOWS AND VOLCANICLASTIC ROCKS; CAN OCCUR INTERBEDDED WITH UNIT uTv

MESOZOIC OR PALEOZOIC

TRIASSIC OR OLDER

Ts BEDDED SANDSTONE, SILTSTONE, SHALE AND PEBBLY SANDSTONE; OCCASIONAL BEDS OF CONGLOMERATE AND BRECCIA



**MAPLE MARK INTERNATIONAL INC
ROYAL BAY GOLD CORP**

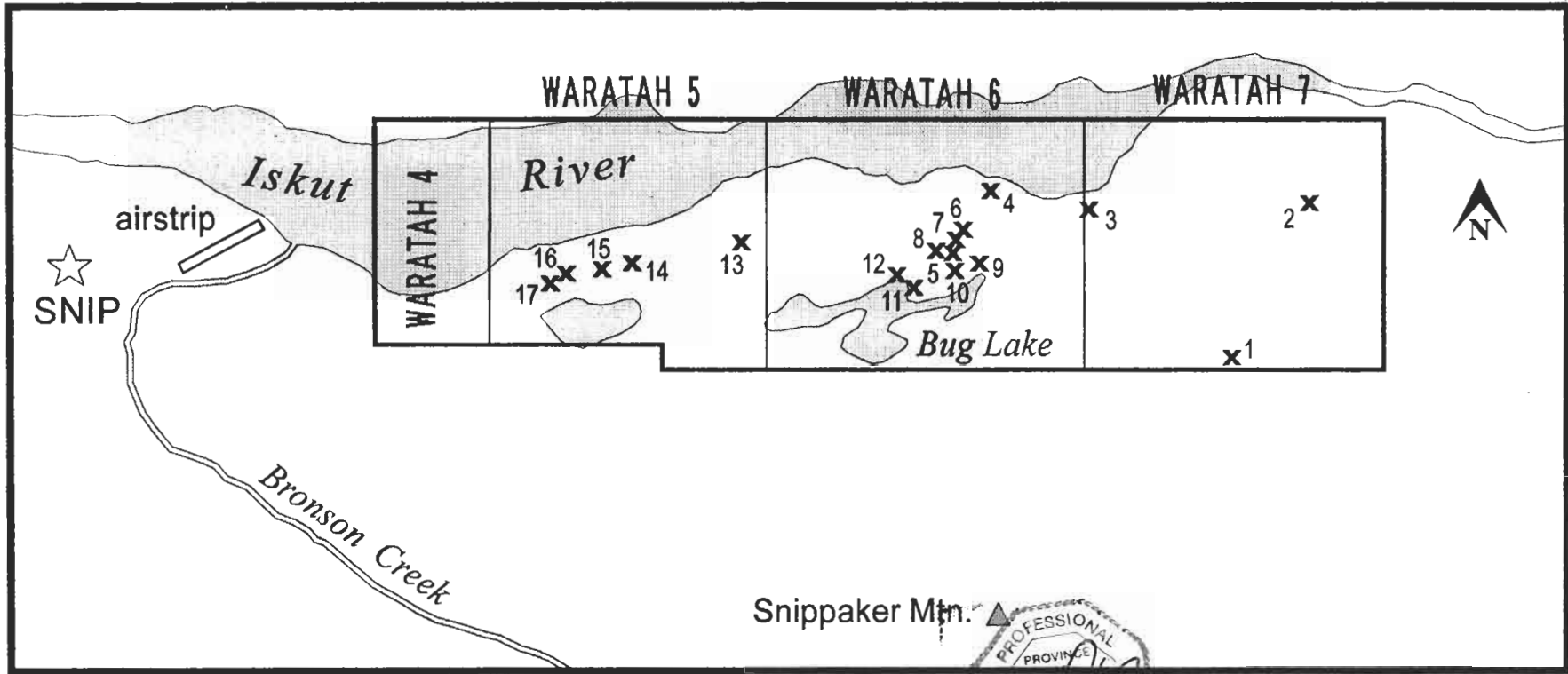
WARATAH JAZZ PROJECT

PROPERTY GEOLOGY

Scale As shown	N.T.S. 104B/10W, 10E, 11E, 15W	Drawn by
Date Sept 1998	Geologist DP	Figure 5

RELIANCE GEOLOGICAL SERVICES INC

From Lefebure and Gunning (1989)



- | | |
|-----------------------|--------------------|
| 1 - Cooper Zone | 9 - Mag Vein |
| 2 - Golden Arrow Vein | 10 - No.7 Vein |
| 3 - River Vein | 11 - Lake Showing |
| 4 - No.11 Vein | 12 - Badger Vein |
| 5 - Bluff Vein | 13 - No.9 Showing |
| 6 - Swamp Vein | 14 - East Gold Bug |
| 7 - X-Cut Vein | 15 - Gold Bug |
| 8 - Helipad Veins | 16 - Boot Hill |
| | 17 - Flare |

Maple Mark International Inc Royal Bay Gold Corp		
WARATAH JAZZ PROJECT		
WARATAH Gold Showings		
Scale: see above	N.T.S.	Drawn by:
Date: Sept. '96	Geologist:	Figure: 6
RELIANCE GEOLOGICAL SERVICES INC.		

Table 3

WARATAH PROPERTY Gold Showings

Showing	Gold (oz/ton)	Width (metres)	Showing	Gold (oz/ton)	Width (metres)
Cooper	0.72	2.50	X-Cut	1.03	0.25
	0.16	4.40	Mag	1.16	0.20
	0.34	3.00	No. 7	2.09	1.00
	0.11	5.00		0.64	0.80
		0.74		0.55	
Golden Arrow	4.43	0.23	Lake	0.42	-
	1.53	0.33			
Bluff	1.10	0.45	Badger	0.45	0.55
	0.98	0.45		0.38	0.65
	1.42	0.30	Gold Bug	0.30	0.85
	0.80	0.30		0.87	0.75
Swamp	10.07	0.75		0.75	0.60
	1.00	0.55	Boot Hill	0.42	1.10
	1.46	0.33		0.71	0.70
		0.50		0.75	
Helipad	0.39	0.40	Flare	0.76	float
	0.54	0.40			

A 0.5 meter wide chip sample from the main vein in trench 2 on the Bluff showing in 1987, consisting of a quartz vein with massive and banded pyrite, arsenopyrite, and chalcopyrite on the footwall, assayed 37.7 g/mt gold, 26.06 g/mt silver, and 0.23% copper (Assessment Report No. 16904).

A 0.75 meter sample from the Swamp Vein, which consists of massive pyrite, magnetite, and chalcopyrite, assayed 345.32 g/mt gold, 115.88 g/mt silver and 0.15% copper.

The No. 7 vein is comprised of massive lenses of pyrite, chalcopyrite and magnetite. A 1.0 meter sample taken from Trench 9 assayed 71.59 g/mt gold, 89.48 g/mt silver and 0.41% copper (Assessment Report 16904).

The 1988 drill program, which was designed to test the strike and depth extension of the Bluff and No. 7 veins, has indicated that the Bluff vein mineralization extends to a depth of 75 meters in hole 27. A 2.5 meter mineralized intersection from this hole assayed 8.7 g/mt gold. The No. 7 vein was extended 120 meters along strike with intersections grading 5.93 g/mt gold over 3.0 meters."

Gold Bug (from Minfile NTS 104B 295).

"The Gold Bug zone is located on the western side of the Waratah property and is reported to strike over 60 meters. Mineralization in the zone is comprised of semi-massive pyrite, magnetite and chalcopyrite within quartz-chlorite veins that are characterized by the presence of sphalerite and galena. This veining is similar to the copper-gold veins on the Waratah 6 claim. Alteration consists of a narrow envelope which consists of pervasive chlorite-carbonate alteration penetrated by a network of carbonate-quartz-pyrite veinlets adjacent to the vein walls.

The lead and zinc mineralization is accompanied by lower gold values, generally ranging between 0.3 to 3.4 g/mt and higher silver values.

An 0.85 meter sample from Trench 22, taken across a massive sulphide zone (pyrite, magnetite, chalcopyrite), in a quartz-chlorite vein called the Upper Gold Bug vein, assayed 10.4 g/mt gold, 20.4 g/mt silver, 0.4% copper, 0.03% lead, and 0.86% zinc. A select sample taken from a 20 by 40 centimeter pod within this vein assayed 20.1 g/mt gold, 16.5 g/mt silver, 0.4% copper, 0.03% lead, and 0.39% zinc (Assessment Report 16904). Samples taken in 1988 from trenches in the Gold Bug zone ranged from 7.37 g/mt gold over 0.3 meters to 29.7 g/mt gold over 0.77 meters."

Boot Zone (From Minfile NTS 104B No. 297)

"In 1988, gold mineralization in the Boot zone was located about 400 meters west of the Gold Bug Vein. This gold mineralization appears to be structurally controlled within a faulted, highly altered sedimentary unit. Alteration and pyrite mineralization are associated with extensive quartz-calcite veining and abundant limonitic staining.

A grab sample from the Boot zone assayed 3.63 g/mt gold. Another sample taken over 0.70 meters assayed 24.3 g/mt gold."

Golden Spray (From Minfile NTS 104 208).

"The most significant mineralization found on the Jazz property is confined to a prominent northwest-southeast lineament which is in excess of 1.0 kilometers long, and is referred to as the Main Creek. Auriferous quartz veining exposed in trenches in the Golden Spray Zone strike 300 meters along this structure. A second parallel lineament lies 200 meters to the north, and both of these structures are intersected by a north-south lineament which cuts the north end of the Golden Spray zone.

In 1987, 5 trenches were excavated along a 300 meter strike length of the Golden Spray zone. Trenches 1 and 2 host parallel quartz veining with massive pyrite, separated by up to 1.0 meter of fractured chloritic greywacke. The zone trends 102° with a vertical dip. The limonitic quartz veining is also associated with minor magnetite and galena.

A sample from trench 87-1 of semi-massive pyrite in limonitic quartz veining assayed 11.28 g/mt gold and 69.1 g/mt silver.

Trench 87-3 exposes the best mineralized part of the Golden Spray zone, the Golden Spray vein. This vein hosts massive pyrite with lesser sphalerite and magnetite in quartz veining up to thicknesses of 1.4 meter over a strike length of 13 meters. The zone trends 117° with a vertical dip. In 1987, two chip samples of massive pyrite and minor magnetite assayed 4.94 g/mt gold and 81.0 g/mt silver, and 5.35 g/mt gold and trace silver.

A series of limonitic quartz pyrite veins occur along the Main Creek and trend about 135° , dipping 75° northeast. Auriferous quartz veins occur mainly on the east side of Main Creek."

8.0

1996 WORK PROGRAM

8.1 Methods and Procedures - General

Line slashing, grid establishment, geological mapping, prospecting, blast trenching and VLF-EM and magnetic geophysical surveys were carried out on the claims.

The grid was cut over portions of the WARATAH 7, JAZZ 1 and TUK 5 claims. Cross-lines were put in at 50 meter line spacings using compass, hipchain, wooden pickets, flagging, and metal tags. Stations on baselines and cross-lines were marked at 12.5 meter intervals with marked double flagging, and at 25 meter intervals using pickets and metal tags. Total line cut and surveyed was 5.1 kilometers.

Prospecting and geological mapping at a 1:5,000 scale were carried out over the JAZZ 1 and 2, WARATAH 7, and TUK 5 claims (Figure 7). Grid mapping was done at a 1:1,250 scale (Figure 8). Sixty-six rock samples were collected and analyzed for gold and multi-element ICP by IPL Laboratories of Vancouver.

Over 100 meters of blast trenching in sixteen locations was carried out on the Waratah 7 claim (Figures 7, 9, 10, 11). Fifty-four 1 meter x 1 meter panel samples were taken from the trenches and analyzed for gold and multi-element ICP by IPL Laboratories of Vancouver.

Rock and trench sample descriptions and analytical reports and techniques are presented in Appendices A and B.

A VLF-EM and magnetic survey totalling 4.5 line kilometers was carried out over the grid. An Omni-plus system was used to simultaneously measure total field magnetic data and VLF-EM data from 21.4 kHz (Hawaii), and 24.8 kHz (Seattle) transmitters. Parameters measured were total magnetic field strength, and VLF-EM field strength, in-phase angle and quadrature.

Total field magnetic data were corrected for diurnal variation by the internal programming of the Omni IV base station. The instruments interpolate a base station reading corresponding to the time of each field reading and correct the field reading to a chosen datum value. The VLF-EM and magnetic data are presented in profile and contours on Figures 12 to 17.

8.2 Geology and Rock Geochemistry, Grid and Map Area

Lithologies

Geology consists of massive, fine grained andesite (Unit 1a) with minor andesitic breccia (Unit 1b) and lapilli tuff (Unit 1c). Local outcrops of interflow greywacke (Unit 2a) and argillite (Unit 2b) are also present. Monzonite porphyry (Unit 3) was observed in the northern portion of the WARATAH 7 claim in the vicinity of the Golden Arrow vein.

Alteration

Andesite in the grid area is weakly to moderately altered to chlorite and calcite. Where carbonate alteration is relatively strong, the rock is bleached on fresh and weathered surfaces. Silicification is locally present along fractures and shear zones. Silicified zones, such as the Cooper Zone, are up to 5 meters in width but tend to be discontinuous along strike. These zones may contain up to 35% pyrite and host sulphide-rich quartz veins.

Structure

The attitude of the strata in the grid area is unknown because lithological contacts or bedding were not observed. The dominant structures are northwest trending fractures and shear zones that host quartz-carbonate veining and sulphide and gold mineralization. North to northeast trending fractures are also observed locally.

Mineralization

Mineralization in the map area includes silicified, sulphide-rich shear zones (Cooper Zone, No. 16 zone), and quartz-sulphide veins (Golden Arrow, Golden Spray, Nos. 14 and 15 veins). Minor accessory minerals include chalcopyrite, arsenopyrite, galena, sphalerite, molybdenite, carbonate, and chlorite/biotite.

