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**DIAMOND DRILLING
REPORT**

THE LUMBY PROPERTY

VERNON MINING DIVISION, B.C.

D.D. HOLE Z90-1

ON THE BS-3 CLAIM

PREPARED FOR:

ZICTON GOLD LIMITED
602-543 Granville Street
Vancouver, B.C.
V6C 1X8

BY:

Alfred R. Allen, P.Eng.,
ALLEN GEOLOGICAL ENGINEERING LTD.
827 West Pender Street
Vancouver, B.C.
V6C 3G8

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VANCOUVER, B.C.

DATED: SEPTEMBER 1990

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,385

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No. 1		
ZICTON GOLD LIMITED		
LOCATION MAP		
ALLEN GEOLOGICAL ENGINEERING LTD.		
per <i>Alfred R. Allen</i>		
Alfred R. Allen, P.Eng.		
Drawn by A.R.A.	Date 15/8/90	Scale 1" = 136 Mi.

A. INTRODUCTION

The site selected for diamond drill hole Z90-1 is collared in the northeast area of the BS-3 mineral claim, and directed 180° at -60°. The NQ core recovery is estimated at 90% for the full 194.0 m. It was drilled to check anomalies recorded from previous work done on this property and the adjoining Quinto Mining property.

B. LOCATION

The BS-3 claim is located adjacent to the east boundary of the Quinto property, 1.7 km east of the village of Lumby in the northern Okanagan region of British Columbia.

C. PROPERTY

Zicton Gold Limited holds the following adjoining located mineral claims in good standing:

Claim	Record No.		Expiry Date
HOL 1	2130	20 units	7/3/91
HOL 2	2131	20 units	7/3/91
HOL 3	2132	20 units	7/3/91
HOL 4	2133	20 units	7/3/91
BS-3	2004	20 units	2/28/92

D. PHYSIOGRAPHY

Lumby is located at the base of the broad southwest ridge of Saddle Mountain, at an elevation of 500 m. above sea level. The ridge slopes are precipitous with irregular areas of exposed bedrock up to the 950 metre level.

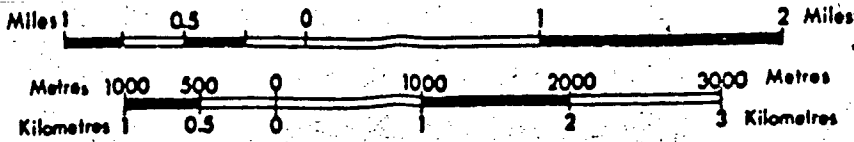
Eastern and northeastern areas include agricultural land and grazing pastures. Rawlings Lake is located on the Hol 2 claim at the valley level below the high rounded hills on the northeast corner of the property.

E. HISTORY

Gold and silver mineralized veins were first discovered on Saddle Mountain in the early 1900's.

A gold and silver bearing shear zone was brought into production at 50 tons per day by the Chaput family of Lumby and later increased to 150 tons per day. Production from 1975-1981 was estimated between 30,000 and 40,000 tons. Concentrate was treated by Cominco at Trail.

Quinto Mining Corporation acquired the mine and mill in 1983, and have since staked additional mineral claims, conducted surface and underground exploration and development, with the object of renewing precious metals production in addition to graphite.



D-BES 2025 (10)
55x4W

D-BES 2033 (10)
25x4W

KAREN 3 C 2036 (10)	KAREN 4 C 2037 (10)
KAREN 2035 (10)	KAREN 2035 (10)

P.S. 5 2010 (9)
55x4W

P.S. 6 2011 (9)
55x4E

DK-1 2137 (7)
4N x 3E

OK 2016 (9)
5N x 4W

HAZ 5 1845 (7)
(55 x 2W)

P.S. 3 2008 (9)
55x4W

P.S. 4 2009 (9)
55x4E

No. 2

ZICTON GOLD LIMITED
MINERAL CLAIMS AND
ADJOINING QUINTO CLAIMS

ALLEN GEOLOGICAL ENGINEERING LTD.
per *Alfred R. Allen*
Alfred R. Allen, P.Eng.

