

LOG NO:	1221	RD.
ACTION:		
FILE NO:		

REPORT

ON THE

1989 DIAMOND DRILLING PROGRAM

TIL NO. 1, HALIFAX, HAIL, GOAT, AND WOLF CLAIMS

TILLICUM MOUNTAIN PROPERTY

FILMED

BURTON, BRITISH COLUMBIA

(B2F/13, B2K/4)

BY

BARRY D. DEVLIN

FOR

ESPERANZA EXPLORATIONS LTD.
15TH FLOOR
675 WEST HASTINGS STREET
VANCOUVER, B.C.
CANADA
V6B 1N2

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,437

Part 1 of 2

NOVEMBER, 1989

(Field Work done during the period June 1 to August 31, 1989)

TABLE OF CONTENTS

	<u>Page No.</u>
Summary	
Introduction	1
History	3
Claim Status	4
Regional Geology	6
Property Geology	7
Table of Geological Formations	10
1989 Exploration Program	12
East Ridge Zone	
Previous Work	
1989 Diamond Drilling Program	
Conclusions	15
Recommended Program	16
Recommended Budget	17
Summary of 1989 Expenditures	18
Statement of Qualifications	19
References	20

APPENDICES

- Appendix I - Drill Hole Logs, East Ridge Zone
- Appendix II - Assay Sample Ledgers, East Ridge Zone

LIST OF TABLES

	<u>Page</u>
Table 1 East Ridge - Tabulation of 1989 Drill Holes	13

LIST OF FIGURES

	<u>Page</u>
Fig. 1 Location Map	2
Fig. 2 Claim Map	5

LIST OF MAPS

<u>MAP NO.</u>	<u>ZONE</u>	<u>MAP</u>	<u>SCALE</u>	<u>LOCATION</u>
3	Tillicum	Compilation Map	5,000	In Pocket
18	East Ridge	Surface Diamond Drill Hole Plan (Map A)	500	In Pocket
19	East Ridge	Surface Diamond Drill Hole Plan (Map D)	500	In Pocket
20	East Ridge	Section 800 N Assays	200	In Pocket
21	East Ridge	Section 820 N Assays	200	In Pocket
22	East Ridge	Section 840 N Assays	200	In Pocket
23	East Ridge	Section 880 N Assays	200	In Pocket
24	East Ridge	Section 900 N Assays	200	In Pocket
25	East Ridge	Section 920 N Assays	200	In Pocket
26	East Ridge	Section 960 N Assays	200	In Pocket
27	East Ridge	Section 980 N Assays	200	In Pocket
28	East Ridge	Section 1000 N Assays	200	In Pocket
29	East Ridge	Section 800 N Geology	500	In Pocket
30	East Ridge	Section 840 N Geology	500	In Pocket
31	East Ridge	Section 880 N Geology	500	In Pocket
32	East Ridge	Section 920 N Geology	500	In Pocket
33	East Ridge	Section 960 N Geology	500	In Pocket
34	East Ridge	Section 1000 N Geology	500	In Pocket
35	East Ridge	Section 1080 N Geology	500	In Pocket

SUMMARY

Esperanza Explorations Ltd. is a Vancouver based publicly traded mineral resource company which owns 100% of the Tillicum Mountain Gold Property located in southeastern British Columbia. Esperanza acquired the property in late 1980 from local prospectors who had just discovered native gold on their mineral claims at Tillicum Mountain. Since then, the company has progressed the property to an advanced stage of ore reserve definition through a program of surface and underground exploration. Work to date has defined 10 skarn-hosted precious metal zones on the property. The majority of work has been directed to the Heino-Money and East Ridge deposits.

The Heino-Money zone has now been demonstrated by drilling and underground exploration, to have a reserve potential of 50,000 tons grading 1.0 ounces per ton gold. Within this reserve, a mining reserve has been calculated of 17,500 tons with a diluted grade of 1.00 ounces of gold per ton using a 0.35 oz/ton gold cut-off. The mining reserve is outlined in four south raking shoots that occur in a near vertical gold-bearing skarn structure which averages about 2 meters in width along a strike length of about 200 metres and a vertical extent of 100 metres. Additional reserve potential occurs between the delineated shoots as well as along strike and depth projections of the skarn structure.

In 1988, the center of exploration moved to the East Ridge zone which lies approximately 300 metres east of the Heino-Money zone. Earlier reconnaissance drilling of the East Ridge zone in 1983 and 1984 had identified the presence of gold but only limited knowledge had been gained as to the extent of the mineralization. The exploration program completed to 1989 comprised over 14,242 metres of diamond drilling in 85 holes together with about 300 metres of exploratory underground drifting. Total drill indicated and inferred reserves now stand at 1,306,000 tons grading 0.17 oz/ton gold. Within this reserve a drill-indicated reserve has been established of 263,000 tons with an in situ grade of 0.39 oz/ton gold using a minimum width of 1.5 metres and a 0.20 oz/ton cut-off grade. The East Ridge zone gold mineralization, like the Heino-Money zone, is contained in a skarn structure inclined at about 55 degrees and varying in width from 5 feet to over 4.5 metres.

The 1989 exploration program focused on establishing additional reserve potential of the East Ridge Zone. An in-fill diamond drill program on the north extension of the East Ridge zone was also carried out to upgrade this portion of the deposit to a drill indicated status. Total 1989 exploration expenditures on the East Ridge drilling program to August 31st totalled \$253,300.

SUMMARY

continued

A total of 1438 metres, in 10 drill holes, were completed in the north extension of the East Ridge zone during 1989. The majority of holes intersected both the A1 and A horizons of the East Ridge zone and thus defined continuity and grade to the north of the previously tested area. Drill hole assays ranged to 0.58 oz/ton gold over 1.8 metres.

Gold-Silver Zones in the Tillicum Mountain Property are associated with shear zones and calc-silicate alteration envelopes in carbonate-free sedimentary, volcanic and intrusive host rocks. We suggest the Gold-silver deposits on the Tillicum Mountain property be classified, using the classification scheme of Mueller (1988), as "Greenstone-hosted" deposits (Au-Ag-W-As) with prominent calc-silicate alteration, loosely termed "skarns".

Future exploration work on the Tillicum Mountain Property should involve an underground drifting and raising program on the East Ridge Zone which program is required to adequately define continuity and grade of mineralization.

The Tillicum Gold Project is regarded as an exceptionally attractive advanced exploration project with outlined reserves in excess of 240,000 ounces of gold. Potential extensions of the East Ridge and Haino-Money deposits as well as indications of additional targets suggest that the Property holds an excellent opportunity for increasing reserves.

INTRODUCTION

Esperanza Explorations' Tillicum Mountain property is situated in the Arrow Lakes region of southeastern British Columbia, 18 km by road east of the village of Burton (Figure 1). The property overlies Tillicum Mountain, on the western limits of the Valhalla Range, within the Slocan Mining Division. The approximate coordinates for the centre of the claim group is latitude 49 degrees 49'N and longitude 117 degrees 43'W; N.T.S. (82F/13 and 82K4). Elevations on the property range from 890 metres to 2288 metres. The peak of Tillicum Mountain stands at 2212 metres feet.

Evergreen forests extend to near the peaks, with the tree line being approximately 1890 metres. Rock exposure, for the most part, is confined to the ridge crests and covers approximately 5% of the surface area. The terrain is rugged, with steep slopes that are covered by a thin veneer of overburden.

Water, sufficient for diamond drilling and underground development is available below 1890 metres in elevation from either Elaine or Sue Creeks, which drain the northern slopes of Tillicum Mountain. Snow clearing programs in the winter months allow underground and surface exploration programs to be conducted throughout the year.

Numerous gold and silver skarn deposits and occurrences have been discovered on the Property. These deposits and occurrences are within a gold mineralized belt that averages 5 km in strike length and averages 1 km in width. The most noteworthy of these include the Heino-Money and East Ridge gold deposits; Arnie Flats and Grizzly silver-gold occurrences, and the abandoned Silver Queen mine (See Map No. 3).

The 1989 exploration program on the Tillicum Mountain Property was designed to advance a portion of the East Ridge Zone from the drill inferred to the drill indicated category.

FIGURE 1

LOCATION MAP

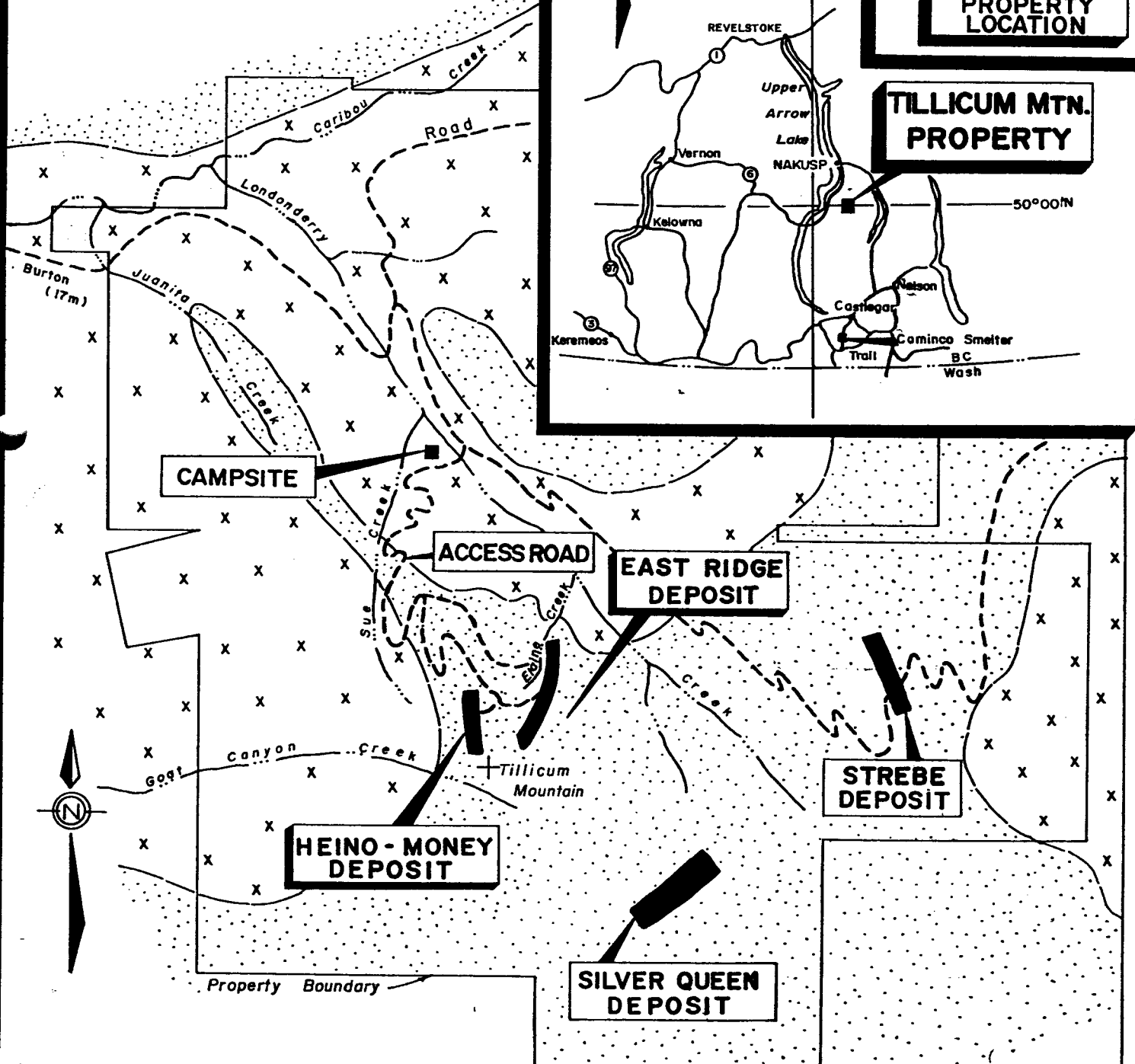
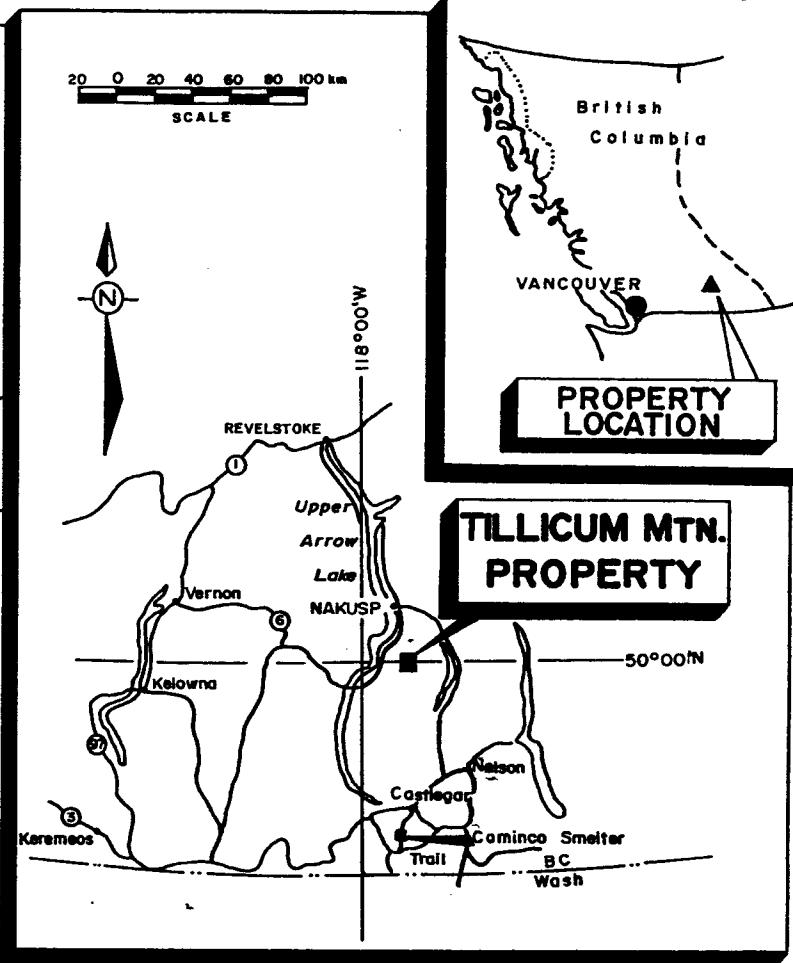
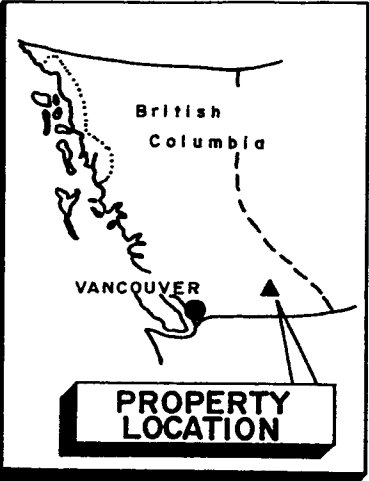
LEGEND:



CRETACEOUS QUARTZ MONZODIORITE TO GRANODIORITE STOCKS.



PENNSYLVANIAN TO JURASSIC VOLCANIC & SEDIMENTARY PENDANT ROCKS.



ESPERANZA EXPLORATIONS LTD.
TILLICUM MTN. GOLD PROJECT
PROPERTY and LOCATION MAPS

FIGURE 1

LOCATION MAP

HISTORY

The town of Burton was founded in 1895 as a result of gold mining activity in the area. There are reports of numerous placer operations within the Caribou Creek system during the early 1900's. The Caribou Creek basin also contains several abandoned workings, evidence of small-scale mining activity during the period 1896 to 1930.

Within the Tillicum Mountain area during the period 1925 to 1960, prospectors staked and worked the Old Gold Hope, Tribune and Tillicum claims, but failed to find the "source" of placer gold in many of the creeks draining this rusty coloured peak. However, in 1980, local prospectors Arnie and Elaine Gustafson discovered gold in what is now known as the Heino-Money zone, on the north slope of Tillicum peak.

In the fall of 1981, Esperanza Explorations Ltd. optioned the property and initiated an exploration program that sparked a district wide staking rush. The Tillicum Mountain Property covers in excess of 15,000 acres containing 10 known deposits and prospects of gold-silver mineralization.

From 1981 to 1988, Esperanza completed 26,486 metres of surface diamond drilling and 3,843 metres of underground diamond drilling for a total of 30,329 metres in 362 holes. Over 80 percent of the drilling was carried out on the Heino-Money and East Ridge deposits with limited drilling on the Silver Queen and Strebe Zones. During the same period, underground exploration, totalling 1,385 metres of advance, was conducted on the Heino-Money deposit. A total of 408 metres of drifting with limited raising was completed in the upper portion of the East Ridge deposit.

During 1985 and 1986, the underground drifting programs and surface trenches at Heino-Money produced a 3,500 ton bulk sample which was processed in nearby custom mills. Use of a standard crushing, grinding, gravity and floatation circuit resulting in 92% recovery of gold. A total of 3,200 ounces of gold was produced from the metallurgical testing program.

CLAIM STATUS

The Tillicum Mountain Property consist of 223 metric grid claim units, 21 two-post claims and six Crown granted mineral claims (note Figure 2). Esperanza owns 100% interest in the claims subject to advance royalty payments to local prospectors.

TILLICUM MOUNTAIN PROPERTY

LIST OF CLAIMS

<u>Name of Claim</u>	<u>Claim Units</u>	<u>Assessment Record No.</u>	<u>Due Date</u>
AGE	4	2214-2217	Sep. 29, 1997
BLACK BEAR	1	780	Aug. 08, 1997
GOLDEN HOPE	1	779	Aug. 08, 1997
HUGE	1	2072	Jul. 29, 1997
LITTLE JOE MOLLY FR.	1	781	Aug. 08, 1997
MOLLY	1	782	Aug. 08, 1997
NEAR 1-7 incl.	7	1446-1452	Sep. 20, 1997
SANDY TOD 103 incl.	3	1443-1445	Sep. 20, 1997
TIL 1-4 incl.	72	2210-2213	Sep. 29, 1999
WOLF	1	2071	Jul. 29, 1997
HALIFAX	20	2297	Oct. 28, 1995
JUANITA	20	2298	Oct. 28, 1997
ESTD #1	6	4031	Jul. 29, 1997
DERRY	15	5213	Feb. 19, 1994
DERRY #8 FR.	1	5214	Feb. 19, 1998
MILL #1	10	5693	May 17, 1997
GOAT	20	2392	Feb. 12, 1995
HAIL	20	2393	Feb. 12, 1995
WOLF	20	2391	Feb. 12, 1995
GOLD TILL 1	20	3020	Aug. 27, 1997

244

Sub-total 244 Claims

LIST OF CROWN GRANTS

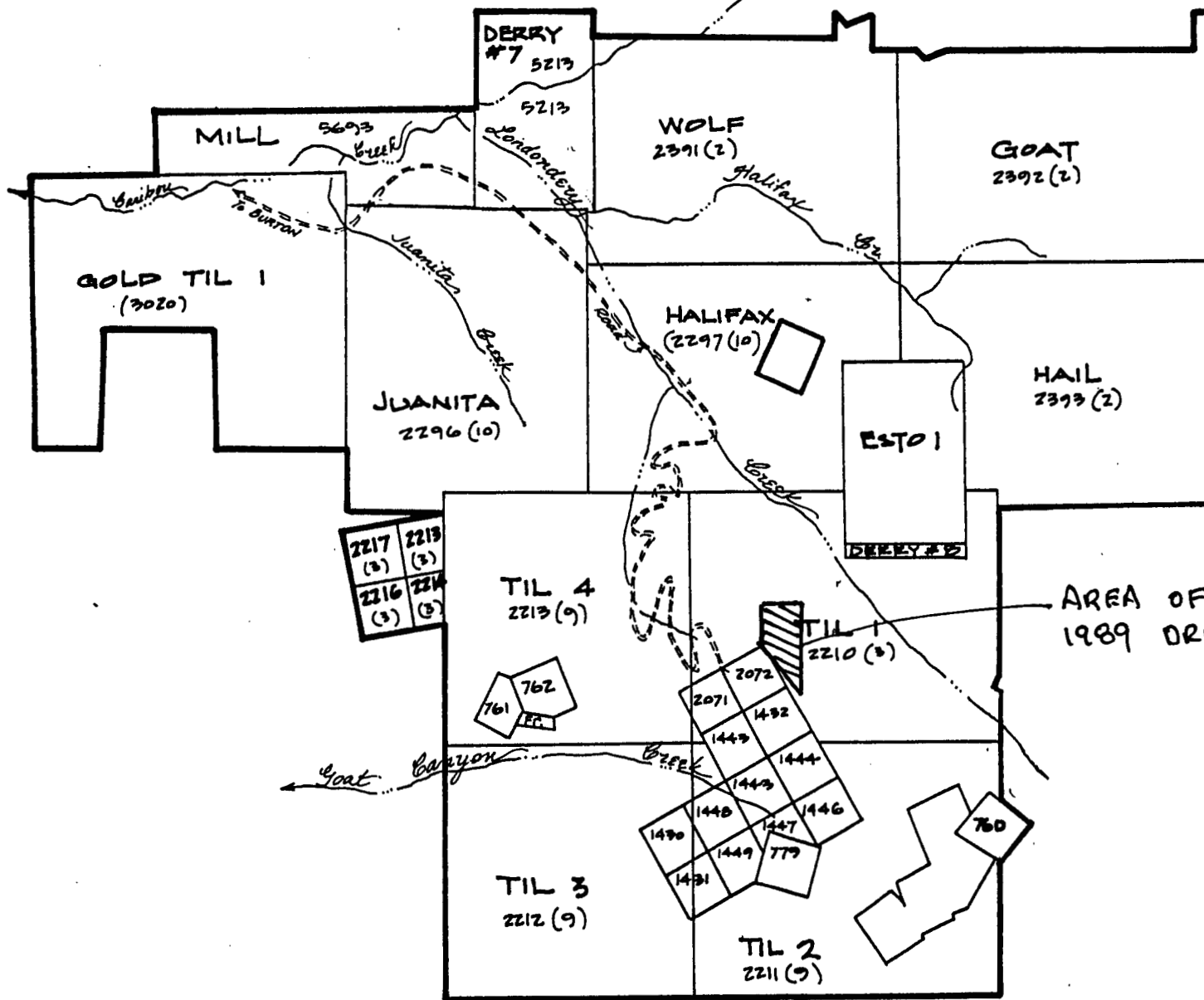
<u>Name of Claim</u>	<u>Claim Units</u>	<u>Grant No.</u>
GREY WOLF	1	D.L. #2204 Crown Grant
GREY WOLF FRACTION	1	D.L. #2209 Crown Grant
RED FOX	1	D.L. #2205 Crown Grant
BLACK FOX	1	D.L. #2206 Crown Grant
BLACK FOX FRACTION	1	D.L. #2207 Crown Grant
BLACK BEAR FRACTION	1	D.L. #2582 Crown Grant

Sub-total 6 Grants

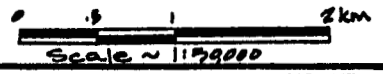
6

Total Claims

250



AREA OF 1989 DRILLING PROGRAM.



ESPERANZA EXPLORATIONS LTD.
 TILlicum MOUNTAIN PROPERTY
CLAIM MAP
 SLOCAN MINING DIVISION, INC.
 DATE: Nov. 1985 NTS: BCF/13 FIG.

REGIONAL GEOLOGY

The Tillicum Mountain Gold Property covers a portion of a roof pendant situated at the northwest end of the 240 km long arcuate belt of Rossland Group volcanics. This belt is host to several gold mines and prospects with recorded production in excess of 3.5 million ounces of gold.

The property is underlain by a sequence of Pennsylvanian to Triassic Milford Group volcano-sedimentary wackestones overlain by Lower Jurassic Rossland Group basaltic-andesitic flows and tuffaceous siltstones. Based on geochemistry of volcanic rocks, which represent basaltic arc shoshonites, the volcanic and volcanoclastic succession at Tillicum Mountain appears to represent the northern extension of the Elise Formation of the Lower Jurassic Rossland Group mapped in the Nelson area (Ettlinger and Ray, 1988; Ray and Spence, 1986).

Intrusive into the above succession are porphyritic stocks and sills of uncertain age that have subalkalic, calc-alkaline affinities and quartz monzonite to quartz monzodiorite composition. Gold and/or silver occurs in shear-related calc-silicate-quartz skarns developed in metavolcanic and metasedimentary rocks of both the Milford and Rossland Groups adjacent to or in close proximity to these stocks and sills.

All of the above units have been subjected to at least two phases of folding and metamorphism of lower greenschist facies and are intruded by the Goat Canyon Creek and Halifax Creek stocks of probable Cretaceous age.

Lamprophyre dyke swarms of probable tertiary age, intrude all rock units on the Tillicum Mountain property.

PROPERTY GEOLOGY

Pennsylvanian to Triassic Milford Group forms the base of the stratigraphic succession on the property and consists of siltstones, quartzites and limey sediments which have been regionally metamorphosed to hornfels, schists and gneisses (See Map No. 3). The Milford succession underlies much of the south and eastern portion of the claims and is host for the stratabound silver mineralization at the Silver Queen zone.

Milford Group metasedimentary rocks are overlain by metamorphosed volcanic and volcanoclastic rocks that are correlated to the Elise Formation of the Lower Jurassic Rossland Group. In the Tillicum Mountain area, the Elise Formation is comprised of massive basaltic-andesite flows which are both overlain by and locally interbedded with mafic tuff and shale. The Elise Formation can be further subdivided into massive flows, breccia and tuffs of the Lower Elise Formation, which are overlain by pyroclastic, epiclastic and minor flows of the Upper Elise Formation.

Metavolcanics of the Lower Elise Formation, composed of pillow flows, agglomerates and breccias, are found on the west and north slopes of Tillicum Mountain with an estimated thickness varying to 200 metres. It appears that the largest exposure of basaltic andesite is overlain by a sequence of tuffaceous sediments interbedded with up to 20 metres thick flows of basaltic andesite.

The Upper Elise Formation consists of intercalated tuffaceous volcanic cycles along with clastic sedimentation that includes recognizable units of epiclastics, tuffaceous siltstone, lapilli tuff, ash flow tuffs and shaly siltstone. This formation is exposed throughout the property. The best exposure of this unit is found on the north slope of Tillicum Mountain where the apparent thickness has been measured in excess of 240 metres.

Porphyritic rocks are intrusive into the Milford-Rossland Group succession forming dykes and sills to 200 metres in thickness. These intrusives pre-date the Cretaceous stocks and occur in two northeast trending belts that host all known gold-silver skarn mineralization. Composition of the porphyry rocks varies from quartz monzodiorite at Tillicum Mountain to quartz monzonite at Hailstorm Ridge. The intrusive bodies have cores with medium grained crowded porphyritic texture gradational into margins that are fine grained and granular. Intense alteration and recrystallization of the sedimentary units adjacent to larger porphyry bodies has produced vague contacts and a S2 schistosity.

The Jurassic and/or Cretaceous-age Goat Canyon and Halifax Creek stocks are intrusive into all the above mentioned units and postdate regional greenschist metamorphism. The stocks are compositionally similar and consist of fine to medium grained, hypidiomorphic granular quartz monzonite, granodiorite and quartz diorite with contaminated border phases of monzonite and diorite.

PROPERTY GEOLOGY

continued

The youngest rocks on the property are narrow (less than 3 metres), northerly trending, steeply dipping lamprophyre dykes. Although present throughout the property, these dykes are concentrated in two swarms that cross through the East Ridge and Heino-Money gold zones. These dykes are likely Tertiary in age.

Faulting is dominated by moderate to steep angle, normal and reverse structures. Most faults have minor offsets, however, several faults with major displacements divide the property into fault bounded blocks. Within fault bound blocks, little evidence of folding exists. The metamorphic fabric of the rock closely parallels the bedding planes with minor or parasitic folding only very rarely observed.

The two northeast trending belts of porphyry sills and stocks host all known potentially economic gold-silver skarn mineralization in the district. These belts average 1 km in width and have been traced for a strike length of 5 km.

Gold and/or silver mineralization occurs in shear-related calc-silicate, quartz skarns developed in metasedimentary and metavolcanic rocks of both the Milford and Rosslund Groups adjacent to or in close proximity to quartz monzodiorite porphyry sills. Skarn assemblages consist of quartz, plagioclase, sericite, tremolite-actinolite, clinozoisite, garnet, biotite and microcline. High grade "bonanza type" gold ore shoots are hosted within quartz-actinolite-chlorite assemblage. Skarns contain quartz-calc-silicate segregations, injections and veins that vary from less than 2 cm to 3 metres thick. Skarn zones vary in thickness from 0.5 to 60 metres.

