GEOLOGICAL AND GEOCHEMICAL REPORT

on the

DEER-1 MINERAL CLAIM

Stump Lake Area
Nicola Mining Division

92I-8W
(50° 24' 15 " North Latitude, 120° 27' 05" West Longitude)

for

GRANT F. CROOKER
Box 404
Keremeos, BC
V0X 1N0
(Owner and Operator)

by

GRANT F. CROOKER, P.Geo.,
CONSULTING GEOLOGIST

September 1997

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1.0 SUMMARY AND RECOMMENDATIONS

The Deer property consists of one four-post mineral claim that straddles the boundary between the Nicola and Kamloops Mining Divisions. The legal corner post is located in the Nicola Mining Division. The property is located approximately 40 kilometres northeast of Merritt and 32 kilometres south of Kamloops in southern British Columbia. Access is via Highway 5A from Merritt or Kamloops and several logging roads provide good access to most areas of the property.

The general area of Kamloops-Ashcroft-Merritt has been the scene of intense exploration and mining activity for over 100 years. This exploration culminated with the discovery and development of the bulk tonnage porphyry copper-molybdenum deposits at Highland Valley, skarn copper deposits at Craigmont and porphyry copper-gold deposits at Iron Mask.

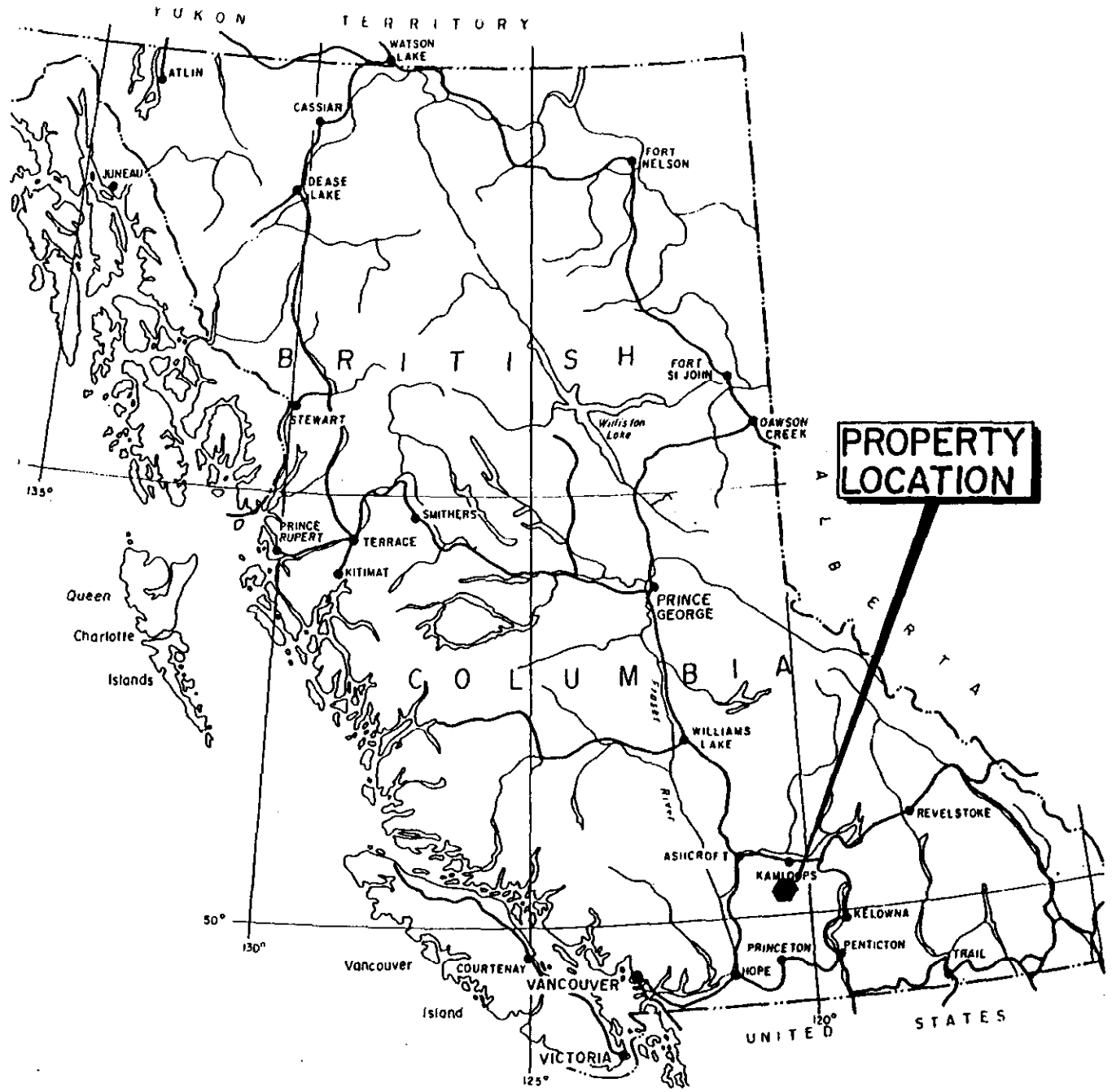
Previous work in the immediate vicinity of the Deer property has been directed to finding porphyry copper-gold or copper-molybdenum deposits. While this type of deposit remains a viable target, this exploration program was directed towards precious metals.

Precious metal occurrences are known in the vicinity of the Deer property, the most notable of which is at Stump Lake, 7 kilometres southeast of the property. The Stump Lake camp has reported production from veins of 70,395 tonnes averaging 3.74 grams per ton gold, 111.75 grams per tonne silver, 0.03 per cent copper, 1.42 per cent lead and 0.24 per cent zinc. The veins consist of polymetallic quartz-sulphide and quartz-carbonate-sulphide assemblages that are mesothermal to epithermal in character. The most abundant metallic minerals are pyrite, chalcopyrite, galena, sphalerite and tetrahedrite with small amounts of arsenopyrite and native gold. Quartz is massive to weakly banded and milky white, with metallic minerals distributed on partings and in crudely developed, sulphide rich bands or layers parallel to vein walls.

Myers and Hubner (Open File 1990-29) have tentatively classified the mineral occurrences in the Nicola Lake area into five main groups, three of which are applicable to the Deer property. These are; 1) porphyry style copper-gold and copper-molybdenum deposits, 2) precious metal bearing quartz veins, and 3) stockwork quartz-carbonate veins hosting polymetallic gold-silver-copper-lead-zinc mineralization.

The porphyry copper-gold and copper-molybdenum deposits are associated with Triassic-Jurassic and younger plutons. This class is very important because all the major Highland Valley and Iron Mask deposits are of this type.

Precious metal bearing quartz veins consist of two subclasses;. a) quartz lode deposits in low-grade metavolcaniclastic rocks that lack associated intrusive bodies as exemplified by some veins in the Stump Lake camp. Sericite alteration zones bordering the veins are schistose, indicating that syntectonic metamorphism may have generated the mineralizing fluid. The event may be of Mesozoic age (related to accretion of the Nicola island arc?) or related to Late Cretaceous to Eocene extensional faulting. b) epithermal gold-silver bearing quartz veins and alteration zones associated with Late Cretaceous to Tertiary extensional faults. An example of this is pyritic sericite-carbonate alteration zones in the Nicola Group associated with the Clapperton fault system that exhibit gold anomalies. Another example is several kilometres east of the Deer property (Sar showings) where disseminated gold is found in silicified, chalcedony and fluorite rich, shallow dipping quartz sheeting.



GRANT F. CROOKER

DEER-1 CLAIM
LOCATION MAP

N.T.S. 92I-8W — NICOLA M.D., B.C.

0 100 200 400 KM.

DATE : AUG. 1997	SCALE AS SHOWN
DRAWN BY : G.F.C.	FIGURE Nº. : 1.0

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA GEOSCIENTIST

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The property lies along the eastern margin of the Nicola horst. It is underlain by metavolcanic and metasedimentary rocks of the Nicola Group that have been intruded by coarse biotite granitoid rocks.

Attention was first drawn to the Deer Creek area by an anomalous stream sediment sample (gold, mercury, copper) from the British Columbia Regional Geochemical Survey and the proximity to the Tertiary Moore Creek fault system. A check of the literature available on the property indicated some work had been carried out in the past, directed toward porphyry copper deposits. The Deer-1 claim was then staked to cover the area.

