

CHRISTMAS PROPERTY

GEOLOGY AND GEOCHEMISTRY

CHRISTMAS #1-#4 MINERAL CLAIMS

CLINTON MINING DIVISION

NTS 92P/15W

LATITUDE 51° 53' N LONGITUDE 120° 46' W

DATES OF WORK: Oct. 1-Dec. 15, 1983

OWNER E & B EXPLORATIONS INC.

OPERATOR JMT SERVICES CORP.

WRITTEN BY GORDON G. RICHARDS, P.Eng.

DATE March 9, 1984.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,138

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LIST OF ILLUSTRATIONS

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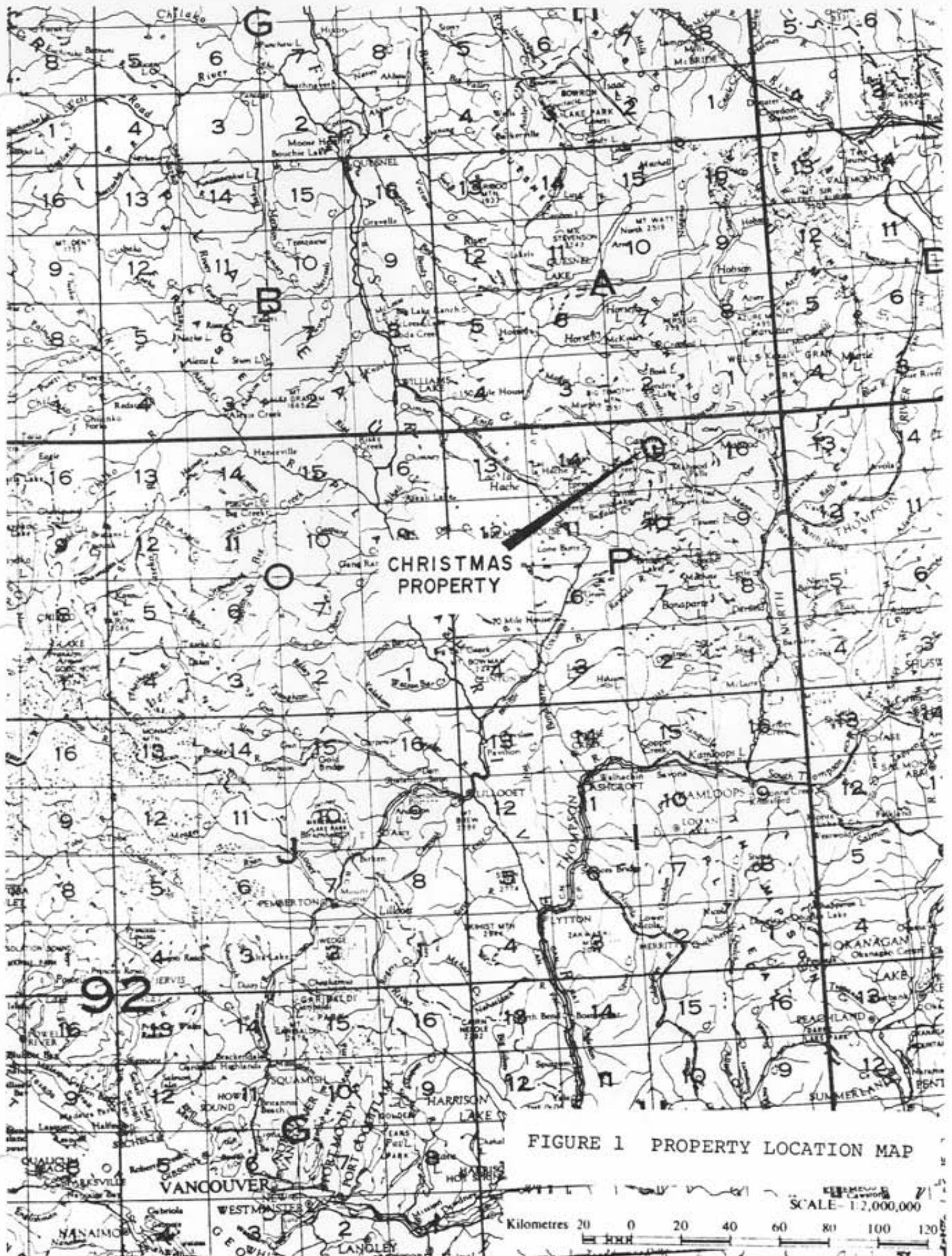
INTRODUCTION

