HAYDEN RESOURCES LTD.

REPORT ON THE 1996 DIAMOND DRILL PROGRAM ON THE VOIGTBERG PROPERTY (VOIGTBERG 1&2, NICKY 1&2, ICE, MORE ICE)

LIARD MINING DIVISION
NTS:104G/2E
LATITUDE: 57 07'N
LONGITUDE: 130 35'W

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V3A 3B4

November, 1996

HAYDEN RESOURCES LTD.

VOIGTBERG PROPERTY

SUMMARY

The Voigtberg property is located in northwestern BC, approximately 130 km northwest of Stewart, BC and 18 km northwest of the Bob Quinn air strip, located adjacent to the Stewart-Cassiar Highway. Three seasons of field work in 1993, 1994 and 1995 have delineated and confirmed a large gold-copper geochemical anomaly adjacent to a large gossan consisting of feldspar porphyry dikes and stocks. An IP geophysical survey conducted in 1993 produced an anomaly somewhat coincident with the gold geochemical anomaly but coverage wasnot complete in the area of the geochemical anomaly.

Three BTW diamond drill holes were completed between August 15 and 31, 1996. These holes were drilled from one drill site at varying dips and azimuths to test the surface geochemical anomaly. The three holes encountered andesitic rocks for most of their 498 foot lengths. All of the core was split and sent to Ecotech labs for assay. Gold values were anomalous in every 10 foot sample and averaged 0.263 grams/tonne for the 1494 feet. The highest contained grade was the last 8 feet in hole 3 which assayed 2.01 g/tonne.

The strategic location and massive gossan of the Voigtberg property make it a prime prospect to host economic mineralization. The 1995 exploration mapped some carbonate breccia shears which were thought to be the source of the gold anomaly. The 96 program has shown that this is not the case as the gold mineralization is found throughout the andesite unit in the location of the drill site. The overall geologic model for the property is massive alteration of the andesites due to the feldspar porphyry intrusives or other large scale mineralizing event.

Future work on the property should include continued sampling and detailed mapping of prospective showings with additional diamond drilling. In the vicinity of the gold anomaly drilling to greater depths near the intrusive may reveal the source of the large scale alteration and mineralization. Additional geophysics should be considered over the enlarged grid and should include VLF and Magnetometer surveys. Trenching would be useful in determining the structural controls of the geochemical anomalies discovered to date but it would have to be done by hand as there is currently no access for mechanized equipment.

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1.0 INTRODUCTION

The Voigtberg property is located in northwestern B.C., 18 kilometers northwest of the Bob Quinn airstrip, along the Stewart-Cassiar Highway (figure 1). Previous work outlined a geochemical anomaly near a grab sample assaying 0.47 0z./ton Au. Hayden Resources Ltd. optioned the property from Kingston Resources who optioned it from 344967 BC Ltd. and 348689 BC Ltd. Hemlo Gold Mines Inc. also optioned the property for one year. Field work has consisted of soil and rock geochemical sampling as well as prospecting on or near the grid established in 1993. An IP survey was done on a portion of the grid in 1993.

The 1996 exploration consisted of 1494 feet of diamond drilling using BTW size rods in three holes from one drill site. The site was located to explore the large gold geochemical anomaly defined in previous years. All of the core was split in 10 foot intervals with a few exceptions. The samples were fire assayed for gold with an ICP analysis for other elements by Eco Tech labs in Kamloops. All of the intervals contained some gold values.

2.0 LOCATION AND ACCESS

The Voigtberg property is located on mapsheet 104G-2E approximately 20 kilometers west of Bob Quinn Lake on the Stewart Cassiar Highway. Bob Quinn is located about 400 kilometers by road northwest of Smithers B.C.

Access to the property is provided by helicopter from Bob Quinn Lake. Camp facilities were provided along with sleeping and shower facilities by the Bob Quinn Lake Chalet. The drilling was done by Falcon Drilling of Prince George between August 18 and 25, 1996.

3.0 PHYSIOGRAPHY

The property is located in the Coast Mountain Range of northwestern BC, where it occupies the headwaters of a small unnamed northerly trending tributary which drains southward into More creek. Two glaciers on the northern half of the claims feed the main drainage.

Elevations range from approximately 1000 meters in the valley in the southern half of the property to 2000 meters on the peaks to the north. Glacial ice covers some of the northeastern part of the property at higher elevations. The terrain is mainly above the treeline and is very rugged with sparse alder and spruce at the lowest elevations with devils club near creek bottoms in these areas.

The climate of the More Creek area is typically wet throughout the year. Winter snow accumulation often exceeds 5 meters and surface exploration is limited to July through September.

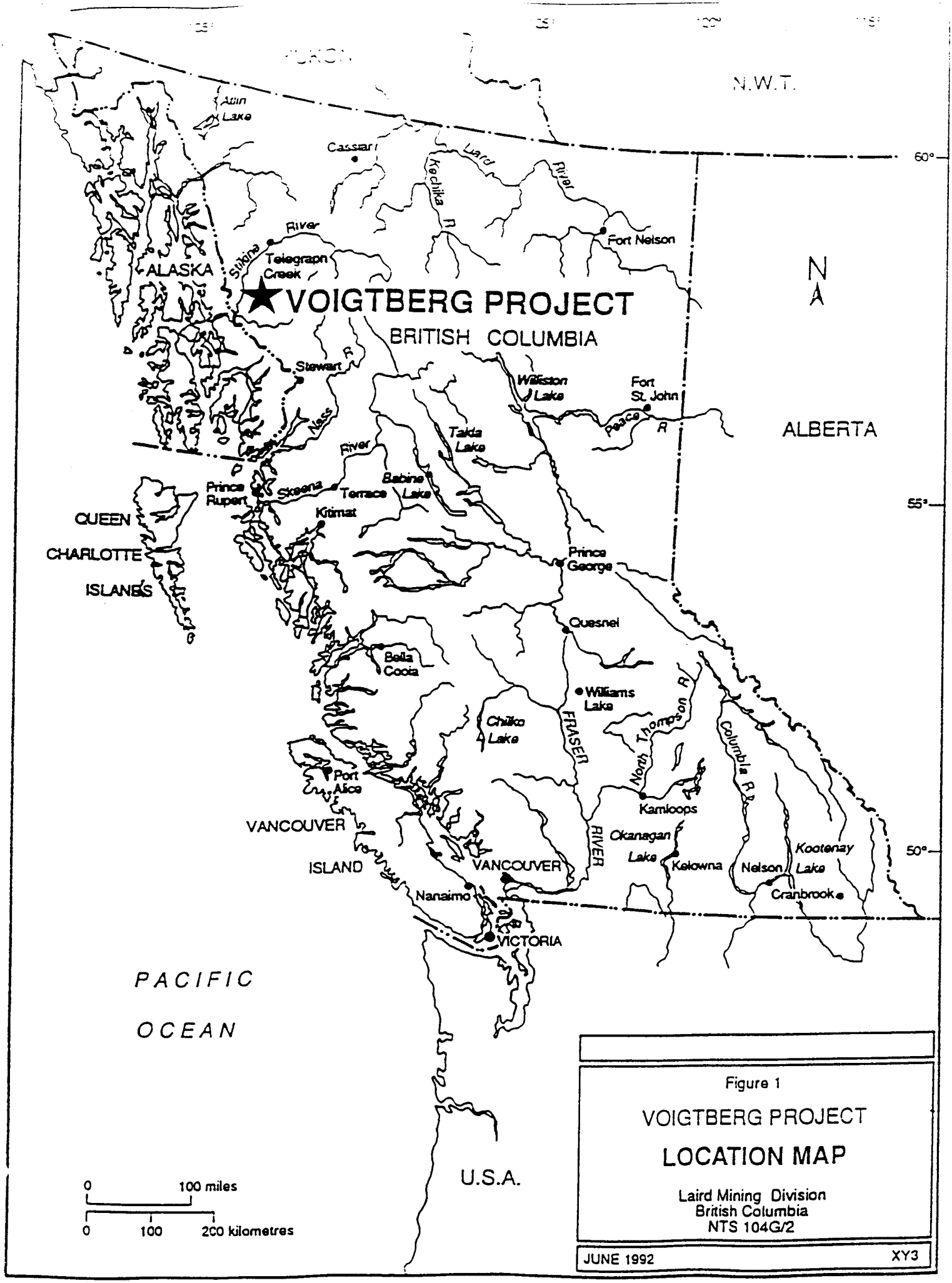


Figure 1

VOIGTBERG PROJECT

LOCATION MAP

Laird Mining Division
British Columbia
NTS 104G/2

JUNE 1992 XY3

4.0 CLAIM TENURE

The Voigtberg property consists of 82 claim units in six contiguous claims, the owners of record are J. Robins and Kingston Resources Ltd. The claims are located in the Liard Mining Division on NTS 104G/2E map sheet and are shown on Figure 2. Their current due dates are listed below, these dates are subject to change upon acceptance of all assessment work submitted.

