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CONSOLIDATED SILVER BUTTE MINES LTD.
REPORT ON GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL SURVEYS
CLAIMS P-540178, 543821 AND 831870
CHESTER TOWNSHIP, PORCUPINE M.D., ONT.

J. BANKOWSKI, B.Sc.

JANUARY, 1988.

TABLE OF

INTRODUCTION

A program of linecutting, geological mapping, geochemical and geophysical surveying was conducted on claims 537237, 540178 and 831870 during the period October 17 to November 2, 1987. The claims are located in NE Chester Twp. and are registered in the name of Consolidated Silver Butte Mines Ltd. of Vancouver, B.C..

LOCATION AND ACCESS

The three claims are located in Chester Twp. about 15 miles south of the town of Gogama, Ontario within the Archean "Swayze" greenstone belt(Figure 1).

Access to the claims is excellent and is via both road and water. Road access can be obtained along the Murgold Resources road to a point about 1,000 feet south of the claims and then by cat road to the claims either by foot or A.T.V.. The claims can also be reached by boat from a public access facility on Lake Mesomikenda off the L. Mesomikenda road about 1,000 feet east of the claims.

PREVIOUS WORK

Hanson Mineral Exploration conducted an EM survey, drilled two holes and performed stripping and sampling on three zones, the "East, South and Main" during 1981-2. Grab samples to 0.425 oz. Au/T and channel samples of 0.128 over 2.3 feet and 0.102 oz. Au/T over 3.8 feet were obtained from the "Main" zone while a grab sample from the "East" zone is reported to have yielded 2.55 oz. Au/T. A chip sample is reported to have yielded 0.205 oz. Au/T over 5 feet from the "South" zone.

An airborn magnetometer-EM survey was flown over the claims in 1985 and a ground mag survey was conducted on claim 540178 in 1984.

GENERAL GEOLOGY

The area is underlain entirely by late Archean metavolcanics and a younger, granodioritic intrusive complex and has been mapped in 1980 by G.M. Siragusa for the Ontario Geological Survey(Siragusa, G.M., 1981).

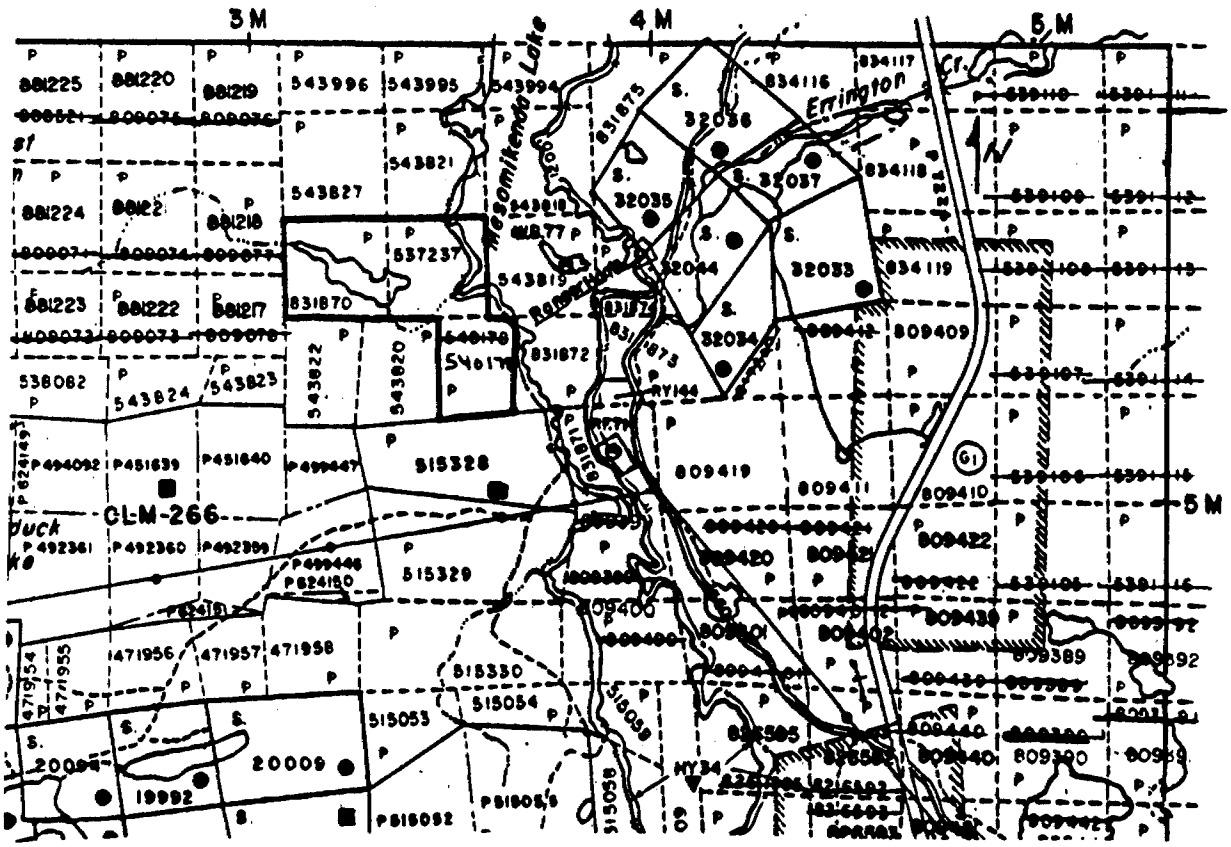

FIGURE 1 - CLAIM LOCATION MAP

GENERAL GEOLOGY (CON'T.)