Field examination of an old Cu-Au occurrence shown on a B.C. Department of Mines mineral inventory map south of Christmas Lake located several old diamond drill holes in an area of volcanics intruded by quartz diorite. Several rock chips of pyrite-pyrrhotite mineralized hornfels were anomalous for gold with the higher value of 1480 ppb Au. A more thorough second examination yielded results as high as 6290 ppb Au in the same area. None of the rocks and soils were anomalous for arsenic as the highest value was 12 ppm As. Four claims totalling 68 units were staked February 6, 1983.

In the fall of 1983 a grid was completed on part of the hill containing the favorable geology, anomalous gold results and old diamond drill sites. A few reconnaissance traverses were also conducted at this time. A total of 223 samples were collected of which 82 were rock chips and 141 were soil samples. Preliminary geological mapping indicates areas of anomalous gold geochemistry occur in hornfelsed volcanic rocks adjacent to the northeast contact of a diorite plug or stock. More soil sampling and mapping are required prior to a percussion drill program.

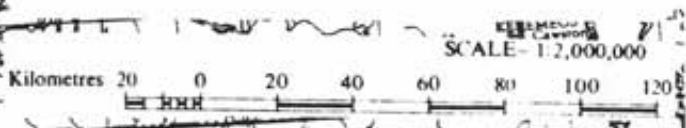
LOCATION AND ACCESS

The property is located 6 km northeast of Eagle Creek on the north shore of Canim Lake. Access can be made by paved road from 100 Mile House to Eagle Creek and then by 6 km of good gravel road to Christmas Lake. Secondary dirt roads provide access throughout much of the property.



