85-984-14179

A REPORT ON THE GEOCHEMICAL AND GEOPHYSICAL SURVEYS ON

SLEWESKIN PROPERTY, NAKUSP AREA SLOCAN MINING DIVISION

NTS 82 K 4E

50° 4' 30" ; 117° 39' 45"

For

TILLICUM GOLD MINES LTD.
2793-595 BURRARD ST. VANCOUVER, B.C.

BY

J.W. GEORGE (GEOLOGIST)

T. WALKER (CONSULTING GEOPHYSICIST)

DECEMBER 1st 1985

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INTRODUCTION

This report is an evaluation of geochemical and geophysical surveys carried out on the Sleweskin Group of mineral claims between October 3rd- October 12th 1984, and from September 9th - September 11th, 1985, respectively.

LOCATION

The Sleweskin property is located 20 kilometers southeast of Nakusp, B.C., on the eastern slope of Silver Mountain. It is readily accessible from Nakusp via Highway #6, the Sleweskin Creek forest access road and numerous good logging roads.(Fig. 1)

TOPOGRAPHY

Topography is moderate to steep and the are is heavily forested. A considerable part of the lower slopes have been recently logged. Elevations on the property range from 1200 km to 2440 km.

TILLICUM GOLD MINES LTD.		
G.A. NOEL & ASSOCIATES INC.		VANCOUVER, B.C.
SLEWISKIN PROPERTY LOCATION MAP NAKUSP AREA — SLOCAN M.D., B.C.		
SCALE AS SHOWN H.M.J.	APRIL 1984	FIG. 1

OWNERSHIP

All claims are 100% owned by Tillicum Gold Mines Ltd. 2793 - 595 Burrard St. Vancouver, B.C.

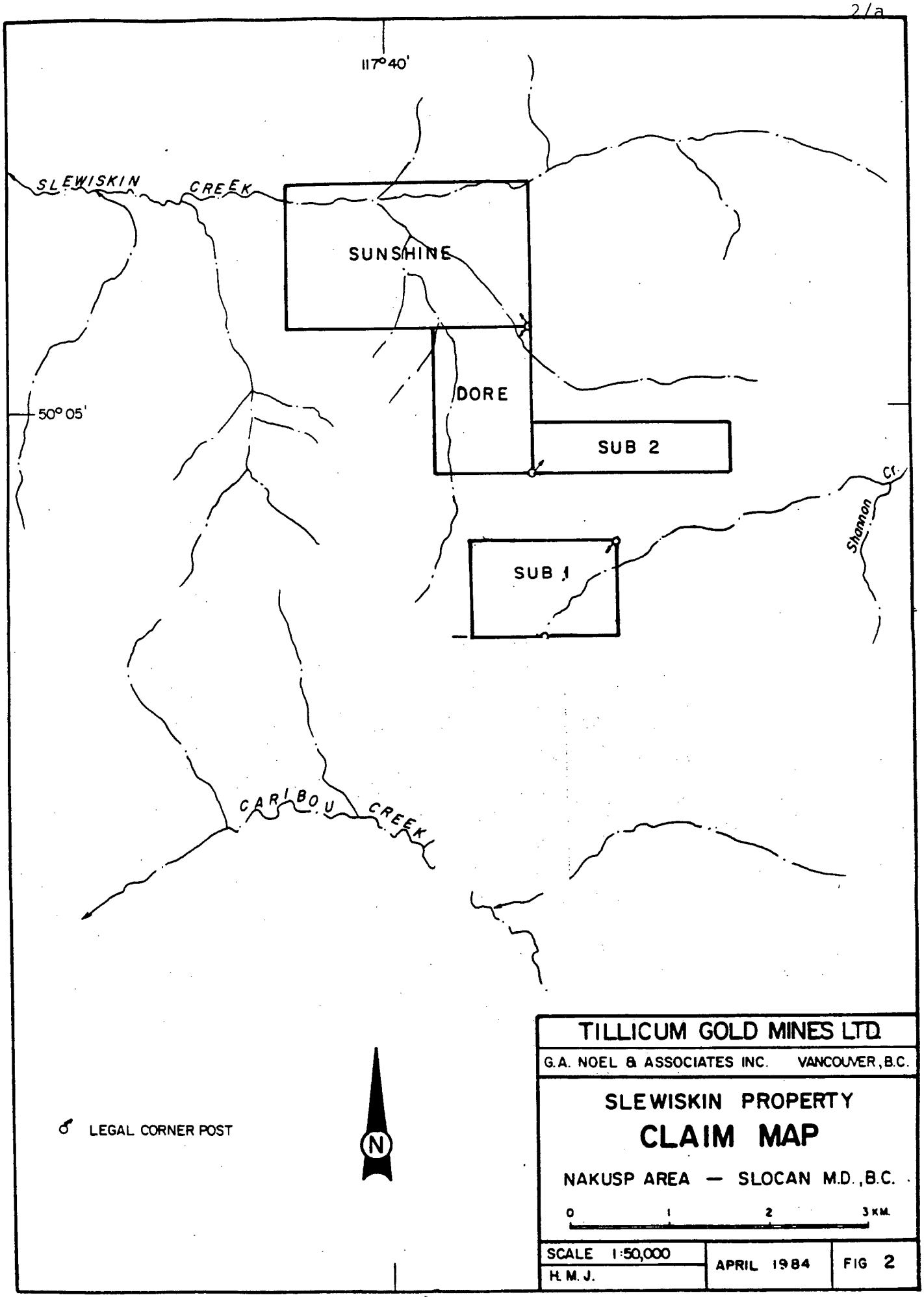
The folowing is a list of the claims within the Sleweskin Group. (Fig. 2).

