

082FSW 169

THIS PROSPECTUS CONSTITUTES A PUBLIC OFFERING OF THESE SECURITIES ONLY IN THOSE JURISDICTIONS WHERE THEY MAY BE LAWFULLY OFFERED FOR SALE AND THEREIN ONLY BY PERSONS PERMITTED TO SELL SUCH SECURITIES. NO SECURITIES COMMISSION OR SIMILAR AUTHORITY IN CANADA HAS IN ANY WAY PASSED UPON THE MERITS OF THE SECURITIES OFFERED HEREBY AND ANY REPRESENTATION TO THE CONTRARY IS AN OFFENCE.

PROSPECTUS

California

003245

CHRISTINA EXPLORATIONS LTD.
Incorporated under the laws
of the Province of British Columbia
507 - 1030 West Georgia Street
Vancouver, B.C., V6E 2Y3
(herein called the "Issuer")

NEW ISSUE

800,000 shares at \$0.45 per share

	Price to Public (1)	Commission	Proceeds to Issuer (2)
.....	\$0.45	\$0.05	\$0.40
.....	\$360,000.00	\$40,000.00	\$320,000.00

price of the Offering has been determined by the Issuer in negotiation with Agent.

ore deduction of expenses of this Offering estimated not to exceed \$25,000.

NO MARKET THROUGH WHICH THESE SECURITIES MAY BE SOLD.

OVER STOCK EXCHANGE HAS CONDITIONALLY LISTED THE SECURITIES BEING OFFERED TO THIS PROSPECTUS. THE LISTING IS SUBJECT TO THE ISSUER FULFILLING ALL OF THE LISTING REQUIREMENTS OF THE VANCOUVER STOCK EXCHANGE ON OR BEFORE NOVEMBER 8, 1988, AND THE PRESCRIBED DISTRIBUTION AND FINANCIAL REQUIREMENTS.

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UPON COMPLETION OF THIS OFFERING, THIS ISSUE WILL REPRESENT 37.91% OF THE SHARES THEN OUTSTANDING AS COMPARED TO 43.41% THAT WILL THEN BE OWNED BY THE CONTROLLING PERSONS, PROMOTERS, DIRECTORS AND OFFICERS OF THE ISSUER AND ASSOCIATES OF THE AGENT. REFER TO "PRINCIPAL HOLDERS OF SECURITIES" ON PAGE 10 FOR DETAILS OF SHARES HELD BY DIRECTORS, PROMOTERS AND CONTROLLING PERSONS AND ASSOCIATES OF THE AGENT. REFER TO "OTHER MATERIAL FACTS" ON PAGE 15 FOR DETAILS OF SHARES OWNED BY UNDERWRITERS.

WE, AS AGENT, CONDITIONALLY OFFER THESE SHARES SUBJECT TO PRIOR SALE, IF, AS AND WHEN ISSUED BY THE ISSUER AND ACCEPTED BY US, IN ACCORDANCE WITH THE CONDITIONS CONTAINED IN THE AGENCY AGREEMENT REFERRED TO UNDER "PLAN OF DISTRIBUTION" ON PAGE 1.

AGENT

PACIFIC INTERNATIONAL SECURITIES INC.
1500 - 700 West Georgia Street
Vancouver, British Columbia V7Y 1G1

DATED: April 29, 1988

EFFECTIVE DATE: May 12, 1988

A.L.
PROPERTY FILE

82FSW169
California

P.M. EXPLORATIONS LTD.

SUMMARY REPORT
AND
PROPOSED EXPLORATION PROGRAM

CALIFORNIA CLAIM GROUP
NELSON MINING DIVISION
SOUTH EASTERN BRITISH COLUMBIA

Longitude=117° 18' W

Latitude=49° 27' N

NTS=82F/6E

Mineral Claims

Cal 3, Record No. 2789

Cal 4, Record No. 2790

Cal 5, Record No. 2791

Cal 6, Record No. 2792

Cal 8, Record No. 2846

Crown Grants and Reverted Crown Grants

California, Lot No. 1677

Deadwood, Lot No. 2232

Union, Lot No. 8324

Hillside, Lot No. 2238

Cliff Fraction, Lot No. 15029

Exchequer, Lot No. 391

Cleopatra, Lot No. 387

Operator: Christina Explorations Ltd.

Reported By: M. Magrum, P.Eng.

C. von Einsiedel, B.Sc.

Submitted: November 20, 1987

TERMS OF REFERENCE

Pursuant to an agreement dated July 29, 1987, Christina Explorations Ltd. acquired a 50% interest in a Nelson area gold property which includes the former California Mine. Published technical data indicates that the mine still has considerable reserves however, extensive rehabilitation would be required to substantiate this information.

New Tye Resources optioned the property in 1982, carried out limited surficial work and concluded that the property has "encouraging potential for the development of substantial reserves of ore". Several other gold occurrences are known on the property and are considered secondary targets.

On the basis of this information Christina Explorations commissioned P.M. Explorations Ltd. to conduct a preliminary evaluation of the project and if warranted make recommendations for continued exploration.

INTRODUCTION

During July, August and September the authors compiled published technical data; supervised sampling of all accessible workings; carried out a detailed geochemical survey; and, supervised preliminary rehabilitation of the California mine workings. Rehabilitation work included upgrading of the access road; fencing and closure of open portals and areas stoped to surface; and, reconstruction of the No.3 Level portal.

This report summarizes available technical data and outlines recommendations for continued exploration.

SUMMARY

The California Claim Group consists of six Crown Grants and seven mineral claims covering an area approximately 2.5 kilometers long and one kilometre wide, easily accessible from the south end of the City of Nelson. This district is noted for high grade, vein type gold occurrences several of which are currently being re-evaluated as potential low capital cost, small producers.

This type of deposit is typically associated with shearing at or near volcanic-intrusive contacts and has potential to host reserves of up to several hundred thousand tons at historical production averages of between 0.25 and 0.75 oz/ton gold.

The property covers several gold occurrences termed the California Vein, Cabin Vein, Exchequer Vein, Creek Showing, Union Vein and Deadwood Prospect all localized in a complex contact zone between Nelson Series Intrusives and Rossland Formation Volcanics. The most important of these is the California Vein which is developed on three levels by over 650 meters of drifts and has recorded production of over 2,000 ounces of gold.

A longitudinal section published by Widdendon and Company, (1934) shows that drifting on the No.3 Level encountered a 90 meter long mineralized zone averaging 0.85 oz/ton gold across a width of 1.25 meters. This is a significant intersection which is open both down dip and to the west however, this level is caved at the beginning of a stoped section and these results cannot be confirmed except by underground drifting and diamond drilling.

The objectives of the current exploration program were to: confirm the reported grade of mineralization in the California Vein and assess the potential for parallel veins or strike extensions; conduct a preliminary evaluation of secondary targets; and, commence preliminary stages of mine rehabilitation as a prelude to drifting and diamond drilling of the reported reserves.

An examination of the California Vein shows that the "Vein" consists of parallel, narrow (5 to 20 cm wide) quartz lenses containing fine bands (1 to 5 mm wide) of pyrite, galena and sphalerite localized within an east - west striking shear zone dipping 45 to 55 south. Sampling of dump material at the No.1, No.2 and No.3 Level portals returned an average grade of 0.578 oz/ton gold. A grab sample collected from the caved stope on the No.3 Level (Jones, 1983) returned a grade of 1.09 oz/ton gold.

Geological mapping indicates that the Cabin Vein, Exchequer Vein and Creek Showing occur roughly along strike with the California Vein. Sampling of the Cabin Vein (located approximately 300 meters east of the California) returned gold values ranging from 0.262 to 0.771 across a sample width of 1.0 meter. Selected samples returned grades of up to 7.669 oz/ton. These relationships are well illustrated in the accompanying figure no. 4.

Sampling of the Exchequer Vein (located approximately 50 meters west of the mine workings) returned values ranging from trace to 1.563 oz/ton gold. Jones (1983), sampled the Creek Showing (located approximately 400 meters east of the California) and reported a grade of 0.084 oz/ton gold and 10.94 oz/ton silver across a sample width of 1.30 meters.

The Union Prospect is located several hundred meters north of the California and consists of a shallow dipping quartz vein irregularly mineralized with coarse grained sulfides. Jones (1983) postulates that "this structure may attain greater thickness and higher metallic content as it approaches the volcanic contact". Samples collected during the present survey returned grades of between 0.012 and 0.131 oz/ton gold with minor silver values.

The Deadwood Zone is located in the southeastern part of the property and consists of a broad zone (up to 75 meters wide) of fractured, sericitized, pyritized tuffaceous rocks. Several authors have sampled this zone and have reported results of up to 0.177 oz/ton gold across unspecified widths. Extensive rock sampling and detailed geochemical surveys confirm that this zone hosts anomalous gold values however results are quite low.

Overall, results of the program clearly indicate that the California project warrants continued evaluation. It is recommended that Christina Explorations proceed with rehabilitation of the No.3 Level and carry out a detailed diamond drilling program designed to confirm and test the down dip extent of reported mineralization. If this Phase of exploration is successful a more extensive phase of drilling would be warranted to define reserves and evaluate possible strike extensions of known mineralized zones.