The metavolcanics in the general area consist of an east-west trending belt which ranges from over 2 miles wide at the west boundary of Chester Twp. to about $\frac{1}{2}$ mile wide at the eastern boundary.

The northern part of this belt consists of tholeitic basalt while the south part is composed of felsic pyroclastics. South of the volcanics is a large granodioritic intrusive complex ranging from mafic to acidic. The above are all cut by diabase of Proterozoic age.

Three sets of faulting occur through this assemblage at about 160°, 120° and 45°. Little movement appears to have taken place in general except on the set at 160° such as the Lake Mesomikenda fault where displacement of $\frac{1}{4}$ mile laterally as well as significant but undetermined vertical displacement has been noted.

Interest in the area is concerned with gold-sulphide mineralization within shear-zones in the set of faults at 120° more or less parallel to the regional strike. Some gold occurrences in the area trend at about 50° and seem related to the set of faults at 45° azimuth.

The gold mineralization in the area appears to be structurally controlled and is usually at the intersection of the 160° and 120° azimuth set of structures. Long, narrow Proterozoic diabase dikes commonly occupy the 160° faults in Chester Twp. and these dikes are present at the bulk of the showings.

CLAIM GEOLOGY

The entire property is underlain by Archean rocks consisting of older, metavolcanics of both mafic and felsic composition and is intruded by a younger, granodioritic intrusive complex and all these rocks are in turn cut by Proterozoic diabase dikes (Figure 2).

A band of felsic, pyroclastic metavolcanics strikes across the center of the claims with a general bearing of about 112° azimuth and a width ranging from 800 feet to 200 feet. These rocks are generally fine-grained with clasts to lappili size locally, are light to medium green-gray in color, are compositionally felsic and in general display a high degree of deformation with intense

CLAIM GEOLOGY (CON'T.)

foliation. Strikes range from 70° to 96° azimuth with vertical and both north and south steep dips.

Locally, these tuffaceous rocks are aphanitic and have a laminated appearance and are not as strongly foliated.

Flanking the felsic rocks on claims 831870 and 543821 are tholeitic metavolcanics with strikes ranging from 83° to 122° azimuth and vertical or near-vertical dips. These rocks are fine to medium-grained, medium to dark green in color, are compositionally mafic and show a moderate amount of deformation with weak to moderate foliation.These rocks have undergone regional greenschist metamorphism and have a dioritic texture. Pyroclastic clasts were noted locally and these rocks appear to be tuffaceous in part.

The southern portion of claim 540178 is underlain by an intrusive complex of granodioritic affinity ranging from acidic trondhjemite to mafic diorite. Numerous xenoliths of volcanic rock are present in this complex and range from completely digested to relatively fresh and unaltered making distinction between mafic intrusive phases and altered mafic volcanic xenoliths difficult.

These rocks are generally medium to coarse-grained, are dark green to light buff in color and are massive with strong jointing locally in the acid phases as at L20E-1S.

An outcrop of light-green colored chert was noted at BL-0+50W with a strike of 70° azimuth and a vertical dip. Outcrops of intrusive mafic dikes were noted at 12N-7W and L8E-0+50N.

Three shear zones hosting gold-sulphide mineralization are known on the property and have been designated the "Main, East and South" zones. Two of these zones occur in the pyroclastic volcanics and the third is located within the intrusive complex.

The "Main" zone is centered at L4E-4+50N and strikes at 102° azimuth with a vertical dip. The shear is 2 to 4 feet wide and is exposed by trenching for a length of 200 feet. Grab samples to 0.425 oz. Au/T and channel samples of 0.128 and 0.102 oz. Au/T over 2.3 and 3.8 respectively were reported from previous work. Mineralization consists of locally heavy pyrite and arsenopyrite in the shear

CLAIM GEOLOGY (CON'T.)

planes. Quartz is present locally but is generally sparse and the shear is relatively "dry". Sericite is abundant in the shear and carbonitization is also evident.

The "East" zone is centered at 13E-0+70N and has been exposed for a length of 80 feet. This shear is also 2 to 4 feet wide with a strike of 102° azimuth and a vertical dip. Except for having a lesser degree of sulphide mieralization, this shear is the same as the "Main" zone and in fact may represent the same structure offset slightly by faulting. Grabs to 2.55 oz. Au/T were reported from previous work and a grab of quartz-carboate material with several percent sulphides was taken off the dump by the author in 1986 and gave a value of 0.543 oz. Au/T.

The "South" zone is located at 14+80E-10+80S and is exposed in a pit about 10 by 20 by 10 feet deep on the southern boundary of claim 540178. This zone occurs in sheared quartz diorite with a strike of 102° azimuth and a vertical dip and consists of two shears about 1 foot wide separated by 4 feet of relatively unmineralized rock. Mineralization consists of pyrite, arsenopyrite and minor chalcopyrite with heavy silicification. A chip sample over 5 feet gave 0.205 oz. Au/T in previous work and a chip sample over 6 feet by the author in 1986 gave 0.8 oz. Au/T.

GEOCHEMISTRY

A total of 137 soil samples were taken from the grid and assayed for gold and silver (Figure 3).

Values ranged from 2 to 30 ppb Au and from "not detected" to 0.8 ppm Ag with background values of about 5 ppb and 0.2 ppm respectively. A broad, moderately anomalous zone exists on the southern half of claim 540178 and seems related to the intrusive complex which appears to have a higher background than the volcanics to the north. The highest Au geochemical values obtained by the survey came from this area with values of 30, 26 and 22 ppb Au from L16E-9S, L24E-10S and L16E-7S respectively. The high value of 30 ppb from L16E-9S may be related to the "South" show as this zone lies

GEOCHEMISTRY (CON'T.)

about 300 feet southwest. The next most prominent anomaly is located at L12W-6&7N with values of 22 and 20 ppb Au respectively and is located in a relatively low area. This response may be due to organics in the samples. Nine, one or two station anomalies were also outlined all with values of 10 to 18 ppb Au but no clear trends are evident with the possible exception of two anomalous areas at L8E-2N and L12E-5N which lie along an interpreted fault trending at about 56° azimuth.