CLAIM NAME	RECORD NO.	UNITS	DATE OF RECORD
SUNSHINE	4084	15	Sept. 23 1983
DORE	4085	6	"
SUB 1	4086	6	"
SUB 2	4087	4	"

These claims were all grouped into the Sleweskin Group in September, 1983. A survey, carried out in 1983, indicated considerable overstaking in the area. To remedy the land situation all but one of the original claims owned by Tillicum were abandoned and restaked between September 12th-22nd 1983.

HISTORY

the general area of the property was actively placered between the late 1800's and early 1900's. This work was centered around Burton, 19km southwest of the property. Following the termination of placer mining, activity persisted in the area until 1930. During this period a number of small gold and silver prospects were discovered and worked. The area became active again in 1980 after the discovery of a spectacular gold occurence on Tillicum Mountain.



TILLICUM GOLD MINES LTD.

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SLEWISKIN PROPERTY

CLAIM MAP

NAKUSP AREA — SLOCAN M.D., B.C.

0 1 2 3 KM.

SCALE 1:50,000 H. M. J.	APRIL 1984	FIG 2

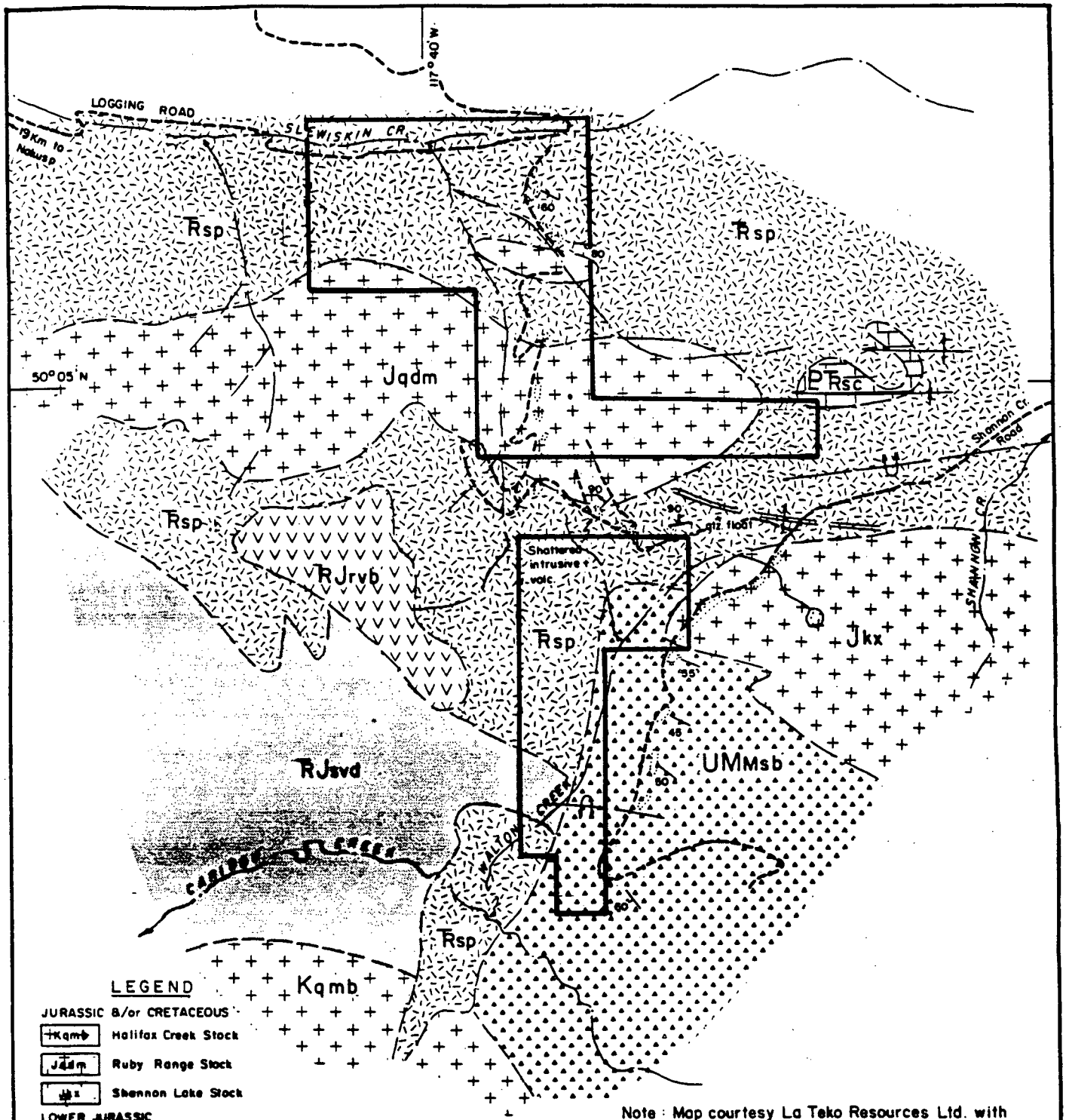
GEOLOGY

The geology of the are(Fig.3) includes Upper Missippian to Pennsylvanian or Permian Milford Group and Triassic to Lower Jurassic Slocan Group Metavolcanis, metasediments, sediments and flows. They lie in a Northwesterly-trending belt between the Slocan syncline to the north and the Valhalla dome to the south.