The initial 1996 work program consisted of taking silt samples on the major drainages on the property. This program was successful, confirming the anomalous sample from the British Columbia Regional Geochemical Survey (1-022 - 580 ppb gold). Additional silt sampling was then carried out and this sampling gave anomalous gold in all major drainages. The samples were not anomalous in any other elements.

Several lines of reconnaissance soil sampling and prospecting were then carried out over the southeastern portion of the claim. Several showings containing pyrite, pyrrhotite and minor malachite were found on the property, and a broad copper soil geochemical anomaly was outlined in the same area. Copper rock geochemical values ranged up to 3020 ppm but neither the rock or soil geochemical sampling gave any anomalous gold values.

A modest exploration program is warranted on the property as the anomalous gold silt geochemical values have not been explained. The exploration program should be conducted as follows:

-conduct silt sampling on major drainages at 100 metre intervals
-continue geological mapping and prospecting

Respectfully submitted,

Grant Crooker, P.Geo.,
Consulting Geologist

2.0 INTRODUCTION

2.1 GENERAL

Field work was carried out on the Deer-1 mineral claim from August 9, 1996 to August 9, 1997. Personnel consisted of Grant F. Crooker, P. Geo., Leonard W. Saleken, P.Geo., and William G. Botel, P.Eng., consulting geologists.

The work program consisted of reconnaissance prospecting and silt, soil and rock geochemical sampling.

2.2 LOCATION AND ACCESS

The property (Figure 1.0) is located approximately 40 kilometres northeast of Merritt and 32 kilometres south of Kamloops in southern British Columbia. It lies between 50° 23' 35" and 50° 24' 55" north latitude and 120° 26' 10" and 120° 27' 55" west longitude (NTS 92I-8W).

Access is via Highway 5A from Merritt or Kamloops, turning west onto the Dropingwater Creek Forest Access Road 1 kilometre north of Stump Lake. The Dropingwater Access Road is a good gravel logging road that leads to the legal corner post of the Deer-1 mineral claim. A number of old logging roads (Figures 2.0 and 4.0) give good access to the southern portion of the claim. The northern portion of the claim does not have road access.

2.3 PHYSIOGRAPHY

The property is located in the Interior Plateau of southern British Columbia and topography is gentle to moderate. Elevation varies from 1100 to 1450 metres above sea level with Deer Creek bisecting the central portion of the property. Snowfall is not excessive and water is available from the creek year round.

Vegetation consists of forest covered areas that vary from aspen and spruce to jackpine and fir. The southern portion of the claim was selectively logged a number of years ago, while the northern portion consists of thick second growth pine that is very difficult to traverse.

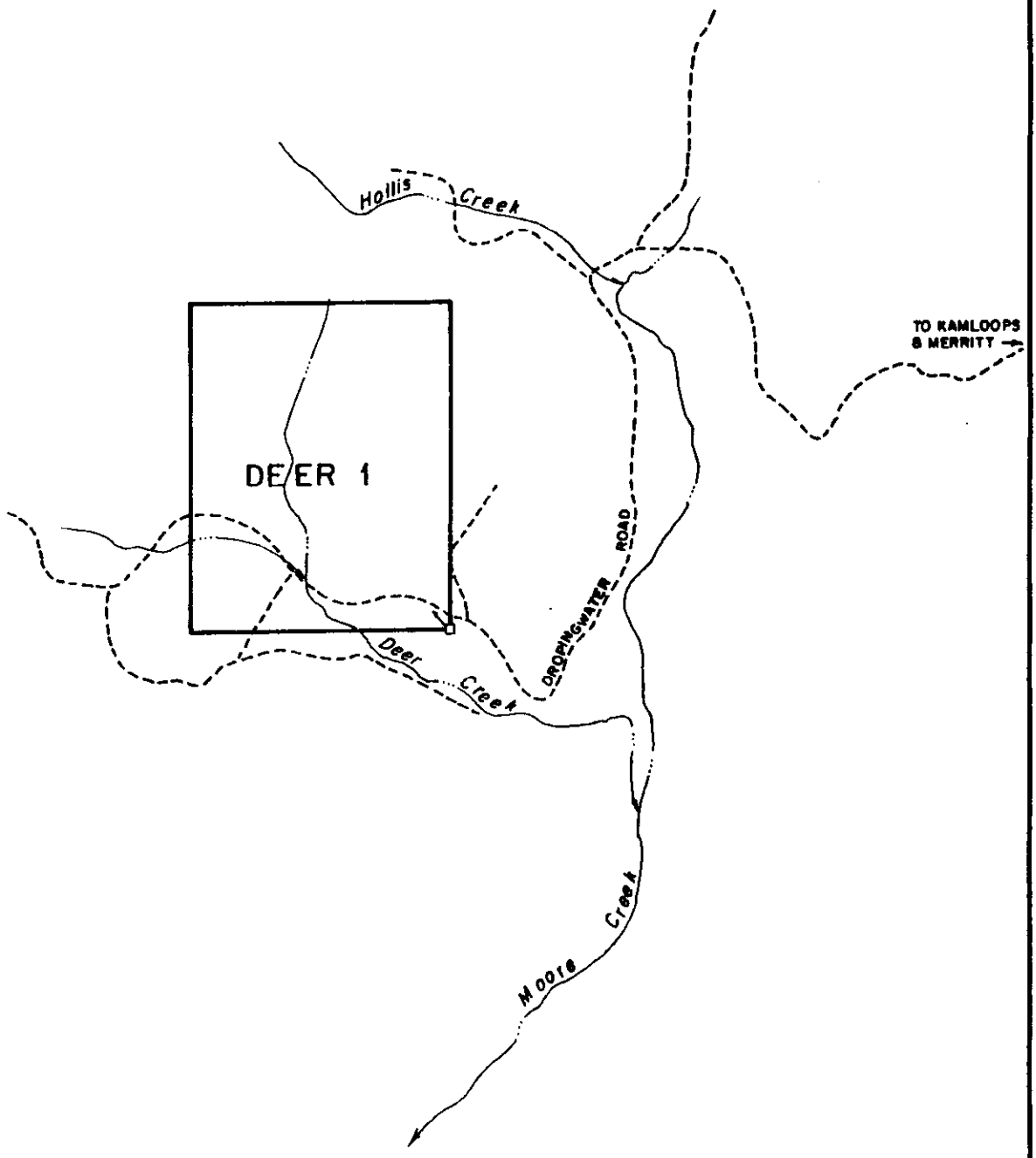
2.4 PROPERTY AND CLAIM STATUS

The Deer property (Figure 2.0) is owned by Grant F. Crooker, Box 404 Keremeos BC, VOX INO and consists of one four-post claim covering 20 units in the Nicola Mining Division.

TABLE 1.0 - CLAIM DATA

Claim	Units	Mining Division	Tenure No.	Record Date m/d/y	New Expiry Date
Deer-1	20	Nicola	349816	08/10/96	08/10/00*

* Upon acceptance of this report.



Legal corner post

Gravel road

Creek

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GRANT F. CROOKER

DEER-1 CLAIM

CLAIM MAP

N.T.S. 92I-8W NICOLA M.D., B.C.

0 1 2 3 KM.

DATE : AUG. 1997	SCALE AS SHOWN
DRAWN BY : G.F.C.	FIGURE Nº. : 2.0

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2.5 AREA AND PROPERTY HISTORY

Intense mineral exploration has been carried out in the Kamloops-Merritt area over the past 100 years. During the 1960's this activity led to the discovery and development of the porphyry copper-molybdenum deposits in the Highland Valley, the skarn copper deposits at Craigmont near Merritt, and the porphyry copper-gold deposits at Iron Mask near Kamloops.

A considerable amount of mineral exploration has been carried out in the past in the general vicinity of the Deer property as documented in the British Columbia mineral inventory and various assessment reports. Exploration in the area has been directed towards to main types of deposits, precious metal bearing mesothermal and epithermal quartz veins and porphyry style copper-gold and copper-molybdenum deposits.

The most significant mineralization found to date in the area occurs at Stump Lake, 7 kilometres southeast of the Deer property. The Stump Lake camp has reported production from veins of 70,395 tonnes averaging 3.74 grams per ton gold, 111.75 grams per tonne silver, 0.03 per cent copper, 1.42 per cent lead and 0.24 per cent zinc. The veins consist of polymetallic quartz-sulphide and quartz-carbonate-sulphide assemblages that are mesothermal to epithermal in character. The most abundant metallic minerals are pyrite, chalcopyrite, galena, sphalerite and tetrahedrite with small amounts of arsenopyrite and native gold. Quartz is massive to weakly banded and milky white, with metallic minerals distributed on partings and in crudely developed, sulphide rich bands or layers parallel to vein walls.

