

Prospecting Report on the
DAWN #100 CLAIMS (12 UNITS)

Record No. 1517

Wilson Landing Area - Vernon Mining Division
Kelowna, B.C.

N.Lat $49^{\circ} 59'$ /W.Long. $119^{\circ} 31'$ /82E 13 & 14

For

Tillicum Gold Mines Ltd. (Owner-Operator)
#319-470 Granville Street,
Vancouver, B.C. V6C 1V5

By

Jonathan W. George (B.Sc. Geol.)

With

George P. Krueckl, P.Eng. (Consultant)

May 19, 1984

**GEOLOGICAL BRANCH
ASSESSMENT PROJECT**

12,732

TABLE OF CONTENTS

	Page
Introduction	1
Location and Access	1
Topography and Vegetation	1
Ownership	1
History	3
Geology	5
Propsecting - description of observations	5
Results	8
Interpretation	10
Discussion	10
Conclusion	10
Itemized Cost Statement	11
Author's Qualifications	12
Fig. 1 Location Map	2
Fig. 2 Topographic and claim plan	4
Fig. 3 Underground working and surface trenches with sample locations	6
Appendix I	
- Assay Certificates	
Appendix II	
- Laboratory Methodology	

Introduction

This report is an evaluation of prospecting work carried out on the Dawn #100 mineral claims between June 20, 1983 and April 16, 1984.

Location and Access

The property is located 10 kilometres northwest of Kelowna, B.C. immediately west of Wilson's Landing on the west shore of Okanagan Lake (Fig. 1). Logging roads which parallel the shore of the Lake are about elevation 1100 meters connect with Highway 97 and the Blue Grouse mountain T.V. road to provide access to the property. Figure 2 shows the approximate location of these roads.