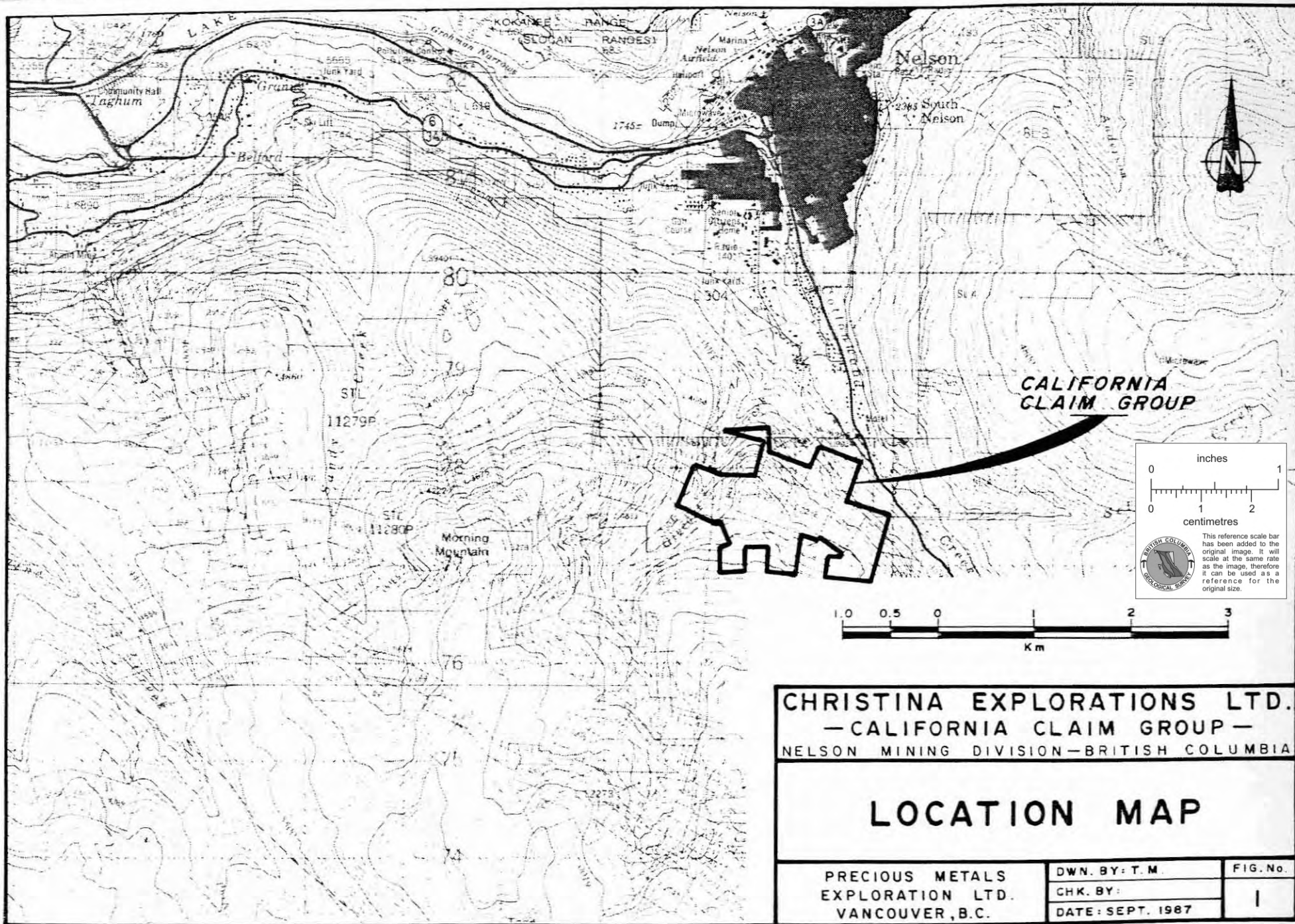
Respectfully submitted,



M. Magrum, P. Eng.
Consulting Engineer

C. von Einsiedel

C. von Einsiedel, B.Sc.
Consulting Geologist



2.1 Location, Access, Ownership (please see Figure 1,2)

The California claim group is located in the Bonnington Range of the Selkirk Mountains 4 km. south of the city of Nelson in the West Kootenay District of southeastern, British Columbia. The claims lie on the heavily timbered eastern slope of Toad Mountain between 3300 - 4000 feet elevation. Access is good via a network of two and four-wheel drive roads from Nelson, which is serviced by regularly scheduled aircraft at Castlegar as well as charter aircraft and helicopter service at Nelson. Good highways connect Nelson to Vancouver, Calgary, and Spokane. All necessary infrastructure for a successful exploration and mining operation at the California are readily at hand, including easily accessible power and labour supplies. Two existing mills within a 30 mile radius are currently being rehabilitated, should be available for custommilling operations.

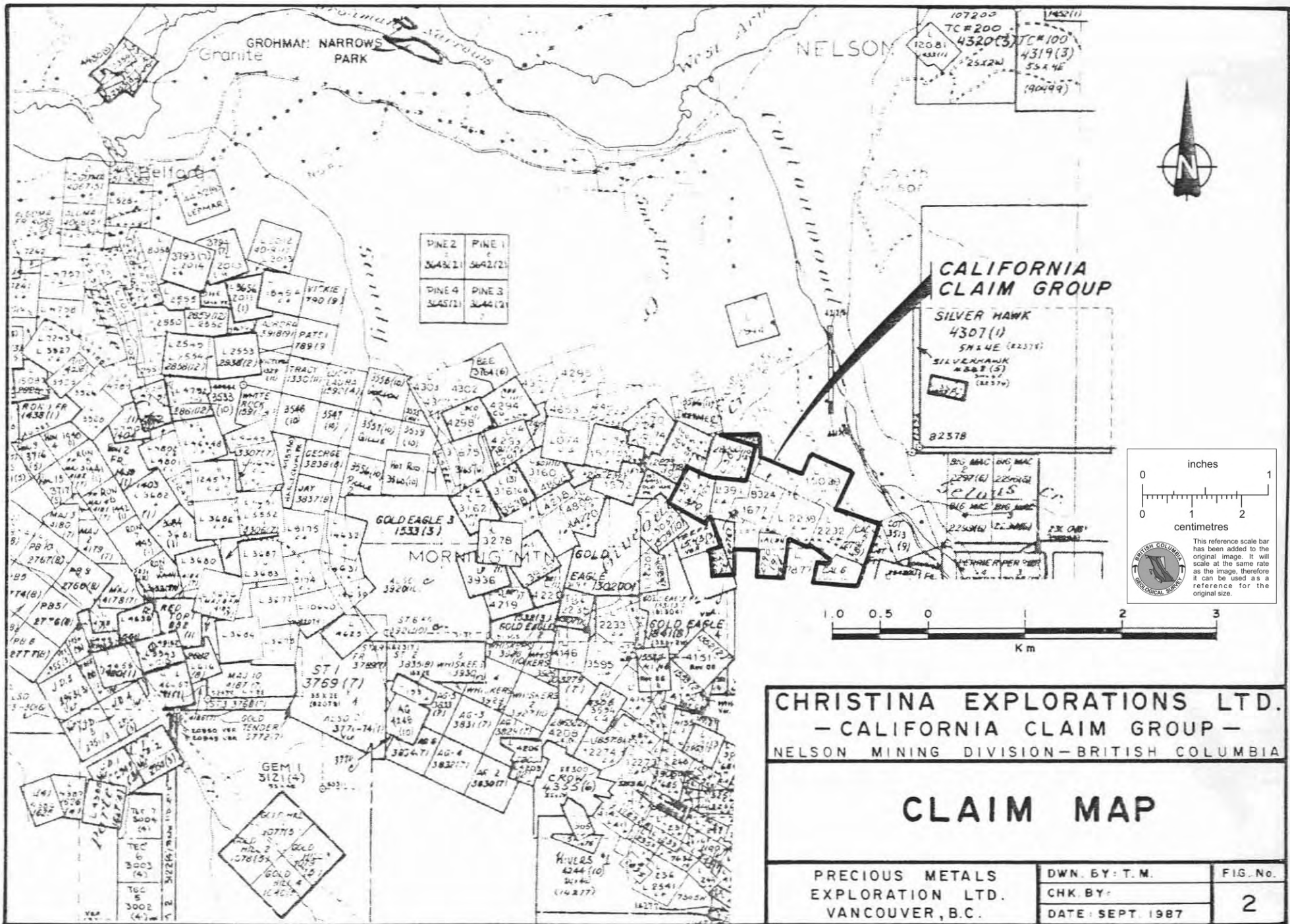
Claim title is recorded in the Nelson Mining Division on Mineral Title Reference Map No. 82F6E as follows:

Crown Grants

<u>Claim Name</u>	<u>Record No.</u>	<u>Status / Ownership</u>
California	1677	All crown granted mineral claims
Union	8324	owned by R. Palmer. Taxes paid 1987.
Cliff Fr.	15029	
Deadwood	2232	
Hillside	2238	
Exchequer	391	

Reverted Crown Grants

<u>Claim Name</u>	<u>Record No.</u>	<u>Expiry</u>	<u>No. of Units</u>	<u>Ownership</u>
Cleopatra	387	Mar 28/90	1	R. Palmer



PINE 2	PINE 1
3432(1)	3442(2)
PINE 4	PINE 3
3445(1)	3442(2)

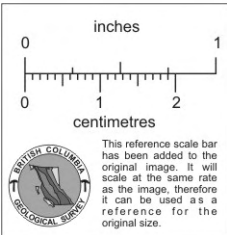
107200	1452(1)
TC#200	TC#100
4320(3)	4319(3)
2512W	5344E
	190499

CALIFORNIA CLAIM GROUP

SILVER HAWK
4307(1)
5N 4E (2237E)

SILVER HAWK
4307(1)
5N 4E (2237W)