CHRISTMAS PROPERTY

FIGURE 1 PROPERTY LOCATION MAP



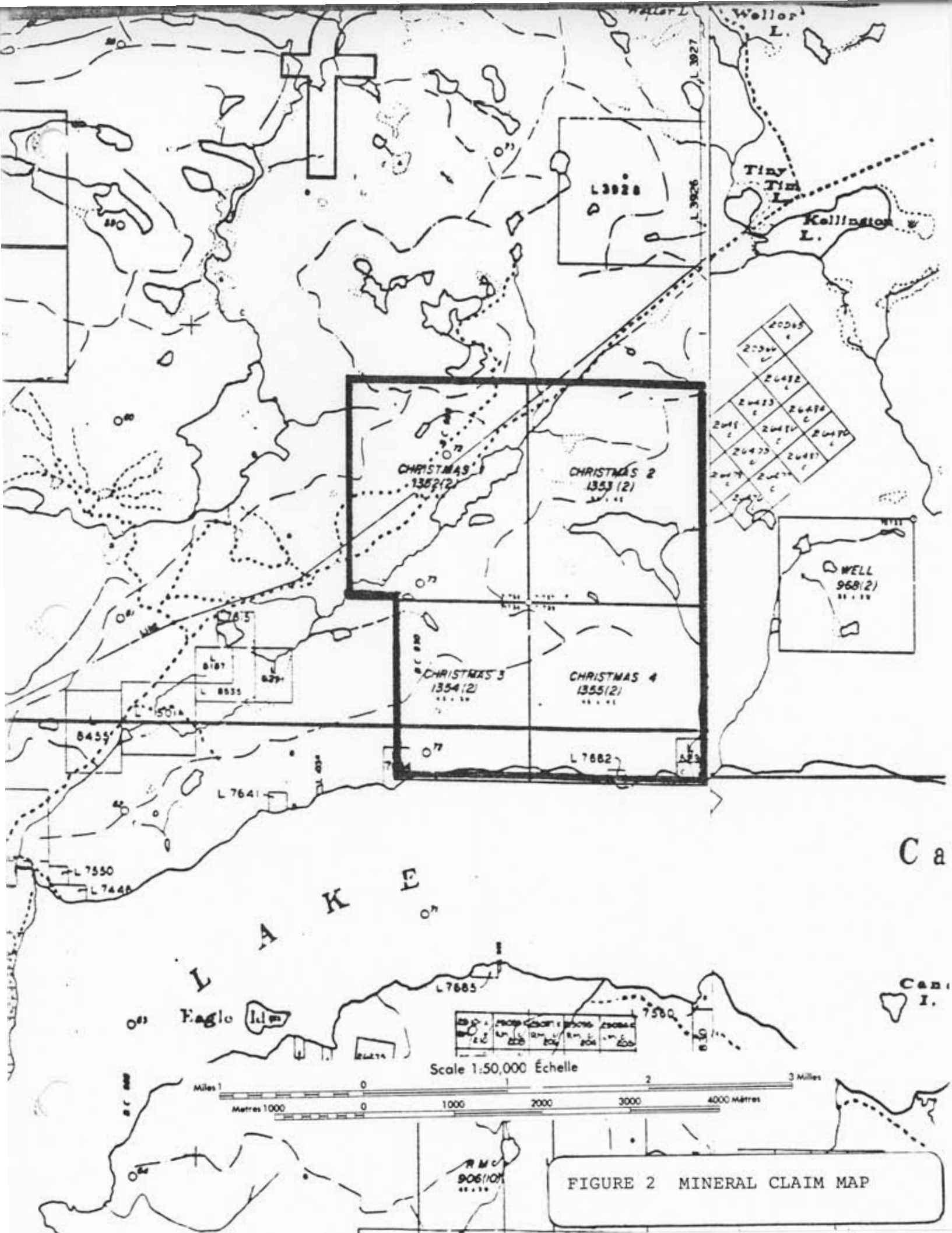


FIGURE 2 MINERAL CLAIM MAP

MINERAL CLAIMS

The property consists of the four claims listed below:

Name	Units	Record No.	Record Date	Owner
CHRISTMAS #1	20	1352(2)	Feb. 25/83	E & B EXPLORATIONS INC.
CHRISTMAS #2	20	1353(2)	Feb. 25/83	E & B EXPLORATIONS INC.
CHRISTMAS #3	12	1354(2)	Feb. 25/83	E & B EXPLORATIONS INC.
CHRISTMAS #4	16	1355(2)	Feb. 25/83	E & B EXPLORATIONS INC.

GEOLOGY

Green andesites, tuffs and sediments are intruded by a diorite plug of unknown dimension. The intrusion outcrops on the hill south of the Legal Corner Post and appears to have been only partially unroofed as abundant xenoliths and roof pendants seem to occur within the intrusion. A numerous hornfels aureole extends outwards up to one or two kilometers from diorite outcrops. Sulphide content consisting of pyrite and pyrrhotite is generally less than one or two percent but local zones of two to ten percent sulphide do occur. High gold values described below have been obtained from these local high-sulphide hornfels areas. Disseminated chalcopyrite with pyrite and pyrrhotite was noted in an old trench about 300 m southeast of the Legal Corner Post, near Z1689. Old workings are evident on the property including dumped A-size diamond drill core, numerous tractor trenches and roads, and an I.P. survey on the flat ground to the east. This work is believed to be at least ten years old. The most recent previous staking recognized in the field was in 1971. The B.C. Department of Mines mineral inventory map shows a Cu-Au occurrence on the property near the area of the old workings. Strong carbonate alteration with up to three percent pyrite occurs in a 100 m

wide zone along the main road north of Christmas Lake. Its attitude is unknown.

GEOCHEMISTRY

The geochemical sampling described in this report was undertaken to evaluate the area of high Au geochemical results and diamond drill sites noted previously. The sample locations and results are shown on Figure 3. Rock chip samples were taken where appropriate from outcrops and float containing sulphide mineralization. Rock chip samples were made from 3 to 10 rock chips, small enough to fit into standard gusset kraft sample bags. Soil samples were collected on a 50 m x 50 m grid from the B Horizon with metal scoops. Gold analyses were done on the minus 80 mesh fraction by Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver, B.C., using Neutron Activation Analysis.