The structure of the area is complex and several periods of folding have been suggested. A generally easterly trend is developed about axial planes which dip to the north and are overturned increasingly southward towards the Valhalla Dome.

Intrusive rocks post-date the folding events. Jurassic and/or Cretaceous stocks envelop the Milford and Slocan Groups, as well as occuring within them as small stocks or plugs. A considerable part of the property is covered by alluvium which could mask other small stocks or plugs.

Several intrusive Slocan Group contacts occur on the northern part of the Sleweskin property, and one intrusive Milford Group contact is located on or near the southeastern claim boundary.



Note: Map courtesy La Teko Resources Ltd. with slight modifications by H. Jones, 1983

TILLICUM GOLD MINES LTD.

G.A. NOEL & ASSOCIATES INC. VANCOUVER, B.C.

SLEWISKIN PROPERTY
GEOLOGY MAP

NAKUSP AREA — SLOCAN M.D., B.C.

0 1 2 3 KM

SCALE 1:50,000	APRIL 1984	FIG. 3
H. M. J.		

GEOCHEMICAL SURVEY

A geochemical survey was carried out on the Sleweskin Group between October 3rd and October 12th 1984 to establish areas of anomalous gold values on the claims. A total of 36 soil samples were colloected by an experienced two-man crew under the supervision of the author.

The samples were gathered along control lines with a spacing of approximately 100meters and at intervals of 25 or 50 meters. B Horizon material, located between 24cm to 40cm, below surface, was sampled to avoid organic rich topsoil and leached upper sub-soil.

Samples were stored in kraft paper bags and submitted to Acme Analytical Labs for analysis for gold and mineral content.

RESULTS

Analyses of the soil samples were performed by Acme Analytical Labs and are listed in Appendixl. Appendix II includes analytical methods employed by the assaayer.

The results are plotted on Map 1 in the rear pouch, and show sample sites, analytical results, survey lines and claim boundaries.

INTERPRETAION

Soil samples were analyzed by ICP and gold was analyzed by atomic absorption. The results give a backgound value for gold as 6ppb. in the survey area. Threshold has been determined to be 23 ppbau and values above threshold are considered anomalous.

DISCUSSION

One area indicates the presence of anomalous gold values in the soils. The most significant area is along line 1, located just below the ridge on the Dore Claims

From previous work, this evidence suggests an anomaly open to the northeast, where quartz veins intrude the Ruby Range Stock. However, the presence of pyritized shale and geophysical highs over the area suggest that gold values may not be confined to quartz veins, and might in fact be dispersed throughout the shales.

GEOPHYSICAL SURVEYS

A geophysical survey was undertaken by two experienced field technicians under the supervision of geophysicist T. Walker, from September 9th to September 11th.

A magnetic survey and an electromagnetic survey were carried out simultaneously along three grid lines running north- south on the Dore claims, a total of 2line Km.

MAGNETIC SURVEY

A magnetic survey was carried out using a Scintrex 64 proton precession magnetometer.

Readings were taken at 25 meter intervals and total magnetic field intensity was recorded in gammas.

Diurnal variation was insignificant and no correction was required.

RESULTS

The results were submitted to geophysical consultan T. Walker, and plotted on drawing #2 (rear pouch(.

The results indicate a considerable increment in magnetic field intensity towards line 3, open to the east.

ELECTROMAGNETIC SURVEY

An electromagnetic survey was conducted using a standard Phoenix single coil VLF-2 receiver., tuned to the VLF transmeitter station in Seattle(24.8K Hz).

Dip- Angle, and Horizontal Field strength readings were taken at 25 meter intervals.

For Dip-Angle readings , the operator faced westerly toward the transmitting station, bearing S 89° W.

Horizontal Field strength readings were determined by placing the receiver coil axis perpendicular to the transmitter station in a horizontal position.

RESULTS

The results were submitted to Mr T. Walker and plotted on Drawing # 1(rear pouch).

The results indicate a coincidence of increased horizontal field strength with dip-angle cross over points.

DISCUSSION

The geophysical surveys carried out on the claims indicates the presence of a highly conductive body beneath surface.

The coincidence of VLF and magnetometer anomalies, with high gold values in soils, suggests the possibilty of a mineralized zone below surface.

The pattern indicated by this data shows that this zone extends to the east, over the ridge on the Dore claims.

CONCLUSION

Geochemical and geophysical surveys carried out on the Sleweskin Group Mineral claims indicates the presence of anomalous gold values in soils , associated with a highly conductive body.

The zone investigated appears to be open to the east and consequently, further surveys should be conducted to determine the eastward extent of this anomaly.

Diamond drilling should be initiated in conjunction with geological mapping and sampling of outcrops.