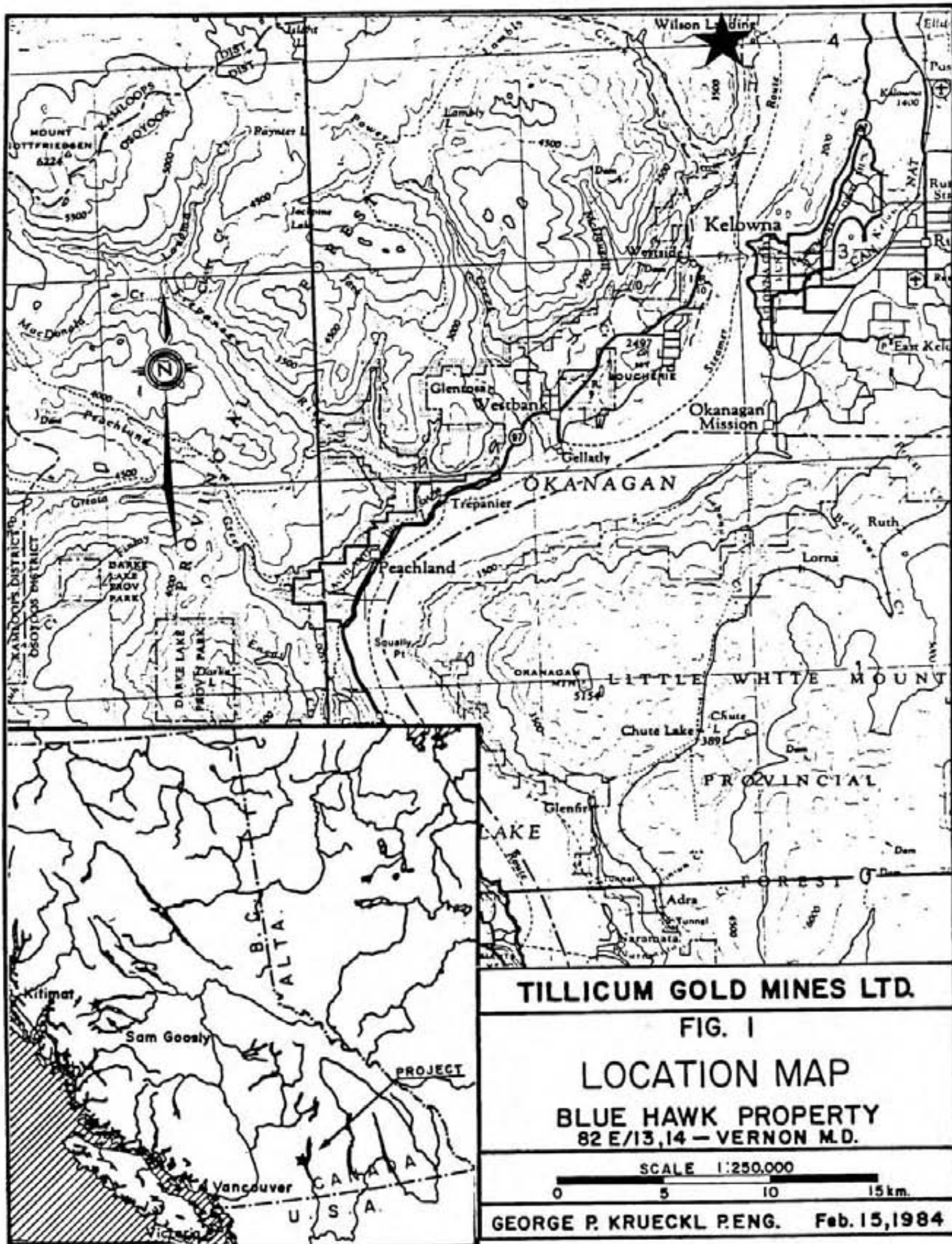
Topography and Vegetation

The topography of the area is mountainous, relief ranging between 350 meters and 1,300 meters above sea level. The Blue Hawk Adit and trenches on the claim are located at an elevation of approximately 900 metres above sea level. Typical of the Okanagan Valley, tree cover ranges from light to heavy depending on elevation, the lower slopes having lighter tree cover. Figure 2 shows the topography of the ore.

Ownership