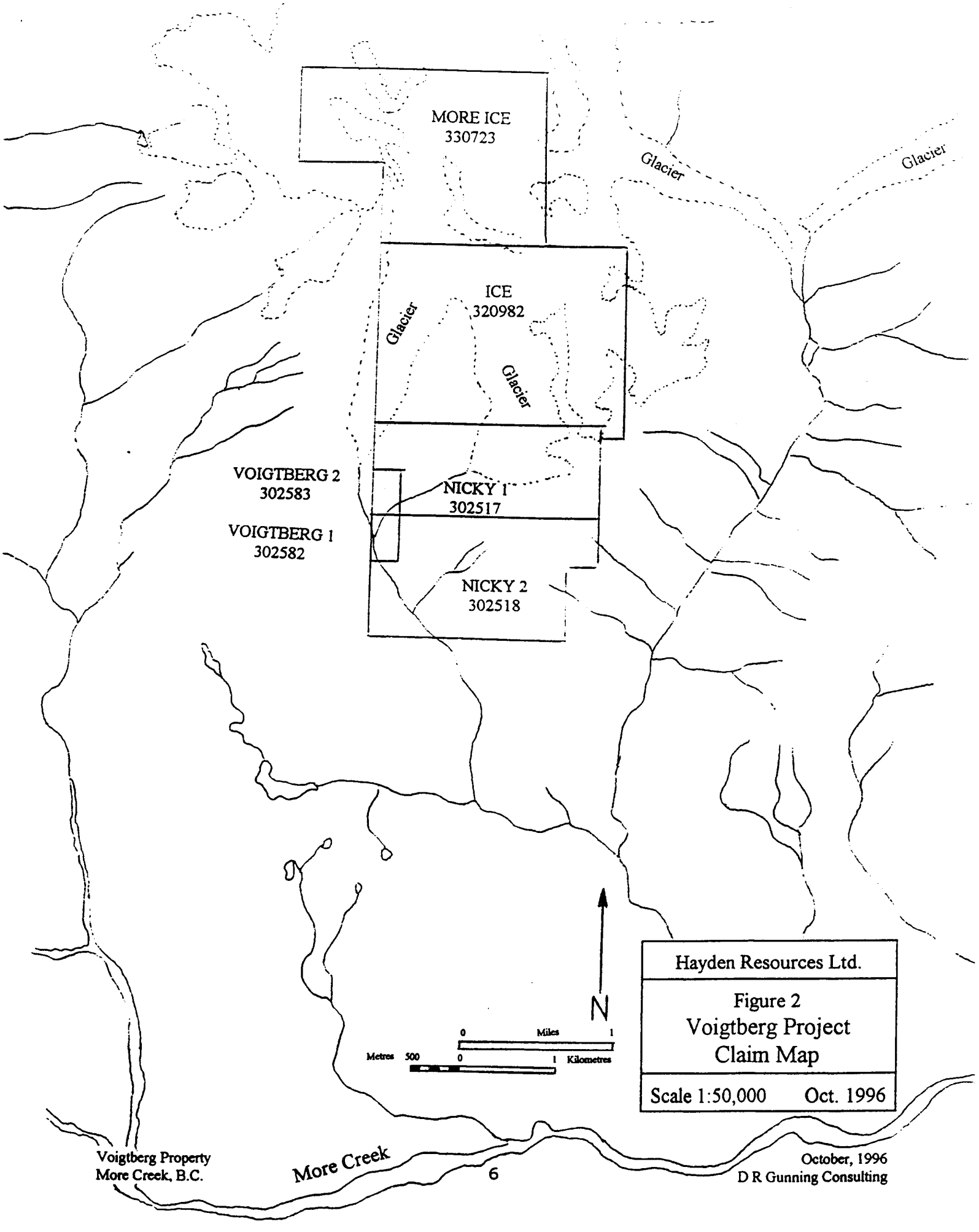
Claim Name	Record #	# of Units	Expity Date
Voigtberg 1	302582	1	July 26, 2005
Voigtberg 2	302583	1	July 26, 2005
Nicky 1	302517	12	July 26, 2005
Nicky 2	302518	18	July 26, 2005
Ice	320982	20	Sept.20, 2001
More Ice	330723	20	Sept.14, 1997

5.0 HISTORY AND PREVIOUS WORK

The Voigtberg property lies within the Stikine Arch along the margin of the Intermontane and Coast belts which hosts most of the significant mineral deposits found to date in northwestern BC. This area with Stewart in the south and Telegraph Creek in the north has hosted a number of periods of heightened exploration activity. After early placer gold explorers, base metals were the target during the 50's and 60's. The Galore Creek copper gold deposit was discovered as a result. Explorationists recognized the area as a major gold camp in the 80's with the discovery of the Snip and Eskay Creek deposits. Significant mineralization has also been discovered on the Lucifer, Snoball, Foremore, SM-More and GOZ-RDN properties.

Lac Minerals recorded the first assessment work on what is now the Voigtberg property in 1988 and 1989. The Lac and subsequent work programs have generally been short prospecting programs collecting rock, soil and stream geochemistry samples. The best rock sample to date was collected by Marty Bobyn in 1990 which assayed 0.47 oz.Au/ton. Numerous other samples have assayed between 200 and 2000ppb. gold.

In 1993 Kingston Resources performed prospecting as well as geophysics and geochemistry. A large gold geochemical anomaly coinciding with a chargeability high was indicated by this exploration. Work since 1993 by Hayden and then Hemlo Gold Mines Corp. has further defined and enlarged the geochemical anomalies but has failed to locate the source of the 1990 sample grading 0.47 opt.


MORE ICE
330723
Glacier
Glacier
ICE
320982
Glacier
Glacier
VOIGTBERG 2
302583
VOIGTBERG 1
302582
NICKY 1
302517
NICKY 2
302518
N
0
Miles
1
Metres
500
0
1
Kilometres
Hayden Resources Ltd.
Figure 2
Voigtberg Project
Claim Map
Scale 1:50,000
Oct. 1996
Voigtberg Property
More Creek, B.C.
More Creek
October, 1996
D R Gunning Consulting

6.0 GEOLOGY (from S. Smith, 1993)

6.1 REGIONAL GEOLOGY

"The More Creek area lies near the western edge of the Intermontane Belt. The area is underlain by a sequence of Late Paleozoic to Mesozoic rocks confined by the Coast Plutonic Complex to the west and the Bowser Basin to the east (Figure 3). This section of the Intermontane Belt forms the west limb of the "Stikine Arch", a roughly horseshoe shaped area of Upper Triassic to Jurassic stratigraphy that hosts most of the significant mineral deposits of northwest B.C.

Recent mapping by both the Geological Survey of Canada (Read et al, 1989; Anderson, 1989) and the geological mapping of the British Columbia Department of Energy, Mines and Petroleum Resources (Logan et al, 1990,92) has established a framework for the complex geology in this rugged area. It includes four, uncormity bounded, tectonostratigraphic assemblages: 1)Paleozoic Stikine Assemblage; 2)Triassic-Jurassic volcano-plutonic Assemblage; 3) Middle and Upper Jurassic Bowser onlap Assemblage; and 4) Tertiary Coast Plutonic Complex.

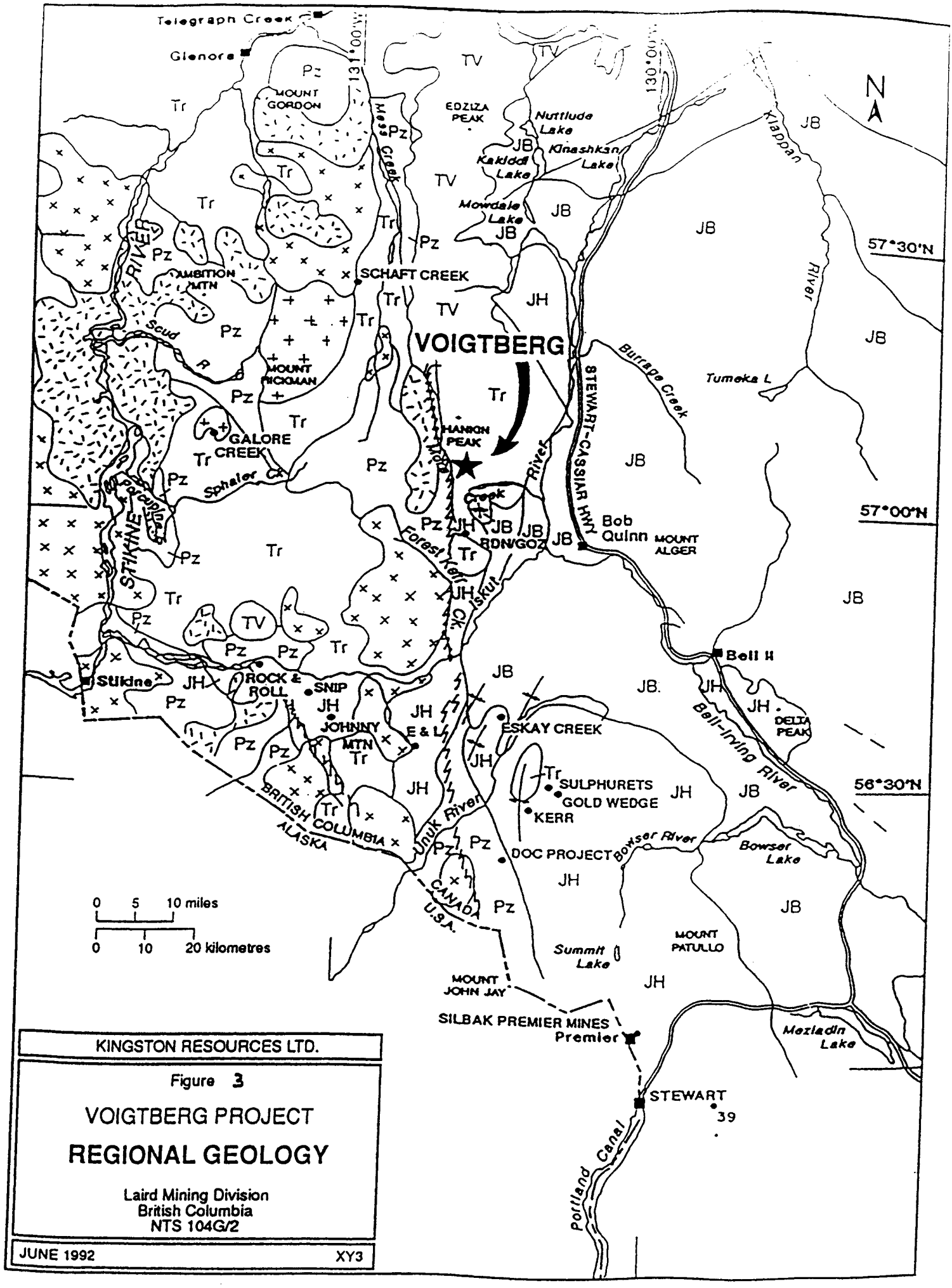
The Paleozoic Stikine Assemblage is the oldest rock sequence in this part of northwestern BC. It contains three distinct, mainly volcanic-carbonate divisions: Early Devonian limestones and intermediate to felsic metavolcanics, Mississippian bioclastic limestones and metasediments, and Permian fragmental metavolcanics and limestones. These rocks are generally matamorphosed and penetratively deformed by at least two phases of deformation (Read et al, 1989; Anderson, 1989; Logan et al, 1990).

The Triassic-Jurassic volcano-plutonic complex (Stewart Complex) is comprised of both the Triassic Stuhini Group and the Jurassic Hazelton Group. The Stuhini Group consists of a lowermost metasedimentary succession a medial metavolcanic succession and an overlying tuffaceous metasedimentary succession (Read et al, 1989; Logan, 1990).

Lower and Middle Jurassic rocks of the Hazelton Group overlie Upper Triassic rocks east of the Forrest Kerr Fault. The generalized stratigraphy consists of: a lower sedimentary sequence of interbedded shales and siltstones, lesser limestone and tuff; overlain by thin felsic tuff and rhyolite flows; followed by a thick sequence of pillowed basalts, flow breccia and lesser interflow siliceous and argillaceous sediments; and an upper sequence of tuffs and siltstones conglomerate which overlie and interfinger with the pillow basalts. These rocks are intruded by sills and dykes of pyroxene and plagioclase-phyric diorite or coarse andesite (Logan et al, 1990).

Middle Jurassic Bowser Lake Group sediments conformably overlie the Hazelton Group and comprise a thick sequence of shale and sandstone conglomerate. Locally they are of Late/Middle Jurassic age which is correlative with the Ashman Formation (Read et al, 1989).