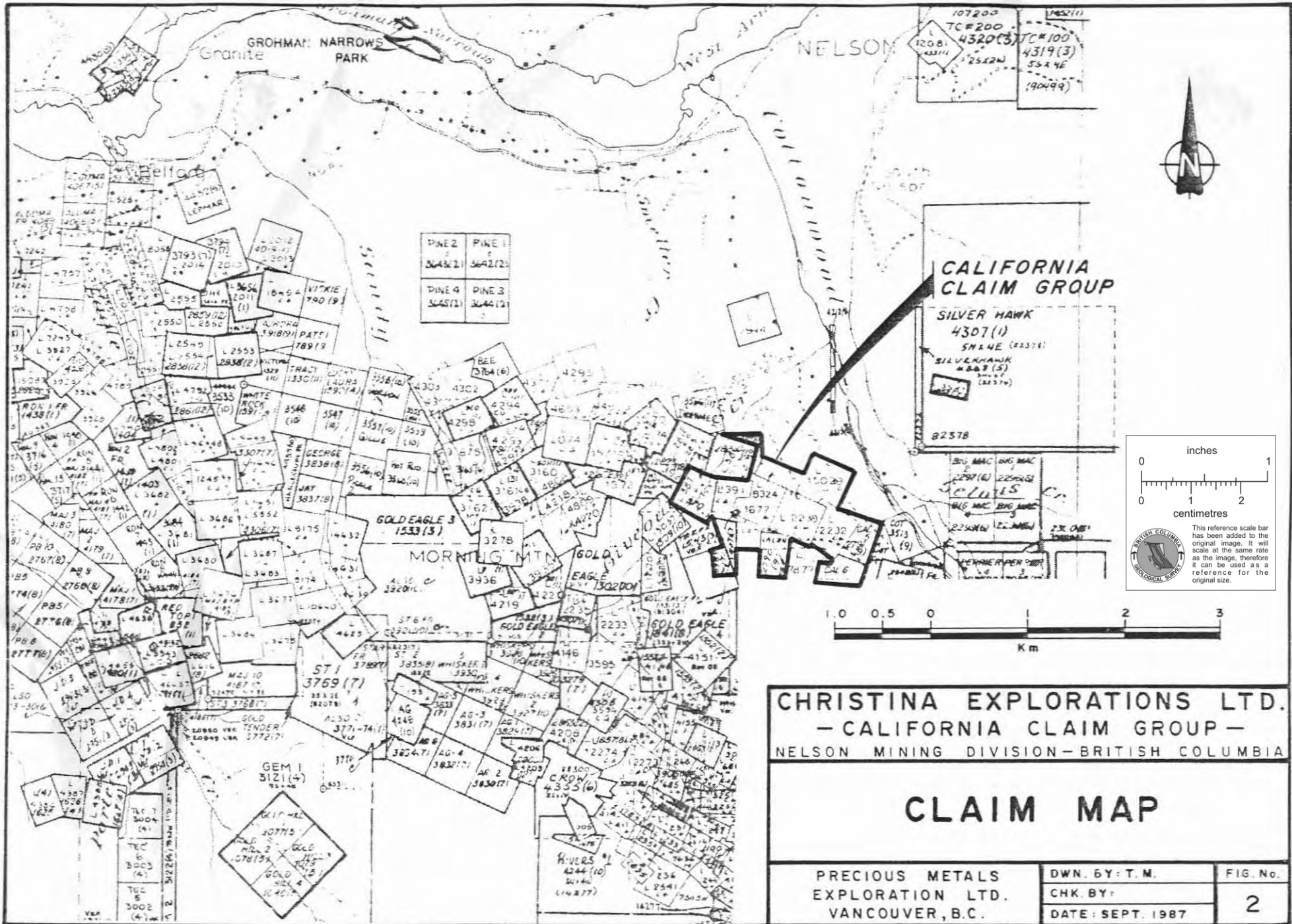
82578



CHRISTINA EXPLORATIONS LTD.
- CALIFORNIA CLAIM GROUP -
 NELSON MINING DIVISION-BRITISH COLUMBIA

CLAIM MAP

PRECIOUS METALS EXPLORATION LTD. VANCOUVER, B.C.	DWN. BY: T.M.	FIG. No.
	CHK BY:	2
	DATE: SEPT. 1987	



GROHMAN: NARROWS
Granite PARK

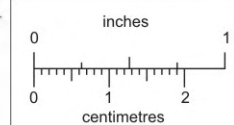
NELSON

107200
TC#200
4320(3)
120.8
4319(3)
534 NE
190499

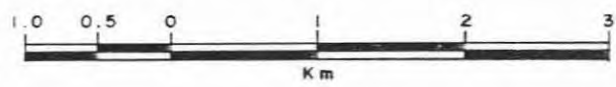
PINE 2	PINE 1
3648(2)	3642(2)
PINE 4	PINE 3
3645(2)	3644(2)

CALIFORNIA CLAIM GROUP

SILVER HAWK
4307(1)
534 NE (22374)
SILVER HAWK
4307(5)
534 NE (22374)



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CHRISTINA EXPLORATIONS LTD.
- CALIFORNIA CLAIM GROUP -
NELSON MINING DIVISION - BRITISH COLUMBIA

CLAIM MAP

PRECIOUS METALS
EXPLORATION LTD.
VANCOUVER, B.C.

DWN. BY: T.M.
CHK. BY:
DATE: SEPT. 1987

FIG. No.
2

Located Claims

<u>Claim Name</u>	<u>Record No.</u>	<u>Expiry</u>	<u>No. of Units</u>	<u>Ownership</u>
Cal 3	2789 (9)	Sep 28/90	1	R. Palmer
Cal 4	2790 (9)	Sep 28/90	1	R. Palmer
Cal 5	2791 (9)	Sep 28/90	1	R. Palmer
Cal 6	2792 (9)	Sep 28/90	1	R. Palmer
Cal 8	2846 (10)	Sep 28/90	1	R. Palmer

2.2 Property History

Since 1897 the property has been variously held and worked under a number of lease and bond arrangements, however most operators have been unable or unwilling to undertake a systematic exploration programme of the property. The annual reports of the British Columbia Department of Mines between 1897 - 1947 describe the early operations on the property.

In 1934 Widdendorff and Company left a record of underground sampling (refer to figure no. 5; Longitudinal Section of the California Mine Area) which indicates an ore block 91 meters long grading 0.85 ounces per ton gold over approximately 1 meter width remaining on the west end of No. 3 level. This ore block abuts a claim line (California/Exchequer) and local prospectors suggest it wasn't mined because of property and boundary disputes. Jones (1982) calculated a tonnage potential for this zone of roughly 40,000 tons above the No. 3 level.

In 1941 the Provincial government conducted a gold mine leasing experiment on the California which involved shipping of 75 tons of hand-sorted ore from areas above No. 1 level. Published records indicate that this shipment averaged 2.10 oz./ton gold. The property was subsequently purchased by Sheep Creek Gold Mines in 1944 who leased the property to various parties, and eventually relinquished title.

In 1982 New Tye Resources carried out a programme of surveying, mapping, and sampling on the property. No further work was done until the 1987 summer programme.

2.3 Regional Geology

(please refer to figure no. 3)

The California claim group is underlain by a west striking, south dipping roof pendant of Elise Formation rocks in the Nelson granitic batholith, intruded by a phase of the Silver King porphyry intrusion. (GSC map 1571 A, Bonnington map area). The Lower Jurassic Elise Formation represents all of the predominantly volcanic succession of the Rosslund Group. "Rosslund volcanics are a complex assemblage of basic volcanic rocks and pyroclastics. Bands of slate, tuff, and limestone occur. Augite andesite, augite porphyry, hornblende andesite and augite-feldspar-porphyrite are the main rock types. In places these rocks are highly sheared and converted to chlorited schists." (Cockfield; G.S.C. Mem. 191)

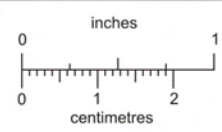
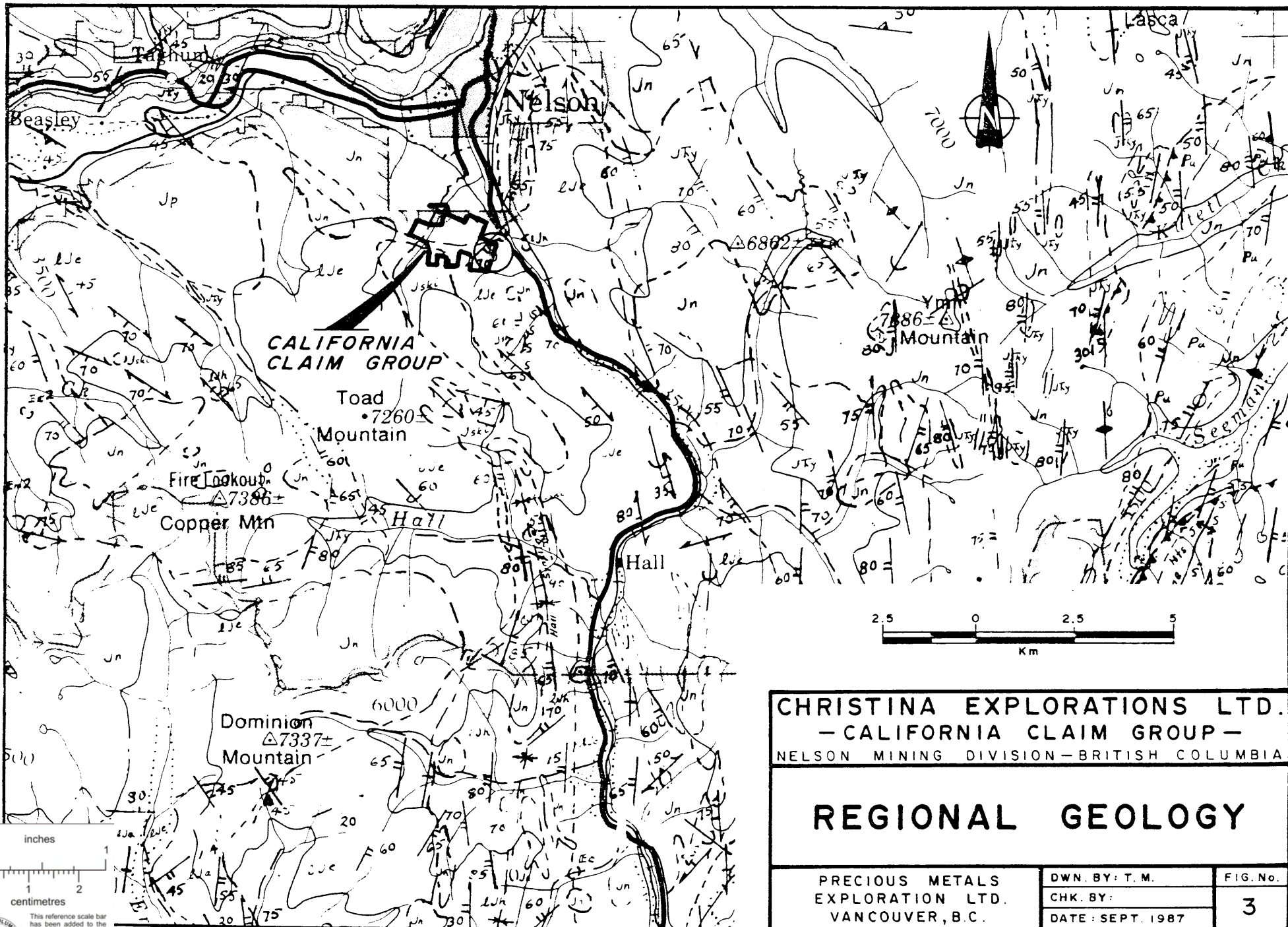
The Silver King porphyry, (hornblende quartz diorite-syenite) is an irregular intrusion widest in the north, narrowest in its central region, and splitting towards the south into a relatively wide stock, and numerous porphyry tongues near the Silver King mine.

The California showings occur in a widespread, uniform zone of strongly foliated pyrite sericite schist having small lenses and cross-fractures filled with quartz, limonite, sphalerite, galena, and chalcopryrite. (Minfile 082FSW169).

2.4 Property Geology

(please refer to figure no's. 4 and 5)

The volcanics on the property are andesites and basalts with some associated tuffs of Lower Jurassic Rosslund Formation. They are light to dark green, occasionally schistose, porphyritic lavas and flows.