COOPER ZONE

The Cooper Zone is a gold-bearing, sulphide-rich shear zone that was discovered in 1990. The zone trends at 120° and dips subvertical. During 1990, the zone was trenched in three locations over approximately a 75 meter strike length, and drilled in seven locations totalling 539.8 meters. The results of the 1990 program were considered inconclusive (Pegg, 1990).

During 1996, the Cooper Zone was blast-trenched in seven locations to further delineate the width and strike extent (Figure 9). Trenching results indicate that the zone is up to 5 meters in width, approximately 150 meters in strike length, cut by a fault of unknown attitude to the southeast, and pinching out to the northwest.

At T96-1, the Cooper zone is characterized by intense silicification, narrow zones and veins of massive and semi-massive pyrite, scattered blebs of chalcopyrite and molybdenite, traces of arsenopyrite, and quartz chlorite carbonate clots. The wall rock contacts are relatively sharp and the adjacent andesite is weakly altered to chlorite and carbonate, with pyrite virtually absent. Gold values in the wall rock are negligible. To the southeast of T96-1, the zone widens but the intensity of silicification, and pyrite content, is lower. T96-6, located to the northwest of T96-1, did not intersect the Cooper Zone. The 2.93 g/mt gold value is from a narrow quartz pyrite vein subparallel to the zone.

Significant results of panel sampling across the Cooper Zone are:

Trench	Area (m ²)	Au(g/mt)	Ag (ppm)
T96-1	1.0	14.73	32.0
	1.0	14.00	45.5
	1.0	6.07	10.5
T96-3	1.0	10.30	8.3
	1.0	2.07	6.6
	1.0	2.93	7.2
	1.0	2.83	8.6
	1.0	1.47	10.8
T96-4	1.0	1.17	3.7
	1.0	0.12	1.0
	1.0	1.91	2.9
	1.0	0.41	1.5
	1.0	2.74	3.9

Results from sulphide-rich, select samples from the Cooper Zone include:

Sample #	Au (g/mt)	Ag (ppm)	Cu (ppm)
28268	22.71	47.2	7702
28269	57.33	80.6	3243
28270	45.83	48.8	6984
28272	122.67	74.9	349
28285	48.45	21.6	591

No. 14 VEIN

The No. 14 vein (Figure 10) strikes northwest, dips steeply northeast, and has a limited strike length of approximately 5 meters. The vein consists of quartz with local pods of massive pyrite and blebs of chalcopyrite. Gold assay results from chip sampling include 15.02 g/mt over 0.40 meters and 2.11 g/mt over 0.95 meters. A select sample of pyrite-rich vein material assayed 20.17 g/mt.

No. 15 VEIN

The No. 15 vein (Figure 10)), located in the vicinity of the No. 14 vein, strikes northwest, dips 70° northeast and has a limited strike length of approximately 10 meters. The vein consists of quartz with local zones of massive pyrite and traces of arsenopyrite and galena. Gold assay results from chip sampling include 16.90 g/mt over 0.50 meters. Select samples of pyrite-rich vein material assayed 17.70, 19.3, and 27.90 g/mt.

No. 16 ZONE

The No. 16 zone (Figure 11), located at the southeast end of the grid, strikes northwest, dips subvertically, and has a minimum strike length of approximately 16 meters. The zone is characterized by a low density of quartz-pyrite fracture-fillings and local quartz-pyrite lenses. Traces of chalcopyrite, arsenopyrite, specular hematite, sphalerite, galena, and carbonate are also present. Significant gold assay results from chip sampling include 3.75 g/mt over 1.5 meter and 1.77 g/mt over 1.5 meter. A select sample with blebs of sphalerite and galena returned values of 2.90 g/mt Au, 14.8 ppm Ag, 1.3% Pb and 1.2% Zn.

8.3 Geophysics

Eleven line-kilometers of magnetometer and VLF data were collected on eleven grid lines oriented at 42°. Three VLF stations were read: Cutler, Hawaii, and Seattle. Signals for all three were weak but useable. Data was plotted and interpreted by J. Thornton, geophysicist, P.Geo.

VLF Survey

None of the observed features is particularly strong. (Figures 12 to 16). The Cooper Zone is identifiable as weakly anomalous compared to background.

Data for the Hawaii and Seattle stations appear to complement one another. Structural features in the direction of Seattle (chiefly the Cooper Zone) appear to be controlled by structures trending N/S (or slightly NW/SE) which are weakly evident in the Hawaii data. Two such N/S trends are readily observed; there may be several more such faults spaced 50 meters apart to the east for several hundred meters contributing to the apparent weakness in the observed response. Toward the south end of the survey area, the response in the Seattle data appears to improve somewhat.

Data along the east edge of the grid suggest the presence of another conductor, which may be a topographic effect caused by the steep terrain. This weak anomaly is confined to lines 1200E, 1250E and 1300E in the Seattle data.

Cutler data identifies the conductor in the northeast part of the grid as the predominant feature and ascribes a different strike to the anomaly in the Cooper zone region. However, the data is noisier than for the other channels and anomaly amplitudes are not much above the noise level. This data is given a lower credibility than the Seattle and Hawaii data sets.

Magnetometer Survey

The magnetometer data has a range of 56000 to 58400 nT, with an average of 57220 nT, but despite the wide variations does not show much line-to-line correlation.

Three features are recognized in the data:

- 1) A northwest-trending strong magnetic low is observed in the data near the northeast end of the survey grid.
- 2) A series of magnetic highs trending east-west may indicate the presence of a discontinuous crosscutting dyke.
- 3) A very weak magnetic trend parallel to a VLF conductor identified as the Cooper Zone.

The data otherwise appears to reflect the highly variable nature of the underlying volcanic rocks.

The main objective of the 1996 program was to define the strike length of the Cooper Zone, the main recommendation of Pegg (1991), who compiled and reviewed all existing data on the Waratah claims. The results of the 1996 program indicate the Cooper Zone is approximately 150 meters long and up to 5 meters wide. The most significant mineralization occurs over a 50 meter strike length, characterized by quartz veining, intense silicification, and high sulphide content. The highest gold assay result was 11.6 g/mt over 3.0 meters. To the southeast, the Cooper Zone widens, but veining, silicification, pyrite content, and gold values decrease (<3.0 g/mt), before the zone is truncated by a fault. To the northwest, the Cooper Zone pinches out and gold values decrease. Previous drilling has determined the zone pinches out at depth. Therefore further work has not been recommended on the Cooper Zone .

The strike lengths and widths of the Nos. 14, 15, and 16 showings, discovered by prospecting during the 1996 program, were also evaluated. The results indicate that showings are typically narrow (<1 meter width) and discontinuous along strike. The highest gold assay results are 15.01 g/mt over 0.4 meters and 16.90 g/mt over 0.5 meters. Further work is not recommended on these showings.

The Iskut Camp is located in an area of relative fault complexity, characterized on the property by the Red Bluff and Handel faults. The large number of gold showings discovered to date on the Waratah/Jazz properties could be due to the presence of the regional faults, and favorable host rock lithologies. The Handel Fault is along strike from gold mineralization at Johnny Mountain, and the Bluff Fault along strike from the Snip mine. Intersection of regional faults which occur on the subject claims may play an important role in localization of continuous, gold-bearing quartz veins.

The logistical and economic feasibility of mineral properties in the Iskut region is enhanced by the existing infrastructure at the Snip mine, including the Bronson Creek airstrip. The Waratah property is less than 5 kilometers from the Snip mine, and the proposed route of the access road from the Stewart-Cassiar highway to the Snip mine passes directly through the Waratah claims.

The Waratah/Jazz property has the potential to host an economic, vein-type or shear zone-type gold deposit, similar to the Snip or Eskay Creek mines, given that the geology and structural controls are similar, over 20 gold occurrences are present, and the infrastructure is relatively good. A considerable amount of man-days have been spent on the Waratah property, but thick vegetation and steep terrain has made exploration inefficient, and as a result, much of the property remains relatively unexplored. An important feature to guide future exploration work is the dominant northwest trend of mineralized structures on the property. The Twin Zone at the Snip Mine is northwest-trending. Grids should be oriented across this dominant trend. Surveys carried out in 1987 and 1988 were dominantly oriented parallel to the trend.

Many of the known gold occurrences on the Waratah property were tested by diamond drilling in 1987 and 1988, but Pegg (1990) indicated potential for mineralization along strike of the Swamp, Bluff, and Flare zones, the Gold Bug, Boot Hill and No. 9 showings, and the River and No. 7 veins. His conclusions were based on the presence of anomalous gold values in soils, and the lack of detailed prospecting along strike. Pegg (1990) did not recommend follow-up work on the Golden Arrow, X-cut, Lower Helipad, Upper Helipad, Badge and Mag veins due to the highly erratic nature and narrow widths (<0.30 meters) of gold mineralization as described below.

At the Golden Arrow Vein, the best gold assay results from trenching include 4.431 oz/ton over 0.23 meters, 2.335 oz/ton over 0.15 meters, 0.986 oz/ton over 0.13 meters, and 1.554 oz/ton over 0.33 meters (Caulfield, 1987).

The highest gold assay results from trenching at the Lower Helipad Vein includes 0.390 oz/ton over 0.40 meters, and 0.16 oz/ton over 0.40 meters, and from the Upper Helipad Vein includes 0.303 oz/ton over 0.20 meters and 0.584 oz/ton over 0.15 meters.

The highest gold assay result from the Cross-cut vein is 0.20 oz/ton over 0.10 meters, and the Mag Vein, 1.156 oz/ton over 0.20 meters (Caulfield, 1987). The highest gold assay results from the Badger Vein include 0.447 oz/ton over 0.55 meters, and 0.384 oz/ton over 0.65 meters.

In 1990, Keewatin Engineering Ltd. followed up on several of Pegg's recommendations and evaluated the strike extensions of the Swamp and Flare zones, and River and No. 9 veins by prospecting and trenching.

The Swamp Vein has a strike length of approximately 20 meters. The highest gold assay results from trenching include 8.83 oz/ton over 1.30 meters, and 1.458 oz/ton over 0.33 meters (Caulfield, 1987). The highest gold assay results from 1987 diamond drilling include 0.564 oz/ton over 0.60 meters, and 0.367 oz/ton over 0.25 meters. Prospecting along strike did not result in discovery of significant mineralization but select samples located approximately 100 meters northwest returned gold assay values of 0.296 oz/ton and 0.388 oz/ton (Pegg, 1991).

The River showing returned a 0.490 oz/ton gold value from a float sample (Caulfield, 1985). Follow-up work in 1990 outlined a vein up to 25 centimeters wide for a 5 meter strike length. The highest gold assay result from chip sampling is 0.152 over 1.0 meters. A select sample from the vein assayed 1.074 oz/ton gold.

At the Flare Zone, a 1.70 meter wide vein can be traced for approximately 8 meters. A 0.50 meter chip sample returned values of 0.89% zinc, 0.10% lead, 0.024 oz/ton gold, and 0.60 oz/ton silver (Caulfield, 1988). The highest gold assay result from follow-up sampling was 597 ppb over 0.70 meters (Pegg, 1991).

At the No. 9 Vein, the highest gold assay result from trenching was 0.171 oz/ton over 0.15 meters (Caulfield, 1988). Follow-up prospecting and re-sampling of trenches did not return significant gold assay results (Pegg, 1990).

The overall results suggested that mineralization at the Swamp, River, Flare, and No. 9 showings pinched-out along strike and further work was not recommended by Pegg (1991).

The recommendations of Pegg (1990, 1991) which remain to be followed up include:

- Evaluating the potential for mineralization along strike of the Bluff Zone, No. 7 Vein, and Gold Bug and Boot Hill showings. These showings have returned high grade gold assay values over significant widths.
- Follow-up of all unexplained, previously obtained soil anomalies throughout the property, such as the anomalous gold values in soils west of the Boot Hill Showing;
- Prospecting and mapping of the relatively unexplored, steep slopes along the south side of the Iskut River (Waratah 4-6 claims).

The results of a significant 1988 drill program, which further tested the Bluff and Swamp zones and showings to the west, were not available for review or compilation by the author. This data will be of considerable importance and a high priority should be put on obtaining it before further field work is planned.

10.0

CONCLUSIONS

Although the results of 1996 program do not justify further work on the Cooper Zone, the Waratah/Jazz properties have potential to host an economic shear zone- or vein-type gold deposit because:

- The properties are located in the Iskut Gold camp and adjacent to the Snip mine;
- Favorable host rock lithologies and structure are present;
- Over twenty gold occurrences have been identified;
- Infrastructure is favorable.

11.0

RECOMMENDATIONS

Recommendations for further exploration on the Waratah/Jazz properties include:

Phase 1:

Data review and compilation, including 1988 drill results.

Linecutting/grid establishment over the Waratah claims, with baselines at 120° and crosslines every 100 meters.

Detailed VLF-EM and magnetic surveys over the grid area for the purpose of defining northwest-trending structures.

Detailed mapping and prospecting over the grid area.

Blast trenching over mineralized zones discovered by prospecting or geophysics.

Phase 2:

Contingent upon positive results from Phase 1, diamond drilling to test targets at depth.

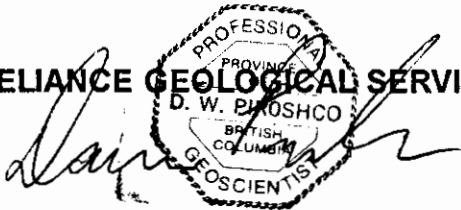
Further work is not recommended on the Cooper, No. 14, 15 or 16 zones.