ITEMIZED COST STATEMENT

PERSONNEL		
12 days 2 man crew @ $ 180.00 per day		$2,160.00
ACCOMODATION AND BOARD		
MEALS		287.00
BOARD		212.00
EQUIPMENT		
SCINTEREX MAGNETOMETER		80.00
PHOENIX VLF_2		50.00
TRANSPORTATION		
GAS		135.88
4x4		52.08
ANALYSES		
36 soil samples ICP & Au @ $10.44		375.84
REPORT PREPARATION		300.00
	TOTAL	$ 3,652.00

I, Jonathan W. George certify to the following:

1. I am a geologist with Tillicum Gold Mines Ltd., 2793 - 595 Burrard st., Vancouver B.C.

2. My academic qualifictions are:

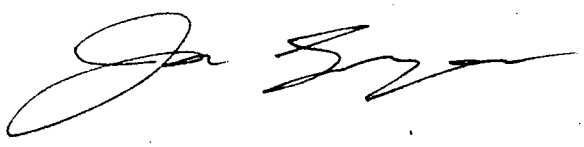
B.Sc (Geol.) Western Wash. Univ.

Bellingham, Wash.

3. I have been engaged in geological work for the past six years.

4. I am a director and major shareholder of Tillicum Gold Mines

5. Tillicum Gold Mines Ltd. has the sole right to the use of this report in any activities pertaining to the properties herein discussed.



DATED DECEMBER 5th 1985

APPENDIX I

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOILS -80 MESH AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 12 1985 DATE REPORT MAILED: Sept. 19/85 ASSAYER: D. Saundry. DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

TILLICUM GOLD FILE # 85-2355

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
SP-1	4	13	2	46	.1	1019	79	1226	5.68	5	5	ND	1	16	1	2	2	28	.28	.04	7	140	8.29	48	.06	10	.89	.02	.03	1	1
SP-2	7	7	6	34	.1	1490	96	1877	4.65	71	5	ND	1	2	1	2	2	8	.34	.02	5	305	17.75	7	.01	25	.19	.01	.01	1	2
SP-3	9	4	2	18	.1	1006	50	843	2.40	9	5	ND	1	1	1	2	2	1	.06	.01	2	56	20.75	1	.01	13	.04	.01	.01	1	1
SP-4	8	11	7	34	.1	1304	95	2103	4.41	9	5	ND	1	1	1	2	2	4	.18	.01	5	129	19.09	2	.01	16	.12	.01	.01	1	11
SP-5	7	23	6	40	.1	1552	125	2185	4.95	8	5	ND	1	5	1	2	2	9	.25	.02	5	166	16.30	17	.02	11	.37	.01	.02	1	2
SP-6	6	19	9	42	.2	1159	103	1712	4.85	7	5	ND	1	9	1	2	2	17	.35	.04	7	170	12.85	24	.03	5	.60	.01	.02	1	1
SP-7	7	23	12	41	.1	1474	91	2354	3.96	7	5	ND	1	6	1	2	2	11	.23	.03	6	171	15.40	20	.02	9	.36	.01	.02	1	3
SP-8	7	18	12	44	.1	1195	110	1420	4.77	8	5	ND	1	2	1	2	2	15	.05	.02	4	595	17.80	7	.01	10	.28	.01	.01	1	1
SP-9	6	36	9	52	.1	867	99	1442	4.24	7	5	ND	1	6	1	2	2	25	.27	.05	6	383	12.67	17	.03	12	.51	.01	.01	1	2
SP-10	5	12	9	50	.1	1024	74	1294	4.93	7	5	ND	1	10	1	2	2	19	.28	.05	7	115	11.42	20	.04	17	.66	.01	.02	1	1
SP-11	7	14	5	35	.1	1328	88	1629	4.13	7	5	ND	1	3	1	2	2	7	.32	.02	4	164	16.65	11	.01	15	.25	.01	.01	1	3
SP-12	6	20	4	39	.1	1067	88	1586	3.79	7	5	ND	1	8	1	2	2	16	.20	.04	4	166	13.33	17	.03	5	.47	.01	.02	1	1
SP-13	5	15	5	38	.1	964	85	1366	3.82	5	5	ND	1	10	1	2	2	16	.20	.04	4	162	12.49	19	.03	3	.44	.01	.02	1	1