Drawn by A.R.A.	Date 15/8/90	Scale 1:50,000
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B.S. 5 2006 (9)
55x4W

B.S. 4 2005 (9)
55x4W

P.S. 2 2007 (9)
55x4E

P.S. 7 2012 (9)
55x3W

HOL 1 2130 (7)
5N x 4W

HOL 2 2131 (7)
5N x 4E

Creek

B.S. 1 2002 (9)
5N x 4W

WHITE VALLE

Lumby

B.S. 2 2003 (9)
5N x 4E

QUIN 1936 (3)
29781 (25x44)

B.S. 3 2004 (9)
5N x 4W

SPRINGS

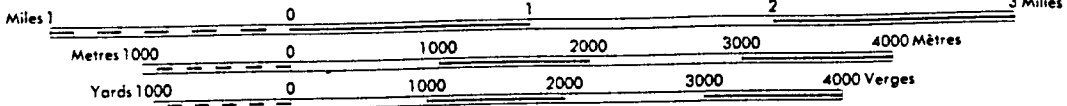
HOL 4 2133 (7)
55x4W

HOL 3 2132 (7)
55x4E

Raw L.

Blue Spr

Scale 1:50,000 Échelle

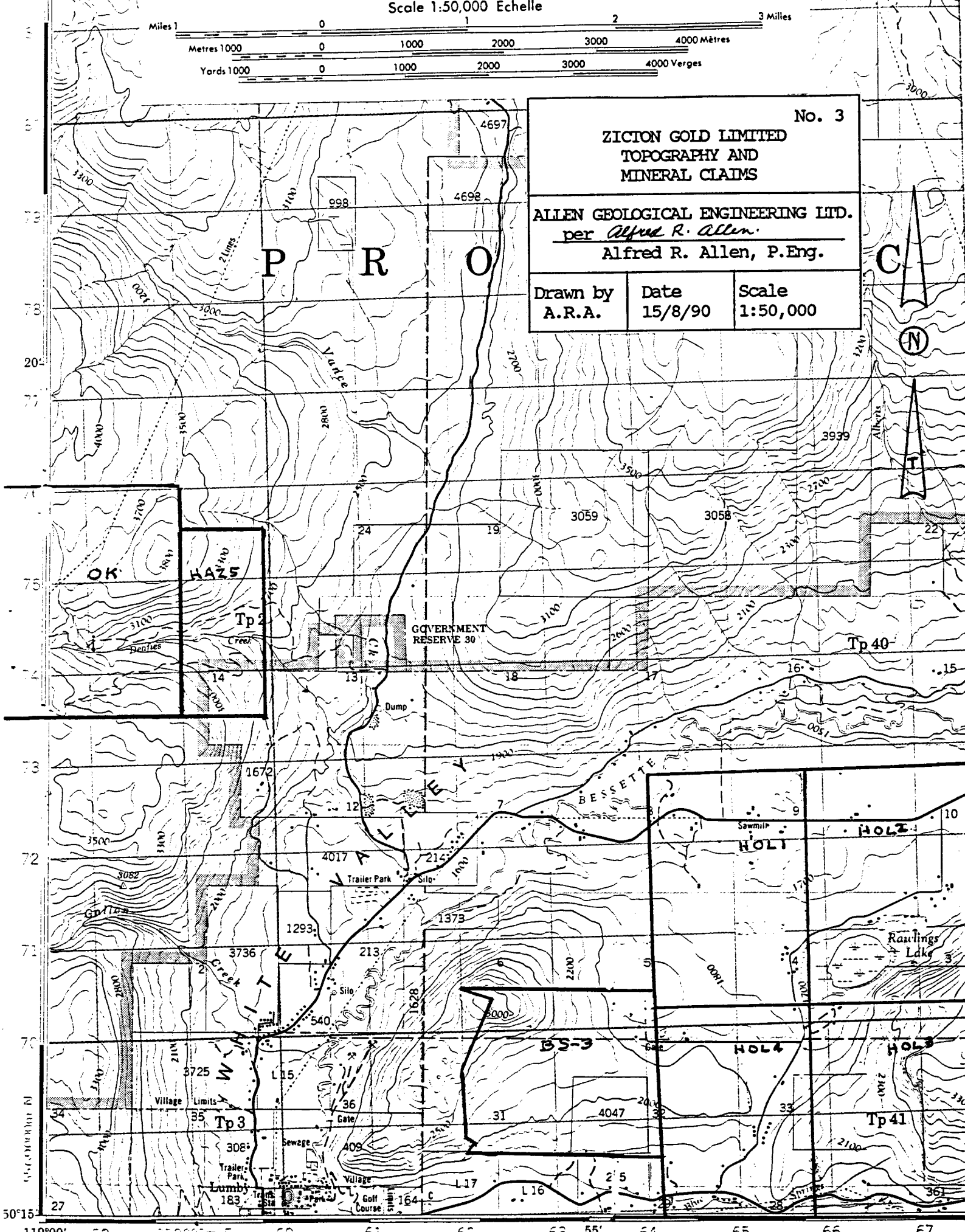


No. 3

**ZICTON GOLD LIMITED
 TOPOGRAPHY AND
 MINERAL CLAIMS**

ALLEN GEOLOGICAL ENGINEERING LTD.
per Alfred R. Allen.
 Alfred R. Allen, P.Eng.

Drawn by A.R.A.	Date 15/8/90	Scale 1:50,000
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119°00' 58 59 00' E. 60 61 62 63 55' 64 65 66 67
 Vernon 26 km

Zicton Gold Corporation claims include the BS-3 and Hol 1-4, located on the east boundary, and the OK and Haz #5, four kilometers to the northwest of the Quinto property.