CERTIFICATE

I, **DARWIN W. PIROSHCO**, of 3548 Point Grey Road, Vancouver, B.C., V6R 1A8, do hereby state that:

1. I am a graduate of Queen's University, Kingston, Ontario, with a Master of Science Degree in Geology, 1985.
2. I am a graduate of the University of Calgary, Calgary, Alberta, with a Bachelor of Science Degree in Geology, 1981.
3. I am registered as a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia.
4. I have actively pursued my career as a geologist for fifteen years in British Columbia and Ontario.
5. The information, opinions, and recommendations in this report are based on a 14 day field visit to the Waratah/Jazz property, and on a study of unpublished and published reports.
6. I have no interest, direct or indirect, in the subject claims, nor do I expect to receive any.

RELIANCE GEOLOGICAL SERVICES INC.



Darwin W. Piroshco, B.Sc., M.Sc., P.Geol.

Dated at North Vancouver, B.C., this 30th day of October, 1996.

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**APPENDIX A
ROCK SAMPLE DESCRIPTIONS**

WARATAH/ JAZZ PROJECT
ROCK SAMPLE DESCRIPTIONS

LAB SAMPLE	GRID LOCATION		UTM COORDINATES		SAMPLE TYPE	WIDTH (m)	HOST ROCK	DESCRIPTION OF MINERALIZATION
	EAST	NORTH	EASTING	NORTHING				
28251			381240	6282600	select	-	andesite	qtz, cc, pyr stringers
28252			381310	6282560	float	-	gossan	gal in fract
28253			381120	6282840	select	0.25	andesite	bull qtz veinlet
28254			380790	6282975	select	-	and. lapilli tuff	cb altered with diss py
28255			380820	6283030	select	-	andesite	cb altered with minor pyr
28256			380810	6283030	select	0.25	andesite	qtz, pyr, cpy vien
28257			381150	6282790	select	-	andesite	qz, cb vein
28258			381150	6282790	select	-	andesite	qz, cb vein
28259			382200	6282400	float	-	andesite	pyr blebs
28260			382200	6282400	select	-	andesite	qtz, pyr, cpy veinlet
28261			382200	6282400	chip	0.40	andesite	qtz, pyr, cpy vein
28262			382200	6282400	chip	0.95	andesite	qtz vein with trace pyr and cpy
28263			382150	6282270	float	-	andesite	sil with 1-2% cpy
28264	1000	1000			select	-	andesite	qtz, pyr veinlet
28265	1310	1000			select	-	andesite	pyr along fract
28266	1580	1000			float	-	andesite	qtz, cb veinlets with trace gal
28267	1310	1000			chip	2.00	andesite	pyr fracture fills
28268	1050	1125			select	-	andesite	qtz, pyr, cpy vein with 30% pyr
28269	1050	1125			select	-	andesite	massive pyr vein with 10% qtz-chl
28270	1050	1125			select	-	andesite	qtz vein with 25% pyr, <1%cpy
28271	1100	1125			select	-	andesite	qtz, carb stringers; 15% pyr
28272	1115	1125			select	-	andesite	qtz vein with 1% aspy, <1%py
28273	1150	1250			select	-	andesite	sil with diss pyr
28274	1150	1250			select	-	andesite	sil with diss pyr and cpy in fract
28275	1325	9025			select	-	andesite	qtz vein stockwork with trace cpy
28276	1325	9025			select	-	andesite	milky qtz vein with 1% cpy, mal
28277	BL 1325				select	-	andesite	cal veinlets with pyr
28278	BL 1325				chip	4.00	andesite	minor pyr, rusty hem on fract
28279	BL 1310				chip	1.60	andesite	qtz, pyr, rusty hem on fract
28280	1325	9025			chip	0.35	andesite	qtz vein with diss cpy
28281	1325	9025			chip	2.20	andesite	qtz vein with diss cpy
28282	1140	1175			select	-	andesite	sil, chl alteration with diss pyr
28283			380681	6282257	float	-	greywacke	brx vein with gal, sphal, pyr
28284			380681	6282257	float	-	andesite	brx vein with massive pyr, trc gal
28285	1110	1150			select	-	andesite	qtz vein with hem, and pyr blebs
28286			380876	6282110	select	-	andesite	1% diss cpy, mal
28287	1325	9025			select	-	andesite	sil with minor pyr, aspy, gal, sphal
28288	1325	9025			chip	1.50	andesite	sil with pyr on fract
28289	1325	9025			chip	1.50	andesite	sheared, rusty weathered
28290	1325	9025			chip	1.50	andesite	sheared, rusty weathered
28291			382800	6281155	float	-	-	qtz brx with 1% pyr
28292			382925	6281225	float	-	-	qtz brx with 25% pyr
28293			382460	6281115	select	-	andesite	qtz vein with minor sphal, gal
28294			381329	6284257	select	-	porphyry	25 cm qtz vein with 30% pyr
28295			381329	6284257	select	-	porphyry	25 cm qtz vein with 30% pyr
28296	1325	9025			chip	1.30	andesite	rusty weathered with spec hem, pyr
28297			382198	6282415	select	-	andesite	qtz vein with massive pyr, sphal
28298			382198	6282415	chip	0.50	andesite	qtz vein with massive pyr, sphal
28299			382198	6282415	select	-	andesite	qtz, pyr vein
28300			382198	6282415	select	-	andesite	qtz, pyr, cpy, mgt vein
28301			382024	6282328	float	-	andesite	milky qtz stockwork with cpy

WARATAH/JAZZ PROJECT
ROCK SAMPLE DESCRIPTIONS (con't)

LAB SAMPLE	GRID LOCATION		UTM COORDINATES		SAMPLE TYPE	WIDTH (m)	HOST ROCK	DESCRIPTION OF MINERALIZATION
	EAST	NORTH	EASTING	NORTHING				
28302			382024	6282328	select	-	andesite	milky qtz stockwork with cpy
28303			382050	6282823	float	-	andesite	qtz stockwork with cpy
28521	1075	1060			select	-	andesite	
28601	1075	1300			select	-	andesite	diss pyr
28602			380915	6282840	select	-	andesite	qtz veinlets with diss pyr
28603	1085	1440			select	-	andesite	diss pyr
28604	1330	1460			select	-	andesite	diss pyr
28605			380850	6282935	select	-	lapilli tuff	diss pyr
28606			381050	6282930	select	-	lapilli tuff	diss pyr
28607			381140	6283515	select	-	lapilli tuff	diss pyr
28608			381170	6283515	select	-	lapilli tuff	no visibe sulphides
28609			381225	6283515	select	-	lapilli tuff	diss pyr
28610			380900	6282000	select	-	andesite	qtz veinlets with diss pyr
28611			380845	6283020	select	-	andesite	diss pyr
28612			380780	6283070	select	-	andesite	qtz veinlets with diss pyr

ABBREVIATIONS

qtz	quartz	mgt	magnetite
cpy	chalcopyrite	cal	calcite
mal	malachite	chl	chlorite
pyr	pyrite	carb	carbonate
gal	galena	sil	silicification
sphal	sphalerite	brx	breccia
aspy	arsenopyrite	fracts	fractures
hem	hematite	diss	disseminated
spec hem	specular hematite		

**APPENDIX B
ASSAY CERTIFICATES**



INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS

iPL 96H0814

2036 Columbia Street
 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Reliance Geological Services Ltd

Out: Sep 06, 1996 Project: J914
 In: Aug 29, 1996 Shipper: Darwin Piroshco
 PO#: Shipment: ID=C026903
 Msg: Au(FA/AAS 30g)/mt ICP(AQR)30

8 Samples

8= Rock 0= Soil 0= Core 0=RC Ct 0= Pulp 0=Other
 Raw Storage: 03Mon/Dis -- -- -- --
 Pulp Storage: 12Mon/Dis -- -- -- --

[081413:28:25:69090796]
 Mon=Month Dis=Discard
 Rtn=Return Arc=Archive

Document Distribution

1 Reliance Geological Services Ltd	EN RT CC IN FX
1127 West 15th Street	1 2 2 2 1
North Vancouver	DL 3D 5D BT BL
BC V7P 1M7	0 0 0 1 0
ATT: Darwin Piroshco	Ph:604/984-3663
	Fx:604/988-4653

Analytical Summary

##	Code	Met	Title	Limit	Limit	Units	Description	Element	##
		hod		Low	High				
01	368PFA/AAS	Au	See Data	Pg		g/mt	Au FA/AAS finish 30g	Gold	01
02	364PFAGrav	Au	See Data	Pg		g/mt	Au FA/Grav in g/mt	Gold	02
03	721P	ICP	Ag	0.1	100	ppm	Ag ICP	Silver	03
04	711P	ICP	Cu	1	20000	ppm	Cu ICP	Copper	04
05	714P	ICP	Pb	2	20000	ppm	Pb ICP	Lead	05
06	730P	ICP	Zn	1	20000	ppm	Zn ICP	Zinc	06
07	703P	ICP	As	5	9999	ppm	As ICP 5 ppm	Arsenic	07
08	702P	ICP	Sb	5	9999	ppm	Sb ICP	Antimony	08
09	732P	ICP	Hg	3	9999	ppm	Hg ICP	Mercury	09
10	717P	ICP	Mo	1	9999	ppm	Mo ICP	Molydenum	10
11	747P	ICP	Tl	10	999	ppm	Tl ICP 10 ppm (Incomplete Digest	Thallium	11
12	705P	ICP	Bi	2	999	ppm	Bi ICP	Bismuth	12
13	707P	ICP	Cd	0.1	100	ppm	Cd ICP	Cadmium	13
14	710P	ICP	Co	1	999	ppm	Co ICP	Cobalt	14
15	718P	ICP	Ni	1	999	ppm	Ni ICP	Nickel	15
16	704P	ICP	Ba	2	9999	ppm	Ba ICP (Incomplete Digest	Barium	16
17	727P	ICP	W	5	999	ppm	W ICP (Incomplete Digest	Tungsten	17
18	709P	ICP	Cr	1	9999	ppm	Cr ICP (Incomplete Digest	Chromium	18
19	729P	ICP	V	2	999	ppm	V ICP	Vanadium	19
20	716P	ICP	Mn	1	9999	ppm	Mn ICP	Manganese	20
21	713P	ICP	La	2	9999	ppm	La ICP (Incomplete Digest	Lanthanum	21
22	723P	ICP	Sr	1	9999	ppm	Sr ICP (Incomplete Digest	Strontium	22
23	731P	ICP	Zr	1	999	ppm	Zr ICP	Zirconium	23
24	736P	ICP	Sc	1	99	ppm	Sc ICP	Scandium	24
25	726P	ICP	Ti	0.01	1.00	%	Ti ICP (Incomplete Digest	Titanium	25
26	701P	ICP	Al	0.01	9.99	%	Al ICP (Incomplete Digest	Aluminum	26
27	708P	ICP	Ca	0.01	9.99	%	Ca ICP (Incomplete Digest	Calcium	27
28	712P	ICP	Fe	0.01	9.99	%	Fe ICP	Iron	28
29	715P	ICP	Mg	0.01	9.99	%	Mg ICP (Incomplete Digest	Magnesium	29
30	720P	ICP	K	0.01	9.99	%	K ICP (Incomplete Digest	Potassium	30
31	722P	ICP	Na	0.01	5.00	%	Na ICP (Incomplete Digest	Sodium	31
32	719P	ICP	P	0.01	5.00	%	P ICP	Phosphorus	32



CE...FI...FE...ALS...
iPL 96H0694

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Client: Reliance Geological Services Ltd
Project: J914 28 Rock

iPL: 96H0694

Out: Aug 09, 1996
In: Aug 06, 1996

Page 1 of 1
[069419:08:00:69080996]

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	Na %	P %
28501	0.02	0.13
28502	0.01	0.08
28503	0.01	0.09
28504	0.01	0.10
28251	0.03	0.11
28252	0.02	0.06
28253	0.07	0.10
28254	0.02	0.12
28255	0.02	0.10
28256	0.02	0.04
28257	0.01	0.02
28258	0.01	0.02
28259	0.01	0.04
28260	0.01	0.05
28261	0.01	0.06
28262	0.02	0.03
28263	0.03	0.13
28264	0.01	0.05
28265	0.01	0.19
28266	0.02	0.13
28267	0.01	0.20
28268	0.01	0.03
28269	0.01	0.01
28270	0.01	0.03
28271	0.01	0.12
28272	0.01	0.02
28273	0.03	0.11
28274	0.03	0.11

Min Limit 0.01 0.01
Max Reported* 5.00 5.00
Method ICP ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate X Max=No Estimate
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS

iPL 96H0715

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Client: Reliance Geological Services Ltd
Project: J914 38 Rock

iPL: 96H0715

Out: Aug 17, 1996
In: Aug 12, 1996

Page 1 of 1
[071516:06:58:69081796]