In addition to the soil samples, a total of 6 rock chip samples of interesting mineralization were taken during the geological mapping and assayed for Au and Ag. Values of 0.33 oz. Au/T, 84, 5, 60, 36 and 11 ppb Au with corresponding Ag values of 3.0, 0.4, 0.2, ND, 0.4 and 0.6 ppm were obtained from L20E-4S, L20E-1S, L12E-0+40S, L12E-10S, 6W-12N and 6+50W-12N respectively.

The high value of 0.33 oz.Au/T obtained at L20E-4S is of interest since it was obtained from a plug about 3 inches by 3 inches apparently at the intersection of several sets of jointing. Most of the joints in this area have a thin coating of iron oxide and a mineralized shear may exist close by.

VLF-EM SURVEY

A total of 6 conductors were outlined by the VLF survey on the property. The longest and most intense conductor is located under a small pond on claim 831870 with a length of at least 1600 feet and an arcuate form ranging from about 90° to 125° azimuth. Maximum values of +53% and -33% with the strongest response at L0+00-10N were recorded. A moderate conductor with maximum values of +22 and -6% crosses from L8E-2+50N through L12E-1N to L16E-0 +50N for a total length of 800 feet and a strike of about 100° azimuth.

Both of these conductors are located within the felsic volcanic belt and tend to follow the general strike of these volcanics. Another interesting feature can be seen from the Fraser filtered data which shows the "Main" zone to be located adjacent to a Fraser value of +42 while the "East" zone lies just south of the second

VLF-EM SURVEY (CON'T.)

conductor within contoured Fraser values of 0 to 20. The amount of displacement between the projected strikes of the two conductors and the projected strikes of the "Main" and "East" zones is consistent and suggests that these two conductors are both one continuous conductor which has been offset about 100 to 200 feet by a fault located between the "Main" and "East" shows. Also, the stronger Fraser response at the "Main" show relative to the "East" show could be explained by the heavier sulphide mineralization noted at the "Main" show.

A short, moderate to strong conductor striking at about 75° azimuth is located at L12W-1+50N with maximum values of +36 and -12%. This conductor is in low ground and may be due to ground effects.

A moderate conductor over a length of 400 feet from L12E-12+70N to L8E-12N has maximum values of +25 and -14% and occurs in a relatively flat area. Sulphide may be the cause or a fault.

A short, moderate conductor with maximum values of +24 and -13% is located at L12E-2+50S near the interpreted volcanic-intrusive contact and may be due to sulphides while a weak conductor exists at L12E-3+50N and is probably related to an interpreted fault.

DISCUSSION

The property lies within an area of numerous high-grade gold occurrences in Chester Twp. and is known to host at least 3 occurrences of gold mineralization. Whereas all the known occurrences in the area are within the intrusive complex, the property is unique in that two of the occurrences on the property, the "Main" and "East" zones are within the felsic volcanics while the "South" zone is within the intrusive complex. The volcanics on the property represent the eastern extension of the Swayze greenstone belt at its' narrowest width and the felsic unit is heavily deformed (foliated). A regional fault, the Lake Mesomikenda fault, is located at the eastern boundary of the property and considerable movement both lateral and vertical has taken place. The setting of the property in an area of thinning and deformation of the volcanics adjacent to a regional fault and in contact with a large intrusive complex to the south appears very attractive.

The VLF-EM survey identified 6 conductors with the two strongest ones in the felsic volcanics. These two conductors are considered to represent the same structure but are offset slightly by faulting. Total length of the two conductors is at least 2800 feet. Fraser filtering of the data shows the "Main" and "East" zones to be closely related to the VLF conductors in the felsic volcanics and the conductors are considered to be caused by sulphide mineralization. This sulphide mineralization is likely epigenetic and shear-related in nature. The sulphide could be an iron formation but this is not likely since IF in the general area tends to occur in the tholeitic basalts and have a pronounced magnetic high due to pyrrhotite and magnetite but no mag highs are shown on the government airborn mag-EM maps or the 1985 Terraquest survey over the conductors.

The geochemical survey in general, failed to outline any significant trends except perhaps for the area around L16E-9S where the survey high of 30ppb was obtained. This area is close to the "South" zone and parallel zones are likely present. Also, the area around L20E-4S should be closely examined for shear-zones as a grab sample of sulphide-rich material at the intersection of several sets of jointing at this location gave an assay of 0.33 oz. Au/T..

RECOMMENDATIONS

1 - The conductor under the small pond on claim 831870 should be drilled. Two holes of about 500 feet each would effectively assess the nature of the conductors and should be drilled into the areas of highest EM response as indicated by the Fraser filtering. This work is estimated to have an all-inclusive cost of about $50,000.00.

2 - The areas around L16E-9S and L20E-4S should be examined for shear-zones as anomalous geochemical values were obtained at these locations.

Respectfully submitted;

J. Bankowski

J. Bankowski, B.Sc.

January 27, 1988.

CERTIFICATE

I, Joseph H. Bankowski, do hereby certify;

1 - that I am an exploration geologist residing at 88 Edgedale Drive, N.W., Calgary, Alberta;

2 - that I am a graduate of the University of Western Ontario, 1980 with a B.Sc. (Geology) and a graduate of Cambrian College, Sudbury, Ontario, 1972 (Geol. Tech.);

3 - that I have been engaged in the practice of my profession since graduating;

4 - that I have no interest, direct or indirect, nor do I expect to receive any such interest in the properties or securities of Consolidated Silver Butte Mines Ltd.