East-West mineralized zones, similar in attitude, host rocks and mineralization as the Quinto showings, have been indicated by geophysical surveys, stripping and diamond drilling.

F. THEORY

Current exploration on the Zicton Gold property has confirmed eastern extension of similar geology, structure and mineralized shear zones, as are now being developed on the Quinto property.

G. GEOLOGY

Regional

The Lumby area is underlain by the Upper Triassic Sicamous formation of the Slocan Group, including siltstone, argillite, limestone, shale, greenstone conglomerate, tuff, chloritic phyllite, calcareous pelite, and andalusite - staurolite and kyanite schists. elite, minor conglomerate, limestone, greenstone, chloritic phyllite and andalusite-staurolite and kyanite schists.

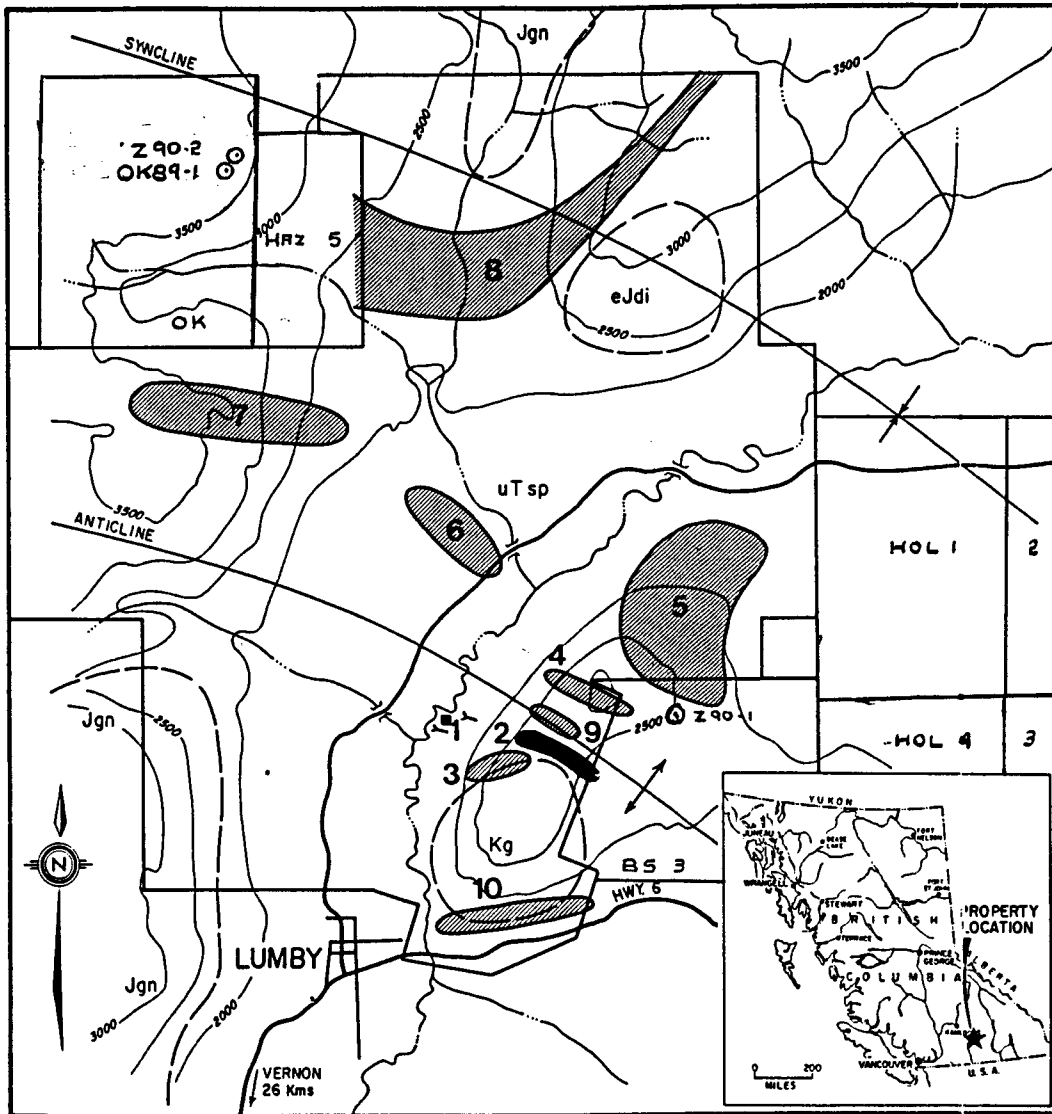
Intrusives include early Jurassic diorite 2.4 km. north of Lumby, Cretaceous granodiorite exposed on the south half of Saddle Mountain and late Jurassic outcrops form the ridge northwest of Lumby.