Section 1 of 2
Certified BC Assayer: David Chiu

Sample Name	Au g/mt	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %
28275	0.15	3.7	7098	5	48	<	<	<	2	<	4	0.4	24	32	65	<	110	37	1431	18	44	1	4	0.01	0.88	1.54	2.97	0.58
28276	<	0.2	568	3	7	5	<	<	2	<	<	0.2	3	8	133	<	221	9	726	7	19	1	1	<	0.21	0.68	0.47	0.02
28277	0.02	<	190	15	71	33	<	<	3	<	<	<	22	32	86	<	25	40	1912	8	125	2	3	<	2.11	4.42	3.63	1.58
28278	0.01	<	98	16	144	55	<	<	1	<	<	<	25	57	83	<	56	101	2181	15	63	4	7	0.01	3.62	1.71	5.99	2.84
28279	0.40	2.2	192	241	1152	107	5	<	2	<	<	13.2	26	42	106	<	46	92	4478	13	60	7	7	0.01	3.26	1.04	7.19	2.07
28280	0.03	0.2	206	5	14	5	5	<	2	<	<	0.4	3	10	84	<	306	6	418	3	9	2	<	<	0.15	0.05	0.63	0.04
28281	0.01	2.0	7009	8	44	8	<	<	3	<	9	0.5	30	26	320	<	128	49	1245	10	58	1	4	0.02	0.92	1.33	2.72	0.49
28282	0.01	0.1	98	7	82	20	<	<	2	<	<	0.1	15	3	264	<	18	18	981	9	45	2	1	0.10	1.40	1.59	2.18	0.73
28283	0.58	53.3	211	2.5	6.8	906	43	9	5	<	<	0.9m	19	34	<	<	75	17	2476	<	94	1	1	<	0.39	2.37	6.03	0.53
28284	0.60	11.6	639	3168	4.1	314	<	<	5	<	<	0.6m	32	58	12	<	101	26	706	2	34	4	2	<	0.47	0.44	18	0.32
28505	0.02	<	113	129	763	51	<	<	2	<	<	9.7	12	3	32	<	15	43	1610	9	64	2	2	<	2.32	2.45	4.26	1.36
28506	0.04	<	142	114	397	51	<	<	2	<	<	3.5	13	6	40	<	14	46	2514	11	35	3	2	0.01	2.73	1.22	4.90	1.62
28507	0.33	2.5	498	135	1251	2096	<	<	2	<	<	12.8	16	8	37	<	31	85	1539	4	18	2	3	0.01	3.91	0.61	9.29	1.87
28508	0.04	2.7	454	76	1525	162	<	<	4	<	<	26.5	16	10	42	<	18	108	1878	4	47	4	4	0.01	3.83	1.25	8.97	1.92
28509	0.03	0.4	104	69	518	170	<	<	3	<	<	3.9	20	8	65	<	9	93	2497	8	156	3	3	0.01	3.32	3.95	5.61	2.00
28510	0.02	0.2	80	83	415	68	5	<	2	<	<	2.2	19	9	51	<	10	123	2474	17	27	6	5	0.01	3.55	0.91	6.13	2.23
28511	0.02	0.6	125	63	621	90	7	<	3	<	<	5.1	18	12	202	<	17	127	3385	24	27	6	4	0.01	3.91	0.86	6.75	2.24
28512	10.30	7.07	8.3	410	200	888	1461	<	3	<	<	4.4	15	9	39	<	28	85	2094	11	13	12	3	0.01	3.61	0.41	8.62	1.83
28513	2.07	2.00	6.6	750	163	1068	207	<	5	<	<	7.7	16	10	28	<	23	77	1487	9	12	7	3	0.01	3.27	0.41	9.17	1.62
28514	2.93	2.96	7.2	729	74	644	79	<	3	<	<	7.6	17	10	15	<	29	78	777	4	11	3	2	0.01	2.85	0.40	9.69	1.52
28515	2.83	2.80	8.6	1323	120	259	3351	<	6	<	<	<	26	7	10	<	20	50	489	4	9	4	2	0.01	2.14	0.33	9.53	0.93
28516	1.47	2.40	10.8	578	187	280	5554	11	4	<	<	<	24	7	22	<	23	72	1070	7	16	4	2	0.01	2.52	0.56	7.80	1.51
28517	0.15	0.6	182	48	384	845	<	<	3	<	<	1.7	23	8	60	<	13	115	1672	11	17	3	5	0.01	3.31	0.49	6.07	2.18
28518	0.01	<	128	25	240	55	<	<	2	<	<	2.2	18	5	103	<	21	79	1899	11	18	3	3	0.01	2.73	0.48	4.84	1.66
28519	0.01	<	109	15	115	44	<	<	2	<	<	<	19	6	64	<	9	93	1660	12	46	3	5	0.02	2.66	0.97	5.01	1.64
28520	0.03	0.3	90	17	118	63	<	<	2	<	<	<	17	7	52	<	14	113	1224	10	33	3	5	0.03	2.90	0.75	5.47	1.78
28521	0.02	28.1	2.8	7	103	14	6	<	3	<	3	0.2	8	6	42	<	184	16	900	3	7	5	1	<	0.78	0.09	4.52	0.47
28522	0.01	<	200	10	127	16	<	<	3	<	<	<	14	4	66	<	17	24	1176	9	53	2	2	<	1.77	1.54	3.58	1.25
28523	0.61	0.3	97	13	36	52	<	<	4	<	<	0.3	19	4	49	<	43	14	1178	13	10	2	2	<	0.93	0.37	2.04	0.24
28524	0.01	<	77	13	152	33	<	<	2	<	<	<	10	4	95	<	13	22	1726	6	38	1	2	<	1.58	1.71	3.79	0.95
28525	0.24	0.6	215	13	236	40	<	<	2	<	<	<	15	4	42	<	45	35	1255	5	42	2	2	<	1.95	1.38	5.13	1.19
28526	0.06	<	56	33	93	36	<	<	5	<	<	0.5	15	4	67	<	44	14	2334	7	98	2	2	<	0.84	4.11	3.35	0.45
28527	0.02	<	128	7	156	37	<	<	2	<	<	0.2	14	4	90	<	29	19	2111	5	52	2	2	<	1.16	2.41	3.72	0.90
28528	0.02	<	102	3	144	11	<	<	2	<	<	<	13	4	79	<	22	21	1745	10	58	1	2	<	1.22	2.06	3.56	0.84
28529	0.04	<	156	9	184	25	<	<	1	<	<	0.1	14	5	80	<	53	26	1868	8	43	2	2	<	1.59	1.61	4.33	0.95
28530	2.39	2.17	2.5	443	17	147	53	<	4	<	<	<	16	4	34	<	31	32	1160	5	37	2	2	<	1.66	1.23	6.33	1.03
28531	0.07	<	195	21	322	36	5	<	4	<	<	0.2	14	6	91	<	53	40	1657	8	29	3	3	<	2.25	0.97	4.94	1.34
28532	0.04	<	130	32	257	37	<	<	3	<	<	0.8	15	6	63	<	41	28	2089	6	78	2	2	<	1.62	1.26	4.30	1.02

Min Limit 0.01 0.07 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01

Max Reported* 1000.00 1000.00 99.9 20000 20000 20000 9999 9999 9999 9999 999 999 999 9999 999 9999 999 9999 9999 9999 9999 9999 9999 99 1.00 9.99 9.99 9.99 9.99

Method FA/AAS FAGrav ICP

---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS
iPL 96H0715

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Client: Reliance Geological Services Ltd
Project: J914 3B Rock

iPL: 96H0715

Out: Aug 17, 1996
In: Aug 12, 1996

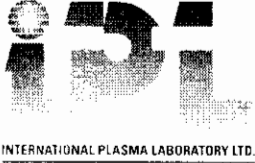
Page 1 of 1
[071516:07:10:69081796]

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	K %	Na %	P %
28275	0.24	0.03	0.17
28276	0.14	0.03	0.05
28277	0.35	0.01	0.14
28278	0.34	0.01	0.17
28279	0.33	0.01	0.26
28280	0.05	0.02	0.01
28281	0.35	0.03	0.17
28282	0.48	0.01	0.13
28283	0.11	0.01	0.03
28284	0.16	0.01	0.07
28505	0.32	0.02	0.14
28506	0.29	0.01	0.14
28507	0.28	0.01	0.14
28508	0.27	0.01	0.17
28509	0.30	0.02	0.16
28510	0.22	0.02	0.16
28511	0.30	0.02	0.17
28512	0.32	0.01	0.14
28513	0.31	0.01	0.15
28514	0.34	0.01	0.15
28515	0.31	0.01	0.16
28516	0.29	0.01	0.16
28517	0.21	0.03	0.16
28518	0.27	0.02	0.15
28519	0.25	0.03	0.16
28520	0.23	0.03	0.14
28521	0.14	0.03	0.12
28522	0.28	0.02	0.11
28523	0.36	0.01	0.12
28524	0.28	0.01	0.12
28525	0.29	0.02	0.12
28526	0.33	0.02	0.12
28527	0.31	0.02	0.13
28528	0.36	0.03	0.13
28529	0.39	0.02	0.14
28530	0.29	0.02	0.13
28531	0.33	0.02	0.14
28532	0.30	0.02	0.13

Min Limit 0.01 0.01 0.01
Max Reported* 9.99 5.00 5.00
Method ICP ICP ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



INTERNATIONAL PLASMA LABORATORY LTD.

CLIFICATE OF ANALYSIS
iPL 96H0779

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Client: Reliance Geological Services Ltd
Project: J914 46 Rock

iPL: 96H0779

Out: Aug 27, 1996
In: Aug 21, 1996

Page 1 of 2
[077914:21:46:69082896]

Section 1 of 2
Certified BC Assayer: David Chiu

Table with columns: Sample Name, Au (g/mt), Ag (ppm), Cu (ppm), Pb (ppm), Zn (ppm), As (ppm), Sb (ppm), Hg (ppm), Mo (ppm), Tl (ppm), Bi (ppm), Cd (ppm), Co (ppm), Ni (ppm), Ba (ppm), W (ppm), Cr (ppm), V (ppm), Mn (ppm), La (ppm), Sr (ppm), Zr (ppm), Sc (ppm), Ti (%), Al (%), Ca (%), Fe (%), Mg (%). Rows include sample numbers 28285 through 28605.

Min Limit 0.01 0.07 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01
Max Reported* 1000.00 1000.00 99.9 20000 20000 20000 9999 9999 9999 9999 999 999 999 99.9 999 999 9999 999 9999 999 9999 9999 999 99 1.00 9.99 9.99 9.99 9.99
Method FA/AAS FAGrav ICP
---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=PuIp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS

iPL 96H0779

2036 Columbia St.
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Client: Reliance Geological Services Ltd
Project: J914 46 Rock

iPL: 96H0779

Out: Aug 27, 1996
In: Aug 21, 1996

Page 1 of 2
[077914:21:58:69082896]

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	K %	Na %	P %
28285	0.04	0.01	0.01
28286	0.03	0.02	0.04
28287	0.21	0.01	0.20
28288	0.18	0.01	0.23
28289	0.28	0.01	0.22
28290	0.31	0.01	0.22
28291	0.16	0.01	0.09
28292	0.21	0.01	0.11
28293	0.13	0.01	0.06
28294	0.04	0.01	0.01
28295	0.01	0.01	<
28533	0.26	0.02	0.12
28534	0.29	0.01	0.11
28535	0.28	0.02	0.11
28536	0.32	0.02	0.11
28537	0.36	0.02	0.12
28538	0.36	0.02	0.11
28539	0.29	0.02	0.11
28540	0.33	0.02	0.12
28541	0.30	0.02	0.12
28542	0.19	0.03	0.16
28543	0.25	0.02	0.18
28544	0.30	0.02	0.17
28545	0.26	0.03	0.18
28546	0.34	0.02	0.16
28547	0.29	0.02	0.16
28548	0.30	0.02	0.18
28549	0.25	0.03	0.18
28550	0.21	0.03	0.17
28551	0.23	0.03	0.18
28552	0.27	0.02	0.13
28553	0.31	0.02	0.14
28554	0.32	0.02	0.13
28555	0.29	0.02	0.11
28601	0.15	0.06	0.16
28602	0.22	0.03	0.14
28603	0.24	0.03	0.17
28604	0.21	0.03	0.14
28605	0.24	0.02	0.20

Min Limit 0.01 0.01 0.01
Max Reported* 9.99 5.00 5.00
Method ICP ICP ICP

--No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 % = Estimate % Max=No Estimate
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS
iPL 96H0779

36 Columbia Str
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Client: Reliance Geological Services Ltd
Project: J914 46 Rock

iPL: 96H0779

Out: Aug 27, 1996
In: Aug 21, 1996

Page 2 of 2
[077914:22:07:69082896]

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	K %	Na %	P %
28606	0.15	0.02	0.15
28607	0.21	0.02	0.11
28608	0.22	0.04	0.11
28609	0.21	0.03	0.15
28610	0.27	0.02	0.18
28611	0.11	0.03	0.15
28612	0.15	0.02	0.15