SP-14	2	54	2	46	.1	435	50	803	3.56	3	5	ND	1	12	1	2	2	46	.37	.08	5	169	3.60	34	.11	8	1.22	.02	.03	1	1
SP-16	2	41	7	49	.1	420	73	1205	3.41	3	5	ND	1	16	1	2	2	41	.49	.06	7	189	4.12	53	.09	5	1.22	.02	.03	1	1
SP-17	2	24	5	52	.1	644	62	1005	4.28	5	5	ND	1	15	1	2	2	38	.52	.08	6	261	5.29	59	.09	11	1.53	.02	.04	1	1
SP-18	1	34	8	59	.1	646	48	912	4.17	2	5	ND	2	24	1	2	2	46	.65	.08	10	205	3.03	98	.12	10	2.54	.02	.06	1	1
GS-1	5	31	12	416	1.2	29	14	516	4.06	9	5	ND	3	23	3	2	2	61	.11	.16	11	19	.50	100	.09	2	4.10	.01	.04	1	1
GS-2	10	94	14	586	.6	57	20	697	5.03	13	5	ND	4	28	3	2	2	77	.23	.14	16	26	1.03	98	.07	4	2.55	.01	.07	1	2
AR-1	1	122	11	57	.1	96	27	809	4.06	11	5	ND	1	25	1	2	3	84	.57	.04	8	106	2.17	51	.05	9	2.81	.01	.07	1	8
0 0+50	4	18	4	33	.1	1315	64	737	4.37	7	5	ND	1	12	1	2	2	27	.13	.04	7	369	9.15	26	.05	48	.75	.02	.03	1	6
0 1+00	5	12	9	30	.1	1610	72	954	4.34	10	5	ND	1	10	1	2	2	24	.12	.05	5	395	11.20	25	.04	54	.75	.01	.04	1	1
0 1+50	6	19	3	32	.1	1775	78	1039	4.09	13	5	ND	1	10	1	2	2	21	.13	.04	5	430	12.50	28	.03	49	.95	.01	.03	1	1
0 2+00	5	18	9	38	.1	1892	94	1315	4.96	28	5	ND	1	10	1	2	2	30	.12	.05	6	535	11.08	33	.05	42	1.17	.01	.05	1	6
1 0+00	2	8	9	29	.1	584	30	293	3.54	8	5	ND	1	18	1	2	2	30	.12	.02	6	297	3.26	64	.06	14	.85	.02	.02	1	1
1 0+50	4	22	5	40	.2	2166	72	843	4.60	39	5	ND	2	15	1	2	2	28	.11	.03	9	461	9.09	33	.05	37	1.22	.01	.04	1	6
1 1+00	3	16	7	35	.1	851	49	779	3.79	16	5	ND	1	20	1	2	2	30	.25	.06	5	430	5.90	53	.05	26	.97	.02	.03	1	6
1 1+50	3	12	4	38	.1	925	53	931	4.10	8	5	ND	1	16	1	2	2	30	.19	.05	6	401	6.18	39	.05	26	.69	.02	.03	1	1
1 2+00	3	12	6	34	.1	862	47	781	3.80	4	5	ND	1	16	1	2	2	30	.22	.05	4	364	6.00	32	.05	27	.58	.02	.03	1	1
1 2+50	4	10	7	30	.1	1091	53	895	3.77	4	5	ND	1	11	1	2	2	27	.13	.04	4	396	7.33	27	.04	31	.64	.01	.03	1	1
1 3+00	4	12	7	30	.1	1294	53	642	3.89	6	5	ND	1	12	1	2	2	23	.12	.03	6	417	8.42	24	.04	44	.74	.01	.02	1	1
1 3+50	4	22	4	34	.4	1640	79	991	4.79	22	5	ND	1	22	1	2	2	29	.24	.04	5	586	8.40	24	.04	37	.94	.01	.06	1	41
1 4+00	4	25	11	34	.2	1538	75	961	4.56	29	5	ND	1	11	1	3	2	29	.11	.04	6	569	9.41	24	.03	46	.84	.01	.03	1	50
1 4+50	5	22	6	33	.1	1680	76	847	4.76	29	5	ND	1	12	1	4	2	24	.12	.04	5	553	10.70	20	.03	38	.84	.01	.03	1	105
1 5+00	4	16	5	34	.1	1464	64	593	4.25	21	5	ND	1	12	1	3	2	19	.09	.04	7	404	10.21	20	.03	36	.62	.01	.04	1	16
1 5+50	4	22	4	37	.1	1463	73	921	4.69	22	5	ND	1	13	1	2	2	25	.14	.06	3	462	8.78	28	.04	37	.83	.01	.05	1	28
STD C/AU-0.5	21	59	37	126	6.9	69	29	1140	3.93	38	17	7	35	50	17	15	21	57	.48	.15	38	56	.88	178	.07	39	1.72	.06	.10	11	500