The intrusives are unconformably overlain by directed sheets of Tertiary Kamloops volcanics. West-northwest folds extend across the area. Major faults include four striking north, three northwest and one northeast.

BS-3 Claim Area

The BS-3 claim is located adjacent to the southeast boundary of the Quinto Mining Corporation Chaput mineral claims.

Outcrops are limited to minor scattered exposures on roadways and small rock bluffs. Overburden is 5 to 7 metres with a coarse grass cover, and evergreen patches at upper elevations. Bedrock includes fine grained limey argillite, quartz veins and pyrite. Black fine grained argillite, graphite, quartz veinlets and pyrite is interbedded with grey crystalline tuff. Copper staining is evident.



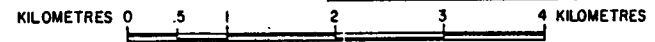
LEGEND

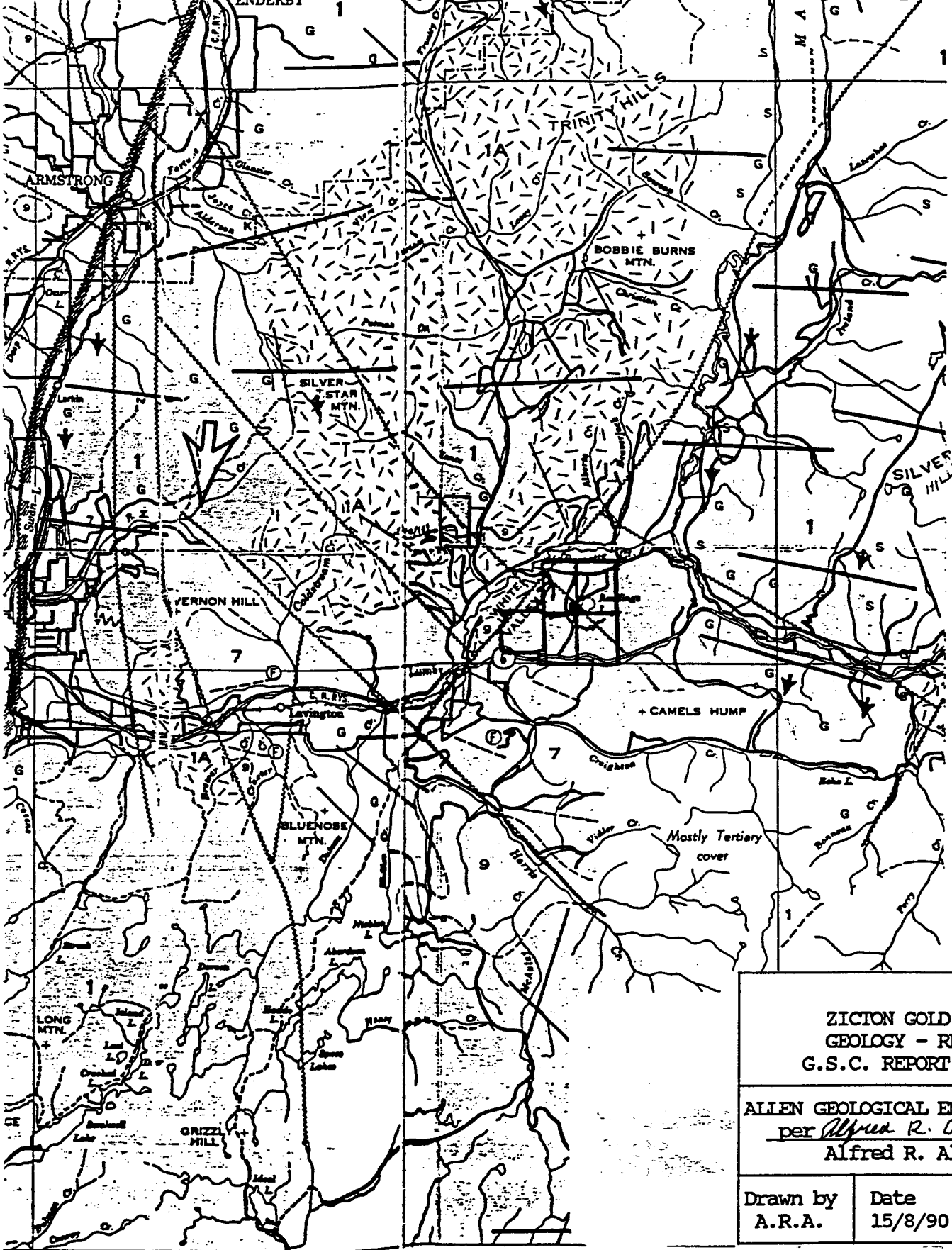
- ADITS, MILL
- TARGET ZONE
- 1 MINE ZONE; Ag, Pb, Zn, Cu, Au VEINS
- 2 PLATEAU ZONE; Au VEINS, PROPOSED MINING