Min Limit 0.01 0.01 0.01
Max Reported* 9.99 5.00 5.00
Method ICP ICP ICP

---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



CERTIFICATE OF ANALYSIS
iPL 96H0814

6 Co Stre
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Client: Reliance Geological Services Ltd
Project: J914 8 Rock

iPL: 96H0814

Out: Sep 06, 1996
In: Aug 29, 1996

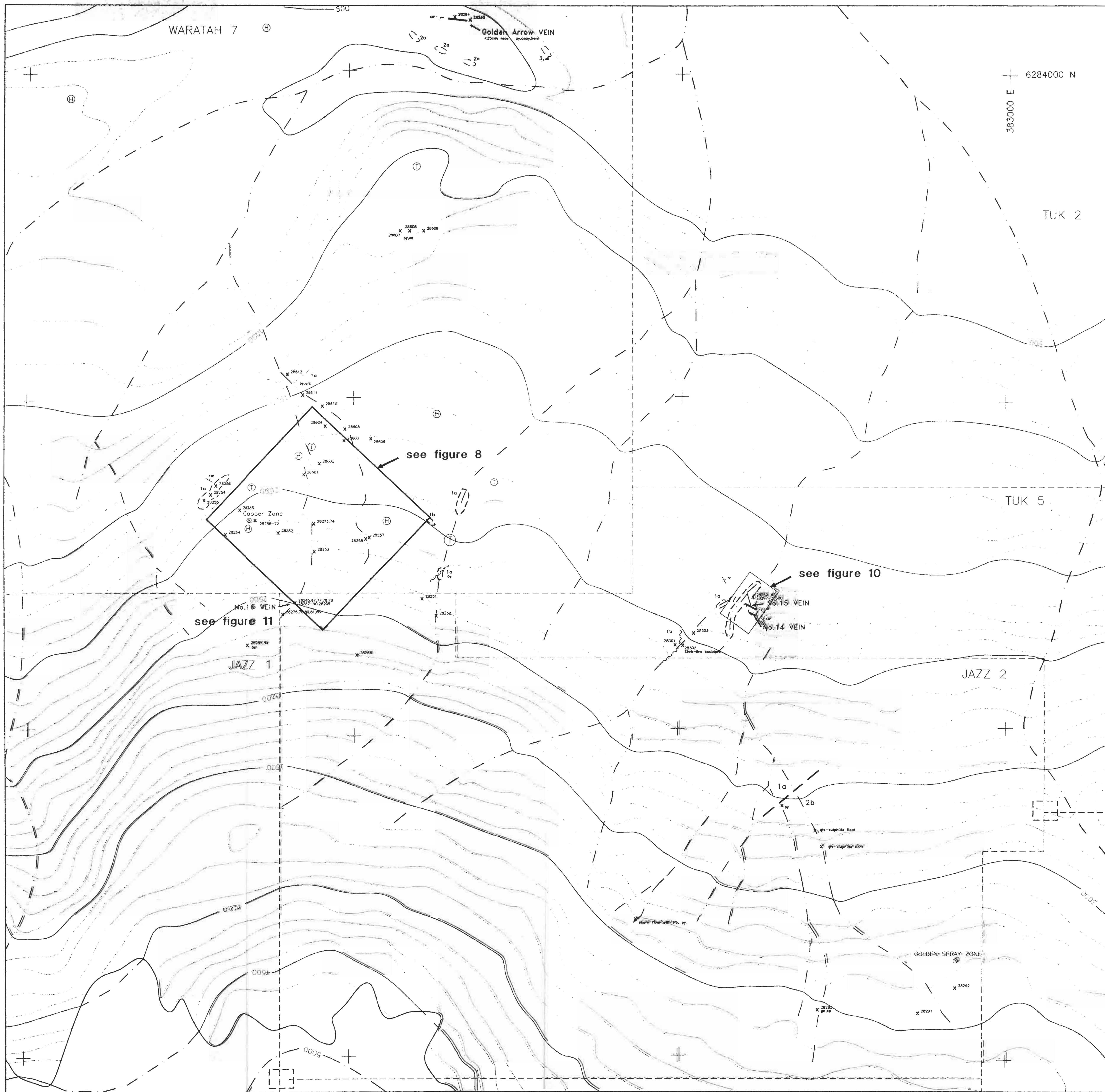
Page 1 of 1
[081413:28:35:69090796]

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	K %	Na %	P %
28296	R 0.24	0.03	0.19
28297	R 0.02	0.03	0.01
28298	R 0.12	0.03	0.04
28299	R 0.06	0.03	0.01
28300	R 0.04	0.02	0.06
28301	R 0.25	0.05	0.10
28302	R 0.09	0.05	0.04
28303	R 0.17	0.05	0.06

Min Limit 0.01 0.01 0.01
Max Reported* 9.99 5.00 5.00
Method ICP ICP ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



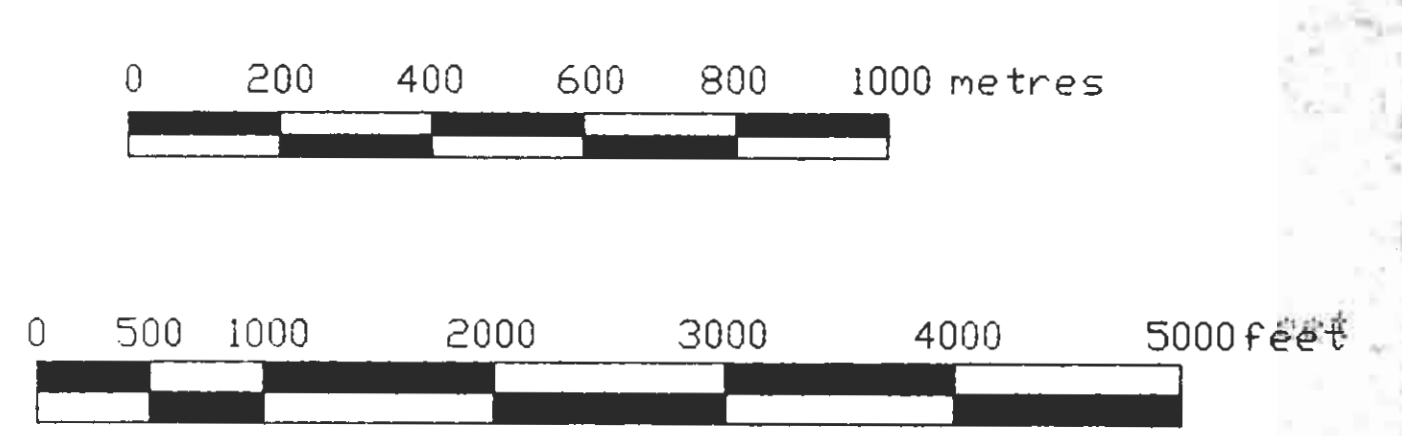
LEGEND

- 3 Monzonite
- 2 Clastic Sediments
2a : argillite
2b : greywacke
- 1 Andesite
1a : massive
1b : breccia
1c : lapilli tuff
- py pyrite
cp chalcopyrite
sp sphalerite
gn galena
mal malachite
mg magnetite
Mn Manganese
aspy arsenopyrite
mo molybdenite
cb carbonate
cc calcite
qly quartz
brx breccia
- outcrop
assumed contact
fault
quartz vein
strike & dip of vein
sample location / subcrop
helpaid
loc-in
LCP

Contour Interval = 100'

LAB	SAMPLE	WIDTH	Gold
SAMPLE	TYPE	m	g/mt
28251	select	17	ppb
28252	float	-	28 ppb
28253	select	0.25	10 ppb
28254	select	-	384 ppb
28255	select	-	11 ppb
28256	select	0.25	25 ppb
28257	select	-	8 ppb
28258	select	-	3 ppb
28259	float	-	12.87
28260	select	-	20.27
28261	chip	0.40	15.01
28262	chip	0.95	2.11
28263	float	-	25 ppb
28264	select	-	472 ppb
28265	select	-	688 ppb
28266	float	-	8 ppb
28267	chip	2.00	832 ppb
28268	select	-	22.71
28269	select	-	57.33
28270	select	-	45.83
28271	select	-	3.07
28272	select	-	122.87
28273	select	-	58 ppb
28274	select	-	55 ppb
28275	select	-	0.15
28276	select	-	<0.1
28277	select	-	0.02
28278	chip	4.00	0.01
28279	chip	1.80	0.40
28280	chip	0.35	0.03
28281	chip	2.20	0.01
28282	float	-	0.01
28283	float	-	0.58

LAB	SAMPLE	WIDTH	Gold
SAMPLE	TYPE	m	g/mt
28284	float	-	0.80
28285	select	-	48.45
28286	select	-	0.02
28287	select	-	2.90
28288	chip	1.50	1.77
28289	chip	1.50	0.50
28290	chip	1.50	3.75
28291	float	-	1.33
28292	float	-	0.05
28293	select	-	0.05
28294	select	-	100.63
28295	select	-	80.70
28296	chip	1.30	0.30
28297	select	-	17.70
28298	chip	0.50	18.90
28299	select	-	27.90
28300	select	-	19.30
28301	float	-	0.04
28302	select	-	0.02
28303	float	-	0.01
28321	select	-	0.01
28601	select	-	0.05
28602	select	-	0.12
28603	select	-	<0.01
28604	select	-	<0.01
28605	select	-	0.03
28606	select	-	0.01
28607	select	-	0.04
28608	select	-	0.02
28609	select	-	0.05
28610	select	-	0.03
28611	select	-	0.43
28612	select	-	0.03



Scale 1:5000
GEOLOGICAL SURVEY BRANCH
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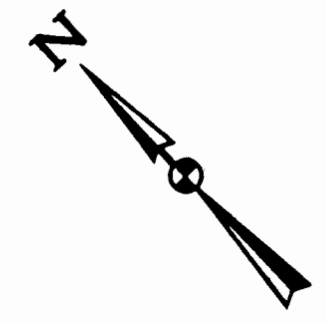
MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD CORP.

Waratah/Jazz Property

Geology, Rock Sample Locations and Gold Assay Results

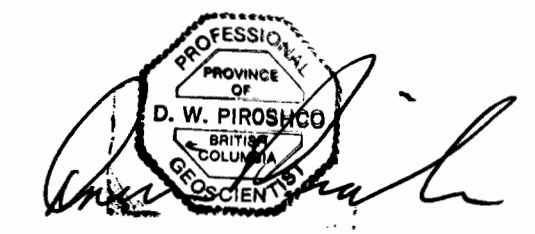
SCALE: as shown	NTS: 104B/10W,11E	Drawn By: JG
DATE: Sept 96	Geologist: DP	Fig: 7

Reliance Geological Services Inc.

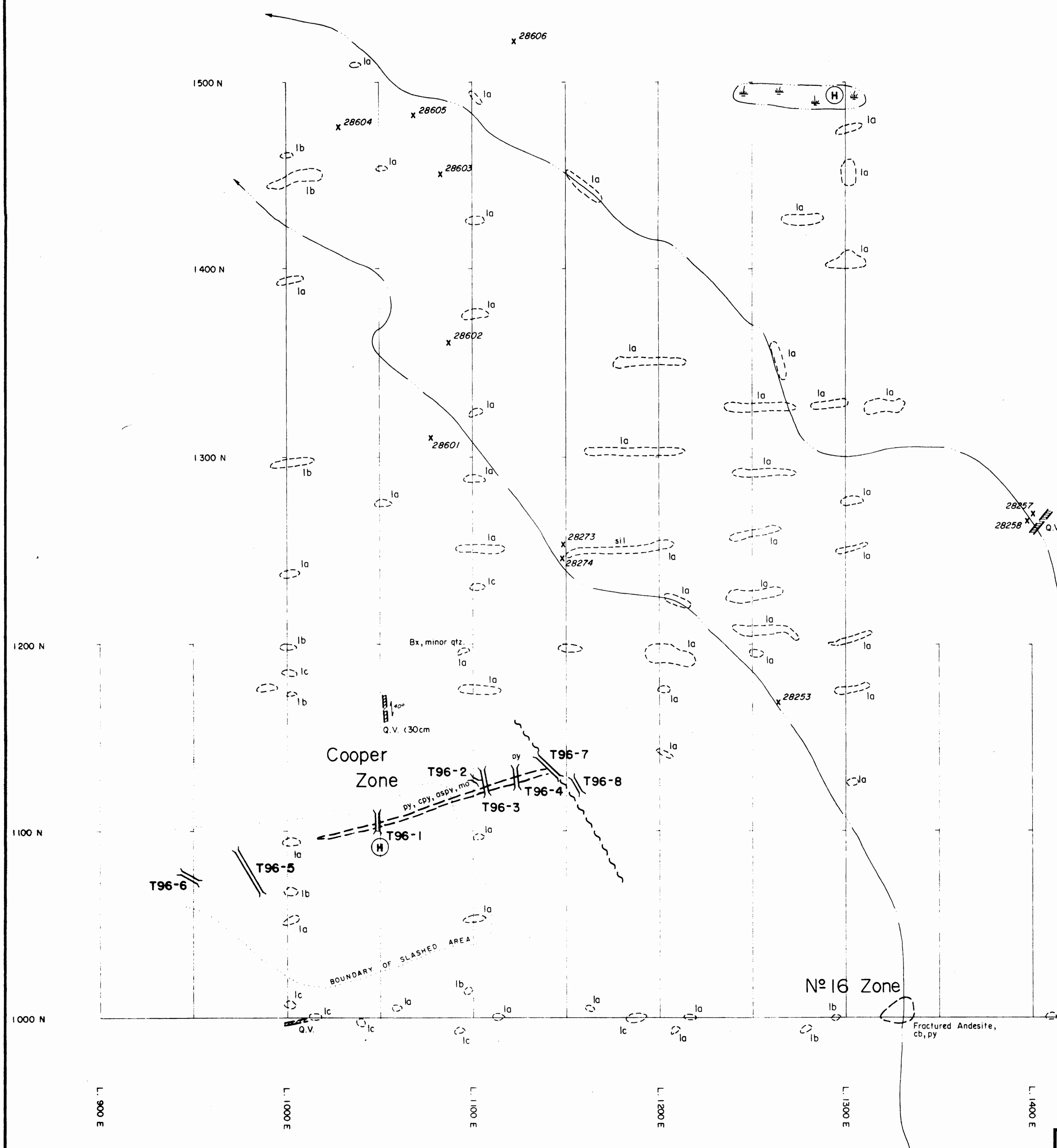
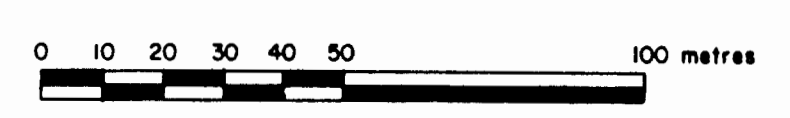


LEGEND

- Andesite
 - (a) massive
 - (b) breccia
 - (c) lapilli tuff
- py pyrite
- cpy chalcopyrite
- aspy arsenopyrite
- ga galena
- sil silicification
- ca carbonate
- creek
- outcrop
- mineralized zone
- fault
- quartz vein
- trench
- x sample location



Sample No.	Sample Type	Width (m)	Au (g/mt)
28253	select	0.25	10 ppb
28257	select	-	6 ppb
28258	select	-	3 ppb
28601	select	0	0.05
28602	select	-	0.12
28603	select	-	<0.01
28604	select	-	<0.01
28605	select	-	0.03
28606	select	-	0.01



**GEOLOGICAL SURVEY BRANCH
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MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD CORP.
Waratah / Jazz Project
COOPER ZONE
Detailed Grid Geology,
Rock Sample Locations &
Gold Assay Results

Scale	as shown	N.T.S.	104B/10W	Drawn by	P.N., D.P.
Date	Sept. 1996	Geologist	D.P.	Figure	

Reliance Geological Services Inc.