Joseph H. Bankowski
Geologist (B.Sc.)

J. Bankowski

January 27, 1988.

BELL-WHITE ANALYTICAL LABORATORIES LTD.
P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

Certificate of Analysis

NO. 4131 **DATE:** December 23, 1987

SAMPLE(S) OF: Rock (45) **RECEIVED:** December 1987

SAMPLE(S) FROM: Mr. J. Bankowski, CALGARY, Alberta

Sample No.	Au ppb	Au oz.	Ag ppm
132021	90		0.2
2	18		ND
3	162		ND
4	15		0.2
5	5		ND
6		0.330**	3.0
7	84		0.4
8	60		ND
9	36		0.4
132030	11		0.6
1	140		0.8
2	11		1.2
3		0.088**	10.2
4	55		0.4
5	223		1.0
6	239		0.6
7		0.132**	3.4
8	132		1.2
9	29		1.2
132040	654**		1.2
1	145		1.0
2	69		1.2
3		0.096**	3.4
132044		0.052**	3.0
5		0.032**	2.0
6		0.146**	4.0
7	289		1.2
8	182		0.8
9	221		0.8
132050	75		1.2
1	40		1.0
2	55		1.2
3	37		1.2
4	21		1.2
5	343		1.2
6		0.084**	2.2
7		0.036**	2.0
8	16		1.2
9	11		0.8
132060	18		1.0
1	14		1.6
2	22		1.2
3	18		0.6
4	22		1.2
5	16		1.2

NOTE: ND denotes not detected.
** Checked

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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Certificate of Analysis

Page 1 of 2

NO. 4030 DATE: December 15, 1987

SAMPLE(S) OF: Soils (140) RECEIVED: December 1987

SAMPLE(S) FROM: Mr. J. Bankowski, GOGAMA, Ontario

Sample Identification	Au ppb	Ag ppm
LO+2N	2	0.2
LO+3N	4	ND
LO+4N	4	ND
LO+5N	8	ND
LO+6N	4	ND
LO+6+54N	4	ND
LO+12N	2	0.2
LO+13N	4	0.2
LO+14N	8	0.2
B+4W	11	0.2
L4W+1N	4	0.2
L4W+2N	9	ND
L4W+3N	5	0.4
L4W+4N	12	0.2
L4W+5N	2	0.4
L4W+6N	2	ND
L4W+7N	4	0.2
L4W+8N	7	0.8
L4W+9N	8	0.2
L4W+10N	4	0.4
L4W+14N	5	0.2
L4W+15N	7	0.4
B+8W	5	0.2
L8W+1N	7	ND
L8W+2N	4	0.2
L8W+3N	4	0.2
L8W+4N	5	ND
L8W+5N	4	0.2
L8W+6N	2	0.2
L8W+7N	5	ND
L8W+8N	8	ND
L8W+9N	5	ND
L8W+10N	18	0.4
L8W+11N	8	ND
L8W+12N	10	0.8
L8W+15N	6	0.4
B+12W	8	ND
L12W+1N	8	ND
L12W+2N	2	ND
L12W+3N	3	ND
L12W+4N	8	ND
L12W+5N	6	0.2
L12W+6N	22	ND
L12W+7N	20	ND
L12W+8N	18	0.2
L12W+9N	4	ND
L12W+10N	2	ND
L12W+11N	4	ND
L12W+12N	4	ND
L12W+13N	2	ND
L12W+14N	2	ND
B+4E	6	ND
L4E+1N	6	0.2
L4E+2N	10	ND
L4E+3N	8	ND
L4E+4N	8	ND
L4E+6N	4	ND
L4E+11N	6	ND
L4E+12N	6	ND
L4E+13N	8	ND
L4E+14N	4	ND
L4E+15N	4	ND
B+8E	4	ND
L8E+1N	2	0.2
L8E+2N	18	0.2
L8E+3N	8	0.2
L8E+4N	2	0.2
L8E+5N	6	ND
L8E+6N	2	ND
L8E+7N	4	0.2

NOTE: ND denotes not detected.

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Certificate of Analysis

Page 2 of 2

NO. 4030 **DATE:** December 15, 1987

SAMPLE(S) OF: Soils (140) **RECEIVED:** December 1987

SAMPLE(S) FROM: Mr. J. Bankowski, GOGAMA, Ontario

Sample Identification	Au ppb	Ag ppm
L8E+8N	6	0.2
L8E+10N	2	0.2
L8E+11N	16	0.2
L8E+12N	4	0.2
L8E+13N	2	ND
L8E+14N	6	ND
B+12E	10	0.2
L12E+1N	8	0.6
L12E+4N	10	0.4
L12E+5N	14	ND
L12E+6N	8	0.2
L12E+7N	6	0.4
L12E+8N	4	0.2
L12E+9N	4	0.4
L12E+10N	8	ND
L12E+11N	6	ND
L12E+12N	6	0.2
L12E+13N	2	0.2
L12E+14N	8	ND
L12E+15N	12	0.2
L12E+5S	8	0.2
L12E+6S	12	0.2
L12E+7S	10	0.2
L12E+8S	8	0.2
L12E+9S	6	0.2
L12E+10S	8	0.2
L12E-10+65S	4	ND
L16E+2N	2	ND
L16E+3N	12	ND
L16E+5N	6	0.2
L16E+6N	4	ND
L16E+9N	4	0.2
L16E+10N	4	0.4
L16E+11N	10	0.4
L16E+12N	8	ND