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CHRISTINA EXPLORATIONS LTD. — CALIFORNIA CLAIM GROUP — NELSON MINING DIVISION — BRITISH COLUMBIA		
REGIONAL GEOLOGY		
PRECIOUS METALS EXPLORATION LTD. VANCOUVER, B.C.	DWN. BY: T. M. CHK. BY: DATE: SEPT. 1987	FIG. No. 3

PRELIMINARY GEOLOGIC MAP OF NELSON
(N.T.S. 82F WEST HALF) MAP AREA, BRITISH COLUMBIA
Compiled by: H. W. LITTLE

QUATERNARY
Q UNCONSOLIDATED DEPOSITS: ALL SAND, GRAVEL, SILT

TERTIARY
Eocene
E1 CORRIE INTRUSIONS: GRANODIORITE, QUARTZ DIORITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
E2 SHEPPARD INTRUSIONS: MONZONITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
E3 MURPHY FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
E4 KETLE RIVER FORMATION: LUTITELOUS SANDS

CRETACEOUS
UPPER CRETACEOUS
C100 SPOKE MOUNTAIN FORMATION: TUFFACE CONGLOMERATE WITH HIGH PERCENTAGE OF SILTSTONE AND ARGILLACEOUS SHALE
C101 MOUNTAIN FORMATION: TUFFACE CONGLOMERATE WITH HIGH PERCENTAGE OF SILTSTONE AND ARGILLACEOUS SHALE

JURASSIC
J1 NELSON INTRUSIONS: GRANODIORITE, QUARTZ DIORITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
J2 ROSSLAND MONZONITE: QUARTZ MONZONITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
LOWER JURASSIC
J3a HALL FORMATION: ARGILLITE, SHALE, SILTSTONE, PHYLITIC, LOCALLY SOME VOLCANIC ROCKS AND PEBBLE CONGLOMERATE
J3b ELISE FORMATION: ARGILLITE AND BASIC FLINTS AND FLINT BEDS, ARGILLACEOUS MUDSTONE AND SANDSTONE
J3c MICHENER FORMATION: SILTSTONE, ARGILLITE, GNEISS, QUARTZITE, ARGILLITE, MUDSTONE, SANDSTONE, AND LAVA
J4 KOSKIAK GROUP
J4a MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
J4b MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

PERMIAN
P1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
P2 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

CARBONIFEROUS
C102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
C103 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

DEVONIAN
D1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
D2 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

UPPER PALEOZOIC
U1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
U2 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

SYMBRIAN TO DEVONIAN AND TO CARBONIFEROUS
MIDDLE AND UPPER DEVONIAN IN PART
D101 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
D102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

PROTEROZOIC
P101 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
P102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

AGE UNKNOWN
U101 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
U102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

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Q UNCONSOLIDATED DEPOSITS: ALL SAND, GRAVEL, SILT

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P1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
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CARBONIFEROUS
C102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
C103 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

DEVONIAN
D1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
D2 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

UPPER PALEOZOIC
U1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
U2 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

SYMBRIAN TO DEVONIAN AND TO CARBONIFEROUS
MIDDLE AND UPPER DEVONIAN IN PART
D101 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
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P102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

AGE UNKNOWN
U101 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
U102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

QUATERNARY
Q UNCONSOLIDATED DEPOSITS: ALL SAND, GRAVEL, SILT

TERTIARY
Eocene
E1 CORRIE INTRUSIONS: GRANODIORITE, QUARTZ DIORITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
E2 SHEPPARD INTRUSIONS: MONZONITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
E3 MURPHY FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
E4 KETLE RIVER FORMATION: LUTITELOUS SANDS

CRETACEOUS
UPPER CRETACEOUS
C100 SPOKE MOUNTAIN FORMATION: TUFFACE CONGLOMERATE WITH HIGH PERCENTAGE OF SILTSTONE AND ARGILLACEOUS SHALE
C101 MOUNTAIN FORMATION: TUFFACE CONGLOMERATE WITH HIGH PERCENTAGE OF SILTSTONE AND ARGILLACEOUS SHALE

JURASSIC
J1 NELSON INTRUSIONS: GRANODIORITE, QUARTZ DIORITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
J2 ROSSLAND MONZONITE: QUARTZ MONZONITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
LOWER JURASSIC
J3a HALL FORMATION: ARGILLITE, SHALE, SILTSTONE, PHYLITIC, LOCALLY SOME VOLCANIC ROCKS AND PEBBLE CONGLOMERATE
J3b ELISE FORMATION: ARGILLITE AND BASIC FLINTS AND FLINT BEDS, ARGILLACEOUS MUDSTONE AND SANDSTONE
J3c MICHENER FORMATION: SILTSTONE, ARGILLITE, GNEISS, QUARTZITE, ARGILLITE, MUDSTONE, SANDSTONE, AND LAVA
J4 KOSKIAK GROUP
J4a MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
J4b MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

PERMIAN
P1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
P2 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

CARBONIFEROUS
C102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
C103 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

DEVONIAN
D1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
D2 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

UPPER PALEOZOIC
U1 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
U2 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

SYMBRIAN TO DEVONIAN AND TO CARBONIFEROUS
MIDDLE AND UPPER DEVONIAN IN PART
D101 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
D102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

PROTEROZOIC
P101 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
P102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

AGE UNKNOWN
U101 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE
U102 MOUNTAIN FORMATION: QUARTZ DIORITE, GABBRO, MONZONITE, DIORITE, GABBRO, MONZONITE, GNEISS, AND TONALITE

GEOLOGICAL SYMBOLS

Geological boundary (defined, approximate, assumed)

Bedding, tops known (inclined, vertical, overturned)

Bedding, tops unknown (inclined, vertical)

Schistosity (inclined, vertical)

Foliation in igneous rocks and layered metaseds (inclined, vertical)

Lamination (horizontal)

Fault (defined, approximate, assumed)

Thrust fault (defined, approximate, assumed)

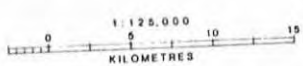
Slopes (steep, gentle)

Anticline (upright, overturned)

Syncline (upright, overturned)

General structural direction (known, unknown)

Fossil locality



THIS AND OTHER MAPS OF THIS AREA ARE AVAILABLE FROM THE GEOLOGICAL SURVEY OF CANADA

The California vein occurs in andesites near a granodiorite contact in a shear zone which strikes easterly and dips 45 - 50° south. The shear zone has a maximum width of 30 meters and hosts two quartz veins with graphitic fractured andesite between them. The hangingwall vein is wider (0.5 - 1.0 meters), and shows the best sulfide mineralization (average gold values of approximately 0.20 oz./ton). The footwall vein, although narrower, (rarely more than 0.3 metres wide), exhibits considerably higher gold values. This vein occurs either as one width, or as several stringers separated by sheared rock. The two veins may touch, or be separated by as much as 2.0 meters of highly altered, graphitic rock. Mineralization is pyrite with lesser sphalerite and galena.

The No. 2 level was stoped through to No. 1 level for the most part leaving the hangingwall vein which has since caved. No rehabilitation is planned to provide access to either of these levels.

Some stoping was done on No. 3 level, but there is no evidence of any exploration below No. 3 level: it remains open at depth, and along strike to the west. Moreover, the opinion is expressed by several workers that the initial 1200 feet of drifting on No. 3 level was not on the California vein proper. The 1919 MMAR states "No. 3 Level followed a barren vein for 1200 feet when it intersected the California vein." The implication is that the more favorable footwall vein remains, and that the drift is actually on the hangingwall vein. No lateral drilling has ever been done to test this hypothesis.

Faulting is present in the workings, but movement never seems to exceed four feet. "On No. 1 level the vein was found to be faulted on a series of small slips striking approx. north, dipping 70°W., with upthrow of centimeters to 1.0 meter on the east side. These slips may possibly be associated with greater widths for the footwall vein and increased gold content." (R.J. Maconachie, 1941). This suggests better values and widths may lie at depth towards the west.

Local topography precludes diamond drill testing for the western and depth extensions of the California vein, and so the portal of the No. 3 level has been rehabilitated, and rehabilitation of the level has been started to provide access to locations suitable for such drill testing.

The Union vein, which lies to the north of the California vein in granitic rocks of the Nelson Batholith, appears to be a tension feature with a gentle, (15°) dip toward the volcanic contact. The vein here is (0.30 to 0.80 meters wide) with white quartz and erratic pyrite and sphalerite mineralization similar to that of the California vein. The Union stope area has returned assays up to 0.38 ounces of gold and 6.5 ounces of silver per ton over a 0.30 meter width and is regarded as a good exploration target towards the volcanic contact (approx 170 meters distant) and towards its possible intersection with the California vein.

The Deadwood zone, which outcrops to the SE of the California, is a wide zone of pyritized tuffaceous rocks reportedly containing erratic gold values. Mapping shows that the zone is approximately 75 metres wide consists of carbonate altered volcanics highly impregnated with pyrite and numerous small veins and stringers of quartz. A short adit, (now caved), was driven on the zone years ago and different operators have sampled the zone with apparently mixed results. The possibility remains that a significant tonnage of low-grade ore might be developed in this zone. To evaluate this zone a closed space soil geochemical survey was carried out. Results are described in the following section.

BIBLIOGRAPHY

The following maps and publications were used in the preparation of this report.

1. Annual Reports of the Minister of Mines, Province of British Columbia: 1897 p.531, 1899 p. 843, 1910 p. 104, 1911 p. 158, 284, 1913 p.130, 419, 1914 p. 326, 510, 1915 p.134, 1916 p. 203, 517, 1917 p. 172, 194, 1918 p. 173, 197, 1919 p. 133, 157, 1920 p. 132, 148, 1921 p. 143, 173, 1922 p. 209, 1928 p. 319, 1930 p. 230, 267, 1933 p. 199, 218, 1934 p. A26, E2, 1935 p. A27, 1936 p. E44, 1937 p. A38, E45, 1938 p. A35, E36, 1939 p. 38, 80, 1940 p. 25, 65, 1941 p. 26, 45, 64, 1942 p. 27, 61, 1943 p. 64, 1944 p. 60, 1947 p. 159.
2. G.S.C. Canada Summary Report, 1911 p. 146.
3. G.S.C. Memoir 191, "Lode Gold Deposits of the Ymir-Nelson Area" by W.E. Cockfield.
4. G.S.C. Paper 52-13, Bonnington Map Area.
5. 1941 - B.C. Government, "Gold Mine Leasing Experiment". Open file report attributed to R. J. Maconachie, M.E.
6. Jones, H. M., 1982, Summary Report on the Hillside Gold Prospect for new Tyee Resources Ltd.

3.1 Survey Description (please refer to figure no. 4)

Published technical data (Ministry of Mines Annual Report, 1930 p. A268 and Jones, 1983) indicates that the "Deadwood" Zone hosts significant gold mineralization. The zone is described as being approximately 75 meters wide consisting of carbonate altered volcanics containing abundant pyrite and quartz stringers. This is a favourable environment for the localization of large tonnage, low grade type gold deposits however little information is available regarding the distribution of gold within the zone. To evaluate this type of mineralization trenching and detailed sampling of specific areas containing elevated gold contents is required.

To identify such targets a detailed geochemical survey was carried out. Soils within the project area are generally thin (0.5 to 1.5 meters) and consist of mixed angular rock fragments and fine red brown material.