- 3 CONTACT ZONE; Ag-Au VEIN, Au SOIL ANOMALY
- 4 CLIFF ZONE; Au VEINS, Au SOIL, 3ROUND/AIRBORNE VLF/EM ANOMALY
- 5 SADDLE NORTH ZONE; AIRBORNE EM ANOMALY
- 6 COOPER'S ZONE; 10-30 m WIDE QUARTZ/SULPHIDE VEIN
- 7 DEAFIES ZONE; AIRBORNE VLF ANOMALY
- 8 VANCE ZONE; AIRBORNE EM ANOMALY
- 9 SADDLE ZONE; Au SOIL, GROUND EM ANOMALY, Au FLOAT
- 10 TEACHERS ZONE; Zn, As, Ag, Au VEINS, Au SOIL, AIRBORNE VLF ANOM.

GEOLOGY

- GRANODIORITE
- GRANITE, QUARTZ MONZONITE
- DIORITE
- VOLCANICS AND SEDIMENTS

No. 4		
ZICTON GOLD LIMITED GEOLOGY GEOPHYSICAL ANOMALIES D.D. HOLES Z90-1		
ALLEN GEOLOGICAL ENGINEERING LTD. <i>per Alfred R. Allen</i> Alfred R. Allen, P.Eng.		
Drawn by A.R.A.	Date 15/8/90	Scale 1:50,000





No. 5		
ZICTON GOLD LIMITED GEOLOGY - REGIONAL G.S.C. REPORT MEM. 296		
ALLEN GEOLOGICAL ENGINEERING LTD. <i>per Alfred R. Allen</i> Alfred R. Allen, P.Eng.		
Drawn by A.R.A.	Date 15/8/90	Scale 1" - 4 mi.