Sample Identification	Au ppb	Ag ppm
L16E+2S	14	0.4
L16E+3S	8	0.4
L16E+4S	18	0.2
L16E+5S	4	ND
L16E+6S	10	0.2
L16E+7S	22	0.2
L16E+8S	4	0.2
L16E+9S	30**	0.2
L16E+2N	2	ND
L16E+3N	12	0.2
L16E+4N	2	0.2
B+20E	8	0.4
L20E+1N	10	0.6
L20E+2N	14	0.2
L20E+3N	5	0.4
L20E+4N	3	0.2
L20E+5N	5	ND
L20E+6N	4	0.2
L20E+2S	2	ND
L20E+3S	6	ND
L20E+4S	4	0.8
L20E+6S	10	ND
L20E+8S	12	ND
L24E+1N	5	0.2
L24E+2N	4	0.2
L24E+10S	26	0.2
6+78N	8	ND
15+25N	4	ND
15+35N	14	ND
15+40N	2	ND
15+61N	9	0.2
B0+00	6	0.2
N1+07	8	ND
L12E+11+12S	4	ND
10+20S	6	ND

NOTE: ND denotes not detected.
** Checked

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPENSATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGY, GEOCHEM. & VLF-EM

Township or Area CHESTER

Claim Holder(s) CONSOLIDATED SILVER BUTTE MINES LTD. (T-1977)

Survey Company J. BANKOWSKI

Author of Report J. BANKOWSKI

Address of Author 88 Edgedale Dr. N.W. Calgary, Alta.

Covering Dates of Survey Oct. 17 – Nov. 2/87
(linecutting to office)

Total Miles of Line Cut 3

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

DAYS per claim

Geophysical
–Electromagnetic 40
–Magnetometer
–Radiometric
–Other
Geological 20
Geochemical 20

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer ____ Electromagnetic ____ Radiometric ____
(enter days per claim)

DATE: Jan. 27/88 SIGNATURE: J. Bankowski
Author of Report or Agent

Res. Geol. ____ Qualifications 2.7007

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

P-537237
P-540178
P-831870

If space insufficient, attach list

TOTAL CLAIMS 3

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

Sept 13

Ministry of Northern Development and Mines
Ontario

Mining Act

Report of Work
(Geophysical, Geological and Geochemical Surveys)

DOCUMENT NO. W 9006.60458

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Type of Survey(s)	Mining Division	Township or Area
GEOPHYSICAL(VLF-EM), GEOLOGICAL & GEOCHEMICAL	PORCUPINE	CHESTER TWP.

Recorded Holder(s)	Prospector's Licence No.
SILVER BUTTE RESOURCES LTD., VGC IES	T-1977

Address	Telephone No.
#1201 - 900 WEST HASTINGS ST., VANC., B.C.,	(604) 669-8929

Survey Company
J. BANKOWSKI 2.10778

Name and Address of Author (of Geo-Technical Report)	Date of Survey (from & to)					
J. Bankowski, 88 EDGEDALE DR. N.W., CALGARY, ALTA. T3A 2R4	Day	Mo.	Yr.	Day	Mo.	Yr.
	17	10	87	2	11	87

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey:	Geophysical	
Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	
For each additional survey: using the same grid:	- Other	
Enter 20 days (for each)	Geological	20
	Geochemical	20

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	
	Magnetometer	
	Other	

Total miles flown over claim(s).

Date	Recorded Holder or Agent (Signature)

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
P	537237				
P	540178	(25-EM)			
* please refer to attached letter					

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MINING LANDS SECTION

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10:30 AM

Total number of mining claims covered by this report of work: 2

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
J. BANKOWSKI, 88 EDGEDALE DR. N.W., CALGARY, ALBERTA

T3A 2R4	Telephone No. (403) 239-7273	Date Aug. 7/90	Certified By (Signature) J. Bankowski

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
145	Aug. 13/90	L. White Mining Recorder	RECORDED AUG 13 1990
	Date Approved as Recorded	Provincial Manager, Mining Lands	
	Sept 19/90	Ron C Gashinski	

DM

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

#277/87.

Dec. 23

Mining Act 2.10778

Instructions: – Please type or print.
– If number of mining claims traversed exceeds space on this form, attach a list.
Note: – Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s): Grid, geology, geophysics (VLF-EM) & geochemical	Township or Area: Chester
Claim Holder(s): Consolidated Silver Butte Mines Ltd.	Prospector's Licence No.: T-1977
Address: #906-837 West Hastings St., Vancouver, B.C.	
Survey Company: J. Bankowski, B.Sc. (geol.)	Date of Survey (from & to): 17 Day / 10 Mo. / 87 Yr. — 2 Day / 11 Mo. / 87 Yr.
Total Miles of line Cut: 3 mi.	
Name and Address of Author (of Geo-Technical report): J. Bankowski, 88 Edgedale Dr. N.W., Calgary, Alta., T3C-2R4	

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	40
	Geochemical	20

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

PORCUPINE MINING DIVISION RECEIVED NOV 3 1987

RECEIVED NOV 20 1987 MINING LANDS SECTION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	~~537227~~	JHB
	~~540228~~	JHB
	831870	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES RESEARCH OFFICE FEB 10 1988 RECEIVED

RECORDED NOV 03 1987

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 3

For Office Use Only		
Total Days Cr. Recorded: 60	Date Recorded: Nov. 3/87	Mining Recorder: D. White
	Date Approved as Recorded: 2 Feb 88	Branch Director:

Date	Recorded Holder or Agent (Signature)
Nov. 3/87	J. Bankowski

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying		
J. Bankowski, 88 Edgedale Dr. NW Calgary, Alta T3C 2R4	Date Certified: Nov. 3/87	Certified by (Signature): J. Bankowski

1262 (81/9)

Sept 13

Ministry of Northern Development and Mines
Ontario

DOCUMENT No. W 9006.60458

Report of Work
Mining Act
(Geophysical, Geological and Geochemical Surveys)

Instructions
- Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.
- Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Type of Survey(s)	Mining Division	Township or Area
GEOPHYSICAL(VLF-EM), GEOLOGICAL & GEOCHEMICAL	PORCUPINE	CHESTER TWP.