T96-5

Sample No.	From (m)	To (m)	Au (g/m)
28522	17.00	18.00	0.01
28523	9.00	10.00	0.61
28524	8.00	7.00	0.01
28525	3.00	4.00	0.24
28526	8.00	7.00	0.08
28527	5.00	6.00	0.02
28528	4.00	5.00	0.02
28529	3.00	4.00	0.04
28530	2.00	3.00	2.28
28531	1.00	2.00	0.07
28532	0.00	1.00	0.04
28533	7.00	8.00	<0.01
28535	8.00	9.00	0.01
28534	10.00	11.00	0.11
28535	11.00	12.00	0.15
28285	select	-	48.45
28521	select	-	0.01

T96-6

Sample No.	From (m)	To (m)	Au (g/m)
28533	0.00	1.00	0.16
28534	1.00	2.00	2.33
28535	2.00	3.00	0.03
28536	3.00	4.00	0.58
28537	4.00	5.00	0.09
28538	5.00	6.00	0.04
28539	6.00	7.00	0.18
28540	7.00	8.00	0.05
28541	8.00	9.00	0.11

T96-1

SAMPLE No.	INTERVAL (m)	Au (g/m)
28501	0.00 1.00	196 ppb
28502	1.00 2.00	14.73
28503	2.00 3.00	14.00
28504	3.00 4.00	8.01
28505	4.00 5.00	0.02
28506	5.00 6.00	0.04
28268	select	22.71
28269	select	57.33
28270	select	45.83

T96-2

Sample No.	Interval	Au (g/m)
28507	0.00 1.00	0.33
28508	1.00 2.00	0.04
28509	2.00 3.00	0.03
28271	select	3.07

T96-3

Sample No.	From (m)	To (m)	Au (g/m)
28510	0.00	1.00	0.03
28511	1.00	2.00	0.02
28512	2.00	3.00	10.30
28513	3.00	4.00	2.07
28514	4.00	5.00	2.93
28515	5.00	6.00	2.53
28516	6.00	7.00	1.47
28517	7.00	8.00	0.15
28518	8.00	9.00	0.01
28519	9.00	10.00	0.01
28520	10.00	11.00	0.03
28272	select	-	122.67

T96-4

Sample No.	From (m)	To (m)	Au (g/m)
28542	0.00	1.00	0.01
28543	1.00	2.00	0.17
28544	2.00	3.00	1.17
28545	3.00	4.00	0.12
28546	4.00	5.00	1.91
28547	5.00	6.00	0.41
28548	6.00	7.00	2.74
28549	7.00	8.00	0.42
28550	8.00	9.00	0.01
28551	9.00	9.50	<0.01

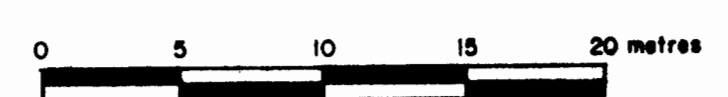
- LEGEND**
- la massive andesite
 - outcrop
 - fracture zone / fault
 - - - - - trench
 - x rock sample
 - /// area of sulphide mineralization
 - py pyrite
 - cpy chalcopyrite
 - cb carbonate
 - mgt magnetite
 - mo molybdenite
 - Mn manganese
 - sil silicification
 - stx stockwork

NOTE: all trench samples are 1m x 1m panel samples

GEOLOGICAL SURVEY BRANCH
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T96-8 (did not reach bedrock)



MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD CORP.
Waratah / Jazz Project

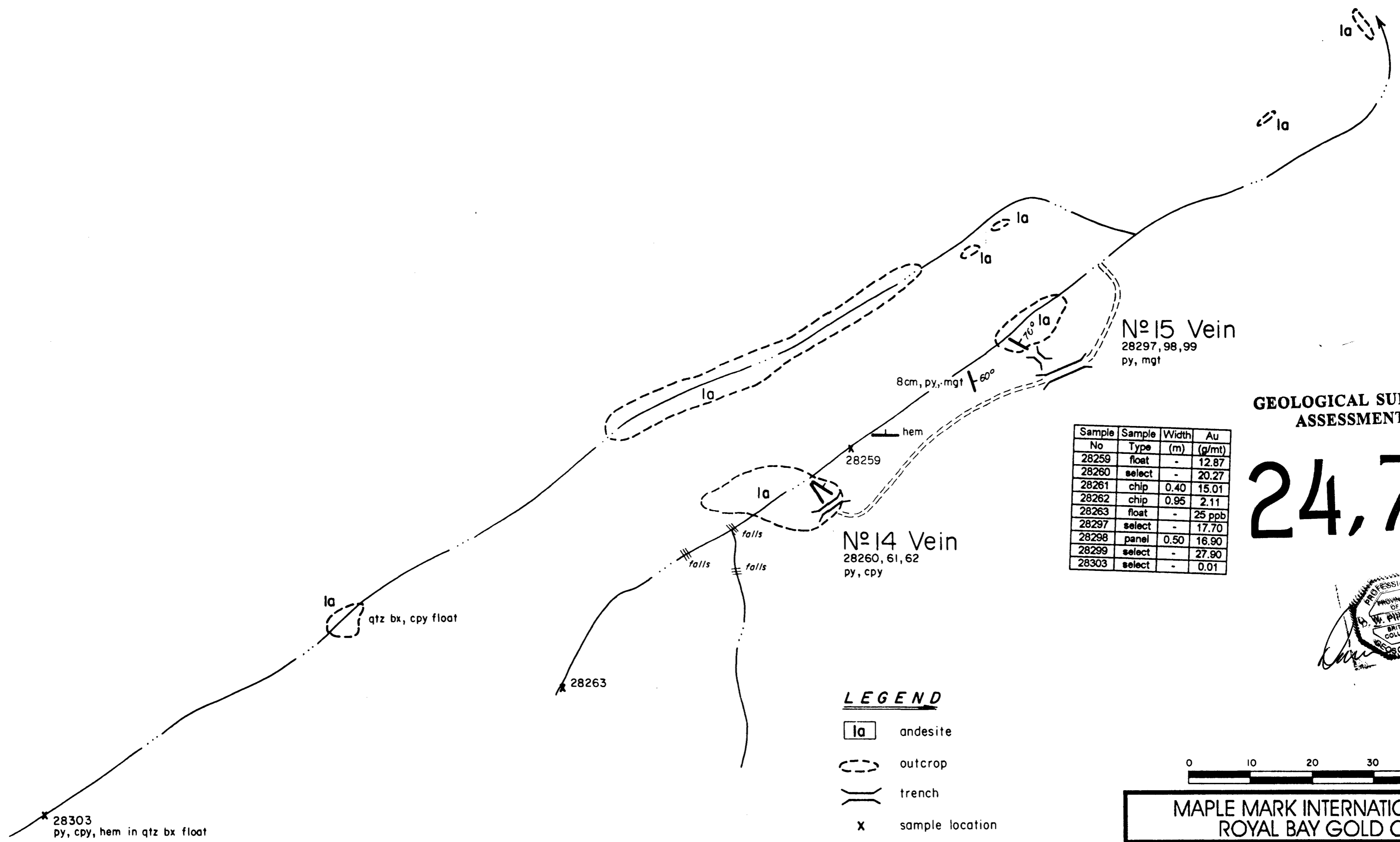
COOPER ZONE
Trench and Rock Sample
Locations & Gold Assay Results

Scale as shown N.T.S. 1048/10W Drawn by P.N., D.P.
Date Sept. 1996 Geologist D.P. Figure 9
Reliance Geological Services Inc.



382 198 E

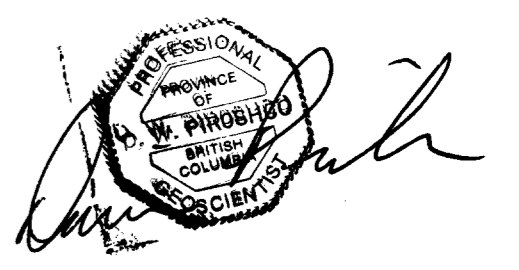
6 282 415 N



**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

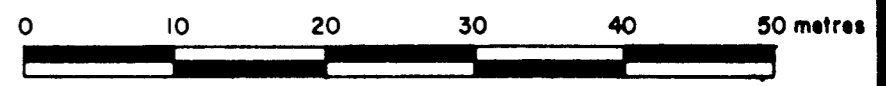
Sample No	Sample Type	Width (m)	Au (g/mt)
28259	float	-	12.87
28260	select	-	20.27
28261	chip	0.40	15.01
28262	chip	0.95	2.11
28263	float	-	25 ppb
28297	select	-	17.70
28298	panel	0.50	16.90
28299	select	-	27.90
28303	select	-	0.01

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LEGEND

- la andesite
- outcrop
- trench
- x sample location
- quartz vein with dip
- py pyrite
- mag magnetite
- cpy chalcopyrite
- hem hematite



MAPLE MARK INTERNATIONAL INC. ROYAL BAY GOLD CORP.			
Waratah / Jazz Project			
NO. 14 & 15 VEINS Sample Locations & Gold Assay Results			
Scale	as shown	N.T.S.	104B/10W
Date	Sept. 1996	Geologist	D.P.
Drawn by	P.N., D.P.	Figure	10
Reliance Geological Services Inc.			

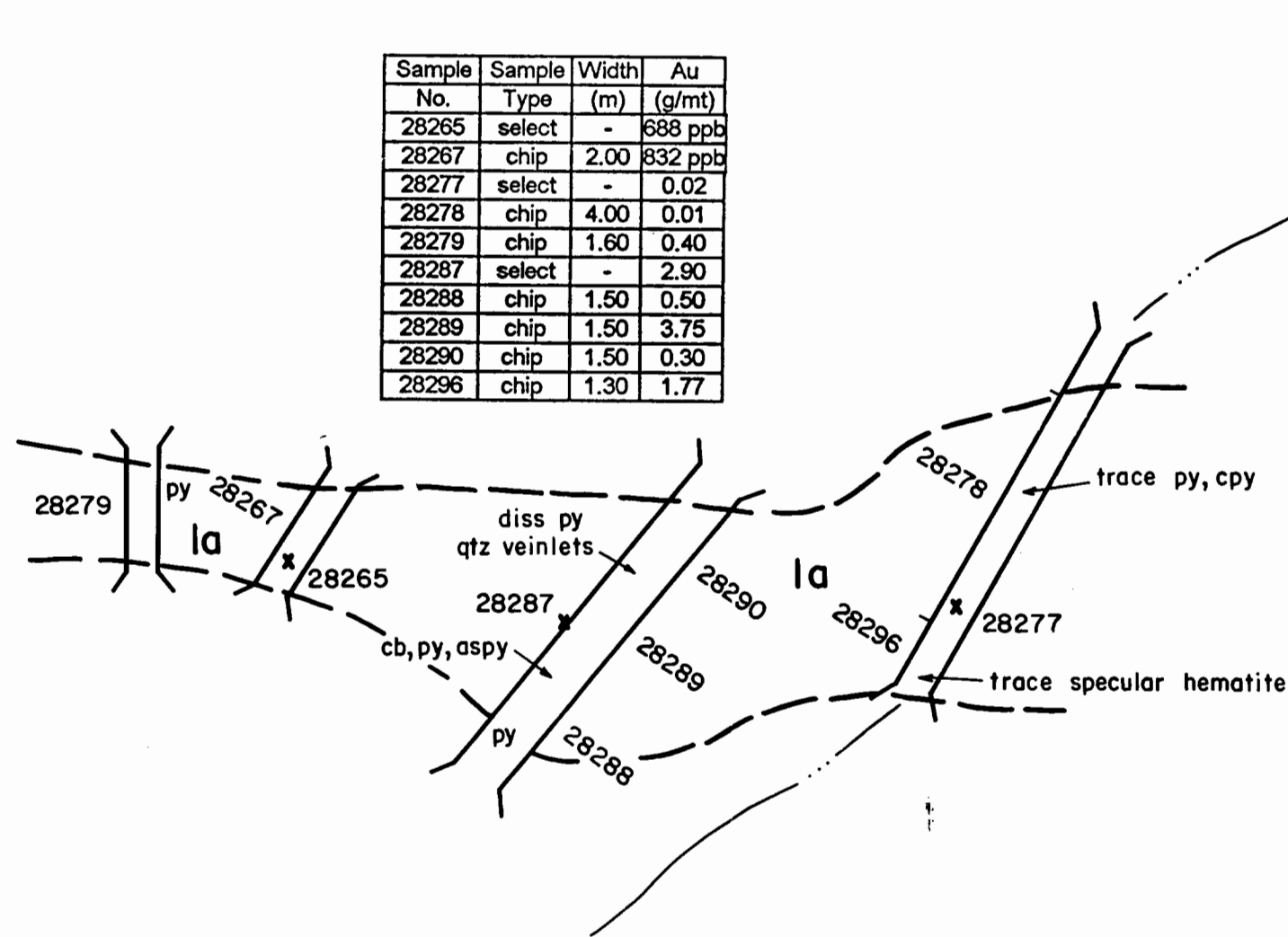
28303
py, cpy, hem in qtz bx float

28263

No. 14 Vein
28260, 61, 62
py, cpy

No. 15 Vein
28297, 98, 99
py, mag

Sample No.	Sample Type	Width (m)	Au (g/mt)
28265	select	-	688 ppb
28267	chip	2.00	832 ppb
28277	select	-	0.02
28278	chip	4.00	0.01
28279	chip	1.60	0.40
28287	select	-	2.90
28288	chip	1.50	0.50
28289	chip	1.50	3.75
28290	chip	1.50	0.30
28296	chip	1.30	1.77



LEGEND

- la massive andesite
- outline of mineralization
- trench
- x** select sample location
- py pyrite
- cpy calcopyrite
- aspy arsenopyrite
- mag manganese