Results indicate three large areas of greater than 9 ppb Au with many contained samples of much more anomalous values. Two of these areas are completely contained within the geochemical and the third and largest area is open to the west and north of the grid. The southern central anomalous area contains the outcrops that yielded the highly anomalous Au values mentioned in the Introduction. These samples were collected along the road cut on both sides of R1383 from outcrop and angular float. Although several samples were greater than 1000 ppb Au (B1576 - 1480 ppb Au; B1763 - 1880 ppb Au; B1769 - 1220 ppb Au; B1775 - 6290 ppb Au), most rock chip samples from this area were in the 210 - 500 ppb Au range. No control of higher values has been made and the low

percentage of outcrop in the area makes drilling or trenching necessary to properly evaluate the immediate potential.

AX size drill core found in overturned rotting core boxes at an old camp near Z1697 was sampled. Results are listed below:

Sample No.	Sample Interval	% of core Sampled	Rock type	Sulphide	Au (ppb)
R1464	8'	50%	Hornfels sed	1%-7%	9
1465	8'	50%	Hornfels sed	1%	9
1466	8'	50%	Hornfels sed	1%	4
1467	24'	10%	Diorite	2%	210
1468	24'	10%	Diorite	2%	145
1469	24'	10%	Dark hornfels	2%	360
1470	24'	10%	Diorite	2%	150

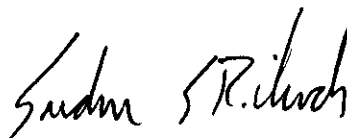
CONCLUSIONS AND RECOMMENDATIONS

Andesite flows, dykes, tuffs and sediments have been intruded by a diorite complex of unknown dimensions. Hornfelsing with associated 1-15% pyrite-pyrrhotite mineralization occurs up to at least 500 m from the intrusive contact. Three zones of anomalous gold in soils (79 ppb Au) occur over the area surveyed principally in areas underlain by hornfels adjacent or close to the diorite intrusion. Numerous samples within the anomalous areas exceed 50 ppb Au. One of these anomalous areas contains outcrop and angular float (near R1383) that run as high as 6290 ppb Au. A second anomalous area to the east contains no outcrop but is 450 m long by 50-100 m wide. The third anomalous area is the largest and is open to the north and west. Old diamond drill core was sampled and yielded several intervals in the 100-400 ppb Au range.

More soil sampling and mapping should be done to limit the extent of the third anomalous area mentioned above and search for more

zones of anomalous gold along the northeast contact of the diorite. Percussion drilling should then be done over the areas of anomalous Au geochemistry. Induced polarization surveys may be warranted prior to drilling.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Gordon G. Richards".

Gordon G. Richards, P.Eng.

STATEMENT OF COSTS

JMT Invoice 83-240-091	\$ 4,830.92
Report: writing, typing, map preparation, draughting, reproductions	<u>2,000.00</u>
Total	\$ <u>6,830.92</u>

JMT Services Corp.

8827 HUDSON STREET · VANCOUVER, B.C. V6P 4N1 · TELEPHONE 266-1811



December 21, 1983.

Mr. P.M. McAndless
Senior Geologist
E & B Explorations Inc.
#1440-800 West Pender Street
VANCOUVER, B.C.

JAMES S. CHRISTIE, PhD 228-8054
K. WAYNE LIVINGSTONE, MSc 266-4208
GORDON G. RICHARDS, M.A.Sc., P.Eng. 274-2839
GERALD LAUZON, Mgr. 277-4778
W.A. HOWELL, Geol. 277-7082

INVOICE NO. #83-240-091

Dear Pat:

RE: CHRISTMAS Prospect

Following is a bill for some costs incurred on the CHRISTMAS claim, relating to assessment work:

TIME

D. Bennett	Oct. 18, 26, Nov. 7	2½ days @ \$175.	\$ 437.50
K.W. Livingstone	" 25, 26	1½ " @ \$225	337.50
W. Howell	Nov. 7, 18	1½ " @ \$225	337.50
G.G. Richards	Oct. 18, 26, Nov. 7	2½ " @ \$225	562.50
M. Hagamoen	Nov. 7	1 day @ \$150	150.00

TRUCK RENTAL - GMC 4x4 -4 days (\$35/day) + 1350 (.13/km) 315.50

DISBURSEMENTS

G. Richards expenses	532.30 + 10%	585.53
Hudson #49725 share	91.15 + 10%	100.27
K.W. Livingstone expenses	290.83 + 10%	319.91
Chemex Labs I 8316287	945.30 + 10%	1,039.83
6288	586.25 + 10%	644.88

\$ 4,830.92

Please remit \$4,830.92.