Recorded Holder(s)	Prospector's Licence No.
SILVER BUTTE RESOURCES LTD., V6C 1E6	T-1977
Address	**Telephone No.**
#1201 - 900 WEST HASTINGS ST., VANC., B.C.,	(604) 669-8929
Survey Company	
J. BANKOWSKI 2.10778	
Name and Address of Author (of Geo-Technical Report)	**Date of Survey (from & to)**
J. Bankowski, 88 EOGEOALE DR. N.W., CALGARY, ALTA. T3A 2R4	17 (Day) 10 (Mo.) 87 (Yr.) 2 (Day) 11 (Mo.) 87 (Yr.)

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey:	Geophysical	
Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	
For each additional survey: using the same grid:	- Other	
Enter 20 days (for each)	Geological	20
	Geochemical	20
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys	Electromagnetic	
	Magnetometer	
	Other	

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Total miles flown over claim(s).

Date | Recorded Holder or Agent (Signature)

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number	Mining Claim Prefix	Mining Claim Number
P	537237 ✓				
P	540178 ✓	(25-EM)			
* please refer to attached letter					

COPY

RECEIVED
AUG 16 1990
MINING LANDS SECTION

Total number of mining claims covered by this report of work: 2

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true

Name and Address of Person Certifying
J. BANKOWSKI, 88 EOGEOALE DR. N.W., CALGARY, ALBERTA

T3A 2R4	Telephone No (403) 239-7273	Date Aug. 7/90	Certified By (Signature) J. Bankowski

Received Stamp

RECORDED
AUG 13 1990

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
145	Aug. 13/90	Mining Recorder
	Date Approved as Recorded	Provincial Manager, Mining Lands

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
(R)	SEC. 36/80		19/2/80	S.R.O.	171509

