

LOG NO: 10-24	RD.
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FILE NO:	

**REPORT ON THE
 GEOLOGICAL AND GEOCHEMICAL SURVEY
 OF THE
 SPHALER EAST PROPERTY
 CLIFF 1 - 9 CLAIMS
 LIARD MINING DIVISION**

N.T.S. 104B/14W, 1046/3W
 Latitude: 57°01'N
 Longitude: 131°21'W

For:

BRAIDEN RESOURCES LTD.
 11th Floor, 808 West Hastings St
 Vancouver, B.C.
 V6C 2X6

By:

Duane R. Lucas, B.Sc., F.G.A.C.
Hi-Tec Resource Management Ltd.
 #1500 609 Granville St.
 Vancouver, B.C.
 V7Y 1G5
 October 10, 1990

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

20,346

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 VANCOUVER, B.C.



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1.0 INTRODUCTION

Commencing July 12, 1990 the writer with one assistant carried out a prospecting, mapping and sampling program on the Cliff 1 - 9 claims located in northwestern British Columbia (Figure 1). The purpose of the program was to follow up on recommendations made in the qualifying report prepared for Pezgold Resources (Awmack, June 1990), now known as Braiden Resources Ltd. Then, to assess the viability of the Cliff claims for future exploration. This was accomplished by:

1. Geological reconnaissance mapping (1:10,000 scale) and prospecting of areas in which interesting or anomalous mineralization had been discovered in previous years. As well, to map and prospect those areas, access permitting, which had not been covered previously.
2. Establishing contour soil lines along appropriate breaks in slope across zones of anomalous or distinctive mineralization.
3. Heavy mineral concentrate sampling (field-sieved) from all accessible drainages which cut the Cliff 1-9 claims.
4. Lithogeochemical sampling of interesting zones of mineralization and/or alteration.

To this purpose, a total of 21 rock chip samples, 81 contour soil samples, 11 heavy mineral concentrates (field-sieved) and 5 back-up stream sediment samples were collected. The program and report were completed for Braiden Resources Ltd., 11th Floor, 808 West Hastings Street, Vancouver, B.C..

1.1 Location and Access

The Cliff 1-9 claims are located within the Coast Range of northwestern British Columbia approximately 100 kilometers south-southwest of Telegraph Creek and 155 kilometers northwest of Stewart (Figure 1) and are centered on $57^{\circ} 01'$ North latitude and $131^{\circ} 21'$ West longitude.

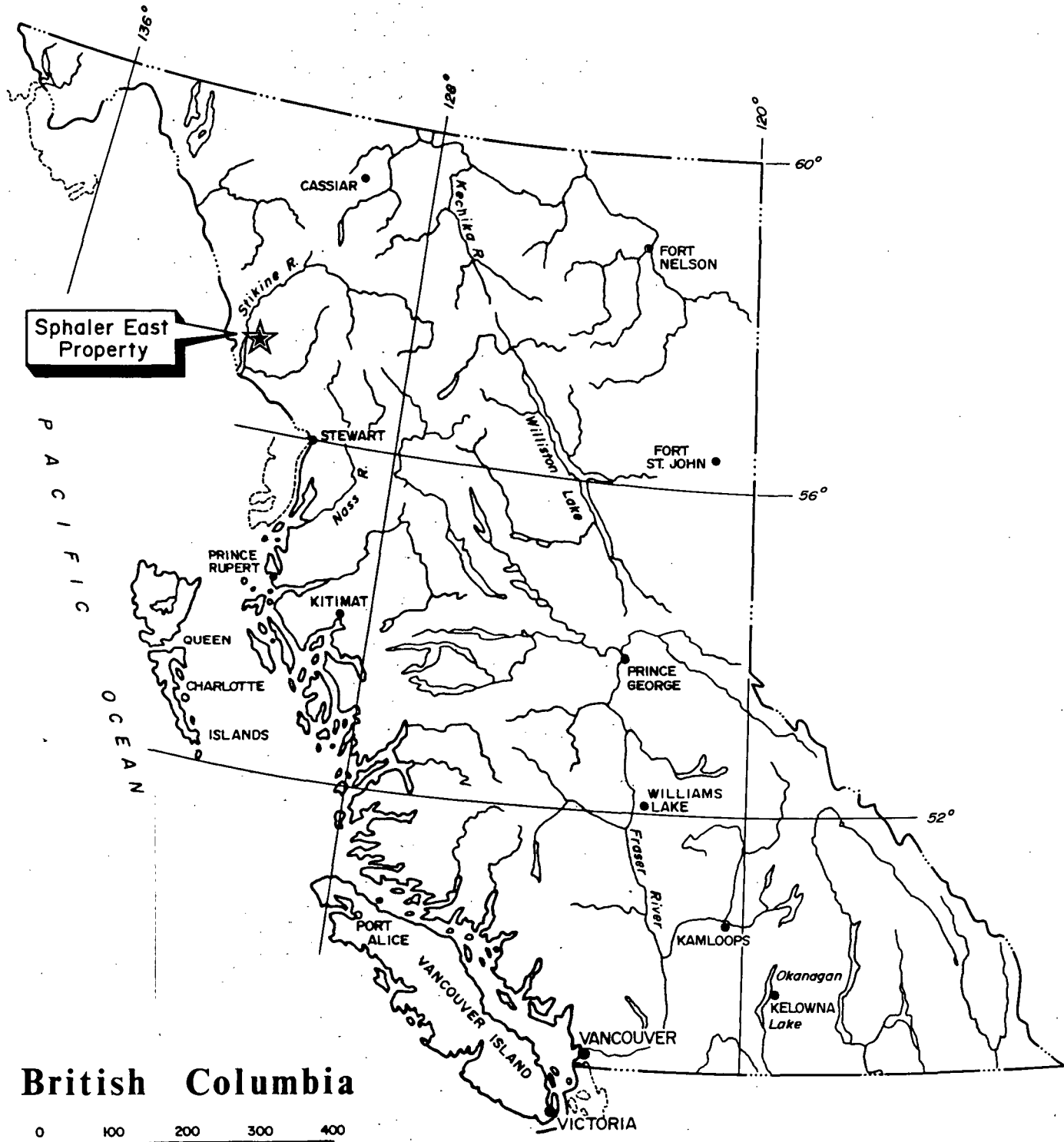
Access to the claims is available via light plane from Smithers, B.C. to the Porcupine airstrip, 360 kilometers to the northwest. From the sand and gravel airstrip at Porcupine, a short helicopter flight of 11 kilometers to the east brings one to the Cliff claims.

1.2 Claim Status

The Sphaler East property is composed of nine claims (Cliff 1 - 9) which cover 180 units for a total of 4500 hectares (Figure 2). The claims lie within the Liard Mining Division and are owned by Lacana Exploration Inc., an affiliate of Corona Corporation. The claims are now under option to Braiden Resources Ltd.


A possible discrepancy in the actual position of the claims and their plotted position on government maps was noted by H.J. Awmack in his qualifying report for Pezgold Resources Ltd. (June, 1990). An excerpt from his report is as follows:

"It should be noted that the Cliff 5, 6 and 9 claims have been incorrectly plotted on the government maps (Figure 2) with a 2400 metre north-south extent instead



British Columbia



BRAIDEN RESOURCES LTD.			
SPHALER EAST PROPERTY			
<i>General Location Map</i>			
 H-TEC RESOURCE MANAGEMENT LTD.	SCALE: as shown	N.T.S.: 104B/14W	FIGURE No: 1
	OWN. BY:	DATE: Oct. 1990	
	CHKD. BY:	PROJECT No: 90 BC025	FILE No:

of 2000 metres. If the legal corner posts are correctly plotted, this would result in a 300 metre gap between these claims and the Cliff 1, 2, 3, 4, 7 and 8."

Claim data is outlined in Table 2.2.1 below. The writer has not investigated the legal status of the claims or claim titles.