Yours truly,

James S. Christie,
Geologist

GGR:mh

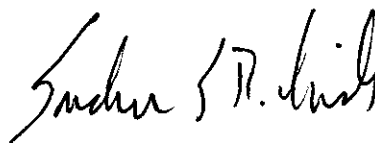
Encls.

Pat
12/24/83

STATEMENT OF QUALIFICATIONS

I, Gordon G. Richards, of Vancouver, British Columbia, do hereby certify that:

1. I am a Professional Engineer of the Province of British Columbia, residing at 6195 Lynas Lane, Richmond, B.C., V7C 3K8.
2. I am a graduate of the University of British Columbia, B.A.Sc., 1968, M.A.Sc. 1974.
3. I have practised my profession as a mining exploration geologist continuously since 1968.
4. This report is based on my personal knowledge of the district, and mapping of the geology at the property.



Gordon G. Richards, P.Eng.

CHRISTMAS
- ASSAYS



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA V7J 2C1
TELEPHONE (604) 984-0221
TELEX 043-52597

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CERTIFICATE OF ANALYSIS

RECEIVED NOV 22 1983

TO : JMT SERVICES CORPORATION

CERT. # : A8316287-001-A
INVOICE # : I8316287
DATE : 22-NOV-83
P.O. # : NONE
CHRISTMAS

8827 HUDSON STREET
VANCOUVER, B.C.
V6B 4N1

Sample description	Prep code	Au NAA ppb						
83B 1123	201	<1	--	--	--	--	--	--
83B 1125	201	305	--	--	--	--	--	--
83B 1126	201	9	--	--	--	--	--	--
83B 1127	201	8	--	--	--	--	--	--
83B 1129	201	4	--	--	--	--	--	--
83B 1131	201	20	--	--	--	--	--	--
83B 1132	201	4	--	--	--	--	--	--
83B 1133	201	59	--	--	--	--	--	--
83B 1134	201	1	--	--	--	--	--	--
83B 1135	201	<1	--	--	--	--	--	--
83B 1136	201	8	--	--	--	--	--	--
83B 1138	201	<1	--	--	--	--	--	--
83B 1140	201	1320	--	--	--	--	--	--
83B 1141	201	16	--	--	--	--	--	--
83B 1142	201	<1	--	--	--	--	--	--
83B 1143	201	<1	--	--	--	--	--	--
83B 1144	201	<1	--	--	--	--	--	--
83B 1145	201	5	--	--	--	--	--	--
83B 1148	201	13	--	--	--	--	--	--
83B 1149	201	3	--	--	--	--	--	--
83B 1150	201	6	--	--	--	--	--	--
83B 1151	201	<1	--	--	--	--	--	--
83B 1152	201	<1	--	--	--	--	--	--
83B 1153	201	4	--	--	--	--	--	--
83B 1154	201	10	--	--	--	--	--	--
83B 1155	201	2	--	--	--	--	--	--
83B 1156	201	39	--	--	--	--	--	--
83B 1157	201	2	--	--	--	--	--	--
83B 1158	201	11	--	--	--	--	--	--
83D 1390	201	3	--	--	--	--	--	--
83D 1392	201	170	--	--	--	--	--	--
83D 1395	201	3	--	--	--	--	--	--
83D 1397	201	8	--	--	--	--	--	--
83D 1400	201	3	--	--	--	--	--	--
83D 1401	201	<1	--	--	--	--	--	--
83D 1402	201	8	--	--	--	--	--	--
83D 1404	201	2	--	--	--	--	--	--
83D 1558	201	30	--	--	--	--	--	--
83D 1559	201	13	--	--	--	--	--	--
83D 1560	201	48	--	--	--	--	--	--