Two showings occurring near the Deer-1 mineral claim are documented in the British Columbia minfile. These are the Sack (92ISE166) occurring 1 to 2 kilometres east of the Deer-1 claim and the Sar (92ISE163) occurring in the vicinity of the northeast corner of the Deer-1 claim.

The Sack occurrence lies along the faulted boundary between north trending belts of the Upper Nicola Group. The high angle Quilchena fault that strikes between 010° and 030° crosses the central portion of the property. Alteration and mineralization appear to be structurally controlled by the Quilchena fault and numerous northwest trending fractures. High level quartz-chalcedony veins, argillic alteration, enhanced arsenic-mercury geochemical values and quartz-carbonate veins in brecciated volcanics are associated with the structures. The veins strike approximately 010° and dip 85° west and carry minor amounts of molybdenite, pyrrhotite and pyrite. A sample from a quartz-chalcedony-calcite vein gave 3.970 grams per tonne gold.

The Sar occurrence is located near the north trending contact between Upper Nicola group volcanic rocks to the west and pink-grey quartz diorite to the east. Several old hand trenches have exposed chalcopyrite within quartz vein material. The quartz vein appears to have been emplaced along a shear zone in gabbroic country rock.

Exploration has been carried out in the past over the southeast portion of the Deer-1 claim, formerly called the Ulla claims. During 1973, reconnaissance geological mapping and soil sampling were carried out over the area. The soil samples were analyzed for molybdenum, silver, zinc and copper. Copper gave a number of strongly anomalous values, up to a maximum of 870 ppm. The copper soil geochemical anomaly was located in the area of percussion drill holes PDH 78-1 to 78-3 (Figures 4.0 and 5.0).

During September of 1976, an induced polarization survey was carried out over the copper soil geochemical anomaly. Results of the induced polarization survey indicated that the copper soil geochemical anomaly was located along the southern flank of high chargeability values. A three hole percussion drill program was carried out during October of 1978 (Figures 4.0 and 5.0) to test the coincidental copper soil geochemical anomaly and the high chargeability anomaly.

The drill holes intersected hornfelsic sediments and light colored granite. Disseminated pyrite was noted throughout all three drill holes, with "heavy" concentrations noted in PDH 78-2 from 200 to 210 feet and in PDH 78-3 from 200 to 220 feet. No copper or molybdenum mineralization was observed in the cuttings. The cuttings from the three holes were analyzed for copper at 10 foot intervals, with the most strongly pyritized zones also analyzed for gold and silver.

The assay results did not show any anomalous copper values. However the interval from 190 to 200 feet in PDH 78-1 gave 0.030 ounces per ton gold and 0.10 ounces per ton silver. None of the other intervals analyzed for gold or silver gave anomalous values.

Attention was first drawn to the area by an anomalous stream sediment sample taken by the British Columbia Regional Geochemical Survey (NTS 92I Ashcroft). Sample 3102 gave a moderately anomalous gold value of 14 ppb, with strongly anomalous mercury and copper values.

3.0 EXPLORATION PROCEDURE

The program on the Deer-1 mineral claim consisted of silt sampling the major drainages and carrying out reconnaissance prospecting and soil and rock geochemical sampling in the vicinity of the 1978 percussion drill program.

3.1 GRID PARAMETERS

-survey station spacing 50 metres
-survey total -2.4 kilometres
-declination 21°

3.2 GEOCHEMICAL SURVEY PARAMETERS

-survey sample spacing 50 metres
-survey totals - 45 soil samples
    -12 silt samples
    -7 rock samples
-45 soil samples analyzed by 32 element ICP and for gold (30 gram pulp)
-12 silt samples analyzed by 32 element ICP and for gold (10 and 30 gram pulp)
-7 rock samples analyzed by 32 element ICP and for gold (30 gram pulp)
-soil sample depth 10 to 20 centimetres
-soil samples taken from brown or orange B horizon
-silt samples collected from active portion of stream
-silt samples sieved to -20 mesh in field
-4 silt samples, +20 mesh fraction also analyzed

All samples were sent to Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver, BC, V7J 2C1 for analysis. Laboratory technique for soil and silt samples consisted of preparing samples by drying at 95°C and sieving to minus 80 mesh. Rock samples were crushed and split, with one split ring ground to minus 150 mesh. A 32 element ICP and gold analysis (fire assay, atomic adsorption finish) were then carried out on all samples.

The rock geochemistry is plotted on Figure 4.0 and the silt and soil geochemistry on Figure 5.0. The certificates of analysis are listed in Appendix I.

4.0 GEOLOGY AND MINERALIZATION

4.1 GEOLOGY

The Deer-1 mineral claim lies within the Intermontane Belt of the Canadian Cordillera and is part of *Quesnellia. The Nicola horst (Figure 3.0) is the most important feature in the area and the Deer-1* mineral claim lies along the eastern margin of the horst. The horst is actually a complex of Nicola Group rocks, sedimentary rocks of unknown age, tonalite and tonalite porphyry, all strongly deformed, metamorphosed to low amphibolite facies and intruded by granitoid rocks ranging in age from at least Early Jurassic to Paleocene.

Fault systems limit the horst on the east (Clapperton) and west (Quilchena-Moore Creek). These boundary faults cut the penetrative structural trends, as well as the Paleocene Rocky Gulch granodiorite and are probably Eocene as they are at least partly overlapped by Miocene Chilcotin basalt. The boundary faults are part of a regional extensional system that in part divides facies of the Nicola Group and has localized Eocene sedimentation.

There are two sets of major faults in the region. Northwesterly striking, at least partly contractional features that are probably Mesozoic in age, and northerly striking Tertiary extensional faults. The Moore Creek fault is very important as it may provide a conduit for mineralizing solutions in the Deer Creek area.

4.2 CLAIM GEOLOGY

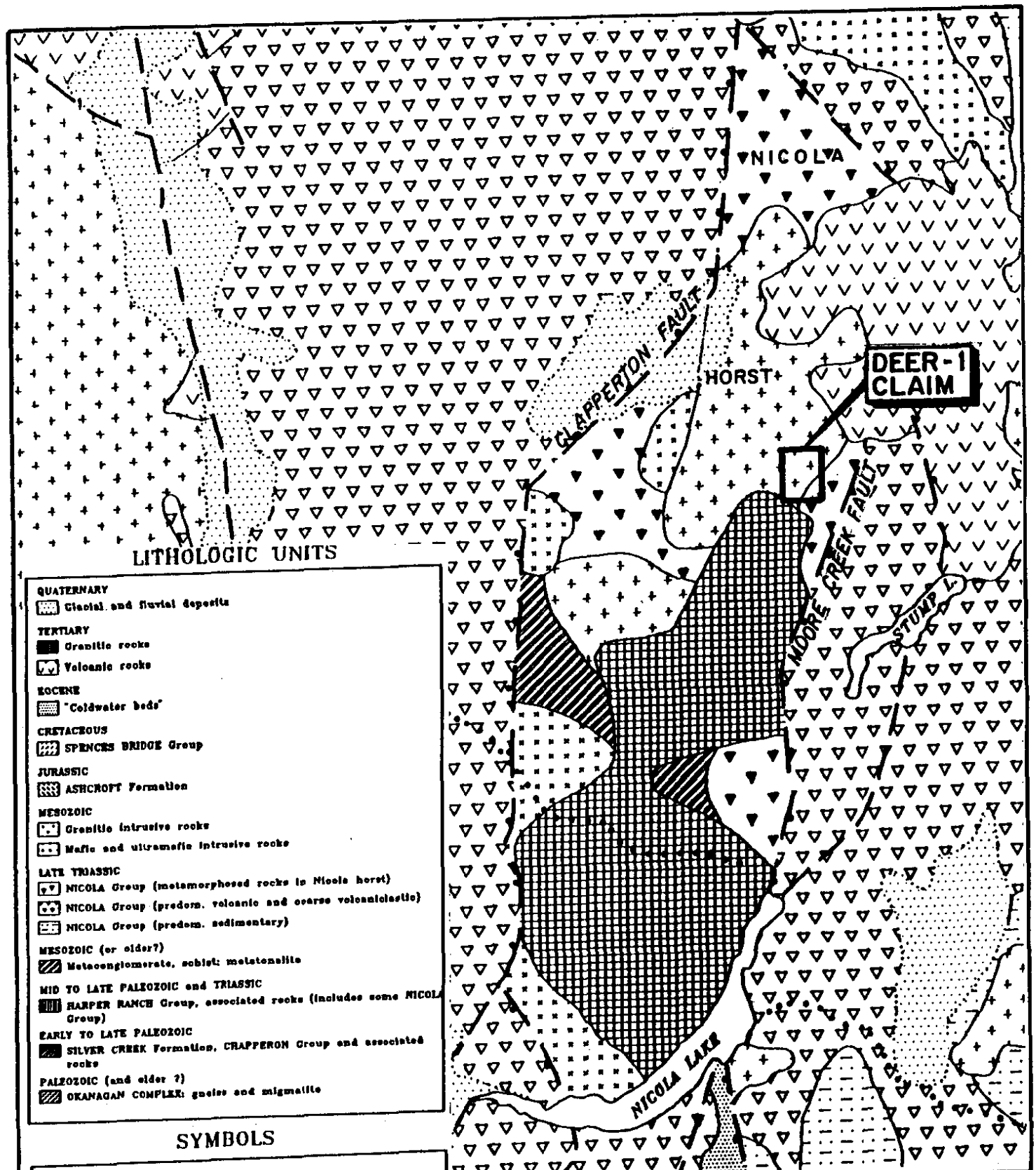
Reconnaissance geological mapping (Figure 4.0) was carried out in the southeastern portion of the Deer-1 claim. Most of this area is covered by thick accumulations of overburden although a few outcrops were noted. The southeastern portion of the claim near the legal corner post is underlain by dark grey to green metavolcanic and metasedimentary rocks of the Late Triassic Nicola Group. These rocks are typically metamorphosed to upper greenschist-low amphibolite facies.