Table 1.2.1

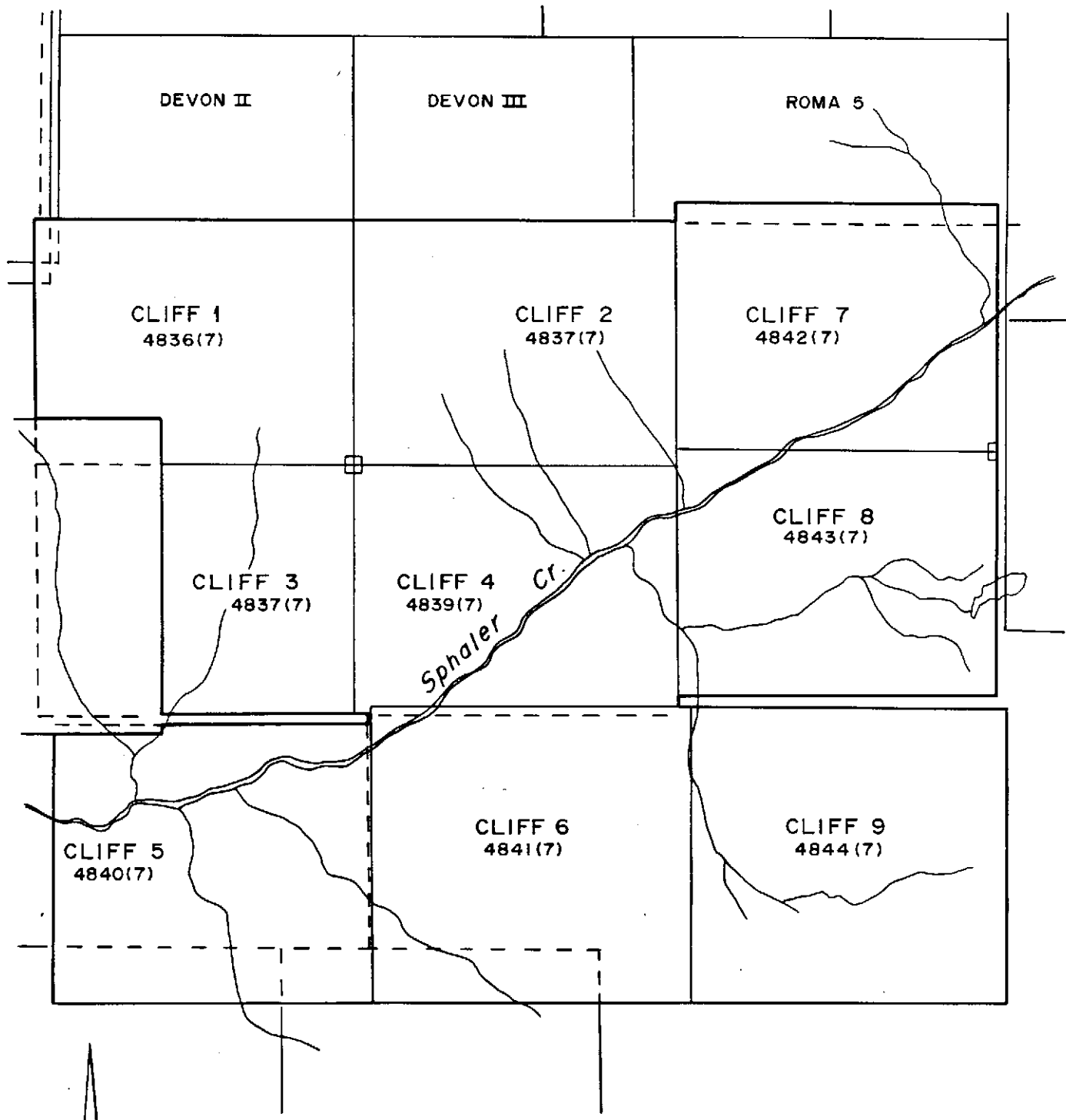
Sphaler East Property - List of Claims

<u>Claim Name</u>	<u>Record #</u>	<u>No.of Units</u>	<u>Record Date</u>	<u>Expiry Date</u> *
Cliff 1	4836	20	July 21, 1988	1991
Cliff 2	4837	20	July 21, 1988	1991
Cliff 3	4838	20	July 21, 1988	1991
Cliff 4	4839	20	July 21, 1988	1991
Cliff 5	4840	20	July 21, 1988	1991
Cliff 6	4841	20	July 21, 1988	1991
Cliff 7	4842	20	July 21, 1988	1991
Cliff 8	4843	20	July 21, 1988	1991
Cliff 9	4844	20	July 21, 1988	1991

* Upon acceptance of this assessment report.


1.3 Topography, Climate and Vegetation

The Sphaler East property occupies an area of steep, mountainous and glaciated terrain typical of the Coast Range Mountains. Flanking Sphaler Creek, the claims extend up steep to shear slopes with elevations ranging from 300m at creek bottom to 1980m on the northern flank and 1825m on the southern flank. Sphaler Creek itself runs northeast to southwest across the claims and follows an impassable gorge until it reaches a



BRAIDEN RESOURCES LTD.
SPHALER EAST PROPERTY

Claim Location Map

 HREC RESOURCE MANAGEMENT LTD.	SCALE: 1: 50,000	N.T.S.: 104B/14W	FIGURE No: 2
	DWN. BY:	DATE: Oct. 1990	FILE No:
	CHKD. BY:	PROJECT No: 90BC 025	

small flood plain on the western end of the property. A number of small creeks and waterfalls drain into Sphaler Creek, carrying runoff from glaciers which occupy high cirques along the northern and southern borders of the claims.

Situated in the "wet belt" of the Coast Range, the property receives an annual precipitation of 190 to 380 centimeters (Awmack, 1990). This is generally in the form of snow, except during the summer months. The lower slopes and flood plain are covered in thick stands of hemlock, spruce and fir with an undergrowth of alder, devil's club and huckleberry. Steeper sections are covered in slide alder and willow. The tree line is at the 1220m elevation on the southern slopes and 1370m elevation along the northern slopes. The higher elevations carry heather and alpine vegetation.

2.0 PREVIOUS HISTORY

The area around the Sphaler East property was first explored in the mid 1950's following the discovery of the Galore Creek copper - gold porphyry deposit in 1955. But more recently, it has seen a flurry of activity following a number of precious metal discoveries in close proximity to the Cliff claims.

Teck Corp. conducted a regional reconnaissance geochemical survey in the early 1980's which led to the Paydirt find located four kilometers northwest of the Cliff claims. This discovery defined 185,000 tonnes grading 4.11 grams of gold per tonne (Holtby 1985). As well, since 1986 several new finds such as the Gully Zone on the Trek property (adjoining Cliff 7 and 8 to

the east) and the Deluxe Zone on the Wiser property which ajoins the Cliff claims in the west, have stimulated even greater activity.

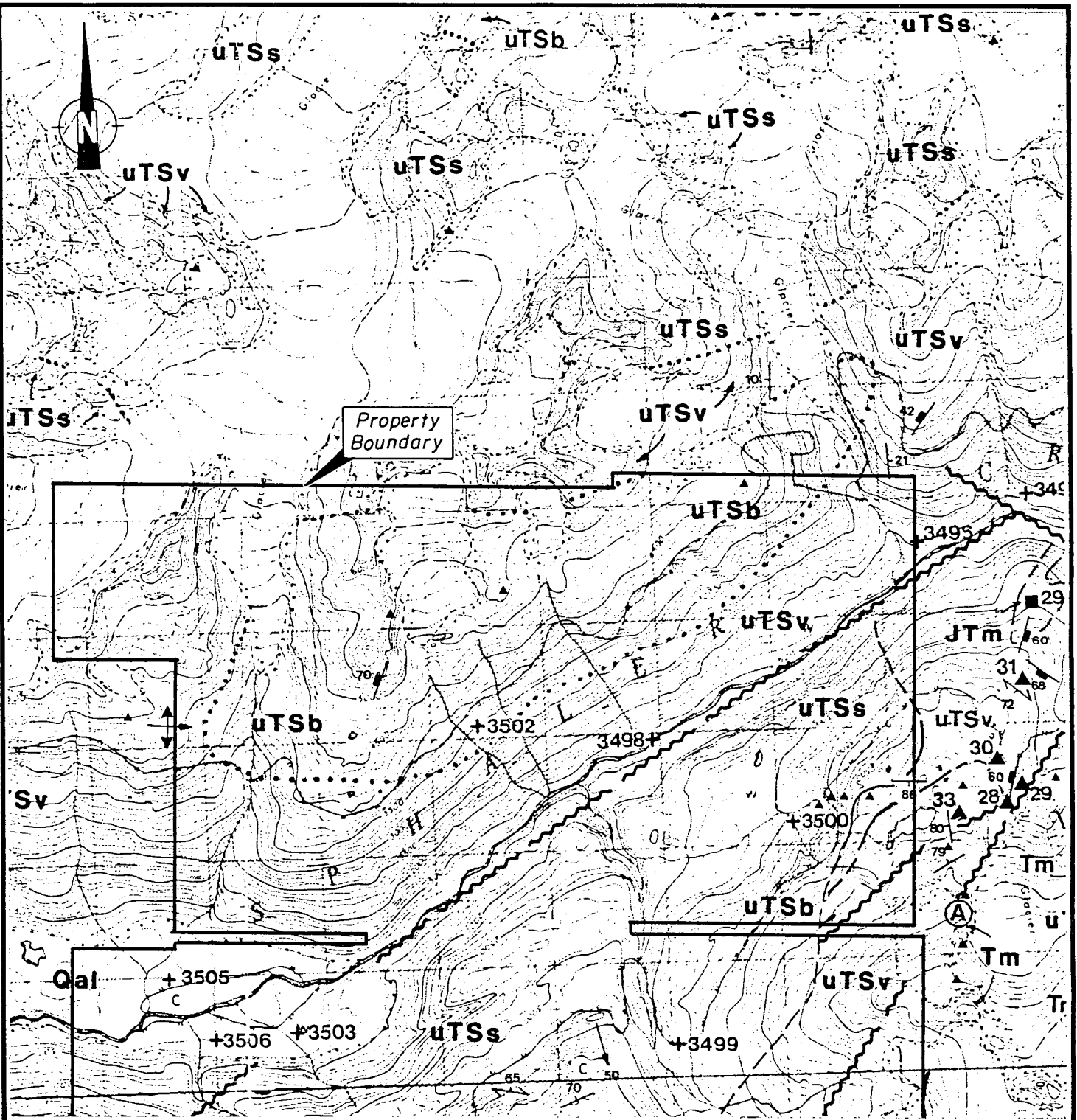
The Cliff 1 - 9 claims were staked in July, 1988. Prospecting and sampling programs were carried out by Corona Corporation in 1988 with follow-up work in 1989 (Jones, 1989a, 1989b). Initial results from these two programs uncovered some anomalous base metal results, but nothing significant in the way of precious metals.