The Dawn #100 claim is wholly owned and operated by Tillicum Gold Mines Ltd. and are located in the Vernon Mining Division in NTS 82E/13 and 14.

Information on file with the British Columbia Ministry of Energy, Mines and Petroleum Resources at Vernon, British Columbia is as follows:



<u>Claim Name</u>	<u>Units</u>	<u>Record No.</u>	<u>Expiry Date</u>	<u>Recorded Holder</u>
Dawn 100	4 x 3 =12	1517(6)	June 1,1984	C. Graham

100% interest in the Dawn #100 claims has been acquired by Tillicum Gold Mines Ltd. via bill of sale.

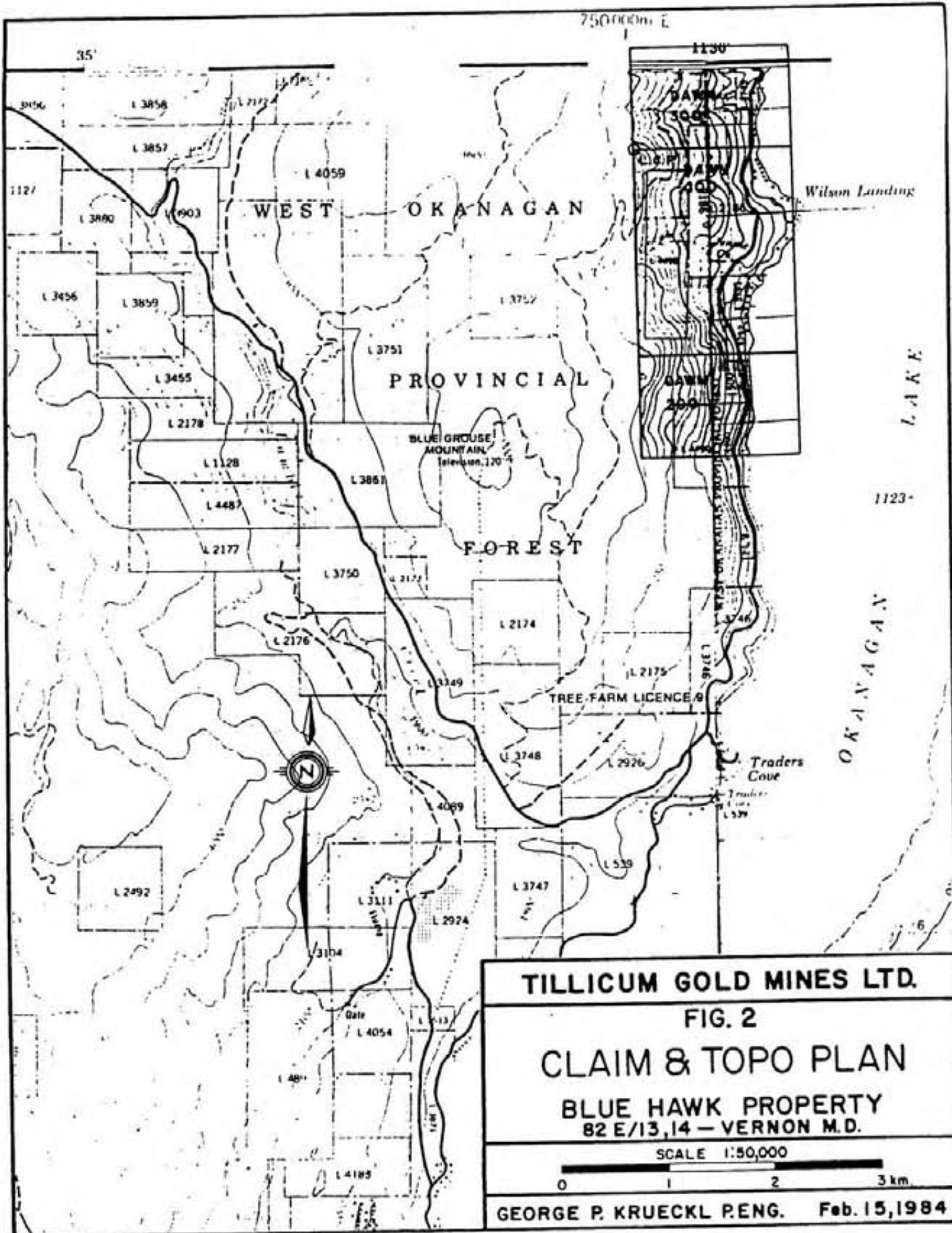
History - Previous Development and Mineralization