SAND AND GRAVEL

(G) QUARRY PERMIT
(G1) M.T.C. PIT No. 1349
(G2) M.T.C. GRAVEL PIT No. 1649
(G3) M.T.C. GRAVEL PIT No. 1385

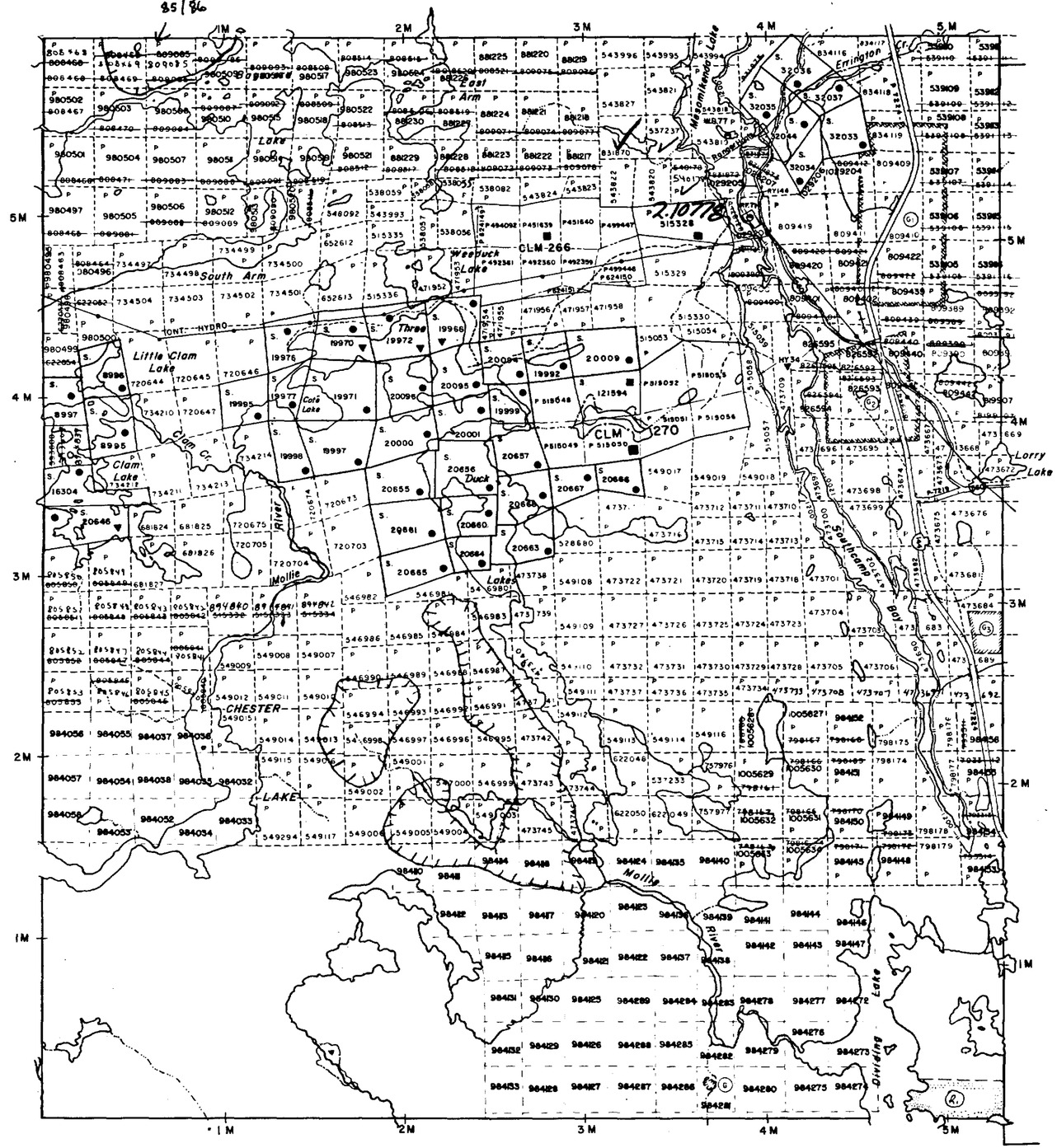
NOTES

FLOODING RIGHTS TO CONTOUR 1200' RESERVED TO ONT. HYDRO, LOC. MY 36, L.O. 7543, FILE 1.62.

Forestry operations cutting and site preparation 85-86

NEVILLE TP.

cutting Area 85/86



YEO TP.

BENNEWEIS TP.

INVERGARRY TP.

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	⊖
" , MINING RIGHTS ONLY	⊖
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	▣
" , MINING RIGHTS ONLY	▣
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	(R)
CANCELLED	⊕
SAND & GRAVEL	(G)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

TOWNSHIP
CHESTER

M.N.R. ADMINISTRATIVE DISTRICT
GOGAMA
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
SUDBURY

RECEIVED DEC 24 1987

Ministry of Natural Resources — Land Management Branch — Ontario

Date MARCH, 1985
Rec'd Apr. 4/85 checked L.H.

Number
G-3223

41P12SW0038 2.10778 CHESTER

200

CONSOLIDATED SILVER BUTTE MINES LTD.

FIGURE 2 - GEOLOGY & SAMPLE LOCATIONS
CLAIMS P-537237, 540178 & 831870
CHESTER TWP., PORCUPINE M.D.
DIST. OF SUDBURY, ONTARIO.

Scale: 1"-200'

0 100 200 300 400
FEET

COMMENTS:

2.10778

J. Bankowski
Drawn by: J. Bankowski, January, 1988.

LEGEND

1. mafic metavolcanics, predominantly flows but locally some intercalated tuff, generally fine to medium grained, dark green, weakly to moderately foliated
2. intermediate to felsic tuffaceous metavolcanics, generally fine grained, light to medium gray-green, well foliated, laminated
3. intrusive granodioritic complex, ranging from diorite (mafic) to trondhjemite (acidic), medium to coarse-grained, heavy blue quartz "eye" alteration especially adjacent to shears.

85°/118° - strike & dip of foliation
85°/116° - strike & dip of jointing
116° - strike & dip of shearing (vert. dip shown)
- geological contact
- fault
- air-photo linear, possible fault

L.MESOMIKENDA

declin. 11.5° W

POND

831870

537237

540178

L.MESOMIKENDA FAULT

BASELINE

L12W L8W L4W L0 L4E L8E L12E L16E L20E L24E

16N 15N 14N 13N 12N 11N 10N 9N 8N 7N 6N 5N 4N 3N 2N 1N BASE

L12W: 2•ND | 2•ND | 4•ND | 4•ND | 2•ND | 18•0.2 | 20•ND | 22•ND | 6•0.2 | 8•ND | 3•ND | 2•ND | 8•ND | 8•ND

L8W: 6•0.4 | 10•0.8 | 8•ND | 18•0.4 | 5•ND | 8•N.D. | 5•ND | 2•0.2 | 4•0.2 | 5•ND | 4•0.2 | 4•0.2 | 7•ND | 5•0.2

L4W: 3•0.2 | 7•0.4 | 5•0.2 | 4•0.4 | 8•0.2 | 7•0.8 | 4•0.2 | 2•ND | 2•0.4 | 12•0.2 | 5•0.4 | 3•ND | 4•0.2 | 11•0.2

L0: 4•N.D | 8•0.2 | 4•0.2 | 2•0.2 | 8•ND | 4•ND | 4•ND | 4•ND | 8•ND | 4•ND | 4•ND | 2•0.2 | 2•0.2 | 6•0.2

L4E: 2•ND | 4•ND | 8•ND | 6•ND | 6•ND | 2•0.2 | 6•ND | 4•ND | 4•ND | 8•ND | 8•ND | 10•ND | 6•ND | 6•ND

L8E: 14•ND | 10 | 6•ND | 2•ND | 4•0.2 | 16•0.2 | 10 | 2•0.2 | 6•0.2 | 4•0.2 | 2•ND | 6•ND | 2•0.2 | 8•0.2 | 18•0.2 | 2•0.2 | 4•ND

L12E: 12•0.2 | 10 | 8•ND | 2•0.2 | 6•0.2 | 6•ND | 8•ND | 4•0.1 | 4•0.2 | 6•0.4 | 8•0.2 | 14•N.D | 10•0.4 | 8•0.6 | 10•0.2

L16E: 8•ND | 10•0.4 | 4•0.4 | 4•0.2 | 8•ND | 4•NO | 6•0.2 | 2•0.2 | 12•N0 | 2•ND | 8•0.4

L20E: 4•0.2 | 5•N0 | 3•0.2 | 5•0.9 | 10 | 14•0.2 | 10•0.6 | 8•0.4

L24E: 26•0.2

BASE: 8•ND | 5•0.2 | 11•0.2 | 6•0.2 | 6•NO | 4•ND | 10•0.2 | 8•0.4

L12W L8W L4W L0 L4E L8E L12E

B.C. claimline

B.C. claimline

831870

POND

537237

L. MESOMIKENDA

N (true)

decln. 11.5° W

14•0.4 | 2•ND | 8•0.4 | 10 | 6•ND | 18•0.2 | 4•0.8 | 10 | 8•0.2 | 4•NO | 540178 | 12•0.2 | 10 | 10•0.2 | 10•ND | 10 | 10•0.2 | 22•0.2 | 10 | 8•0.2 | 10 | 4•0.2 | 12•ND | 6•0.2 | 10 | 20 | 30•0.2 | 8•0.2 | 4•NO | 4•ND

L12E L16E L20E L24E

CONSOLIDATED SILVER BUTTE MINES LTD.