3.0 GEOLOGY

3.1 Regional Geology

The Sphaler East property area is situated at the western margin of the Intermontane Belt and bordered by the Coast Plutonic Complex. As described by Logan and Koyanagi (B.C.M.E.M.P.R., Paper 1989-1), it is underlain by rocks of the Stikine terrane which range in age from Upper Paleozoic to Tertiary (Figure 3). This assemblage of marine sediments, limestones, volcanics and volcanic derived sediments is cut by Mesozoic and Tertiary plutonic rocks of the main "Coast Complex", as well as the satellite Hickman, Yeheniko and Nightout plutons.

The oldest rocks in the area consist of Mississippian and older bimodal flows, volcanoclastics, interbedded carbonate and minor shale and chert. These rocks are capped by a Mississippian and Permian limestones with an apparent hiatus in deposition (i.e. licuna) between the Upper Paleozoic limestone and the Middle Triassic sediments.



Property Boundary

SEE FOLLOWING PAGE FOR LEGEND



BRAIDEN RESOURCES LTD.
SPHALER EAST PROPERTY

Liard M.D., B.C.

Regional Geology



HI-TEC
 RESOURCE MANAGEMENT LTD.

SCALE: 1 : 50 000	N.T.S.: 104 B/14	FIGURE No: 3
DWN. BY:	D.: E.	
CHKD. BY:	PROJECT No: 90BC 025	FILE No:

LEGEND LAYERED ROCKS

QUATERNARY

Qal UNCONSOLIDATED GLACIAL TILL AND POORLY SORTED ALLUVIUM

MIDDLE JURASSIC(?)

mJs ARKOSE, SILTSTONES, ARENACEOUS WACKES

LOWER TO MIDDLE(?) JURASSIC

lmJt FELSIC TUFFITE, AIRFALL TUFF; MAY CONTAIN COALY MATERIAL

lmJs LIMY SILTSTONES, FRIABLE SHALE, MAROON VOLCANIC CONGLOMERATE

lmJcg POLYMYCTIC, BOULDER CONGLOMERATE, GRANITE >> VOLCANIC CLASTS

UPPER TRIASSIC

STUHINI GROUP (WHERE UNDIVIDED DENOTED AS uTSv)

uTSs SILTSTONE, SANDSTONE, CONGLOMERATE, MINOR LIMESTONE CONTAINS *Monotis*

uTSt WELL-BEDDED GREEN AND MAROON LAPILLI-ASH TUFFS AND EPICLASTICS

uTSp PYROXENE-PORPHYRY FLOWS AND FRAGMENTALS

uTSb INTERMEDIATE TO MAFIC FRAGMENTALS, BRECCIA, TUFF, LAHAR

MIDDLE TO UPPER TRIASSIC

muTSv MASSIVE ANDESITE FLOWS AND TUFFS, AMYGDALOIDAL BASALT

MIDDLE TRIASSIC

mTs CARBONACEOUS SILTY SHALE WITH ELLIPTICAL CONCRETIONS, SILICEOUS AND LIMY SILTSTONES CONTAINING *Haloobia*

STIKINE ASSEMBLAGE

PERMIAN

PI1 LIGHT GREY MASSIVE TO THICKLY-BEDDED BUFF, BIOCLASTIC CALCARENITE

PI2 DARK GREY TO BUFF THIN BEDDED, BIOCLASTIC LIMESTONE, CHERT INTERBEDS, ARGILLACEOUS NEAR BASE

Pe FOLIATED MAROON AND GREEN EPICLASTICS AND LAPILLI TUFFITE

PERMIAN AND OLDER

Pv PLAGIOCLASE PORPHYRY FLOWS, VOLCANICLASTICS, PURPLE ASH TUFF, CHLORITE SCHIST

Pa SILVER PHYLLITE, SLATE AND PHYLLITIC ARGILLITE

Pu UNDIVIDED GREEN AND MAROON FOLIATED METAVOLCANICS AND METASEDIMENTS

MISSISSIPPIAN

MI1 DARK GREY, MASSIVE TO THIN BEDDED CALCARENITE, CHERT INTERBEDS

Ms PHYLLITE, TUFF, INTRAFORMATIONAL LIMESTONE CONGLOMERATE

MI 2 PALE GREY COARSE-GRAINED CRINOIDAL CALCARENITE, INTERBEDDED TUFFS AND FLOWS

INTRUSIVE ROCKS

TERTIARY

Tp PLAGIOCLASE PORPHYRITIC DIORITE

Tm BIOTITE QUARTZ MONZONITE

JURASSIC TO TERTIARY COAST INTRUSIONS

JTg MEDIUM-GRAINED, PINK, BIOTITE GRANITE

JTd MEDIUM-GRAINED, BIOTITE-HORNBLLENDE DIORITE

JTm POTASSIUM FELDSPAR MEGACRYSTIC GRANITE TO MONZONITE

EARLY TO MIDDLE JURASSIC GALORE CREEK INTRUSIONS

emJGs SYENITE, ORTHOCLASE PORPHYRITIC MONZONITE

EARLY JURASSIC

eJm MEDIUM-GRAINED, HORNBLLENDE, BIOTITE GRANODIORITE TO MONZONITE

MIDDLE TRIASSIC HICKMAN BATHOLITH

mTHd COARSE TO MEDIUM-GRAINED, BIOTITE, HORNBLLENDE, AUGITE-DIORITE TO MONZONITE

ULTRAMAFICS

p PYROXENITE

Geological contact (defined, approximate, assumed).....	
Unconformable contact (defined, assumed)	
Bedding (hor.zontal, inclined, overturned).....	
Foliation	
Fault (observed, inferred).....	
Thrust or high angle reverse fault (defined, assumed).....	
Anticline (direction of plunge indicated).....	
Syncline (direction of plunge indicated).....	
Minor fold axis. (S, Z, and M symmetry), lineation	
Joint.....	
Dyke.....	
Vein.....	
Limit of geologic mapping (limit of permanent snow and ice).....	
Macro Fossil locality (indeterminate, positive identification).....	
Micro fossil locality.....	
Isotopic age determination site.....	
Assay sample site.....	
MINFILE location.....	
Regional Geochem Survey sample site.....	
Massive outcrop visited.....	

By :

JAMES M. LOGAN, VICTOR M. KOYANAGI AND
DAVID RHYS

The oldest Mesozoic units are a sequence of Middle Triassic sediments composed of transitional silty shales, argillites and dolomitic siltstones. This sequence is overlain by the Stuhini Group which includes flows, tuffs, volcanic breccia and sediments and represents an emergent island-arc sequence. The Hickman Batholith and syentic porphyries of the Galore Creek Complex are coeval and comagmatic with the Stuhini volcanics. Mineral deposits in the area appear to be spatially and genetically related to these comagmatic alkaline plutons and the Stuhini. Middle Jurassic to Late Cretaceous successor-basin sediments (Bowser Lake Group?) overly the Stuhini Group and this sedimentary sequence is in turn overlain by a continental volcanic-arc package.

Cenozoic rocks are composed of bimodal subaerial volcanics from which most of the Quarternary fluvial and glacial deposits are derived.

The dominant tectonic fabric of the area trends north to northwest. Numerous faults striking north, north west, northeast and east have produced a fault-block mosaic of the area. The youngest faults (north to northeasterly trending) tend to dominate the immediate area of the Cliff claims.

3.2 Property Geology and Mineralization

The Cliff claims are underlain by a volcanosedimentary sequence of rocks which correlates with the Middle to Upper Triassic Stuhini Group. Lithologies within this Group consist of intermediate to mafic volcanic flows, tuffs, breccias and minor agglomerates overlain by

thinly bedded shales, siltstones and occasional sandstones.

On the southern of flank Sphaler Creek, the sedimentary portion of the Stuhini predominates. These sediments consist of pyritiferous siltstones and shales with occasional interbeds of fine - grained grey sandstone. Pyritization appears to be diagenetic. The only mineralization of note encountered here was with a 1 m wide pod of stockwork - like quartz veinlets which contained visible sphalerite. Faulting along northeast, north, northwest and easterly trends produces a fault - block effect indentifiable within the sediments.

Along the southern border and southeastern quarter of the claims, volcanics are in contact with the sediments. The volcanics are composed of basalt to andesite flows, intermediate tuffs and agglomerates. Minor propylitic alteration was found within these volcanics in the southeast quarter of Cliff 9 claim. This alteration with occasional small zones of up to 5% pyrite bordered the trace of a northeasterly trending fault which runs onto the Trek property.

On the northern slope of the Sphaler (Cliff 1 & 2), a group of massive andesite and basalt flows are encountered as well as a unit of light to medium green dacitic tuff. This type of volcanic sequence appears to dominate most of the northern flank except for a small area in the southeastern portion of the Cliff 1 claim where an altered quartzite horizon was encountered. As well, a sequence of chert, siltstone and sandstone was found along the border of the Cliff 1 and 2 claim.

Although occasional epidote alteration was discovered along discreet east-west trending shears in the volcanics, the most notable mineralization encountered on the northern flank of the Sphaler was found in the altered quartzite horizon. Located at the toe of a glacier, the pyritic, silicified quartzite contained a 3 - 5 metre wide shear zone which could be followed for approximately 300 metres along strike. The strike and dip of the shear is at 105 / 62°NE and it contained numerous thin quartz veinlets (1-3 cm thick) which were generally devoid of mineralization. One vein, the largest, which dilated and pinched (20 to 40 cm thick) down the centre of the shear zone did contain visible amounts of chalcopyrite (with malachite), sphalerite and possible galena. The shear zone appeared to pinch out abruptly in both strike directions.