Native gold occurs within the skarn assemblages as 25 micron disseminations to 1 centimeter coarse flakes within and along the margins to the quartz calc-silicate segregations. Skarns also contain variable amounts of pyrrhotite, pyrite, sphalerite, galena, as well as traces of chalcopyrite and tetrahedrite. The sulphides occur as fine disseminations oriented within the plane of the metamorphic foliation or as coarse grained aggregates within the segregations. Petrographic studies of polished thin sections indicate that the gold is contemporaneous with pyrrhotite, pyrite, sphalerite, galena mineralization and predates arsenopyrite and tetrahedrite crystallization.

The silver content of the skarns is highly variable. Gold rich skarns commonly have very low silver contents with silver-gold ratios of less than 1:1. Silver rich skarns, such as the Silver Queen zone, contain low gold values. Within the East ridge 2062 drift level silver to gold ratios approach 3:1.

PROPERTY GEOLOGY

continued

In summary, all known gold-silver skarns are spatially associated with swarms of quartz monzonite to quartz monzodiorite porphyry intrusions. Discovery of 10 gold-silver zones on the property has outlined potential for both high grade underground and bulk tonnage low grade open pit reserves.

**TILLICUM MOUNTAIN PROPERTY
TABLE OF GEOLOGICAL FORMATIONS**

<u>AGE</u>	<u>SYMBOL</u>	<u>LITHOLOGY</u>
Tertiary	LM	Lamprophyre dykes
	<u>NELSON BATHOLITH</u>	
Cretaceous	AL	Alaskite
	GR	Granodiorite, granite, quartz monzonite
	DR	Diorite
	<u>SKARN MINERALIZATION</u>	
Jurassic	SG	Skarn, banded, siliceous skarn
	SK	Skarn, calc-silicate, green skarn
	MS	Massive sulphides, >50% sulphides
	<u>SILLS AND STOCKS</u>	
	DN	Diorite Hybrid porphyry, skarn altered
	DY	Diorite Hybrid Porphyry
	DH	Diorite Hybrid
	DP	Diorite porphyry
	<u>ROSSLAND GROUP</u>	
Lower Jurassic	SS	Sericite schist
	BS	Biotite schist
	TS	Tuffaceous shale
	SH	Black-grey graphitic shale
	TX	Shaley crystal tuff
	TV	Tuffaceous volcanic
	MA	Meta basaltic andesite
	<u>MILFORD GROUP</u>	
Pennsylvanian to Triassic	AC	Meta-Arkose
	GC	Meta-Quartzite

MODIFIERS

<u>SYMBOL</u>	<u>DESCRIPTION</u>
a	actinolite
b	brecciated
c	calcite veining
d	banded pyrrhotite
e	epidote
f	faulted (1) minor slip; (2) of 2cm; (3) <to 10cm; (4) >20cm
g	visible gold
h	hornfels
i	biotite
j	arsenopyrite (tr)
k	calc-silicate altered
m	chlorite
n	skarn altered
o	pyrrhotite (>3%)
p	pyrite (>3%)
q	quartz veining
r	garnet
s	silicified
t	hematite
w	foliated
x	sericite
y	porphyritic
z	sphalerite (>1%)

1989 EXPLORATION PROGRAM

EAST RIDGE ZONE

Previous Work

The East Ridge zone was originally delineated by a significant gold geochemical soil anomaly on the northeast slope of Tillicum Mountain (see Figure 3). Trenching, diamond drilling and underground exploration on the East Ridge zone by the end of 1988 had traced the mineralization along a strike length in excess of 1,060 metres and to a depth of 360 metres. For detailed summary of the geology and previous exploration activity on the East Ridge zone, the reader is referred to the 1988 Summary Report by Devlin and Tupper.

Gold and silver mineralization in the East Ridge zone occurs in four, subparallel, shear-related calc-silicate-quartz skarn (SQ) horizons, termed the A1, A, B and C. The horizons strike northeasterly and dip moderately to the northwest. Individual high grade zones vary in thickness from 1.5 to 4.5 metres within low grade intervals that vary in thickness from 10 to 24 metres. The East Ridge zone remains open along strike. The 1989 drill indicated and drill inferred reserves now total 1.3 million tons grading at 0.17 oz per ton gold.

1989 DIAMOND DRILLING PROGRAM

During July and August, a total of 1,438 metres in 10 ND holes were completed in the north extension of the East Ridge zone by Beaupre Diamond Drilling Ltd., of Princeton, B.C. (note Figures 18 to 35). The 1989 drill program was conducted to advance drill inferred reserves in the northern extension of the deposit to a drill indicated category. The 1989 in-fill drill program, together with holes drilled in this area in 1988, has tested the north extension of the East Ridge zone along a strike length of 200 metres and to a depth of 220 metres below surface. The skarn horizons in the north extension have an average dip of 37 degrees to the west and have been drill tested for a dip length of 260 metres.

All the holes were drilled on an azimuth of 090 degrees and collared on specific east-west sections between grid lines 800 N to 1000 N. Drilling was initiated in July and terminated on August 17th, 1989.

All core is stored in core racks located on Tillicum Ridge roughly 500 metres north of Tillicum peak.

TABLE 1

TABULATION OF 1989 DRILL HOLES

EAST RIDGE DEPOSIT

DRILL HOLE	COLLAR LOCATION		ELEV. (m)	DIP (deg)	AZM (deg)	TOTAL DEPTH (mtrs)
	NORTHING (m)	EASTING (m)				
EB9-221	795.1	-304.4	1956.2	-50.2	092.4	131.5
EB9-222	795.1	-305.5	1956.2	-86.0	272.4	153.9
EB9-223	908.1	-313.6	1905.2	-830	270.0	136.4
EB9-224	864.9	-322.3	1931.2	-39.0	090.8	116.4
EB9-225	847.0	-323.9	1931.2	-76.0	090.8	116.7
EB9-226	882.3	-352.8	1922.3	-47.4	087.5	137.6
EB9-227	928.7	-394.8	1919.4	-47.8	092.1	155.8
EB9-228	956.7	-416.2	1905.0	-37.8	091.5	161.5
EB9-229	956.7	-417.8	1905.0	-71.0	091.5	159.0
EB9-230	998.7	-434.8	1895.3	-58.1	088.5	168.8

EAST RIDGE ZONE

continued

All holes drilled in 1989 intersected the A1 and A horizons of the East Ridge zone, with the exception of EB9-230 where the A-1 horizon was cut by a granodiorite dyke. Results of the 1989 East Ridge drill program are summarized in Table 2 and displayed on cross sections in Figures 20 to 35.

Hole EB9-221 intersected the A horizon from 82.9 metres to 84.7 metres and averaged 0.58 oz/ton Au over 1.8 metres (see Figures 20 and 29). The A horizon in this hole is characterized by diorite hybrid (DH), associated with banded, siliceous skarn (SK) and local, sericite schist (SS). This horizon is also cut by quartz-pyrrhotite veins and stringers of pyrrhotite with minor sphalerite and chalcopyrite.

Hole EB9-223 collared 112 metres along strike to the north of EB9-221, intersected the A horizon from 97.0 to 98.8 metres that assayed 0.150 oz/ton Au over 1.8 metres. This horizon was also characterized by banded, siliceous skarn (SQ) but the host rock is a tuffaceous volcanic (TV) with a strong biotite hornfels overprint. Mineralization consisted of 5 percent pyrrhotite with minor sphalerite and arsenopyrite.

Drill hole EB9-229, located 161 metres along strike to the north of EB9-221 intersected the highest gold values in the A-1 zone obtained during the 1989 drilling program. The A1 horizon occurs from 146.2 to 152.6 metres and assayed 0.199 oz/ton Au over 6.4 metres.

Higher grade sections within this interval graded 0.263 oz/ton Au over 3.3 metres and 0.42 oz/ton gold over 1.5 metres. The A1 horizon is hosted within in a tuffaceous volcanic (TV) with a strong biotite hornfels overprint. Mineralization consists of stringers and lenses of pyrrhotite (estimated at 5 percent) that is associated with up to one percent arsenopyrite.

Significant gold values were obtained for the B horizon in four of the ten holes drilled into the East Ridge zone in 1989 (note Table 4). The B horizon assays ranged to 0.22 oz/ton Au over 2.0 metres (Figures 20 and 29). The B horizon is hosted in a diorite hybrid (DH) with a strong biotite hornfels overprint that is cut by numerous quartz-pyrrhotite-sphalerite veins and local pyrrhotite stringers.

CONCLUSIONS

The 1989 exploration program on the Tillicum Mountain property saw preliminary drill testing of the Grizzly and Arnie Flats zones as well as successful continued delineation of drill indicated reserves in the East Ridge Deposit.

Diamond drilling of the north extension of the East Ridge deposit has defined continuity of gold mineralization within the A1 and A horizons. Gold mineralization, in the B horizon was intersected in 4 out of the 10 holes drilled in 1989. Diamond drilling programs within the East Ridge deposit has provided data points at roughly 60 metre centres which define strike and depth continuity of gold grades. The deposit remains open along strike and to depth.

Gold grades obtained from both the A and A1 horizons in the 1988 and 1989 drilling programs has outlined two mineralized shoots with grades ranging from 0.2 to 0.65 oz/ton gold. Present drill indicated reserves now stand at 263,000 tons grading at 0.39 oz/ton gold using a 0.20 oz/ton cut-off grade. Continued exploration by way of drifting and raising is now required to determine continuity and mineable grade by advancing the reserves to a proven-probable category.

Skarns within the Tillicum Mountain Property are hosted in tuffaceous sediment (TS), tuffaceous volcanic (TV) and Diorite Hybrid (DH). All skarns are spatially related to diorite and quartz monzodiorite intrusives. Specific horizons can cross-cut different rock units along strike or to depth. Higher grade better mineralized horizons within the skarn zone appear to be shear-related and have been observed to cross-cut bedding.

Most ore skarns are formed by the metasomatic replacement of dominantly carbonate rocks by Ca-Fe-Mg-Mn silicates (Einaudi et al., 1981). Skarn zones on the Tillicum Mountain property, with the exception of the Silver Queen zone, are associated with shear zones and silica alteration in volcanic and intrusive host rocks. The term skarn, however, is applied to these zones because they contain a significant proportion of calc-silicate minerals. The gold-silver deposits on the Tillicum Mountain property should be classified as "Greenstone - hosted deposits" (Au-Ag-W-As) with prominent calc-silicate alteration, loosely called "skarns" (Mueller, 1988).

RECOMMENDED PROGRAM

The 1989 exploration program on the Tillicum Mountain Property defined continuity of gold mineralization in the northern extension of the East Ridge deposit. An exploration program is proposed to advance a portion of the current drill indicated and inferred gold reserves containing in excess of 220,000 ounces of gold to the proven-probable category. The program will focus on developing a mining reserve within the drill indicated reserve blocks totalling 263,000 tons grading 0.39 oz/ton gold.


An underground drifting and raising program is required to confirm both horizontal and vertical continuity of the zone as well as to provide a bulk sample for determining potential "mill head" grades. The proposed program will consist of establishing two additional drift levels with associated raises and diamond drill crosscuts for a total of 760 metres of advance within the East Ridge deposit.

A drift on the 2010 level with raises constructed to the 2060 level should be established to advance the upper portion of the deposit to proven-probable category. Drill hole grades within this block range to 0.66 oz/ton gold over 4.4 metres. A drift length of 240 metres followed by 60 metres of raising and 30 metres of crosscuts for drill stations is proposed.

Within the lower portion of the drill indicated reserve, a total of 330 metres of drifting in conjunction with 60 metres of raising and 30 metres of crosscuts is planned on the 1800 level.

A program of 3,000 metres of underground drilling is required to establish closely spaced data points for definition of vertical continuity and grade within the reserve blocks.

Respectfully Submitted


Barry D. Devlin
Project Geologist

ESPERANZA EXPLORATIONS LTD.

TILlicum MOUNTAIN PROPERTY

RECOMMENDED BUDGET

FOR THE

UNDERGROUND PROGRAM - EAST RIDGE DEPOSIT

AND

DIAMOND DRILLING PROGRAM - GRIZZLY ZONE

<u>PROPOSED</u> <u>EXPLORATION FUNCTION</u>	<u>EXPENDITURE</u> \$
Geology, Assays and Technical Support	367,000
Surface Drilling	206,000
Underground Drilling	238,000
Underground Drifting and Raising	828,000
Transportation and Fuel	176,000
Metallurgical Testing and Technical Surveys	73,000
Roads and Trenching	48,000
Logistical Support	113,000
Advance Royalties & Property Maintenance	92,000
Project Management	<u>214,000</u>
Total Expenditures	<u>\$2,335,000</u>

The following unit costs have been incurred during the course of prior exploration programs on the Tillicum Mountain Property:

<u>EXPLORATION FUNCTION</u>	<u>DIRECT</u> <u>UNIT COST</u>
Surface Diamond Drilling	\$ 63/metre
Underground Diamond Drilling	\$ 73/metre
Underground Drifting	\$1200/metre
Underground Raising	\$ 800/metre
Accommodation	\$ 35/person
Test Milling (Inc. Transportation)	\$ 80/ton

SUMMARY OF 1989 EXPENDITURES

(June 1 to August 31, 1989)

Assay Lab Expenditures

1140 Assays @ \$14/share \$15,960
1029 14,400

Accommodation

420 man days X \$35/man/day \$14,700

Consulting Geological/Computer
Plotting/Drafting

\$ 3,270

Telephone, Expediting

\$ 520

Drilling

1438 metres - East Ridge @ \$56.56/m
901 metres - Grizzly, Arnie Flats @ \$56.56/m
Sub-total \$132,300
81,340

Equipment Lease

Genset Camp @ \$2200/m X 3 months - \$6,600
Survey Equipment @ \$700/m X 3 months - \$2,100
Sub-total \$ 8,700

Equipment Consumables, Bags
Flagging, etc.

\$ 1,950

Fuel

\$ 5,400

Salaries

Barry Devlin - 120 days @ \$220/day \$26,400
S. Strebchuck - 60 days @ \$110/day \$ 6,600
W. Roberts - 30 days @ \$280/day \$ 8,400
Sub-total \$41,400

Transportation Vehicle

\$ 8,600

Transportation Freight

\$ 1,340

Roads and Trenches

\$19,160

TOTAL EXPENDITURES

\$253,300

190,334

STATEMENT OF QUALIFICATIONS

I, Barry D. Devlin, reside on McCormack Road, in Burton, British Columbia, do hereby certify that:

- 1) I am a graduate of the University of British Columbia in Geological Sciences with a Bachelor of Science degree in 1981, and a Master of Science degree in 1987.
- 2) I have been practising my profession since 1978 for a total of 12 field seasons, which includes 6 years full-time in mineral exploration and mine development.
- 3) I have been permanently employed by Esperanza Explorations Ltd. since May 16, 1988.
- 4) This report is based upon personally working on the Tillicum Mountain property from June to August 1989.

DATED AT VANCOUVER, BRITISH COLUMBIA THIS 30 DAY OF NOVEMBER, 1989.


Barry D. Devlin, MSc.

REFERENCES

- Addie, C.G. (1981): Tillicum Mountain Gold Prospect - A Self Potential (SP) Test. Private Report.
- Brock, J.S., J.D. Guild and W.J. Crawford (1981): 1981 Exploration Report Tillicum Property, Assessment Report.
- Cairnes, C.E. (1934): Slocan Mining Camp, British Columbia, Geol. Surv., Canada, Mem 173.
- Devlin, D.B. and Tupper, D.W. (1989): Summary Report, 1988 Exploration Program on the Heino-Money and East Ridge Deposits, Tillicum Mountain Property, (Private Report).
- Drown, T.J. (1985): Money Adit Drifting Program, Tillicum. Unpublished, Private Report.
- Dewonck, B. (1986): Proposed 1986 Exploration and Development Program - Tillicum. Unpublished, Private Report.
- Einaudi, M.T. Meinert, L.D., and Newberry, R.J. (1981): Skarn Deposits, Economic Geology, 75th Anniversary Volume, p. 317 - 391.
- Ettlinger, A.D., Ray, G.E., and Meinert, L.D. (1989): Tectonic Controls on Precious Metal Enriched Skarn Mineralization in British Columbia, Canada, in Deep Structure of the Pacific Ocean and its Continental Surroundings: Symposium Proceedings, Blagoveshchensk, U.S.S.R., August 18-24, in press.
- Fisher, R.T. (1989): The Tillicum Mountain Gold Project of Esperanza Explorations Ltd., Preliminary Project Evaluation, Unpublished, Private Report.
- Guild, J.D., and Vincent, J.S. (1982): Exploration Report - Tillicum Property. Assessment Report.
- Hyndman, D.W. (1968): Petrology and Structure of Nakusp Map-area, British Columbia, Geol. Surv., Canada, Bull. 161, pp. 95.
- Kwong, Y.T.J. (1985): The Tillicum Mountain Gold Property - A petrologic Update, B.C. Ministry of Energy, Mines & Petroleum Resources, Geological Fieldwork, 1984, Paper 1985-1, pp.22-34.
- Kwong, Y.T.J., and Addie, G.G. (1982): Tillicum Mountain Gold Prospect, B.C. Ministry of Energy, Mines & Petroleum Resources, Geological Fieldwork, 1981, Paper 1982-1, pp. 38-45.
- Little, H.W. (1960): Nelson Map-area, West Half, British Columbia, Geolog. Surv., Canada, Mem. 308.
- McClintock, J. and Roberts, W. (1984): Tillicum Gold-Silver Property, C.I.M., Ninth District 6 Meeting, Paper 7-1, Kamloops, October 24-27, 1984.

REFERENCES

continued

- McClintock, J.A. (1988): Exploration Report, Tillicum Gold Property Assessment Report.
- Meinert, L.D. (1988): Gold in Skarn Deposits - A Preliminary Overview, Proceedings of the 7th Quadrennial IAGOD Symposium, E. Schweizerbartsche Verlagsbuchhandlung (Nagele u. Obermiller), D-7000, Stuttgart 1, in press.
- Mueller, A.G. (1988): Archaean Gold-Silver Deposits with Prominent Calc-silicate Alteration in the Southern Cross Greenstone Belt, Western Australia: Analogues of Phanerozoic Skarn Deposits, Geology Department and University Extension, the University of Western Australia, Publication no. 12, pp. 141-163.

APPENDIX I

TILLICUM MOUNTAIN PROPERTY

LEGEND - 1988

<u>SYMBOL</u>	<u>LITHOLOGY</u>
LM	Lamprophyre dykes
AL	Alaskite
GR	Granodiorite, granite, quartz monzonite
DR	Diorite
<hr/>	
SQ	Skarn, banded, siliceous skarn
SK	Skarn, calc-silicate, green skarn
MS	Massive sulphides, >50% sulphides
<hr/>	
DN	Diorite Hybrid porphyry skarn
DY	DHP
DH	Diorite hybrid (calc-silicate)
DP	Diorite porphyry
<hr/>	
SS	Sericite schist
BS	Biotite schist
CS	chlorite schist

SYMBOLLITHOLOGY

TS	Tuffaceous shale
SH	Black-grey graphitic shale
AC	Arkose
QC	Quartzite
<hr/>	
TX	Shaley crystal tuff
TV	Tuffaceous volcanic
MA	Meta basaltic andesite
<hr/>	
VN	Vein

MODIFIERSSYMBOLDESCRIPTION

a	actinolite
b	brecciated
c	calcite veining
d	banded pyrrhotite
e	epidote
f	faulted (1) minor slip; (2) <to 2cm; (3) <to 10cm; (4) > 20cm
g	visible gold
h	hornfels
i	biotite
j	arsenopyrite (tr)
k	calc-silicate altered
l	galena (tr)
m	chlorite
n	skarn altered
o	pyrrhotite (>3%)
p	pyrite (>3%)
q	quartz veining
r	garnet
s	silicified
t	hematite
w	foliated
x	sericite
y	porphyritic
z	sphalerite (>1%)

DIAMOND DRILL CORE LOG

Date: JULY 31, 1989

Hole Number: E89-221

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 795.080 N

-304.373 E

Elevation: 1956.168 METRES

True Azimuth: 92.4469 DEGREES

Total Depth: 434 FEET

Dip Angle: -50.2089 DEGREES

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE

Logged by: B. Devlin

Date(s) Logged: July 31

Drilling Contractor: Beaupre

Size	CORE From	To	Collar Cased and Capped:
<u>NQ</u>	<u>20</u>	<u>434</u>	<u>NO</u>

Hole Cemented: NO

Steel down hole: NO

Started: July 30/89 Completed: July 31/89

Acid Test
MENS. CORR
@ 385'
-46.5°

DDH E89221

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
10	20	CA, S, E			
	35	SHT, V	h, i	dark brown, fine-grained, massive w weak, local - irregular, light green K bands	
	39	S, H	S	locally, very fine laminations; Trace f.g. d, s, s o.	
	41	S, H, T, V	h, i, N	40% light green SK w minor g, + 1-2% d, s, s o in SHTV h, i; minor, angular SH frags in SK	W
	42	S, H	S, K	same as 35-39' above, but w minor, light green, irregular - K bands	
	45.5	LIM		HW intrusive contact = 30° TCA FW = fracture.	
	48.5	T, S	S	weak, local - green K bands - irregular 2% o along bedding planes. So = 80° TCA	
	51	D, R	h, i, K	"STRANGE" DYKE: - fine to medium grained, granular (sandy?) texture, local, angular SHs fragments, x-cutting green K stringers; FW intrusive contact = 45° TCA	
	7.8	T, S	h, i	brown hornfelsed (h, i) TV bands in black sh; So = 75° TCA @ 75' 54.5-55': SK K, c. 59.5-60': GR dyke	
	7.9	D, R	h, i, K	dyke: same as 48.5-51' above. FW intrusive contact = 40° TCA.	
	8.3	S, H	S	17% f.g. o parallel to So	
	9.25	T, V, S, H	h, i, S, K	fg massive dark brown to grey; mod, local - convoluted green K bands < 1% d, s, s o along So	
	9.35	S, K	K, o	2-3% f.g. d, s, s o; minor g.	W
	9.7	S, H, T, V	h, i, K	light green K bands < 1% d, s, s o	
	10.75	T, V	h, i, K	minor, local - sh; light green K bands; 1% d, s, s o 102-102.5': SK K, a, o - 100° c	

DDH E89221

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
1107.5	1108.5	S ₁ K ₁	K ₁ K ₁ O ₁	light green k w local, minor pink 10% random, VNC; 3% diss o	M
	1118.5	S ₁ H ₁ T ₁ V ₁	h ₁ i ₁ s ₁ o ₁	brown, hornfelsed bands of TVM SH ₂ , 5% bands of o subparallel to S ₀ ; o bands = 75° TCA 1" wide MS ₀ c fw contact WDH - oriented c 30° TCA FO - c 118.5' - calcite baxx	
	112.5	D ₁ H ₁	h ₁ i ₁ s ₁ o ₁ z	weak, local - DHN; 15% randomly oriented (locally MS), o stringers assoc. w minor Z; local DY	W
	1130	S ₁ H ₁	S ₁ O ₁	minor, local - TVh ₁ i ₁ bands; 5% stringers of o to S ₀ 129.5 - 130.5: 5KSR - pinkish-brown	
	1133.5	D ₁ H ₁	S ₁ K ₁ O ₁	weak, local - DHN; 5% randomly, subparallel & diss o; o parallel to S ₁ solution 1/2" wide MS ₀ c 133.5' oriented 65° TCA	W
	1151.6	D ₁ H ₁	h ₁ i ₁ k ₁ o ₁ z	pervasive, purplish tints, locally light grey; 3% stringers of o w minor Z; local, minor VNq, o - small VNq, o, z c 143, 147' + 154' S ₁ = 75° TCA c 155'	
	1158	T ₁ V ₁ D ₁ H ₁	h ₁ i ₁ k ₁ i	patchy green K.	
	1193.5	D ₁ H ₁	h ₁ i ₁ k ₁ o ₁ z	weak, local - DHN; pervasive, purplish tints; well foliated, 5% stringer + minor diss o; locally concentrated o + l in VNq 2" wide VNq, o, l c 165.5' oriented c 50° TCA - note - very coarse l 3" wide VNq, o, z c 167' 2" wide stringer zone of VNq, o, z, c c 184.5' oriented 80° TCA 191 - 191.5': VNq, o - microcrystalline	M

DDH E89221

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
119.35	119.9	D ₁ H ₁ S ₁ S ₁	g ₁ h ₁ i ₁ j ₁ z	grey w purplish tints; local, random VN _q + _o ; local, coarse x; local DH	M
				5% stringers + diss. o + <1% z + p	
				<1% diss. subhedral j; tourmaline crystals in g C 194'	
				195-195.5': TSs - broken core.	
	211.5	D ₁ H ₁	h ₁ i ₁ k ₁	pervasive, purplish color; 1% stringers of o; few contact = VN _{q, o, b} oriented C 38° TCA.	
	211.95	S ₁ Q ₁	g ₁ o ₁ b ₁ i ₁ e ₁ j ₁	g-rich, locally pink-banded (recessure)	E
				10% random milky VN _{q, o} ; 10% VN _{o, b} w rounded g fragments, + randomly oriented, z + j assoc. w o	
	213.7	D ₁ H ₁	h ₁ i ₁ k ₁ i ₁ o ₁ z	fine-grained pervasive purplish color; 3% stringers of VN _{q, o, z} + j	
				2" wide MS _{o, z, o, b} -rounded g fragments; oriented C 15° TCA	W
				225-225.5': TSs - broken cores	
				1/2" wide MS _{o, z, o, b} C few contact (237') oriented 80° TCA	
	213.95	T ₁ S ₁ T ₁ V ₁	k ₁ h ₁ i ₁		
	215.6	T ₁ V ₁ T ₁ S ₁	h ₁ i ₁ s ₁ i ₁ n ₁ o	alternating brown + dark grey bands; minor pink SQ bands; S _o =S ₁ =80° TCA	M-
				minor green k + a bands (boudined); 5% o stringers // to S ₁	S
				248.5-250.5': intense VN _o +/-TR _{1, z}	
	215.85	T ₁ V ₁	n ₁ h ₁ i ₁ o ₁ j ₁	pink SK bands; minor SQ w o, +/- p, i + z; boudined K ₁ o bands	M
	215.95	S ₁ Q ₁	g ₁ o ₁ i ₁ j ₁	greyish-white g m pink SQ	
				2% diss, 3% o stringers S ₁ =120° TCA	M-S
	216.45	T ₁ V ₁	n ₁ h ₁ i ₁ j ₁	same as 215.6-215.8.5' above; but only 1% diss o.	M

DDH E89221

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	2,645	2,685	T, V, S, K	N, h, i, o, j	pink w purplish tints; blebby o, trace drss j; boudined K, a, o veins.	W- M.
		2,711	T, V	h, i, k, l	1% diss. + str o, tr local P; minor VN _{q, o, b}	
		2,795	D, H, S, Q	N, o, j, o, z, i, a	weak, local - DH, i; 5% random STRINGER'S of o +/- z, cp; minor, local, VN _{q, o, g} ; -3" wide VN _{q, o, z, j, g} @ 276' oriented E 80° TCA 277-277.5': SS _{x, o, z, cp} w S _i = 70° TCA	S v.b.
		2,875	D, H	h, i, k, l	20% x-cutting STRINGERS OF light grey-green K; 1% local, stringers of o.	
		2,95	T, V	h, i, n, i, q, o	brown w pink tints; local VN _{q, o} 289.5-290.5': TVSQ _{n, q, o, z, j, cp} . 15% "net-textured" o in q. 5% STRINGER o - overall	M.
		3,13	T, S, T, V	s, h, i, n, o	alternating black, grey, brown & light green K bands; minor pink S _i - K bands = 80° TCA 3% STR. o ^{tr} locally assoc w K & a bands	W
		3,175	D, H, D, Y	h, i, k, l	faintly porphyritic, pervasive purple color; light green K STR'S; 313-313.5': DH _{n, q, o, j, cp} .	
		3,216	D, H	h, i, c, m, p	m +/- p x-cutting veins; 322-323.5': moderate broken cogs (F?) 3% p & TR o overall.	
		3,285	D, H	s, h, i, n, o	pervasive purple color; 5% drss & STR o; <1% drss p, trace j & cp. 1" wide MS _o vein @ 327.5' oriented E 80° TCA	M.
		3,335	D, H	h, i, c, m, p	intense, random c +/- m veining & local VN _{c, b} ; weak - broken cogs	

DDH E.8.9.221

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
333.5	333.85	DH, DY	h, im	local faint porphyritic texture; minor blebby w/ky q.	
	343.5	DH	hi, ki	brown, w light grey-green x-cutting K str's; local VN _{q, a, o} + e 338.5-339.1 DH N, q, a, e.	
	345	D ₁ N ₁		well banded, light + dark green (diopside + actinolite) alternating w pink K; green K bands banded locally; S ₁ = K bands = 75° TCA; <1% blebby o	W
	350	SK ₁	K ₂ af, bi	pervasive light green K (diopside/tranulite) w 20% a; 20% angular fragments of quartz, minor VN _q , 10% blebby o	W-M
	351	D ₁ N ₁	hi, im	wispy dark green a bands w purple DH; minor VN _{q, i}	W
	370	DH	hi, ki, R	fine-grained, purple, 10% light green K x-cutting str's; 5% VN _{q, a, o} str's, 3% diss pink R; faint porphyry. 1" wide A dyke @ 378' @ 80° TCA.	
	375.5	DY	Kh, i	-pervasive, light grey-green.	
	390	DH	hi, ki, R	same as 351-370' above -2" wide VN _{q, K₂} @ 385' oriented 70° TCA.	
	393	DH	hi, ki, c	10% x-cutting & subparallel VN _c up to 1/2" wide.	
	408	DH	hi, k	same as 351-370' above, but only trace garnet 2" wide LM dyke @ 395'	
	410	DH	Kh, i, R	50% light green K bands & 3% diss pink R; minor VN _q	
	426	DH	hi, k	same as 393-408' above;	
	434	DH	Kh, i	light grey-green w purple patches & 1% garnet, p on fract's.	