APPENDIX II

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone : 253 - 3158

Geochem Whole Rock

A .1 gm sample is fused with .6 gm $LiBO_2$ and is dissolved in 100 mls of 5% HNO_3 . The analysis is completed by either AA or ICP.

Other Digestions by Request

A. .5 gm by 1 ml nitric and 3 ml perchloric acid to fuming, final volume of 10 mls.

B. .5 gm by 5 ml hydrofloric nitric, 5 ml hydrochloric and 5 ml perchloric acid, to fuming, final volume 50 mls.

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM OF SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 NITRIC ACID TO HYDROCHLORIC ACID TO WATER AT 90 DEG. C FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THE RESULTS ARE REPORTED IN PPM EXCEPT FOR : FE, CA, P, MG, BA, TI, AL,NA, AND K WHICH ARE IN PERCENT.
THIS LEACH IS PARTIAL FOR : CA , P, MG, AL, TI, LA, NA, K, W & CR
IS= INTERNAL STANDARD.

O/USA CERTIFIED STD GXR-2
EGC

BURN # 1 30GE 14:17 23FEB82

IS									
1367									
MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
1.09	69.6	647	496	14.7	13.6	6.62	843	1.61	20.9
U	AU	TH	SR	CD	SB	BI	V	CA	P
3.37	2.32	3.07	65.9	4.06	38.1	2.52	34.9	.676	.070
LA	CR	MG	BA	TI	B	AL	NA	K	W
18.3	18.9	.421	".104	.063	20.1	2.78	.116	.436	.187

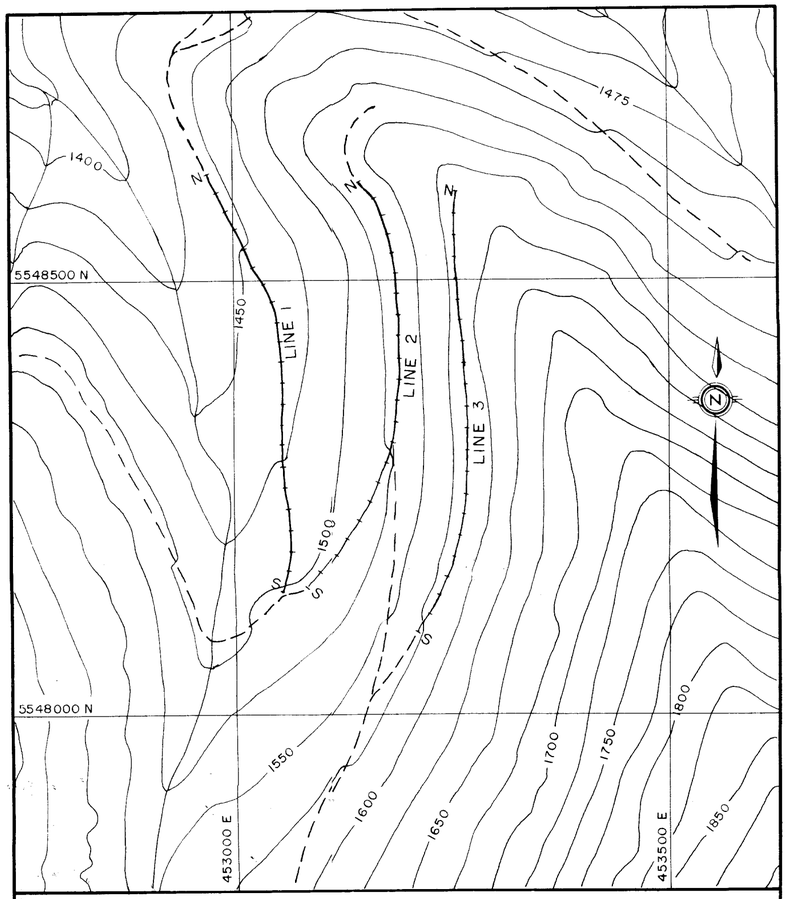
*O/USA CERTIFIED STD GXR-4
EGC

BURN # 1 30GE 14:19 23FEB82

IS									
1367									
MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS
284	5503	49.0	58.3	2.91	31.1	10.4	102	2.77	113
U	AU	TH	SR	CD	SB	BI	V	CA	P
7.68	1.53	12.0	57.1	2.76	2.04	19.0	68.3	.786	.168
LA	CR	MG	BA	TI	B	AL	NA	K	W
42.7	54.2	1.42	.011	.116	6.62	2.45	.099	1.27	9.05

ICP Notes

This type of analysis is most suited for low sulphide or metal contents of soils and rocks.
* Detection for Au is 3 ppm and ignore lower values.