In the southeast corner of the Sphaler East property (Cliff 9), evidence of a quartz monzonite stock was found in the form of float. The exact contact of this intrusive, which has been mapped as Tertiary in age, was not determined due to permanent snow cover. However, it should be noted that significant gold-silver showings on the Trek claims (bordering on the east of the Cliff claims) have been found in Stuhini rocks peripheral to this stock (Awmack, 1990). Previous mapping by Jones (1989) stated that this intrusive body on the Cliff claims was unaltered and that no economic mineralization was found in association with it.

4.0 GEOCHEMISTRY

4.1 Rock Samples

A total of 21 rock samples were collected during the nine day sampling program on the Cliff 1 - 9 claims. The samples consisted of approximately 2 to 3 kilograms of rock, placed in plastic bags and shipped to Eco Tech Laboratories in Kamloops, B.C. for analysis. Samples were analyzed for Au (10 gram fusion / F.A.), as well as Ag, Cu, Pb, Zn, and As (ICP). A description of analysis methods can be found in Appendix IV.

The highest gold value returned at 780 ppb Au (0.023 oz/ton) was collected from a 1 metre pod of quartz veinlets in a pyritic shale on the Cliff 6 claim. This grab sample (#42222) also returned base metal values of 329 ppm Cu, 197 ppm Pb and 0.60 % Zn. The only other rock samples to show anomalous results were collected from the shear zone located in the southeast corner of the Cliff 1 claim. Nine samples were collected from the 20 - 40 cm wide quartz vein in the center of the shear, as well as the surrounding zone and the altered quartzite. Of these nine, 5 samples showed anomalous values in silver and base metals. Gold was only slightly anomalous in two of the nine samples.

Analysis for the nine samples from this zone are shown in the table 5.1.1 on the following page.

Table 4.1.1

SAMPLE#	SAMPLE TYPE	Au (ppb)	Ag (g/t)	Cu (%, ppm)	Pb (ppm)	Zn (%, ppm)	As (ppm)
42210	grab	35	0.2	62 ppm	13	88	15
42211	25 cm chip	30	94.2	0.44%	675	276 ppm	23
42212	40 cm chip	265	106.8	0.13%	7	692 ppm	42
42213	grab	445	66.2	437 ppm	7	0.28%	54
42214	1.5 m chip	80	34.4	441 ppm	56	116 ppm	234
42215	grab	10	1.5	33 ppm	2	28	23
42216	grab						19
42217	grab						12
42218	grab	15	4.8	0.15%	11	28 ppm	23

Sample locations can be found on the Sample Location and Geology Map (in pocket). Sample descriptions can be found in Appendix III.

4.2 Contour Soil Samples

Soil sampling was carried out at 50 metre intervals across slopes where spot anomalies had been previously defined (Jones, 1988, 1989). Samples were taken from "B" horizon soil when available, numbered and bagged in standard gusseted kraft soil bags. The contour interval was picked at the 1220 to 1250 metre (4000 to 4100 feet) level since at this elevation a natural break in slope occurred. This provided the opportunity to maintain an even soil line without running into impassable cliffs.

During the course of the program, a total of 81 soil samples were collected along three separate soil lines. Thirty-two soils were taken on Cliff 8 claim with two missed samples (4003, 4003) due to outcrop, 19 samples were collected on Cliff 3 and 4 claims and 30 soils were taken from the Cliff 6 claim. All samples were run on a five element ICP for Ag, Cu, Pb, Zn, and As

plus gold fire assay. The highest gold value returned at 70 ppb was taken from the Cliff 8 soil line (Sample #4014). This soil line also provided some slightly anomalous base metal results such as sample #4023 at 308 ppm Cu, sample #4026 at 158 ppm Cu and 182 ppm Zn and sample #4032 at 232 ppm Cu and 186 ppm Zn. Samples collected from Cliff 3 and 4 claims only provided one anomalous base metal value from sample #4054 at 693 ppm Cu. No anomalous gold values were detected. As for the soil line across Cliff 6, again no anomalous gold values were returned. The highest base metal value detected at 119 ppm Zn (#4068) was collected approximately 50 metres below a 1 metre wide stockwork of quartz veinlets which produced an anomalous zinc result of 0.6% Zn.

4.3 Heavy Mineral Concentrates

Eleven heavy mineral concentrates (field-sieved) were collected in the active portions of creeks which cut the claims from the north and south and drained into Sphaler Creek. A number of desired locations for sampling were inaccessible due to steep cliffs and high runoff. Sample HM90-006 and silt backup sample S4037 were found to be slightly anomalous in gold at 115 ppb and 55 ppb Au respectively. Both these samples were collected out of a creek which drains from a glacier on the Cliff 1 claim. This creek also cuts the east/west trending shear mentioned in section 5.1 which may account for the slightly anomalous result. The only other sample to produce anomalous results, at least in silver and base metals, was sample HM 90-004 taken from a creek which cut Cliff 5 claim. This sample returned values of 19.2 g/t Ag, 491 ppm Cu, 225 ppm Pb 683 ppm

Zn, and 416 ppm As. Sampling on the upper reaches of this creek in 1988 (Jones, 1989B) did not produce any correlative results in silver or base metals with HM 90-004. It should be noted, that the sample (HM90-004) was collected near the flood plain on Cliff 5 and may be the result of glacial or outwash debris.

4.4 Silt Sampling

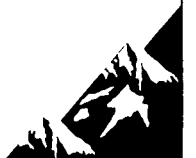
A total of 5 silt samples were taken during the program. These silts were collected as backup samples for the heavy mineral concentrates especially in streams where insufficient material could be found for a valid heavy mineral concentrate sample. Of the 5 silts, sample S4037 produced the highest gold result at 55 ppb Au. This sample was collected near HM90-006 which also produced the only anomalous gold result in heavy metals at 115 ppb. The only other silt to produce anomalous results in base metals was sample S4036 at 115 ppm Cu and 173 ppm Zn. This sample was collected near HM90-005 which produced slightly anomalous results 176 ppm Cu and 176 ppm.

Respectfully submitted,
HI-TEC RESOURCE MANAGEMENT LTD.



Duane R. Lucas, B.Sc., F.G.A.C.

October 10, 1990



5.0 REFERENCES

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- Brown, D.S., and Gunning, M.H. (1989a): Geology of the Scud River area, North Western British Columbia, (104G/5,6), in Geological Fieldwork 1988; British Columbia Ministry of Energy, Mines, and Petroleum Resources, Geological Survey Branch, Paper 1989-1, pp. 251-267.
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Panteleyev, A. (1976): Galore Creek map area, British Columbia, in Geological Fieldwork 1975; British Columbia Ministry of Energy, Mines, and Petroleum Resources; Geological Survey Branch, Paper 1976-1, pp. 79-81.

APPENDIX I
Statement of Costs

STATEMENT OF COSTS

BRAIDEN RESOURCE CORPORATION
JOB 90BC025
SPHALER EAST PROJECTSalaries

Duane Lucas, Geologist, 7.50 days @ \$400/day \$ 3,000.00
Darwin Carstens, Assistant Geologist, 7.00 days @ \$300/day 2,100.00 \$ 5,100.00

Project Expense

Project Preparation 1,016.50

Mobilization/Demobilization 5,485.64

Domicile 14.50 man days @ \$75/day 1,087.50

Geochemistry and Laboratory Service

Soils

81 Samples @ \$1.00/sample preparation 81.00

81 Samples @\$11.75/6 element ICP; Au Geochem 951.75

Silts

5 Samples @\$1.00/sample preparation 5.00

5 Samples @\$11.75/6 element ICP; Au Geochem 58.75

Bulk Stream

11 Samples @\$2.25/sample preparation 24.75

11 Samples @\$16.50/sample Ag, Cu, Pb, Zn, Mo, As, Geochem 181.50

Rocks

21 Samples @\$3.75/sample preparation 78.75

21 Samples @\$12.13/6 element ICP; Au Geochem 254.75

2 Samples @\$6.50/sample Zn Assay 13.00

3 Samples @\$6.50/sample Cu Assay 19.50

4 Samples @\$8.50/sample Ag Assay 34.00

Fax services 10 pages @\$.50/page 5.00 1,707.75

Helicopter Support

Helicopter 3.60 hours @\$722.32/hour 2,600.36

Radio Rental .25 month @ \$250/month.. 62.50

Walkie Talkie

2 units @ \$5/day/unit 14 days 140.00

Field Supplies 197.99

Expediting 175.00

Accounting, Communications, and Freight 275.05

Report Preparation, drafting and compilation 2,140.00

15% Management Fees 2,998.24

TOTAL COST

\$ 22,986.53

APPENDIX II

Statement of Qualifications



STATEMENT OF QUALIFICATIONS

I, DUANE R. LUCAS, do hereby certify that:

1. I am a qualified geologist residing 3408 West 27th Avenue, Vancouver, B.C. V6S 1P6.
2. I am a graduate with a Bachelor of Science degree in Geology from the University of British Columbia and have practised my profession for 13 years.
3. I am a Fellow of the Geological Association of Canada.
4. The data contained within this report was obtained from personal field examination, published and unpublished reports and other sources of information acknowledged in the section on References.
5. I have no interest, nor do I expect to receive any interest in Braiden Resources Ltd. or the Sphaler East property.
6. The full text of this report as well as any accompanying maps may be reproduced in their entirety.

Dated in Vancouver, British Columbia, this 10th day of October 1990.

DR. Lucas

Duane R. Lucas, B.Sc., F.G.A.C.