The Nicola Group rocks have been intruded by Late Triassic and/or older plutonic rocks varying in composition from granite to granodiorite. These plutonic rocks are generally described as coarse biotite granitoid rocks.

4.3 MINERALIZATION

Seven rock samples were collected from the property (Figure 4.0) and sent for analysis. A float sample (Deer 03) of metasediment with pyrite and malachite gave the strongest geochemical response of 3020 ppm copper and 80 ppm molybdenum. Two other samples (Deer 04 & 05) of metasediment containing varying concentrations of pyrite and pyrrhotite gave weakly anomalous copper values of 479 and 2120 ppm respectively. Two grab samples (Deer 01 & 02) of quartz vein float did not give any anomalous geochemical response.

None of the samples were anomalous for gold, with the strongest response for silver 4.4 ppm in sample Deer 03.



LITHOLOGIC UNITS

QUATERNARY
- Glacial and fluvial deposits

TERTIARY
- Granitic rocks
- Volcanic rocks

EOCENE
- "Coldwater beds"

CRETACEOUS
- SPENCES BRIDGE Group

JURASSIC
- ASHCROFT Formation

MESOZOIC
- Granitic intrusive rocks
- Mafic and ultramafic intrusive rocks

LATE TRIASSIC
- NICOLA Group (metamorphosed rocks in Nicola horst)
- NICOLA Group (predom. volcanic and coarse volcaniclastic)
- NICOLA Group (predom. sedimentary)

MESOZOIC (or older?)
- Metaconglomerate, schist; metatonalite

MID TO LATE PALEOZOIC and TRIASSIC
- HARPER RANCH Group, associated rocks (includes some NICOLA Group)

EARLY TO LATE PALEOZOIC
- SILVER CREEK Formation, CRAPPERON Group and associated rocks

PALEOZOIC (and older ?)
- OKANAGAN COMPLEX: gneiss and migmatite

SYMBOLS

- UNIT CONTACT
- UNIT CONTACT (INFERRED UNDER QUATERNARY)
- QUATERNARY BOUNDARY
- LAKE BOUNDARY
- FAULT
- DIP-SLIP FAULT (DOTS ON DOWN-THROWN SIDE)
- THRUST FAULT
- LITHOPROBE TRANSECT LINE

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G.F. CROOKER GEOSCIENTIST

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GRANT F. CROOKER

DEER-1 CLAIM

REGIONAL GEOLOGY

N.T.S. 92I-8W NICOLA M.D., B.C.

0 5 10 15 KM.

DATE : AUG. 1997	SCALE AS SHOWN
DRAWN BY : G.F.C.	FIGURE Nº. : 3.0

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DEER-1 CLAIM

Deer Creek

West Fork Deer Creek

South Fork Deer Creek

DDH

PDH 78-1

PDH 78-2

PDH 78-3

D-1 (63,3,(0.2) G

D-2 (18,(1,(0.2) G

D-3 (3020,80,4.4) F

D-4 (479,5,0.4) F

D-5 (2120,78,2.4) G

D-6 (177,9,0.2) G

D-7 (94,5,(0.2) G

2	Granodiorite, granite	py	Pyrite
1	Metasediments & metavolcanics	mal	Malachite
		po	Pyrrhotite
	Outcrop		
	Geological contact		
	Vein		
△D-1(63,3,(0.2) G	Rock sample & Nº. (Cu, Mo, Ag in ppm) G = Grab F = Float		
O	Silt sample location (● ≥15ppb Au)		
O	Drill hole location		
	Legal corner post		
	Road		
	Creek		
	Swamp		

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA G. F. CROOKER GEOSCIENTIST

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DEER-1 CLAIM

CLAIM GEOLOGY

N.T.S. 92 I-8W NICOLA M.D., B.C.

0 100 300 600 METRES

DATE : AUG. 1997	SCALE 1:10,000
DRAWN BY : G.R.C.	FIGURE Nº. 4.0

5.0 GEOCHEMISTRY

5.1 SILT GEOCHEMISTRY

Twelve silt samples (Figure 5.0) were collected from the major drainages on the property and analyzed for gold and 32 element ICP. Table 2.0 lists the geochemical analysis of the samples.

TABLE 2.0 - SILT SAMPLE GEOCHEMICAL ANALYSIS

Sample No.	Fraction	Au ppb 10 gram	Au ppb 30 gram	Ag ppm	As ppm	Cu ppm	Hg ppb	Pb ppm
1-019	-20	<5	<5	<0.2	2	13	<10	<2
1-020	-20	<5	<5	<0.2	<2	17	<10	<2
1-021	-20	<5	**75**	<0.2	<2	13	<10	<2
1-022	-20	**580**	**330**	<0.2	<2	11	<10	<2
1-185	-20	<5	<5	<0.2	2	21	10	2
1-186	+20	<5	-	<0.2	<2	13	<10	<2
1-187	-20	<5	**175**	<0.2	2	13	<10	<2
1-188	+20	<5	-	<0.2	<2	22	<10	2
1-189	-20	<5	<5	<0.2	<2	11	<10	<2
1-190	+20	<5	-	<2	<2	17	<10	<2
1-191	-20	<5	**300**	<0.2	<2	30	<10	2
1-192	+20	<5	-	<0.2	<2	30	<10	<2

Four of the samples were anomalous for gold with values ranging up to 580 ppb. No other elements were anomalous.

Deer Creek; Sample 1-022 gave a very strong geochemical response for gold with values of 580 (10 gram pulp) and 330 (30 gram pulp) ppb. However, samples taken above and below 1-022 were not anomalous for gold.

West Fork Deer Creek; Two samples (1-021 & 1-187) taken from the lower portion of this creek gave moderate to strong geochemical responses for gold of 75 and 175 ppb respectively. Sample (1-019) taken 600 metres upstream from sample 1-021 was not anomalous for gold.

South Fork Deer Creek; *One sample (1-020) taken from this creek did not give an anomalous* response for gold.

Unnamed Creek; One sample (1-191) taken from this small creek gave a strongly anomalous response for gold of 300 ppb.

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DEER-1 CLAIM

Deer Creek

185/-20,<5,<5
186/+20,<5,-

019/-20,<5,<5

West Fork Deer Creek

021/-20,<5,75

022/-20,580,330

187/-20,<5,175
188/420,<5,-

189/-20,<5,<5
190/+20,<5,-

191/-20,<5,300
192/+20,<5,-

D Road 1000 SW

DW 1000

Cu-2
Ag-1

DDH

PDH 78-1

PDH 78-2

PDH 78-3

Cu-1

DW 00

020/-20,<5,<5

1000 NW

00 NW

South Fork Deer Creek

368 / .4 — Soil sample — Cu ppm / Ag ppm (Ag values <.2 ppm are shown as -)

Soil anomalous Cu >100 ppm

Soil anomalous Ag >.4 ppm

O187/-20,<5,175 — Silt sample & Nº. / fraction, Au: 10grams, Au: 30grams

Anomalous silt sample >15ppb Au

Drill hole location

Legal corner post

Road

Creek

Swamp

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — G.F. CROOKER

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GRANT F. CROOKER

DEER-1 CLAIM
SILT (Au) & SOIL (Cu, Ag) GEOCHEMISTRY

N.T.S. 92I-8W — NICOLA M.D., B.C.