15

111.10

45

Vernon map-area, British Columbia, showing also distribution of Shuswap :

Scale : One Inch to Four Miles = $\frac{1}{253,440}$

QUATERNARY
PLEISTOCENE AND RECENT **LEGEND**

CENOZOIC

21

Glacial, lacustrine, and fluvial gravel, sand, silt, and clay

20

TERTIARY
OLIGOCENE OR MIOCENE
KAMLOOPS GROUP
Basaltic lava and flow breccia; minor rhyolitic lava and breccia; local sandstone, shale, conglomerate; coal

19

CRETACEOUS OR TERTIARY
Pink to red syenite and quartz syenite; pink and white mottled granite

18

JURASSIC AND/OR CRETACEOUS
COAST INTRUSIONS
Granite, granodiorite and allied rocks

MESOZOIC

17

TRIASSIC
UPPER TRIASSIC
NICOLA GROUP
Andesite; minor basalt; some limestone and conglomerate

16

(?) LOWER AND/OR UPPER TRIASSIC
SLOCAN GROUP
Slate, quartzite, limestone; phyllite, mica schist; may be in part equivalent to 17

PALÆOZOIC

15

CARBONIFEROUS (?) AND PERMIAN
CACHE CREEK GROUP (13-15)
DIVISION C: mainly limestone; minor argillite, quartzite, and andesite lava, breccia, and tuff

14

DIVISION B: mainly andesite lava and tuff; minor argillite, quartzite and limestone

13

DIVISION A: mainly argillite

PROTEROZOIC AND/OR PALÆOZOIC

12

WINDERMERE (?) OR EARLY PALÆOZOIC
Argillite, phyllite, schist, quartzite, limestone, conglomerate

11

WINDERMERE (?) OR CAMBRIAN
BADSHOT FORMATION *limestone and marble; minor argillite*

10

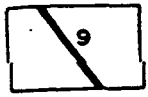
WINDERMERE OR (?) CAMBRIAN
HAMILL SERIES
Quartzite, staurolite schist, argillite, phyllite; minor limestone

9

WINDERMERE OR EARLIER
OLD DAVE INTRUSIONS *serpentinized, ultramafic dykes*

PROTERO

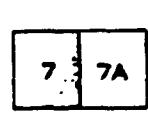
WINDERMERE OR EARLIER



OLD DAVE INTRUSIONS: serpentized, ultramafic dykes

SHUSWAP TERRANE

ARCHAËAN OR LATER



MOUNT IDA GROUP (1-7)
 EAGLE BAY FORMATION: chlorite and sericite schist, slate, limestone, quartzite; minor conglomerate
 7A. Predominantly limestone



SICAMOUS FORMATION: flaggy limestone, sericite schist, graphite schist



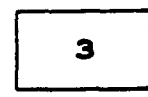
MARA FORMATION: argillite, slate, sericite and chlorite schist, limestone



CHAPPERON GROUP
 Argillite, chlorite schist, mica schist; quartzite, limestone. May be equivalent to Mount Ida group, in part



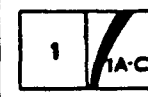
TSALKOM FORMATION: green andesite and agglomerate, chlorite schist, slate



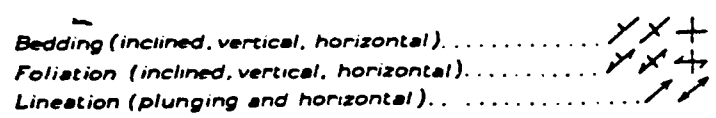
SILVER CREEK FORMATION: slate, sericite schist, garnetiferous quartz-mica schist



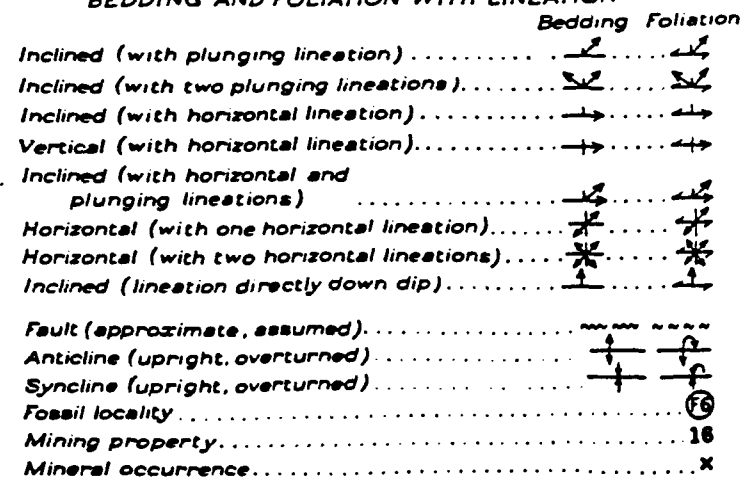
CHASE FORMATION: quartzite calcareous quartzite; garnetiferous quartz-mica schist