APPENDIX III
Rock Sample Descriptions



ROCK SAMPLES

Cliff 1

<u>SAMPLE #</u>	<u>SAMPLE TYPE</u>	<u>DESCRIPTION</u>
42210	grab	fine-grained quartzite with interbedded bands of pyritic siltstone. Quartzite is med. grey to orange-brown. Py up to 20% in thin silty bands.
42211	25cm chip	Quartz vein (20cm thick) in silicified and pyritized quartzite. Quartz vein subparallel to bedding surface. Approx. <0.5% Py/Cpy in vein.
42212	40cm chip	Quartz as in 42211, but 20m west. Vein dilates to 40cm. <1% Cpy, <0.5% Py, trace Pb and Sph.
42213	grab	High grade grab of quartz vein at sample 42212
42214	1.5m chip	Siliceous and altered (pyritized) quartzite in contact with sample 42211.
42215	grab	50cm quartz pod on siliceous, pyritic seds. 2% Py in quartz.
42216	grab	Orange-brown, pyritic interbedded fine grained quartzite. Py approx. 3%.
42217	grab	35m wide altered sed (fine grained quartzite) up to 5 - 8% Py.
42218	grab	Same vein zone as in 42211-13 but 350m west. Up to 25cm thick in a 5m wide zone of siliceous seds. <1% Py with minor Cpy.
42219	grab	Siliceous, chert, banded light tan to med. grey. Occasional thin laminae of pyrite rich sed.
42220	grab	Calcareous, green sandstone, fine to med. grained with occasional 1-2cm siliceous clasts.

<u>SAMPLE #</u>	<u>SAMPLE TYPE</u>	<u>DESCRIPTION</u>
42221	grab	Limonitic band of fine to med. grained sandstone. Approx 1m thick.
Cliff 3		
42208	grab	Siliceous light to med. grey andesite.
42209	grab	Epidotized, dark grey to med. green basalt.
Cliff 4		
No Samples		
Cliff 5		
No Samples		
Cliff 6		
42222	grab	Pyritic, rusty shales with 1m wide pod of thin anastomosing quartz veinlets.
Cliff 7		
No Samples		
Cliff 8		
42203	grab	Medium to dark grey mafic (basalt) volcanic. Very fine crystalline. No visible sulphides.
42204	grab	Fe-rich argillaceous seds., brown to orange-brown.
42205	grab	Mafic volcanic with thin epidote veinlets.
42206	grab	Fe-rich, Argillaceous seds, abundant limonite but no visible sulphides.
42207	grab	Siliceous andesite with very fine quartz veinlets. Trace of Py disseminated.

APPENDIX IV
Sampling Methodology
and
Methods of Analysis

SAMPLING METHODOLOGY

A. STREAM SEDIMENTS

Silt Samples

Approximately 0.5 kg of silt was collected from the active stream channel, placed in a standard gusseted kraft bag and shipped to Eco Tech Laboratories in Kamloops. These samples were then dried and sieved to -80 mesh. A ten gram split of the sample was analyzed for gold by fire assay with atomic absorption finish. A one gram split of the remainder of the sample was analyzed for 30 elements using Aqua Regia extraction and ICP.

Heavy Mineral Samples

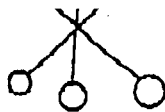
A sample of between 5 gm and 30 gm was panned in the field from two pans of -1.4 cm gravel and one pan of moss. The panned material was placed in 6 mil plastic bags and shipped to Eco Tech Laboratories Ltd. in Kamloops. A one gram split of this material was analyzed for silver, lead, copper and zinc using wet extraction and atomic absorption. The remainder of the sample was analyzed for gold using fire assay and atomic absorption finish.

B. LITHOGEOCHEMICAL SAMPLING

Approximately 2 kg of rock was collected and placed in 6 mm plastic bags and shipped to Eco Tech Laboratories in Kamloops. This material was crushed and pulverized to -140 mesh and a 1 assay ton split taken. The split was analyzed for gold using fire assay and atomic absorption finish. Another 10 gm split was analyzed for copper, lead, zinc and silver using wet extraction and atomic absorption finish.

C. SOIL SAMPLES

Approximately 0.5 kg of "B" horizon soil, where available, or talus fines where not, was placed in standard gusseted kraft bag and shipped to Eco Tech Laboratories in Kamloops. This material was dried and sieved to -80 mesh. A 14 gram sample was analyzed for gold using fire assay and atomic absorption finish. Another one gram split was analyzed for 30 elements using Aqua Regia extraction and ICP.



GEOCHEMICAL LABORATORY METHODS

SAMPLE PREPARATION (STANDARD)

1. Soil or Sediment: Samples are dried and then sieved through 80 mesh nylon sieves.
2. Rock, Core: Samples dried (if necessary), crushed, riffled to pulp size and pulverized to approximately -140 mesh.
3. Heavy Mineral Separation: Samples are screened to -20 mesh, washed and separated in Tetrabromothane. (SG 2.96)

METHODS OF ANALYSIS

All methods have either certified or in-house standards carried through entire procedure to ensure validity of results.

1. Multi-Element Cd, Cr, Co, Cu, Fe (acid soluble),
Pb, Mn, Ni, Ag, Zn, Mo

Digestion

Hot aqua-regia

Finish

Atomic Absorption, background correction applied where appropriate

A) Multi-Element ICP

Digestion

Hot aqua-regia

Finish

ICP

2. Antimony

Digestion

Hot aqua regia

Finish

Hydride generation - A.A.S.

3. Arsenic

Digestion

Hot aqua regia

Finish

Hydride generation - A.A.S.

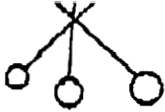
4. Barium

Digestion

Lithium Metaborate Fusion

Finish

I.C.P.



5. **Beryllium**

Digestion

Hot aqua regia

Finish

Atomic Absorption

6. **Bismuth**

Digestion

Hot aqua regia

Finish

Atomic Absorption

7. **Chromium**

Digestion

Sodium Peroxide Fusion

Finish

Atomic Absorption

8. **Fluorine**

Digestion

Lithium Metaborate Fusion

Finish

Ion Selective Electrode

9. **Mercury**

Digestion

Hot aqua regia

Finish

Cold vapor generation -
A.A.S.

10. **Phosphorus**

Digestion

Lithium Metaborate Fusion

Finish

I.C.P. finish

11. **Selenium**

Digestion

Hot aqua regia

Finish

Hydride generation - A.A.S.

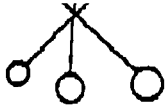
12. **Tellurium**

Digestion

Hot aqua regia
Potassium Bisulphate Fusion

Finish

Hydride generation - A.A.S.
Colorimetric or I.C.P.



13. Tin

Digestion

Ammonium Iodide Fusion

Finish

Hydride generation - A.A.S.

14. Tungsten

Digestion

Potassium Bisulphate Fusion

Finish

Colorimetric or I.C.P.

15. Gold

Digestion

Fire Assay Preconcentration
followed by Aqua Regia

Finish

Atomic Absorption

16. Platinum, Palladium, Rhodium

Digestion

Fire Assay Preconcentration
followed by Aqua Regia

Finish

Graphite Furnace - A.A.S.

APPENDIX V
Analytical Results



AUGUST 3, 1990

CERTIFICATE OF ANALYSIS ETK 90-356
 =====

PRIME EXPLORATIONS LTD.
 P.O. BOX 10, 10TH FLOOR
 808 WEST HASTINGS STREET
 VANCOUVER, B.C.
 V6C 2X4

ATTENTION: JIM FOSTER

SAMPLE IDENTIFICATION: 16 ROCK samples received JULY 25, 1990
 PROJECT: 90-BC-025 CLIFF
 SHIPMENT NO.:

ETH	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)
356 - 1	42203	155	.2	91	4	81	7
356 - 2	42204	10	.1	61	2	67	13
356 - 3	42205	45	.1	120	3	78	41
356 - 4	42206	15	.2	108	14	89	9
356 - 5	42207	20	.1	91	6	38	11
356 - 6	42208	15	.1	74	2	74	5
356 - 7	42209	190	.7	206	3	69	3
356 - 8	42210	35	.2	62	13	88	15
356 - 9	42211	30	>30	>1000	675	276	23
356 - 10	42212	265	>30	>1000	7	692	42
356 - 11	42213	445	>30	437	7	>1000	54
356 - 12	42214	80	>30	441	56	116	234
356 - 13	42215	10	1.5	33	2	28	23
356 - 14	42216	30	.2	82	10	82	19
356 - 15	42217	20	.1	87	15	70	12
356 - 16	42218	15	4.8	>1000	11	28	23

NOTE: > = GREATER THAN

Jutta Jealouse
 ECC-TECH LABORATORIES LTD.
 JUTTA JEALOUSE
 D.C. Certified Assayer

FAX: J. FOSTER 1-687-2309

cc: V. KURAN HI-TEC

SC90/HIGH TEC-011



JULY 31, 1990

CERTIFICATE OF ANALYSIS ETK 90-353
 =====

RIME EXPLORATIONS LTD.
 P.O. BOX 10, 10TH FLOOR
 08 WEST HASTINGS STREET
 ANCOUVER, B.C.
 6C 2X4

ATTENTION: JIM FOSTER

SAMPLE IDENTIFICATION: 5 ROCK samples received JULY 25, 1990

PROJECT: 90-BC-025 CLIFF

SHIPMENT NO.:

BT#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)
353 - 1	42219	25	.2	129	64	63	69
353 - 2	42220	<5	<.1	42	12	97	6
353 - 3	42221	<5	<.1	20	15	62	11
353 - 4	42222	780	1.1	329	197	>1000	16
353 - 5	42223	<5	.7	210	15	43	6