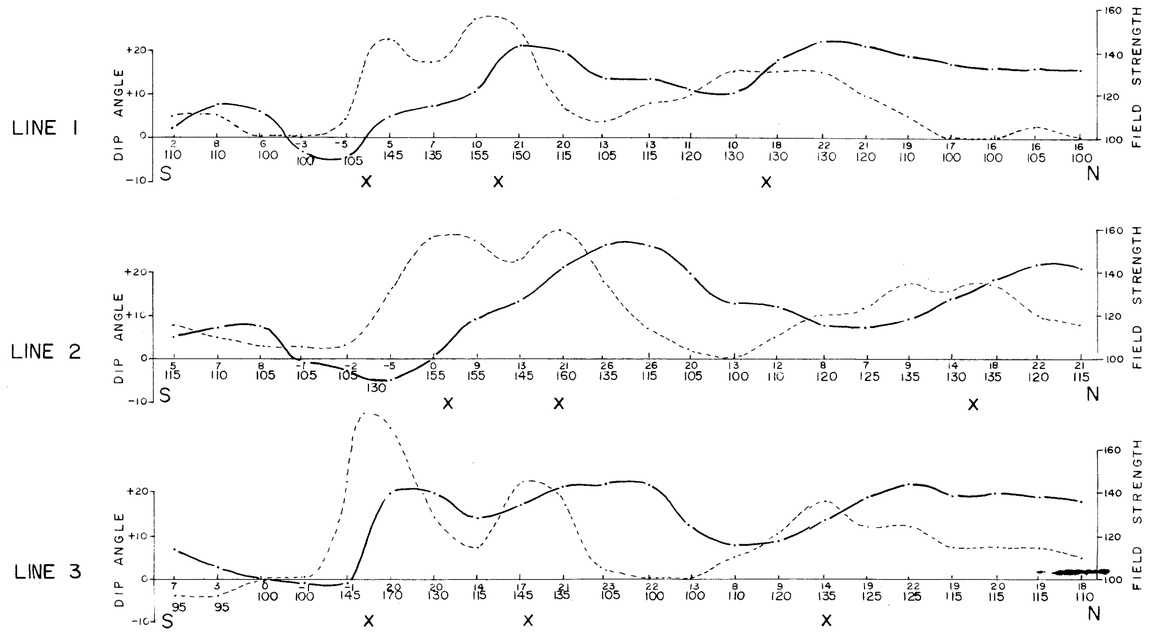
LOCATION MAP

SHOWING

SURVEY LINES 1, 2, & 3

SCALE 1 : 5000

CONTOUR INTERVAL 25 METERS



DIP ANGLE & FIELD STRENGTH PROFILES

HORIZONTAL SCALE - 1 : 2500

VERTICAL SCALE - 1 cm. = 10° - 1 cm. = 20 F.S. units

LEGEND

DIP ANGLE

RELATIVE HORIZONTAL FIELD STRENGTH

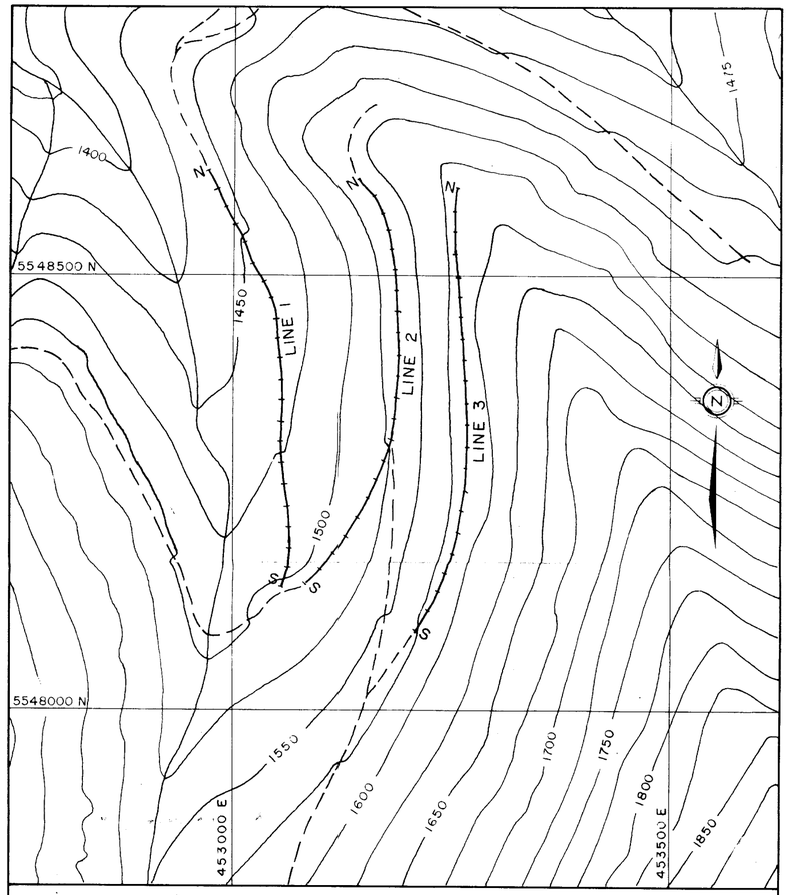
CROSS-OVER (DIP ANGLE) X

VLF TRANSMITTER - SEATTLE (24.8 kHz)

TX BEARING S89°W

0 100 200 300
METERS

TILLICUM GOLD MINES LTD.		
SLEWESKIN PROPERTY		
VLF-EM SURVEY		
NTS No. 82K4E	SURVEY BY J. GEORGE D. BURKETT	DATE NOV. 1985
DWG No. 1.	DRAWN BY T. Walker	SCALE 1 : 2500