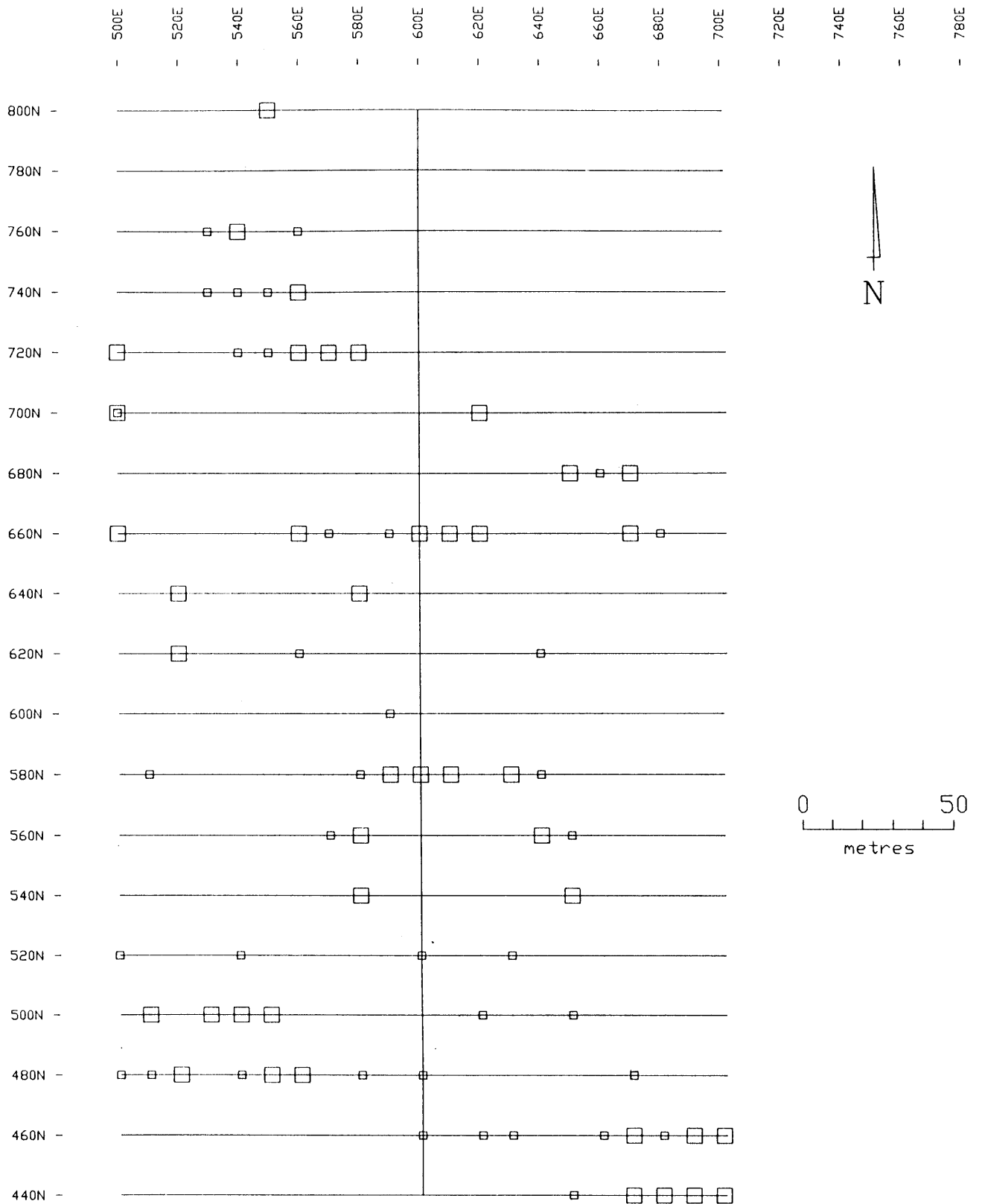
A grid was established (see figure no. 4) with profile lines cut at 20 meter intervals and sample stations flagged at 10 meter intervals. A total of 427 samples were collected and assayed for gold and a suite of 26 elements (ICP technique). Geochemical data is included as Appendix 2. Figure no.s 6 - 10 show the distribution of anomalous values within the area surveyed.

3.2 Survey Results (please refer to figure no.s 6, 7, 8, 9 and 10)

The results of the survey are difficult to interpret. Erratic high values in gold (up to 570 ppb), zinc (up to 789 ppm), copper (up to 510 ppm),

lead (up to 228 ppm) and silver (up to 2.4 ppm) were recorded. In some instances co-incident anomalies occur however, for most sites metal values show only limited correlation.

There is a concentration of "high" values in the south central part of the grid area however no distinct mineralized zone has been defined. It is recommended that additional hand trenching and rock sampling be carried out in the area of the highest gold values. If a gold bearing zone is defined trenching and detailed sampling is warranted.



□ 25 to <40 ppb Au: High Values
 □ 40+ ppb Au: Anomalous Values

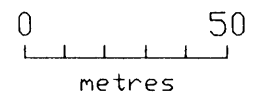
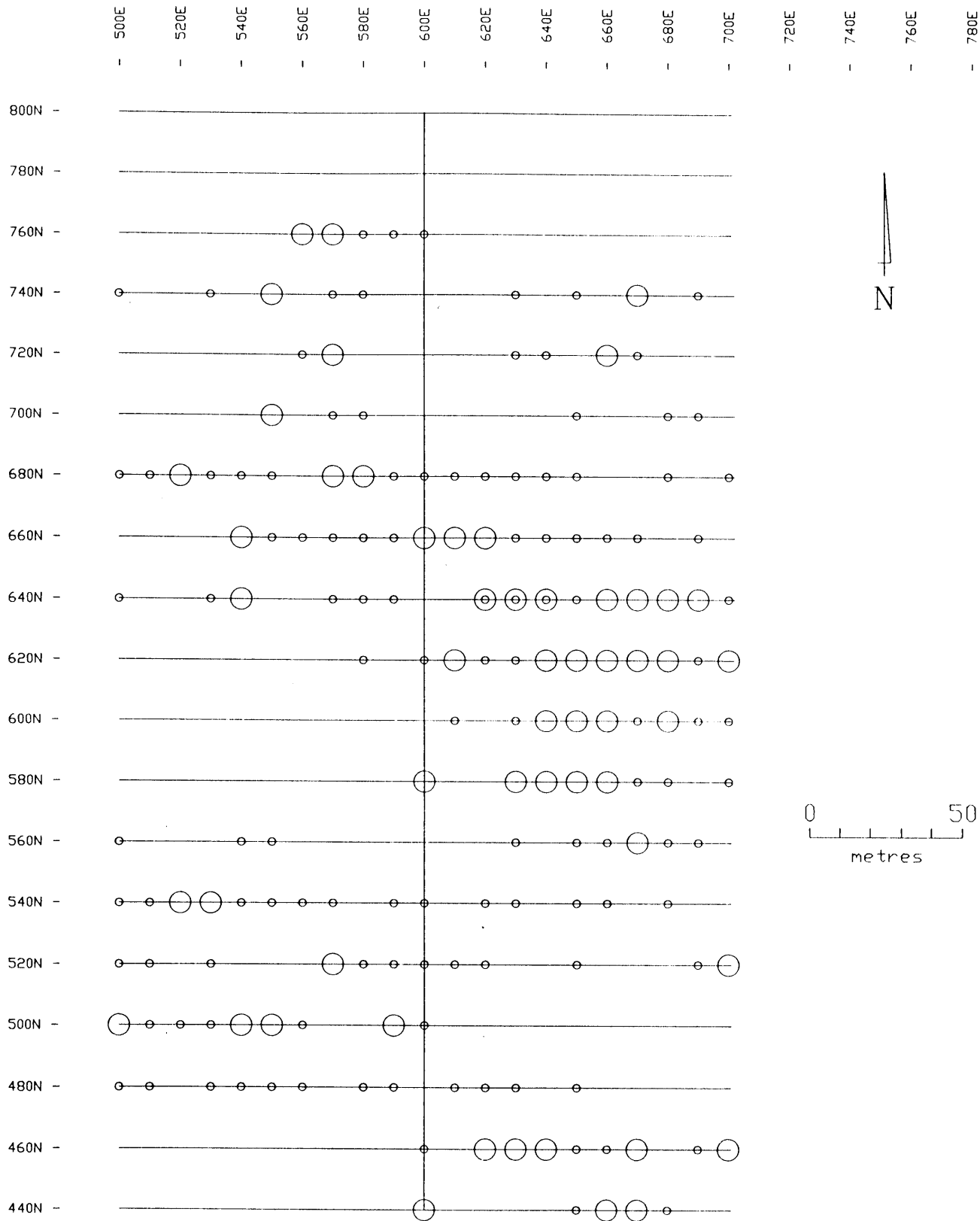


Figure 6

CHRISTINA EXPLORATIONS LTD
 CALIFORNIA PROJECT
 DEADWOOD ZONE
 GEOCHEMICAL SURVEY
 Gold ppb
 DATE: 8 October 1987 SCALE: 1 : 1
 TONY CLARK CONSULTING



○ 0.35 to <0.8 ppm Ag: High Values
 ○ 0.8+ ppm Ag: Anomalous Values

Figure 7

CHRISTINA EXPLORATIONS LTD
CALIFORNIA PROJECT
DEADWOOD ZONE
GEOCHEMICAL SURVEY
Silver ppm
DATE 6 October 1987/SCALE 1:
TONY CLARK CONSULTING