0 100 300 400 METRES

DATE: AUG. 1997	SCALE 1:10,000
DRAWN BY: G.R.C.	FIGURE Nº.: 5.0

5.2 SOIL GEOCHEMISTRY

5.21 Geochemical Anomalies

Background and anomalous values are listed in Table 3.0 and copper and silver values were plotted on Figure 5.0.

TABLE 3.0 - ANOMALOUS SOIL GEOCHEMICAL VALUES

ELEMENT	RANGE	BACKGROUND	ANOMALOUS
Au ppb	<5	5	-
Ag ppm	0.2-1.2	0.2	0.4
Cu ppm	6-368	90	>100

Gold

Gold values were all less than 5 ppb and none were anomalous

Silver

Silver values ranged from <2 to 1.2 ppm with background established at 0.2 ppm and anomalous values 0.4 ppm and greater. One small, weak, two station silver anomaly (Ag-1, Figure 5.0) was outlined by the survey. The anomaly occurs coincidentally with copper anomaly Cu-2 and no cause is apparent for the anomaly.

Copper

Copper values ranged from 6 to 368 ppm with the background established at 90 ppm and anomalous values 100 ppm and greater. Two, weak to moderate copper soil geochemical anomalies (Cu-1 & Cu-2, Figure 5.0) were outlined by the survey.

Copper anomaly Cu-1 is a weak to moderate anomaly approximately 250 to 350 metres wide by 200 metres long. Several weakly anomalous silver values occur within the anomaly. The three rock samples (Deer 03, 04 & 05) anomalous in copper and molybdenum were taken immediately southeast of the anomaly.

Copper anomaly Cu-2 is a small, moderate, two station anomaly occurring coincidentally with silver anomaly Ag-1.

6.0 CONCLUSIONS

6.1 A number of positive conclusions can be drawn from the present exploration program on the Deer property property. A favorable geological environment exists for three styles of mineralization. These are 1) porphyry style copper-gold deposits, 2) precious metal bearing mesothermal and epithermal quartz veins, and 3) quartz veins and/or quartz-carbonate stockwork veins hosting polymetallic gold-silver-copper-lead-zinc mineralization.

6.2 The property lies within the Nicola horst. The southeastern portion of the property is underlain by Late Triassic Nicola Group metavolcanic and metasedimentary rocks. Late Triassic or older granitoid rocks of the Nicola horst underlay the remainder of the claim. Northerly striking Tertiary extensional faults appear to be the most important structures as they may provide a conduit for mineralizing solutions. The Quilchena-Moore Creek Clapperton fault system, immediately east of the claim is the most important of these.

6.3 The 1996 silt geochemical program was successful with four samples giving moderate to strong gold geochemical responses. Gold values ranged up to 580 ppb, but none of the samples were anomalous in other elements.

6.4 Several small showings with pyrite, pyrrhotite and minor malachite were found, with the highest copper value was ppm. None of the samples were anomalous for gold.

6.5 The soil geochemical survey did not give any anomalous gold values. However a weak to moderate copper soil geochemical anomaly was outlined in the general vicinity of the anomalous rock samples.

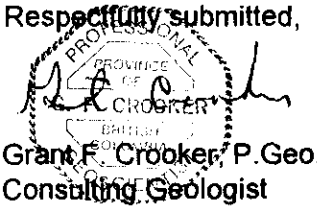
6.6 The strongly anomalous gold silt anomalies have not been explained.

7.0 RECOMMENDATIONS

7.1 The modest exploration program is warranted on the property as the anomalous gold silt geochemical values have not been explained. The exploration program should be conducted as follows:

-conduct silt sampling on major drainages at 100 metre intervals
-continue geological mapping and prospecting

Respectfully submitted,



Grant F. Crooker, P.Geo.,
Consulting Geologist

8.0 REFERENCES

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Phelps, G.B., (1973); Progress Report on the Ulla Claim Group, Nicola and Kamloops Mining Divisions, for Envoy Resources. AR# 4322.

White, G.E., (1976); Geophysical Report on an Induced Polarization Survey on the Ulla Claims for Envoy Resources Ltd. AR# 6050.

White, G.E., (1981); Geochemical Report on the Lance 1-6, 8-11 Claims, Kamloops and Nicola Mining Divisions for Dynamic Oil Ltd. AR# 9883.

9.0 CERTIFICATE OF QUALIFICATIONS

I, Grant F. Crooker, of Upper Bench Road, PO Box 404, Keremeos, British Columbia, Canada, VOX 1NO do certify that:

I am a Consulting Geologist registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (Registration No.18961);

I am a Fellow of the Geological Association of Canada (Registration No.3758) and I am a Member of the Canadian Institute of Mining and Metallurgy and Petroleum;

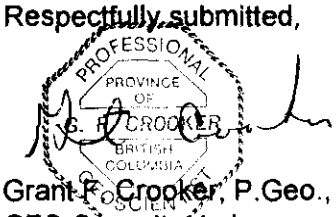
I am a graduate (1972) of the University of British Columbia with a Bachelor of Science degree (B.Sc.) from the Faculty of Science having completed the Major program in Geology;

I have practiced my profession as a geologist for over 20 years, and since 1980, I have been practicing as a consulting geologist and, in this capacity, have examined and reported on numerous mineral properties in North and South America;

I have based this report on field examinations within the area of interest and on a review of the technical and geological data

I am the owner of the Deer-1 mineral claim;

Respectfully submitted,



Nov 1 / 97

Grant F. Crooker, P.Geo.,
GFC Consultants Inc

APPENDIX I

CERTIFICATES OF ANALYSIS

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.
VANCOUVER, BC
V6P 5M9

A9737112

Comments: ATTN: LEONARD W. SALEKEN

CERTIFICATE A9737112

(LOY) - GEOTEC CONSULTANTS LTD.

Project: DEER
P.O. # :

Samples submitted to our lab in Vancouver, BC.
This report was printed on 18-AUG-97.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	7	Geochem ring to approx 150 mesh
226	7	0-3 Kg crush and split
3202	7	Rock - save entire reject
229	7	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	7	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	7	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	7	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	7	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	7	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	7	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	7	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	7	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	7	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	7	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	7	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	7	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	7	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	7	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	7	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	7	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	7	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	7	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	7	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	7	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	7	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	7	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	7	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	7	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	7	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	7	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	7	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	7	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	7	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	7	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	7	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	7	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	7	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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To: GEOTEC CONSULTANTS LTD.

6978 LABURNUM ST.
VANCOUVER, BC
V6P 5M9

Project : DEER
Comments: ATTN: LEONARD W. SALEKEN

Page Number :1-A
Total Pages :1
Certificate Date: 18-AUG-97
Invoice No. :I9737112
P.O. Number :
Account :LOY

CERTIFICATE OF ANALYSIS A9737112

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
DEER-01	205	226	< 5	< 0.2	0.09	< 2	< 10	< 0.5	< 2	0.03	< 0.5	8	151	63	0.48	< 10	< 1	0.05	< 10	0.01	50
DEER-02	205	226	< 5	< 0.2	0.12	< 2	< 10	< 0.5	< 2	0.01	< 0.5	< 1	109	10	0.39	< 10	< 1	0.07	< 10	< 0.01	30
DEER-03	205	226	< 5	4.6	0.60	< 2	< 10	0.5	< 2	1.29	2.0	30	32	3010	2.61	< 10	< 1	0.09	< 10	0.41	205
DEER-04	205	226	< 5	0.6	0.51	< 2	60	< 0.5	2	0.64	< 0.5	27	36	479	3.13	< 10	< 1	0.37	< 10	0.57	98
DEER-05	205	226	< 5	2.4	0.98	< 2	20	< 0.5	< 2	1.01	0.5	27	66	2120	3.20	< 10	< 1	0.17	< 10	0.64	205
DEER-06	205	226	< 5	0.2	0.95	< 2	40	< 0.5	< 2	0.90	< 0.5	13	48	177	2.46	< 10	< 1	0.29	< 10	0.64	270
DEER-07	205	226	< 5	< 0.2	1.10	< 2	70	0.5	< 2	0.86	< 0.5	10	46	94	2.08	< 10	< 1	0.51	< 10	0.82	270