Certified by *Stuart Richler*



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CERT. # : A8316287-002-A
INVOICE # : I8316287
DATE : 22-NOV-83
P.O. # : NONE
CHRISTMAS

Sample description	Prep code	Au NAA ppb						
83D 1562	201	18	--	--	--	--	--	--
83D 1563	201	10	--	--	--	--	--	--
83D 1564	201	3	--	--	--	--	--	--
83D 1565	201	41	--	--	--	--	--	--
83D 1566	201	18	--	--	--	--	--	--
83D 1567	201	49	--	--	--	--	--	--
83D 1568	201	<1	--	--	--	--	--	--
83D 1570	201	18	--	--	--	--	--	--
83D 1571	201	<1	--	--	--	--	--	--
83D 1572	201	210	--	--	--	--	--	--
83D 1573	201	11	--	--	--	--	--	--
83D 1574	201	4	--	--	--	--	--	--
83D 1575	201	10	--	--	--	--	--	--
83D 1577	201	16	--	--	--	--	--	--
83D 1578	201	175	--	--	--	--	--	--
83D 1579	201	8	--	--	--	--	--	--
83D 1580	201	11	--	--	--	--	--	--
83D 1581	201	195	--	--	--	--	--	--
83D 1583	201	34	--	--	--	--	--	--
83D 1584	201	3	--	--	--	--	--	--
83D 1585	201	3	--	--	--	--	--	--
83D 1586	201	8	--	--	--	--	--	--
83D 1587	201	26	--	--	--	--	--	--
83D 1589	201	5	--	--	--	--	--	--
83D 1590	201	50	--	--	--	--	--	--
83D 1591	201	265	--	--	--	--	--	--
83D 1592	201	26	--	--	--	--	--	--
83D 1593	201	5	--	--	--	--	--	--
83D 1594	201	<1	--	--	--	--	--	--
83D 1595	201	50	--	--	--	--	--	--
83D 1596	201	4	--	--	--	--	--	--
83D 1597	201	2	--	--	--	--	--	--
83D 1598	201	55	--	--	--	--	--	--
83D 1599	201	5	--	--	--	--	--	--
83D 1600	201	<1	--	--	--	--	--	--
83D 1601	201	2	--	--	--	--	--	--
83R 1382	201	80	--	--	--	--	--	--
83R 1383	201	100	--	--	--	--	--	--
83R 1385	201	27	--	--	--	--	--	--
83R 1386	201	9	--	--	--	--	--	--

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VANCOUVER, B.C.
V6B 4N1

CERT. # : A8316287-003-A
INVOICE # : 18316287
DATE : 22-NOV-83
P.O. # : NONE
CHRISTMAS

Sample description	Prep code	Au NAA ppb						
83R 1387	201	4	--	--	--	--	--	--
93R 1389	201	5	--	--	--	--	--	--
93WL 660	201	9	--	--	--	--	--	--
83WL 731	201	5	--	--	--	--	--	--
83WL 733	201	4	--	--	--	--	--	--
83WL 735	201	15	--	--	--	--	--	--
83WL 737	201	49	--	--	--	--	--	--
83WL 740	201	2	--	--	--	--	--	--
83Z 1689	201	37	--	--	--	--	--	--
83Z 1690	201	25	--	--	--	--	--	--
83Z 1692	201	3	--	--	--	--	--	--
83Z 1693	201	<1	--	--	--	--	--	--
3Z 1695	201	4	--	--	--	--	--	--
3Z 1697	201	<1	--	--	--	--	--	--
83Z 1698	201	<1	--	--	--	--	--	--
83Z 1699	201	<1	--	--	--	--	--	--
83Z 1701	201	2	--	--	--	--	--	--
83Z 1702	201	1	--	--	--	--	--	--
83Z 1703	201	<1	--	--	--	--	--	--
83Z 1705	201	4	--	--	--	--	--	--
83Z 1706	201	10	--	--	--	--	--	--
83Z 1707	201	11	--	--	--	--	--	--
83Z 1708	201	13	--	--	--	--	--	--
83Z 1709	201	3	--	--	--	--	--	--
93Z 1710	201	20	--	--	--	--	--	--
83Z 1711	201	7	--	--	--	--	--	--
83Z 1712	201	2	--	--	--	--	--	--
83Z 1713	201	16	--	--	--	--	--	--
83Z 1714	201	60	--	--	--	--	--	--
83Z 1716	201	<1	--	--	--	--	--	--
83Z 1717	201	<1	--	--	--	--	--	--
83Z 1719	201	12	--	--	--	--	--	--
83Z 1720	201	16	--	--	--	--	--	--
83Z 1721	201	50	--	--	--	--	--	--
83Z 1722	201	57	--	--	--	--	--	--
83Z 1723	201	12	--	--	--	--	--	--
83Z 1725	201	45	--	--	--	--	--	--
3Z 1726	201	4	--	--	--	--	--	--
3Z 1727	201	<1	--	--	--	--	--	--
83Z 1729	201	6	--	--	--	--	--	--