The Prospect covers old trenches and underground workings of the Old Blue Hawk mine reported in the B.C. Minister of Mines Report for 1933, 1935 and 1938, and represents work carried out by the former Blue Hawk Syndicate of Kelowna. This early work consisted of exploring several quartz veins ranging from narrow fracture fillings to veins 4 feet thick. Some of this work also involved sinking shallow shafts up to 10' deep. In 1932 one of these, believed to be adjacent to the old work shop, assayed up to \$32.25 in gold and silver and in 1935, 5 tons was presumably shipped from this shaft.

Also in 1932, several trenches were dug and the Blue Hawk adit was advanced to 8 meters. The Blue Hawk was extended to 150 metres (its present length) in 1938.

No additional exploration work has been recorded since then until the late 1960's when several geological reports were prepared on the property and between 1969 and 1972 Dawood Mines Ltd. of Merritt, B.C. carried out 425 lineal meters of trenching, 17.7 kilometers of line cutting and grid preparation, magnetometer surveys, geological mapping and geochemical soil sampling.

Tillicum gold optioned the ground in 1983 and carried out some preliminary sampling in old trenches to confirm gold values. One of these samples ran .24 oz per ton gold.



Regional Geology

The Dawn #100 mineral claims are situated on the western edge of the Sluswap metamorphic complex - a broad terrain underlain by multiphase granitic plutons which enclose narrow belts of sedimentary rocks. Near Okanagan Lake, the sediments probably belong to the Cache Creek Group (Permians), and the plutons to large batholiths formed during the Jurassic Cretaceous.

Numerous precious metal, copper, lead and zinc prospects occur in altered Cache Creek sediments west of Vernon and south along the shores of Okanagan Lake to Kelowna. All of these prospects have received development work in past years, some have recorded work in past years, some have recorded past gold production but none are currently operating. All of the deposits are vein and types and in addition to their gold and silver content, contain chalcopryrite, pyrite, pyrrhotite, arsenopyrite, galena and sphalerite.

Prospecting - Description of Observations

The author made numerous visits to the property between June, 1983 and April, 1984, accompanied by consultant George Krueckl, P. Eng. The following observations are based on these visits:

Prospecting and sampling was limited to the area shown in Fig. 3. Adits and trenches developed by previous workers were systematically sampled to determine the precious metal content of the exposed structures.

contd/.....

Prospecting - Description of Observations (contd.)

The veins exposed on the property occur along shear or fracture zones in hornblende diorite and more rarely in Cache Creek sediments close to diorite contacts. The veins are mainly milky quartz with minor disseminated pyrite, and rarely, galena. Most are one to two feet thick but vary considerably in thickness over a strike length of a few feet. Northeast striking faults are common, and these appear to offset and truncate the veins at some localities.

Earlier workers have selectively extracted pyrite-rich zones within the veins, suggesting that gold and pyrite are associated. Pyrite forms small disseminated grains, crystal aggregates and thin fracture fillings within the veins.

Previous underground work done on the Blue Hawk adit exposed two veins having azimuth directions 305° and 335° (Fig. 3). Each of these may have been faulted in the northeast direction and in one case may have dissipated into the wall rock. The surface vein showings however, appeared to be much more continuous than the underground vein showings. At surface, two of the vein directions (305° and 335°) were identified in the trenches directly above the Blue Hawk adit.

Sampling of mineral showings in underground workings and trenches was carried out. The results have been plotted on Fig. 3.