EOH 4341

ESPERANZA EXPLORATIONS LTD.

Page 1 of 7

DIAMOND DRILL CORE LOG

Date: Aug. 2/89

Hole Number: E89-222

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 795.050 N

-305.450 E

Elevation: 1956.150 METRES

True Azimuth: 272.4 DEGREES

Total Depth: 508 FEET

Dip Angle: -86° DEGREES

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE

Logged by: B. DEVLIN

Date(s) Logged: Aug. 2 - Aug. 3/89

Drilling Contractor: BEAUPRE

Size	CORE From	To	Collar Cased and Capped:
<u>NQ</u>	<u>13'</u>	<u>508'</u>	<u>NO</u>

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 1/89 Completed: Aug. 3/89

ACID TESTS.

@208' Mens 89.5° Core: 89.5°

@508' 84.5° 81.75°

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	10	11.3	C, R, S, E			
		13.55	S, H	S	black, very fine grained, siliceous weak local - green K + Vn c	
					13-18': moderately broken core	
		37	L, M		contains round, xenolith of	
					DHs, K, O; Hw intrusive contact = 28° TCA	
		55	T, S, T, V	sh, k, N	30% bands of green K + pink K, locally banded & looking up to	W
					2% of S, O, overall O = 1%	
					S ₀ = K bands = 40° TCA C 45'	
		57	S, H	sq, b, z, j	brecciated w angular SHs fragments cemented by g +	W
					1% z, 1% j & 2% O	M
					55-55': FD - intense broken core.	
		69	S, H	S	weak local - SK & TVH; 3" wide bands of SK, K, j, c	
					61' + 63.5' ^{both} oriented C	
					50° TCA	
		91	T, S, T, V	sh, k, k	alternating black, brown & irregular overbank bands;	
					S ₀ = K bands = 50° TCA	
					1% O assoc. w green K & along S ₀ planes	
		95	T, V	h, k, k	brown, fine grained w 15% + cutting, light green K stringers, K, O, S, O	
		102	T, S, T, V	h, k, S, j	weak local - green K + O, S, O	
		104.5	T, V	h, k, k	same as 91-95' above	
		108.5	T, S, T, V	h, k, S, j	same as 95-102' above	
		109.5	T, V	h, k, k	brown fine grained massive	
		111.5	T, V	h, k, k	same as 91-95' above; more, Vn, O assoc. w green K	
		111.4	T, S, T, V	h, k, S, j	same as 95-102' above	
		12.55	T, V	h, k, k, N	10% green SK bands; more, local light green stringers.	W
					SK K + a.o. C. 114-114.5'; 117-117.5' & 124-124.5'	

DDH EE9222

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	1,2,5	5	TISTIV	hi,si	weak, local green K bands; 2% p.g. o along S ₀ ; S ₀ = 40° TCA C 127'	
	1,3,4	5	MIA	hi,ki	"DYKE"?; amygdaloidal, uncaten fracture contacts w TS	
	1,5,2		TISTIV	hi,sk	alternating black, brown + minor green K bands; 2% o along fine laminations & locally assoc. w green K.	
	1,5,5		DH ₁	hi,ki,jo	minor VN _{g,2,0} , + TR _j ; 3% diss o overall. HW & FW intrusive contacts = 50° TCA	
	1,6,4	5	TISTIV	hi,si	same as 125.5 - 133.5' above; S ₀ = 45° TCA C 160'	
					156 - 156.5' SK K.	
	1,6,8		DH ₁	hi,ki,zi	fine-grained, light pinkish-purple tints, well foliated; 2% diss o assoc. w trace z & j. HW intrusive contact = 45° TCA	
	1,7,6	5	SS ₁	x,gi,zi	weak - DH hi, i; local VN _{g,0} . well foliated w S ₁ = 45° TCA 5% diss o + TR z, j & <1% p	/// M
	1,8,7		DH ₁	hi,ki	pervasive, light purple color; 20% x-cutting light green K stems, <1% diss o, weak, local VN _{g,0,2} 1/2" wide VN _{g,0,2} C 180.5' oriented C 40° TCA	
	1,9,1	5	SiS ₁	x,oz,zi	light grey, well foliated; 3% p.g. diss o along S ₁ ; 1/2" wide MS _{0,2,2} C 189.5' oriented C 45° TCA	/// W- /// M.
	2,0,4	5	DH ₁	hi,ki	light grey w purple patches; tr o	
	2,1,9		SiS ₁ , DH ₁	x,oz,zi	weak, local - DH hi, i; well foliated w S ₁ = 45° TCA C 210'; 3% o str's w TR z & t; minor VN _{g,0}	/// W- /// M

o str's, brecciated & boudined locally;
214 - 214.5': VN_{g,1,2,3,4,5,6}
oriented 40° TCA

DDH E.8.9.2.2.2

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	21.9	24.25	D ₁ H ₁ S ₁ S ₁	h ₁ i ₁ x ₁ k ₁	moderately foliated in places; purple color w light green & light grey-green patches; 10% o str's w tr z; local minor VN _a -3" wide AL dyke @ 229.5'	
	25.2		D ₁ H ₁ S ₁ S ₁	h ₁ i ₁ q ₁ p ₁ z	purple w light grey patches; local VN _{q,0} w tr z + l; local VN _{a,p,z} & coarse c; 30% locally massive p, 20% diss & blebby o 242.5 - 243': VN _{q,0,z,l} 246 - 247': VN _{p,a,c,z}	M
	25.95		D ₁ H ₁	h ₁ i ₁	dark purple, coarse c along S ₁ , medium green c; weak, x-cutting light green K venalets; 10% blebby o	
	26.25		D ₁ H ₁	h ₁ i ₁ k ₁ o ₁	20% x-cutting light green venalets; 2-3% blebby o	
	26.85		S ₁ S ₁ D ₁ H ₁	x ₁ h ₁ i ₁ o ₁ z	grey + purple patches, locally well foliated w S ₁ = 50° TCA minor, local VN _{q,0} & 3% o + tr z str's // to S ₁ 1" VN _{q,0} @ 263'	
	27.95		D ₁ H ₁	h ₁ i ₁	same as 252 - 259.5' above coarse c along S ₁ 274.5 - 275.5': D ₁ H ₁ K ₁ c	
	29.5		T ₁ V ₁	h ₁ i ₁	weak, local -pink TVN & SS S ₀ = S ₁ = 50° TCA; TR diss o	
	29.8		T ₁ V ₁	h ₁ i ₁ c ₁	10% x-cutting VN _c	
	30.45		T ₁ V ₁ S ₁ Q ₁	N ₁ q ₁ z	local, minor TVh ₁ i ₁ & D ₁ H ₁ h ₁ i ₁ ; 10% grey & pink VN _{q,0} ; 5% STR & blebby o + l-p; TR z 1" wide VN _{q,0,b} @ 300.5', 305' & 304'; oriented (AVE.) 40° TCA	M-S
	30.5		S ₁ H ₁	S ₁	moderately broken core	

DDH E89222

Lithologic Log

Cor	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	30.5	31.4	DH ₁	hi 9, 0, 2	pervasive, purple color; local c STR'S & VN _{9, 0, 2}	
					310.5-311.5'; IRREGULAR VN _{9, 0, 2}	
		31.8	DH ₄	ci 9, 0	light grey-green ^{crude} foliated; cut by 10% Random VN _{9, 0, 2}	
					5% c, mainly along S ₁	
					2" wide VN _{9, 0, 2} @ 317' e	
					oriented 35° TCA; 1° dis: X	
		32.9	DH ₄	hi 9, 0	pervasive purple color; w light grey-green k patches; weak,	W
					local, pink - DH ₁ ; minor VN _{9, 0, 2}	
					5% dis & STR. 0; TR = t & cp	
					VN _{MS 9, 0, 2} @ 323' & 327'	
					1/2" MS _{0, 9, 0, 2} @ 329' x-cutting	
					S ₁ @ 40° TCA; S ₁ = 60° TCA	
					FW intrusive contact = 1, 0° TCA	
		34.1	STV	ni 9, 0	pink k banded; S ₁ = S ₀ = k bands =	M
					50° TCA; 3% dis & STR. 0;	
					locally concentrated along S ₁ & j	
					minor, local VN _{9, 0, 2}	
		34.8	5 DH ₁	hi 9, 0	same as 318-329' above but only	W
					minor local VN _{9, 0}	
					1" wide MSVN ₀ , IRREGULAR @ 345'	
		35.3	TVBS	hi 9, 0	BROWN w minor pink tint,	M-
					thinly laminated w 5% c	
					along S ₁ & x-cutting STR'S;	
					350-350.5': MS _{0, 9, 0, 2} ^{1 spec V.G. - D. F. 100} & TR cp	S
					"looks like" A zone on 2002 Level	
		36.9	5 TV	hi 9, 0	BROWN w minor pink tint	
					& 15% dark green a bands	
					& patches, banded in places;	W
					3% c, locally concentrated in	
					a bands; S ₁ = 55° TCA	
		37.4	5 EQ	o ₁	pink, very siliceous; local	M
					minor TV h, i, n; 3% blebby	
					o & TR dis j	

20M

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
374.5	374.5	LM		HW intrusive contact = 50° TCA	
	374.6	SQ	oij	same as 369.5 - 374.5' above	/// M
	374.9	TV, D.H.	hiikN10	pervasive purple-brown color; well foliated to S ₁ = 70° TCA	/// W-M
				3% dross + blebby o	///
	381.5	D.H.	kihic10	light grey-green w purple tints	
				3% blebby o locally assoc. w VN	
				381-382': white, soft	
				x-cutting veins no reaction HCL	
				D.H. says its silicified calcite	
	386.5	SQ	oioij	pink banded SQ w irregular	
				2+1-9, o bands; 10% blebby o	/// M
				o TR; locally along S ₁	/// S
	395	TV	hiic10	dark brown w dark green patches; 3% blebby o locally	
				assoc. w dark green a;	
				generally massive - possibly MA?	
	396	TV	nhic10	pink + brown bands - 65° TCA	/// W-M
				5% o STR's // to S ₁ = K bands	///
	413	TV	hiic10	same as 386.5 - 395' above;	
				1/2" wide MSVN ³⁴⁷ oriented c 60° TCA	
	416	MA	hiic10	generally massive, locally amygdaloidal	
	423	SQ	oioij	pink + greyish white o skarn w	///
				local, minor TVN & D.H., 5% dross, str + locally massive o;	/// S
				o locally assoc w minor a patches,	///
				weak, local x-cutting VNc; TR dross R	/// "v.6"
				1" wide MSO, a, b c 417 ^{v.6. c 422}	/// 2 specks
	426.5	D.H.	hiik10	pervasive purple color, weak to moderately foliated c 2% o, minor	
				M STR's // to S ₁ ; TR dross	
	428.5	D.H.	hiic10	weak, local D.H., k w purple	/// M
				tints, 5% blebby o	///
	444	D.H., D.Y.	hiikAR	pervasive purple color w light	
				grey-green patches, 5% atk veins;	
				3% dross pink R; TR dross o	

439.5 - 440.5: D.H., R.
 1/4" wide VN ³⁴⁷ oriented c 447.

DDH E89.222

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	4,4,4	4,4,5	D,H,D,Y	K,R,G	light gray; 10% pink R, 10% X-cutting VNe; TR diss p.	
		4,6,0	D,Y	hi	weak, local - grey-green K, 2% diss. pink R; TR diss + STR O; 1/2" wide VN _{0,i,t,z,l} + TR p. C 457' oriented 68° TCA	
		4,6,1	M,Si	o,z,l,q,a	87% massive O, 3% z < 1% q; TR p. 10% fragments of q, a, z; 1" wide K + 2x0 @ 461' vein contents = Hw = 70° + Fu = 50° TCA	S
		4,6,3	D,H	hi K,R	massive light to dark purple color, local light grey-green and diss 5% X-cutting VN _{0,2} , 2, 0, 3% diss pink R	
		4,7,1	5 D,Y	hi	same as 445.5 - 460' above.	
		4,7,3	D,R		"biotite diorite" (KQM) Hw + Fu intrusive contents = 65° TCA	
		4,7,8	D,H	hi K	same as 461-463' above; local, minor VN _{0,2} ; 1% diss R.	
		4,9,3	5 D,Y,D,P	hi	weak, local DH h,i,k; distinct porphyritic texture + 484-485': (2) f.g. Ac dykes C 80° TCA.	
		4,9,9	5 D,H	hi K,R	same as 461-463' above; but only 3% VN _{0,2} , 0, z, l 493.5 - 494.5': (3) < 1/2" wide VN _{0,2} , 0, z, l oriented C 60° TCA	M
		5,0,1	5 D,H	N,q,o,l,z	pink, minor DH h,i; 30% VN _{0,2} , 0, z, l + TR p. all veins randomly oriented 5% o + l-p, 1% l, < 1% z	S
		5,0,8	D,H,D,Y	hi K	locally faint porphy. texture pewee purple color w 20% light green K + cutting veins 1% diss pink R; < 1% STR O.	

E0H 5081

DIAMOND DRILL CORE LOG

Date: Aug. 4/89

F

Hole Number: E89-223

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum Mtn., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 908.053 N

-313.057 E

Elevation: 1905.179 METRES

Total Depth: 450' FEET

Purpose: TO TEST EAST RIDGE

Reason hole Terminated: _____

Logged by: B. Devlin

Date(s) Logged: Aug. 4 to Aug. 5/89

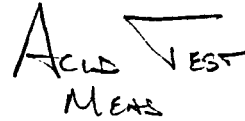
Drilling Contractor: Beaupré

Size	CORE From	To	Collar Cased and Capped:
<u>NG</u>	<u>8'</u>	<u>450'</u>	<u>NO</u>
_____	_____	_____	_____
_____	_____	_____	_____

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 3/89 Completed: Aug. 5/89



@208' 87.5° 86.25°

@450' 89° 89°

True Azimuth: 270 DEGREES

Dip Angle: -83 DEGREES.

DDH E89223

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	10	10	CA, SE			
		4.55	SH, TV	sh, i, j	weak, local - SK bands (~5%) consisting of boudined K + +/- q + o; SH is thinly laminated w 2% f.g. o along S ₀ planes; S ₀ = K bands = 55° TCA @ 30'	
		5.65	TV, SH	hi, i, SK	100% light green K - occurring as random v. w.lets w minor q + o 1% f.g. random o STR's	
		7.55	TX	hi, i, bio	30% SH's ^{fragments} + lenses in light pink DY hi; not a true "shaley crystal tuff", looks like xenoliths of SH in DY; locally foliated w S ₁ = 50° TCA @ 62' 3% blebby + STR. o; TR j	
		8.45	DH	sh, i, o, j	grey w light pink patches; locally well foliated + faintly porphyritic in places; weak; local - SSq + VN q ₂ o; 5% diss + STR o; TR jpp; o assoc. w coarse, black i in places	W
		11.145	DH	hi, i, x, q, o	weak, local SSq; pervasive light brown color; moderately foliated w S ₁ = 55° TCA @ 97' 5% random VN q ₂ i, o +/- x; locally, diss x 1" wide VN q ₂ o, i, j @ 96.5' oriented 50° TCA	W
		11.19	DH	K, S, X, O	pale grey & weak, local - DH hi local, minor VN q ₂ o, x; local diss x	W
		11.317	DH	hi, i, q, o	same as 84.5 - 114.5' above except only TR. diss x; weak, local DHK, S 3% diss o; minor local VN q ₂ i, o	
		114.05	DH	N, q, o, i, x	10% blebby o assoc. w VN q ₂ i, o i & x are coarse grained, i is also dark brown to black more local - pink SQ	M

DDH E 89223

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
140.5	156.5	D ₁ H ₁	h ₁ i ₁ k ₁ g ₁ o ₁	pervasive, purple color, cut by 15% x-cutting light green k stringers, 5% randomly oriented VN _{g,0+1-2} ; 17% diss o	
	157.5	D ₁ H ₁ S ₁	k ₁ x ₁ g ₁ o ₁	light grey green; 10% subparallel VN _{g,0} ; x diss + along S ₁ 1/2" wide VN _{g,0} , tourmaline c 157' oriented c 35° TCA	W-M.
	161.5	D ₁ H ₁	h ₁ i ₁ k ₁	same as 140.5 - 156.5' above; but only 3% random VN _{g,0} ; local DY w distinct porphyry.	
	169.5	D ₁ H ₁	h ₁ i ₁ g ₁ o ₁ z	30% streaky + x-cutting VN _{g,0,2} in light purple D ₁ H ₁ ; weak, local - D ₁ H ₁ k ₁ ; 5% blebby o + <1% z + tr ₁ assoc w g	M.
	197	D ₁ H ₁	h ₁ i ₁ k ₁	same as 157.5 - 161.5' above; - 180.5 - 181.5': D ₁ H ₁ N ₁ h ₁ i ₁ g ₁ o (TRP); - 188.0 - 190.0': subrounded patches of e, g, u, p; concentrate mineral zoning in patches - 1" wide, irregular VN _{g,0} c 194.5'	
	207.5	D ₁ H ₁	k ₁ z ₁ o ₁	light grey; cut by numerous x-cutting dark grey stringers, probably g, 30% diss + blebby o, weak, local - VN _{g,0}	
	219.5	D ₁ H ₁	h ₁ i ₁ k ₁ g ₁ o	same as 140.5 - 156.5' above; - 1" wide VN _{g,e,0} c 213.5' - 1/2" wide VN _{g,0,p} c 218.5' oriented c 40° TCA	
	231.65	S ₁ S ₁	g ₁ x ₁ o ₁ z ₁	weak, local - pink D ₁ H ₁ N ₁ ; well related w S ₁ = 35° TCA c 230' 30% VN _{g,0+1-2} , TRP oriented subparallel to S ₁ ; 10% blebby o + local H ₂ SO ₄ , g, b. 4" wide VNMS _{g,0,b,z} c 223.5' oriented c 40° TCA.	M-S

DDH E89223

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	2365	2505	DH ₁	h ₁ k ₁	pervasive dark purple color w local, minor light green K patches & stringers, 2% random VNq ₁₋₀ ; <1% o bld trace drss x & pink R.	
	255		DH ₁ S ₁ S ₁	h ₁ q ₁ x ₁ o ₁ z	greyish white color; locally well foliated; pink SQ bands & 30% random VNq _{0,1-2} & trace p; minor VNe.; local VNMS _{0,1,2} .	M-S
					-1" wide MS _{0,1,2} @ 253' orient @ 35° TCA.	
					-1/2" wide MS _{0,1,2} @ 254.5' orient @ 35° TCA	
	265		DH ₁	h ₁ k ₁ o ₁ z	derivative purple color w light grey-green patches; 3% drss & str o, <1% z, locally assoc w K STR'S; locally abdt. coarse i & x; trace z	
					260-260.5': coarse VNq _{0,1,2} , x. orient @ 35° TCA.	
	268		DH ₁ S ₁ S ₁	k ₁ x ₁ q ₁ o ₁ z	weak, local patches of DH ₁ ; pervasive light grey color; 15% patchy & VNq ₁ ; 5% drss & str o; 1% drss z.	M
	269		MA ₁	h ₁ k ₁	"MA DYKE" - HW fracture cont'd = 45° TCA	
	270.5		DH ₁ S ₁ S ₁	k ₁ x ₁ q ₁ o ₁ z	same as 265-268' above; up to 1% p & TR cp locally. 1" wide VNMS _{0,1,2} , z, p, cp @ 269.5'	
	288.5		DH ₁	h ₁ k ₁ N ₁ o ₁	strongly foliated (TV?) w very thin foliation planes orient @ 40° TCA @ 280'; local bands of pink SQ; minor at-i bands w 3% o str's // to S ₁ ; trace p & z locally	W

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
288.5	291.3	DH ₁	kh ₁ IN ₁	pinkish-grey tuffs; numerous bands or stringers of coarse, dark brown to black i; local minor VN _{g,0,i} ; 2% o overall	W
	308	DH ₁ SQ ₁	np ₁ o ₁ az	bands of dark grey + green S _i = k bands = 60° TCA @ 304'	
				weak, local - 5S + DH _{h,i} ; 15% VN _{g,t,-a,0,z} ; local MS _o 297-297.5: MS _{o,g,b,z}	S
	323	TIV ₁	h ₁ ik ₁	weak, local - 5K k ₂ ; pervasive dark brown color - intense i; local, minor - VN _c , + VN _{g,0,b,z} . VN _c occurs as locally abdt random, x-cutting veinlets.	
				311.5-312': 5K k ₂ 1" wide MSVN _{o,g,b,z} @ 319' oriented @ 40° TCA	
	326	SR ₁ K ₁	g ₁ ki ₁ o ₁ z ₁	greyish-green w pink tuffs. well banded + locally foliated; S _i = 50° TCA; 5% STR + locally massive o, 1% z + <1% coarse, blebby j assoc w o ₁ z	M-S
				1/2" wide MS _{o,g,b,t,z} @ 326' oriented @ 55° TCA	
	331	TIV ₁	h ₁ ik ₁ IN ₁ z	brown w light green K patches + stringers; 2% random stringers of o ₁ z; local K + c bands.	W
	333.5	TIV ₁	n ₁ ki ₁ o ₁	pink w light green patches; local minor SQ _{g,0} ; 5% o STR'S, locally assoc w i	W-M
	342	DH ₁	h ₁ ik ₁	weak, local - DH _{h,i} ; light pinkish-brown w grey patches - crudely porphyritic locally; 338-338.5': GR dyke EW intrusive contact = 55° TCA	

ZON

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
3,4,2	3,4,8	D,R ₁		fine to medium grained biotite diorite, crudely porphyritic; weak, pervasive h,i; & local greenish patches & str's ???	
				20% local Pelitic (GR) phases	
	3,5,5	D,H ₁	V,K ₂ g ₁ o	weak, local - SS & DH h,i; 10% wispy 2+g ₂ o bands: local, minor VN g ₁ o; 3% o overall	W-M
				352.5 - 353': COARSE DP dyke	
	3,5,8	D,H ₁	K,h,i,c	light grey-green w purple patches; 2" wide, irregular VN g ₂ g ₁ o c	
				358.5'	
	3,7,1	D,H ₁	h,i,k	weakly porphyritic in places; pervasive purple color w light green k venulets & patches	
				370.5 - 371': DHN, g ₁ g ₂ o.	
	3,7,3	D,Y ₁	h,i,k	medium grained, porphyritic. 15% light green k venulets/veins	
	3,7,8	D,H ₁	V,h,i,c,g ₂ z	light grey-green w purple patches; 10% VN g ₁ o, z, randomly oriented; S ₁ = K bands = 50° TCA c 377'	W-M
				1/2" wide MSO, g ₂ b, t, z c 378' oriented c 40° TCA	
	3,9,35	D,H ₁ D,Y ₁	h,i,k	distinctly porphyritic in places; minor, local VN g ₂ i	
	4,0,1	D,N ₁	K,h,i,c	regular & convoluted bands of K ₂ +/- 0.4g m z pink	W
				DHN; moderate, local - DH h,i K bands = 55° TCA c 395'	
	4,0,3	D,H ₁	K,g ₁ g ₂	light greenish cut by VN c, g, b oriented c 20° TCA	
	4,5,0	D,H ₁ D,Y ₁	h,i,K,R ₁	same as 378 - 393.5' above but w 3% cross pink R	
				424 - 425.5': AL dyke oriented c 85° TCA	

EEH 450'

DIAMOND DRILL CORE LOG

Date: August 7, 1989

F

Hole Number: E89-224

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 846.937 N

-322.260 E

Elevation: 1931.153 METRES

True Azimuth: 90.7628° DEGREES

Total Depth: 384 FEET

Dip Angle: -39° DEGREES

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE

Logged by: B. Devlin

Date(s) Logged: Aug. 7-9/89

Drilling Contractor: Beaupre

Size	CORE From	To	Collar Cased and Capped:
NQ	14	384'	NO

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 5/89 Completed: Aug. 8/89

Acid TEST
Mess Core
@ 350' - 46.5° - 38.25°

DDH E89224

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	10	11.4	C, A, S, E			
		2.0	S, H ₁	S, K ₁	v.f.g. dark grey to black chly 10% IRREGULAR light green bands	
		2.65	S, K ₁	K, S ₁₀	light green K (diopside) bands, irregularly oriented, local, unmove SHs 3% diss o. trace P S ₁ =K bands = 60° TCA @ 24'	W
		2.9	S, H, T, V	sh, k, k ₁	black w local brown + green patches; 20% o along S ₀	
		3.15	S, K ₁	K, O	light green, massive green k (diopside) 30% diss o; weak, local - S	W
		3.95	S, H ₁	S, K ₁	same as 14 to 20' above	
		4.05	S, K ₁	K ₁	same as 2.9 - 3.15' above but only 10% diss o	W
		4.2	S, K, S, H ₁	K, S, P (2)	weak to moderately broken core; minor, local clay gouge.	
		5.7	T, V	h, k, k ₁	weak, local - SHs; dark brown, generally massive w 20% irregular + subparallel green k bands.	
		5.8	M, A	kh, k, y	"MA dyke" ? - light green w purplish-brown tints; massive but w 10-20% chloritized phenos(?) HW intrusive(?) contact = 80° TCA	
		9.45	T, V	h, k, k ₁	same as 4.2-5.7' above but w 10% o along local S ₁ =S ₀ bands	
		9.15	S, T, X, T, V	h, k, b, o	crudely aligned Feldspar phenos, 20% angular, shaly breccia fragments; 3% diss o.	
		11.13	T, V	h, k, K, N	light brown + dark brown bands w minor SK, K, S, O bands locally 1% diss o; S ₁ = 80° TCA @ 100'	
		11.15	D, H	h, k, K, g, o	light brown w greenish-white patches, 10% irregular VN K, g, o. 3% blebby o w VN K, g, o. HW + FW intrusive contacts = 80° TCA	

Lithologic Log

Depth (ft)	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	1,1,5	1,2,7	S ₁ H ₁ T ₁ V ₁	s ₁ h ₁ i ₁	black w light brown bands; weak, local green K bands; 2% STR & diss O; local, minor VNe	
		1,6,9	D ₁ H ₁	K ₁ h ₁ i ₁ c ₁ g	light pinkish-brown w minor grey-white patches, local, minor x, g, & diss pink R; 3% f.g. diss O & trace P.	
		1,9,65	5 D ₁ H ₁	h ₁ i ₁ k ₁	fine to medium grained, equiaxed & locally foliated, ^{purplish-} brown color w light grey-green K veins & patches minor, x & diss pink R, 1% diss & STR. O; S ₁ = 70° TCA @ 180' 176-178': subparallel stringers < 1/2" wide of VNe, g, z, & oriented @ 75° TCA	
		2,0,0	D ₁ H ₁ S ₁ S ₁	N ₁ x ₁ g ₁ o ₁ b	weak, local - D ₁ H ₁ i ₁ ; minor, coarse, dark brown c w g, c; 15% subparallel VN ₁ g ₁ o ₁ b; 5% blebby O in total.	/// M
		2,3,2	D ₁ Y ₁ D ₁ H ₁	h ₁ i ₁ k ₁	distinctly porphyritic; pervasive brown color w minor, light green K patches & veinlets, tr x.	
		2,3,5	D ₁ H ₁	N ₁ O ₁ R ₁	well foliated & pink K banded w S ₁ = 80° TCA; 10% O mostly as stringers // to S ₁ & assoc. w TRACE Z, P, & CP; minor VN ₁ g ₁ assoc. w O.	/// M
		2,4,0	T ₁ V ₁ B ₁ S ₁	h ₁ i ₁ o ₁	dark brown, thinly laminated w 10% f.g. c along laminae, locally massive O; minor, local VN ₁ g ₁ z ₁ o S ₁ = S ₀ = 80° TCA	
		2,4,3	T ₁ V ₁ D ₁ H ₁	N ₁ g ₁ o ₁ z ₁	weak, local - D ₁ H ₁ h ₁ i ₁ ; light grey w brownish tuffs; 5% minky VN ₁ g ₁ locally assoc. w O & Z 3" wide VN ₁ g ₁ @ 242' oriented @ 75° TCA	/// W- /// M

DDH E89.224

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	243	262	G.R.DIR ₁		"Biotite Grano-diorite" (KQM); greyish-white w black (i) specks; coarse grained w local, large plagioclase (up to 1cm) phenos; minor, local VNq ₀ (?) + TR disc pink garnets (?) - hmmm... small, VNq ₀ @ 246.5' & 248.5' oriented @ 20° TCA; ^{HW + FW INTRUSIVE} contacts = 60° TCA 251.5 - 253': AL-dyke - coarse	
	280		DH ₁	hick	fine to medium grained, locally, faint porphyritic texture; 10% light grey-green k veins & patches, minor local VNq ₀	
	281	5	DH ₁	MA ₁₀ Z ₁	local, MS ₀ ; pink k bands; 15% massive o, 1% locally coarse, disc o, trace P, CP + j; minor a	M- S } ZONE
	293		TV ₁	hick ₁₀ Z ₁	local, minor TS; light brown w local pink sh tarts ^(5%) ; minor green k, a + o bands; 3% o STR'S & trace z assoc. w o. S ₀ = k bands = 80° TCA	W- M.
	300	5	DH ₁	Vh ₁₀ Z ₁	greyish-white w local purplish- brown patches; 10% VNq _{0,2} ; local, minor VNe.	M.
					299 - 300.5': IRREGULAR "coarse" VNq _{0,2} , trace P	
	315	5	DH ₁	hick ₁₀ Z ₁	weak, pervasive - S; light greyish-pink w purple tart; minor, local VNq ₀ ; 5% o mainly as MS _{0,2} & minor disc 1/2" wide MS _{0,2} @ 306' oriented @ 75° TCA 313 - 314': subparallel MS _{0,2} STR'S @ 80° TCA	W- M.