Regional faults generally trend north-south and northeast with a subordinate set of northwest trending lineaments. Many older faults in the Forest Kerr area have been folded such as the West Lake, West Slope and Kerr Bend Faults (Read et al, 1989). Some of these faults appear to be important controls



KINGSTON RESOURCES LTD.

Figure 3

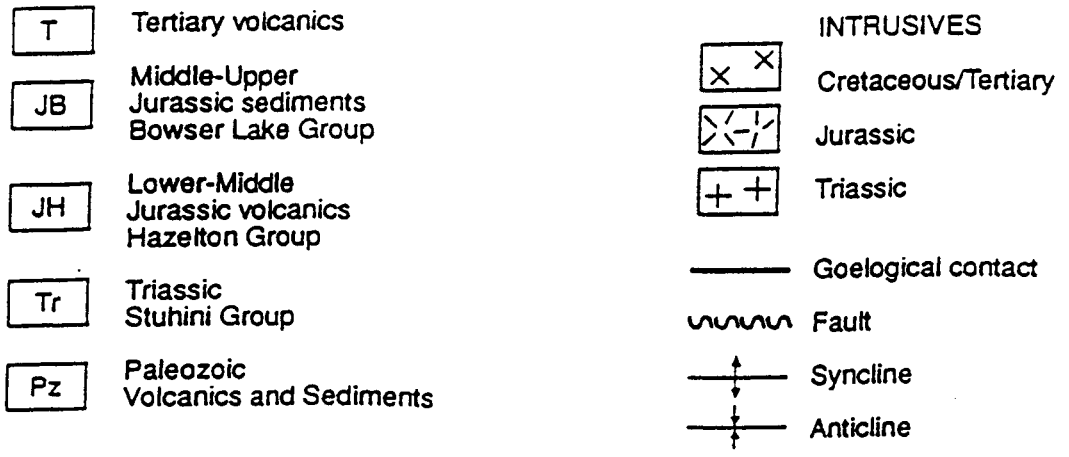
VOIGTBERG PROJECT

REGIONAL GEOLOGY

Laird Mining Division
British Columbia
NTS 104G/2

JUNE 1992 XY3

LEGEND for Figure 3



for the mineralization, one example is the Forest Kerr Fault for the GOZ-RDN, SM-More and the Forgold properties which are south of the Voigtberg property."

6.2 PROPERTY GEOLOGY

"No previous property scale mapping has been recorded on the claim group. However, 1:50,000 scale mapping conducted by BCMEMPR (Logan et al, 1992) encompasses the property area. The property is shown to be underlain by Upper Triassic sedimentary rocks of the Stuhini Group intruded by: a late Triassic or younger orthoclase porphyry with conspicuous large tabular phenocrysts (megacrystic syenite); an Early Jurassic or younger potassium feldspar porphyritic monzonite/granodiorite (quartz feldspar porphyry); and a Cretaceous or younger biotite phyric monzonite."

The grid area has been mapped over the past 3 field seasons at a scale of 1:2500. Andesite tuff, lapilli tuff and feldspar phyric flows are the principle constituents of the grid area. They are variably silicified, medium grained and generally grey in color. Most exposures are propyllitically altered and contain from 2-15% pyrite. Original textures are commonly altered and difficult to recognize and therefore much of the mapping in the area of the gold anomaly is somewhat suspect.

Two limestone units have been mapped on the property consisting of limestone, calcareous siltstone, calcareous pebbly conglomerate and calcareous cobble conglomerate. The limestone units are easily observed where exposed and sometimes contain fossil fragments. The clastic calcareous sediments are more susceptible to weathering with small outcrops and rubble making up the exposures.

Porphyry dykes and stocks intrude all of the units and form the eastern limit to the grid where they form the prominant gossanous cliffs that sparked interest in the property. White feldspar phenocrysts vary in size from 5mm to 6cm in length.

Bedding measurements are difficult to obtain and where available show random orientations throughout the grid. Horizons are difficult to map over large distances and contact relationships are interupted by faulting. Two dominant fault orientations indicated by joint mapping are 160° and 310°.

6.3 MINERALIZATION AND ALTERATION

Alteration on the Voigtberg is very extensive with disseminated pyrite being common in all rock types within the grid area. The most notable alteration is in the large gossan. It shows sericitic and argillic alteration, is silicified, and contains disseminated sulfides (mainly pyrite). Mineralization consists of disseminated pyrite with occasional stringers with a more massive texture, trace amounts of sphalerite, galena, and chalcopyrite have also been found disseminated in the rock. Mapping to date has failed to indicate a structure controlling this mineralization but talus covering most of the anomalous area makes tracing structures difficult.

Petrographic analysis of several sections of the drill core has shown the area to be highly altered. The rock contains up to 60% K-feldspar much of which is secondary. Sericite and carbonates are also

major constituents of the rock, they are consistently present in concentrations from 10 to 20%. Pyrite is ubiquitous in the core and was estimated up to 10% in the thin sections. The petrographic study is not conclusive in determining the original texture of the rock but indicates a probable mafic-intermediate volcanic perhaps andesite.

7.0 DIAMOND DRILL RESULTS

Three diamond drill holes were drilled from one site to test the gold in soil geochemical anomaly. These holes were drilled at varying azimuths and dips to ensure that bedding was crosscut to a certain extent. The three holes contained disseminated and fracture filled pyrite along their entire lengths and therefore the core was split in entirety. The logs and assays are listed as apendices.

The core appeared on inspection to be of andesitic character in part this categorization was due to previous mapping of surface exposures. Narrow carbonate veins and breccias as well as quartz veins frequently cut the core at different angles and there was no evidence of any consistent bedding planes. The generally grey fine grained groundmass occasionally contained feldspar phenocrysts but there was never any indication of any structures which may have intruded the rock to cause these phenocrysts.

Gold values occurred in every section of the core. The core was generally split in 10 foot sections occasionally being shortened to sample a particular structure of interest. The assay results are summarized as follows:

		Interval (feet)	Gold (g/tonne)
Hole 96-1 (Azimuth 350°, -45°)		0-498	0.278
	including;	213-233	1.2
		383-423	0.365
		423-473	0.732
Hole 96-2 (Azimuth 315°, -45°)		0-498	0.293
	including;	65-75	1.420
		175-205	0.808
		355-375	1.020
		435-455	0.410
Hole 96-3 (Azimuth 315°, -80°)		0-498	0.218
	including;	110-130	0.405
		210-230	0.425
		490-498	2.010

The bottoms of the holes span an area 250 feet square with a maximum depth of 450 feet below the drill site (approximately 5900 feet asl.). The ends of holes 1 and 2 are outside the surface expression of the geochemical anomaly indicating that perhaps the entire andesite unit is similarly mineralized. There was no visual correlation to pyrite content or rock type which could explain the higher grade intersections and there does not appear to be any spatial relationship between the holes either.

The third hole intersected a more highly altered rock unit in the last 15 feet. There is 3-5% hematite less K-feldspar (25%) and more carbonate(45%) and sericite (25%) and less than 1% pyrite according to a thin section taken at 498 feet. This rock may be a high level intrusive porphyry and may be related to some of the intrusive textures seen on surface. At 460 feet in this hole there is a thinly laminated chloritic/graphitic segment which may be bedding, it is intersected at 70° to the core axis indicating a relatively shallow dip to the bedding.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The short drilling program on the Voigtberg has indicated a large low-grade gold deposit associated with pyrite in a carbonate-sericite alteration zone possibly related to intrusive bodies that were intersected at the bottom of the third hole. The relults are sub-economic currently but the mineralized zone appears to be very large and may be related to a large porphyry deposit either peripherally or at depth. Further drilling may define higher grade sections which may be economic particularly around the deepest intersection of 2.01 grams per tonne.

The drilling has shown that the volcanic unit hosting the gold anomaly persists to a great depth. The textures observed on surface may not accurately reflect the composition of the rock beneath and therefore should be considered with caution. Bedding measurements are very few on the property with th ebest one perhaps being at 460 feet in VGT 96-3 and indicating a fairly shallow dip. If this is the case then the calcareous units on surface between lines 5 and 11 south on the grid may be masking the geochemical signature of the volcanic rocks below. This hypothesis if correct would greatly increase the prospective area for gold mineralization.

An additional drilling program is warranted to further define the gold zone as well as trying to locate the intrusive cause of the intense alteration. The drill program should involve about 10,000 feet of core and will need a budget of about $1,000,000. A drill capable of reaching down 1,000 feet should be used but most holes would be shallower. A camp should be located near the drill sites to minimize standby time due to weather. A crew of padbuilders should be on site ahead of the drillers to properly locate the drill. Consideration should be given to further geophysics over the expanded grid.

APPENDIX I

STATEMENT OF COSTS

Planning, project preparation:	
D.R. Gunning 4 days @ $400/day	$ 1,600.00
Salaries:	
D.R. Gunning (mining eng.) 14 days @ $400/day	5,600.00
D. Switzer (field assistant) 12 days @ 150/day	1,800.00
Transportation:	
Truck	1,400.00
Gas	390.93
Meals and Accomodation:	
Room and Board- Bob Quinn Chalet (Man days @ $75/manday)	5,214.60
Motel-	124.20
Meals and Groceries	76.65
Field Supplies and Radio Rental:	50.00
Assays:	
156 rock (Au + 32 elem. ICP) @ $24.06/sample	3,753.70
Diamond Drilling:	
1494 feet @ $33.68/ foot	50,321.04
Helicopter:	
53.8 Hours Hughes 500 @ $781.1/hr	42,107.71
4.7 hours Bell 205 @ $2394.01/hr.	11,252.25
Report Writing:	
D.R. Gunning (mining eng.) 5 days @ $400/day	2,000.00
Drafting and reproduction	219.46
Petrographic analyses	568.18
Administration (10% on Hayden accounts)	12,647.87
TOTAL	**$ 139,126.59**

APPENDIX II

DIAMOND DRILL LOGS AND SAMPLE DESCRIPTIONS

Diamond Drill Hole VGT 96-1

Azimuth 350°
Dip 45°

Footage	Description
0-40	Oxidized fine grained with appearance of porphyry texture with much limonite and some pyrite occasionally very broken up and a possible fault at 40 feet (8" of clay gouge). Occasional fractures along core axis. Some grey andesitic rock with disseminated fine grained pyrite.
50-55	Mainly grey fine grained volcanic porphyry?? with lots of disseminated pyrite. Fractures about every 3 to 6" are somewhat healed (alteration envelope about ½") but light brown alteration adjacent to fracture, epidote?? Usually about 45 to 60° to core axis.
55-80	More altered and fractured most suphide gone out of altered material @ 60' Grey fine grained porphyry is shattered and filled with calcite veinlets, similar fracture density possible faults at 80, 79 and 72 @ 30° to C.A. approximate 40% unaltered and pyrite bearing.
80-88	Less oxidized some mineralized fractures still have some surface alteration. Host rock appears to be fine grained porphyry but is grey with occasional small feldspare crystals. Calcite veinlets 1/4" run 30° to CA. Pyrite as fracture fillings and disseminated. In places the rock appears brecciated.
88-113	Carbonate breccia. Pyrite grains becoming larger and more pyrite as fracture filling. Carbonate vein to 8" possible sphalerite? Some sig. Fractures within zone with gouge etc. present.
113-146.5	Fracture zone (30% recovery 138-146.5) highly oxidized occasional remnants of original rocks with much pyrite. Sometimes pieces appear porphyrytic and other more like Carbonate Breccia. Fractures are at all angles to core axis.
146.5-155	Carbonate Breccia, up to 8" calcite veins, fairly solid rock not very fractured disseminated pyrite and pyrite as fracture fillings.
155- 188	Grey very silicious andesite?? Disseminated and fracture filled pyrite small fault @ 30° to core axis @ 180 feet, 1/8" calcite veinlets sometimes with 4" of Breccia on either side.