NOTE:

Jutta Jealouse
 HCU-TECH LABORATORIES LTD.
 JUTTA JEALOUSE
 B.C. Certified Assayer

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cc: V. KURAN HI-TEC

SC90/HIGH TEC-011

Fax out



AUGUST 3, 1990

CERTIFICATE OF ANALYSIS ETK 90-356
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PRIME EXPLORATIONS LTD.
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 808 WEST HASTINGS STREET
 VANCOUVER, B.C.
 V6C 2X4

A S S A Y S

ATTENTION: JIM FOSTER

SAMPLE IDENTIFICATION: 16 ROCK samples received JULY 25, 1990

PROJECT: 90-BC-025 CLIFF

SHIPMENT NO.:

ET#	Description	AG (g/t)	CU (%)	7N (ppm)
356	9 42211	94.2	.44	
356 -	10 42212	106.8	.13	
356 -	11 42213	66.2		.28
356	12 42214	34.4		
356 -	16 42218			

NOTE: > = GREATER THAN

Jutta Jealouse
 =====
 ECO TECH LABORATORIES LTD.
 JUTTA JEALOUSE
 B.C. Certified Assayer

FAX: J. FOSTER 1-687-2309

cc: V. KURAN HI-TEC

SC90/11111 IFC 011

JULY 31, 1990

CERTIFICATE OF ANALYSIS ETK 90-353
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RIME EXPLORATIONS LTD.
P.O. BOX 10, 10TH FLOOR
88 WEST HASTINGS STREET
VANCOUVER, B.C.
V6C 2X4

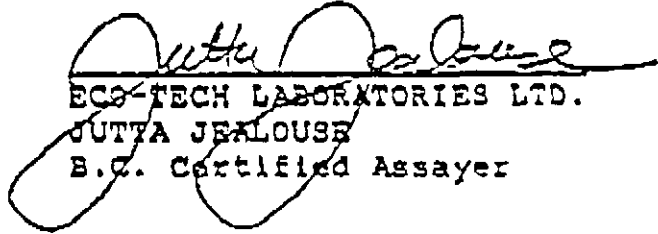
A S S A Y

ATTENTION: JIM FOSTER

SAMPLE IDENTIFICATION: 5 ROCK samples received JULY 25, 1990
----- PROJECT: 90-BC-025 CLIFF

ET#	Description	ZN (%)
53 - 4	42222	.60

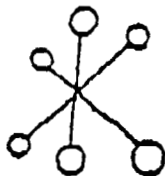
NOTE: < = LESS THAN
> = GREATER THAN


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10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4057

AUGUST 16, 1990

CERTIFICATE OF ANALYSIS ETK 90-351

PRIME EXPLORATIONS LTD.
P.O. BOX 10, 10TH FLOOR
808 WEST HASTINGS STREET
VANCOUVER, B.C.
V6C 2X4

ATTENTION: JIM FOSTER

SAMPLE IDENTIFICATION: 7 PAN CONCENTRATE SAMPLES FOR HEAVY MINERAL CONCENTRATION
----- received July 25, 1990 (SG 2.96)

PROJECT: 90-BC-025 CLIFF

SHIPMENT NO.:

BT#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	MO (ppm)
351 - 1	HM 90 - 001	10	8.3	270	40	164	312	17
351 - 2	HM 90 - 002	5	7.4	67	27	92	72	20
351 - 3	HM 90 - 003	25	.3	50	9	46	13	18
351 - 4	HM 90 - 004	5	19.2	491	225	683	416	21
351 - 5	HM 90 - 005	5	3.2	176	30	176	89	5
351 - 6	HM 90 - 006	115	.1	70	8	37	5	3
351 - 7	HM 90 - 007	5	<.1	188	11	48	14	3

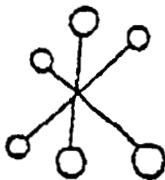
NOTE: < = LESS THAN

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ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-3700 Fax 573-4557

AUGUST 16, 1990

CERTIFICATE OF ANALYSIS ETK 90-358

PRIME EXPLORATIONS LTD.
P.O. BOX 10, 10TH FLOOR
808 WEST HASTINGS STREET
VANCOUVER, B.C.
V6C 2X4

ATTENTION: JIM FOSTER


SAMPLE IDENTIFICATION: 2 PAN CONC. SAMPLES FOR HEAVY MINERAL CONCENTRATION
RECEIVED JULY 25, 1990 (SG 2.96)

PROJECT: 90-BC-025

SHIPMENT NO.:

ET#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	MO (ppm)
358 - 1	HM - 90 - 008	5	<0.1	80	9	52	11	9
358 - 2	HM - 90 - 009	15	<0.1	71	10	54	11	4

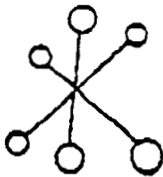
NOTE: < = LESS THAN


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B.C. Certified Assayer

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10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4657

AUGUST 16, 1990

CERTIFICATE OF ANALYSIS ETK 90-355
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PRIME EXPLORATIONS LTD.
P.O. BOX 10, 10TH FLOOR
808 WEST HASTINGS STREET
VANCOUVER, B.C.
V6C 2X4

ATTENTION: JIM FOSTER

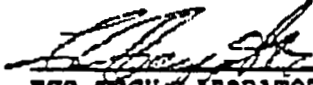
SAMPLE IDENTIFICATION: 2 PAN CONC. samples for HEAVY MINERAL CONCENTRATION
----- received July 25, 1990 (SG 2.96)

PROJECT: 90-BC-025

SHIPMENT NO.:

BT#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	MO (ppm)
355 - 1	HM - 90 - 010	5	.4	64	23	112	27	6
355 - 2	HM - 90 - 011	20	5.2	70	24	87	36	9

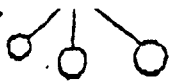
NOTE: < = LESS THAN


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JULY 31, 1990

CERTIFICATE OF ANALYSIS ETK 90-350
 =====

PRIME EXPLORATIONS LTD.
 P.O. BOX 10, 10TH FLOOR
 808 WEST HASTINGS STREET
 VANCOUVER, B.C.
 V6C 2X4

ATTENTION: JIM FOSTER

SAMPLE IDENTIFICATION: 32 SOIL samples received JULY 25, 1990

PROJECT: 90-BC-025

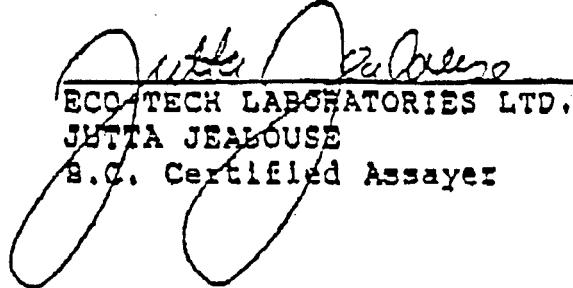
ET#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)
350 -	1 S 4001	<5	<.1	100	14	103	14
350 -	2 S 4002	<5	<.1	58	21	106	6
350 -	3 S 4004	<5	<.1	44	16	107	3
350 -	4 S 4005	<5	<.1	67	17	121	4
350 -	5 S 4006	<5	<.1	79	16	81	4
350 -	6 S 4007	<5	<.1	46	11	80	60
350 -	7 S 4008	5	<.1	18	9	48	13
350 -	8 S 4009	<5	<.1	149	20	145	66
350 -	9 S 4010	<5	<.1	46	12	91	31
350 -	10 S 4011	<5	<.1	29	21	88	22
350 -	11 S 4012	<5	<.1	48	13	95	38
350 -	12 S 4013	10	<.1	40	11	101	23
350 -	13 S 4014	70	<.1	23	14	70	49
350 -	14 S 4015	15	<.1	109	19	145	66
350 -	15 S 4016	<5	<.1	54	16	100	40
350 -	16 S 4017	<5	<.1	46	10	76	25
350 -	17 S 4018	<5	<.1	33	12	80	31
350 -	18 S 4019	<5	<.1	35	9	79	22
350 -	19 S 4020	<5	<.1	57	11	94	48
350 -	20 S 4021	5	<.1	83	10	135	78
350 -	21 S 4022	<5	<.1	132	9	107	56
350 -	22 S 4023	5	<.1	308	11	89	40
350 -	23 S 4024	<5	<.1	82	12	108	52
350 -	24 S 4025	<5	<.1	49	14	87	60
350 -	25 S 4026	<5	<.1	158	17	182	62
350 -	26 S 4027	<5	<.1	141	12	97	45
350 -	27 S 4028	5	<.1	127	15	167	32
350 -	28 S 4029	<5	<.1	92	16	104	29
350 -	29 S 4030	<5	<.1	94	17	124	17
350 -	30 S 4031	<5	<.1	179	16	172	20



PRIME EXPLORATIONS LTD.