DDH E 8 9 2 2 4

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
3,155	3,19	DH ₁	Kio ₁	light grey, fine-grained, 30% f.g. diss & STR 0; trace diss p.	
	3,24	DH ₁	hi ₁ ki ₁ zi ₁ l ₁	fine-grained crudely porphyritic & foliated in places; pervasive purple color 2" wide VNk, g, o, z, l c 323' oriented c 80° TCA	
	3,38	DH ₁	na ₁ hi ₁ gi ₁	pink, green & brown bands, S ₁ = 75° TCA c 330'; 20% irregular a bands, 10% irregular + clots of VNq, a, o; TR diss pink R, 10% diss & blebby o	W
	3,54.5	DH ₁	hi ₁ si ₁ ki ₁ R	fine-grained, greyish-purple; 10% x-cutting K+/-R veiwlets; pervasive S, 3% red-pink diss R. 2" wide, irregular VNq, z c 342.5'	
	3,56	DH ₁	na ₁ q ₁ x ₁ pi ₁ o	banded & quartz veined w subparallel VNq c 80° TCA pervasive x, 5% blebby p assoc. w VNq, m, o, z, l, z, l c 342.5'	M-S
	3,67	DH ₁	hi ₁ si ₁ ki ₁	same as 338 to 354.5' above; except only 10% diss pink R & 30% subparallel VNq, m, p+/-k+R. 363 - 363.5' irregular VNq, s, m	
	3,67.5	LM ₁		HWA ^{invasive} fuz contacts = 50° TCA	
	3,69	DP		"coarse" - diorite porphyry plag. phenos up to 1cm across. FW invasive contact = IRREGULAR.	
	3,84	DH ₁	hi ₁ si ₁ ki ₁	same as 356 to 367' above; 30% subparallel VNq, p, l, z, l & VNc, k, g, R 371.5 - 374.5' subparallel VNq, p, l, z steps up to 1/2" wide. oriented c 80° TCA	
(E.O.H. 384)					

ESPERANZA EXPLORATIONS LTD.

Page 1 of 6

DIAMOND DRILL CORE LOG

Date: Aug. 9/89

Hole Number: EB9-225

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 846.959 N

-323.910 E

Elevation: 1931.150 METRES

True Azimuth: 90.7628° DEGREES

Total Depth: 385 FEET

Dip Angle: -76° DEGREES

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE

Logged by: B. Devlin

Date(s) Logged: Aug. 9 - 10/89

Drilling Contractor: Beaupre'

Size	CORE From	To	Collar Cased and Capped:
<u>NG</u>	<u>10</u>	<u>385</u>	<u>NO</u>

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 8/89 Completed: Aug. 9/89

ACID TEST
 MEAS CORRE.
 @ 205' 77.333° 71.75°
 @ 355' 75.25° 70°

DDH E89225

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	110	110	CIRISIEI			
		121	SH ₁	SK ₁	v.f.g. black w 20% light-grey-green K bands locally 12.5-13.5': SH PC - clay gouge. moderately broken core.	
		295	SH	SH ₁	black, thinly laminated w 5% VNg, 4-0 parallel to S ₀ ; 2% 0 along S ₀ ; S ₀ = 60° TCA 23-23.5': LM HW + FW intrusive contacts = 60° TCA	
		37	SK ₁	k ₁	light grey-green, weak-pervasive S ₁ local - i; 1% f.g. diss o. 33.5-34.5: SHSK _s	W-M
		49	SH ₁	SK ₁	weak, local - green SK K bands; blebby ^{4+2%} assoc. w K; also 0 along S ₀ ; total 2% diss o. 45.5-46': SK k.o. z	
		92.5	TIV	hi, k ₁	brown w subparallel light green K bands; S ₁ = K bands = 65° TCA 1% diss o along S ₁ 6" wide marble band @ 85' 3" wide MA h.i. dyke @ 85.5' - oblique to S ₁ , oriented @ 75° TCA	
		91.4	SK ₁	k ₁	light green k, minor blebby g, FW skarn contact = 50° TCA 2" wide SHs.c. PC @ 92.5' oriented @ 30° TCA	W
		1130	TIV	hi, k ₁	same as 49-92.5' above w minor, local SK K, R bands S ₁ = 60° TCA @ 127'	
		1133.5	TIX	hi, i	greyish-brown porphyritic ^{equigranular} (crystal text.?) ; weak, local - green K remnants.	
		1139	SH ₁	S ₁ O	v.f.g. black to dark brown (minor TIV h.i.) 5% diss + STR o, locally along S ₀ = S ₁	

F

DDH E89225

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
139	158	D ₁ H ₁	h ₁ i ₁ k ₁ R	pervasive light purple color w light grey-green k. patches + v. v.lets, 3% diss light pink R; ^{nw intrusive} contact = 60°TCA 151-151.5' - subparallel VN ₂ g ₁ q ₁ z stringers oriented @ 65°TCA	
	161	D ₁ H ₁	M ₁ q ₁ o ₁	light greyish-pink, local banding w S ₁ = 100°TCA; 3% local, blebby o w TR assoc. z	W-M
	175.5	D ₁ H ₁	k ₁ h ₁ i ₁ o ₁	light greyish-green = light purple patches; generally massive & unfoliated; 3% l.g. diss o, 1% p + TR z	
	177.5	D ₁ H ₁	3 ₁ k ₁ q ₁ o ₁	light grey w local DH ₁ h ₁ i ₁ ; moderately foliated weak local x 3% diss + blebby o; 2" wide VN ₁ g ₁ o ₁ z @ 176.5' oriented @ 45°TCA	W
	191.7	D ₁ H ₁	h ₁ i ₁ k ₁ i ₁	fine-grained, generally massive but locally foliated, pervasive light purple color w light green k x-cutting v. v.lets + patches; local, minor VN ₁ g ₁ o ₁ , trace diss pink R S ₁ = 65°TCA @ 192' 193.5-194': VN ₁ g ₁ i ₁ m ₁ o ₁ - coarse	
	204	D ₁ H ₁	N ₁ q ₁ o ₁ h ₁ i ₁	light grey-green w purple tints; 5% VN ₁ g ₁ o ₁ z, pervasive - diss x 3% diss o, trace p + z. 199.5-200': parallel STR ZONE OF VN ₁ MS ₁ g ₁ o ₁ z oriented @ 60°TCA	W-M
	24.7	D ₁ H ₁	h ₁ i ₁ k ₁ i ₁	same as 177.5-197' above; 213-213.5': DH ₁ g ₁ o ₁ - VN ₁ c oriented @ 30°TCA 219-219.5': STR ZONE OF MS ₁ o ₁ g ₁ b ₁ z oriented @ 55°TCA 233.5-234': SSMS ₁ g ₁ o ₁ b ₁ z, cp. MS oriented @ 50°TCA 2" wide VN ₁ g ₁ k ₁ o ₁ i ₁ @ 246.5' oriented @ 40°TCA	

DDH E89225

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
24.7	26.5	D ₁ Y ₁	h ₁ k ₁	distinctly porphyritic texture; pervasive purple color w light grey-green K patches & veinlets; 10% diss. & blebby o	
26.8	5	D ₁ H ₁ S ₁ S ₁	N ₁ Q ₁ X ₁ O ₁ R ₁	grey w pinkish-purple tints; locally foliated & K banded. 5% diss & blebby o, TR p, c, p, & l S ₁ = K bands = VNq ₁ o = 65° TCA	W S
27.2	5	D ₁ Y ₁	h ₁ k ₁ O ₁ R ₁	weak local -DHSS; moderately well foliated; 3% random VNq ₁ o <1% diss z & 3% blebby o	
28.4	5	T ₁ V ₁ B ₁ S ₁	h ₁ i ₁ N ₁ Q ₁ O ₁	dark brown - fine-grained, thinly laminated / foliated w S ₁ = 60° TCA @ 280' j.m. dense local - pink SQ ₁ g, k, a, i; 5% VNq ₁ o - irregularly oriented. 5% blebby & locally "net-textured" o: local, patches of x	M
28.5	5	D ₁ Y ₁	h ₁ k ₁	purple, porphyritic; 1% diss o	
29.2	5	D ₁ H ₁ T ₁ V ₁	N ₁ g ₁ h ₁ Q ₁ O ₁ R ₁	skarn banded & foliated; pink & white SQ w a, o, z locally. 5% blebby o, tr z & p. 287.0-287.5: TV ₁ h ₁ i ₁ N ₁ 287.5-288.5: SQ ₁ g, a, o, z (g?) 291-292': TV ₁ h ₁ i ₁ ; S ₁ = 65° TCA	S
30.5	5	D ₁ H ₁	h ₁ i ₁ k ₁ N ₁ O ₁	purple w light grey-green K patches & veinlets; locally well foliated w S ₁ = 65° TCA local pink SQ (TVN?) bands; 3% o stringers // to S ₁ ; local minor VNq ₁ o & VN ₁ o	W
30.75	5	D ₁ H ₁	k ₁ S ₁	pervasive light-grey-green K weak - mod. pervasive - S ₁ weak local - VNq ₁	

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
30.75	31.11	D ₁ H ₁	hiiki	purple w light grey-green k veinlets + patches. 1" wide VNe, a, o @ 308.5' oriented @ 60° TCR	
	32.4	D ₁ H ₁	hiisiko	weak, local-DHN; well foliated w S ₁ = 75° TCR; pervasive purple color; local light green k + a veinlets.	
	33.05	D ₁ H ₁ SS ₁	Ngjg	pink w local greenish tabs; weak local SQ; 3% f.g diss o, <1% p.	/// /// M ///
	34.1	D ₁ H ₁	hiisiko	pervasive purple color; local more light green k + or a bands moderately well foliated w S ₁ = 70° TCR @ 338' 3% diss + blebby o, 2% diss p assoc. w local e	
	34.6	D ₁ H ₁	Kihicap	light greyish-green w purple tints; 5% subparallel (to S ₁) VNa, p + l - o; <1% diss o.	
	36.3	D ₁ H ₁	hiiki	fine-grained, pervasive purple color w (x-cutting) light green k veinlets; local VNa, o, irregularly oriented; weak, local VNa or VNe; 2% diss o, 1% diss p. 353.5 - 354': VNe, b, l @ oriented @ 25° TCR 2" irregular VNa, o @ 359.5'	
	37.75	D ₁ H ₁	hiisNi	pinkish-purple color w greyish patches, moderate pervasive - S ₁ ; local, pink SQ; 2% diss o & 1% diss p; weak, local a bands trace diss z + l. 2" wide VNe, o, l, z @ 376' oriented @ 80° TCR	/// /// ///

ESPERANZA EXPLORATIONS LTD.

Page 1 of 5

DIAMOND DRILL CORE LOG

Date: August 11/89

Hole Number: EB9-226

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 882.314 N

-352.824 E

Elevation: 1922.269 METRES

True Azimuth: 87.5111 DEGREES

Total Depth: 454 FEET

Dip Angle: -47.4167 DEGREES

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE

Logged by: B. Devlin

Date(s) Logged: Aug. 11/89

Drilling Contractor: Beaupre

Size	CORE From	To	Collar Cased and Capped:
<u>NQ</u>	<u>41</u>	<u>454'</u>	<u>NO</u>

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 9/89 Completed: Aug. 11/89

ACID TEST
 MENS Coril.
 @ 204' 51° 42.5°
 @ 454' 49° 40.0°

Lithologic Log

Code	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	10	14.1	CASE			
		14.8	SH	sfib	black, very fine grained 10% random x-cutting VNc + l-g; 20% angular shale fragments in shale matrix - "shale breccia"	
		5.5	LIM		both HW & FW contacts = F① w graphite & clay rich - gouge	
		6.1	SH	S	black, v.f.g., massive w < 1% diss o	
		7.3	TSS	SKK	black w light grey interbeds + local SKK bands; So = K bands = 55° TCA @ 60'	VERY WEAK
					64.5 - 65.5': SK K _{2,0} 69.0 - 69.5': SK K _{2,0}	
		7.8	SKTSS	KSS	light green SKK w minor q + l-o; interbedded w TSS; weak, local - TVh,i; 1% diss o assoc. w SKK	W
		8.1	TSS	S	black w grey interbeds, weak, local - green k bands; pervasive S	
		10.6	TV	hi	brown; weak - local SHs, o beds; minor, subparallel green K + l-c bands; S ₁ = S ₀ = 75° TCA @ 100'	
		12.8	SH	sh, it	black, v.f.g., massive; weak, local - TVh,i; 1% v.f.g. diss o weak, local - x-cutting VNq; "t" was added for Jim's sake, to see if he is paying attention.	
		14.0	TVSH	hi	106.5 - 107': MAh,i - "MA DYKE" wispy, pink-brown bands in dark brown to black matrix, weak, local - green k bands; 1% STR. o	
					131.5 - 132': SKSQ K _{2,2}	
		14.5	SKTSS	K _{2,0} ij	green-green k bands w q + o; local - TSS, h, i beds; trace Z d; 140.5 - 141': SKF② - intense gouge.	W-M.

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	1,4,5	1,6,65	T, V, T, S	h, i, s, o	interbedded pink-brown + dark grey to black beds. S ₀ = 75° TCA; weak local-green K bands to S ₀ ; 3% o along S ₀ .	
		1,6,9	T, X, S, H	h, i, s, i	pinkish-grey; porphyritic (?) w angular plag phenos crudely aligned to S ₀ ; 30% interbedded SHs; 1% diss + STR o.	
		1,8,3	D, H	K, h, i, c	pervasive, light grey-pink color, weak local - SHs xenoliths; crude fold zone pheno "ghosts" locally	
		1,9,5	D, H	N, i, K, h, i, c, o	light pinkish-brown; minor, local-pink SQ; weak local-green K bands + SHs xenoliths; 3% f.g. diss o; trace j	W-M
		2,0,05	T, V, D, H	h, i, c	dark brown, f.g. generally massive but locally porphyritic (?) weak, local-green K bands.	
		2,0,7	D, H, T, V	h, i, K, i, N	wispy textured, pinkish-brown w irregular light green K bands; 5% angular SHs fragments; weak, local-pink SQ; 1% diss o	W
		2,1,55	D, H, D, Y	K, h, i, c	grey-brown w pinkish tints; local, distinct porphyritic texture; 209.5 - 210.5: DH K.	
		2,1,7	D, H, S, Q	N, i, g, b, i, c, i, o	pink w dark brown patches; 30% angular pink SQ fragments, 20% wispy i streaks; 3% diss o	M
		2,5,95	D, Y	h, i, c	dark grey-brown, medium grained, foliated + porphyritic w plag. phenos aligned to S ₁ ; S ₁ = 75° TCA @ 252'; weak, local - VNq, o, up to 1/2" wide oriented 55° to 70° TCA	

DDH E89226

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	2,5,85	2,7,75	DH ₁	h ₁ i ₁ s ₁ k ₁ o	weak, local - D-Y; ^{DHN} pervasive brown color w grey-white patches; local, light green K veinlets + patches	
					weak, local - VN _q , _o ; 3% diss o	
		2,88	DH ₁	n ₁ q ₁ x ₁ o ₁ i ₁ e	weak, local - ss; light grey w local pink tints; weakly foliated; 20% VN _q , _o , _e , _p (+ TR ₂); local VNMS _o ; all randomly oriented; 5% diss + massive o, 1% z	S
		2,9,5	SDH ₁	K _h i ₁ s ₁	light grey w pinkish-purple tints; 3% IRREGULAR VN _q , _i , _o ; trace diss pink R; 1% diss o	
		3,2,9	D ₁ H ₁ S ₁ S ₁	S ₁ X ₁ O ₁	weak, local - DH _n , weak, pervasive DH _h , _i ; moderately foliated w S ₁ = 65° TCA @ 302'; weak, local - VN _q , _o ; 3% diss + stringer o; trace p, z + j	M
		3,6,45	D ₁ H ₁	h ₁ i ₁ k ₁ p ₁ o	pervasive light purple color w light grey-green K veinlets + patches; moderately foliated & weakly porphyritic; 5% VN _q , _o . 334-335: IRREGULAR VN _q , _p , _o 2" wide VN _q , _o , _z @ 252.5' oriented @ 80° TCA (banded?)	
		3,6,8	D ₁ H ₁	n ₁ i ₁ n ₁ i ₁ o ₁	pinkish-brown w green patches; 5% STRINGER + diss o; 366.5-367.5': DH _h , _i , _a , _c , _f (?)	W
		4,0,7	D ₁ H ₁	h ₁ i ₁ s ₁ k ₁ o	same as 258.5 - 277.5' above; local STR + massive o. 387.5-388': MS _o , _t , _g , _h , _p , _z oriented @ 75° TCA	
		4,2,8	D ₁ H ₁ D ₁ Y ₁	h ₁ i ₁ k ₁	pervasive purplish-brown color w 20% x-cutting light green K veinlets; distinctly porphyritic in places; local 419.5-420': IRREGULAR VN _q , _q , _K , _i , _p .	

DDH E89226

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
42.8	42.95	D ₁ N ₁	K ₂ g ₁ o ₁	alternating purple-pink + green k bands, local, discontinuous wispy a bands; 5% blebby o, local, minor VN _g , o k bands = 75° TCA	/// M.
43.8	44.4	D ₁ H ₁	h ₁ k ₁	fine grained; pervasive light purple colored; 10% random, green k venlets, locally assoc. w a +/or g; 2% diss R.	
44.4	45.05	D ₁ H ₁	k ₁ s ₁ h ₁ i ₁	light greyish-pink k w grey-white patches; 5% x-cutting VN k ₂ a; local, weak - R	
45.05	45.4	D ₁ M ₁ D ₁ H ₁	h ₁ i ₁	pervasive brownish-purple color, distinctly porphyritic; weak, pervasive - 5' weak, local green k + a bands; 2% f.g. diss pink R.	
45.4		D ₁ H ₁	h ₁ i ₁ k ₁	same as 429.5 - 438.5' above	
				EOH 454'	

DIAMOND DRILL CORE LOG

Date: Aug. 13/89

Hole Number: EB9-227

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 928.686 N

-394.791 E

Elevation: 1910.360 METRES

True Azimuth: 92.1417° DEGREES

Total Depth: 514 FEET

Dip Angle: -47.7750° DEGREES

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE

Logged by: B. Devlin

Date(s) Logged: Aug. 13/89

Drilling Contractor: Beaupre'

Size	CORE From	To	Collar Cased and Capped:
NQ	23	514	NO

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 11/89 Completed: Aug. 12/89

Acid Test
 Meas 51 1/3' Core 43.0°
 @ 204'

Meas 51 2/3' Core 43.5°
 @ 404'

DDH E89227

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	10	12.3	CASE			
		12.7	MA	h, m, k	grey-green, generally massive w minor coarse - diss = 6; FW contact w TV = 85° TCA	
		13.1	TIV	h, i	finegrained, brown, lowmagn. S & minor light green K bands; S ₁ = 5% = 80° TCA C 29'	
		15.1	5 MA	y	finegrained grey-green groundmass with 15% coarse quartz phenocrysts up to 1cm in diameter; 10% C +/- m filled amygdules; FW contact w SH = 85° TCA	
		15.25	5 SH	C	f.o. black w 5% x-cutting C stringers < 2mm in width.	
		16.25	5 TIV	h, i, k	brown w light green K patches & bands. weak, local TS beds	
		16.6	5 SH, T, S	S	v.f.g. black w minor light grey beds; trace f.g. diss 0.	
		17.8	5 T, V, T, S	h, i, k	same as 52.5-62.5' above but 20% interbedded TS beds; S ₀ = 75° TCA C 72'; FW ^(brecciated) contact w SH = 85° TCA	
		18.35	5 T, S	S	finegrained, w alternating light grey + black layers; 1% f.g. diss. 0	
		18.75	5 LM		HW & FW FO contacts = 80° TCA	
		19.5	5 SH, T, S	S, i, q, b, p, g	40% x-cutting VNq, b w 20% diss + blebby p; weak, local clay-rich gouge, weakly broken core 94.5-95': LM.	
		19.7	5 K, S, H	K, S, A, b, p	light grey-green K w local SHs interbeds; brecciated & local, VNq, p, t; 3% diss p	
		10.5	5 LM		HW FO contact = 65° TCA FW intrusive contact = 75° TCA	

DDH E89.227

Lithologic Log

Depth (ft)	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	1,055	1,115	SH ₁	S ₁ g ₁ b ₁ p ₁	v. f. g., black w 20% x-cutting stringers of VN _g , b; 3% diss & stringer p.	
		1,125	LM ₁			
		1,295	T ₁ S ₁	S ₁ b ₁	same as 78-83.5' above but w local, minor - TV _h , i interbeds; irregular, subangular - TS breccia fragments are locally abundant; S ₀ = 80° TCA @ 125'	
					115-115.5': LM ₁ - ^{thin} intrusive contact = 80° TCA	
	1,305	1,375	LM ₁		IRREGULAR intrusive contacts	
			T ₁ V ₁	h ₁ i ₁	weak, local - TS & MA interbeds; light brown w green-grey tints; weak, pervasive K	
					136.5-137': TS & O - clay gouge	
	1,385	1,595	LM ₁		irregular intrusive contacts.	
			T ₁ V ₁	h ₁ i ₁ k ₁	patchy brown & green color; local, green K x-cutting veinlets	
		1,705	T ₁ S ₁	S ₁	same as 78-83.5' above w weak, local - SH _g & TV _h , i interbeds	
					WEAK, local - x-cutting VN _g ; 10% diss o along S ₀	
					S ₀ = 70° TCA @ 165'	
					164-164.5': irregular VN _K , g, o	
	1,810		T ₁ V ₁ T ₁ S ₁	h ₁ i ₁ s ₁	dark brown w black TS interbeds; weak, local - light green K bands; 10% stringer o along S ₀	
					S ₀ = 75° TCA @ 175'	
	1,813		T ₁ X ₁	S ₁ h ₁ i ₁ o ₁	30% brecciated; subangular TS fragments in pinkish-brown porphyritic DH; weak, local - VN _g , a, 3% diss & str o.	
	1,818		D ₁ H ₁	S ₁ h ₁ i ₁ A ₁ o	fine-grained, light grey w pinkish-brown tints; 10% VN _g , o; 3% diss, f. g. o; weak, local - SS.	W

DDH 89.2.27

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	118.8	119.85	DH	hici	greyish to pink brown, crudely porphyritic in places, 10% subangular TSS fragments, weak, local - TX; 1% diss o 192-194': TXTS - m more DH	
		119.95	DH	ci	light grey; weak local - DH h.c.; 10% x-cutting VNg	
		120.4	DH	hici si	light greyish-brown; faintly porphyritic; 5% small, angular SSS fragments (<1cm); 5% diss + STR o	
		120.6	DH	similicib	greyish-green, intensely veined & brecciated w VN m +/- i + x-cutting VNg; possible fault(?)	
		121.6	DH	si hici VN o	greyish-pink color; weakly porphyritic + foliated w plag phenos aligned along Si; 5% VN g, o +/- q; 3% diss o	W
		121.35	DH	hici si	grey w brownish-pink tints; 20% subparallel grey VN g, o, i; 5% diss & blebby o, trace p; 2% coarse, diss X; VN g, o oriented c ave. 70° TCA.	M.
		121.38	DH	N hici si	pinkish-purple, locally well foliated w Si = 75° TCA; 5% STR o // to Si; o assoc w i; 3% coarse, & TSS X.	W-M
		125.15	DH	hi si	fine-grained, purple color; weak, local - VN g, +/- o; 1% diss X	
		126.85	DH	hici si	weak local - pink DHN; pervasive purple brown color; distinctly porphyritic - DP in places; weak, local - VN g, o +/- p.	
		127.9	DH	hici si	purple-brown w light grey patches; weak local - pink DHN, & m more VN g, o; 3% blebby o assoc w i locally.	

DDH E 89.22.7

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
27.9	28.55	DH ₁	S ₁ K ₁ q ₁ o ₁	light greyish-green, cut by 5% random VNq ₁ o ₁ +/-z; 3% disso 279-279.5': 1" wide VNq ₁ o ₁ z oriented c 30° TCA	
	29.5	DH ₁ DY ₁	h ₁ k ₁	brownish-purple w grey-green K patches; distinctly porphyritic in places; local, minor - VNq ₁ k ₁ o ₁ 17% disso overall	
	30.2	DH ₁	N ₁ K ₁ S ₁ l ₁ o ₁	grey-green K w locally abdt pink DH ₁ N (SQ?); locally well banded & locally intense streaks of l: S ₁ = 50° TCA c 298'	W
				3% disso. + blebby o	
	32.25	DH ₁ DY ₁	h ₁ k ₁	same as 285.5-295' above;	
				311-313: DH ₁ S ₁ K ₁ h ₁ l ₁ o ₁	
	32.45	DH ₁	s ₁ k ₁ h ₁ l ₁ o ₁	light grey-green w brownish purple patches, 5% blebby o	
	36.8	DH ₁	h ₁ l ₁	medium grained, pervasive purple color, weak local-green K patches & veinlets; weak-local VNq ₁ +/-o; 1% disso	
				343-344.5': DH ₁ K ₁ h ₁ l ₁ o ₁ moderately broken core	
	39.4	DH ₁ S ₁ S ₁	N ₁ l ₁ K ₁ l ₁ o ₁ z	grey w local pink tints, well foliated w S ₁ = 60° TCA c 370'	
				10% VNq ₁ o ₁ +/-z; local MS ₁ o ₁ q ₁ b	
				5% blebby + disso, trace p, 1% z	M-
				369-369.5': VNMS ₁ o ₁ b ₁ z ₁ p	S
				370.5-371': MS ₁ o ₁ q ₁ b	
				390-391: VNq ₁ z ₁ o ₁ z ₁ +/-K	
	40.2	DH ₁	h ₁ l ₁ K ₁ q ₁ o ₁	fine to medium grained; light purple w grey-green patches; locally foliated; 5% VNq ₁ o ₁ +/-z	
				11 to S ₁ ; 3% o, trace z	
				1" wide VNq ₁ o ₁ z c 397.5'	
				1" wide VNq ₁ o ₁ b ₁ z c 401'	

DDH E.89.227

Lithologic Log

Code	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	4,02	4,13	DH ₁ SiQ ₁	Ni ₁ OR ₁	weak, local - TVh, i, N + SS; pink & grey bands @ 80° TCA; mmor, green k to bands; 5% blebby, massive & res o assoc. w 1% z & trace cp	M
		4,175	TiS ₁	ci ₁	alternating light & dark grey beds; 10% VNe g; weak, local green k bands; 3% diss o 4% diss p w t; So = 75° TCA 7" wide VNe, b @ 43' oriented @ 60° TCA 3" wide VNe, b @ 47.5' oriented @ 50° TCA	
	4,34		DH ₁ SiQ ₁	Ni ₁ OR ₁	weak, local - SS; pervasive grey color; 20% irregular VNe, o, p, z, j; 1 speck of "V.b." @ 423.5'; 5% blebby o, 1% coarse p, trace j & z	S
	4,36		DH ₁	KO ₁	fine-grained, pervasive light- green k w weak, local purple (DH ₁ , i) + wt; mmor VNe, g, t/o, 3% g. diss & str. o	
	4,60		GIRDiR ₁	ci ₁	"Biotite (granodiorite)" (KGM) mainly greyish-white; medium ground & equigranular w minor fine-grained, dark green diorthic phases; mmor, local- DH ₁ , i, k - xenoliths 443-444.5': VNe, b, f(2) moderately broken core. 1/2" wide VNe, g, SP @ 450.5' oriented @ 30° TCA	
	4,735		DH ₁	hi, k, Si, o	pervasive purple color w light grey- green k patches & veins; 3% diss, blebby & locally massive o w trace p, cp & z locally	

DDH E89.22.7

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
47.35	47.65	G.R.		BIOTITE GRANODIORITE (KQM)	
	48.5	D.H.	h.i.k.O.	fine-grained, pervasive purple color w minor light green k veinlets & patches; weak, local - VN2 or VNq, +/- O; 3% diss & str. O	
	48.9	D.Y.	K.i.a.h.i.	grey-green w purple tints; 10% vander VN2 +/- q; weak, local & barren VNq	
	49.65	D.N.	K.i.a.h.i.	wispy light green k & pink SQ bands; weak, local - D.H.i bands; 2% blebby c	w
	51.4	D.Y.	h.i.k.R.	purple w light grey-green k patches & veinlets; 3% diss pink R	
EOH 5141					

DIAMOND DRILL CORE LOG

Date: Aug. 14/89

Hole Number: E89-228

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 956.660 N

-416.222 E

Elevation: 1905.036 METRES

True Azimuth: 91.4903° DEGREES

Total Depth: 533 FEET

Dip Angle: -37.7583 DEGREES.