188-202	Grey silicious rock with fractures along core axis. Some fracs x-cut calcite veinlets, Hematite is present along these fractures. Pyrite still common in both forms.
202- 218	Grey silicious, increased breccia but now seams silicious. Quartz vein at 209-212 banded @ 20° to core axis (6" true width)
218-243	Silicified with pyrite disseminated and as fracture fillings 6" breccia zones @ 228 and 243 Core is solid commonly in 3 foot lenghts.
243-263	Pyrite occurring in more regular bands? 2' calcite vein @ 258-260. Core axis is parallel to a fracture with hematite @ 262, less breccia around veins. Pyrite may be occurring with black mineral (chlorite?).
263- 299	Silicified? andesitic becoming slightly more porphyritic to 299. Barren looking at first glance there is much pyrite on close inspection. breccia @ 298 & 280. Significant fracture @ 293' (30°) & 299' (45°).
299-304	Large feldspar crystals in grey groundmass, this might oxidize to mega porphyry intrusive mapped on surface, still contains pyrite, disseminated and in veinlets, no obvious contacts.
304-358	Grey Basalt- Andesite? Possible pillow structures or flow contacts still well pyritized. 2-6" veins @ 308 and 313. Fracture 45°to core axis at 355 with Hematite, pyrite has massive to crystalline look and varies in size some fractures are enveloped with light brown alteration.
358-397	Grey andesite occasional fractures at 60° to core axis (some have pyrite slickensides) still evidence of pillows maybe, minor carbonate filling of shattered zones, silica has filled these in places. Still good pyrite content disseminated and at flow contacts and fractures.
397-434	Grey silious volcanics, fractures parallel to core axis at about 400. 1" Quartz veins at 413, 417, 423 and 426. Most healed material is with quartz not carbonate still abundant pyrite.
434-472.5	Grey silicified volcanic, 1" carbonate veins @ 450 and quartz vein at 453 similar amount of pyrite. Carbonate breccia 460 -465 Hematite fracture 40° to core Axis @ 470.
472.5-487	Grey silicified volcanics. 1" carbonate vein @ 475 and 485.5 with pyrite filling the walls, pyrite still disseminated and fracture filling.
487-498	Rock changes without and obvious contact -- Lighter color some feldspare phenocrysts and more fractures @ 20' to core axis. Still pyrite disseminated and in

fractures, maybe a change in alteration level here some kind of clay present. Quite vuggy rock.

EOH

Diamond Drill Hole VGT 96-2

Azimuth 315°
Dip 45°

Footage	Description
0-13	casing
13- 48	Broken volcanics altered brown along fractures, a few pieces of fresh rock appear to be similar to the bulk okf the last hole (grey volcanic with pyrite) much of the core is badly broken
48-85.5	Rock gets fresher at 70' from 75 to 85 large feldspare phenocrysts occur still with pyrite . 48' to 65' rock is quite oxidized but 100% recovery was still achieved.
85.5- 123	Grey volcanic, altered light brown near fractures @ 45° to 60° to core axis, slightly porphyritic 85.5 to 95. Phenocrysts to 1 cm long by 2mm wide. Intermittent brecciation with pyrite along walls of carbonate infillings. Pyrite disseminated throughout. Rock is more brecciated from 93 to 95 and 110 to 111.
123-161	Grey volcanic, occasional phenocrysts, quite a few fractures with some gouge at 108 - 108.5 , 109 - 109.5, 153, 157, 159 mostly 50° to core axis. Rock is lighter color 151-161 with more carbonate.
161-196	Grey volcanics, very altered 162-167, occasional breccia, occasional feldspar phenocrysts. Cordierite like pseudomorphs at 190, banded vein 192 to193, fractures at 161, 175 and 189. Core more fractured than normal
196-233	Grey volcanics with both pyrites faults/fractures @200, 205, 206, 209, 214 & 231 Quite a lot of significant fractures. Some feldspars but not many, some carbonate fracture filling.
233-269	Grey volcanics, from 245-255 fractures are up to 1" wide with F.G. pyrite +?. Also is brecciated and has a fault at 20° to core axis. 1 foot gouge zone at 261-262.
269-307.5	Grey volcanlc with pyrite, disseminated and fracture filled (veinlet). From 294 to 308

feldspar phenocrysts are present (1x10 mm). Fracture zone from 281-289~45° to core axis, some gouge present. Some carbonate breccia @ 278, occasional alteration envelopes around fractures ~1/2" on each side.

307.5-344.5 Solid sections of core, grey volcanics with normal concentrations of pyrite both disseminated and fracture fillings. Fractures at 320 and 325, small calcite veinlets to 1 cm but no breccia.

344.5-380.5 Grey volcanics with much disseminated and fracture filled pyrite. Faults at 347, 353. From 359-378 there are fractures parallel to the core axis which has resulted in broken core. Some alteration along fractures with vuggs, pyrite at the center of some of the vuggs.

380.5-415 Very fractured to 413. Some parallel to the core axis, some crossing it, fresh rock is the normal grey volcanics but there is a lot of alteration around fractures with much of this rock being orange-brown coloured. There are some small vugs where pyrite appears to have oxidized there is still some pyrite left.

415-452.5 Core is much more solid and fresher consisting of grey volcanics and pyrite. 1 foot fracture zone at 422, frac ture at 428 and 6" of gouge at 452. Carbonate breccia 438-445, 1 inch calcite vein with crystals in open vug at 447, 1/2" pyrite seam at 450.

452.5-498 One foot of fault gouge then 3 feet of dark volcanic with some carbonate, then a fracture zone to 461. Volcanic with bands of pyrite +? In gouge at 459. 461-462 ~ 1'of carbonate breccia with pyrite, another fault at 466 with gouge(6"), fault at 471 and 481. Rock appears to get lighter in color at 485 there is still lots of pyrite.

EOH

Diamond Drill Hole VGT 96-3

Azimuth 315°
Dip -80°

Footage	Description
0-10	casing
10-46.5	Core is broken to 30 feet but still looks like grey volcanics. 1" of fault gouge at 36, several 1" carbonate veins at 23, 28, 29 and 33. Evidence of porphyry texture near surface.
46.5-83	Grey Andesite. Fracture zone from 49-57 feldspar phenocrysts developed from 73-83 and some of the fractures have light brown alteration halos. Pyrite is as common as

always.

83-126 Porphyry texture remains to 95 feet then one foot of gouge followed by barren bleached zone at 99 feet(mainly quartz) with possible barite at upper contact followed by more gouge from 104-110. 111-118 is typical grey rock with feldspar phenocrysts and some thick pyrite seams. 118-126 is broken and altered similar to the halos seen previously, sulphides are still present.

126-159.5 Carbonate breccia from 127-130 then grey porphyry which becomes altered and cracked up at 132 until 154 when it becomes more solid. Not many feldspar phenocrysts after 149. Pyrite still commononly disseminated and fracture fillings throughout the core.

159.5-197 Solid core except for 1" gouge at 189. Primarily grey volcanic with pyrite(maybe slightly less than normal). Alteration after fault at 190-191, areas of healed breccia or possibly flow contacts have more sulphide.

197-235 Solid core, grey volcanic. One foot of alteration at 198 increased pyrite to 209, 1" pyrite seam at 204, 1" gouge with fractures at 209 ~ 20° to core axis. 8" of gouge coloured orange-white and grey at 210-211. Vuggy volcanics 212-213, fracture at 217. There appears to be somewhat more sulphide than average in this section.

235-278.5 Very broken core. Poor recovery ~60% from 239-259, light brown alteration and fractured. 239-242 very white and broken, carbonate. At 242 6" gouge then white powdery material to 246 and carb breccia to 249. 249-259, fracture zone with an inch of grey volcanics. At 259 there is 3 feet of grey volcanics then extemely altered and fractured volcanics to 272. 272-279.5 is grey volcanics sometimes with light brown alteration around fractures.

278.5-315 Fractured and faulted to 290, alteration varies from light brown to very bleached. Fractures paralled to core axis at 297 with alteration then solid grey rock from 300. 6" carbonate vein at 300, 2" carbonate vein at 305 and 313.

315-353.5 Mainly fractured core, 2-3" pieces, fractures with alteration pyrite still in altered rocks. Some fault gouge (~1/2") at 320, 331, 332, 333, 336, 342, 345. Fault zone 345.5 to 351, faults at 20° and 45° to core axis. Six inch carbonate breccia at 331 and many fracs parallel to core axis.

353.5-388 Mainly grey andesite with pyrite. Fault zone from 358.5 to 362, very bleached toward 362. Trace of galena and chalcopyrite at 355?? Carbonate breccia form 359-362, fractures with light brown alteration from 374-378. Still lots of pyrite.

388-425 Andesite with vuggy light brown alteration for first 20 feet. Pyrite looks dendritic from 409 to 413. One foot carbonate vein at 414 , 2" carbonate vein at 416.

Bleached fracture zone from 407-409.

425-462 Typical grey andesite to 446. One inch fault gouge at 446, another weaker fault zone from 435-438. After 446, more carbonate and more sulphide. Six inches of finely banded graphitic/chloritic fine grained sulphides at 460 at 70° to core axis (this may be the only bedding seen in any of the holes). Some carbonate veins at low angles to core axis, pyrite commonly within and surrounding the margins of the calcite.

462-498 Grey volcanic to 480 feet, much pyrite associated with carbonate stringers. At 481 the rock changes to darker grey with small phenocrysts appears to be a fine grained intrusive. Fine grained disseminated pyrite much less than previous. There is a dark mineral disseminated maybe hematite, molybdenite or bornite?? Six inch carbonate vein at 495. Upper contact is very irregular perhaps 60° to core axis.