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A 8316287-004-A
INVOICE # : 18316287
DATE : 22-NOV-83
P.O. # : NONE
CHRISTMAS

Sample description	Prep code	Au NAA ppb						
83Z 1730	201	20	--	--	--	--	--	--
83Z 1731	201	26	--	--	--	--	--	--
83Z 1732	201	5	--	--	--	--	--	--
83Z 1734	201	18	--	--	--	--	--	--
83Z 1735	201	2	--	--	--	--	--	--
83Z 1736	201	<1	--	--	--	--	--	--
83Z 1737	201	1	--	--	--	--	--	--
83Z 1738	201	1	--	--	--	--	--	--
83Z 1740	201	5	--	--	--	--	--	--
83Z 1741	201	<1	--	--	--	--	--	--
83Z 1742	201	4	--	--	--	--	--	--
83Z 1743	201	4	--	--	--	--	--	--
83Z 1744	201	<1	--	--	--	--	--	--
83Z 1745	201	7	--	--	--	--	--	--
83Z 1746	201	8	--	--	--	--	--	--
83Z 1747	201	14	--	--	--	--	--	--
83Z 1748	201	<1	--	--	--	--	--	--
83Z 1749	201	<1	--	--	--	--	--	--



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 V6B 4N1

CERT. # : A9316288-001-A
 INVOICE # : I8316288
 DATE : 22-NOV-83
 P.C. # : NONE
 CHRISTMAS

Sample description	Prep code	Au NAA ppb						
83B 1122	205	<1	--	--	--	--	--	--
83B 1124	205	65	--	--	--	--	--	--
83B 1125	205	85	--	--	--	--	--	--
83B 1128A	205	4	--	--	--	--	--	--
83B 1128B	205	2	--	--	--	--	--	--
83B 1130	205	<1	--	--	--	--	--	--
83B 1137	205	25	--	--	--	--	--	--
83B 1139	205	12	--	--	--	--	--	--
83B 1146	205	3	--	--	--	--	--	--
83B 1147A	205	61	--	--	--	--	--	--
83B 1147B	205	70	--	--	--	--	--	--
83D 1391	205	49	--	--	--	--	--	--
83D 1393	205	105	--	--	--	--	--	--
83D 1394	205	<1	--	--	--	--	--	--
83D 1398	205	16	--	--	--	--	--	--
83D 1399	205	1	--	--	--	--	--	--
83D 1557	205	14	--	--	--	--	--	--
83D 1561	205	20	--	--	--	--	--	--
83D 1569	205	5	--	--	--	--	--	--
83D 1576	205	<1	--	--	--	--	--	--
83D 1582	205	310	--	--	--	--	--	--
83D 1588	205	<1	--	--	--	--	--	--
83R 1380	205	3	--	--	--	--	--	--
83R 1381	205	115	--	--	--	--	--	--
83R 1384	205	2	--	--	--	--	--	--
83R 1388	205	13	--	--	--	--	--	--
83R 1454	205	2	--	--	--	--	--	--
83R 1455	205	<1	--	--	--	--	--	--
83R 1456	205	1	--	--	--	--	--	--
83R 1457	205	9	--	--	--	--	--	--
83R 1458	205	5	--	--	--	--	--	--
83R 1459	205	32	--	--	--	--	--	--
83R 1460	205	4	--	--	--	--	--	--
83R 1461	205	150	--	--	--	--	--	--
83R 1462	205	17	--	--	--	--	--	--
83R 1463	205	23	--	--	--	--	--	--
83R 1464	205	9	--	--	--	--	--	--
83R 1465	205	9	--	--	--	--	--	--
83R 1466	205	4	--	--	--	--	--	--
83R 1467	205	210	--	--	--	--	--	--



Certified by *Hart Buchler*



CHEMEX LABS LTD.