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE.

Logged by: B. Delin

Date(s) Logged: Aug. 14 + 15/89

Drilling Contractor: Beaupre

Size	CORE From	To	Collar Cased and Capped:
NQ	23	533	NO

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 12/89 Completed: Aug. 14/89

Acid TEST
 MEAS @ 203' - 42 1/8°
 CORR - 34°

@ 403' - 40°
 - 31.75°

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
10	23	C, A, S, E			
	29.5	MA ₁	hi	perzeive brown color weak, local - green K patches.	
				amygdaloidal, minor augite porphyry	
	31	V, N ₁	C ₁	HW FD contact = 40° TCA	
				FW VN contact = 25° TCA	
	78.5	MA ₁	y	grey-green w weak, local - MA hi amygdaloidal & augite porphyry.	
				FW contact w TV = gradational.	
	192.5	T, V, T, S ₁	hi, si	weak, local - MA; weak, local patches of light green K.	
	186	T, S ₁	si	well bedded w alternating black & light grey beds; S ₀ = 75° TCA; weak, local - TV hi + minor, weak - green K bands	
	103.5	T, V	hi, si	fine-grained, massive, green w brown patches, weak, local - VNC	
	121.5	S, H ₁	si	v.f.g., black, locally laminated w 1% o along S ₀ ; 3% x-cutting VNC.	
	122.5	S, K ₁	K ₁	fine-grained, grey-green, massive w no sulfides	VERY WEAK
	127.5	S, H ₁	C, pi, b, f, (3)	moderate to intensely broken core, lost core w 40% core recovery locally intense VNct+g; 3% diss p. local graphite-rich gouge	
	128.5	L, M ₁			
	150.5	S, H ₁	S, C, A ₁	same as 103.5 to 121.5' above: w 5% x-cutting & subparallel VNct+g; 1% o along S ₀ S ₀ = 65° TCA @ 145'	
				146-146.5': SKK	
				159.5-160': SKK ₀	
	158.5	L, M ₁		HW FD contact = 70° TCA	
				FW intrusive contact = 60° TCA	
	162	S, K	K ₁	green fine-grained, massive 12" wide MS o.t.p @ 162' weak, local - Slt's interbed's	VERY WEAK

DDH E89228

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	116.2	116.3	S ₁ H ₁	S ₁	same as 103.5-121.5' above w	
					1% f.g. diss p.	
		116.5	L ₁ M ₁		HW & FW intrusive contacts @ 5° TCA	
		117.2	S ₁ H ₁ T ₁ S ₁	S ₁ K ₁	v.f.g., black w minor light grey beds & green k bands; weak. VNq, o assoc w K	
					166.5-167.5': SH ₃ , K, b, f (2)	
					2" wide LM dyke @ 168.5'	
		118.05	T ₁ V ₁ T ₁ S ₁	h ₁ i ₁ s ₁	brown w black & minor, local green k bands; laminated w S ₀ = 70° TCA; <1% diss o	
		118.25	D ₁ H ₁	h ₁ i ₁ a ₁	medium to coarse grained; possibly GR(?); 20% purple DH ₁ i ₁ patches; 5% a str's	
		119.5	DP		fine-grained, dark grey, porphyritic 5% subparallel K, a, c veinlets	
		120.6	T ₁ X ₁	C ₁	10% angular SH ₃ fragments in DY & locally m true "TX"; minor, local DP; 10% x-cutting stemmers of VNC	
					200.5-201': AL dyke oriented @ 45° TCA	
		120.8	L ₁ M ₁		HW & FW intrusive contacts = 45° TCA	
		121.35	D ₁ H ₁ S ₁ S ₁	S ₁ X ₁ I ₁	grey w weak, pinkish-brown tints; foliated w S ₁ = 65° TCA	
					5% angular SH ₃ fragments; 1% diss o, trace p; 5% i str's	
		122.0	L ₁ M ₁		HW & FW intrusive contacts = 35° TCA	
		122.45	D ₁ H ₁	S ₁ K ₁	greyish-white w pink tints; 1% f.g. diss o; TR p, local, a str's	
		122.85	L ₁ M ₁		IRREGULAR contacts.	
		123.3	D ₁ H ₁	h ₁ i ₁ s ₁ K ₁	pervasive pinkish-brown color w grey-white patches; minor local K +/- a patches & veinlets; trace f.g. diss o.	

DDH E89228

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
233	236	LIM		HW FO contact = 65° TCA FW FO contact = 80° TCA	
	248	DH ₁	hiisiki	same as 228.5-233' above	
	255	DH ₁	sihiioji	weak, local - DH ₁ , i; grey w minor pink bands; bands are irregular; 3% str + minor diss. O, 1% P, trace J; local, minor - C stringers 248-248.5': DH ₁ , m.b	N-M
	261	5 LIM		IRREGULAR CONTACTS	
	268	DH ₁	sihiio	grey w pinkish brown patches; weak, pervasive - light grey-green k; 1% diss O, trace P	
	271	TV, S, Q	hiigibio	30% angular, pink SQ fragments up to 1" in length in TV h, i (BS?); fragments are crudely aligned, 3% diss O	M
	291	DH ₁	sihiio	grey; faint plagioclase "ghosts" locally, diss + patchy i+x; 5% diss O, <1% diss P.	
	305	5 DH ₁ , D ₁ , Y ₁	sihiio	same as 271-291' above except plagioclase phenocrysts are locally disturbed; weak, local - DH ₁ , i	
	343	5 DH ₁	hiisigio	pervasive purple color w light grey patches; 10% patchy x-cutting stringers of VN ₂ O, +/- C; 3% O overall, trace P; locally abdt diss x moderately foliated w S ₁ = 50° TCA @ 327'	
	353	5 DH ₁	hiioi	pervasive purple color; weak, pervasive S ₁ ; 3% random VN ₂ O, 3% diss + blebby O; well foliated 1" wide ALo(?) @ 251.5' oriented @ 45° TCA	

DDH E.8.9.2.2.8

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
353.5	380.0	DH	shic	greyish-blue(?) siliceified zones w moderate purple-brown patches; 2% blebby o, locally assoc. w patchy i	
380.5		DH	shic	weak, local - pink SQ; pervasive pinkish-brown color. weak, local - x-cutting grey- green K veinlets; 1% diss o	W-M
400.5		DH	shic	same as 353.5-380' above; local, minor - IRREGULAR "GR" dykes	
409.5		DH/GR/DP	hiic	multi-phases of DH/GR/DP DH - brown w green K patches + 3% coarse diss R. GR - coarse-grained, grey-white DP - dark brown, fine-grained, w plag phenocrysts.	
411.5		DH	KSi	light grey-green, generally massive, 2% diss o	
420		DH/SS	NiXiO	dark grey (mainly grey quartz) + locally foliated; 5% blebby + minor diss. o; local MS _o 1" wide MS _o , a, b @ 417.5' oriented @ 65° TCA 419-420': pink SQ	M-S
431		SiSi	XiSi	grey-white w brown i patches & veinlets; well foliated w Si = 70° TCA @ 421'; 1% blebby o	W
441		DH	hiic	fine-grained; pervasive light purple color w light grey-green K patches	
456.5		T.V.	hiNiOj	fine-grained, dark brown w pink tints; generally massive; minor, local pink SQ bands; 3% blebby o, <1% diss j 1" wide MS _o , b @ 456.5' oriented irregularly	W-M

F

Zon

DDH E09228

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone		
4,5,6	5	4,6,9	5	T ₁ V ₁	hi,ioi	fine-grained, dark brown, generally massive but local TS beds; weak, local-green K + pink SQ; minor, weak-VN _{q,0} 3%, locally massive -O; trace diss K 2" wide VNMS _{q,0,b,CP,j} e 464' oriented e 65° TCA 1/2" MS _{0,q,j} e 469' oriented e 75° TCA	
		4,8,2	5	T ₁ S ₁ T ₁ V ₁	si,hi,ioi	alternating black, brown + green beds; S ₀ = 70° TCA e 475'; 3% O, mainly as MS ₀ stringers to 1/2" wide + locally along S ₀ ; weak-local-SK 474.5-475.5': SK K,R. 478.5-479': SK K.	
		4,8,5	5	T ₁ S ₁	ni,q,oi,j,l	grey-white w local black TS-SH beds; 30% irregular VN _{q,0,j,z,l} ; 10% locally massive & blebby O. 10% coarse, subhedral; trace z & l	/// /// M ///
		4,9,7		D ₁ Y ₁	ki,hi	pervasive grey-green w moderate, small patches; distinctly porphyritic; weak, local-VN _{q,0,z,l} 1" wide VN _{q,0,z,l} e 495' oriented e 75° TCA	
		5,0,4	5	D ₁ H ₁	k ₁	pervasive grey-green K, weak, local-VN _{q,0} ; 1% f.g. diss O	
		5,0,6	5	D ₁ H ₁ ,D ₁ Y ₁	hi,q ₁	pervasive purple color, local, distinct porphyry; 20% random VN _{q,+1-0} ; 1% blebby diss O	
		5,1,1		D ₁ H ₁	K _q	same as 496.5-504.5' above; but w 10% random VN _{q,+1-2}	
		5,3,3		D ₁ H ₁ ,D ₁ Y ₁	hi	same as 504.5-506.5' above but only weak, local-VN _q weak, + cutting - green K veins.	

516.5-517.5': DHK, q, 0

(E0H 533)

ESPERANZA EXPLORATIONS LTD.

Page 1 of 8

DIAMOND DRILL CORE LOG

Date: Aug. 15/89

Hole Number: E89-229

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 956.700 N

-417.761 E

Elevation: 1905.040 METRES

True Azimuth: 091.4903 DEGREES

Total Depth: 525 FEET

Dip Angle: -71.0 DEGREES.

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE

Logged by: B. Devlin

Date(s) Logged: Aug. 15-16/89

Drilling Contractor: Beaupre'

Size	CORE From	To	Collar Cased and Capped:
<u>NQ</u>	<u>10</u>	<u>525</u>	<u>NO</u>

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 14/89 Completed: Aug. 15/89

DDH E89229

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	10	110	C, A, S, E ₁			
		43	M, A ₁		green w brownish tints, calcite +/or chlorite filled amygdules;	
		45	S, H ₁	S, A, P ₁	5% x-cutting VNc+g, dark grey to black, 10% subparallel VNq, 3% f.g. diss p; HW VNq + c contact = 50° TCA	
	110	115	M, A ₁	Y ₁	calcite, quartz + chlorite filled amygdules + coarse auzite phenocrysts.	
	115	127.5	D, H ₁	S, K ₁	pervasive light grey-green color, medium grained, equigranular w granitic texture, < 1% f.g. diss p. local subrounded MA xenoliths.	
	127.5	138	T, V, T, S ₁	h, i, S, K ₁	dark brown w local black, grey + minor green K beds/bands; S ₀ = S ₁ = 60° TCA @ 118' < 1% stringer O along S ₀ 116 - 116.5'; SHs, p. 119.5 - 120': ALDYKE w IRREGULAR intrusive contacts 126.5 - 127': SKK.	
	138	139	S, H ₁	S, O, P ₁	v.f.g., black, thinly laminated w S ₀ = 70° TCA @ 130' 3% o+p along S ₀	
	139	139.5	T, X ₁		40% white plagioclase phenocrysts in a f.g., black matrix.	
	139.5	141	S, i, K ₁	K, i, K ₁	dark grey-green K w 10% milky VNq, 1% f.g. diss p	VERY WEAK
	141	144	L, M ₁		HW intrusive contact = 60° TCA 1" wide SHs, g, b @ 141'	
	144	153	S, H ₁	S ₁	same as 127.5 - 138' above but only 1% o+p along S ₀	
	153		T, S, S, H ₁	S ₁	alternating black + light grey beds w S ₀ = 70° TCA @ 150' 3% VNq +/-c subparallel to S ₀ ; weak, local - TV h, i, K.	

DDH E99229

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	145.3	145.4	LIM ₁		HW + FW F ₁ contacts = 70° TCA	
		145.7	TSSH	S ₁	same as 144.5 to 153' above; 2" wide graphite ribboned VNg @ 154' orientes @ 70° TCA	
		161.35	TV	hmic	light grey-green to brownish tints, generally massive; weak local - TS	
		182	TSTV	hiss	dark grey-brown to minor, local - SHs beds; local, minor - VNg, 1/2 weak, local - green K ⁺ /-alk bands; So = 65° TCA @ 175' 1" wide irregular VNg, 2 @ 167.5' 171.5 - 172': LM 3" wide VNg, 2 @ 174.5' orientes @ 65° TCA	
		188	LIM ₁		HW intrusive contact = 60° TCA FW F ₁ contact = 55° TCA	
		195	TX		angular plagioclase phenocrysts in black matrix, 5% angular SHs fragments; local, minor, DY, h, k; trace diss o.	
		197	TV	hici	brown to minor, black SHs beds; So = 60° TCA; 1% o + d along So	
		199.5	TIX	hici	pinkish-brown color; aligned plag phenos in grey-brown matrix/groundmass(?) 10% angular SHs fragments; tr diss o.	
		201.5	SH ₁	S ₁₀	v. f. g., black, crudely laminated, weak, local - SHs fragments, 30% diss o. along So	
		201.6	TIX		same as 197 to 199.5' above but only minor, pervasive h, i & 20% poorly sorted, angular; SHs fragments; 1% diss o	
		211.3	TIXD ₁		dark grey, medium grained, equigranular & foliated to aligned plag phenos in black matrix 10% f. g. o along S ₁	

DDH E.89.229

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
2,13	2,20.5	D,H	S,Xi,i,q ₁₀	minor, local - ^{TXDH + DH} grey w pinkish-brown tints; crudely foliated; 5% stringers of i w assoc. o; 5% blebby & locally "net-textured" o	W
	2,32	D,Y	S	grey color; weak, local - h,i,k; distinct porphyritic texture; 3% patchy & VNq, +/- o; <1% diss o overall	
	2,37	D,H,D,Y	S,i	medium to coarse grained; distinctly porphyritic in places; grey w patches of coarse brown i; weak, local - x; 1% diss o.	
	2,44	T,X	S	weak, local - h,i; dark greyish-brown w faint plagioclase phenocrysts & minor SHs beds + fragments in black SA matrix	
	2,47	D,H	S,K ₁₀	pervasive light grey-green color; 5% random, barren VNq. 246 - 246.5: coarse AL dyke.	
	2,59	T,X	S	same as 237' to 244' above; 1% diss o.	
	2,76.5	D,H,D,Y	h,i	pervasive light purple color; weak, pervasive - s, locally, distinct plagioclase porphyry; 3% random VNq, o; 1% STR & diss o. 261.5 - 262: LM dyke.	
	2,78	D,H,S,Q	N,q,i,o	pinkish-brown color; locally abdt pink SQ; 10% coarse, blebby o assoc. w coarse i; weak, local - green k + o.	M
	2,79.5	D,H,D,Y	S,k	pervasive light grey-green color, locally distinct plag porphyry	
	2,84.5	D,H,D,Y	h,i	same as 259 - 276.5' above; weak, local - x-cutting - green k veinlets; trace diss o	

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	2,84.5	2,95.5	D, H, DY	h, i, s, o	same as 259 - 276.5' above; 10% pervasive grey g; locally, patchy - i; 3% diss o; local, AL dykes up to 2" wide.	
		3,03	D, H	h, i, k, a	pervasive pinkish-brown color w dark, green k patches; weak local- grey g, 1% diss o; weak local VNq, o 2 1/2" wide AL dyke @ 299' oriented @ 35° TCF	
		3,15.5	D, H	h, i, k, s, o	weak local - DY; fine to medium grained, purple w local green k + a patches; 5% patchy grey g, weak local - VNq, +, o; 1% diss o 1" wide VNq, a, o + trace @ 308.5' oriented @ 40° TCF	
		3,32.5	D, H	s, h, i, x, o	pervasive bluish-grey color w local pinkish-brown patches; minor diss i + x; 3% f.g. diss o; trace, local - j	W
		3,35.5	D, H, DY	h, i, s, i	plagioclase phenocrysts in fine-grained, brown groundmass, moderately bluish-grey a - tints	
		3,38.5	D, H	h, i, k, i, j	pinkish-purple color w local, green k patches; weak local - pink SQ; weak local - VNq, k 1/2" wide VNq, a, j, o @ 335.5' oriented @ 75° TCF	W-M
		3,40	T, X	h, i, k, b	dark grey-brown w green k patches; 15% angular, SHs fragments in weakly porphyritic DH; tr diss o.	
		3,50.5	D, H	h, i, k, i	fine-grained, brownish-purple w 20% green k + a veinlets & patches; weak, local - VNq	
		3,54	T, X	h, i, k, i	same as 338.5 to 340' above; but lacking any green k.	

DDH E 8 9 2 2 9

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	3,5,4	3,5,7	D,H	h,i,k,n,j	same as 335.5 to 338.5' above; tracediss o & j; weak, local - D Y	W-M
		3,5,8	D,H,S,Q	n,i,q,k,o,b	pinkish-purple w green K patches & stringers; locally brecciated (faulted?) and chlorite +/- calcite veining; 5% coarse blebby o; FW contact = 30° TCA	M
		3,6,3	D,H	h,i	fine-grained, pervasive purple color; faintly porphyritic; weak, pervasive - S; weak, local - VNq, o ² & VN m + c, o 1" wide VNq, o, z - coarse gr. med. E 360' oriented @ 60° TCA	
		3,6,6	T,V,T,S	h,i,k,n,o	pinkish-brown - local black TS beds & minor green K bands; So = Si = 65° TCA; weak, local - pink SQ & VNq; 3% diss = o	W-M
		3,8,1	T,V	h,i,k	fine-grained, dark brown w 20% irregular green K veils & patches; 1% o +/- z assoc. w green K; trace z	
		3,8,5	T,V,S,Q	n,i,q,j	greyish-pink; well banded w Si = 70° TCA; pervasive bluish-grey q; 3% f.g. disso; trace diss j & z; weak, local diss x & i; weak, local - i & K STR'S	M
		3,9,2	T,S,T,V	s,h,i	dark grey & brown interbeds; weak, local - green K bands; So = Si = 65° TCA; trace diss o	
		3,9,5	T,V,T,S	h,i,n	pinkish-brown w minor dark grey TS beds; weak, local - pink SQ & green K bands	W
		4,0,0	D,H,S,S	s,x,i,l,o,j	light grey w light brown patches & blebs (?); moderately foliated; Si = 70° TCA 3% diss o, trace j	W-M

DDH E 89229

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	400.5	400.3	DH ₁	hi ₁ Si ₁	fine-grained; light pinkish-brown weak local - bluish-grey S; weak local VN _g , trace diss O	W
		410	SH ₁ Si ₁ Q ₁	Si ₁ Ni ₁ Q ₁ j	pinkish-brown; irregularly banded; black SHs beds w moderate pink SQ & weak local, TVh ₁ i & SS; 5% diss & locally massive C. w < 10% z & trace 409-410': irregular MSO str's	M- S
		411.3	DH ₁	hi ₁ Si ₁	same as 400.5-403' above	W
		411.5	DH ₁ Si ₁ S ₁	Si ₁ hi ₁ i ₁ j	same as 395-400.5' above except locally moderate-DH ₁ i patches - 1% diss & trace weak local - VN _g c upto 1/4" wide	W
		411.8	DH ₁	hi ₁ Ni ₁ Q ₁ j	fine-grained, pinkish-brown, w local, minor - green patches & 15% random & subparallel VN _g c; 2% diss & blebby c, trace j; weak, local - pink SQ	M
		420	MA ₁	hi ₁ K ₁	brown w light green K patches, fine to medium grained, amygdaloidal, mottled texture; "MA dyke" (?) HW F① contact = 45° TCA	
		44.5	DH ₁	hi ₁ K ₁	weak, local - DY; pervasive purple color w light grey- green K patches & veinlets; weak, local, random - VN _g 1/4-1/2 442-442.5': DH K, O, z, F① 444.5 - 445': DH K, F①	
		44.65	TV ₁ Si ₁ Q ₁	Ni ₁ Q ₁ g ₁ o	dark grey w dark green patches crudely banded, weak-local-pnk SQ minor, local VN _g c; 5% diss & blebby c, trace cp & j	M- S

DDH E89229

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	4,46.5	4,49	DH ₁	S ₁ h ₁ i ₁	coarse grained, grey-white w local purple tints; weak local-green k, trace d ₁ ss, 0 TR d ₁ ss, pink R	
		4,53	T ₁ S ₁ S ₁ Q ₁	M ₁ q ₁ o ₁ i ₁	pink to dark grey to black interbeds; local, minor-pink SQ 3% d ₁ ss, blobby + str o ₁ , trace d ₁ ss; + z	/// M- ///
		4,72.5	T ₁ S ₁	S ₁ o ₁	interbedded black & light grey beds w local, minor TVh, i + SHs interbeds: S ₀ = 70° TCA C 463'; 5% blobby + locally massive o ₁ ; D str's parallel to S ₀ , weak, local-green k bands to S ₀	
		4,82.5	LM ₁		HW FD contact = 50° TCA FW intrusive contact = 45° TCA	
		5,03.5	TV ₁	h ₁ i ₁ o ₁ i ₁	fine-grained, dark brown w weak, local-green k patches; 5% stringer & locally massive o ₁ , w up to 1% assoc. j 1" wide MS ₀ , j, g, b C 492' oriented C 65° TCA 500-501': LM dyke	
		5,11.1	LM ₁		HW FD contact = 30° TCA	
		5,11.5	TV ₁	h ₁ i ₁ o ₁ k ₁	same as 482.5 to 503.5' above; no j + moderate subparallel-green k stringers; S ₁ = 60° TCA	
		5,11.3	DH ₁ D ₁ Y ₁	S ₁ h ₁ i ₁	light grey, w purple patches, faintly porphyritic trace D	
		5,11.4	S ₁ G ₁ R ₁ D ₁ R ₁		light greyish-green granodiorite cut by 20% AL dykes; moderate broken core, possible fault?	
		5,12.5	D ₁ R ₁	i ₁ m ₁	Biotite Diorite (KQM) medium grained, equiaxed, granitic texture, local, minor GR phases: i → m	

ECH 525'

DIAMOND DRILL CORE LOG

Date: Aug. 17/89

F

Hole Number: E89-230

Project: TILlicum MOUNTAIN PROPERTY

Location: TILlicum MTN., BURTON, B.C.

Claim: _____

Terr. Plane Co-ords.: 55337000m N

449000m E

Grid Co-ords: 998.710 N

-434.683. E

Elevation: 1895.284 METRES

True Azimuth: 89.4958° DEGREES

Total Depth: 557 FEET

Dip Angle: -59.1278° DEGREES

Purpose: TO TEST EAST RIDGE ZONE

Reason hole Terminated: IN FOOTWALL OF ZONE

Logged by: B. DEVLIN

Date(s) Logged: Aug. 17/89

Drilling Contractor: BEAUPRE

Size	CORE From	To	Collar Cased and Capped: <u>NO</u>
<u>NQ</u>	<u>12</u>	<u>557'</u>	

Hole Cemented: NO

Steel down hole: NO

Started: Aug. 15/89 Completed: Aug. 17/89

DDH E89230

Lithologic Log

Case	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	110	112	C, F, S, E			
		124.5	M, A	K ₁	light grey-green color, amygdaloidal & weak local - augite porphyry	
		134	L, M		FW intrusive contact = 45° TCA	
		151	M, A		amygdaloidal x-cutting VNg, weak local - MAh _i	
		176	M, A	h ₁ K ₁	brown color, weak local - x-cutting green kveinlets; 10% x-cutting VNg; weak local TS & TV interbeds	
		178.5	M, A	K ₁ N ₁	grey-green, massive & weak local VNg + l-c; < 1% diss o	W
		102.5	D, H	S, K ₁	light grey-green, equiaxular w granitic texture; 3% random barren VNg; 1% diss p + r o	
		113.5	M, A	K ₁ h ₁ K ₁	light grey-green to local brown patches; locally amygdaloidal; 5% x-cutting VNg	
		123	T, S, T, V	S, h ₁ K ₁	alternating beds of black, brown, light grey & light green k; S ₀ = 90° TCA @ 117'	
		141	T, V	h ₁ K ₁	brown to green k patches fine-grained & massive; weak local - SHs beds & angular frags.	
		146.5	S, H	S ₁	black, v.f.g., weak local - light grey beds; 1% o + l-p along S ₀ ; S ₀ = 75° TCA	
		148	S, H	a, c, b, f, B	shale breccia cemented w a + l-c; granitic gouge; 1% p.	
		152	T, S	S, K ₁ a, p, p	black & light grey beds w patchy green k & subparallel to S ₀ - VNg; 3% diss o + p.	W
		162	L, M		IRREGULAR AW & FW intrusive contacts.	