EOH

TAG #	Sample Description	
313501	DGV 96-1	6+90S; 6+10E, dark band in argillically altered cliff face, just below a crack assumed to be a block failure beginning.
313502	DGV 96-2	7+30S; 6+10E, 8 inch quartz vein striking 060 and dipping vertically, about 10 feet upslope of DGV 96-3.
313503	DGV 96-3	10 feet below DGV 96-2, 2 foot wide band of pyrite and chlorite. 7+32S; 6+12E.
313504	DGV 96-4	1+30S; 1+00E, 2 foot chip across a fine grained porph with pyrite and possible galena and chalcopyrite, shear zone trending 350 and vertical.
313505	DGV 96-5	selected portion of outcrop on talus slope, altered andesite with pyrite and galena and chalco, 2+50S; 5+00E.
313506	VGT 96-2	475-485 feet
313507	VGT 96-2	485-495 feet
313508	VGT 96-2	495-498 feet EOH
313509	VGT 96-3	10-20 feet
313510	VGT 96-3	20-30 feet
313511	VGT 96-3	30-40 feet
313512	VGT 96-3	40-50 feet
313513	VGT 96-3	50-60 feet
313514	VGT 96-3	60-70 feet
313515	VGT 96-3	70-80 feet
313516	VGT 96-3	80-90 feet
313517	VGT 96-3	90-100 feet
313518	VGT 96-3	100-110 feet
313519	VGT 96-3	110-120 feet
313520	VGT 96-3	120-130 feet
313521	VGT 96-3	130-140 feet

313522	VGT 96-3	140-150 feet
313523	VGT 96-3	150-160 feet
313524	VGT 96-3	160-170 feet
313525	VGT 96-3	170-180 feet
313526	VGT 96-3	180-190 feet
313527	VGT 96-3	190-200 feet
313528	VGT 96-3	200-210 feet
313529	VGT 96-3	210-220 feet
313530	VGT 96-3	220-230 feet
313531	VGT 96-3	230-240 feet
313532	VGT 96-3	240-250 feet
313533	VGT 96-3	250-260 feet
313534	VGT 96-3	260-270 feet
313535	VGT 96-3	270-280 feet
313536	VGT 96-3	280-290 feet
313537	VGT 96-3	290-300 feet
313538	VGT 96-3	300-310 feet
313539	VGT 96-3	310-320 feet
313540	VGT 96-3	320-330 feet
313541	VGT 96-3	330-340 feet
313542	VGT 96-3	340-350 feet
313543	VGT 96-3	350-360 feet
313544	VGT 96-3	360-370 feet
313545	VGT 96-3	370-380 feet
313546	VGT 96-3	380-390 feet
313547	VGT 96-3	390-400 feet
313548	VGT 96-3	400-410 feet
313549	VGT 96-3	410-420 feet
313550	VGT 96-3	420-430 feet
313551	VGT 96-1	0-10 feet
313552	VGT 96-1	10-20 feet
313553	VGT 96-1	20-30 feet
313554	VGT 96-1	30-40 feet
313555	VGT 96-1	40-50 feet
313556	VGT 96-1	50-60 feet
313557	VGT 96-1	60-70 feet
313558	VGT 96-1	70-80 feet
313559	VGT 96-1	80-88 feet
313560	VGT 96-1	88-93 feet
313561	VGT 96-1	93-98 feet
313562	VGT 96-1	98-103 feet
313563	VGT 96-1	103-108 feet
313564	VGT 96-1	108-113 feet
313565	VGT 96-1	113-123 feet

313566	VGT 96-1	123-133 feet
313567	VGT 96-1	133-143 feet
313568	VGT 96-1	143-153 feet
313569	VGT 96-1	153-163 feet
313570	VGT 96-1	163-173 feet
313571	VGT 96-1	173-183 feet
313572	VGT 96-1	183-193 feet
313573	VGT 96-1	193-203 feet
313574	VGT 96-1	203-207 feet
313575	VGT 96-1	207-213 feet
313576	VGT 96-1	213-223 feet
313577	VGT 96-1	223-233 feet
313578	VGT 96-1	233-243 feet
313579	VGT 96-1	243-253 feet
313580	VGT 96-1	253-263 feet
313581	VGT 96-1	263-273 feet
313582	VGT 96-1	273-283 feet
313583	VGT 96-1	283-293 feet
313584	VGT 96-1	293-303 feet
313585	VGT 96-1	303-313 feet
313586	VGT 96-1	313-323 feet
313587	VGT 96-1	323-333 feet
313588	VGT 96-1	333-343 feet
313589	VGT 96-1	343-353 feet
313590	VGT 96-1	353-363 feet
313591	VGT 96-1	363-373 feet
313592	VGT 96-1	373-383 feet
313593	VGT 96-1	383-393 feet
313594	VGT 96-1	393-403 feet
313595	VGT 96-1	403-413 feet
313596	VGT 96-1	413-423 feet
313597	VGT 96-1	423-433 feet
313598	VGT 96-1	433-443 feet
313599	VGT 96-1	443-453 feet
313600	VGT 96-1	453-463 feet
313601	VGT 96-1	463-473 feet
313602	VGT 96-1	473-483 feet
313603	VGT 96-1	483-487 feet
313604	VGT 96-1	487-498 feet EOH
313605	VGT 96-2	13-25 feet
313606	VGT 96-2	25-35 feet
313607	VGT 96-2	35-45 feet
313608	VGT 96-2	45-55 feet
313609	VGT 96-2	55-65 feet

313610	VGT 96-2	65-75 feet
313611	VGT 96-2	75-85 feet
313612	VGT 96-2	85-95 feet
313613	VGT 96-2	95-105 feet
313614	VGT 96-2	105-115 feet
313615	VGT 96-2	115-125 feet
313616	VGT 96-2	125-135 feet
313617	VGT 96-2	135-145 feet
313618	VGT 96-2	145-155 feet
313619	VGT 96-2	155-165 feet
313620	VGT 96-2	165-175 feet
313621	VGT 96-2	175-185 feet
313622	VGT 96-2	185-195 feet
313623	VGT 96-2	195-205 feet
313624	VGT 96-2	205-215 feet
313625	VGT 96-2	215-225 feet
313626	VGT 96-2	225-235 feet
313627	VGT 96-2	235-245 feet
313628	VGT 96-2	245-255 feet
313629	VGT 96-2	255-265 feet
313630	VGT 96-2	265-275 feet
313631	VGT 96-2	275-285 feet
313632	VGT 96-2	285-295 feet
313633	VGT 96-2	295-305 feet
313634	VGT 96-2	305-315 feet
313635	VGT 96-2	315-325 feet
313636	VGT 96-2	325-335 feet
313637	VGT 96-2	335-345 feet
313638	VGT 96-2	345-355 feet
313639	VGT 96-2	355-365 feet
313640	VGT 96-2	365-375 feet
313641	VGT 96-2	375-385 feet
313642	VGT 96-2	385-395 feet
313643	VGT 96-2	395-405 feet
313644	VGT 96-2	405-415 feet
313645	VGT 96-2	415-425 feet
313646	VGT 96-2	425-435 feet
313647	VGT 96-2	435-445 feet
313648	VGT 96-2	445-455 feet
313649	VGT 96-2	455-465 feet
313650	VGT 96-2	465-475 feet
313651	VGT 96-3	430-440 feet
313652	VGT 96-3	440-450 feet
313653	VGT 96-3	450-460 feet

313654	VGT 96-3	460-470 feet
313655	VGT 96-3	470-480 feet
313656	VGT 96-3	480-490 feet
313657	VGT 96-3	490-498 feet EOH

APPENDIX III

PETROGRAPHIC ANALYSES

Vancouver Petrographics Ltd.

8080 GLOVER ROAD. LANGLEY, B.C. V3A 4P9
PHONE (604) 888-1323 • FAX (604) 888-3642

PETROGRAPHIC REPORT ON 4 POLISHED THIN SECTIONS

Report for: David R. Gunning, P. Eng. Invoice 960680
Westore Engineering Ltd. (Kingston Resources Ltd.)
Suite 2020 Guinness Tower, 1055 West Hastings St.
Vancouver, B.C. V6E 1V5. Oct. 16, 1996.

VGT 96-1 438': INTENSELY K-FELDSPAR-CARBONATE-SERICITE-PYRITE-APATITE-RUTILE ALTERED, CARBONATE VEINED, ?MAFIC-INTERMEDIATE VOLCANIC ROCK

Dark grey-green, strongly altered fine grained ?volcanic rock with abundant disseminated pyrite and irregular white carbonate veins. Both veins and matrix react to HCl, and there is extensive stain for K-feldspar in the matrix; the rock is not magnetic. Modal mineralogy in polished thin section is approximately:

K-feldspar (?largely secondary)	55%
Carbonate (largely calcite)	20%
Sericite	10%
Pyrite	10%
Apatite	2-3%
Quartz (veinlets only)	1-2%
Rutile	1%
Chalcopyrite	<1%

This is a very strongly altered rock, composed principally of a fine matrix of ?mainly secondary? K-feldspar that hosts patches of carbonate and disseminated pyrite plus minor apatite. In places there is significant alteration of the K-feldspar to sericite (these areas would be unstained in the stained slab).

K-feldspar occurs as subhedral to anhedral, irregular and tightly interlocking crystals generally less than 50 microns in diameter (in places up to 0.2 mm in diameter). The K-feldspar is heavily replaced in places by carbonate and lesser sericite, especially where the rock is most pyritized, suggesting sulfide mineralization accompanied carbonate-sericite alteration and is mainly later than potassic alteration. Carbonate, likley mainly calcite, forms extremely fine subhedra of about 5-10 microns in the K-feldspar, or (with strong pyrite) forms subhedral crystals up to 0.15 mm in diameter. The carbonate and sulfide presumably represent the complete alteration of former mafic minerals. Strongest carbonate alteration is also mainly associated with carbonate veins up to 0.3 mm thick (two generations: an earlier containing fine pyrite, and a later that lacks pyrite; rare subhedral quartz to 50 microns is associated with the former). Sericite forms minute 5-10 micron subhedral flakes that replace the feldspar between carbonate and pyrite crystals.

Pyrite forms mainly subhedral crystals and aggregates rarely amounting to over 0.25 mm in diameter, intergrown with 10-20 micron rutile; apatite is unusually abundant, forming mainly euhedral lath-shaped crystals up to 0.25 mm long. Rare chalcopyrite forms rounded to subhedral crystals to 0.15 mm diameter; no gold was observed in routine examination of the surface of the polished section. The protolith for this intensely K-feldspar-carbonate-sericite altered, pyritized rock is not obvious, but could have been a mafic-intermediate volcanic.