MONASHEE GROUP
 1. Granitoid gneiss, eugen gneiss, mica-sillimanite-garnet schist; quartzite, marble, hornblende gneiss, slate phyllite
 1A. Limestone
 1B. Quartzite
 1C. Hornblende gneiss



BEDDING AND FOLIATION WITH LINEATION



Geology by H.M.A. Rice, 1945, 1946, and by A.G. Jones, 1947-1951

To accompany G.S.C. Memoir 296 by A.G. Jones

Cartography by the Geological Survey of Canada, 1959

Mineralized Shear Zones

At and near the west boundary of the BS-3 claim and the Quinto property mineralized veins have been detected as follows:

- #1 The Mine Zone: mined and milled \pm 30,000 tons (estimated 1974-1981) Ag, Pb, Zn, Cu, Au, Veins.
- #2 The Plateau Zone: probable extension of the mine zone with Au veins and graphite.
- #3 The Contact Zone: Ag and Au Veins, Au soil
- #4 The Cliff Zone: Au veins, Au soil
- #9 The Saddle Zone: Au soil, Au Float
- #10 The Teachers Zone: Zn, As, Ag, Au veins, Au soil

Several of these mineral deposits have been located striking easterly onto the BS-3 claim by an MP 2 magnetic survey, a Ronka 16 EM (VLF) survey and a Ronka 16 EM (In Phase) survey.

H. PREVIOUS WORK

The local property owners of the Chaput Group of claims developed the mine zone, and operated from 1960-1982. Production reportedly totalled between 20,000 and 40,000 tons. In 1983 the property and mill were acquired by Quinto Mining Corporation. Since then additional claims have been staked and reserves are outlined by an active exploration and development program.

I. OBJECT OF THE DRILLING

The Z90-1 diamond drill hole is located in the northeast area of the BS-3 claim in order to check the source of anomalous mineralization.

J. DIAMOND DRILLING

The purpose of the hole was to acquire samples of the #1 westerly striking anomalous zone. The hole was directed at 180 degrees at -60 degrees. The NQ core recovery was 90% for the full 194 metres of hole.

The core was logged and sampled by the writer, on the property June 7th to 12th, 1990. Site preparation and the drilling was contracted with Newmac Industries Ltd., Kamloops, B.C.

K. DRILLING RESULTS

Beneath 5.79 metres of overburden is 47.2 metres of Siliceous tuff, disseminated sulphides, grey green coating and fine pyrite. Throughout the next 41.0 metres is light grey weathered argillite, quartz veins in contact with black argillite, sulphides in fractures, light grey argillite, limey, calcite veins and black argillite, pyrite with an increase in fine sulphides. There is 45.0 metres with black argillite, pyrite, siliceous grey tuff, light grey crystalline tuff, more black argillite with grey

tuff, disseminated pyrite and fine conglomerite finishing with black argillite and irregular quartz stringers. The final 49.0 metres starts with black argillite, cubic pyrite, thinly bedded, grey tuff, narrow quartz veins, black argillite with increased pyrite, grained sandstone, light grey argillite, limey, folded pink quartz, and disseminated pyrite, pyrrhetite and fine pyrite.

L. DISCUSSION

The 1989 geophysical survey and the current diamond drilling results over the BS-3 claim have confirmed the theory that the mineralized vein deposits under development on the adjoining Quinto Mining Corporation property extend easterly across the BS-3 claim.

M. RECOMMENDATION

It is therefore concluded that exploration and development of the Zicton Gold holdings is warranted and herewith recommended.

Submitted by:

ALLEN GEOLOGICAL ENGINEERING LTD.