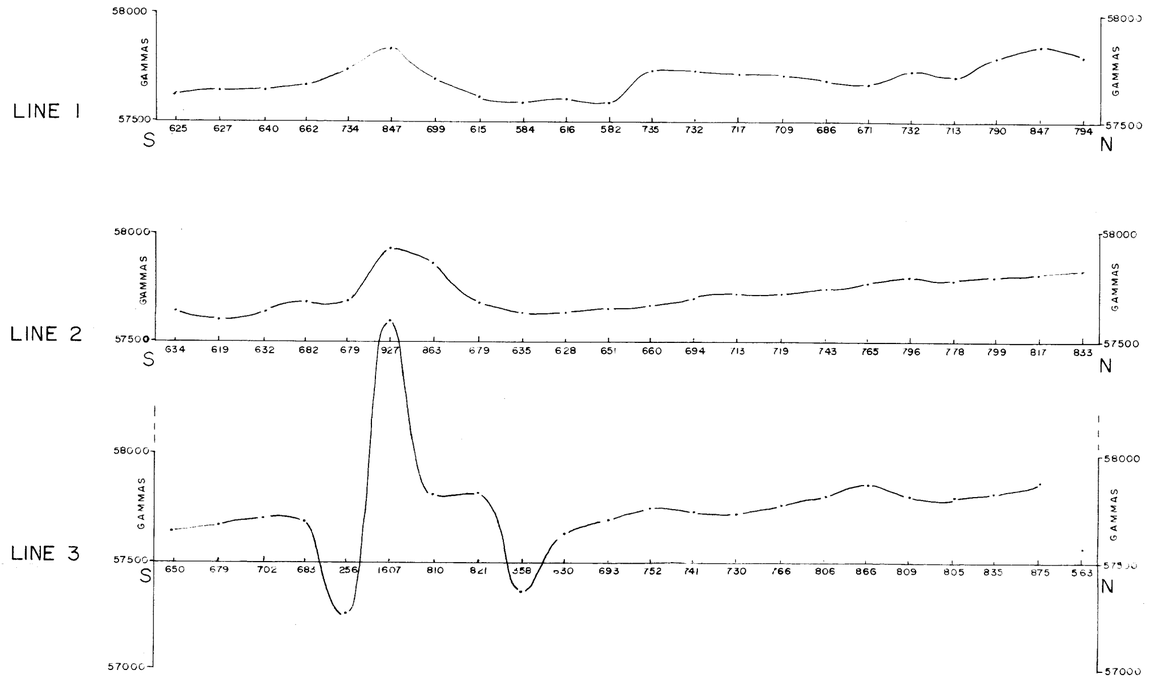
LOCATION MAP

SHOWING

SURVEY LINES 1, 2, & 3

SCALE 1 : 5000

CONTOUR INTERVAL 25 METERS



TOTAL MAGNETIC FIELD PROFILES

HORIZONTAL SCALE - 1 : 2500

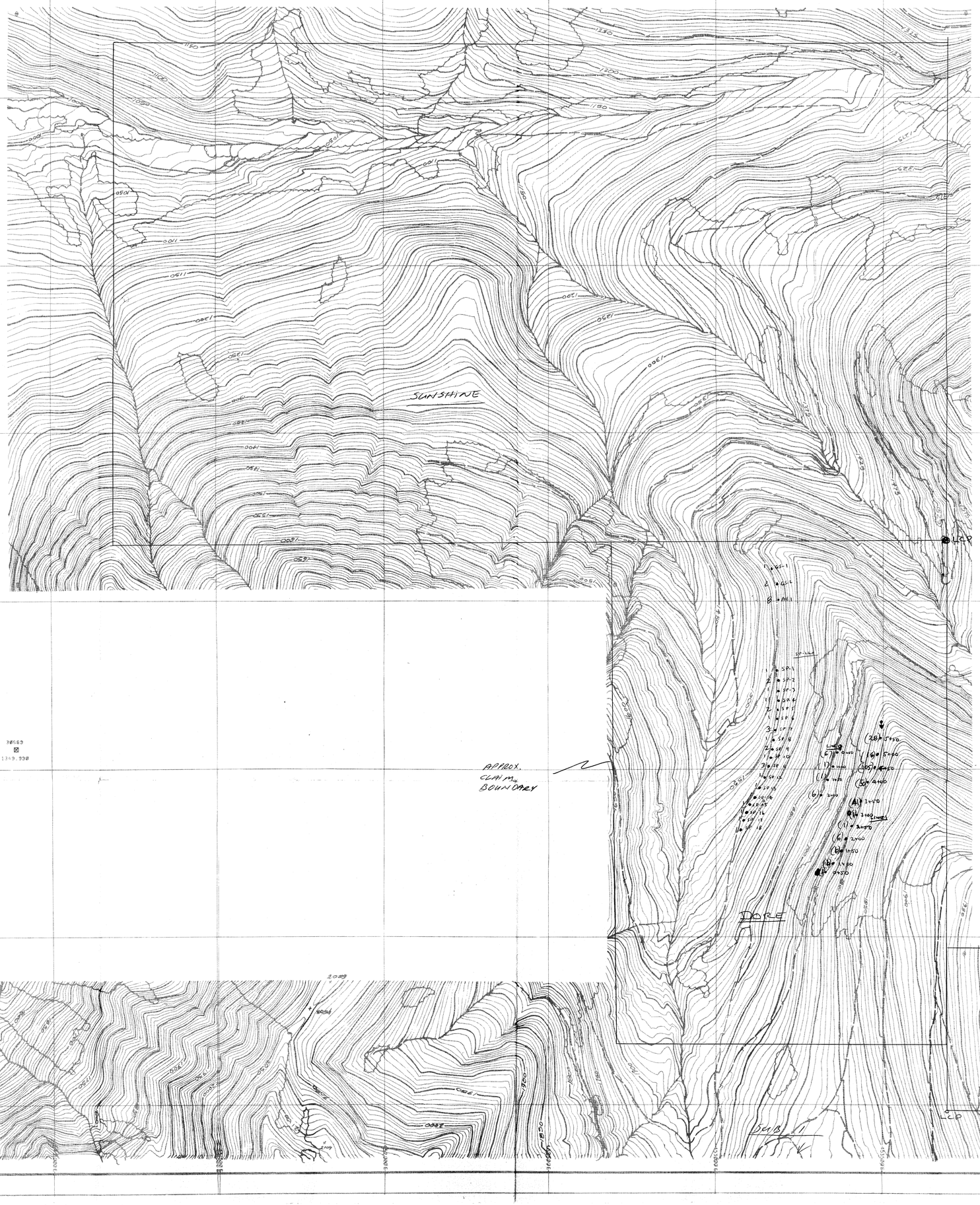
VERTICAL SCALE - 1 cm. = 200 gammas

0 100 200 300
METERS

TILLICUM GOLD MINES LTD.		
SLEWESKIN PROPERTY		
MAGNETOMETER SURVEY		
NTS No. 82K4E	SURVEY BY J. GEORGE D. BURKETT	DATE NOV. 1985
DWG No. 2	DRAWN BY T. Walker	SCALE 1 : 2500

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,179



JOB: 40867-0 SCALE: 1/5000 ID: TILLICUM/NAKUSP MS-2