VGT 96-2 78': ?K-FELDSPAR, CARBONATE-SERICITE-PYRITE ALTERED ?LATITE TO ANDESITE VOLCANIC (K-SPAR, PLAGIOCLASE, MAFIC, APATITE PHENOCRYSTS)

Grey, fine-grained, altered volcanic rock containing slender laths of K-feldspar up to 1.2 cm long by <1 mm thick (both the laths and the matrix stain strongly for K-feldspar; the etched slab also reveals rounded to irregular clots of carbonate and pyrite, likely after former mafic crystals). Modal mineralogy in polished thin section is approximately:

K-feldspar (partly secondary)	60%
Carbonate (partly calcite)	15%
Sericite	10%
Pyrite	10%
Apatite	2%
Quartz (veinlets)	1-2%
Rutile	1%
Clay/hematite (after K-spar)	<1%

K-feldspar forms euhedral crystals, both ?primary phenocrysts in excess of 8 mm long and fine matrix material of less than 0.5 mm size. The phenocrysts are commonly partly clouded by extremely fine (micron-sized) particles of clay and hematite, and are veined by cross-fractures of clear ?secondary K-feldspar. The matrix feldspar is relatively clear, and may be partly secondary; it is altered to carbonate and lesser sericite as fine (10-20 micron) subhedral crystals. Carbonate is also abundant as coarser, eu- to subhedral crystals up to 0.25 mm in size intergrown with fine pyrite, surrounded by sericite (subhedral flakes up to 50 microns in diameter) or in aggregates with euhedral outlines up to 1.5 mm long, mixed with pyrite and associated with euhedral apatite crystals up to 0.15 mm long; these sites likely represent former mafic phenocrysts. Scattered larger apatite euhedra to 0.5 mm may represent apatite micro-phenocrysts. Carbonate may include both calcite and ?dolomite or ankerite (with higher relief); sericite is also found as aggregates replacing former ?plagioclase crystals with euhedral outlines up to 2 mm across.

Pyrite is abundant throughout, forming mainly sub- to euhedral crystals rarely over 0.1 mm in diameter (aggregating in places to 0.5 mm). The aggregates are commonly intergrown with minor rutile as eu- to subhedral crystals rarely over 20 microns in diameter. No particles of gold are visible in routine examination of the surface of the polished section, but this is not surprising given the low abundance of gold (about 1 g/ton) in the sample. About the only way to search effectively for the locus of the gold in such a sample would be to subject the polished surface to reconnaissance SEM (scanning electron microscope) study, searching for bright spots (of high atomic number, such as Au) in backscattered electron mode. At some time, you may wish to contact Jim Clark at IXION Research Group (4450 rufe Fabre, Montreal, QC H2J 3V3; 514-398-4883) to have such a study made.

Rare narrow quartz, quartz-calcite-apatite, or calcite veinlets generally less than 0.1 mm thick cut and offset the feldspar laths. This is a strongly carbonate-sericite-pyrite-rutile altered rock, possibly originally composed of roughly equal amounts of K-spar, mafic and plagioclase phenocrysts in a ?felsic matrix; depending on how much secondary K-feldspar is present, it could be a latite to andesite. The apatite microphenocrysts support the latter composition; to me, it looks like a different (more felsic) volcanic from the one in 96-1 438.

VGT 96-2 369': ?K-FELDSPAR-SERICITE-PYRITE ALTERED ?LATITE TO ANDESITE, CUT BY RARE QUARTZ VEINLETS AND OXIDIZED TO LIMONITE

Grey, highly pyritized and altered ?volcanic but extensively cut by rusty brown weathering fractures along which pyrite is relatively oxidized. The rock is not magnetic and shows no significant reaction to cold dilute HCl, but stains extensively for K-feldspar. Modal mineralogy in polished thin section is approximately:

K-feldspar (mainly secondary)	60%
Sericite	20%
Pyrite	10%
Limonite	2-3%
Apatite	1-2%
Quartz (veinlets)	1%
Rutile	<1%

This sample consists mainly of potassium feldspar that may be largely secondary after plagioclase, and relict mafic sites pseudomorphed by sericite and pyrite, plus accessory apatite. Both the apatite and rare outlines of feldspar laths suggest an affinity to the previous sample from 78', although the K-feldspar crystals are not obvious.

Feldspar crystals are generally sub- to euhedral in outline and less than 0.5 mm in diameter, similar to the matrix crystals in 96-2 79'; although most are K-feldspar, this could be secondary after former ?plagioclase. Other similar crystal outlines of similar size are pseudomorphed by fine (10-15 micron) sericite and minor limonite; these could also be after plagioclase. Sericite also commonly accompanies pyrite along a network of very fine (20 micron) to fine (0.1 mm) fractures and rare quartz veins up to 0.3 mm thick; minor limonite along these veins could be after former sulfide.

Mafic relics are represented by areas of pyrite (or limonite) and sericite, with subhedral outlines up to 1.2 mm long. As in the previous sample from 78', apatite crystals are both associated with the mafic sites (elongate crystals to 0.15 mm) and also form euhedral ?microphenocrysts up to 0.3 mm in diameter.

Most pyrite throughout the sample occurs as sub- to euhedral crystals less than 0.25 mm in diameter, almost all coated or rimmed by 10-20 micron thick limonite replacements. Minor rutile (euhedral crystals less than 20 microns) is difficult to separate from limonite in this sample, but is commonly found associated with rather than replacing pyrite. No particles of native gold are visible in routine examination of the surface of the polished section.

This is a strongly ?K-feldspar-sericite-pyrite altered volcanic, probably similar to the ?latite-andesite at 79' in this hole; significant oxidation to limonite has affected the pyrite.

VGT 96-3 498': INTENSELY CARBONATE-SERICITE-IK-SPAR-HEMATITE ALTERED CONTACT BETWEEN ?LATITIC VOLCANIC AND HIGH-LEVEL INTRUSIVE

Finely porphyritic, grey-green altered volcanic rock that reacts extensively to HCl, but is not magnetic and has less stain for K-feldspar than previous samples. The rock is cut by white calcite veins. Modal mineralogy in polished thin section is approximately:

Carbonate (?largely calcite)	45%
Sericite	25%
K-feldspar	25%
Hematite (?partly after magnetite)	3-5%
Quartz (veinlets)	1%
Pyrite	<1%

In thin section, this is a very strongly altered sample, composedmainly of carbonate, relict K-feldspar and sericite plus accessory opaques (mainly hematite), cut by veinlets of carbonate and rare quartz. There is very little texture left, in spite of the relatively fresh appearance in hand specimen. What appear to be eu- to subhedral phenocrysts in hand specimen are subrounded patches of carbonate or less commonly sericite in thin section; the former are likely after mafic crystals and the latter after plagioclase, although in hand specimen plagioclase relics look more common.

Carbonate occurs as subhedral crystals mainly less than 30 microns in the groundmass of the rock but up to 0.15 mm where replacing former phenocrysts (with opaques where after ?mafics, and with sericite where after ?plagioclase feldspar). Sericite forms fine to very fine flakes mainly less than 25 and 10 microns respectively. Most K-feldspar, as indicated by staining of the etched slab and the thin section, consists of relicts or remnant sub- to anhedral grains up to 0.1 mm across, between the alteration minerals; they appear to be attacked by the carboante-sericite alteration. At one end of the sectiion, a distinct contact is observed between the rock described above and a much finer-grained, finely porphyritic rock with similar alteration but containing the apatite microphenocrysts of the volcanics described in other samples. I feel that you are right and the sample at 498' represents a high-level intrusive porphyry with a chilled margin, cutting slighly hornfelsed ?latitic volcanics.

Hematite is abundant (these are likely the dark metallic grains you needed identified), forming mainly extremely fine (5-20 micron) crystals in the groundmass of the rock, or scattered sub- to euhedral crystals up to 0.5 mm possibly after ?magnetite crystals from former potassic alteration. Pyrite is much less common, generally forming sub- to euhedral crystals less than 0.15 mm in diameter (rare aggregates to 0.3 mm) that are separate from the hematite. No gold particles were visible during routine examination of the surface of the polished section. Veinlets are mostly carbonate (?calcite) as subhedral crystals up to 0.35 mm diameter, rarely mixed with a little quartz of similar size and habit. There are several generations, with carbonate-only cut by fine-grained quartz-carbonate that are in turn cut by coarse quartz-carbonate. Sulfides are not associated with these veins.

Craig H.B. Leitch, Ph.D., P.Eng (604) 653-9158
492 Isabella Point Road, Salt Spring Island, B.C. V8K 1V4

C.H.B. Leitch

APPENDIX IV

ASSAY RESULTS

10-Sep 96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-1023

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

ATTENTION: D.GUNNING

No. of samples received: 81
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: D.GUNNING