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SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
DEER-01	205	226	3	< 0.01	4	40	< 2	< 2	< 1	1	< 0.01	< 10	< 10	2	< 10	10
DEER-02	205	226	< 1	0.05	2	10	< 2	< 2	< 1	3	< 0.01	< 10	< 10	3	< 10	36
DEER-03	205	226	60	0.07	8	1660	< 2	< 2	4	39	0.06	< 10	< 10	37	< 10	92
DEER-04	205	226	5	0.05	11	1200	< 2	< 2	3	28	0.12	< 10	< 10	39	< 10	22
DEER-05	205	226	78	0.06	10	1210	< 2	< 2	5	32	0.07	< 10	< 10	48	< 10	42
DEER-06	205	226	9	0.08	8	1370	< 2	< 2	5	28	0.10	< 10	< 10	65	< 10	28
DEER-07	205	226	5	0.06	7	1120	< 2	< 2	4	36	0.08	< 10	< 10	64	< 10	26

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Project : DEER
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Total Pages :2
Certificate Date: 18-AUG-97
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Account :LOY

CERTIFICATE OF ANALYSIS A9737111

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
D ROAD 1+00SW	201	229	< 5	< 0.2	1.69	< 2	70	< 0.5	< 2	0.41	< 0.5	8	43	45	2.46	< 10	< 1	0.19	< 10	0.60	295
D ROAD 2+00SW	201	229	< 5	< 0.2	2.01	< 2	220	< 0.5	< 2	0.36	< 0.5	12	30	33	1.94	< 10	< 1	0.17	< 10	0.41	553
D ROAD 3+00SW	201	229	< 5	< 0.2	1.40	< 2	100	< 0.5	< 2	0.51	< 0.5	10	30	106	2.07	< 10	< 1	0.39	< 10	0.84	625
D ROAD 4+00SW	201	229	< 5	< 0.2	1.29	< 2	210	< 0.5	< 2	1.00	< 0.5	11	17	27	1.58	< 10	< 1	0.30	< 10	0.32	885
D ROAD 5+00SW	201	229	< 5	0.2	2.27	< 2	80	0.5	< 2	0.43	< 0.5	5	15	25	1.01	< 10	< 1	0.17	< 10	0.26	335
D NW 1+00	201	229	< 5	0.2	1.90	< 2	190	< 0.5	< 2	0.48	< 0.5	13	22	59	1.97	< 10	< 1	0.27	< 10	0.48	490
D NW 1+50	201	229	< 5	0.2	1.55	< 2	170	< 0.5	< 2	0.45	< 0.5	12	24	62	1.99	< 10	< 1	0.33	< 10	0.46	570
D NW 2+00	201	229	< 5	0.2	2.17	< 2	170	0.5	< 2	0.35	< 0.5	19	40	188	3.01	< 10	< 1	0.59	< 10	0.81	535
D NW 2+50	201	229	< 5	0.2	2.27	< 2	210	< 0.5	< 2	0.43	< 0.5	15	25	75	2.25	< 10	< 1	0.32	< 10	0.50	685
D NW 3+00	201	229	< 5	< 0.2	1.29	< 2	90	< 0.5	< 2	0.30	< 0.5	7	27	24	1.77	< 10	< 1	0.19	< 10	0.36	285
D NW 3+50	201	229	< 5	0.2	2.31	< 2	140	< 0.5	< 2	0.49	< 0.5	21	49	347	3.49	< 10	< 1	0.79	< 10	1.13	360
D NW 4+00	201	229	< 5	0.2	2.50	< 2	180	< 0.5	< 2	0.31	< 0.5	16	28	97	2.38	< 10	< 1	0.24	< 10	0.53	260
D NW 4+50	201	229	< 5	0.2	2.49	< 2	180	< 0.5	< 2	0.35	< 0.5	17	29	119	2.46	< 10	< 1	0.30	< 10	0.56	380
D NW 5+00	201	229	< 5	< 0.2	1.32	< 2	80	< 0.5	< 2	0.36	< 0.5	8	17	35	1.46	< 10	< 1	0.14	< 10	0.26	230
D NW 5+63	201	229	< 5	0.2	1.87	< 2	130	< 0.5	< 2	0.26	< 0.5	13	27	78	2.16	< 10	< 1	0.32	< 10	0.58	280
D NW 6+00	201	229	< 5	< 0.2	1.91	< 2	490	0.5	< 2	0.74	0.5	16	11	58	1.83	< 10	< 1	0.13	< 10	0.27	1450
D NW 6+50	201	229	< 5	< 0.2	3.68	< 2	60	< 0.5	< 2	0.20	< 0.5	9	20	38	2.00	< 10	< 1	0.27	< 10	0.56	360
D NW 7+00	201	229	< 5	0.2	1.74	< 2	160	< 0.5	2	0.22	< 0.5	4	10	13	1.28	< 10	< 1	0.06	< 10	0.13	215
D NW 7+50	201	229	< 5	< 0.2	0.97	< 2	110	< 0.5	< 2	0.25	< 0.5	6	20	12	1.54	< 10	< 1	0.17	< 10	0.27	490
D NW 8+00	201	229	< 5	< 0.2	0.90	< 2	90	< 0.5	< 2	0.21	< 0.5	4	19	6	1.33	< 10	< 1	0.14	< 10	0.26	340
D NW 8+60	201	229	< 5	0.2	2.80	< 2	470	0.5	< 2	0.23	< 0.5	19	40	117	3.53	< 10	< 1	0.66	< 10	1.12	770
D NW 9+00	201	229	< 5	< 0.2	2.62	< 2	520	0.5	< 2	0.25	1.0	12	31	90	2.86	< 10	< 1	0.45	< 10	2.00	975
D NW 9+50	201	229	< 5	< 0.2	1.43	< 2	310	< 0.5	< 2	0.23	0.5	5	10	11	1.16	< 10	< 1	0.11	< 10	0.26	935
D NW 10+00	201	229	< 5	< 0.2	1.14	< 2	80	< 0.5	< 2	0.21	< 0.5	5	21	11	1.43	< 10	< 1	0.13	< 10	0.25	285
DW 0000	201	229	< 5	< 0.2	2.08	< 2	180	< 0.5	< 2	0.32	< 0.5	12	24	56	2.04	< 10	< 1	0.26	< 10	0.47	500
DW 0050	201	229	< 5	0.4	2.26	< 2	130	< 0.5	< 2	0.76	< 0.5	14	35	307	2.83	< 10	< 1	0.37	< 10	0.75	250
DW 0100	201	229	< 5	0.3	2.24	< 2	140	< 0.5	< 2	0.40	< 0.5	13	28	93	2.45	< 10	< 1	0.37	< 10	0.61	345
DW 0150	201	229	< 5	0.4	2.58	< 2	210	0.5	< 2	0.28	< 0.5	20	34	156	2.80	< 10	< 1	0.38	< 10	0.67	285
DW 0200	201	229	< 5	0.3	2.56	< 2	180	< 0.5	< 2	0.26	< 0.5	16	32	137	2.70	< 10	< 1	0.37	< 10	0.66	185
DW 0250	201	229	< 5	0.3	2.68	< 2	180	< 0.5	< 2	0.33	< 0.5	18	32	166	2.71	< 10	< 1	0.40	< 10	0.69	195
DW 0300	201	229	< 5	0.4	2.16	< 2	130	< 0.5	< 2	0.43	< 0.5	16	32	136	2.62	< 10	< 1	0.34	< 10	0.61	245
DW 0350	201	229	< 5	< 0.2	2.11	< 2	120	< 0.5	< 2	0.37	< 0.5	15	28	134	2.68	< 10	< 1	0.42	< 10	0.69	195
DW 0400	201	229	< 5	0.3	1.51	< 2	120	< 0.5	< 2	0.27	< 0.5	17	35	145	2.61	< 10	< 1	0.37	< 10	0.61	365
DW 0450	201	229	< 5	0.3	1.82	< 2	320	< 0.5	< 2	0.51	< 0.5	14	22	56	1.93	< 10	< 1	0.20	< 10	0.43	690
DW 0500	201	229	< 5	< 0.2	2.62	< 2	110	0.5	< 2	0.58	0.5	20	30	195	2.53	< 10	< 1	0.18	< 10	0.59	1065
DW 0550	201	229	< 5	0.2	2.21	< 2	140	< 0.5	< 2	0.22	< 0.5	15	32	85	1.90	< 10	< 1	0.15	< 10	0.45	265
DW 0600	201	229	< 5	0.3	3.03	< 2	250	< 0.5	< 2	0.20	< 0.5	18	26	127	2.20	< 10	< 1	0.19	< 10	0.51	190
DW 0650	201	229	< 5	0.3	2.29	< 2	160	< 0.5	< 2	0.19	< 0.5	16	27	91	2.17	< 10	< 1	0.21	< 10	0.45	190
DW 0700	201	229	< 5	< 0.2	0.95	< 2	70	< 0.5	< 2	0.42	< 0.5	5	22	24	1.48	< 10	< 1	0.11	< 10	0.27	160
DW 0750	201	229	< 5	1.2	1.99	< 2	150	1.0	< 2	1.15	< 0.5	13	32	368	2.45	< 10	< 1	0.15	20	0.59	500