212 BROOKSBANK AVE
 NORTH VANCOUVER, B.C.
 CANADA V7J 2C1
 TELEPHONE (604) 984-0221
 TELEX 043-52597

• ANALYTICAL CHEMISTS

• GEOCHEMISTS

• REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO : JMT SERVICES CORPORATION

8827 HUDSON STREET
 VANCOUVER, B.C.
 V6B 4N1

RECEIVED NOV 22 1983
 CERT. # : A8316288-002-A
 INVOICE # : 18316288
 DATE : 22-NOV-83
 P.O. # : NONE
 CHRISTMAS

Sample description	Prep code	AU NAA ppb						
83R 1468	205	145	--	--	--	--	--	--
83R 1469	205	360	--	--	--	--	--	--
83R 1470	205	150	--	--	--	--	--	--
83R 1471	205	7	--	--	--	--	--	--
83R 1472	205	30	--	--	--	--	--	--
83R 1473	205	12	--	--	--	--	--	--
83R 1474	205	520	--	--	--	--	--	--
83R 1475	205	840	--	--	--	--	--	--
83R 1476	205	325	--	--	--	--	--	--
83R 1477	205	145	--	--	--	--	--	--
83WL 732	205	10	--	--	--	--	--	--
83WL 734	205	13	--	--	--	--	--	--
83WL 736	205	32	--	--	--	--	--	--
83WL 738	205	240	--	--	--	--	--	--
83WL 739	205	4	--	--	--	--	--	--
83Z 1691	205	25	--	--	--	--	--	--
83Z 1694	205	6	--	--	--	--	--	--
83Z 1696	205	17	--	--	--	--	--	--
83Z 1700	205	8	--	--	--	--	--	--
83Z 1704	205	<1	--	--	--	--	--	--
83Z 1715	205	37	--	--	--	--	--	--
83Z 1718	205	9	--	--	--	--	--	--
83Z 1724	205	2	--	--	--	--	--	--
83Z 1728	205	2	--	--	--	--	--	--
83Z 1733	205	7	--	--	--	--	--	--
83Z 1739	205	<1	--	--	--	--	--	--
83Z 1750	205	2	--	--	--	--	--	--



Certified by *Stuart Richler*

by
J.M.T. SERVICES CORP.

CHRISTMAS PROPERTY
CANIM LAKE
GEOLOGY AND GEOCHEMISTRY

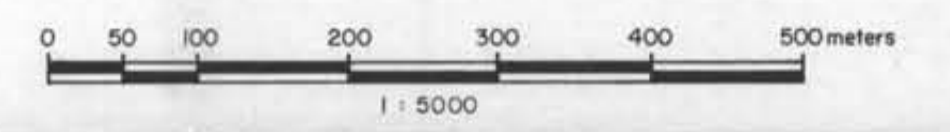
12,138

LEGEND

- OUTCROP PATTERN
- SOIL SAMPLE
- △ ROCK CHIP SAMPLE
- SAMPLE NUMBER
ppb Au
- BEDDING ATTITUDE
- ⊕ OLD DIAMOND DRILL
SETUP, BEARING AND
DIP OF THE HOLE
UNKNOWN
- ⊙ > 50 ppb. Au
- 20-49 ppb. Au
- 10-19 ppb. Au

GEOLOGICAL LEGEND

- 4 BASALT WITH FELDSPAR LATHS
- 3 HORNBLENDE DIORITE
- 2 HORNBLENDE PORPHYRITIC ANDESITE
DYKES AND FLOWS
- 1 ANDESITE TUFFS AND SEDIMENTS
- AREA > 10 ppb. Au



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