ET#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)
350 -	31 S 4032	<5	<.1	232	17	186	49
350 -	32 S 4034	<5	<.1	26	10	56	8

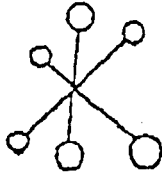
NOTE: < = LESS THAN


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10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 673-6700 Fax 673-4657

JULY 31, 1990

CERTIFICATE OF ANALYSIS ETK 90-357

PRIME EXPLORATIONS LTD.
 P.O. BOX 10, 10TH FLOOR
 808 WEST HASTINGS STREET
 VANCOUVER, B.C.
 V6C 2X4

ATTENTION: JIM FOSTER

SAMPLE IDENTIFICATION: 19 SOIL samples received JULY 25, 1990
 PROJECT: 90-BC-025 CLIFF
 SHIPMENT NO.:

ET#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)	
357 - 1	S - 40	39	10	.2	74	9	86	10
357 - 2	S - 40	40	15	<.1	32	10	39	6
357 - 3	S - 40	41	5	.7	58	8	60	5
357 - 4	S - 40	42	5	<.1	38	11	73	9
357 - 5	S - 40	43	10	<.1	105	8	57	8
357 - 6	S - 40	44	5	<.1	34	9	60	5
357 - 7	S - 40	45	15	<.1	42	7	56	4
357 - 8	S - 40	46	10	.1	55	5	60	2
357 - 9	S - 40	47	10	<.1	35	13	92	4
357 - 10	S - 40	48	10	<.1	33	9	53	2
357 - 11	S - 40	49	<5	<.1	23	8	62	2
357 - 12	S - 40	50	5	<.1	16	8	37	3
357 - 13	S - 40	51	<5	<.1	40	6	40	1
357 - 14	S - 40	52	<5	<.1	67	10	56	2
357 - 15	S - 40	53	<5	<.1	49	7	76	2
357 - 16	S - 40	54	10	<.1	693	14	88	8
357 - 17	S - 40	55	<5	<.1	17	10	43	2
357 - 18	S - 40	56	5	<.1	37	7	59	6
357 - 19	S - 40	57	<5	<.1	47	9	53	5

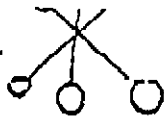
NOTE: < = LESS THAN

Jutta Jealouse
 ECO-TECH LABORATORIES LTD.
 JUTTA JEALOUSE
 B.C. Certified Assayer

FAX: J. FOSTER 1-687-2309

cc: V. KURAN HI-TEC

SC90/HIGH TEC-011



JULY 31, 1990

CERTIFICATE OF ANALYSIS ETK 90-354

PRIME EXPLORATIONS LTD.
 P.O. BOX 10, 10TH FLOOR
 808 WEST HASTINGS STREET
 VANCOUVER, B.C.
 V6C 2X4

BRADEN
OPTION
SPHALER EAST

ATTENTION: JIM FOSTER

SAMPLE IDENTIFICATION: 30 SOIL samples received JULY 25, 1990

PROJECT: 90-BC-025 CLIFF
 SHIPMENT NO.:

ET#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)
354 - 1	S 4058	5	<.1	52	13	71	12
354 - 2	S 4059	<5	<.1	29	16	65	10
354 - 3	S 4060	<5	<.1	62	17	85	16
354 - 4	S 4061	5	<.1	74	23	103	35
354 - 5	S 4062	<5	<.1	66	20	83	20
354 - 6	S 4063	10	<.1	45	18	84	38
354 - 7	S 4064	<5	<.1	32	19	74	20
354 - 8	S 4065	<5	<.1	60	18	71	34
354 - 9	S 4066	<5	<.1	15	8	90	12
354 - 10	S 4067	10	<.1	92	13	91	72
354 - 11	S 4068	<5	<.1	62	21	119	41
354 - 12	S 4069	<5	<.1	19	10	41	38
354 - 13	S 4070	<5	<.1	62	19	92	34
354 - 14	S 4071	<5	<.1	70	12	73	18
354 - 15	S 4072	<5	<.1	44	14	77	23
354 - 16	S 4073	<5	<.1	74	15	110	50
354 - 17	S 4074	10	<.1	53	14	88	26
354 - 18	S 4075	<5	<.1	30	19	41	17
354 - 19	S 4076	<5	<.1	98	20	86	26
354 - 20	S 4077	10	<.1	111	26	101	29
354 - 21	S 4078	<5	<.1	59	16	81	21
354 - 22	S 4079	<5	<.1	66	21	95	22
354 - 23	S 4080	<5	<.1	18	16	41	8
354 - 24	S 4081	<5	<.1	105	24	117	32
354 - 25	S 4082	5	<.1	47	21	77	22
354 - 26	S 4083	<5	<.1	92	17	92	29
354 - 27	S 4084	<5	<.1	31	19	54	24
354 - 28	S 4085	10	<.1	53	18	88	21
354 - 29	S 4086	5	<.1	69	16	99	17
354 - 30	S 4087	<5	<.1	40	15	84	21

NOTE: < = LESS THAN

Jutta Jealous
 ECO-TECH LABORATORIES LTD.
 JUTTA JEALOUSE
 B.C. Certified Assayer

FAX: J. FOSTER 1-687-2309

cc: V. KURAN HI-TEC

JULY 31, 1990

CERTIFICATE OF ANALYSIS ETK 90-349
=====

PRIME EXPLORATIONS LTD.
P.O. BOX 10, 10TH FLOOR
808 WEST HASTINGS STREET
VANCOUVER, B.C.
V6C 2X4

ATTENTION: JIM FOSTER

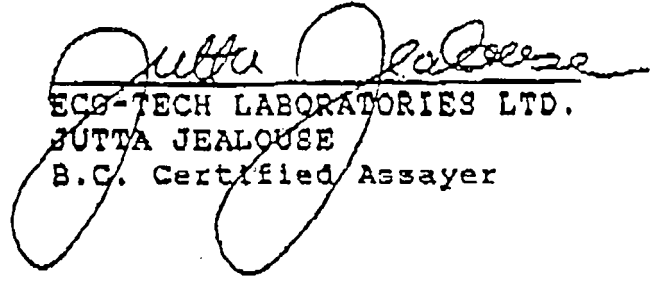
SAMPLE IDENTIFICATION: 5 SILT samples received JULY 25, 1990

PROJECT: 90-BC-025 C:ff

SHIPMENT NO.:

ET#	Description	AU (ppb)	AG (ppm)	CU (ppm)	PB (ppm)	ZN (ppm)	AS (ppm)
349 -	1 S 4032A	<5	<.1	52	12	75	11
349 -	2 S 4035	10	<.1	77	18	92	40
349 -	3 S 4036	10	<.1	155	22	173	90
349 -	4 S 4037	55	<.1	62	8	42	18
349 -	5 S 4038	5	<.1	79	10	54	10