CERTIFICATION: _____

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Project : DEER
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Page Number :1-B
Total Pages :2
Certificate Date: 18-AUG-97
Invoice No. :19737111
P.O. Number :
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CERTIFICATE OF ANALYSIS A9737111

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
D ROAD 1+00SW	201	229	1	0.01	21	630	6	< 2	5	35	0.14	< 10	< 10	59	< 10	56
D ROAD 2+00SW	201	229	1	0.03	21	2220	6	< 2	2	35	0.09	< 10	< 10	35	< 10	132
D ROAD 3+00SW	201	229	5	0.02	26	1000	4	< 2	5	37	0.11	< 10	< 10	62	10	88
D ROAD 4+00SW	201	229	1	0.02	17	1000	4	< 2	1	58	0.07	< 10	< 10	26	< 10	88
D ROAD 5+00SW	201	229	1	0.01	7	450	3	< 2	1	30	0.05	< 10	< 10	37	< 10	50
D NW 1+00	201	229	3	0.02	19	670	4	< 2	2	32	0.09	< 10	< 10	34	< 10	80
D NW 1+50	201	229	2	0.02	15	610	3	< 2	1	38	0.09	< 10	< 10	36	< 10	58
D NW 2+00	201	229	6	0.01	24	300	3	< 2	4	32	0.13	< 10	< 10	56	< 10	72
D NW 2+50	201	229	4	0.02	18	310	3	< 2	3	34	0.12	< 10	< 10	40	< 10	82
D NW 3+00	201	229	1	0.01	10	300	2	< 2	3	27	0.12	< 10	< 10	41	< 10	66
D NW 3+50	201	229	5	0.02	28	490	< 2	< 2	4	41	0.17	< 10	< 10	71	< 10	58
D NW 4+00	201	229	5	0.03	23	520	3	< 2	2	32	0.13	< 10	< 10	44	< 10	90
D NW 4+50	201	229	8	0.03	22	820	3	< 2	3	38	0.11	< 10	< 10	45	< 10	110
D NW 5+00	201	229	1	0.01	14	240	< 2	< 2	1	32	0.07	< 10	< 10	27	< 10	36
D NW 5+63	201	229	2	0.02	19	330	3	< 2	2	26	0.10	< 10	< 10	40	< 10	72
D NW 6+00	201	229	2	0.01	26	3530	3	< 2	2	125	0.04	< 10	< 10	21	< 10	406
D NW 6+50	201	229	4	0.01	8	160	< 2	< 2	1	18	0.11	< 10	< 10	44	< 10	88
D NW 7+00	201	229	< 2	0.01	8	1060	5	< 2	2	24	0.06	< 10	< 10	21	< 10	80
D NW 7+50	201	229	< 1	0.01	9	390	3	< 2	1	20	0.09	< 10	< 10	33	< 10	44
D NW 8+00	201	229	1	0.01	7	300	3	< 2	1	20	0.09	< 10	< 10	28	< 10	40
D NW 8+60	201	229	3	0.01	36	450	3	< 2	3	30	0.14	< 10	< 10	70	< 10	170
D NW 9+00	201	229	1	0.01	35	390	6	< 2	3	27	0.12	< 10	< 10	55	< 10	280
D NW 9+50	201	229	1	0.01	16	920	6	< 2	1	35	0.07	< 10	< 10	26	< 10	150
D NW 10+00	201	229	< 1	0.01	14	370	3	< 2	1	23	0.09	< 10	< 10	31	< 10	58
DW 0000	201	229	1	0.02	20	610	< 3	< 2	2	26	0.10	< 10	< 10	35	< 10	92
DW 0050	201	229	6	0.02	22	350	3	< 3	4	34	0.13	< 10	< 10	55	< 10	68
DW 0100	201	229	3	0.03	26	370	< 3	< 3	3	32	0.14	< 10	< 10	45	< 10	76
DW 0150	201	229	4	0.03	25	780	< 3	< 3	4	30	0.13	< 10	< 10	50	< 10	76
DW 0200	201	229	5	0.03	24	440	< 3	< 3	3	31	0.13	< 10	< 10	49	< 10	82
DW 0250	201	229	4	0.03	29	450	3	< 3	3	34	0.14	< 10	< 10	46	< 10	80
DW 0300	201	229	6	0.03	22	460	< 3	< 3	3	37	0.13	< 10	< 10	50	< 10	58
DW 0350	201	229	4	0.03	23	370	3	< 3	3	35	0.14	< 10	< 10	54	< 10	58
DW 0400	201	229	5	0.01	20	490	< 3	< 3	3	26	0.10	< 10	< 10	50	< 10	50
DW 0450	201	229	1	0.01	18	960	3	< 3	1	38	0.08	< 10	< 10	32	< 10	104
DW 0500	201	229	3	0.02	38	380	3	< 3	5	36	0.08	< 10	30	46	< 10	110
DW 0550	201	229	2	0.02	21	650	3	< 3	1	33	0.09	< 10	< 10	33	< 10	92
DW 0600	201	229	3	0.02	30	810	< 3	< 3	2	25	0.11	< 10	< 10	39	< 10	72
DW 0650	201	229	3	0.02	22	630	< 3	< 3	1	32	0.11	< 10	< 10	40	< 10	62
DW 0700	201	229	< 1	0.01	9	370	< 3	< 3	1	27	0.08	< 10	< 10	33	< 10	28
DW 0750	201	229	1	0.03	69	540	4	3	5	66	0.07	< 10	110	46	< 10	72

CERTIFICATION: _____

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.
6976 LABURNUM ST.
VANCOUVER, BC
V6P 5M9

Project : DEER
Comments: ATTN: LEONARD W. SALEKEN

Page Number :2-A
Total Pages :2
Certificate Date: 18-AUG-97
Invoice No. :19737111
P.O. Number :
Account :LOY

CERTIFICATE OF ANALYSIS A9737111

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
DN 0800	201 229	< 5	0.6	2.29	< 2	140	0.5	< 2	0.70	< 0.5	13	33	203	2.66	< 10	< 1	0.24	10	0.61	515
DN 0850	201 229	< 5	< 0.2	1.63	< 2	160	< 0.5	< 2	0.21	< 0.5	10	23	33	1.92	< 10	< 1	0.16	< 10	0.38	190
DN 0900	201 229	< 5	< 0.2	2.16	< 2	130	< 0.5	< 2	0.28	< 0.5	9	24	21	2.08	< 10	< 1	0.07	< 10	0.40	290
DN 0950	201 229	< 5	< 0.2	1.65	< 2	110	< 0.5	< 2	0.20	< 0.5	6	18	15	1.66	< 10	< 1	0.06	< 10	0.27	295
DN 1000	201 229	< 5	0.2	1.82	< 2	80	< 0.5	< 2	0.15	< 0.5	7	21	14	1.88	< 10	< 1	0.06	< 10	0.26	210
DN 1000 050N	201 229	< 5	0.2	1.44	< 2	120	0.5	< 2	0.60	< 0.5	9	23	220	1.92	< 10	< 1	0.10	< 10	0.33	515

CERTIFICATION:

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To: GEOTEC CONSULTANTS LTD.
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VANCOUVER, BC
V6P 5M9

Project : DEER
Comments: ATTN: LEONARD W. SALEKEN

Page Number :2-B
Total Pages :2
Certificate Date: 18-AUG-97
Invoice No. :19737111
P.O. Number :
Account :LOY

CERTIFICATE OF ANALYSIS A9737111

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
DN 0800	201 229	< 1	0.02	41	300	2	< 2	5	42	0.09	< 10	70	68	< 10	44
DN 0850	201 229	1	0.01	20	950	< 2	< 2	1	24	0.05	< 10	< 10	14	< 10	36
DN 0900	201 229	< 1	0.01	19	600	4	< 2	1	31	0.11	< 10	< 10	40	< 10	74
DN 0950	201 229	< 1	0.01	13	800	< 2	< 2	1	13	0.08	< 10	< 10	33	< 10	56
DN 1000	201 229	< 1	0.01	15	1670	2	< 2	2	12	0.09	< 10	< 10	37	< 10	64
DN 1000 050N	201 229	< 1	0.03	24	320	< 2	< 2	3	33	0.06	< 10	30	40	< 10	32