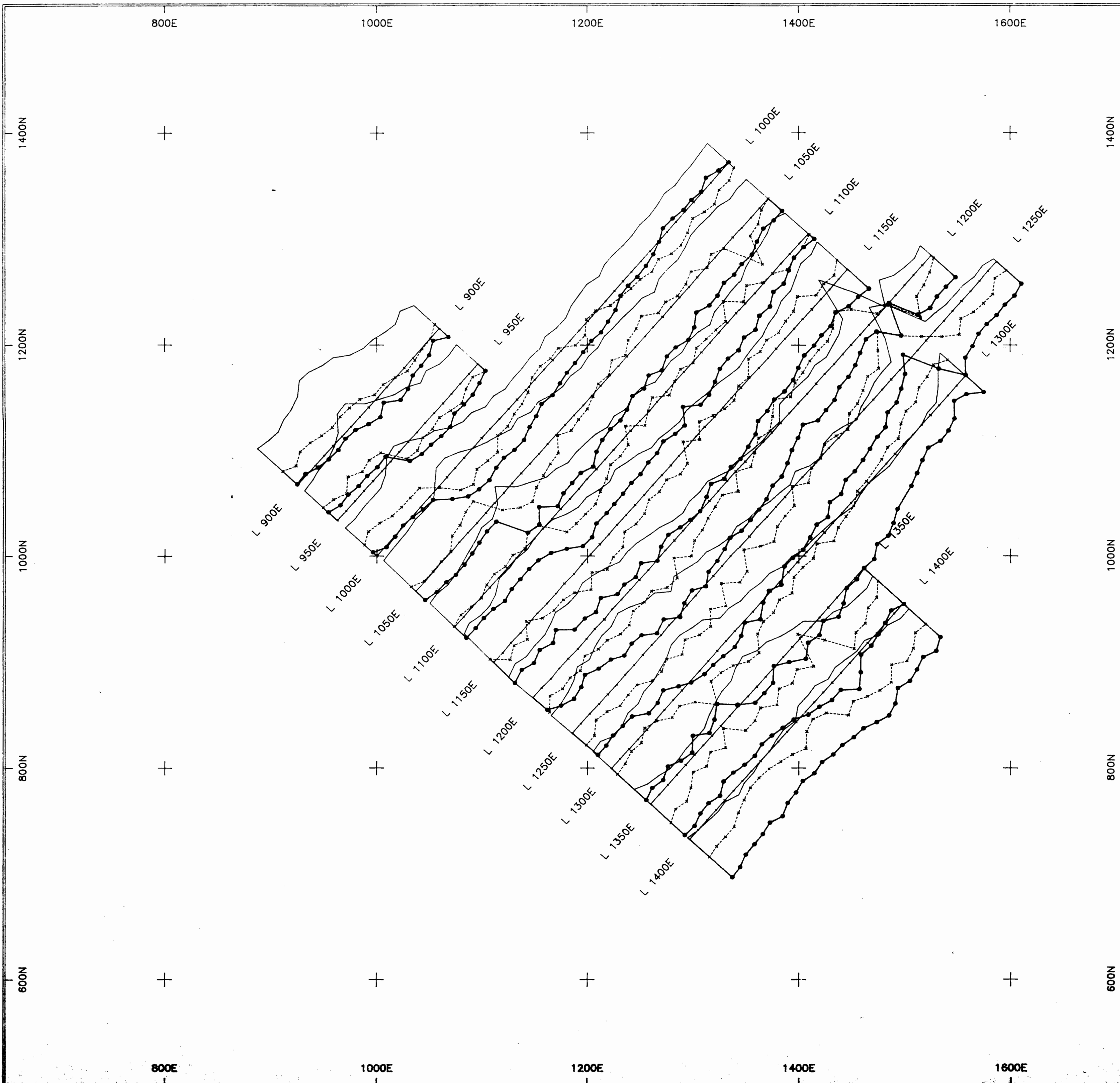
GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

D. W. PIROSHCO
PROFESSIONAL
PROVINCE OF
D. W. PIROSHCO
BRITISH
COLUMBIA
GEOLOGIST

24,727



MAPLE MARK INTERNATIONAL INC. ROYAL BAY GOLD CORP.			
Waratah / Jazz Project			
No. 16 ZONE Trench and Rock Sample Locations & Gold Assay Results			
Scale	as shown	N.T.S. 104B/10W	Drawn by P.N., D.P.
Date	Sept. 1996	Geologist D.P.	Figure 11
Reliance Geological Services Inc.			



Field	Linestyle	Scale	Units
IP		10	-10 *
QD		10	-10 *
FS		24	20 *

**GEOLOGICAL SURVEY BRANCH
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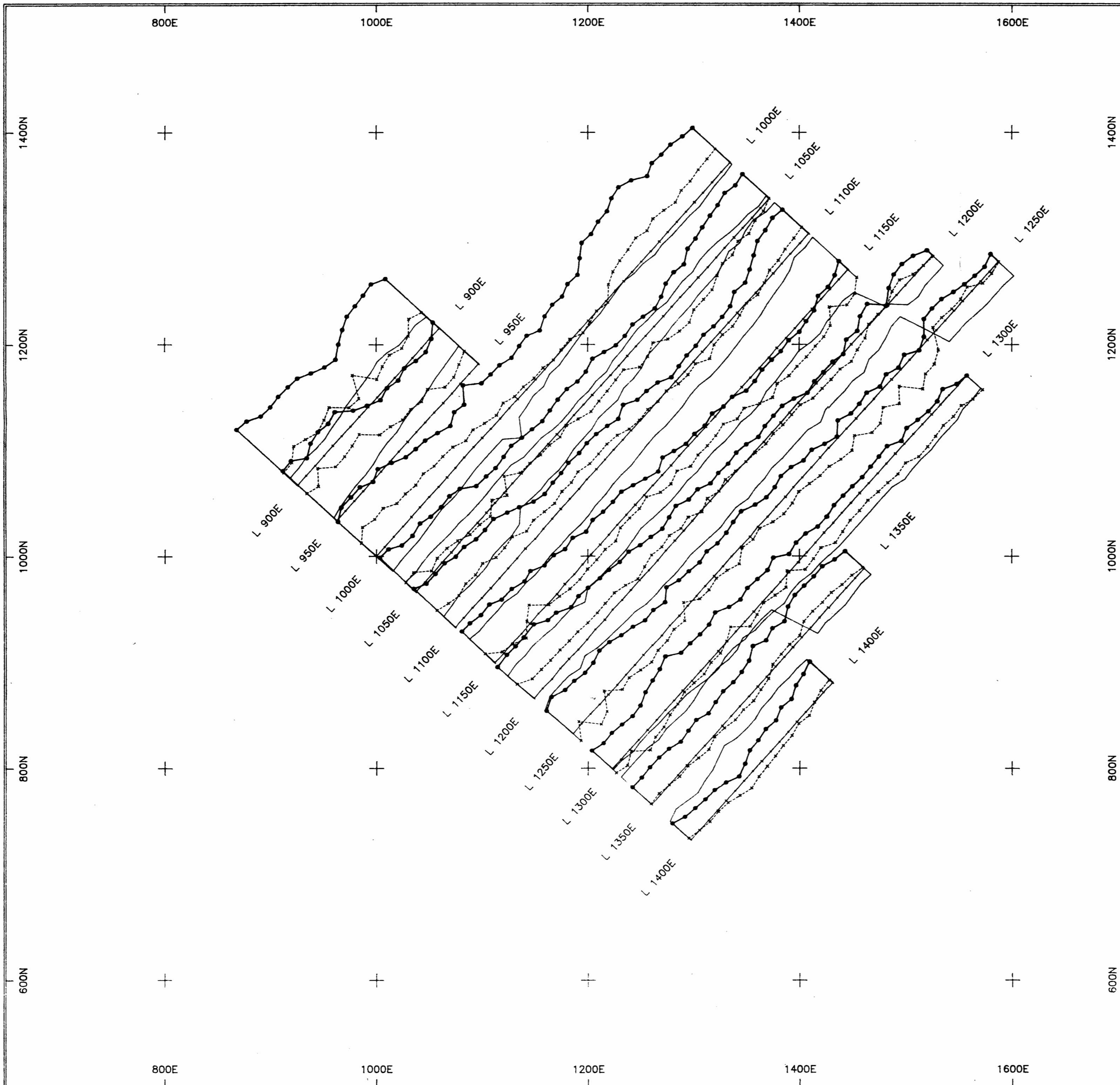


MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD MINES

Waratah/Jazz Project

Detail Grid - Cooper Zone Area
GROUND VLF-EM SURVEY
VLF Transmitter: NLK Seattle (24.8 khz)

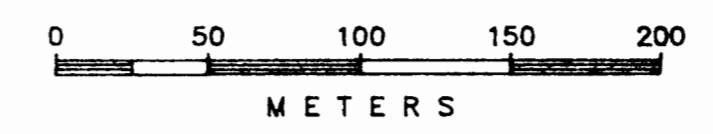
Drawn by: jmt	NTS: 104B/10W	Figure: 12
Date: 98.09.18	Geologist: dp	
RELIANCE GEOLOGICAL SERVICES INC.		



Field	Linestyle	Scale	Units
IP		30	10 m
QD		20	0 m
FS		14	10 m

**GEOLOGICAL SURVEY BRANCH
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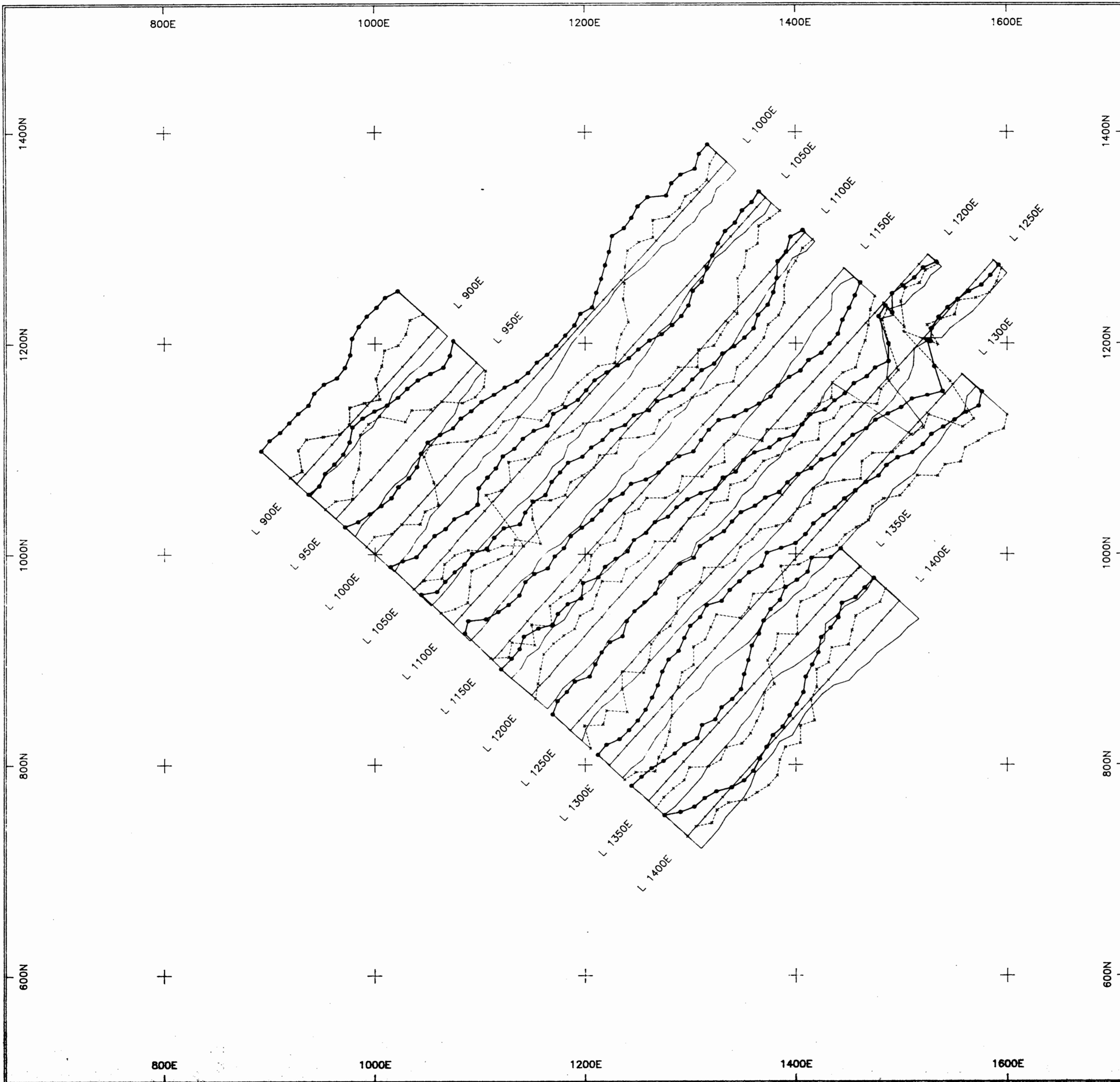
MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD MINES

Waratah/Jazz Project

Detail Grid – Cooper Zone Area
GROUND VLF-EM SURVEY
VLF Transmitter: NPM Hawaii (21.4 kHz)

Drawn by: jmt	NTS: 104B/10W	Figure: 13
Date: 96.09.18	Geologist: dp	

RELIANCE GEOLOGICAL SERVICES INC.