ASSAYS (SEE FIG 3)

Trench No.	Au oz/T	Ag ppm	Sample No.	Adit	Au oz/T	Ag ppm	Distance (M) & Sample No.
1	.001 .001 .001	.5 .1 .01 (oz/t)	9615D B9 87055	Blue Hawk	.001 .001 .001	.2 .2 .3	0 + 00 0 + 10 0 + 20
2	.002 .114 .001 .001	.4 10.7 .3 .01 (oz/t)	9617D 9618D B8 87054		.001 .001 .001 .001	.3 .2 .2 .4	0 + 30 0 + 40 0 + 50 0 + 60
3	.012 .001 .001	2.3 .2 .01 (oz/t)	9616D B7 87053		.001 .001 .001	.2 .1 .1	0 + 70 0 + 80 0 + 90
4	.001 .001 .001	.3 .3 .01 (oz/t)	9614D B6 87052		.001 .001 .001	.2 .2 .4	1 + 00 1 + 10 1 + 20
5	.001 .047 .001 .001 .243	.1 25.0 .3 .01 (oz/t) .67 (oz/t)	9613D 9619D B5 87051 AB-4		.001 .002 .001	.1 .2 .4	1 + 30 1 + 40 1 + 50
6	.001 .001 .008 .001	.4 .4 .06 (oz/t) .01 (oz/t)	9612D 9611D AB-3 87056	Lower adit Tailings	.001 .001 .001	.2 .5 .5	9602D 9601D B-1
7	.001 .004 .007 .001 .001	.5 .7 .05 (oz/t) .1 .01 (oz/t)	9610D 9609D AB-2 B3 87058				
8	.001 .001 .002 .001	.2 .4 .01 (oz/t) .01 (oz/t)	9608D B2 AB-1 87059				
9	.013	3.0	9607D				
10	.001 .13	.4 .13 (oz/t)	9606D 87060				
11	.08	.047 (oz/t)	87061				
12	.04	.006 (oz/t)	87062				
13	.001 .01	.1 .007 (oz/t)	9605D 82063				

Assays (contd.)

<u>Trench</u> <u>No.</u>	<u>Au</u> <u>oz/T</u>	<u>Ag</u> <u>ppm</u>	<u>Sample</u> <u>No.</u>	<u>Adit</u>	<u>Au</u> <u>oz/T</u>	<u>Ag</u> <u>ppm</u>	<u>Distance (M)</u> <u>& Sample No.</u>
14	.001	.3	9604D				
	.01	.007 (oz/t)	<u>87064</u>				
15	.001	.3	9603D				

Results

Analyses performed by Acme Analytical Laboratories are listed in Appendix I. Appendix II includes analytical methods used by Acme.

Chip samples were assayed for gold and silver content. A total of 38 samples were submitted. Six of these were re-assayed for gold content.

Sampling of mineral showings in trenches and adits carried out by the writer indicate highly erratic gold values. Values ranged from trace to .243 oz/ton gold and silver from trace to .67 oz/ton.

Interpretation

Gold values have been shown to be erratically distributed throughout the vein structures over a fairly large area. Trenching carried out in the past exposed quartz veins containing gold mineralization. Initial prospecting indicates that a detailed geological survey is required to better understand the significance of the mineralization and geological structures found on the property.

Conclusion

Prospecting carried out on the Dawn #100 claims, indicates the presence of significant but erratic gold values in quartz veins. Detailed geological mapping and surveying are required to further understand the extent and nature of mineralization on the property.

Itemized Cost Statement

Includes costs attributable to bill
received to date

Personnel

6 working days 2 men	\$ 1,200.00	
4 working days 1 geologist	<u>800.00</u>	
		\$ 2,000.00

Accommodation and Board

Meals	\$ 245.00	
Rooms	<u>187.00</u>	
		432.00

Equipment

Topo line	\$ 20.00	
Flagging	<u>18.00</u>	
		38.00

Transportation

Gas	\$ 310.00	
Vehicle (4 x 4)	<u>215.00</u>	
		525.00

Analysis

53 Rock samples at 12.00 per sample		636.00
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Report Preparation

	<u>200.00</u>	
		\$ 3,831.00

May 19, 1984

Author's Qualifications

I, Jonathan W. George certify to the following:

1. I am a geologist with Tillicum Gold Mines Ltd. 319-470 Granville Street, Vancouver, B.C. V6C 1V5
2. My academic qualifications are:
B.Sc.(Geol). Western Washington University, Bellingham, Washington, U.S.A.
3. I have been engaged in geological work for the past five years
4. I am a director and shareholder of Tillicum Gold Mines Ltd.
5. Tillicum Gold Mines Ltd. has the sole right to the use of this report in any activities pertaining to the property herein described.



May 19, 1984

Appendix I



To: Tillicum Gold Mines Ltd.,
Ground Floor - 470 Granville St.,
Vancouver, B.C.
V6C 1V5

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone: 253-3158

83-0952

File No. _____

Type of Samples Rock

Disposition _____

ASSAY CERTIFICATE

No.	Sample	Ag oz/ton	Au oz/ton						No.
1	AB - 1	.01	.002						1
2	2	.05	.007						2
3	3	.06	.008						3
4	AB - 4	.67	.243						4
5									5
6									6
7									7
8									8
9									9
10									10
11									11
12									12
13									13
14									14
15									15
16									16
17									17
18									18
19									19
20									20

All reports are the confidential property of clients.