CERTIFICATION:

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To: GEOTEC CONSULTANTS LTD.
6978 LABURNUM ST.
VANCOUVER, BC
V6P 5M9

Project : PLUG
Comments: ATTN:L.W.SALEKEN CC:GRANT CROOKER

Page Number :1-A
Total Pages :1
Certificate Date:
Invoice No. :19622949
P.O. Number :20
Account :LOY

CERTIFICATE OF ANALYSIS A9622949

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
19979581858000019	201	202	< 5	< 0.2	0.72	2	40	< 0.5	< 2	0.52	< 0.5	6	44	13	2.16	< 10	< 10	0.05	< 10	0.13	150
19980252048170201	201	202	< 5	< 0.2	0.55	< 2	50	< 0.5	< 2	0.29	< 0.5	4	13	17	1.22	< 10	< 10	0.05	< 10	0.27	175
19980944851890211	201	202	< 5	< 0.2	0.57	< 2	40	< 0.5	< 2	0.46	< 0.5	6	26	13	1.54	< 10	< 10	0.08	< 10	0.22	145
19980954855511022	201	202	180	< 0.2	0.51	< 2	30	< 0.5	< 2	0.41	< 0.5	5	30	11	2.48	< 10	< 10	0.04	< 10	0.30	185
12280784858711852	201	202	< 5	< 0.2	0.93	2	70	< 0.5	< 2	0.39	< 0.5	4	16	21	1.22	< 10	10	0.07	10	0.30	185
12280900883300187	201	202	< 5	< 0.2	0.66	2	60	< 0.5	< 2	0.44	< 0.5	7	42	13	3.58	< 10	< 10	0.07	10	0.32	100
12280920853800189	201	202	< 5	< 0.2	0.57	< 2	60	< 0.5	< 2	0.52	< 0.5	5	16	11	1.65	< 10	< 10	0.07	< 10	0.34	385
12281239855385191	201	202	< 5	< 0.2	1.13	< 2	90	< 0.5	< 2	0.48	< 0.5	6	26	30	3.33	< 10	< 10	0.11	< 10	0.43	245
12280785857821862	205	234	< 5	< 0.2	1.15	< 2	110	< 0.5	< 2	0.44	< 0.5	6	226	18	1.74	< 10	< 10	0.16	< 10	0.58	375
12280901885301188	205	234	< 5	< 0.2	1.36	< 2	110	< 0.5	< 2	0.93	< 0.5	11	135	33	2.53	< 10	< 10	0.17	< 10	0.58	450
12280921853811790	205	234	< 5	< 0.2	1.15	< 2	100	< 0.5	< 2	0.73	< 0.5	8	159	17	2.01	< 10	< 10	0.16	< 10	0.66	600
12281240855361922	205	234	< 5	< 0.2	1.71	< 2	170	< 0.5	< 2	0.85	< 0.5	13	117	30	3.07	< 10	< 10	0.18	< 10	0.96	605

CERTIFICATION: Hart Bechler

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To: GEOTEC CONSULTANTS LTD.
6978 LABURNUM ST.
VANCOUVER, BC
V6P 5M9

Project : PLUG
Comments: ATTN:L.W.SALEKEN CC:GRANT CROOKER

Page Number :1-B
Total Pages :1
Certificate Date:
Invoice No. :19622949
P.O. Number :20
Account :LOY

CERTIFICATE OF ANALYSIS A9622949

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sn ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
19979581858000019	201	202	< 1	< 0.01	10	630	< 2	< 2	3	11	0.11	< 10	< 10	76	< 10	14
19980252048170201	201	202	< 1	< 0.01	7	270	< 2	< 2	1	17	0.07	< 10	< 10	38	< 10	16
19980944851890211	201	202	< 1	< 0.01	8	790	< 2	< 2	1	24	0.06	< 10	< 10	47	< 10	16
19980954855511022	201	202	< 1	< 0.01	9	770	< 2	< 2	1	22	0.10	< 10	< 10	76	< 10	26
12280784858711852	201	202	< 1	< 0.01	9	770	2	< 2	3	22	0.06	< 10	10	31	< 10	52
12280900883300187	201	202	< 1	< 0.01	13	770	< 2	< 2	2	24	0.10	< 10	< 10	107	< 10	30
12280920853800189	201	202	1	< 0.01	10	1060	< 2	< 2	1	28	0.08	< 10	< 10	93	< 10	30
12281239855385191	201	202	1	< 0.01	20	950	2	< 2	2	37	0.11	< 10	< 10	65	< 10	40
12280785857821862	205	234	1	< 0.01	13	540	2	< 2	3	39	0.08	< 10	10	42	< 10	34
12280901885301188	205	234	1	0.06	21	630	2	< 2	4	64	0.15	< 10	< 10	76	< 10	
12280921853811790	205	234	1	0.08	18	550	< 2	< 2	3	61	0.13	< 10	< 10	57	< 10	34
12281240855361922	205	234	1	0.05	34	1290	< 2	< 2	6	77	0.17	< 10	< 10	76	< 10	80

CERTIFICATION: Hart Bechler

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GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.
VANCOUVER, BC
V6P 5M9

Project : PLUG
Comments: CC: GRANT CROOKER

Page Number :1
Total Pages :1
Certificate Date: 30-SEP-96
Invoice No. :19634213
P.O. Number :20
Account :LOY

CERTIFICATE OF ANALYSIS A9634213

SAMPLE	PREP CODE	Au ppb FA+AA
1997958385800019	244 --	< 5
1998025284817020	244 --	< 5
1998094485189021	244 --	75
1998095485511022	244 --	330
1228078485871185	244 --	< 5
1228090085300187	244 --	175
1228092085380189	244 --	< 5
1228123985535191	244 --	300

CERTIFICATION:

APPENDIX II

ROCK SAMPLE DESCRIPTIONS

ROCK SAMPLE DESCRIPTIONS

Sample Number	Description
Deer-01	-grab, 0.5 metre quartz vein, <5 ppb Au, <0.2 ppm Ag, 63 ppm Cu, 3 ppm Mo
Deer-02	-grab, felsite with quartz vein and pyrite, <5 ppb Au, <0.2 ppm Ag, 18 ppm Cu, <1 ppm Mo
Deer-03	-float, sediment with malachite, <5 ppb Au, 4.4 ppm Ag, 3020 ppm Cu,, 80 ppm Mo
Deer-04	-float, sediment with pyrrhotite, <5 ppb Au, 0.4 ppm Ag, 479 ppm Cu, 5 ppm Mo
Deer-05	-grab, 5 centimetre sulphide seam, <5 ppb Au, 2.4 ppm Ag, 2120 ppm Cu, 78 ppm Mo
Deer-06	-grab, pyritic sediments, <5 ppb Au, 0.2 ppm Ag, 177 ppm Cu, 9 ppm Mo
Deer-07	-grab, pyritic sediments, <5 ppm Au, <0.2 ppm Ag, 94 ppm Cu, 5 ppm Mo

LEGEND

Au	gold
Ag	silver
Cu	copper
Mo	molybdenum
ppb	parts per billion
ppm	parts per million

APPENDIX III

COST STATEMENT

COST STATEMENT

SALARIES	
Grant Crooker, Geologist 4 days @ $ 400.00/day	$ 1600.00
Leonard Saleken, Geologist 2 days @ $ 400.00/day	800.00
William Botel, Geologist 2 days @ $ 400.00/day	800.00
MEALS AND ACCOMMODATION	
Grant Crooker - 1 day @ $ 50.00/day	50.00
Leonard Saleken - 2 days @ $ 50.00/day	100.00
William Botel - 2 days @ $ 50.00/day	100.00
TRANSPORTATION	
Vehicle Rental (Chev 4 x 4) 3 days @ $ 60.00/day	180.00
Gasoline	75.00
GEOCHEMICAL ANALYSIS	
9 silt samples - 32 element ICP, Au @ $ 17.92	161.28
45 soil samples - 32 element ICP, Au @ $ 17.92	806.40
6 rock samples - 32 element ICP, Au @ $ 22.04	132.24
DRAFTING	150.00
PREPARATION OF REPORT reproduction, copying, overhead etc.	100.00
TOTAL	$ 5054.92