- 780E -

500E 520E 540E 560E 580E 600E 620E 640E 660E 680E 700E 720E 740E 760E 780E

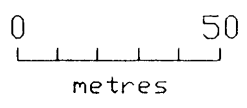
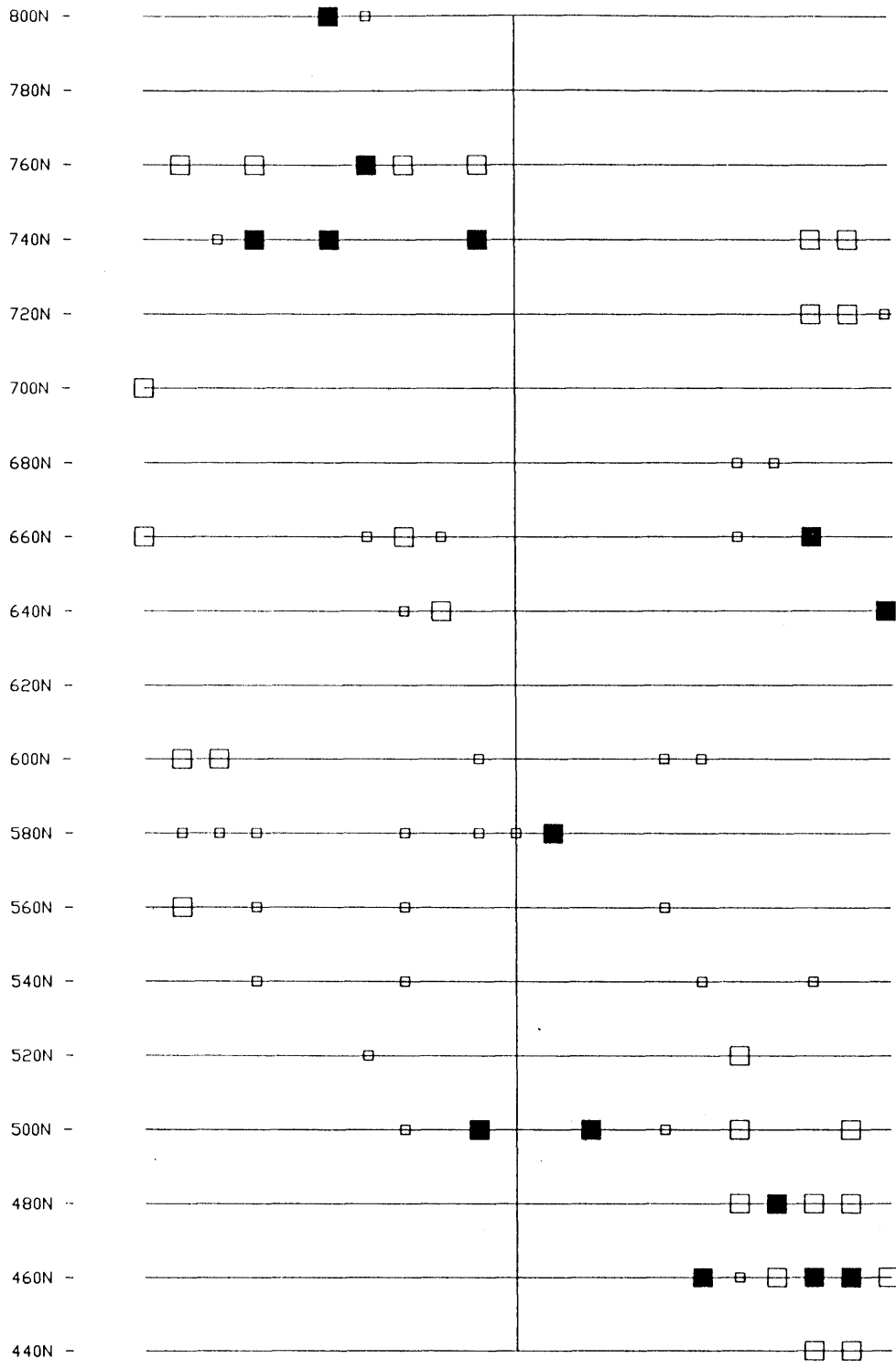


Figure 8

CHRISTINA EXPLORATIONS LTD
 CALIFORNIA PROJECT
 DEADWOOD ZONE
 GEOCHEMICAL SURVEY
 Copper ppm
 DATE: 8 October 1987 SCALE: 1:10000
 TONY CLARK CONSULTING

LTD
F

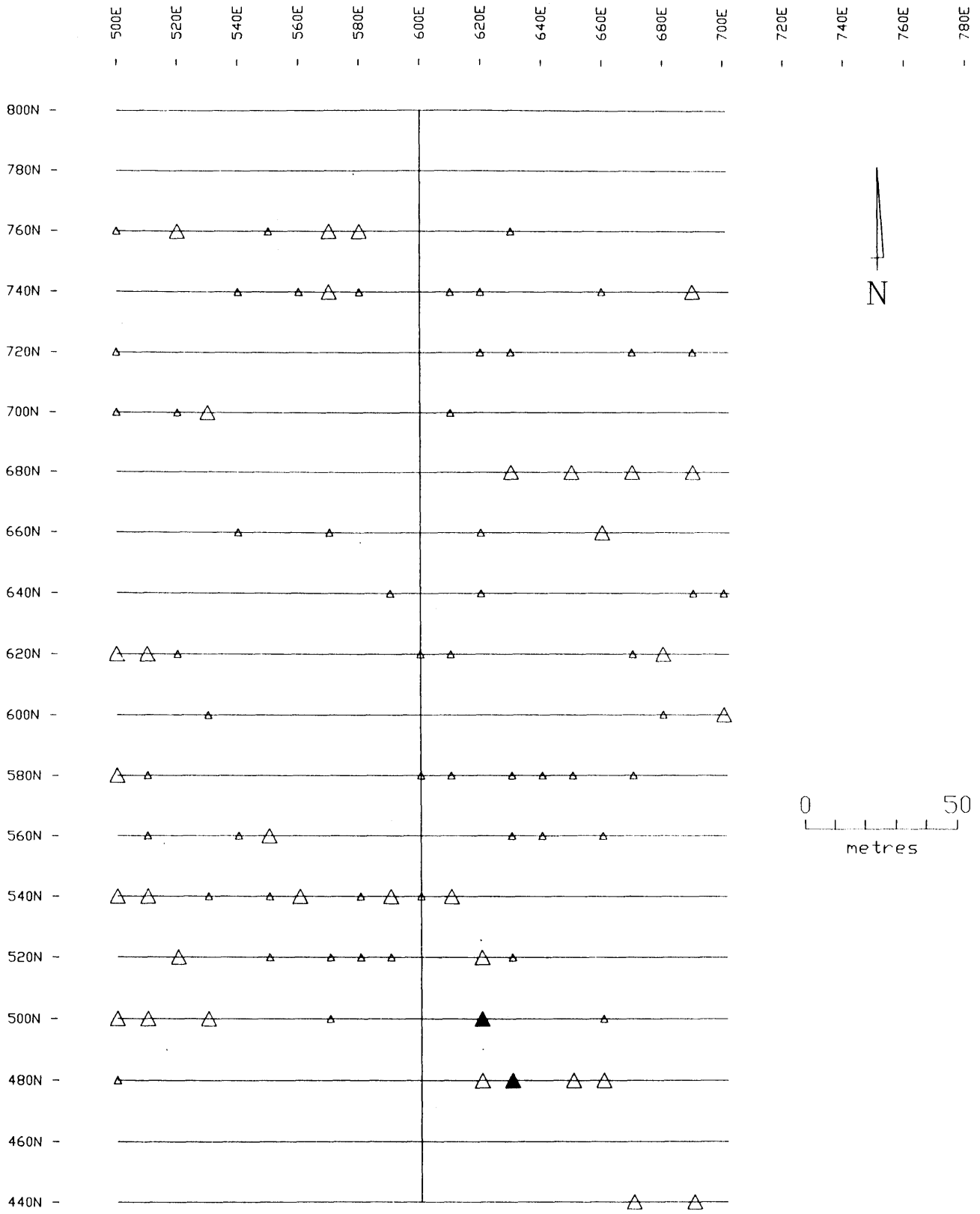
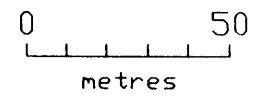
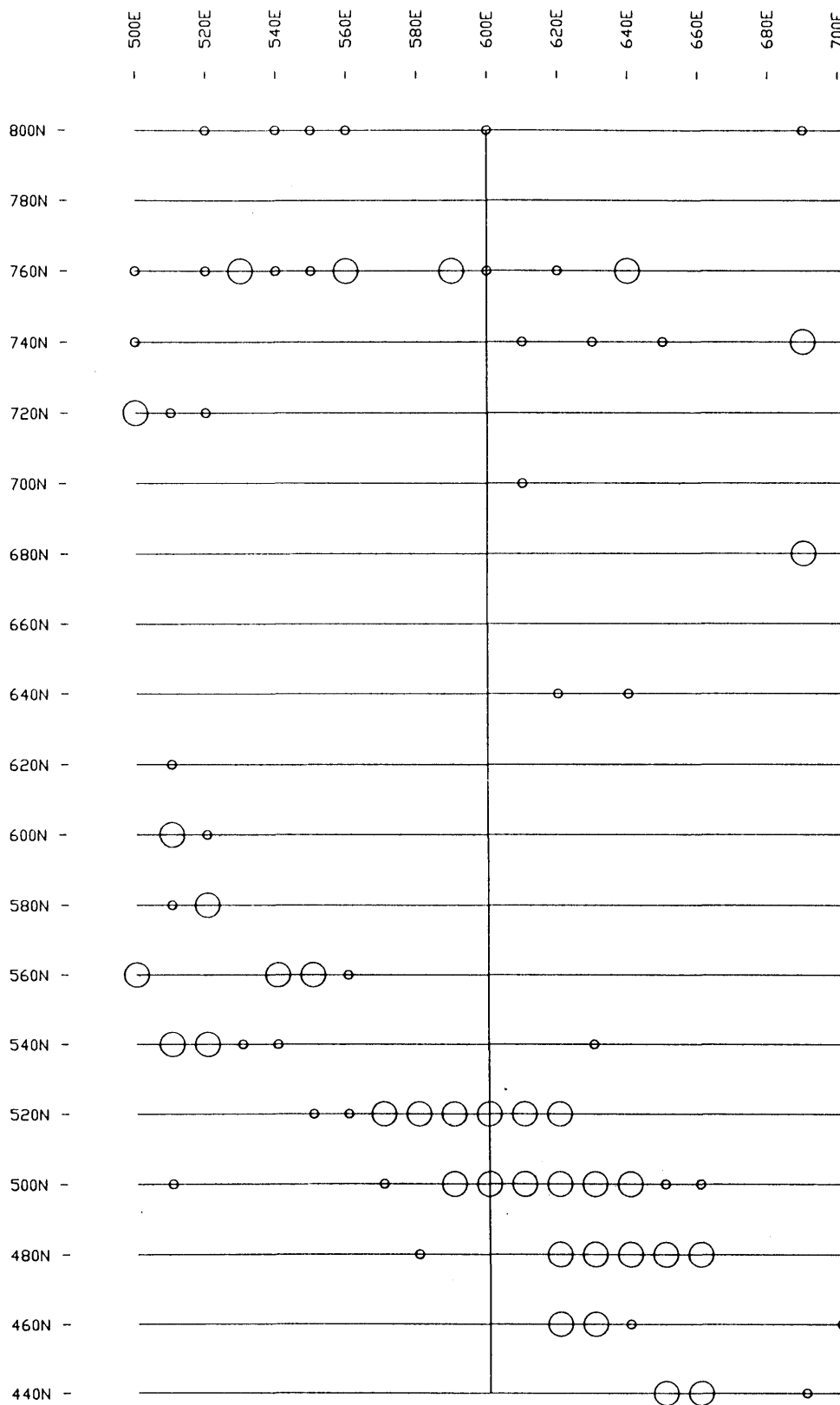


Figure 9

CHRISTINA EXPLORATIONS LTD.
CALIFORNIA PROJECT
DEADWOOD ZONE
GEOCHEMICAL SURVEY
Lead ppm
DATE: 6 October 1987 / SCALE: 1 :
TONY CLARK CONSULTING



○ 125 to <160 ppm Zn High Values
 ○ 160+ ppm Zn Anomalous Values

Figure 10

CHRISTINA EXPLORATIONS LTD.
CALIFORNIA PROJECT
DEADWOOD ZONE
GEOCHEMICAL SURVEY
Zinc ppm
DATE: 8 October 1997 SCALE: 1:
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APPENDIX 1

CALIFORNIA PROJECT

Rock Sample Descriptions

Sample I.D.	Gold oz./ton	Description
Location: Exchequer Adit		
Ex-1X	0.005	grab sample from 20cm wide, banded quartz vein in 1.5 - 2.0 meter wide sheared zone; minor / 3% sulfides.
Ex-2x	tr	grab sample of fractured, stained wall rock in footwall of sample: Ex-1x location, quartz / siliceous material contains minor, fine grained, banded and disseminated sulfides.
Ex-3x	tr	grab sample of smokey, barren quartz from stoped area above crosscut (Ex-1X); nil sulfide.
Ex-4d	1.563	grab sample of well mineralized quartz vein material on dump at portal of crosscut; sulfides (galena, sphalerite, pyrite) occur as fine grained bands and as coarse patches in massive, coarsely crystalline, white quartz.
Ex-5T	0.176	grab sample of mixed quartz and stained wall rock at top of stope; sulfides occur as in sample: Ex-4d.
Location: California Level No. 2		
CAFS-1	2.205	grab sample of well mineralized quartz from narrow, parallel veins (5 to 15cm wide); Note: minor visible gold in addition to banded, fine grained sulfides.
CAFS-2	2.131	channel sample across parallel, well mineralized quartz veins (5 to 15cm wide); quartz is white, coarsely crystalline; sulfides (pyrite, sphalerite, chalco pyrite, and possible tetrahedrite are fine to medium grained in narrow (1 to 5 mm wide) bands and as patches or disseminated grains.
CAFS-3	7.669	grab composite of quartz from dump at portal; quartz and sulfides occur as above.