Values in ppm unless otherwise reported

El #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W.	Y	Zn
1	313551	105	<0.2	0.39	85	90	<5	0.03	<1	14	20	150	6.39	<10	0.02	366	48	0.02	1	4400	12	<5	<20	184	<0.01	10	32	<10	<1	175
2	313552	340	2.0	0.27	85	30	20	0.02	1	8	25	74	5.52	10	0.03	80	89	0.03	4	2950	26	<5	<20	341	<0.01	<10	32	<10	<1	126
3	313553	630	1.6	0.37	155	25	20	0.01	3	9	14	126	8.06	<10	0.04	131	50	<0.01	<1	2870	46	<5	<20	215	<0.01	10	45	<10	<1	292
4	313554	210	0.8	0.39	85	10	15	0.51	1	18	11	171	6.48	<10	0.14	688	93	0.03	4	2730	54	<5	<20	212	<0.01	10	32	<10	<1	294
5	313555	115	0.4	0.54	105	5	15	1.73	4	24	14	225	6.45	<10	0.48	1276	51	<0.01	8	3180	22	<5	<20	118	<0.01	<10	45	<10	1	264
6	313556	105	<0.2	0.39	65	5	30	3.60	4	22	16	200	4.54	<10	1.23	2237	28	0.02	5	2450	8	<5	<20	88	0.02	<10	32	<10	3	232
7	313557	100	<0.2	0.53	65	5	15	2.71	5	24	16	215	4.98	<10	0.87	2161	38	0.01	7	2610	16	<5	<20	135	<0.01	<10	39	<10	3	430
8	313558	90	<0.2	0.53	60	10	10	3.48	5	32	20	181	5.51	<10	0.83	2727	78	0.02	10	2810	22	<5	<20	1431	<0.01	<10	52	<10	3	340
9	313559	75	0.4	0.35	65	<5	15	4.67	1	20	18	192	5.58	<10	1.35	2145	101	0.04	4	2460	44	<5	<20	909	0.01	10	45	<10	2	87
10	313560	360	0.2	0.16	165	<5	55	8.21	2	12	<1	470	4.72	360	3.57	2324	159	0.42	2	1400	184	<5	<20	240	<0.01	<10	19	<10	2	177
11	313561	405	2.6	0.27	185	<5	35	4.72	2	15	5	342	5.74	430	1.43	2020	79	0.48	4	1890	84	<5	<20	1841	<0.01	<10	58	<10	2	156
12	313562	240	<0.2	0.19	75	<5	15	5.03	<1	13	14	163	4.92	120	1.30	1762	28	0.16	<1	1640	28	<5	<20	1231	0.02	<10	45	<10	2	60
13	313563	80	1.0	0.22	60	<5	35	5.31	<1	19	12	171	4.78	90	2.10	1860	134	0.12	4	1950	52	<5	<20	312	0.01	<10	32	<10	1	39
14	313564	155	<0.2	0.23	60	<5	15	4.80	<1	18	25	86	5.07	20	1.54	1388	53	0.04	4	1950	14	<5	<20	182	<0.01	<10	32	<10	1	44
15	313565	100	0.6	0.29	45	15	20	3.38	<1	23	11	119	4.96	20	0.65	1810	37	0.04	7	2050	18	<5	<20	325	<0.01	<10	32	<10	1	191
16	313566	120	<0.2	0.25	50	<5	<5	5.53	1	22	16	113	4.43	50	2.04	1758	74	0.08	7	1660	18	<5	<20	185	<0.01	<10	39	<10	1	90
17	313567	465	1.8	0.28	65	10	15	2.88	2	42	11	96	4.07	70	1.07	1882	95	0.09	9	1530	14	<5	<20	169	<0.01	<10	26	<10	2	193
18	313568	145	0.8	0.12	50	10	<5	8.05	<1	8	13	58	3.50	90	2.48	2127	22	0.12	<1	1260	16	<5	<20	1379	<0.01	<10	13	<10	<1	17
19	313569	120	1.4	0.14	35	10	<5	5.03	<1	12	11	49	2.83	30	1.52	1332	7	0.04	6	1700	12	<5	<20	1347	<0.01	<10	19	<10	<1	11
20	313570	125	<0.2	0.18	35	<5	10	3.42	<1	10	19	48	3.45	<10	1.06	1078	20	0.02	1	1410	10	<5	<20	102	<0.01	<10	45	<10	<1	14
21	313571	60	<0.2	0.16	15	<5	5	3.44	<1	10	8	53	3.17	<10	1.04	975	18	0.01	<1	1270	<2	<5	<20	68	<0.01	<10	19	<10	<1	11
22	313572	140	<0.2	0.40	70	5	15	>10	<1	19	21	89	4.62	<10	1.01	1943	37	0.03	5	2280	18	<5	<20	158	<0.01	<10	71	<10	1	30
23	313573	70	<0.2	0.25	105	10	<5	>10	<1	26	18	124	5.64	<10	0.95	2030	18	0.02	7	2670	30	<5	<20	301	<0.01	<10	45	<10	1	46
24	313574	140	1.0	0.17	75	10	<5	>10	<1	16	18	63	4.90	<10	1.12	1716	25	0.01	3	1530	14	<5	<20	464	<0.01	<10	19	<10	1	34
25	313575	130	<0.2	0.16	50	15	10	>10	<1	11	8	43	3.00	10	1.80	1874	72	0.02	2	1130	24	<5	<20	474	<0.01	<10	52	<10	1	51

HAYDEN RESOURCES LTD.

ICP CERTIFICATE OF ANALYSIS AK 96-1023

ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
26	313576	>1000	0.8	0.18	345	15	15	9.74	2	23	24	96	5.14	<10	1.57	2246	28	0.02	7	2310	28	<5	<20	420	<0.01	<10	58	<10	1	46
27	313577	>1000	0.8	0.19	465	10	20	>10	4	16	14	152	5.72	<10	0.94	2407	23	0.01	4	2060	12	<5	<20	253	<0.01	<10	58	<10	<1	71
28	313578	180	0.8	0.22	120	5	10	>10	<1	29	17	104	5.21	<10	0.14	1264	14	0.02	15	4170	8	<5	<20	139	<0.01	<10	58	<10	<1	48
29	313579	230	<0.2	0.17	115	5	15	9.49	<1	28	15	82	5.17	<10	0.18	964	16	0.01	8	3980	4	<5	<20	187	0.02	<10	58	<10	<1	25
30	313580	110	<0.2	0.26	80	5	<5	>10	<1	29	16	83	4.95	60	1.17	1891	88	0.10	12	3320	22	<5	<20	214	0.01	<10	58	<10	1	23
31	313581	75	<0.2	0.28	75	10	10	7.83	<1	17	29	75	4.10	<10	0.71	1288	50	0.02	1	2380	6	<5	<20	130	<0.01	<10	39	<10	1	31
32	313582	60	<0.2	0.29	80	10	15	>10	<1	14	25	81	3.61	<10	0.08	1289	8	0.02	3	2010	<2	<5	<20	139	0.01	<10	39	<10	2	18
33	313583	135	<0.2	0.24	70	5	20	9.06	<1	16	18	75	4.37	10	0.65	1619	35	0.03	3	2680	2	<5	<20	163	<0.01	<10	32	<10	1	23
34	313584	135	<0.2	0.24	50	15	5	>10	<1	26	29	60	4.67	<10	0.11	1230	70	0.01	8	3080	4	<5	<20	117	<0.01	<10	32	<10	1	26
35	313585	125	<0.2	0.33	65	15	<5	>10	<1	16	23	89	4.00	<10	0.20	1620	37	0.02	2	2100	<2	<5	<20	124	0.01	<10	45	<10	2	30
36	313586	225	<0.2	0.22	110	10	<5	5.88	<1	17	19	111	3.84	<10	0.50	1186	32	0.01	5	1970	16	<5	<20	85	0.01	<10	36	<10	1	34
37	313587	180	<0.2	0.24	85	10	5	4.16	<1	20	18	104	4.16	<10	1.45	1560	17	0.01	5	2320	8	<5	<20	73	0.01	<10	43	<10	1	19
38	313588	115	0.2	0.19	75	10	15	4.63	1	17	10	165	4.57	<10	1.51	1885	12	<0.01	4	2510	16	<5	<20	79	<0.01	<10	43	<10	<1	24
39	313589	45	<0.2	0.30	45	10	10	3.68	<1	35	26	148	5.87	<10	1.24	1380	45	<0.01	10	4080	14	<5	<20	75	0.01	<10	71	<10	2	32
40	313590	60	<0.2	0.21	35	5	<5	4.12	<1	37	25	116	6.71	<10	1.51	1596	45	<0.01	11	3980	14	<5	<20	76	0.02	<10	50	<10	2	38
41	313591	130	1.0	0.21	85	5	<5	3.58	<1	12	14	105	4.50	<10	1.17	1313	22	0.01	2	2570	10	<5	<20	71	<0.01	<10	29	<10	2	17
42	313592	120	<0.2	0.28	140	10	15	4.35	<1	26	15	113	5.80	<10	1.52	1540	39	<0.01	5	3430	18	<5	<20	86	<0.01	<10	57	<10	2	15
43	313593	415	<0.2	0.19	200	5	<5	2.57	1	23	22	161	5.17	<10	0.78	1148	4	<0.01	4	2370	14	<5	<20	45	0.01	<10	14	<10	1	27
44	313594	425	<0.2	0.26	230	10	<5	3.66	<1	19	20	173	5.22	<10	1.19	1469	30	<0.01	4	2450	18	<5	<20	58	<0.01	<10	50	<10	2	34
45	313595	360	0.8	0.28	260	5	15	5.07	2	30	28	101	6.74	<10	1.92	2143	26	<0.01	14	3250	12	<5	<20	80	<0.01	<10	50	<10	1	23
46	313596	260	<0.2	0.22	190	10	<5	4.37	1	25	20	84	5.49	<10	1.69	1789	15	<0.01	8	2760	10	<5	<20	71	<0.01	<10	57	<10	1	17
47	313597	705	<0.2	0.16	260	10	<5	5.01	2	29	23	80	5.65	<10	2.27	1807	12	<0.01	17	2430	14	<5	<20	85	<0.01	<10	36	<10	<1	21
48	313598	>1000	<0.2	0.13	340	5	15	3.76	2	20	6	88	4.10	<10	1.65	1233	4	<0.01	9	3320	12	<5	<20	70	<0.01	<10	43	<10	<1	21
49	313599	490	<0.2	0.14	95	10	<5	4.22	<1	16	15	65	4.01	<10	1.46	1331	14	<0.01	4	2100	<2	<5	<20	224	<0.01	<10	<1	<10	1	13
50	313600	430	<0.2	0.13	205	10	<5	4.40	<1	21	14	77	4.28	<10	2.29	1938	31	<0.01	7	2350	14	<5	<20	132	<0.01	<10	36	<10	<1	32
51	313601	625	<0.2	0.18	395	10	15	5.77	3	31	22	156	6.87	<10	3.17	2344	48	<0.01	10	3680	30	<5	<20	339	<0.01	<10	43	<10	<1	40
52	313602	380	<0.2	0.21	285	10	15	4.25	2	23	24	121	5.79	<10	1.74	1529	6	<0.01	4	2080	18	<5	<20	310	0.02	<10	50	<10	1	34
53	313603	190	<0.2	0.22	335	20	20	3.44	3	22	27	123	5.29	<10	1.34	1336	45	<0.01	8	2540	22	<5	<20	461	<0.01	<10	38	<10	1	19
54	313604	215	<0.2	0.17	185	<5	<5	4.04	1	14	25	96	3.69	<10	0.95	1354	45	<0.01	3	1300	14	<5	<20	90	0.02	<10	14	<10	1	34
55	313605	150	<0.2	0.31	75	20	<5	2.14	<1	17	18	170	5.15	<10	0.82	1468	15	<0.01	7	2760	24	<5	<20	58	<0.01	<10	50	<10	1	93
56	313606	155	<0.2	0.26	95	30	<5	1.56	<1	21	19	122	5.78	<10	0.60	1580	70	<0.01	8	3200	24	<5	<20	78	<0.01	<10	43	<10	<1	122
57	313607	240	<0.2	0.32	100	30	5	0.32	2	15	21	101	6.37	<10	0.04	177	26	<0.01	8	4560	22	<5	<20	155	<0.01	<10	50	<10	<1	79
58	313608	155	<0.2	0.42	75	65	20	0.38	1	30	10	168	5.48	<10	0.03	1246	45	<0.01	7	4230	22	<5	<20	105	<0.01	<10	57	<10	1	126
59	313609	200	<0.2	0.28	165	10	<5	4.14	2	39	12	156	5.95	<10	1.42	2022	11	<0.01	13	4060	28	<5	<20	106	<0.01	<10	43	<10	2	55
60	313610	>1000	2.6	0.20	110	10	<5	4.20	1	28	13	166	4.15	<10	1.60	2053	20	<0.01	10	2240	10	<5	<20	135	<0.01	<10	57	<10	1	40