W
W
W

DDH E89.230

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	1,6,2	1,6,4.5	TX ₁		40% grey-white, matrix - supported, plagioclase phenocrysts in v.l.g. black SH matrix; local SH frags + trace d'iss p.	
		1,7,0	LIM ₁			
		1,7,2	TX ₁		same as 162-164.5' above	
		1,7,9.5	LIM ₁		HW VNe, M, F contact = 70° TCA	
		2,0,9.5	S, HTX ₁	S ₁	dark grey to black, moderate, local - plagioclase phenocrysts in SH ₂ matrix; weak, local - TV m.c. 5% angular SH ₂ fragments; 1% d'iss o; evde S ₀ = S ₁	
		2,1,4	M, ADH ₁	K, S ₁	fine-grained local medium green, grey-green to weak, local - purple patches; 10% a-titled amygdules 209.5-210.5': DH ₁ , k. 213.5-214': DH ₁ , k, h, i	
		2,3,0	S, HTV ₁	S ₁ , h, i	weak, local - TX; black to local brown TV beds; weak, local - overn k bands; S ₀ = S ₁ = 70° TCA @ 220'; 1% o along S ₀	
		2,3,3.5	TX ₁	S ₁	dark pinkish-brown color; 40% pinkish-white plag phenos in SH ₂ matrix + plag aligned along S ₁	
		2,3,4.5	LIM ₁		possibly "MA duke" (?); HW + FW F@ contacts = 50° TCA	
		2,3,9	TX ₁	S ₁	same as 230-233.5' above; ± 5% angular SH ₂ fragments	
		2,4,9	TX, DH ₁	S ₁ , N ₁	pinkish-brown to black SH ₂ interbeds & fragments; minor pink SG & overn SKK, g, o; 2% d'iss o; true TX in places 239-240': DH H, i, k, N	W-M

DDH 89230

Lithologic Log

From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
2,49	2,58.5	S ₁ H ₁	S ₁ N ₁ O ₁ j ₁	black, v. f.g.; with mmor green SK + pink SQ interbeds. S ₀ = S ₁ = 80° TCA @ 255'; 3% diss + str. O, mainly along So. trace f.g. diss j	W
2,89		S ₁ H ₁ T ₁ V ₁	S ₁ N ₁ O ₁ j ₁	same as 214 - 230' above; weak, local - irregular green SK k bands; 1% O.	
2,91.5		G ₁ R ₁ A ₁ L ₁		289 - 289.5': medium massed Eratite Gneiss (K&M) 289.5 - 290: coarse white AL w few intrusive contacts = 60° TCA	
2,92.5		S ₁ H ₁	S ₁	v. f.g., black, massive; weak, local - SK k + random VN q.	
2,98		L ₁ M ₁			
3,6.6		T ₁ V ₁	h ₁ i ₁ m ₁ i ₁ s ₁ k	brown w grey-green k patches; generally massive w weak, local - SHs beds. S ₀ = 70° TCA @ 335'; 1% diss O, locally concentrated in k bands 328 - 328.5': AL dyke w Hw + fw intrusive contacts = 45° TCA	
3,6.9		T ₁ V ₁	N ₁ j ₁	dark purplish-pink w pink SQ & mmor, green SK k bands; Kbands = 60° TCA; tr. diss o + j	W-M
3,7.1		D ₁ H ₁	S ₁ N ₁ i ₁ m ₁ i ₁ j ₁	bluish-grey q w pink + green patches; 10% random VN m; diss i + trace x; 1% diss j	W-M
3,8.0		T ₁ V ₁ D ₁ H ₁	S ₁ h ₁ i ₁ m ₁ R	fine-grained, hard, light purple color with grey-green patches; VN m + x up to 3" wide; coarse VNe @ 379' oriented @ 15° TCA; 3% diss pink R.	
3,8.1		D ₁ H ₁ S ₁ S ₁	S ₁ x ₁ j ₁	bluish-grey q; cloudy foliated, x // to S ₁ ; m on beds, diss i trace diss o + j	W-M

DDH E 09.2.3.0

Lithologic Log

Code	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	38.1	38.25	DH	S ₁ M ₁ L ₁	same as 369 to 371' above but no VNm	W-M
		38.35	TV	shic	fine-grained, massive, light purple brown, hard; tr ₁ diss R 1 1/2" wide VNq, o, j, cp @ 382.5' oriented @ 50° TCA	
		39.15	TV	h ₁ c ₁ m ₁	dark brown w grey-green patches - weak, local - green veinlets & patches; soft, tracc diss p 391 - 391.5': TV N, D	
		40.1	LM		HW intrusive contact = 30° TCA FW " " = 15° TCA	
		40.25	TV	N ₁ K ₁ Q ₁ P ₁	green w dark bands; locally boundaries SK, K, g bands; weak local - pink SK - mmorm; 5% VNq, +/- p; 3% diss p	W-M
		40.6	TV	h ₁ c ₁	dark brown, soft, with minor, local - green k bands, weak, local - TSs	
		40.8	T ₁ S ₁ M ₁ S ₁	S ₁ N ₁ K ₁ O ₁ Z	dark grey to black w patchy green SK & minor MS _{0,2} ; z; minor, VNq, o; 10% o, 2% z; tracc cp. 1" wide MS _{0,2} @ 406' 1" wide MS _{0,2} a, b @ 407.5' oriented @ 90° TCA	M
		41.85	T ₁ S ₁ S ₁ H ₁	S ₁ O ₁ J ₁	v.f.g., black, minor light grey beds; weak, local - VNq, & TSN; 3% o, along So; < 1% j, tracc z & cp. So = 30° TCA @ 412'	
		42.05	T ₁ S ₁ TV	S ₁ K ₁ N ₁ H ₁	black, green, white & brown bands; moderate K-marble +/- g beds; < 1% diss o weak - VNq, patchy c	W

DDH E 89 230

Lithologic Log

Core	From (ft)	To (ft)	Lithology	Alter'n	Description	Zone
	420.5	442	T ₁ V ₁ T ₁ S ₁	hi, k, si	brown w grey-green patches + minor, grey TS beds; well banded & bedded w S ₀ = S ₁ = 80° TCA @ 430' 1% drss o along S ₀ 424.5 - 425': AL dyke 2" wide MSO, z, j, q, b @ 441.5' oriented @ ~ 50° TCA	
	451.8	5	T ₁ V ₁	hi, m	dark brown w dark green patches; fine-grained, generally massive; weak, local-D _R 1" wide MSO @ 455'	
	461.7		T ₁ S ₁ T ₁ V ₁	si, n, q, o, j	pinkish-brown w black + grey TS interbeds; weak, local- banded SK k, q, o bands; 5% v Na, o, j; minor, drss i + x; local MSO + pink SQ 1" wide MSO @ 458.5' 2" wide MSO @ 462'	W-M
	481.6	5	L ₁ M ₁			
	540		D ₁ R ₁		grey-green, medium grained, equigranular & "granitic texture"; Hb-Biotite DIORITE (KQM) i → m; minor sparse, felsic (R) phases. local, minor V ₁ R ₁ P ₁ late-ore related FW contact w DH	
	546		D ₁ H ₁	hi, si, n, o	fine to medium grained, pinkish- purple w bluish-grey q patches; minor local - a bands + pink SQ. 3% drss o t ₁ -p; drss i	W-M
	552		D ₁ H ₁	hi, si, KR	fine-grained; light purple-brown w minor grey-green patches; 5% R.	
	556		D ₁ H ₁	cm, bp	calcite & minor chlorite cemented DH breccia; angular DH frags to 1" across; weak, DH ₁ i - 3% calc p. HW VN contact = 30° TCA FW VN contact = 150° TCA	
	557		D ₁ H ₁	hi, si, KR	same as 546 to 552' above	

E 89 557'

APPENDIX II

TILlicum MIN PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-221

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/T Au	oz/T Ag	MINERALS PZ/T Au		DESCRIPTION
	Metres	Feet	Metres	Feet					
37245		118.5 - 121.5			.016	.344			
6		121.5 - 125			.022	.018			
7		129.5 - 132			.008	.352			
8		132 - 135			.006	.154			
9		135 - 138			.002	.018	.001		
50		138 - 141.5			.002	.018			
1		141.5 - 143.5			.002	.178			
2		143.5 - 146			.002	.038			
3		146 - 149			.002	.018			
4		149 - 151			.004	.002			
5		151 - 153			.014	.286			
6		153 - 155			.020	.100			
7		155 - 156.5			.004	.176			
8		156.5 - 157.5			.002	.078			
9		157.5 - 160.5			.004	.038			
60		160.5 - 162.5			.006	.154			
1		162.5 - 165			.032	.248			
2		165 - 167			.022	.618			
3		167 - 170			.006	.134			
4		170 - 173			.008	.052			

TILlicum MIN PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. 289-221

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		OZ/T Au	OZ/T Ag	MINEN Au		DESCRIPTION
	Metres	Feet	Metres	Feet					
37265		173-175			.008	.152			
6		175-178			.004	.002			
7		178-181			.004	.036			
8		181-184			.002	.038			
9		184-187			.002	.158			
70		187-190			.002	.058			
1		190-193.5			.004	.002			
2		193.5-197.5			.002	.018			
3		197.5-199			.016	.184			
4		199-202			.012	.188			
5		202-205			.008	.072			
6		205-208			.006	.002			
7		208-211			.012	.002			
8		211-214			.024	.156			
9		214-216.5		2.5	.040	.002			0.110/
80		216.5-219		2.5	.112	.002	.163	AVE. ".138"	0.150/
1		219-221		2.0	.164	.002			/4.5'
2		221-224			.010	.002			(TW=4.4')
3		224-227			.004	.002			
4		227-230			.004	.002			

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E 80-221

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	Re-check Au	Re-check Ag	MIN-EN Au	DESCRIPTION
	Metres	Feet	Metres	Feet						
37285		230-233			.002	.002				
6		233-235			.002	.002				
7		235-237			.008	.002				
8		237-239.5			.002	.002				
9		239.5-241.5			.010	.002				
90		241.5-244			.006	.002				
1		244-246.5			.018	.002				
2		246.5-248.5			.036	.004				
3		248.5-251			.034	.002				
4		251-254			.008	.002				
5		254-256		2.0	.018	.002				
6		256-258.5		2.5	.090	.090				
7		258.5-259.5		1.0	.012	.002				.052 / 6.0' (true width = 5.9') "B ZONE"
8		259.5-262		2.5	.030	.002				
9		262-264.5		2.5	.032	.002				
37300		264.5-266.5			.018	.002				
1		266.5-268.5			.012	.008				
2		268.5-271		2.5	.008	.072				
3		271-273.5		2.5	.034	.186				
4		273.5-275.5		2.0	.576	1.104	.528	1.032	.517	AVE: .539 Au / 1.068 Ag.

TILlicum MIN PROPERTY

Page No. 4

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E80-221

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		217 Au	247 Ag	Re-check		MIN EN Au	DESCRIPTION
	Metres	Feet	Metres	Feet			Au	Ag		
37305		275.5-276.5'		1.0	1.884	3.136	2.568	3.352		AVE. 2.226 Au / 3.244 Ag
6		276.5-277.5		1.0	.076	.204			.074	<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">.576 / 6.0'</div> (TRUE WIDTH = 5.9') "A ZONE"
7		277.5-279.5		2.0	.038	.102				
8		279.5-282		2.5	.022	.198				
9		282-285			.004	.002				
310		285-287.5			.002	.002			.004	
1		287.5-289.5			.002	.098				
2		289.5-290.5			.004	.136				
3		290.5-292.5			.006	.074				
4		292.5-295			.008	.092				
5		295-298			.010	.002				
6		298-301			.008	.032				
7		301-304			.004	.096				
8		304-306			.004	.056				
9		306-309			.002	.018				
320		309-312.5			.008	.012				
1		312.5-315			.010	.070				
2		315-318			.008	.072				
3		318-321			.022	.098				
4		321-323.5			.010	.196				

417 / 85'

TILlicum LN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E 89-221

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37325		323.5-326			.018	.102		
26		326-328.5			.058	.122		
27		328.5-331			.038	.102		
28		331-333.5			.004	.076		
29		333.5-336			.002	.138		
30		336-338			.002	.018		
31		338-340			.004	.136		
32		340-342			.046	.294		
33		342-344.5			.002	.002		
34		344.5-346.5	2.0		.088	.052		0.090 /
35		346.5-348.5	2.0		.092	.068		/ 4.0' (T.W. = 3.9') "A1 ZONE"
36		348.5-350.5			.002	.002		
37		350.5-352.5			.028	.002	.018	
38		352.5-354			.018	.002		
39		354-358			.002	.018		
40		358-361			.008	.002		
41		361-364			.008	.032		
42		364-367			.002	.002		
43		367-370			.006	.054		
44		370-373			.004	.056		

TILlicum LN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E99-221

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag			DESCRIPTION
	Metres	Feet	Metres	Feet					
37345		373 - 375.5			.008	.032			
46		375.5 - 378			.002	.038			
47		378-381			.002	.002			
48		381 383.5			.006	.002			
49		383.5 387			.034	.066			
50		387-390			.010	.010			
51		390-393			.008	.002			
52		393-396			.004	.016			
53		396-399			.004	.016			
54		399-402			.002	.002			
55		402-405			.006	.034			
56		405-408			.006	.114			
57		408-410			.008	.072			
58		410-413			.006	.074			
59		413-416			.012	.028			
60		416-419			.002	.038			
61		419-422			.006	.034			
62		422-425			.006	.174			
63		425-428			.004	.076			
64		428-431			.012	.028			

TILlicom MIN PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E 89-222

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37474		55-57			.036	.004		
37366		152-155			.006	.034	.004	
367		166.5-170			.002	.038		
68		170-173			.008	.112		
69		173-176			.004	.116		
70		176-180			.004	.056		
71		180-184			.002	.058		
72		184-187			.002	.002		
73		187-190			.002	.138		
74		190-193			.002	.058		
75		193-196			.004	.002		
76		196-198.5			.002	.002		
77		198.5-202.5			.004	.002		
78		202.5-204			.002	.018		
79		204-207			.006	.094		
80		207-210			.002	.058		
81		210-212			.012	.088		
82		212-214			.004	.176		
83		214-217			.004	.056		
84		217-219			.014	.206		
85		219-222			.006	.214		

TILlicum PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E 89-222

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37386		222-225			.010	.330		
87		225-228			.018	.142		
88		228-230.5			.002	.098		
89		230.5-233.5			.012	.168		
90		233.5-236			.004	.116		
91		236-238			.004	.002		
92		238-240			.004	.002		
93		240-243			.004	.016		
94		243-246			.066	.474	.067	
95		246-248			.042	.338		
96		248-250			.006	.354		
97		250-252			.008	.002		
98		252-256			.002	.118		
99		256-260			.002	.118		
37400		260-263			.008	.032		
01		263-265.5			.004	.156		
02		265.5-268.5			.010	.030		
03		268.5-271.5			.008	.002		
04		271.5-274			.010	.050		
05		274-277			.006	.002		

TILlicum LN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E87-222

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	LxA	DESCRIPTION
	Metres	Feet	Metres	Feet					
37406		277-279.5			.014	.002			
7		279.5-282			.032	.048			
8		295-298			.028	.232			
9		298-300		2.0'	.060	.080		0.120	
37410		300-302		2.0'	.030	.002		0.060	0.181 / 8'
11		302-305		3.0'	.006	.174		0.018	
12		305-308		3.0'	.456	.114		1.368	0.220 / 6.5'
13		308-310.5		2.5'	.012	.108		0.030	(T.W=5.3') "B ZONE"
14		310.5-311.5		1.0'	.030	.150		0.030	
15		311.5-314		2.5'	.028	.072			
16		314-316			.014	.026			
17		316-318			.032	.108			
18		318-321			.040	.020	.032		
19		321-324			.024	.002			
37420		324-326.5			.022	.058			
1		326.5-329			.020	.160			
2		329-332			.020	.160			
3		332-334.5		2.5'	.140	.160		0.350	(T.W=6.0') "A ZONE"
4		334.5-336.5		2.0'	.040	.020		0.080	0.077 / 9.5'
5		336.5-339.5		3.0'	.050	.170		0.150	7.5

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. ED9-222

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/T Au	oz/T Ag	LxA	DESCRIPTION
	Metres	Feet	Metres	Feet				
37426		339.5-341.5		2.0'	.056	.064	0.112	0.073/9.5'
7		341.5-344.5			.022	.158		
8		344.5-347			.030	.002		
9		347-348.5			.014	.026		
37430		348.5-350			.026	.074		
1		350-351			.030	.170		
2		351-353			.028	.092		
3		353-356			.022	.058		
4		356-358.5			.028	.032		
5		358.5-361			.042	.058		
6		361-364			.046	.014		
7		364-367			.030	.050		
8		367-369.5			.024	.036		
9		369.5-371			.028	.032		
37440		371-373			.026	.014		
1		373-374.5			.036	.044		
2		375-376			.028	.002		
3		376-379			.038	.022		
4		379-382			.032	.108		
5		382-385			.012	.108		

TILlicum PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E 89-222

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/T Au	oz/T Ag	MINEN Au	LxA	DESCRIPTION
	Metres	Feet	Metres	Feet					
37446		385-386.5			.022	.038			
7		386.5-389.5			.008	.012			
8		389.5-392.5			.006	.054			
9		392.5-395			.004	.002			
37450		395-396			.002	.002			
1		396-399			.004	.002			
2		413-416			.008	.092			
3		416-418		2.0	.022	.098	.020	0.044	0.144 /
4		418-420.5		2.5	.058	.302		0.145	/ 7' // .193/5.0'
5		420.5-423		2.5	.328	.492		0.820	(TW=5.6') "A2 ZONE"
6		423-425			.014	.046			
7		425-426.5			.008	.052			
8		426.5-428.5			.010	.030			
9		428.5-431.5			.028	.002			
37460		431.5-434.5			.004	.076			
1		442-443			.012	.228			
2		456.5-457.5			.024	.052			
3		457.5-460			.012	.008			
4		460-461			.092	7.688			
5		461-463			.012	.028			

TILlicum M.W. PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-223

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag			DESCRIPTION
	Metres	Feet	Metres	Feet					
37475		65-68			.002	.038			
6		68-71			.002	.002			
7		71-73.5			.012	.002			
8		73.5-75.5			.002	.002			
9		75.5-78			.002	.018			
80		78-81			.004	.056			
1		81-84			.002	.078			
2		84-87			.008	.152			
3		87-90			.010	.110			
4		90-92.5			.004	.036			
5		92.5-94.5			.010	.050			
6		94.5-97			.002	.058			
7		97-100			.006	.234			
8		100-103			.010	.070			
9		103-106			.012	.068			
90		106-109			.008	.052			
1		109-111.5			.004	.056			
2		111.5-114.5			.002	.018			
3		114.5-117			.008	.002			
4		117-119			.004	.116			

TILlicum M.W. PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-223

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/T Au	oz/T Ag			DESCRIPTION
	Metres	Feet	Metres	Feet					
37495		119-122			.002	.038			
6		122-125			.008	.092			
7		125-128			.004	.076			
8		128-131			.002	.078			
9		131-134			.008	.012			
500		134-137			.002	.138			
1		137-139			.004	.076			
2		139 - 140.5			.002	.178			
3		140.5 - 143			.004	.002			
4		143 - 146			.004	.002			
5		146 - 149			.006	.154			
6		149 - 152			.014	.146			
7		152 - 154.5			.004	.096			
8		154.5 - 156.5			.010	.010			
9		156.5 - 157.5			.004	.076			
10		157.5 - 159.5			.002	.016			
1		159.5 - 161.5			.002	.002			
2		161.5 - 163.5			.006	.114			
3		163.5 - 165.5			.008	.132			
4		165.5 - 167.5			.008	.032			

TILlicum PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-223

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/T Au	oz/T Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37515		167.5 - 169.5			.004	.116		
6		169.5 - 172			.010	.002		
7		172 - 175			.030	.010		
8		175 - 178			.022	.058	.018	
9		178 - 180.5			.012	.002		
20		180.5 - 183			.010	.010		
1		183 - 186			.004	.002		
2		186 - 188			.004	.002		
3		188 - 190			.002	.002		
4		190 - 193			.002	.118		
5		193 - 195			.004	.056	.001	
6		195 - 197			.006	.014		
7		197 - 200			.004	.116		
8		200 - 203			.002	.002		
9		203 - 205.5			.004	.056		
30		205.5 - 207.5			.006	.054		
1		207.5 - 211			.006	.034		
2		211 - 214			.012	.088		
3		214 - 217			.050	.090		
4		217 - 219.5			.016	.044		

TILlicum LN PROPERTY


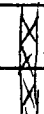
ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-223

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag			DESCRIPTION
	Metres	Feet	Metres	Feet					
37535		219.5 - 222			.018	.202			
6		222 - 224			.016	.204			
7		224 - 227			.008	.112			
8		227 - 229			.050	.110			
9		229 - 231			.020	.220			
40		231 - 234			.012	.128			
1		234 - 236.5			.010	.110			
2		236.5 - 239			.014	.002			
3		239 - 242			.010	.002			
4		242 - 245			.006	.174			
5		245 - 248			.008	.112			
6		248 - 250.5			.010	.070			
7		250.5 - 253		2.5	.088	.912			
8		253 - 255		2.0	.040	.660			
9		255 - 257		2.0	.014	.002			
50		257 - 260			.004	.056			
1		260 - 263			.004	.076			
2		263 - 265			.006	.054			
3		265 - 268			.002	.002			
4		268 - 269			.002	.002			


 .067
 4.5

 .050
 6.5 (TW=4.8') "BZONE"

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-223

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	LxA	DESCRIPTION
	Metres	Feet	Metres	Feet				
37555		269- 270.5			.008	.112		
6		270.5- 273			.010	.110		
7		273- 276			.002	.002		
8		276- 279			.024	.636		
9		279- 282			.006	.154		
60		282- 285			.010	.150		
1		285- 288.5			.004	.016		
2		288.5- 291			.036	.144		
3		291- 293			.020	.220		
4		293- 294			.022	.358		
5		294- 296	2.0'		.050	.450	.180	
6		296- 297	1.0'		.022	.318	.022	.064/5.0' (TW=3.7')
7		297- 298	1.0'		.038	.362	.038	0.055/
8		298- 299	1.0'		.082	.462	.082	/11.5'
9		299- 301	2.0'		.026	.054	.052	.049/5.0'
70		301- 303	2.0'		.056	.044	.112	
1		303- 305.5	2.5'		.060	.420	.150	
2		305.5- 308			.026	.214		
3		308- 311			.022	.098		
4		311- 314			.026	.434		

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-223

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		0211 Au	0217 Ag	MINEN Au	LxA	DESCRIPTION
	Metres	Feet	Metres	Feet					
37575		314-317		3.0	.080	.160		.240	
6		317-320		3.0	.040	.120		.120	
7		320-323		3.0	.100	.220		.300	"A ZONE" .168/4.5'
8		323-324.5		1.5	.320	.320	.286	.455	AVE: .150 6.0' 303 Au
9		324.5-326		1.5	.090	.350	.105	.147	AVE: 0.098 Au (TW=4.4')
80		326-328.5		2.5	.018	.222		.045	.099/
1		328.5-331		2.5	.024	.296		.060	/19.5'
2		331-333.5		2.5'	.228	.412		.570	
3		333.5-336			.028	.212			
4		336-339			.010	.110			
5		339-342			.010	.002			
6		342-345			.006	.002			
7		345-348			.004	.036			
8		348-350			.018	.062			
9		350-352.5			.012	.048			
90		352.5-355.5		3.0'	.114	.146		.342	.061/ "A1 ZONE"
1		355.5-358.5		3.0'	.010	.090		.030	/9'
2		358.5-361.5		3.0'	.058	.002		.174	(TW=6.0')
3		370-371			.024	.176			
4		371-373			.002	.078			

TILlicum MIN PROPERTY

Page No. 1EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E 89-224

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t	oz/t	MINESW Au		DESCRIPTION
	Metres	Feet	Metres	Feet	Au	Ag			
37601		127-130			.004	.196			
02		130-134			.002	.002			
03		134-137			.002	.002			
04		137-140			.002	.098			
05		140-143			.004	.176			
06		143-146			.002	.002	.001		
07		146-149			.002	.002			
08		149-152			.002	.018			
09		152-155			.002	.002			
10		155-158			.002	.118			
11		158-161			.002	.018			
12		161-164			.002	.058			
13		164-167			.002	.398			
14		167-170			.004	.002			
15		170-173			.004	.002			
16		173-176			.004	.256			
17		176-178.5			.008	.032			
18		178.5-180.5			.002	.002			
19		180.5 183.5			.004	.036			
20		183.5 186			.004	.076			

1989

ESPERANZA EXPLORATIONS LTD.

Page No. 2

TILlicum MTN

Property

SAMPLE LEDGER

E 89-224 ZONE

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz17 Au	oz15 Ag			DESCRIPTION
	Metres	Feet	Metres	Feet					
37621		186-189			.008	.132			
22		189-192.5			.016	.064			
23		192.5-195			.006	.114			
24		195-196.5			.008	.032			
25		196.5-200			.006	.154			
26		200-204			.002	.098			
27		204-207			.006	.094			
28		207-209			.004	.056			
29		209-210.5			.006	.002			
30		210.5-214			.004	.016			
31		214-216.5			.002	.038			
32		216.5-220			.004	.002			
33		220-224			.006	.114			
34		224-228			.004	.096			
35		228-231			.004	.076			
36		231-233			.006	.014			
37		233-235			.026	.854			
38		235-238			.030	.330			
39		238-240			.032	.328			
40		240 243.5			.040	.340			

1989

TILlicum MTN

Property

ESPERANZA EXP. RATATIONS LTD.

SAMPLE LEDGER

Page No. 3

E89-224 ZONE

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/l	oz/l	MINEN	AVE:	DESCRIPTION
	Metres	Feet	Metres	Feet	Au	Ag	Au	Au	
37641		262-265			.010	.002			
42		265 - 267.5			.010	.170			
43		267.5 - 270			.016	.164			
44		270 - 274			.012	.008			
45		274-278			.022	.098			
46		278-280			.030	.190			
47		280 - 281.5			.026	.174			
48		281.5 - 284			.008	.392			
49		284 - 286			.010	.010			
50		286 - 288			.010	.050			
51		288 - 290.5	2.5		.048	.292	.043	.046	.046/5.0' "A ZONE"
52		290.5 - 293	2.5		.050	.170	.042	.046	(TW=4.6')
53		293 - 296			.010	.002			
54		296 - 299			.010	.002			
55		299 - 300.5			.016	.024			
56		300.5 - 303			.010	.002			
57		303 - 305.5			.002	.002			
58		305.5 - 308			.008	.092			
59		308 - 311			.022	.038			
60		311 - 313			.020	.120			

1989

TILlicum MTN

Property

ESPERANZA EXPLORATIONS LTD.

SAMPLE LEDGER

Page No.