Sample I.D.	Gold oz./ton	Description
FS-1	0.484	channel sample across two veins in 0.75 meter wide fractured zone.
FS-2	0.262	channel sample; 2.5m from FS-1; width - 1.00 meter.
FS-3	0.771	channel sample; 2.5m from FS-2; width - 1.00 meter.
Location: California No. 1 Level		
L1D1	0.776	grab from dump at portal; coarsely crystalline white quartz with banded and massive sulfides; Note: some bands up to several cm wide consist of coarse pyrite, chalcopyrite, shalerite disseminated throughout quartz gangue.
L1D2	0.171	grab sample same location as sample: L1D1.
Location: California No. 2 Level		
L2D1	0.875	grab sample from dump at portal; mixed decomposed, stained wall rock (volcanic) and banded quartz containing minor sulfides; sulfide material heavily oxidized.
L2D2	0.938	grab sample from same location as sample: L2D1.
L2D2A	0.026	grab sample from loading bin; quartz with banded sulfides.
L2D3	0.684	grab sample from same location as sample: L2D1.
Location: Union No. 1 Adit (This drift explores a 0.5 to 0.75 meter wide, flat lying quartz vein containing narrow bands and irregular patches of fine to coarse sulfides.)		
U1	0.012	grab sample of mineralized quartz; contains approx 10% pyrite, galena and sphalerite.

Sample I.D.	Gold oz./ton	Description
U2	0.112	grab sample of mineralized quartz; same location as sample: U1.
U3	0.012	channel sample across 0.50 meter width of coarsely crystalline white quartz; approx 7-10% sulfides.
U4	0.012	channel sample across 0.50 meter width of coarsely crystalline white quartz; approx 7-10% sulfides.
U5	0.008	channel sample across 0.50 meters; location 2.5 meters from sample: U3.
U6	0.088	channel sample across 0.75 meters; location
U7	0.005	channel sample across 0.75 meters; location 2.0 meters from sample: U6.

Location: Union No. 2 Adit

(This occurrence is a parallel vein to that developed in the Union No. 1 adit; up to 1.5 meters in width and contains abundant 5-15% sulfides.)

U2-1	0.131	channel sample across 0.55 meters at face; quartz and fractured, stained wall rock (granodiorite); quartz contains irregular bands and patches of pyrite, galena and sphalerite.
U2-2	0.053	channel sample across 0.45 meters; same location as sample: U2-1.
U2-3	tr	channel sample across 0.60 meters quartz and fractured wall rocks; located 2.5 meters from sample: U2-1.
U2-D	0.012	grab sample from dump at portal; consists of smokey, coarsely crystalline quartz containing disseminated and massive streaks of pyrite, arseno-pyrite, galena and trace sphalerite; abundant limonitic staining.
DDH (83-1/50m)	tr	split core - stored in Union No. 2 Level. (Assay tag 98-201-2 - see 1983 engineering report): 0.65 meter core length of quartz with bands of pyrite, galena (granodiorite host rock).
DDH (83-2/191m)	tr	split core; minor pyrite in 10cm wide quartz vein in granodiorite.

Sample I.D.	Gold oz./ton	Description
Location: California - (trenching on west extension of No. 1 Level vein).		
TR-CA1	0.023	grab sample of decomposed, vuggy quartz; minor banded sulfide; volcanic wall rocks.
Location: Deadwood Occurrence (Adit)		
(This prospect is a broad, north trending heavily stained, fracture zone in volcanics; quartz stringers, sericitic alteration and pyritization are ubiquitous).		
DEAD-1	0.019	channel sample across siliceous pyritic band 1.5 meters wide.
DEAD-2	tr	grab sample of vuggy, coarsely crystalline quartz; disseminated pyrite.
AV-1	tr	grab sample of altered andesite with disseminated and banded sulfides (pyrite).

Location: Deadwood - road cut section

(all samples are from sericitized, fractured volcanics containing variably developed quartz stringers and pyrite.)

Sample I.D.	Gold (ppb)
Deadwood Road Cut 0.0 m.	nd
Deadwood Road Cut 3.5 m.	nd
Deadwood Road Cut 10.0 m.	nd
Deadwood Road Cut 22.0 m.	280
Deadwood Road Cut 28.0 m.	nd
Deadwood Road Cut 32.0 m.	15
Deadwood Road Cut 36.0 m.	20
Deadwood Road Cut 49.0 m.	nd
Deadwood Road Cut 61.0 m.	40
Deadwood Road Cut 73.0 m.	45
Deadwood Road Cut 87.0 m.	nd
Deadwood Road Cut 100.0 m.	nd
Deadwood Road Cut 120.0 m.	nd



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 998-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5858

39 rock

REPORT NUMBER: 871094 GA

JOB NUMBER: 871094

P.M. Explorations Ltd.

PAGE 1 OF 1

SAMPLE #	Au ppb
CA-FS-1	75600
CA-FS-2	73060
CA-FS-3	262930
CAL-3	240
AV-1	100
DEAD-1	650
DEAD-2	50
DEAD-DUMP	nd
DDA-83-1	60
DDH-83-2	5
EX-DUMP	2700
EX-ST	6030
EX-1X	190
EX-2X	10
EX-3XS	nd
EX-4D	53590
FS-1	16590
FS-3	26430
FS-S	8980
LI-D1	26260
LI-D2	5860
LI-D2A	890
L2-D1	30000
L2-D2	32160
L2-D3	23450
TR-CA-1	780
TR-2	5960
V1	410
V2	3840
V3-V4	420
V5	280
V6	3010
V7	140
V2-D	410
V2-1	4500
V2-2	1810
V2-3	10
CA-TR-4	650
CA-TR-5	1500

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



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MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

39 Rock

REPORT NUMBER: 871094 AA

JOB NUMBER: 871094

P.M. Explorations Ltd.

PAGE 1 OF 2

SAMPLE #	Au oz/st
CA-FS-1	2.205
CA-FS-2	2.131
CA-FS-3	7.669
CAL-3	.007
AV-1	<.005
DEAD-1	.019
DEAD-2	<.005
DEAD-DUMP	<.005
DDA-83-1	<.005
DDH-83-2	<.005
EX-DUMP	.079
EX-ST	.176
EX-1X	.005
EX-2X	<.005
EX-3XS	<.005
EX-4D	1.563
FS-1	.484
FS-3	.771
FS-S	.262
LI-D1	.766

DETECTION LIMIT .005
1 Troy oz/short ton = 34.28 ppm 1 ppm = 0.0001% ppm = parts per million < = less than

signed: _____



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 968-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-6656

REPORT NUMBER: 871094 AA

JOB NUMBER: 871094

P.H. Explorations Ltd.

PAGE 2 OF 2

SAMPLE #	Au oz/st
LI-D2	.171
LI-D2A	.026
L2-D1	.875
L2-D2	.938
L2-D3	.684
TR-CA-1	.023
TR-2	.174
V1	.012
V2	.112
V3-V4	.012
V5	.008
V6	.088
V7	.005
V2-D	.012
V2-1	.131
V2-2	.053
V2-3	<.005
CA-TR-4	.019
CA-TR-5	.044

DETECTION LIMIT

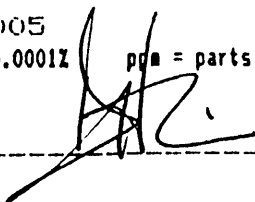
1 Troy oz/short ton = 34.28 ppm

.005
1 ppm = 0.0001%

ppm = parts per million

< = less than

signed: _____





17 rock

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MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 966-6211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5658

REPORT NUMBER: 871257 GA

JOB NUMBER: 871257

P.M. EXPLORATIONS

PAGE 1 OF 1

SAMPLE #	Au
	ppb
Deadwood Road Cut 0.0m	nd
Deadwood Road Cut 3.5m	nd
Deadwood Road Cut 10.0m	nd
Deadwood Road Cut 22.0m	280
Deadwood Road Cut 28.0m	nd
Deadwood Road Cut 32.0m	15
Deadwood Road Cut 36.0m	20
Deadwood Road Cut 49.0m	nd
Deadwood Road Cut 61.0m	40
Deadwood Road Cut 73.0m	45
Deadwood Road Cut 87.0m	nd
Deadwood Road Cut 100.0m	nd
Deadwood Road Cut 120.0m	nd
Hillside Qtz Grab	40
Inside Stope	40
Stope Grab	300
No Name	70