FIGURE 3 - GEOCHEMISTRY: Au (ppb) & Ag (ppm)
CLAIMS P-537237, 540178 & 831870
CHESTER TWP., PORCUPINE M.D.
DIST. OF SUDBURY, ONTARIO.

Scale: 1"-200'

0 100 200 300 400
FEET

COMMENTS:

2.10778

Drawn by: J. Bankowski, January, 1988.

J. Bankowski

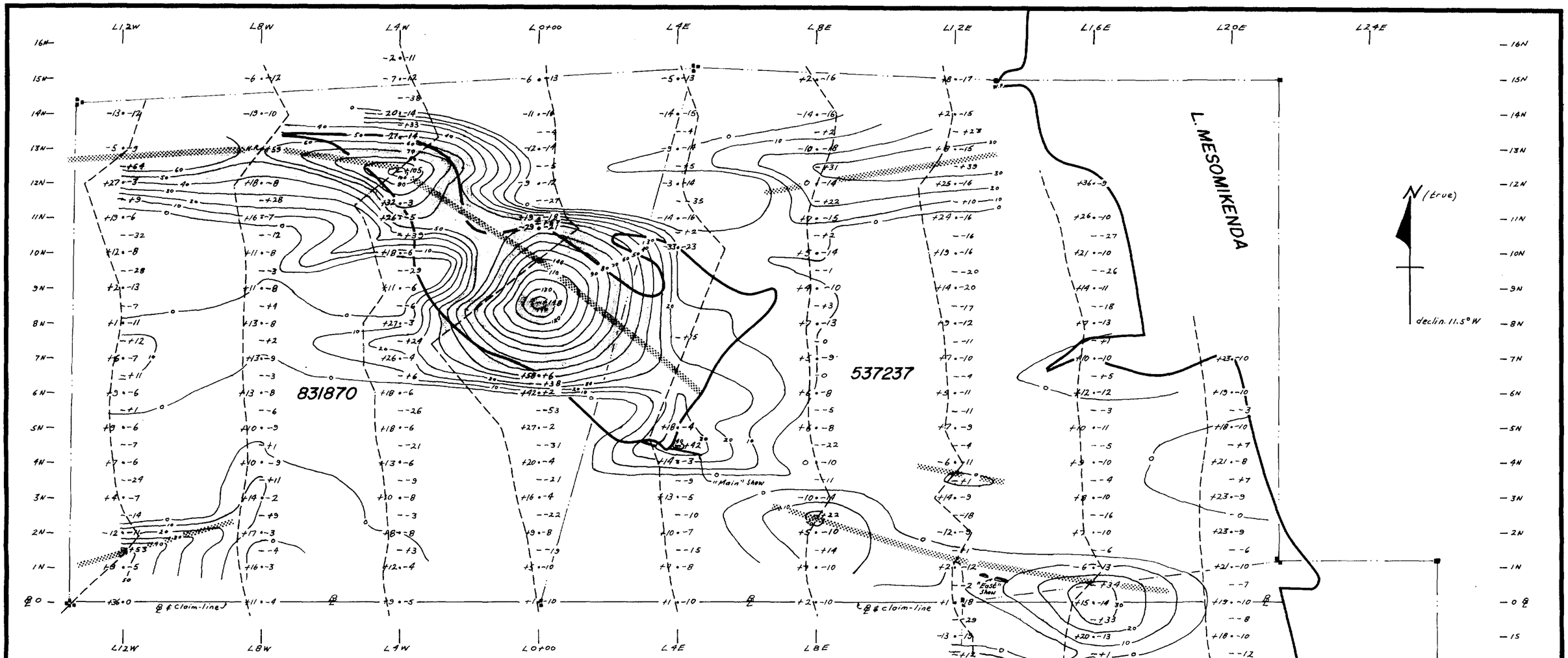
LEGEND

2•0.4 Ag (ppm)
Au (ppb)

12•0.2 ← contour line, interval 10 ppb. Au (Ag values not contoured)
10

5•0.4
Line

- all assays by: Bell-White Laboratories Haileybury, Ontario.



CONSOLIDATED SILVER BUTTE MINES LTD.

FIGURE 4 - VLF-EM PROFILES & FRASER CONTOURS
CLAIMS P-537237, 540178 & 831870
CHESTER TWP., PORCUPINE M.D.
DIST. OF SUDBURY, ONTARIO.

Scale: 1" - 200'

0 100 200 300 400
FEET

COMMENTS:

2. 10778 duplicate

Drawn. by: J. Bankowski, January, 1988.

LEGEND

in-phase +23 -15 quadrature (not profiled)
+23 Fraser filtered value
in-phase profile
+18 -15 Fraser filtered contour lines; contour interval: 10
+39 conductor axis
+25 -16
+10
+24 -16
LINE

Transmitter: NAA, Cutler, Maine 24.0 KHz.
Instrument: Geonics EM-16

Filtered Values:
- 0-40
- 40-80
- 80-120
- >120