4

F

EAST RIDGE

ZONE

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au		DESCRIPTION
	Metres	Feet	Metres	Feet					
37661		313 - 315.5			.040	.160			E 89 - 224
2		315.5 - 319			.010	.110			
3		319 - 322			.006	.054			
4		322 - 324			.010	.150			
5		324 - 327			.006	.002			
6		327 - 330			.004	.076			
7		330 - 333			.004	.032			
8		333 - 335			.006	.002			
9		335 - 338			.004	.002			
37670		338 - 341			.002	.002			
1		341 - 344			.006	.074			
2		344 - 354.5		2.5	.012	.002			
3		354.5 - 356		1.5	.160	.200			
4		356 - 358		2.0	.234	.246	.055		.124/6.0' "A1 ZONE"
5		358 - 360.5		2.5	.014	.006			(TW = 5.6')
6		371 - 373			.022	.018			
7		373 - 375			.016	.064			
8		375 - 377			.022	.098			

TILlicum M.W. PROPERTY

Page No. 1

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E 89-225

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/T Au	oz/T Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37679		29.5-32			.018	.122		
37680		32-34.5			.002	.002	.001	
1		34.5-37			.002	.098		
2		44.5-46			.008	.112		
3		139-142			.008	.002		
4		142-145			.012	.002		
5		145-148			.010	.002		
6		148-150.5			.012	.008		
7		150.5-151.5			.014	.086		
8		151.5-154			.004	.036		
9		154-156			.004	.076		
37690		156-158			.004	.076		
1		158-159.5			.006	.134		
2		159.5-161			.008	.112		
3		161-164			.006	.074		
4		164-167			.006	.074		
5		167-170			.006	.014		
6		170-173			.002	.058		
7		173-175.5			.002	.002		
8		175.5-177.5			.010	.110		

TILlicum M_U PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E 89-225

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37699		177.5-180			.006	.002		
37700		180-183			.006	.074		
1		183-186			.004	.056		
2		186-189			.002	.058		
3		189-191.5			.006	.002		
4		191.5-194			.002	.038		
5		194-197			.012	.098		
6		197-199.5			.014	.066		
7		199.5-201.5			.006	.114	.006	
8		201.5-204			.002	.058		
9		204-207			.002	.098		
37710		207-210			.004	.076		
1		210-213			.002	.002		
2		213-216			.002	.002		
3		216-219			.002	.058		
4		219-220			.006	.134		
5		220-223			.002	.058		
6		223-226			.002	.002		
7		226-229			.002	.002		
8		229-231.5			.004	.002		

TILlicum M^W PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-225

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/7 Au	oz/7 Ag	MINEN Au	AVE: Au	DESCRIPTION
	Metres	Feet	Metres	Feet					
37719		231.5-233.5			.006	.034			
37720		233.5-235			.004	.006			
1		235-238			.004	.002			
2		238-241			.010	.030			
3		241-244			.010	.010			
4		244-246			.014	.066			
5		246-247			.002	.058			
6		247-250			.002	.098			
7		250-253			.004	.036			
8		253-256			.002	.002			
9		256-259			.002	.002			
730		259-262			.002	.002			
1		262-265			.002	.002			
2		265-267			.014	.002			
3		267-268.5			.010	.030			
4		268.5-270.5			.008	.012	.007		
5		270.5-272.5			.004	.056			
6		272.5-275			.012	.288			
7		275-278		3.0'	.050	.210	.047	.049	.045/5.0' "A ZONE"
8		278-280		2.0'	.044	.236	.035	.040	(TW=4.9')

TILlicum M.W. PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. 89-225

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag			DESCRIPTION
	Metres	Feet	Metres	Feet					
37739		280-281.5		1.5'	.036	.144			
740		281.5-284			.012	.002			
1		284-285.5			.008	.072			
2		285.5-287.5			.008	.032			
3		287.5-289			.040	.400			
4		289-291			.008	.002			
5		291-292.5			.036	.324			
6		292.5-295			.026	.114			
7		295-298			.032	.028			
8		298-300			.014	.026			
9		300-302.5			.046	.002			
750		302.5-305.5			.006	.002			
1		305.5-307.5			.004	.002			
2		307.5-309.5			.006	.034			
3		309.5-311			.004	.002			
4		311-313			.008	.002			
5		313-316			.012	.002			
6		316-319			.014	.126			
7		319-321			.018	.122			
8		321-324			.004	.116			

TILlicum PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. 89-225

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	LxA	DESCRIPTION
	Metres	Feet	Metres	Feet					
37759		324-326			.008	.052			
760		326-328.5			.024	.196			
1		328.5-330.5			.020	.080			
2		330.5-333		2.5'	.058	.082		0.145	
3		333-336		3.0'	.046	.054		0.136	.073/6.0'
4		336-339		3.0'	.094	.106	.106	0.300	AVE: .100 Au
5		339-341		2.0'	.062	.196		0.124	
6		341-343.5		2.5'	.034	.226		0.085	
7		343.5-346		2.5'	.050	.230		0.125	
8		346-348.5		2.5'	.010	.130		0.025	
9		348.5-350		1.5'	.022	.238		0.033	
770		350-353		3.0'	.118	.442	.124	0.363	AVE: .121 Au
1		353-356		3.0'	.062	.218	.062	0.186	0.092/6.0' "A1 ZONE"
2		356-359		3.0'	.046	.134		0.138	(TW=5.9')
3		359-361		2.0'	.066	.454		0.132	
4		361-363		2.0'	.038	.222		0.076	
5		363-366		3.0'	.082	.458		0.246	
6		366-369			.012	.002			
7		369-372			.024	.002			
8		372-375			.016	.164			

TILlicum M.W. PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-226

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37783		73-75.5			.004	.056		
4		75.5-78.5			.002	.098		
5		140- 142.5			.006	.094		
6		142.5- 145			.002	.002	.009	
7		166.5- 169			.002	.002		
8		169- 172			.002	.002		
9		172- 175			.002	.002		
90		175- 178			.002	.002		
1		178- 181			.002	.002		
2		181- 183			.004	.002		
3		183- 185			.008	.092		
4		185- 187			.008	.092		
5		187- 189			.004	.036		
6		189- 192			.010	.130		
7		192- 195			.004	.002		
8		195- 198			.006	.002		
9		198- 200.5			.004	.036		
800		200.5- 202.5			.002	.002		
1		202.5- 204.5			.002	.002		
2		204.5- 207			.004	.216		

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-226

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au		DESCRIPTION
	Metres	Feet	Metres	Feet					
37803		207 - 209.5			.004	.002			
4		209.5 - 212.5			.006	.094			
5		212.5 - 215.5			.006	.094			
6		215.5 - 217			.004	.036			
7		217 - 220			.006	.014			
8		220 - 223			.008	.112			
9		223 - 226			.004	.176			
10		226 - 229			.004	.056			
1		229 - 232			.006	.134			
2		232 - 235			.002	.058			
3		235 - 238			.006	.002	.005		
4		238 - 241			.008	.012			
5		241 - 244			.006	.054			
6		244 - 247			.008	.002			
7		247 - 250			.014	.086			
8		250 - 253			.012	.002			
9		253 - 256			.012	.008			
20		256 - 258.5			.004	.116			
1		258.5 - 262			.004	.056			
2		262 - 265			.006	.194			

TILlicum MEV PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-226

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	DESCRIPTION
	Metres	Feet	Metres	Feet			
37823		265- 268			.004	.016	
4		268- 271			.012	.002	
5		271- 274			.006	.094	
6		274- 276			.006	.074	
7		276- 277.5			.010	.330	
8		277.5- 280			.012	.126	
9		280- 282			.010	.210	
30		282- 284			.010	.330	
1		284- 286			.014	.306	
2		286- 288			.008	.492	
3		288- 290			.008	.392	
4		290- 293			.014	.106	
5		293- 295.5			.016	.188	
6		295.5- 298			.018	.122	
7		298- 301			.012	.108	
8		301- 304			.010	.110	
9		304- 307			.006	.114	
40		307- 310			.012	.148	
1		310- 313			.014	.186	
2		313- 316			.006	.194	

TILlicum M-U PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-226

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/l	oz/l	MINEN	AVE:	DESCRIPTION
	Metres	Feet	Metres	Feet	Au	Ag	Au	Au	
37843		316 - 319			.048	.112			
4		319 - 322			.004	.096			
5		322 - 325			.004	.002			
6		325 - 327			.010	.130			
7		327 - 329		2.0	.040	.060	.034	.037	.023/5.0' (TW=4.9') "A ZONE"
8		329 - 332		3.0	.014	.086	.012	.013	
9		332 - 335			.012	.048			
50		335 - 338			.008	.002			
1		338 - 341			.020	.002			
2		341 - 344			.014	.006			
3		344 - 347			.006	.214			
4		347 - 350			.014	.186			
5		350 - 353			.012	.128			
6		353 - 356			.002	.018			
7		356 - 359			.010	.070			
8		359 - 362			.006	.014			
9		362 - 364.5			.004	.136			
60		364.5 - 366.5		2.0	.016	.584			
1		366.5 - 368		1.5	.038	.842			
2		368 - 371		3.0	.010	.110			

TILlicum PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-226

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		ozt Au	ozt Ag	MINEN Au	LXA	DESCRIPTION
	Metres	Feet	Metres	Feet					
37863		371 - 374			.006	.094			
4		374 - 377			.014	.166			
5		377 - 380			.016	.064			
6		380 - 383			.006	.034			
7		383 - 385.5			.014	.026			
8		385.5 - 387			.016	.044			
9		387 - 388			.022	.438			
70		388 - 390			.020	.180			
1		390 - 393			.010	.002			
2		393 - 396		3.0'	.154	.486	.110	.396	AVE: .132 Au .132/3' 0.071/
3		396 - 399		3.0	.012	.188	.006	.027	AVE: .009 Au "A1 ZONE" /6.0'
4		399 - 402			.008	.052			(T.W. = 5.8')
5		402 - 404.5			.008	.072			
6		404.5 - 407			.006	.094			
7		407 - 410			.004	.002			
8		418 - 421			.010	.050			
9		428 - 429.5			.002	.002			
80		429.5 - 432.5			.002	.002			
1		432.5 - 435.5			.002	.002			
2		435.5 - 438.5			.002	.002			

TILlicum PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. 89-227

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		g/t Au	g/t Ag	DESCRIPTION
	Metres	Feet	Metres	Feet			
37885			95.5-97		.002	.058	
6			180-183		.002	.058	
7			183-185.5		.002	.018	
8			185.5-188		.002	.038	
9			188-191		.002	.002	
890			191-194		.004	.002	
1			194-197		.002	.298	
2			197-199.5		.002	.038	
3			199.5-202		.002	.002	
4			202-204		.016	.064	
5			204-206.5		.012	.048	
6			206.5-209		.002	.098	
7			209-212		.014	.026	
8			212-215		.016	.224	
9			215-218		.002	.038	
900			218-221		.004	.156	
1			221-224		.004	.056	
2			224-226		.006	.074	
3			226-228		.002	.178	
4			228-230		.006	.014	

TILlicum M.V. PROPERTY

ESPERANZA EXPLORATIONS LTD.

DDH No. 89-227

ZONE

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		6217 Au	0217 Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37905			228-232		.008	.012		
6			232-235		.026	.174		
7			235-238		.014	.006		
8			238-241		.026	.094		
9			241-244		.006	.002	.020	
910			244-246.5		.012	.002		
1			246.5-249		.008	.212		
2			249-251.5		.012	.028		
3			251.5-254		.004	.076		
4			254-257		.002	.098		
5			257-260		.002	.002		
6			260-263		.006	.002		
7			263-266		.004	.056		
8			266-268.5		.004	.056		
9			268.5-271		.002	.002		
920			271-274		.002	.018		
1			274-276.5		.002	.002		
2			276.5-279		.002	.002		
3			279-280		.002	.002		
4			280-282.5		.002	.002		

TILlicum M.U. PROPERTY

Page No. 3

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. 89-227

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINER Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
37925			282.5 -					
			285.5		.002	.002		
6			285.5 -					
			289		.008	.002		
7			289-292		.002	.002		
8			292-295		.002	.058		
9			295-297		.004	.002		
930			297-299		.002	.002		
1			299-302		.002	.002		
2			302-305		.004	.136		
3			305-308		.002	.118	.001	
4			308-311		.002	.018		
5			311-313		.002	.002		
6			313-316		.002	.018		
7			316-319		.004	.016		
8			319-322.5		.002	.002		
9			322.5 -					
			324.5		.004	.002		
940			324.5 -					
			327		.002	.158		
1			327-330		.006	.274		
2			330-333		.002	.038		
3			333-336		.002	.072		
4			336-339		.002	.002		

TILlicum PROPERTY

ESPERANZA EXPLORATIONS LTD.

DDH No. 89-227

ZONE

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	LxA	DESCRIPTION
	Metres	Feet	Metres	Feet					
37945			339-342		.002	.038			
6			342-344.5		.004	.096			
7			344.5-347.5		.004	.276			
8			347.5-351		.002	.002			
9			351-354		.002	.002			
950			354-357		.002	.002			
1			357-360		.002	.002			
2			360-363		.002	.002			
3			363-366		.002	.002			
4			366-368		.004	.002			
5			368-369.5		.008	.372			
6			369.5-371		.012	.328			
7		2.0'	371-373		.226	.994	.208	0.434	0.139/
8		2.0'	373-375		.052	.568	.071	0.123	1/4' / 6'(TW=5.8') "B ZONE"
9		2.0'	375-377		.028	.212	.037	0.065	
960			377-380		.028	.192			
1			380-383		.026	.114			
2			383-386		.036	.304			
3			386-389		.042	.198			
4			389-391		.018	.082			

TILlicom P.M.N PROPERTY

ESPERANZA EXPLORATIONS LTD.

DDH No. 89-227

ZONE

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL Metres	SAMPLE INTERVAL Feet	SAMPLE LENGTH Metres	SAMPLE LENGTH Feet	oz/t Au	oz/t Ag	MINEN Au	LxA	DESCRIPTION
37965			391-394		.016	.224			
6			394-397		.018	.142			
7			397-400		.026	.234			
8			400-402		.044	.116			
9			402-405		.036	.284			
970			405-408		.030	.190			
1	2.5		408-410.5		.038	.162	.023	.076	
2	2.5'		410.5-413		.108	.332	.090	0.248	.072/5.0' (TW=4.8') "A ZONE"
3	2.5'		413-415.5		.050	.270	.039	0.111	
4	2.0		415.5-417.5		.028	.992	.026	0.054	
5	2.0		417.5-419.5		.088	.572	.100	0.188	
6	2.0		419.5-421.5		.044	.336	.028	.072	
7	1.5		421.5-423		.034	.106	.029	.047	
8	1.0		423-424		.134	.106	.148	.141	"VG" .117/ .074/23.5'
9	2.0		424-426		.108	.232	.103	.211	.3.0' .092/11.0'
980	3.0		426-429		.042	.002	.047	.134	
1	3.0		429-432		.052	.288	.060	.168	.106/5.0'
2	2.0		432-434		.166	.834	.197	.363	(TW=4.8') "A1 ZONE"
3	2.0		434-436		.058	.262	.075	.133	
4			450-451.5		.004	.016			

TILlicum M.N PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-228

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	DESCRIPTION
	Metres	Feet	Metres	Feet			
37998		203- 206			.006	.614	
9		208- 211			.002	.002	
38000		211- 213.5			.002	.002	
1		220- 222			.002	.002	
2		222- 224.5			.002	.002	
3		228.5- 231			.002	.002	
4		231- 233			.002	.002	
5		236- 239			.010	.090	
6		239- 242			.002	.002	
7		242- 245			.002	.018	
8		245- 248			.004	.056	
9		248- 251			.002	.002	
10		251- 253			.006	.134	
1		253- 255			.004	.002	
2		261.5- 264			.002	.002	
3		264- 266			.002	.098	
4		266- 268			.002	.002	
5		268- 269.5			.002	.018	
6		269.5- 271			.002	.002	
7		271- 273			.002	.018	

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-228

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/T Au	oz/T Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
38018		273- 276			.002	.002		
9		276- 279			.002	.002		
20		279- 282			.002	.002		
1		282- 285			.004	.152		
2		285- 288			.006	.054		
3		288- 291			.004	.076		
4		291- 294			.002	.002		
5		294- 297			.002	.002		
6		297- 300			.006	.154		
7		300- 303			.002	.002	.001	
8		303- 305.5			.004	.276		
9		305.5- 308			.004	.076		
30		308- 311			.002	.002		
1		311- 314			.004	.056		
2		314- 317			.006	.074		
3		317- 320			.006	.002		
4		320- 323			.004	.002		
5		323- 326			.004	.056		
6		326- 329			.002	.002		
7		329- 332			.004	.136		

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-228

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINEN Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
38038		332- 335			.006	.054		
9		335- 338			.006	.194		
40		338- 341			.004	.036		
1		341- 343.5			.002	.078	.003	
2		343.5- 346.5			.004	.016		
3		346.5- 349.5			.006	.054		
4		349.5- 351.5			.004	.096		
5		351.5- 353.5			.002	.018		
6		353.5- 356			.004	.116		
7		356- 359			.004	.096		
8		359- 362			.002	.258		
9		362- 365			.006	.554		
50		365- 368			.002	.358		
1		368- 371			.002	.218		
2		371- 374			.006	.874		
3		374- 377			.002	.198		
4		377- 380			.004	.116		
5		380- 383			.002	.278		
6		383- 386			.004	.176		
7		386- 388.5			.004	.216		

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-228

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/t Au	oz/t Ag	MINER Au	DESCRIPTION
	Metres	Feet	Metres	Feet				
38058		388.5 - 391			.004	.316		
9		391 - 394			.006	.194		
60		394 - 397			.002	.002		
1		397 - 400.5			.002	.002		
2		400.5 - 403.5			.042	.002		
3		403.5 - 406.5			.080	.002		
4		406.5 - 409.5			.010	.002		
5		409.5 - 411.5			.010	.002		
6		411.5 - 413.5			.004	.002		
7		413.5 - 415			.006	.054		
8		415 - 417			.004	.016		
9		417 - 418.5			.002	.118	.006	
70		418.5 - 420			.014	.126	.006	
1		420 - 422			.004	.056		
2		422 - 425			.002	.002		
3		425 - 428			.014	.066		
4		428 - 431			.016	.344		
5		431 - 434			.002	.002		
6		434 - 437			.040	.002		
7		437 - 439			.034	.002	.007	

TILlicum M.N PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E87-278

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		oz/l Au	oz/l Ag	MIN PPB Au	EN o.p.t. Au	LXA	DESCRIPTION
	Metres	Feet	Metres	Feet						
38078		439-441			.062	.002		.004		
9		441-443			.068	.152		.043		
80		443-446			.052	.002		.045		
1		446-449			.060	.002		.043		
2		449-451.5			.020	.080				
3		451.5-453			.046	.314				
4		453-455			.030	.030				
5		455-456.5		1.5	.048	.112				
6		456.5-459		2.5	.028	.032				
7		459-462		3.0			970	.029		.069 / "A ZONE"
8		462-464.5		2.5			3500	.117		5.5' (TW=5.1')
9		464.5-467		2.5			445			
90		467-469.5					880			
1		469.5-471.5					245			
2		471.5-474.5					250			
3		474.5-477					270			
4		477-480					385			
5		480-482.5		2.5			4500	.133	.333	
6		482.5-484		1.5			2650	.081	.122	.131 / 5.5' (TW=5.2) "A1 ZONE"
7		484-485.5		1.5			5800	.176	.264	

TILlicum F.N PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-229

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		MIN PPAu	EN O.P.T. Ag Au				DESCRIPTION
	Metres	Feet	Metres	Feet						
38113		206 - 209.5			5					
4		209.5 - 213			5					
5		213 - 215			10					
6		215 - 216.5			5					
7		216.5 - 218.5			5					
8		218.5 - 220.5			5					
9		220.5 - 223			5					
20		223 - 226			5					
1		226 - 229			5					
2		229 - 232			5					
3		232 - 234.5			5					
4		234.5 - 237			5					
5		237 - 240.5			5					
6		240.5 - 244			5					
7		244 - 247			45					
8		247 - 250			20					
9		250 - 253			35					
30		253 - 256			10					
1		256 - 259			5					
2		259 - 262			5					

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-229

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		MIN PPAu	EN O.P.T. Ag Au				DESCRIPTION
	Metres	Feet	Metres	Feet						
38133		262 - 265			5					
4		265 - 268			20					
5		268 - 271			30					
6		271 - 274			5					
7		274 - 276.5			5					
8		276.5 - 278			5					
9		278 - 279.5			5					
40		279.5 - 282			35					
1		282 - 284.5			10					
2		284.5 - 287			25					
3		287 - 290			30					
4		290 - 292.5			45					
5		292.5 - 295.5			60					
6		295.5 - 298			35					
7		298 - 300.5			10					
8		300.5 - 303			5					
9		303 - 306			20					
50		306 - 309			15					
1		309 - 312			35					
2		312 - 314			10					

TILlicum LN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-229

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		MIN FT Au	EN O.P.T. No Au				DESCRIPTION
	Metres	Feet	Metres	Feet						
38153		314 - 315.5			30					
4		315.5 - 318			80					
5		318 - 321			55					
6		321 - 324			50					
7		324 - 327			10					
8		327 - 329.5			20					
9		329.5 - 332.5			5					
60		332.5 - 335.5			10					
1		335.5 - 337			30					
2		337 - 338.5			120					
3		338.5 - 340			280					
4		340 - 342			130					
5		342 - 345			75					
6		345 - 347.5			100					
7		347.5 - 350.5			110					
8		350.5 - 352.5			65					
9		352.5 - 354			50					
70		354 - 357			5					
1		357 - 358.5			10					
2		358.5 - 360.5			5					

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-229

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		MIN PPA Au	EN P.P.T. TAG Au			DESCRIPTION
	Metres	Feet	Metres	Feet					
38173		360.5 - 363.5			40				
4		363.5 - 366			70				
5		366 - 369			40				
6		369 - 372			105				
7		372 - 375			110				
8		375 - 378			460				
9		378 - 381.5			80				
80		381.5 - 383.5			320				
1		383.5 - 385.5			240				
2		385.5 - 387.5			75				
3		387.5 - 389.5			140				
4		389.5 - 392			120				
5		392 - 395			120				
6		395 - 397			55				
7		397 - 398.5			60				
8		398.5 - 400.5			100				
9		400.5 - 403			70				
90		403 - 406			65				
1		406 - 408			310				
2		408 - 410			340				

TILlicum MIN PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-229

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		PPb Au	MIN Au	EN OPT Au	LXA	DESCRIPTION
	Metres	Feet	Metres	Feet					
38193		410 - 411.5			75				
4		411.5 - 413			295				
5		413 - 415			270				
6		415 - 416.5			670				
7		416.5 - 418			70				
8		418 - 420			1600	.047			
9		420 - 423			20				
200		423 - 426			65				
1		426 - 429			80				
2		429 - 432			75				
3		432 - 435			25				
4		435 - 438			120				
5		438 - 441			130				
6		441 - 445	4.0		1070	.030	.120	<div style="text-align: center;"> <p>"A ZONE"</p> </div>	
7		445 - 446.5	1.5		4500	.161	.242		
8		446.5 - 449	2.5		1000	.029	.073		
9		449 - 451	2.0		2000	.066	.132		
10		451 - 453	2.0		2000	.058	.116		
1		453 - 456	3.0		2200	.077	.231		
2		456 - 459	3.0		1170	.034	.102		

TILlicum M.N PROPERTY

ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-229

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		MIN Au	EW OPT Au	LXA	DESCRIPTION
	Metres	Feet	Metres	Feet				
38213		459 - 462		3.0	950	.028	.084	
4		462 - 465		3.0	375	.011	.033	
5		465 - 468		3.0	800	.023	.069	
6		468 - 470		2.0	540	.016	.032	
7		470 - 472.5		2.5	930	.027	.069	
8		482.5 - 485		2.5	4800	.164	.410	■ DYKE 478.5 - 482.5'
9		485 - 488		3.0	1200	.045	.135	"A1 ZONE"
20		488 - 491		3.0	10,000	.309	.927	0.421
1		491 - 493		2.0	15,000	.589	1.178	5.0'
2		493 - 496		3.0	1700	.052	.156	(TW = 4.8')
3		496 - 499		3.0	5200	.211	.633	.263
4		499 - 501.5		2.5	690	.020	.050	11.01
5		501.5 - 503.5		2.0	10,000	.344	.688	(TW = 10.5')
6		511 - 513		2.0	920	.027	.054	.234
7		513 - 514.5		1.5	25			15.5'
								.199
								21.0'

TILlicum MIN PROPERTY

EAST RIDGE ZONE

ESPERANZA EXPLORATIONS LTD.

DDH No. E89-230

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		MIN Au	EN Ag			DESCRIPTION
	Metres	Feet	Metres	Feet					
38228		76-78.5			5				
9		78.5-81			5				
30		146.5-149			10				
1		149-152			10				
2		239-241			40				
3		241-244			30				
4		244-247			20				
5		247-249			20				
6		249-252			10				
7		252-255.5			100				
8		255.5-258.5			50				
9		363-366			80				
40		366-367.5			270				
1		367.5-369			220				
2		369-371			250				
3		371-374			30				
4		374-377			35				
5		377-380			300				
6		380-381			500				
7		381-383.5			30				

TILlicum MIN PROPERTY

ZONE

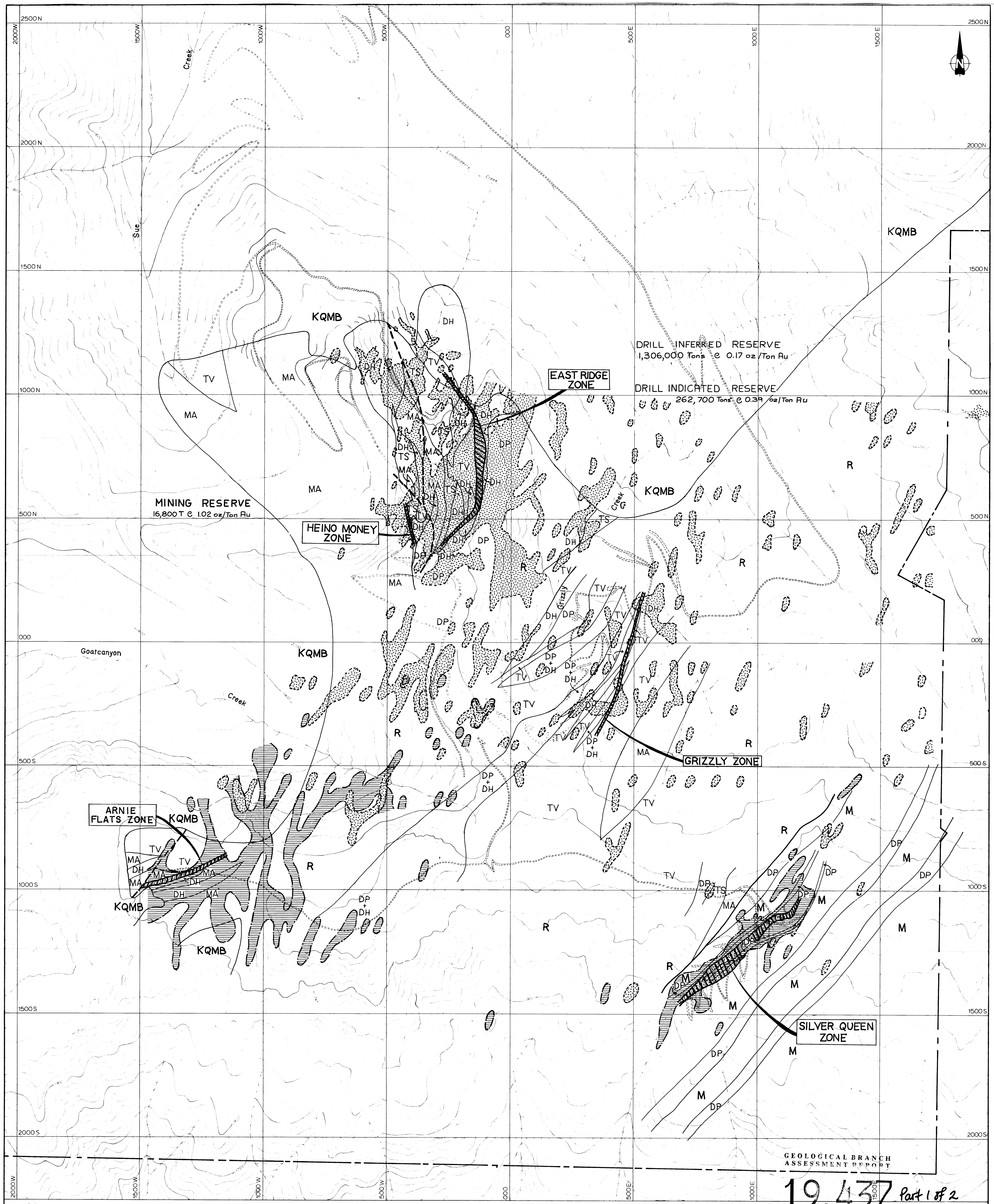
ESPERANZA EXPLORATIONS LTD.