DATE SAMPLES RECEIVED June 27, 1983

DATE REPORTS MAILED June 29, 1983

ASSAYER

=====

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED NOV 15 1983

DATE REPORTS MAILED

Nov 24/83

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PRULVERIZED TO -100 MESH.
AG & AU BY FIRE ASSAY

ASSAYER *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

TILlicum GOLD MINES

FILE # 83-2927

PAGE# 1

SAMPLE	AG OZ/TON	AU OZ/TON
087051	.01	.001
087052	.01	.001
087053	.01	.001
087054	.01	.001
087055	.01	.001
087056	.01	.001
087057	.01	.001
087058	.01	.001
087059	.01	.001
087060	.13	.003
087061	.08	.047
087062	.04	.006
087063	.01	.002
087064	.01	.007

ASSAY CERTIFICATE

GEOCHEMICAL ICP : A .500 GRAM SAMPLE IS DIGESTED WITH 3ML OF 3:1:3: HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR .THEN DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Sr,Cr AND B. Au DETECTION 3 ppm.
AUI BY REGULAR ASSAY. SAMPLE TYPE - ROCK CHIPS

DATE RECEIVED NOV 10 1983

DATE REPORTS MAILED Nov 16/83ASSAYER AL Jopey

DEAN TOYE, CERTIFIED B.C. ASSAYER

TILlicum GOLD MINES FILE # 83-2902

PAGE # 1

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 g/t
B-1	47	19	3	9	.5	4	5	386	1.09	14	2	ND	3	70	1	2	2	7	2.86	.01	2	4	.08	8	.01	3	.12	.01	.02	2	.001
B-2	12	25	2	3	.4	6	2	238	.67	6	2	ND	2	31	1	2	2	4	1.31	.01	2	6	.04	3	.01	3	.08	.01	.03	2	.001
B-3	1	47	3	35	.1	10	17	473	3.86	9	6	ND	5	37	1	2	2	133	1.63	.14	3	14	1.26	98	.22	3	1.83	.14	.73	2	.001
B-5	1	62	6	94	.3	5	14	770	4.08	5	2	ND	5	45	1	2	2	128	2.67	.14	4	3	1.96	30	.17	2	2.02	.10	.16	2	.001
B-6	12	74	5	27	.3	5	6	355	1.93	3	4	ND	2	20	1	2	2	45	1.00	.04	3	3	.38	17	.06	2	.67	.05	.06	2	.001
B-7	1	116	8	50	.2	10	15	609	4.06	46	2	ND	4	101	1	2	2	124	3.54	.10	4	7	1.03	18	.10	6	1.80	.07	.16	2	.001
B-8	1	79	12	39	.3	9	12	788	3.76	152	2	ND	4	130	1	2	2	110	5.41	.06	3	13	1.02	25	.10	4	1.58	.05	.23	2	.001
B-9	8	117	7	34	.1	13	16	599	4.20	17	2	ND	4	82	1	2	2	142	3.18	.10	3	24	1.48	40	.20	5	2.09	.11	.38	2	.001
B-0+00	1	111	5	30	.2	7	13	539	3.91	11	2	ND	3	109	1	2	2	123	4.21	.10	3	9	1.15	41	.16	12	1.86	.10	.27	2	.001
B-0+10	1	210	6	32	.2	6	15	505	3.96	5	2	ND	5	90	1	2	2	117	2.95	.10	5	4	1.02	36	.18	3	1.62	.10	.44	2	.001
B-0+20	2	132	4	30	.3	7	9	406	3.15	8	2	ND	4	67	1	2	2	91	2.59	.06	4	17	.74	26	.12	4	1.04	.06	.17	2	.001
B-0+30	1	108	3	29	.3	6	10	609	3.17	4	2	ND	4	103	1	2	2	88	6.37	.10	8	6	.77	24	.09	11	1.31	.05	.18	2	.001
B-0+40	1	93	5	30	.2	9	13	560	3.34	5	2	ND	3	89	1	2	2	122	3.66	.08	3	7	1.13	21	.15	3	1.57	.07	.20	3	.001
B-0+50	1	103	6	44	.2	11	17	731	4.91	51	2	ND	5	76	1	2	2	159	3.69	.10	5	8	1.41	26	.13	7	2.26	.06	.38	2	.001
B-0+60	2	91	7	35	.4	8	10	725	3.60	49	2	ND	4	129	1	2	2	74	5.32	.07	6	6	.72	19	.04	6	1.36	.03	.22	2	.001
B-0+70	1	107	6	46	.2	14	19	637	4.90	13	2	ND	5	62	1	2	2	161	3.23	.10	4	15	1.42	26	.17	3	2.03	.09	.27	2	.001
B-0+80	1	110	8	40	.1	12	20	636	3.85	38	2	ND	6	81	1	2	2	135	3.69	.10	11	8	.94	15	.07	7	1.70	.04	.14	2	.001
B-0+90	1	96	6	33	.1	10	14	550	3.60	10	2	ND	4	109	1	2	2	141	3.47	.10	6	12	1.12	24	.16	6	1.68	.08	.17	2	.001
B-0+100	1	67	6	34	.2	11	15	488	3.57	8	10	ND	4	75	1	2	2	136	2.23	.10	3	10	1.30	24	.21	4	1.92	.11	.20	2	.001
B-1+10	1	46	6	39	.2	9	15	640	4.36	9	2	ND	5	86	1	2	2	154	3.04	.11	4	8	1.31	27	.17	3	1.97	.10	.21	2	.001
B-1+20	1	54	10	49	.4	11	15	645	4.45	8	2	ND	6	117	1	2	2	146	3.11	.11	2	6	1.38	54	.19	4	2.37	.12	.40	2	.001
B-1+30	1	36	5	47	.1	10	16	622	4.32	7	2	ND	3	90	1	2	2	150	2.74	.14	3	14	1.40	51	.20	3	2.11	.10	.29	2	.001
B-1+40	1	58	7	26	.2	5	9	533	2.97	85	2	ND	4	93	1	2	2	77	4.13	.09	4	4	.65	15	.08	8	1.26	.05	.10	2	.002
B-1+50	1	214	11	45	.4	8	13	553	4.26	169	2	ND	5	114	1	2	2	76	3.55	.09	7	6	.65	21	.01	11	1.56	.02	.24	2	.001
STD A-1	1	30	39	183	.3	35	13	1015	2.83	9	2	ND	3	36	1	2	2	58	.59	.10	7	76	.68	275	.08	8	2.00	.02	.21	2	-