Per Alfred R. Allen.
Alfred R. Allen, P.Eng.

September 15, 1990

REFERENCES

- Jones, A.G., G.S.C. Mem. 296, Vernon Map Area
- Landsberg, N.R., Geology, Geophysics, Geochemistry, Trenching, Nov 24, 1983
- White, Glen E. Vector Plus Electromagnetic Survey, Chap 8 (BS3 Claim) '84
- Kuran, D.L. Assessment Report BS & PS Claims Groups, Vernon M.D., '86
- Kuran, D.L. Lumby Project, Lumby, B.C., Vernon M.D., NTS 82L/7W Phase III Exploration May 1, 1987. Quinto Mining Corporation.
- Okulitch, A.V., et al G.Sc. Paper 637 5 sheets May, 1987
- Smith, P.A. et al., Airborne Survey Mag. and E.M. Quinto Mining Corp., Lumby Project, Dighem Surveys & Processing Inc. of Mississauga, Ont., October '86
- Allen, A.R. The Lumby Property, Vernon M.D., Zedco Petroleums Ltd., July 1984
- Allen, A.R., Magnetometer and Electromagnetic Surveys, Zicton Gold Ltd., July 1987
- Allen, A.R. Magnetometer and Electromagnetic Surveys, #2 Zicton Gold Ltd., June 1988
- Allen, A.R. The Lumby Property, Vernon M.D., B.C., Zicton Gold Ltd., May 1987 (revised)
- Allen, A.R. The Lumby Property-Diamond Drilling Report Zicton Gold Ltd., August 1990 OK & HAZ 5 Claims
- Allen, A.R. The Lumby Property-Diamond Drilling Report Zicton Gold Ltd., August 1990, BS-3 Claim

COSTS STATEMENT

ZICTON GOLD LIMITED
DIAMOND DRILLING CONTRACT

<u>DATES</u>	Start June 7/90 Finish June 11/90	
<u>HOLE</u>	Z90-1	
<u>LOCATION</u>	BS-3 Mineral Claim	
<u>DIRECTION</u>	Azimuth 180° at - 60°	
<u>LENGTH</u>	194 Metres Core NQ	
<u>EQUIPMENT</u>	Bulldozer: Case 11 Drill: Longyear Super 38 Truck: Ford 3/4 ton flatdeck and trailer	
<u>CREW</u>	James MacNeill, Driller Aaron MacNeill, Helper John Hilton, Coordinator	
<u>COSTS</u>	Diamond Drilling 194 metres	
	@ \$59 per metre	\$11,446.00
	Road and site preparation	363.00
	Mob and demob	500.00
	Travel	422.00
	Accommodation and meals	700.00
	Core Boxes	161.00
	Consulting: Alfred R. Allen	<u>2,725.00</u>
		<u>\$16,317.00</u>

CERTIFICATE

5383 Nancy Green Way,
North Vancouver, B.C., V7R 4N2

August 15, 1990

I, Alfred R. Allen, certify that:

I am a graduate of the University of British Columbia and hold the following degrees therefrom:

B.A.Sc., Geological Engineering, 1939
M.A.Sc., Geological Engineering, 1941

I am a Life Member of the Association of Professional Engineers of the Province of British Columbia.

I have practised my profession for the past 50 years.

I hold no interest in the property or securities of Zicton Gold Limited or affiliates thereof, nor do I expect to receive any, directly or indirectly.

The report on the Lumby Property, Vernon Mining Division, B.C., is based on examinations of the property by the writer on June 7-14, 1990.

Alfred R. Allen.

Alfred R. Allen, P.Eng.

September 1990

The British Columbia Securities Commission
Vancouver, B.C.

Dear Sirs:

Re: Zicton Gold Limited

I hereby consent to the use of my report of July, 1989 on the Lumby Property, Vernon Mining Division, B.C. in any prospectus or statement of material facts or other material to be filed with the British Columbia Securities Commission, or the Vancouver Stock Exchange by Zicton Gold Limited.

Yours truly,

ALLEN GEOLOGICAL ENGINEERING LTD.

Per:

Alfred R. Allen P.Eng.
Alfred R. Allen

Zictonrfr\Allen

APPENDIX

• Diamond Drill Record

• Laboratory Assay Certificate