NOTE: < = LESS THAN


ETC-TECH LABORATORIES LTD.
JUTTA JEALOUSE
B.C. Certified Assayer

FAX: J. FOSTER 1-687-2309

cc: V. KURAN HI-TEC

SC90/HIGH TEC-011

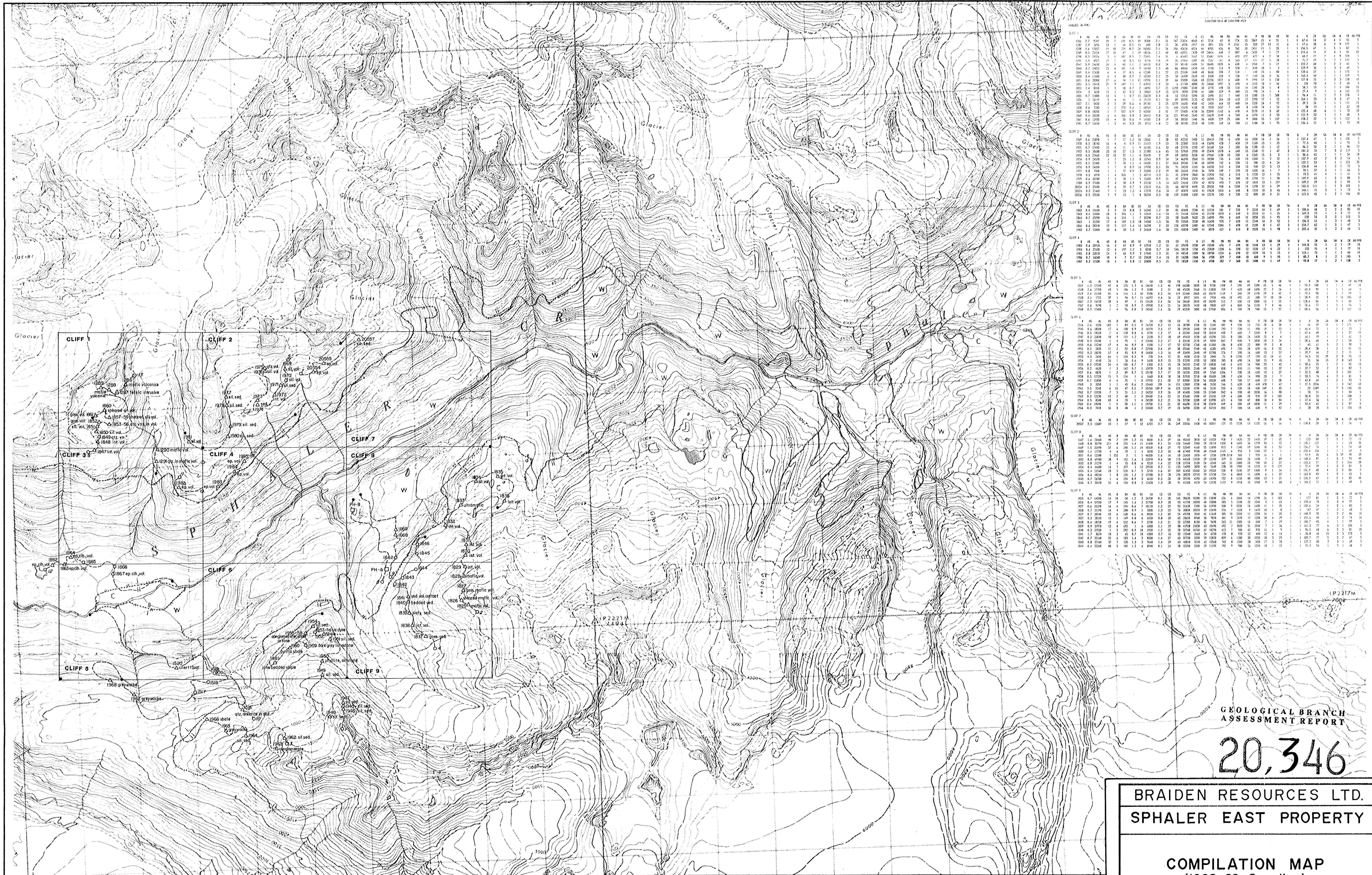


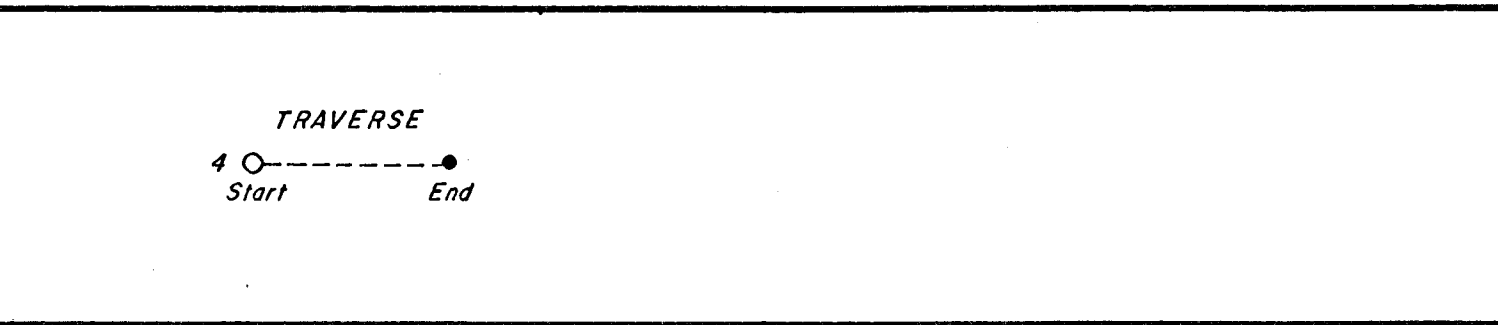
TABLE 1

CLIFF	NO.	DATE	MADE BY	DESCRIPTION
CLIFF 1	1	1988	J. H. ...	...
CLIFF 1	2	1988	J. H. ...	...
CLIFF 1	3	1988	J. H. ...	...
CLIFF 1	4	1988	J. H. ...	...
CLIFF 1	5	1988	J. H. ...	...
CLIFF 1	6	1988	J. H. ...	...
CLIFF 1	7	1988	J. H. ...	...
CLIFF 1	8	1988	J. H. ...	...
CLIFF 1	9	1988	J. H. ...	...
CLIFF 1	10	1988	J. H. ...	...
CLIFF 1	11	1988	J. H. ...	...
CLIFF 1	12	1988	J. H. ...	...
CLIFF 1	13	1988	J. H. ...	...
CLIFF 1	14	1988	J. H. ...	...
CLIFF 1	15	1988	J. H. ...	...
CLIFF 1	16	1988	J. H. ...	...
CLIFF 1	17	1988	J. H. ...	...
CLIFF 1	18	1988	J. H. ...	...
CLIFF 1	19	1988	J. H. ...	...
CLIFF 1	20	1988	J. H. ...	...
CLIFF 1	21	1988	J. H. ...	...
CLIFF 1	22	1988	J. H. ...	...
CLIFF 1	23	1988	J. H. ...	...
CLIFF 1	24	1988	J. H. ...	...
CLIFF 1	25	1988	J. H. ...	...
CLIFF 1	26	1988	J. H. ...	...
CLIFF 1	27	1988	J. H. ...	...
CLIFF 1	28	1988	J. H. ...	...
CLIFF 1	29	1988	J. H. ...	...
CLIFF 1	30	1988	J. H. ...	...
CLIFF 1	31	1988	J. H. ...	...
CLIFF 1	32	1988	J. H. ...	...
CLIFF 1	33	1988	J. H. ...	...
CLIFF 1	34	1988	J. H. ...	...
CLIFF 1	35	1988	J. H. ...	...
CLIFF 1	36	1988	J. H. ...	...
CLIFF 1	37	1988	J. H. ...	...
CLIFF 1	38	1988	J. H. ...	...
CLIFF 1	39	1988	J. H. ...	...
CLIFF 1	40	1988	J. H. ...	...
CLIFF 1	41	1988	J. H. ...	...
CLIFF 1	42	1988	J. H. ...	...
CLIFF 1	43	1988	J. H. ...	...
CLIFF 1	44	1988	J. H. ...	...
CLIFF 1	45	1988	J. H. ...	...
CLIFF 1	46	1988	J. H. ...	...
CLIFF 1	47	1988	J. H. ...	...
CLIFF 1	48	1988	J. H. ...	...
CLIFF 1	49	1988	J. H. ...	...
CLIFF 1	50	1988	J. H. ...	...
CLIFF 1	51	1988	J. H.
CLIFF 1	52	1988	J. H.
CLIFF 1	53	1988	J. H.
CLIFF 1	54	1988	J. H.
CLIFF 1	55	1988	J. H.
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CLIFF 1	58	1988	J. H.
CLIFF 1	59	1988	J. H.
CLIFF 1	60	1988	J. H.
CLIFF 1	61	1988	J. H.
CLIFF 1	62	1988	J. H.
CLIFF 1	63	1988	J. H. ...	...
CLIFF 1	64	1988	J. H. ...	...
CLIFF 1	65	1988	J. H. ...	...
CLIFF 1	66	1988	J. H. ...	...
CLIFF 1	67	1988	J. H. ...	...
CLIFF 1	68	1988	J. H. ...	...
CLIFF 1	69	1988	J. H. ...	...
CLIFF 1	70	1988	J. H. ...	...
CLIFF 1	71	1988	J. H. ...	...
CLIFF 1	72	1988	J. H. ...	...
CLIFF 1	73	1988	J. H. ...	...
CLIFF 1	74	1988	J. H. ...	...
CLIFF 1	75	1988	J. H. ...	...
CLIFF 1	76	1988	J. H. ...	...
CLIFF 1	77	1988	J. H. ...	...
CLIFF 1	78	1988	J. H. ...	...
CLIFF 1	79	1988	J. H. ...	...
CLIFF 1	80	1988	J. H. ...	...
CLIFF 1	81	1988	J. H. ...	...
CLIFF 1	82	1988	J. H. ...	...
CLIFF 1	83	1988	J. H. ...	...
CLIFF 1	84	1988	J. H. ...	...
CLIFF 1	85	1988	J. H. ...	...
CLIFF 1	86	1988	J. H. ...	...
CLIFF 1	87	1988	J. H. ...	...
CLIFF 1	88	1988	J. H. ...	...
CLIFF 1	89	1988	J. H. ...	...
CLIFF 1	90	1988	J. H. ...	...
CLIFF 1	91	1988	J. H. ...	...
CLIFF 1	92	1988	J. H. ...	...
CLIFF 1	93	1988	J. H. ...	...
CLIFF 1	94	1988	J. H. ...	...
CLIFF 1	95	1988	J. H. ...	...
CLIFF 1	96	1988	J. H. ...	...
CLIFF 1	97	1988	J. H. ...	...
CLIFF 1	98	1988	J. H. ...	...
CLIFF 1	99	1988	J. H. ...	...
CLIFF 1	100	1988	J. H. ...	...

ABBREVIATIONS

chl. - chlorite	sil. - silicified	△ Rock Sample
ep. - epidote	sed. - sediments	□ Representative Rock Sample
goss. - gossan	vol. - volcanics	○ Silt Sample
int. - intrusive	vns. - veins	
qtz. - quartz		

..... < 5% Outcrop
 ||| > 50% Outcrop



NO.	DATE	MADE BY	DESCRIPTION
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GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,346

BRADEN RESOURCES LTD.
SPHALER EAST PROPERTY

COMPILATION MAP
(1988-89 Sampling)

SCALE: 1:10,000	N.T.S.: 104B/14W	FIGURE NO: 5
DWN. BY: [Signature]	DATE: OCT. 1990	FILE NO: [Blank]
CHKD. BY: [Signature]	PROJECT NO: 90 BC 025	

HITEC RESOURCE MANAGEMENT LTD.



GEOLOGICAL BRANCH
ASSESSMENT REPORT
20,346

SOIL SAMPLES							ROCK SAMPLES							HEAVY MINERAL BULK STREAM SAMPLES							LEGEND
Sample No.	Altitude	Natural	Control	External	Internal	Altitude	Sample No.	Altitude	Natural	Control	External	Internal	Altitude	Sample No.	Altitude	Natural	Control	External	Internal	Altitude	
S-0001	100	100	100	100	100	100	R-0001	155	155	155	155	155	155	HM-0001	10	10	10	10	10	10	10

BRAIDEN RESOURCES LTD.
SPHALER EAST PROPERTY

PROPERTY GEOLOGY and SAMPLE LOCATIONS

SCALE: 1:10,000
N.T.S.: 104B/14W
DWN. BY: [Name]
DATE: OCT. 1990
CHKD. BY: [Name]
PROJECT No: 90 BC025
FIGURE No: **4**
FILE No: [Name]

HI-TEC RESOURCE MANAGEMENT LTD.