16/10/83

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

ASSAY CERTIFICATE

A .500 GRAM OF SAMPLE DIGESTED WITH 3ML OF 3-1-3 OF HCL-HNO₃-H₂O AT 95 DEG. OF WATER BATH FOR ONE HOUR.
 DILUTED TO 10 ML WITH WATER. PARTIAL LEACHED 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 3 PPM SAMPLE TYPE: ROCK CHIPS AU BY 10 GRAM SAMPLE AA

DATE RECEIVED:

MAR 19 1984

DATE REPORT MAILED: 26 Mar 1984 ASSAYER

DEAN TOYE, CERTIFIED B.C. ASSAYER

TILlicum MINES FILE # 84-0381

PAGE 1

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 OZ/T
9601D	1	45	11	78	.5	15	7	315	5.41	17	3	ND	2	14	1	2	2	152	.18	.08	8	48	1.10	418	.18	12	3.11	.04	1.42	2	.001
9602D	9	466	1	14	.2	20	32	160	4.75	7	2	ND	2	16	1	2	2	52	.73	.11	4	24	.53	35	.11	20	.86	.07	.13	2	.001
9603D	1	58	4	14	.3	4	15	473	1.86	5	6	ND	2	55	1	2	3	35	3.43	.03	2	11	.33	20	.02	17	.55	.01	.04	7	.001
9604D	3	46	11	27	.3	16	9	115	6.88	120	3	ND	2	9	1	23	2	103	.12	.05	3	33	.40	27	.01	15	1.56	.01	.09	4	.001
9605D	2	58	6	16	.1	17	11	89	4.38	66	2	ND	2	7	1	8	2	80	.07	.03	4	36	.23	27	.01	35	1.05	.01	.07	5	.001
9606D	1	86	1	9	.4	7	4	135	1.76	2	2	ND	2	6	1	2	2	67	.12	.04	2	33	.34	35	.01	16	.64	.02	.08	8	.001
9607D	1	458	14	20	3.0	11	3	118	2.55	2	2	ND	2	7	1	2	2	54	.05	.02	5	45	.57	50	.02	17	1.03	.02	.20	5	.013
9608D	2	274	6	11	.2	18	10	147	12.54	8	2	ND	2	15	1	2	2	68	.14	.05	7	167	.33	58	.08	13	.98	.04	.26	6	.001
9609D	4	94	40	42	.7	7	10	776	2.92	4	5	ND	2	66	1	2	2	75	3.30	.09	5	13	.68	47	.02	17	1.03	.03	.06	4	.004
9610D	2	472	1	9	.5	11	24	139	5.37	10	3	ND	2	30	1	2	2	47	1.36	.08	4	16	.39	44	.14	27	.56	.07	.06	4	.001
9611D	6	367	1	9	.4	11	18	202	3.39	8	6	ND	2	28	1	2	2	42	1.80	.07	5	19	.37	26	.13	32	.66	.07	.05	5	.001
9612D	9	318	1	10	.4	11	17	138	4.61	11	2	ND	2	20	1	2	2	65	.58	.11	5	34	.47	38	.14	23	.76	.08	.09	3	.001
9613D	20	237	1	10	.1	15	14	125	4.02	4	2	ND	2	16	1	2	2	61	.54	.10	5	38	.53	30	.15	22	.82	.06	.08	2	.001
9614D	8	271	1	10	.3	11	6	129	4.18	8	2	ND	2	21	1	2	2	81	.50	.10	5	63	.65	36	.18	35	1.01	.07	.11	2	.001
9615D	6	195	8	28	.5	16	16	232	2.56	2	2	ND	2	23	1	2	2	64	.40	.07	5	49	.60	56	.09	17	1.01	.05	.30	7	.001
9616D	5	106	25	22	2.3	8	8	1111	2.24	6	2	ND	2	567	1	2	11	53	13.41	.06	3	23	.58	56	.06	32	.86	.03	.16	2	.012
9617D	3	108	12	15	.4	6	7	428	1.92	7	10	ND	2	58	1	2	2	47	2.58	.04	3	16	.36	18	.05	16	.65	.03	.03	6	.002
9618D	2	61	433	77	10.7	4	3	520	3.13	2	2	ND	2	9	2	2	6	50	.20	.06	7	20	.60	36	.08	16	.98	.04	.08	4	.114
9619D	1	32	3568	47	25.0	6	4	310	1.31	2	3	ND	2	32	17	11	39	28	1.19	.03	2	17	.28	21	.05	17	.46	.03	.04	6	.047
9620D	1	4	12	73	.2	4	4	1138	2.78	7	2	ND	3	27	1	2	2	63	.39	.11	14	13	.77	224	.09	18	1.29	.04	.42	2	.001
STD A-1	1	30	38	182	.3	37	11	978	2.81	11	2	ND	2	35	1	2	2	57	.60	.10	7	76	.69	274	.08	7	2.06	.02	.20	2	-

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH: 253-3158 TELEX: 04-53124

DATE RECEIVED MAR 19 1984

DATE REPORTS MAILED

Mar 30/84

ASSAY CERTIFICATE

SAMPLE TYPE : ROCK - CRUSHED AND PRULVERIZED TO -100 MESH.
AU BY FIRE ASSAYS

ASSAYER *Dean Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

TILlicum GOLD MINES FILE # 84-0381

RE

PAGE# 1

SAMPLE	AU OZ/TON
9604D	.001
9607D	.052
9609D	.002
9616D	.019
9618D	.092
9619D	.046

Appendix II



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone : 253 - 3158

GEOCHEMICAL LABORATORY METHODOLOGY - 1982

Sample Preparation

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis (AA and ICP)

0.5 gram samples are digested in hot dilute aqua regia in a boiling water bath and diluted to 10 ml with demineralized water. Extracted metals are determined by :

A. Atomic Absorption (AA)

Ag*, Bi*, Cd*, Co, Cu, Fe, Ga, In, Mn, Mo, Ni, Pb, Sb*, Tl, V, Zn
(* denotes with background correction.)

B. Inductively Coupled Argon Plasma (ICP)

Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cu, Cr, Fe, K, La, Mg,
Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Geochemical Analysis for Au

10.0 gram samples that have been ignited overnight at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb graphite AA.)

Geochemical Analysis for Au, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire Assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pb, Pt and Rh are determined in the solution by Atomic Absorption.

Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml. As is determined in the solution by Graphite Furnace Atomic Absorption (AA) or by Inductively Coupled Argon Plasma (ICP).



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Geochemical Analysis for Barium

0.1 gram samples are digested with hot NaOH and EDTA solution.

Ba is determined in the solution by Atomic Absorption.

Geochemical Analysis for Uranium

0.5 gram samples are digested with hot aqua regia and diluted to 10 ml.

Aliquots of the acid extract are solvent extracted using a salting agent and aliquots of the solvent extract are fused with NaF, K_2CO_3 and Na_2CO_3 flux in a platinum dish.

The fluorescence of the pellet is determined on the Jarrel Ash Fluorometer.

Geochemical Analysis for Tungsten

1.0 gram samples are fused with KCl, KNO_3 and Na_2CO_3 flux in a test tube, and the fusions are leached with 10 ml water. W in the solution determined by ICP with a detection of 1 ppm.