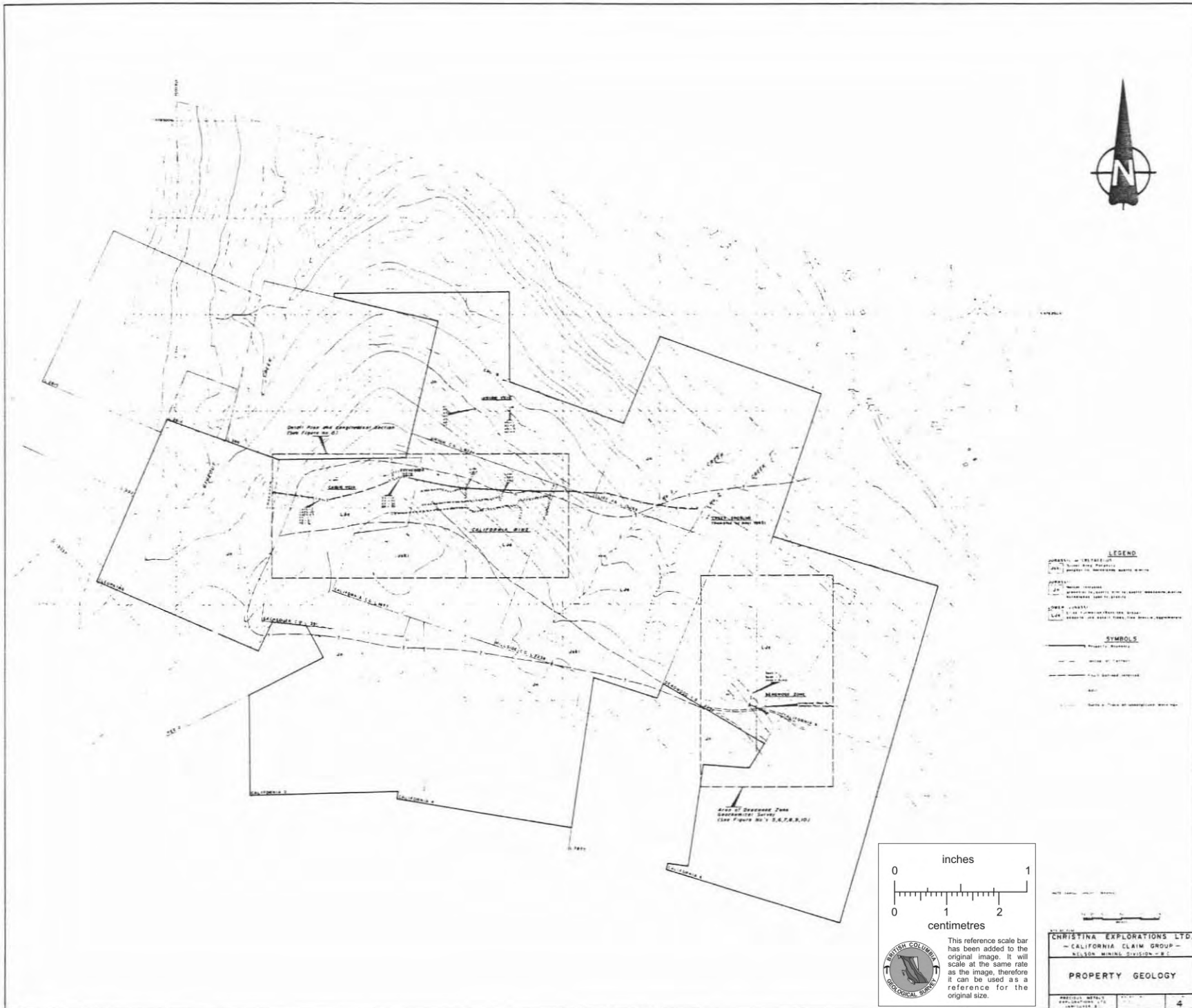
DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample



LEGEND

--- Boundary

--- Survey

--- Contour

--- Road

--- Water

--- Other

SYMBOLS

--- Property Boundary

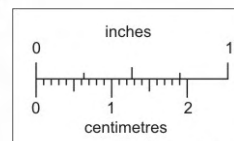
--- Survey

--- Contour

--- Road

--- Water

--- Other



BRITISH COLUMBIA
GEOLOGICAL SURVEY

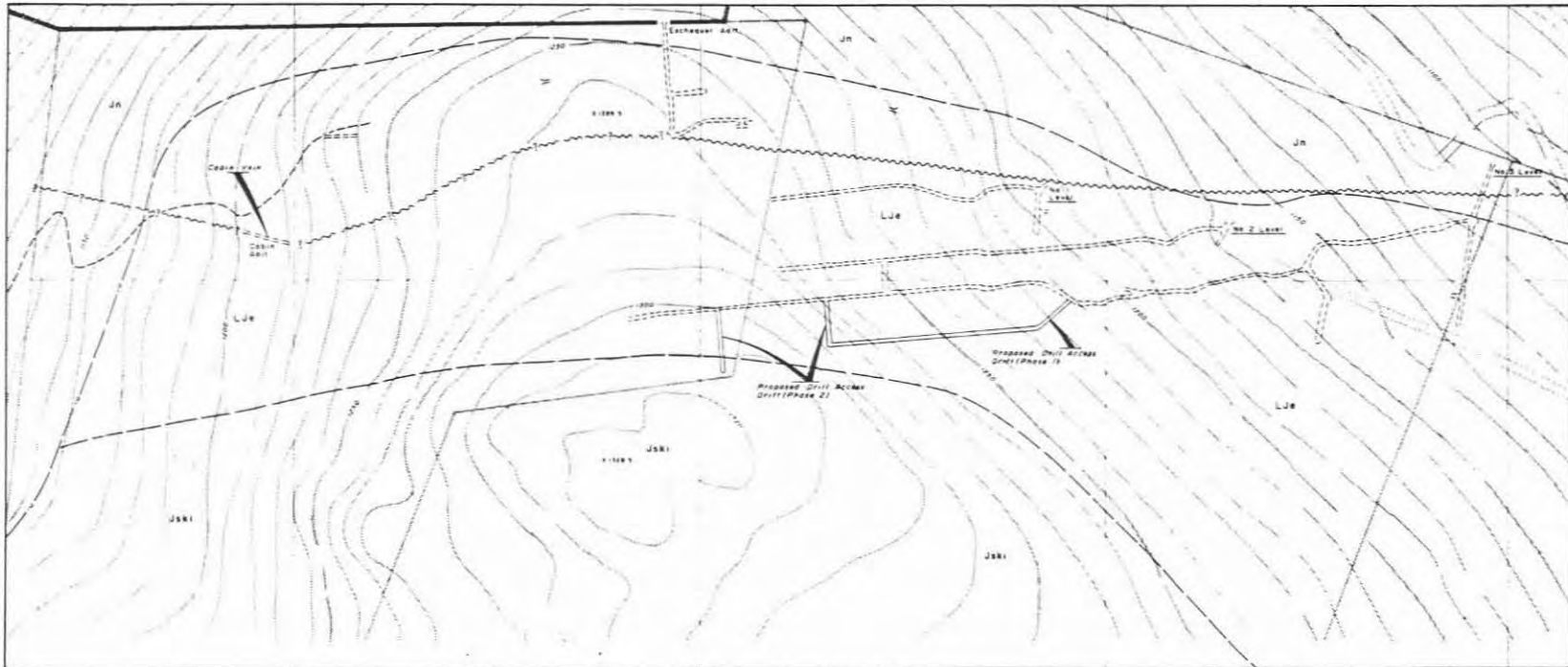
This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

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PROPERTY GEOLOGY

PROJECT NO.	DATE	SCALE

4

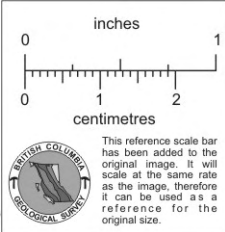
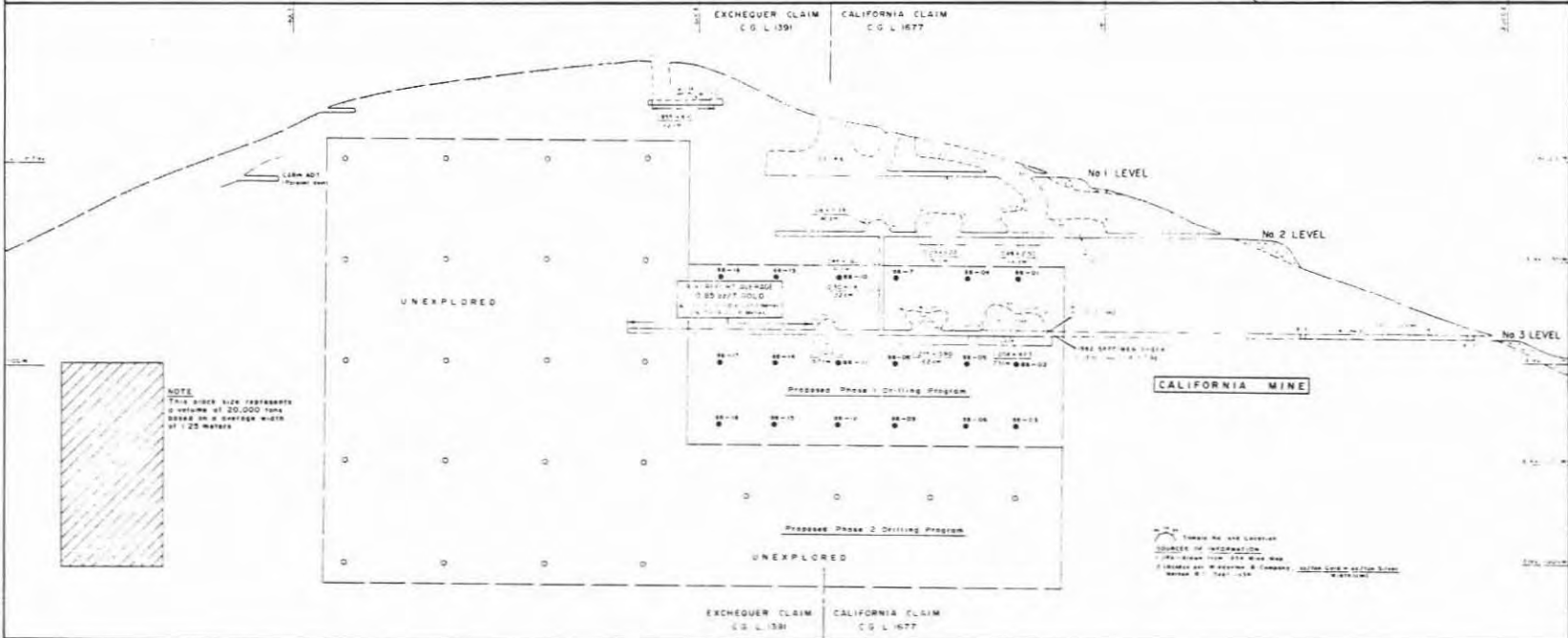


LEGEND

- JURASSIC or CRETACEOUS**
JSK Green King Schist
 granodiorite, hornblende quartz diorite
- JURASSIC**
JN Weldon Intrusion
 granodiorite, quartz diorite, quartz monzonite, diorite
 hornblende granite, granite
- LOWER JURASSIC**
LJR Five Formations (Hessland Group)
 gneiss and basal flows, flow breccia, agglomerate

SYMBOLS

- Property Boundary
- Geological Contact
- ~ Fault Delineation, inferred
- Adit
- Surface Trace of Underground Workings



NOTE
 This block size represents
 a volume of 20,000 tons
 based on a average width
 of 1.25 meters

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**LONGITUDINAL SECTION
 OF
 CALIFORNIA MINE**

PRECIOUS METALS
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 VANCOUVER, B.C.