Field	Linestyle	Scale	Units
IP		50	30
QD		10	0
FS		7	5

**GEOLOGICAL SURVEY BRANCH
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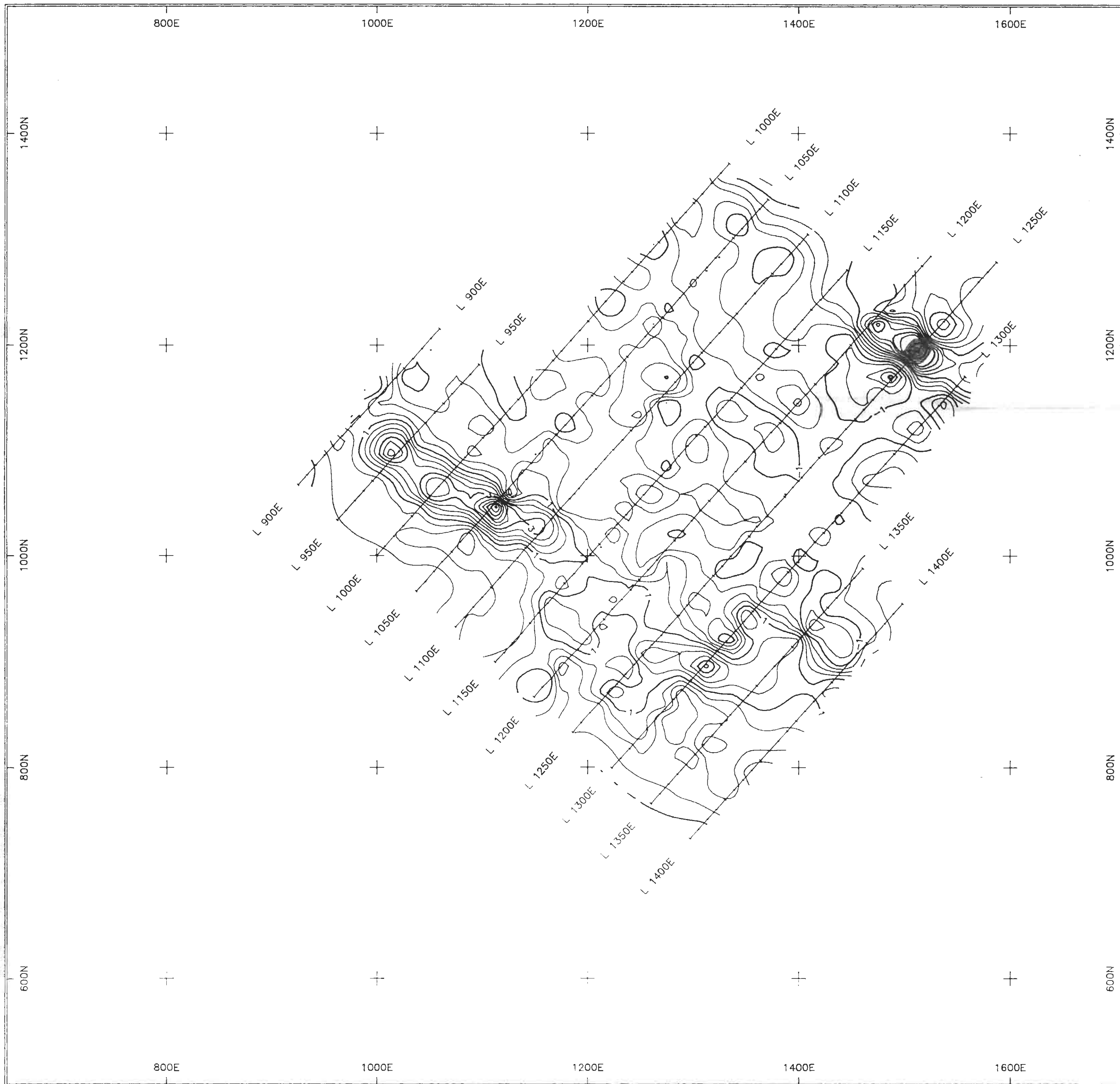
0 50 100 150 200
METERS

MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD MINES

Waratah/Jazz Project

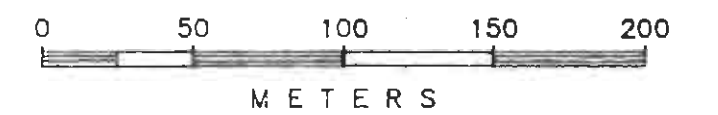
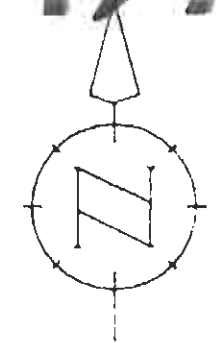
Detail Grid – Cooper Zone Area
GROUND VLF-EM SURVEY
VLF Transmitter: NAA Cutler (24.0 kHz)

Drawn by: jmt	NTS: 104B/10W	Figure: 14
Date: 96.09.18	Geologist: dp	
RELIANCE GEOLOGICAL SERVICES INC.		



GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT

24,727



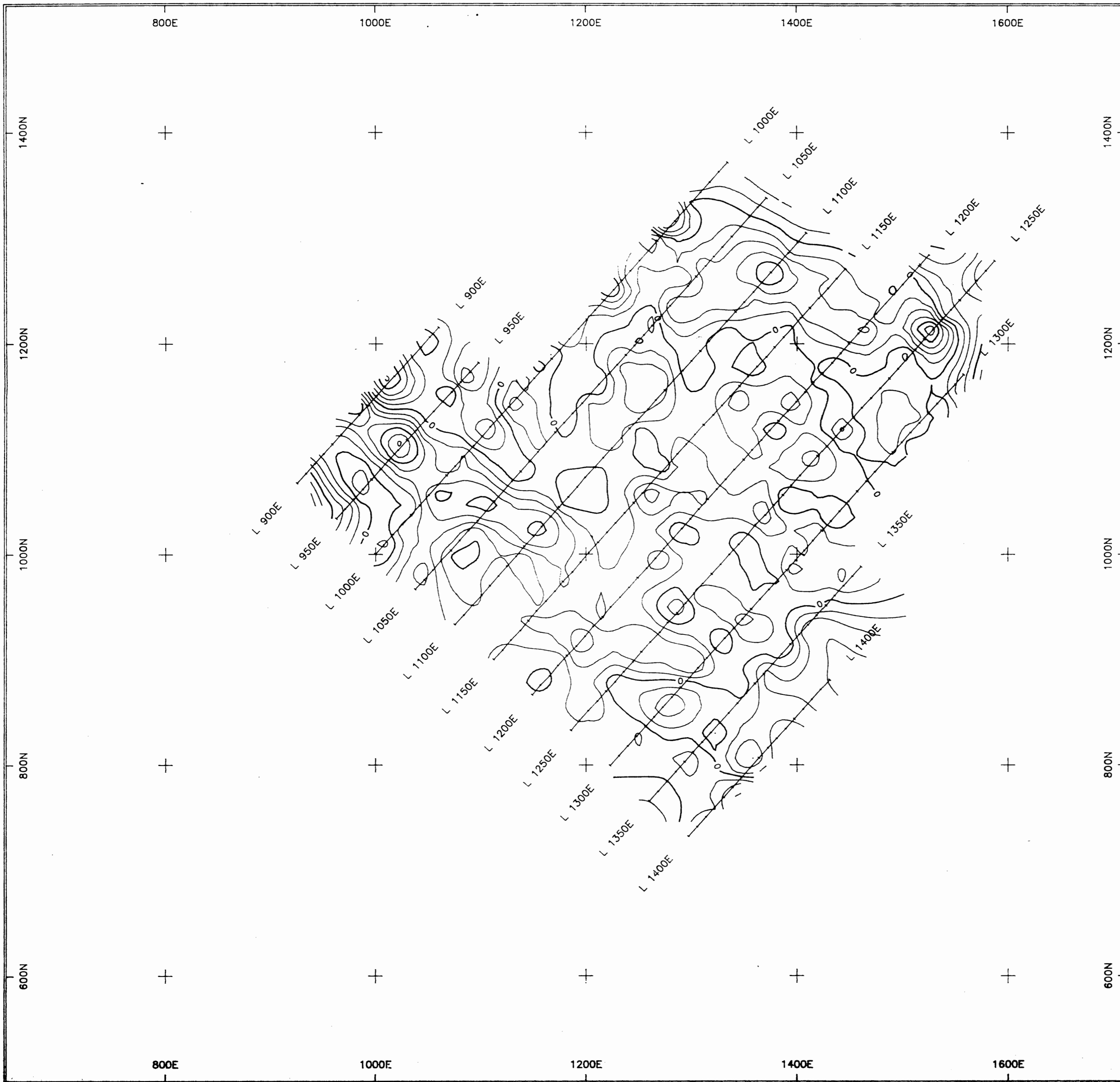
MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD MINES

Waratah/Jazz Project

Detail Grid – Cooper Zone Area
VLF-EM SURVEY – FRASER FILTER
VLF Transmitter: NLK Seattle (24.8 kHz)

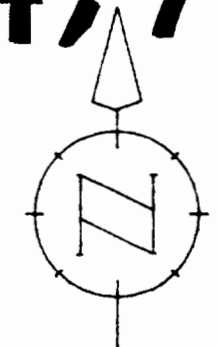
Drawn by: jmt	NTS: 104B/10W	Figure: 15
Date: 96.09.18		

RELIANCE GEOLOGICAL SERVICES INC.



**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

24,727



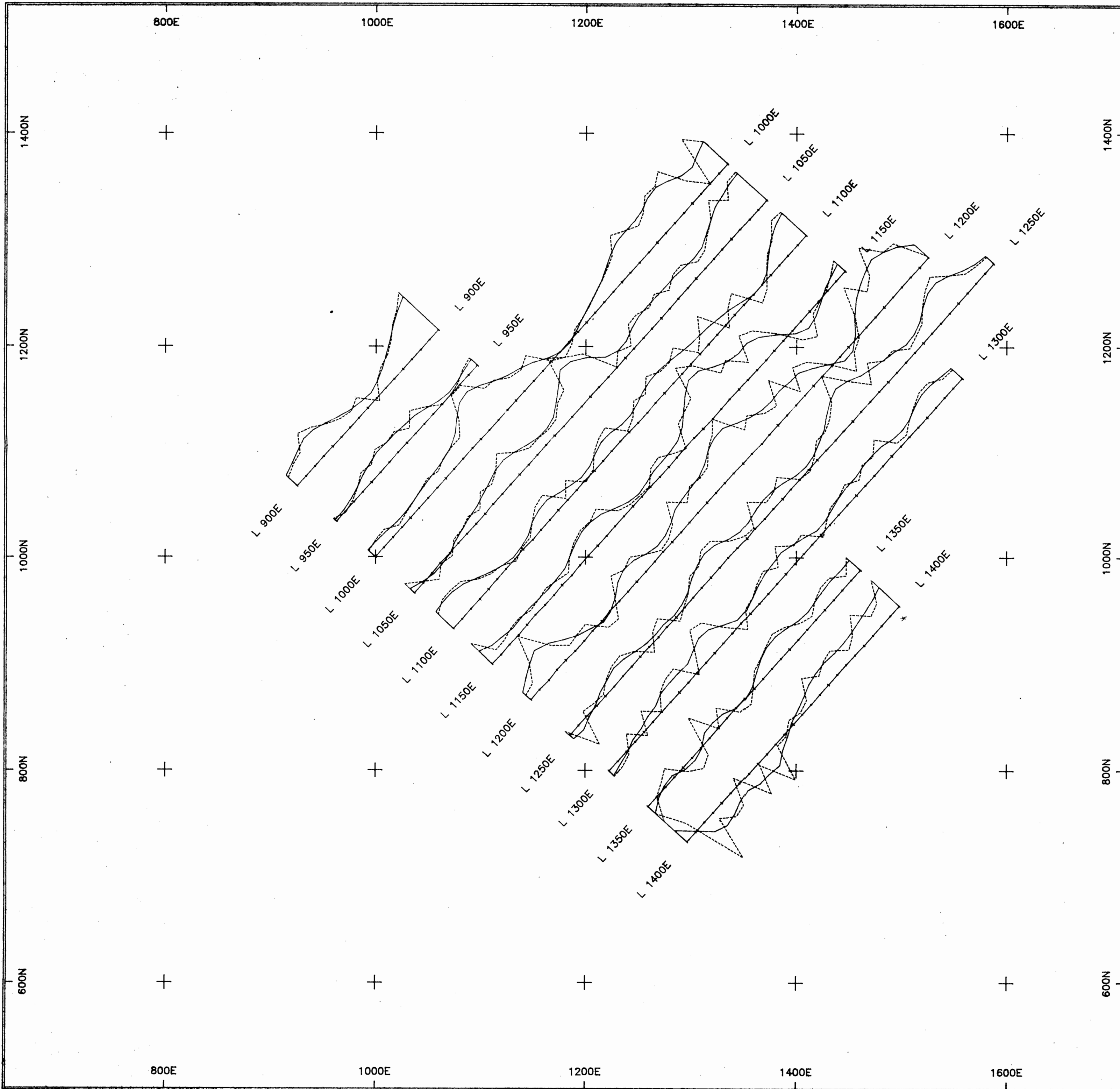
MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD MINES

Waratah/Jazz Project

Detail Grid – Cooper Zone Area
VLF-EM SURVEY – FRASER FILTER
VLF Transmitter: NPM Hawaii (21.4 kHz)

Drawn by: Jmt	NTS: 104B/10W	Figure: 16
Date: 96.09.18		

RELIANCE GEOLOGICAL SERVICES INC.



Field	LineStyle	Scale	Units
MAG		58000 57000	nT
MAGF		58000 57000	nT

**GEOLOGICAL SURVEY BRANCH
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MAPLE MARK INTERNATIONAL INC.
ROYAL BAY GOLD MINES

Waratah/Jazz Project

Detail Grid – Cooper Zone Area
GROUND MAGNETOMETER SURVEY

Drawn by: jmt	NTS: 104B/10W	Figure: 17
Date: 96.09.18	Geologist: dp	
RELIANCE GEOLOGICAL SERVICES INC.		