Geochemical Analysis for Fluorine

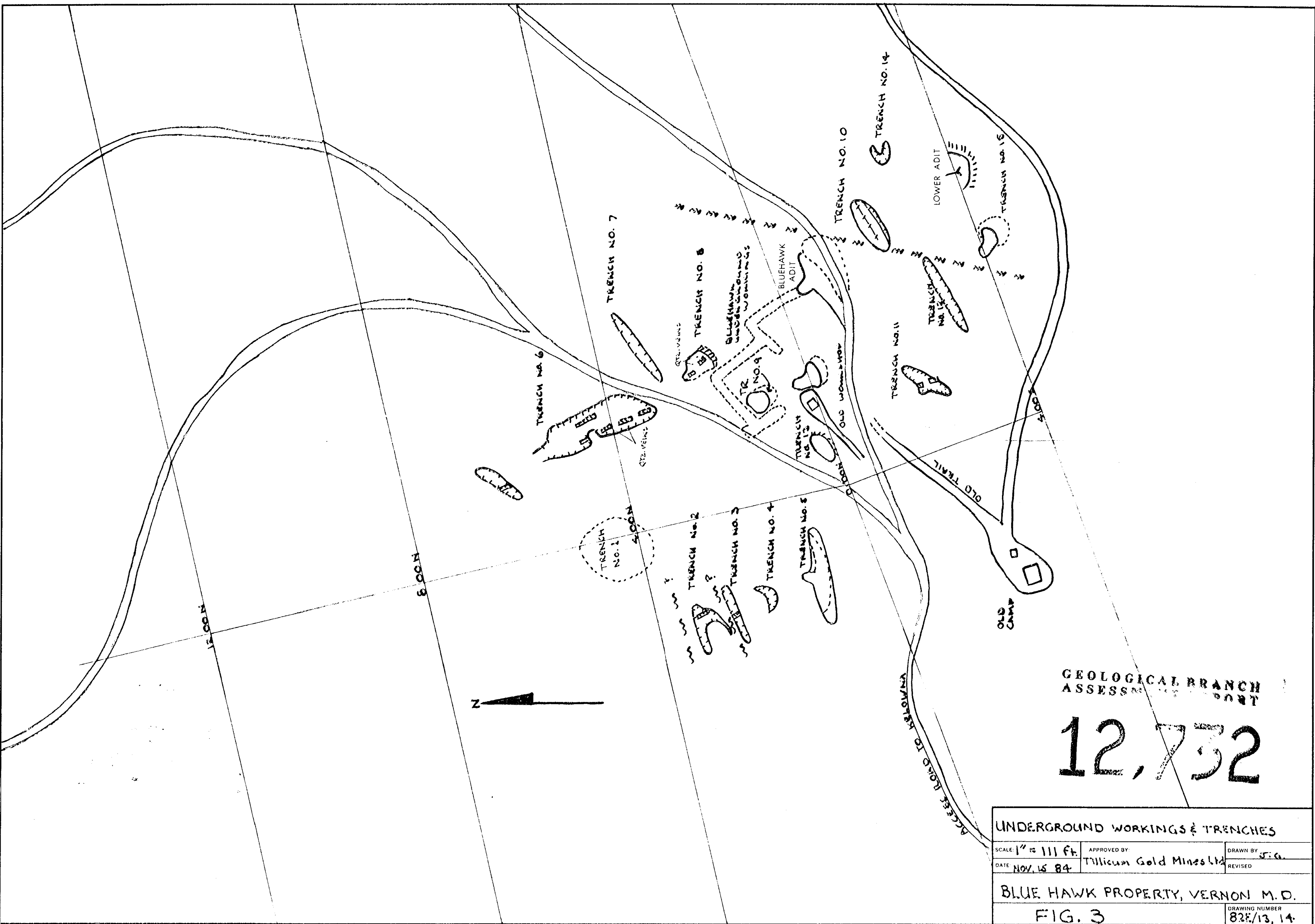
0.25 gram samples are fused with sodium hydroxide and leached with 10 ml water. The solution is neutralized, buffered, adjusted to pH 7.8 and diluted to 100 ml.

Fluorine is determined by Specific Ion Electrode using an Orion Model 404 meter.

Geochemical Analysis for Tin

1.0 gram samples are fused with ammonium iodide in a test tube. The sublimed iodine is leached with dilute hydrochloric acid.

The solution is extracted with MIBK and tin is determined in the extract by Atomic Absorption.



GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,732

UNDERGROUND WORKINGS & TRENCHES		
SCALE: 1" = 111 ft.	APPROVED BY:	DRAWN BY: S.G.
DATE: NOV. 15 84	TILlicum Gold Mines Ltd.	REVISED:
BLUE HAWK PROPERTY, VERNON M.D.		
FIG. 3		DRAWING NUMBER: 82E/13, 14