DDH No. EB9-230

DIAMOND DRILL LEDGER

ASSAY TAG No.	SAMPLE INTERVAL		SAMPLE LENGTH		MIN PPB Au	EN. P.T. O.P.G. Au	LXA	DESCRIPTION
	Metres	Feet	Metres	Feet				
38248		383.5 - 386.5			90			
9		386.5 - 389.5			75			
50		389.5 - 391.5			80			
1		401 - 402.5			60			
2		402.5 - 406			130			
3		406 - 408			190			
4		408 - 410.5			100			
5		410.5 - 412.5			850			
6		412.5 - 415.5			90			
7		415.5 - 418.5			110			
8		418.5 - 420.5	2.0		3500	.117		
9		439 - 441			1000	.030		
60		441 - 442			2500	.072		
1		442 - 444			290			
2		454.5 - 456.5			620			
3		456.5 - 458.5	2.0		1200	.044	.088	
4		458.5 - 460.5	2.0		1800	.052	.104	.066
5		460.5 - 462.5	2.0		1900	.063	.126	.076 / 10.5'
6		462.5 - 464.5	2.0		2200	.084	.168	6.5' "A ZONE"
7		464.5 - 467	2.5		2600	.081	.203	(TW = 6.4')

← interval 420.5 - 439' sampled, see next page



MINING RESERVE
16,800 T @ 1.02 oz/Ton Au

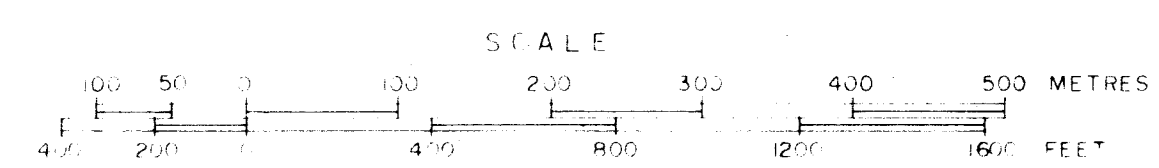
DRILL INFERRED RESERVE
1,306,000 Tons @ 0.17 oz/Ton Au

DRILL INDICATED RESERVE
262,700 Tons @ 0.39 oz/Ton Au

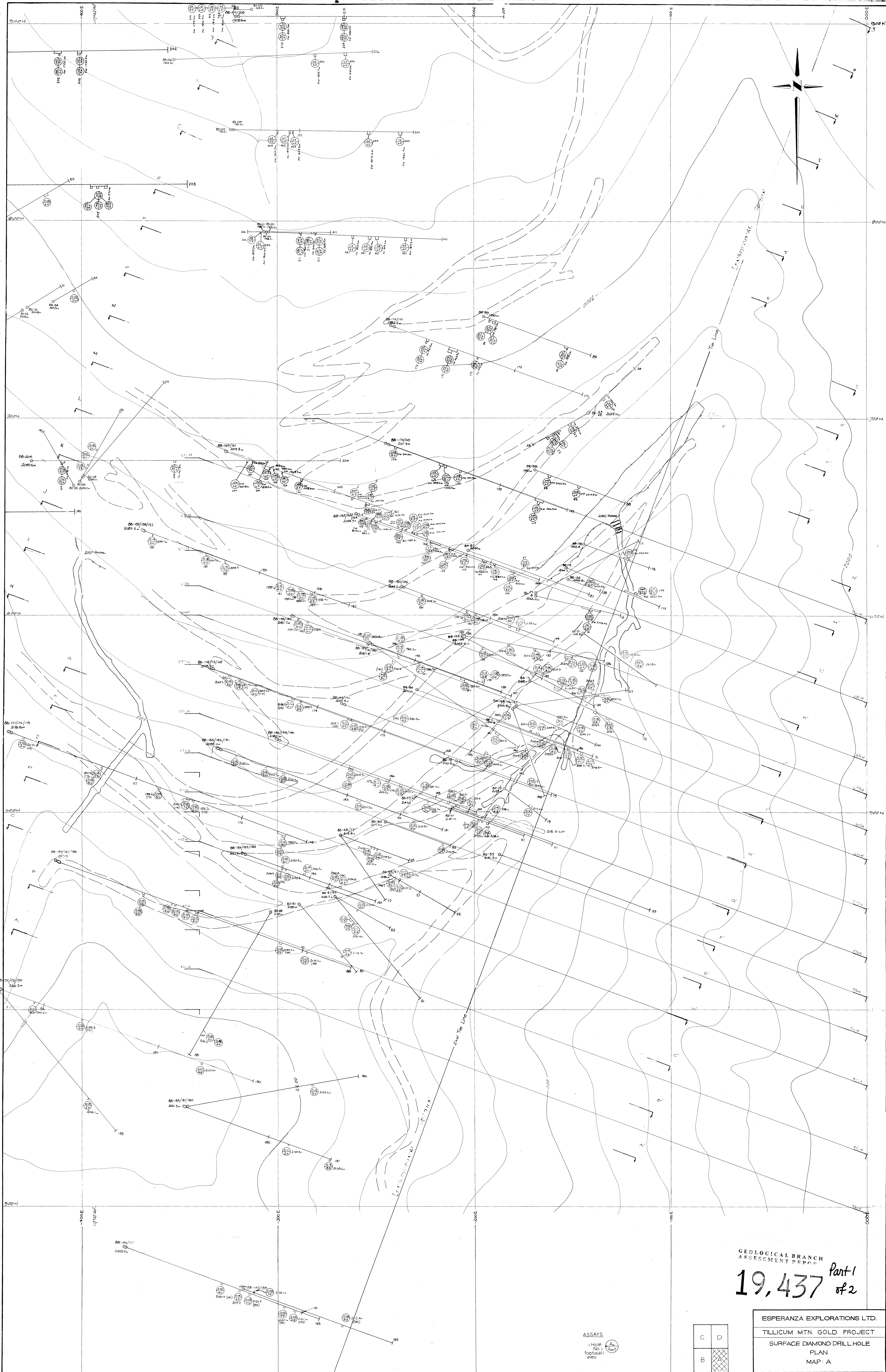
19,437 Part 1 of 2

LEGEND:

KQMB	GOAT CANYON-HALIFAX CREEK STOCKS		GOLD GEOCHEMICAL ANOMALIES (+50 ppb)
DH	DIORITE HYBRID		SILVER GEOCHEMICAL ANOMALIES (+5 ppm)
DP	DIORITE PORPHYRY		GEOLOGICAL CONTACT
R	ROSSLAND GROUP, UNDIVIDED		FAULT
TS	TUFFACEOUS SHALE		EXISTING ROADS
TV	TUFFACEOUS BASALTIC-ANDESITE		CLAIM BOUNDARY
MA	META-BASALTIC-ANDESITE		
M	MILFORD GROUP, UNDIVIDED		



ESPERANZA EXPLORATIONS LTD.		
TILlicum GOLD PROPERTY		
COMPILATION GEOLOGY, GEOCHEMISTRY & ROADS		
NTS: 82 F/13	SCALE: 1:5000	PLATE: 3
DATE: SEPT, 1989	DRAWN: BDD	



GEOLOGICAL BRANCH
ASSESSMENT REPORT
19,437 Part 1
of 2

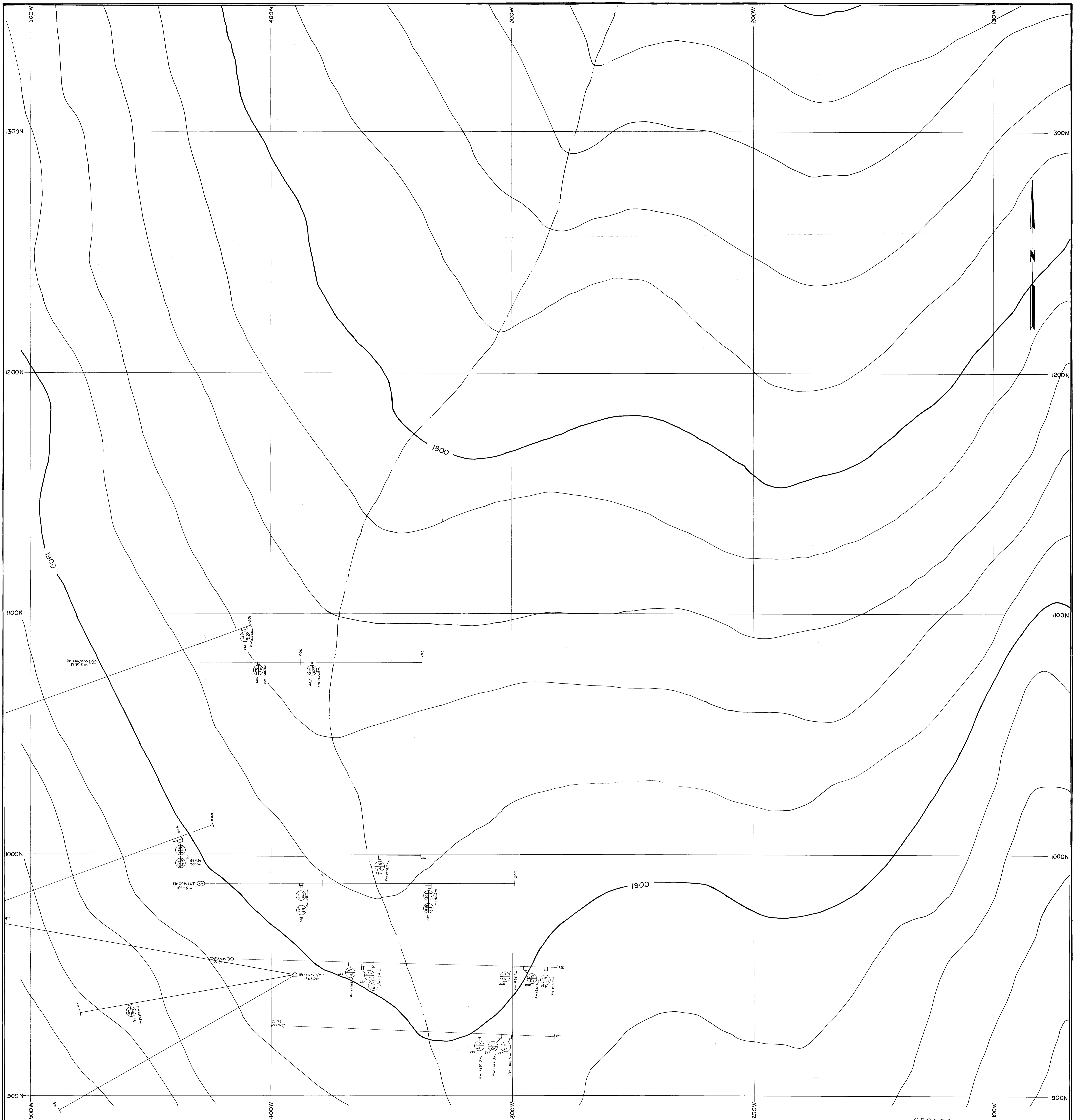
ESPERANZA EXPLORATIONS LTD.
TILlicum Mtn. Gold Project
SURFACE DIAMOND DRILL HOLE
PLAN
MAP: A

ASSAYS
 (Hole No.)
 (Footwall elev.)

C	D
B	A

MAP INDEX

Scale: 1:500 Date: August, 88
 Author: J. D. ...
 Title: ...



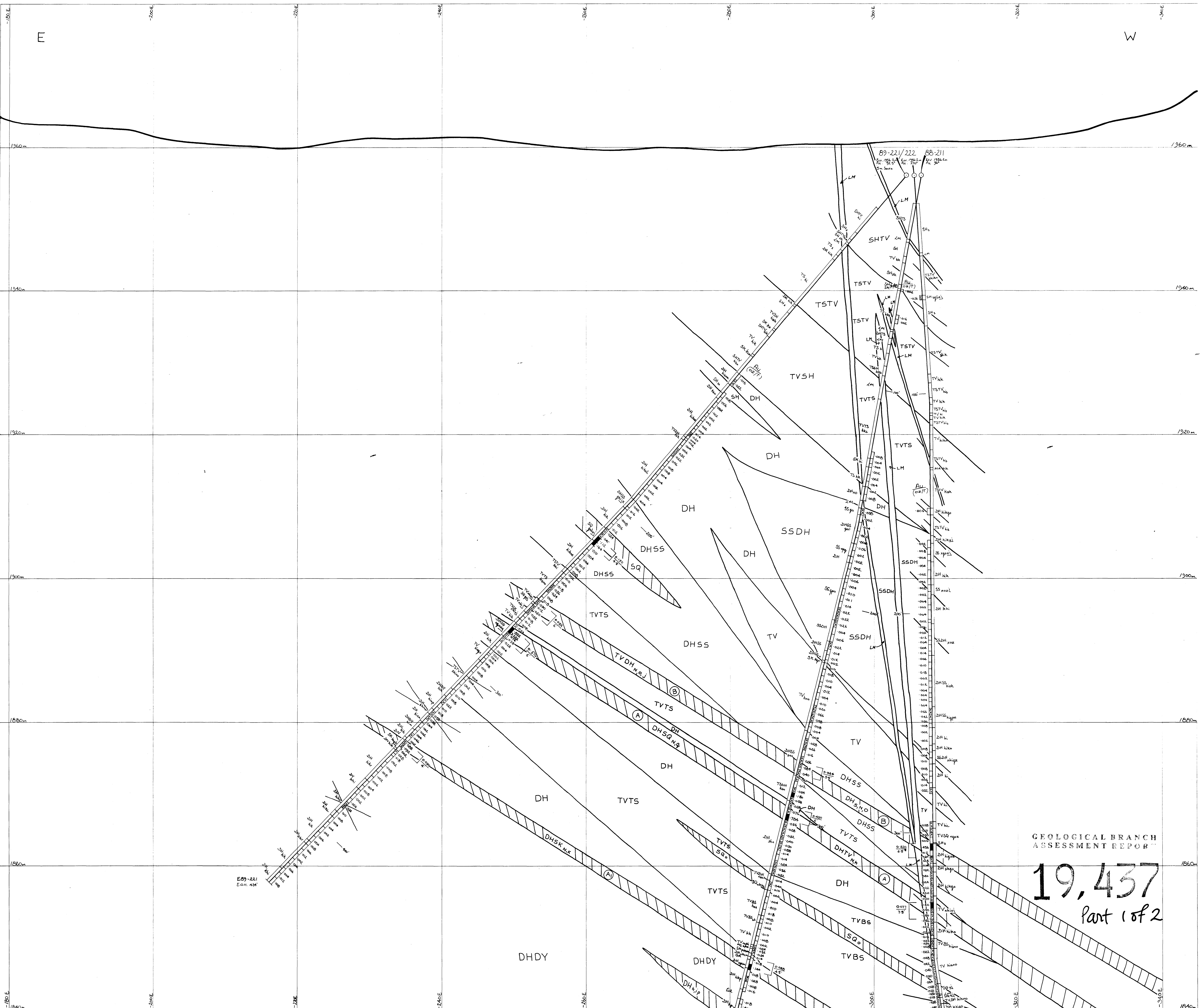
GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,437 ^{Part 1} #2

ESPERANZA EXPLORATIONS LTD.	
TILlicum MTN. GOLD PROJECT	
SURFACE DIAMOND DRILL HOLE PLAN	
MAP: D	
Scale: 1:500	Date: MAR 20 85
Revised:	By: Dave T.D.
	Page 19

C	D
B	A

ASSAYS
(Hole No.)
Top wall
Clk



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,437
Part 1 of 2

LITHOLOGY

- LM - LAMPORPHYRE DYKE
- AL - ALKALITE
- OR - ORANGE/SCHIST/GIANT QUARTZ MONZONITE
- DR - DIORITE
- SK - SKARN/MASSIVE/SILICIFIED SKARN
- MS - MASSIVE/SILICIFIED/SKARN/SILPHENITE
- DI - DIORITE HYBRID PORPHYRY SKARN
- DH - DIORITE HYBRID (CAL-SILICATE)
- DP - DIORITE PORPHYRY

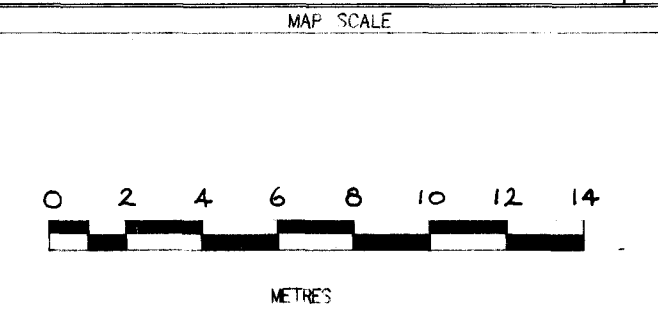
- SS - SEMI-CRYSTALLINE
- SC - SCLEROTIC
- TS - TUFFACEOUS SANDSTONE
- SH - SHALE
- SK - SKARN
- MS - MASSIVE/SILICIFIED/SKARN/SILPHENITE
- DI - DIORITE HYBRID (CAL-SILICATE)
- DP - DIORITE PORPHYRY
- LN - LAMPORPHYRE DYKE
- AL - ALKALITE
- OR - ORANGE/SCHIST/GIANT QUARTZ MONZONITE
- DR - DIORITE
- SK - SKARN/MASSIVE/SILICIFIED SKARN
- MS - MASSIVE/SILICIFIED/SKARN/SILPHENITE
- DI - DIORITE HYBRID PORPHYRY SKARN
- DH - DIORITE HYBRID (CAL-SILICATE)
- DP - DIORITE PORPHYRY

MODIFIERS

- A - ACTINOLITE
- B - BUSTITE
- C - CALSITE
- D - DIORITE
- E - EPIDOTE
- F - FALGOUTITE
- G - GARNET
- H - HORNBLAND
- I - ILVAITE
- J - JASPER
- K - KAPNITE
- L - LAMPORPHYRE
- M - MANTLE
- N - NAGASHIROMITE
- O - ORE
- P - PLAGIOCLASE
- Q - QUARTZ
- R - RHYOLITE
- S - SYENITE
- T - TUFF
- U - URANITE
- V - VERMICULITE
- W - WOLFRAMITE
- X - XENOTIME
- Y - YENITE
- Z - ZEPHYRINE

- TS - TUFFACEOUS SANDSTONE
- SH - SHALE
- SK - SKARN
- MS - MASSIVE/SILICIFIED/SKARN/SILPHENITE
- DI - DIORITE HYBRID (CAL-SILICATE)
- DP - DIORITE PORPHYRY
- LN - LAMPORPHYRE DYKE
- AL - ALKALITE
- OR - ORANGE/SCHIST/GIANT QUARTZ MONZONITE
- DR - DIORITE
- SK - SKARN/MASSIVE/SILICIFIED SKARN
- MS - MASSIVE/SILICIFIED/SKARN/SILPHENITE
- DI - DIORITE HYBRID PORPHYRY SKARN
- DH - DIORITE HYBRID (CAL-SILICATE)
- DP - DIORITE PORPHYRY

Assays
Feet



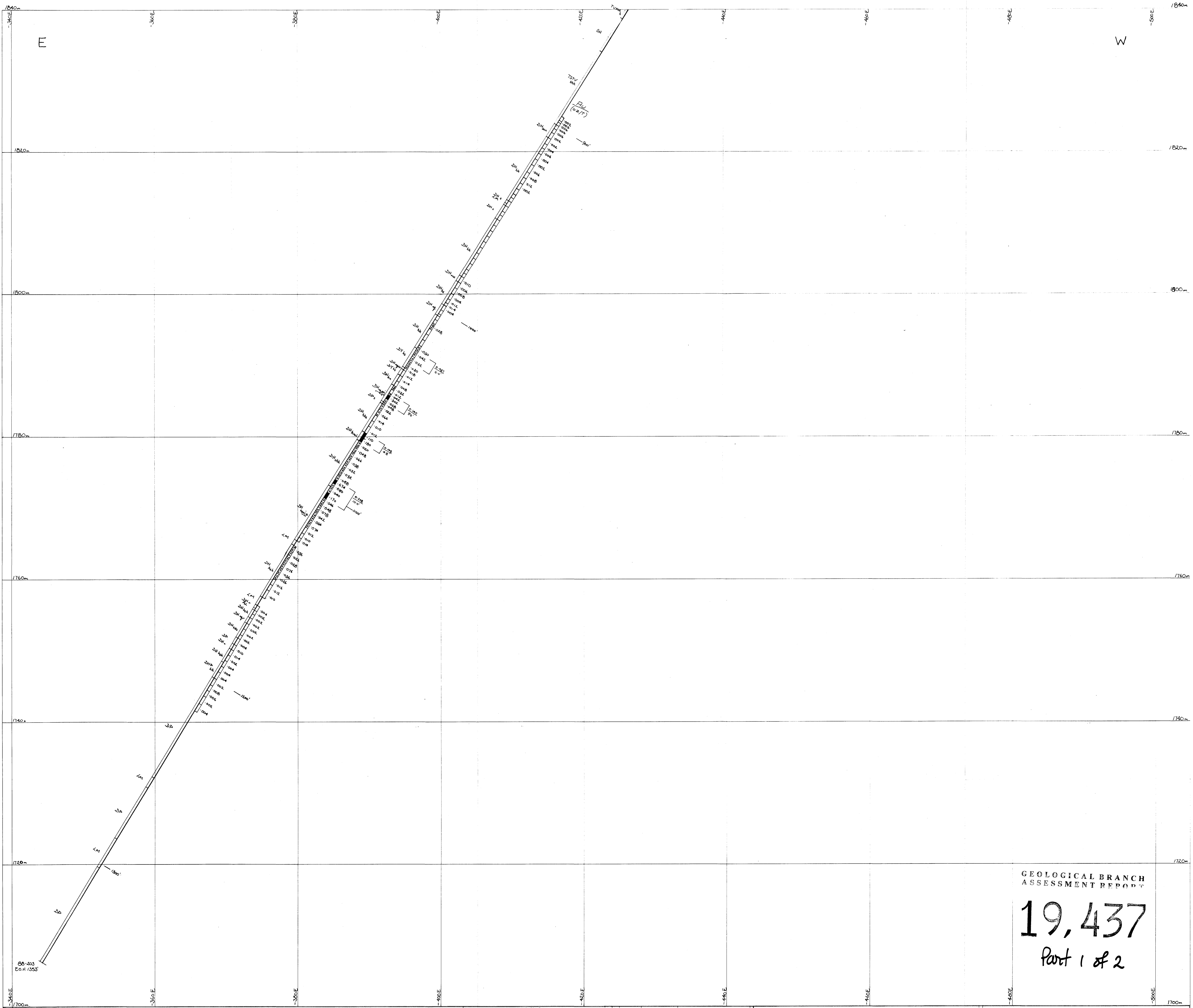
NO.	DATE	MADE BY	DESCRIPTION
1			
2			
3			
4			
5			

DATE: 01/08/05
DRAWN BY: [Signature]
CHECKED: [Signature]
APPROVED: [Signature]

SECTION 800N UPPER (-180E TO -340E)
GEOLOGY AND ASSAYS
SECTION AZIMUTH 90°
EAST RIDGE DEPOSIT

ESPERANZA EXPLORATIONS LTD.
TILlicUM MOUNTAIN PROPERTY

MAP INDEX NUMBER: [Blank]
SCALE: 1:200
DRAWING NUMBER: 20



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,437

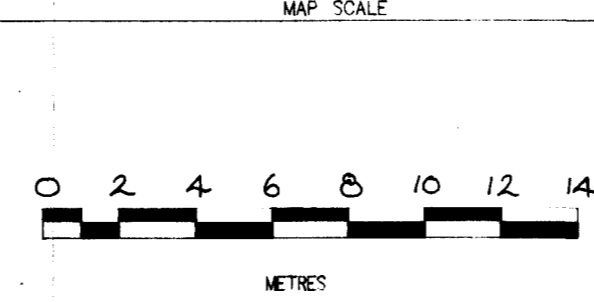
Part 1 of 2

LITHOLOGY

- LM - LAMPHORITE DYKES
- AL - ALKALITE
- GR - GRANODIORITE, GRANITE, QUARTZ MONZONITE
- DR - DORITE
- SK - SKARN, BANDS, SILICEOUS SKARN
- SC - SKARN, CALC-SILICATE SKARN
- MA - MASSIVE SILICEOUS SKARN
- HP - HYPOPHYRIC SKARN
- DP - DORITE HYBRID (CALC-SILICATE)
- DR - DORITE PORPHYRY
- SS - SERICITE SCHIST
- SC - SODIC SCHIST
- SH - SHIFTER SHALE
- GR - GRAY GRAPHIC SHALE
- AN - ANKONITE
- QU - QUARTZITE
- TC - TUFFACEOUS CRUSTAL TUFF
- TV - TUFFACEOUS VOLCANIC
- VE - VEGETAL BASALTIC ANDESITE
- VA - VEGETAL
- VI - VISIBILE GOLD

MODIFIERS

- A - ACTINOLITE
- B - BRONZITE
- CA - CALCITE
- VE - VERNERITE
- FA - FALGOUTE
- EP - EPIDOTE
- SK - SKARN
- SL - SILICATE
- TR - TRIPHYLITE
- PR - PYRRHOTITE
- FR - FERRUGINOUS
- QU - QUARTZ
- GA - GARNET
- SI - SILICIFIED
- MA - MANTLE
- FO - FOLIATED
- SC - SERICITE
- PO - PORPHYRY
- SH - SHALE



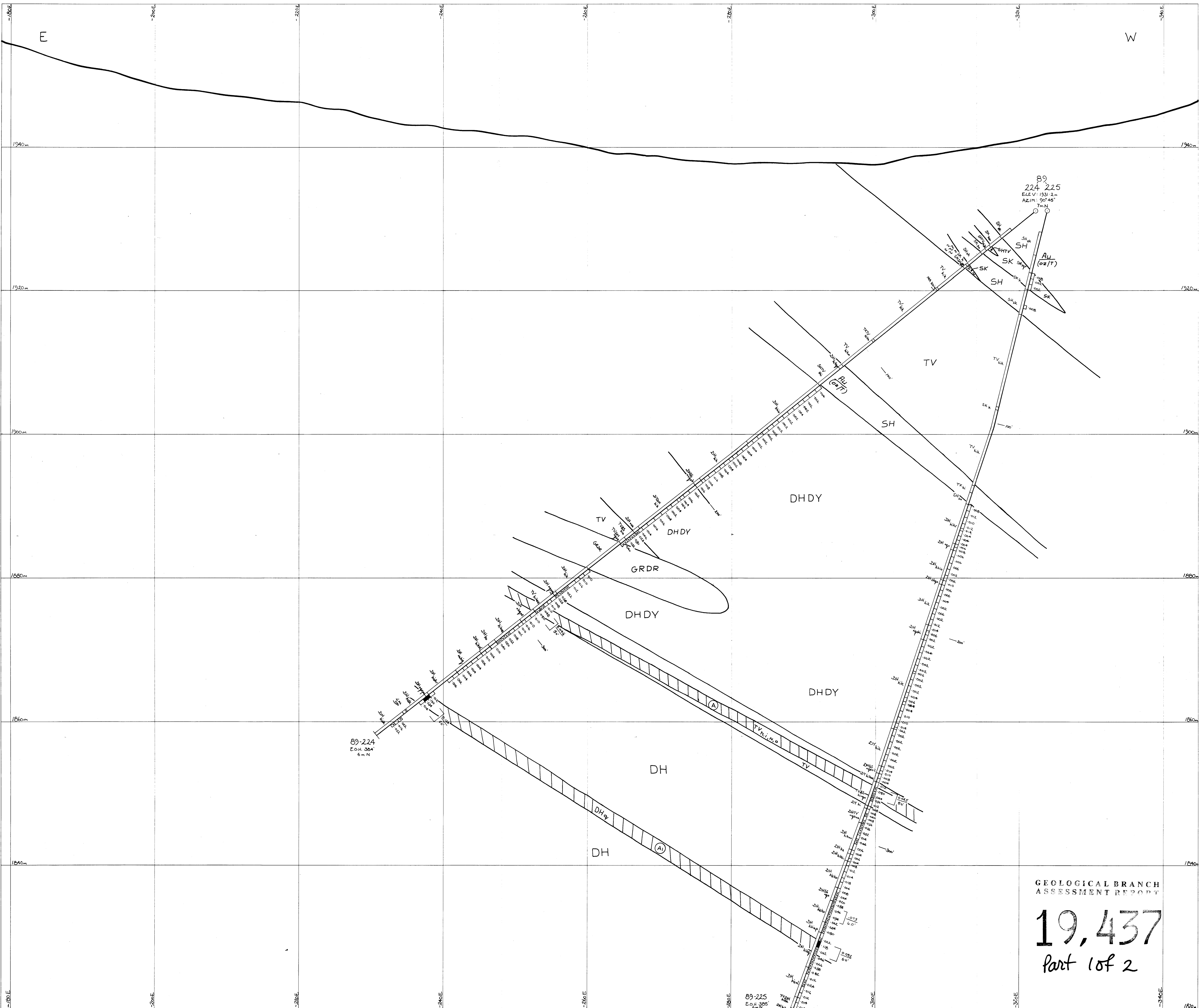
No.	DATE	MADE BY	DESCRIPTION
1			
2			
3			
4			
5			

DATE	DRAWN BY	CHECKED	APPROVED
02/08/09	[Signature]		

SECTION 820N LOWER (-340E TO -500E)
GEOLOGY AND ASSAYS
SECTION AZIMUTH 90°
EAST RIDGE DEPOSIT

ESPERANZA EXPLORATIONS LTD.
TILICUM MOUNTAIN PROPERTY

MAP INDEX NUMBER	SCALE	DRAWING NUMBER
	1:200	21



GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,437
Part 1 of 2

LITHOLOGY		MODIFIERS	
LM - LAMPONITE DYKES	SS - SERICITE SOFT	A - ACTINOLITE	H - HORNFELS
AL - ALABASTER	ST - STIBITE SOFT	B - BIFURCATED	I - IRONITE
GR - GRANODIORITE/GRAITE/QUARTZ MONZONITE	TS - TUFFACEOUS SHALE	C - CALCITE VENNIG	J - JAROSITE (TR)
DR - DORITE	SH - SLATE/SHALE	D - DARK YARN	K - KALINITE
SK - SKARN/BANDED/SILICIFIED SKARN	EP - EPIDOTE	E - EPIPLATE ALTERED	L - LALITE
SKAN - SKARN/BANDED/SILICIFIED SKARN	FL - FELDSPAR	F - FALGATE	M - MANGANESE
MS - MASSIVE SULPHIDES/POOR SULPHIDES	SC - SCLERITE	G - GARNET	N - NICKEL
HY - HYDRATED HYDROXYL SKARN	SHAL - SHALE	H - HORNBLAND	O - OSMIUM
DM - DORITE	TV - TUFFACEOUS VOLCANIC	I - IRON	P - PYRITE
SH - SERICITE HYDRATED (CALCITE/ULTRAM)	MA - META BASALTIC ANDERITE	J - JAROSITE	Q - QUARTZ VENNIG
PO - PORPHYRY	VE - VENNIG	K - KALINITE	R - GARNET

NO.	DATE	MADE BY	DESCRIPTION
1	09/08/89		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			

SECTION 840N (-180E TO -340E)
GEOLOGY AND ASSAYS
SECTION AZIMUTH 90°
EAST RIDGE DEPOSIT

ESPERANZA EXPLORATIONS LTD. TILlicum MOUNTAIN PROPERTY		
MAP INDEX NUMBER	SCALE	DRAWING NUMBER
	1:200	22