HAYDEN RESOURCES LTD. ICP CERTIFICATE OF ANALYSIS AK 96-1023 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
61	313611	270	<0.2	0.19	65	10	20	5.48	<1	17	23	102	2.91	<10	2.25	1990	31	<0.01	3	1500	14	<5	<20	161	<0.01	<10	14	<10	1	46
62	313612	475	<0.2	0.18	85	10	20	5.79	<1	13	11	112	2.99	<10	2.43	2010	12	<0.01	2	1650	8	<5	<20	144	<0.01	<10	29	<10	<1	15
63	313613	355	<0.2	0.14	105	5	<5	4.09	<1	22	2	172	4.23	<10	1.86	1207	56	<0.01	8	3220	18	<5	<20	75	<0.01	<10	43	<10	<1	23
64	313614	130	<0.2	0.15	55	10	<5	5.78	<1	14	27	82	3.32	<10	0.92	882	<1	<0.01	3	1570	4	<5	<20	81	<0.01	<10	36	<10	<1	27
65	313615	275	1.0	0.25	120	10	20	5.48	<1	21	16	272	4.72	<10	1.64	1302	37	0.01	7	3040	24	<5	<20	162	<0.01	<10	29	<10	1	44
66	313616	265	<0.2	0.23	130	10	10	4.43	<1	15	21	67	4.25	<10	1.60	1640	22	0.01	3	2130	22	<5	<20	98	0.01	<10	43	<10	1	32
67	313617	350	<0.2	0.21	125	10	20	6.01	<1	19	21	83	4.31	<10	2.33	2154	20	0.01	9	2430	18	<5	<20	153	0.01	<10	43	<10	<1	53
68	313618	325	<0.2	0.19	150	10	20	5.43	<1	16	18	137	4.06	<10	2.02	1721	15	<0.01	3	2210	2	<5	<20	144	0.01	<10	29	<10	<1	93
69	313619	160	<0.2	0.20	75	10	20	5.40	1	15	21	87	3.35	<10	1.29	2295	4	<0.01	4	1780	6	<5	<20	145	<0.01	<10	7	<10	1	38
70	313620	255	<0.2	0.16	125	5	10	5.09	<1	13	10	94	3.35	<10	1.82	1749	11	<0.01	<1	1750	14	<5	<20	96	<0.01	<10	29	<10	<1	55
71	313621	650	0.8	0.17	215	5	<5	4.30	1	18	11	104	5.04	<10	1.52	1624	8	<0.01	1	2390	14	<5	<20	90	<0.01	<10	29	<10	1	60
72	313622	255	1.4	0.21	205	5	30	4.27	<1	32	21	75	5.60	<10	1.63	1344	32	<0.01	13	3350	16	<5	<20	78	0.01	<10	57	<10	1	13
73	313623	>1000	2.0	0.17	320	5	<5	5.00	2	30	19	69	6.38	<10	1.99	1944	12	<0.01	9	2940	14	<5	<20	69	0.01	<10	64	<10	<1	24
74	313624	325	0.6	0.21	270	10	<5	5.76	1	26	15	87	6.13	<10	2.50	2210	4	<0.01	11	3560	14	<5	<20	100	0.02	<10	43	<10	<1	22
75	313625	245	1.0	0.16	100	10	10	4.69	<1	17	11	89	4.14	<10	1.90	1960	4	<0.01	4	2120	8	<5	<20	73	<0.01	<10	36	<10	<1	16
76	313626	145	1.0	0.22	80	15	<5	3.82	<1	17	14	136	4.10	<10	1.33	1710	1	<0.01	1	2110	12	<5	<20	56	<0.01	<10	43	<10	1	13
77	313501	105	12.8	0.16	305	10	<5	0.24	6	27	34	608	9.78	<10	0.02	79	24	<0.01	8	1050	194	<5	<20	71	0.01	10	14	<10	<1	331
78	313502	755	2.4	0.07	35	5	<5	0.14	<1	4	177	126	3.84	<10	<0.01	36	10	<0.01	2	180	30	<5	<20	62	<0.01	<10	21	<10	<1	16
79	313503	>1000	3.4	0.13	185	<5	<5	0.67	2	22	39	216	>10	<10	<0.01	1462	<1	<0.01	27	80	32	<5	<20	21	0.02	20	93	<10	<1	49
80	313504	20	0.8	0.21	60	10	<5	0.98	<1	17	15	112	4.80	<10	0.26	747	<1	<0.01	3	1990	12	<5	<20	37	0.01	<10	21	<10	1	9
81	313505	95	<0.2	0.65	<5	25	<5	4.19	<1	29	2	269	4.98	<10	1.53	1337	11	<0.01	7	4050	16	<5	<20	79	0.03	<10	107	<10	<1	36

12-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-5230

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

ATTENTION: D.GUNNING

No. of samples received: 12
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	313627	195	<0.2	0.28	120	5	<5	4.40	<1	15	12	122	4.17	<10	1.56	2039	<1	<0.01	3	2180	14	<5	<20	72	0.02	<10	50	<10	1	18
2	313628	275	<0.2	0.39	205	5	<5	5.77	<1	29	15	141	5.98	<10	2.49	2398	60	<0.01	12	2770	22	<5	<20	78	0.01	<10	71	<10	<1	20
3	313629	130	<0.2	0.46	180	5	20	4.72	<1	32	20	91	6.82	<10	1.64	1817	6	<0.01	10	3580	24	<5	<20	79	<0.01	<10	86	<10	2	19
4	313630	160	<0.2	0.64	195	10	25	5.35	1	32	15	90	6.51	<10	2.14	1910	<1	<0.01	9	3400	6	<5	<20	79	0.02	<10	100	<10	<1	23
5	313631	190	1.0	0.86	255	5	<5	5.41	1	33	28	93	7.51	<10	2.27	2047	1	<0.01	13	3330	22	<5	<20	84	0.03	<10	100	<10	<1	29
6	313632	150	<0.2	0.59	445	<5	<5	5.76	3	28	6	84	6.18	<10	2.08	2071	7	0.01	11	4060	6	<5	<20	124	0.01	<10	100	<10	<1	22
7	313633	155	3.0	0.20	80	<5	<5	3.17	<1	9	10	49	2.54	<10	1.07	1261	1	<0.01	<1	820	18	<5	<20	55	<0.01	<10	14	<10	<1	15
8	313634	280	<0.2	0.17	195	<5	<5	3.89	<1	13	2	59	3.46	<10	1.30	1369	5	<0.01	3	1590	6	<5	<20	65	0.02	<10	36	<10	<1	14
9	313635	180	<0.2	0.48	205	5	<5	5.47	1	30	6	79	6.25	<10	1.72	2041	4	<0.01	15	3230	14	<5	<20	87	<0.01	<10	114	<10	1	19
10	313636	100	<0.2	0.43	80	10	<5	4.26	<1	23	11	112	4.75	<10	1.32	1711	1	<0.01	3	2000	18	<5	<20	62	0.01	<10	71	<10	1	17
11	313637	105	<0.2	0.29	220	<5	<5	2.62	<1	17	4	88	4.29	<10	0.75	957	<1	<0.01	1	1960	2	<5	<20	52	0.03	<10	50	<10	2	8
12	313638	90	0.6	0.50	660	<5	10	4.50	3	36	10	137	8.23	<10	1.44	1452	11	<0.01	9	4680	8	<5	<20	116	0.01	<10	114	<10	1	21
QC DATA:																														
Resplit:																														
R/S 1	313627	200	<0.2	0.32	105	5	10	5.22	<1	16	17	102	4.43	<10	1.65	2347	<1	<0.01	2	2110	10	<5	<20	77	<0.01	<10	57	<10	1	19
Repeat:																														
1	313627	190	<0.2	0.26	125	5	10	5.06	<1	17	16	101	4.41	<10	1.55	2161	<1	<0.01	2	2120	24	<5	<20	69	0.01	<10	57	<10	1	19
10	313636	105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard:																														
GEO'96		150	1.4	1.72	70	155	<5	2.03	<1	21	75	91	4.27	<10	0.98	720	<1	<0.01	25	730	18	<5	<20	60	0.15	<10	80	<10	5	81

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

df/5230
XLS/96HAYDEN

12-Sep-96

ECO-TECH LABORATORIES LTD.
10041 East Trans Canada Highway
KAMLOOPS, B.C.
V2C 6T4

Phone: 604-573-5700
Fax : 604-573-4557

ICP CERTIFICATE OF ANALYSIS AK 96-5231

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

ATTENTION: D.GUNNING

No. of samples received: 11
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	313639	>1000	0.4	0.37	480	5	<5	5.05	2	22	7	178	5.92	<10	1.83	2157	<1	<0.01	6	2030	20	<5	<20	78	<0.01	<10	64	<10	1	17
2	313640	420	1.2	0.55	285	5	10	2.40	2	27	14	194	6.10	<10	0.79	1121	10	<0.01	6	2400	18	<5	<20	56	<0.01	<10	71	<10	<1	27
3	313641	135	2.4	0.41	215	5	15	1.67	2	24	3	143	6.05	<10	0.45	1173	19	<0.01	6	2150	18	<5	<20	45	0.02	<10	43	<10	2	15
4	313642	45	<0.2	0.73	205	15	<5	1.83	1	28	11	172	6.14	<10	0.69	2787	9	0.01	6	2440	20	<5	<20	67	0.01	<10	86	<10	2	41
5	313643	90	<0.2	0.96	270	<5	<5	5.08	4	25	3	260	8.51	<10	1.98	2889	<1	<0.01	6	2090	36	<5	<20	139	<0.01	10	86	<10	2	48
6	313644	85	<0.2	0.54	80	<5	<5	4.40	<1	25	16	122	6.58	<10	1.26	1570	6	<0.01	5	2640	14	<5	<20	130	0.02	<10	79	<10	2	34
7	313645	95	<0.2	0.42	65	<5	<5	3.56	<1	22	21	95	6.09	<10	1.04	1415	11	<0.01	4	2360	14	<5	<20	80	<0.01	<10	71	<10	2	72
8	313646	170	<0.2	0.40	225	<5	<5	5.55	<1	40	32	162	7.20	<10	1.60	1482	95	0.02	10	2840	38	<5	<20	151	0.01	<10	86	<10	2	23
9	313647	400	0.8	0.30	275	<5	<5	7.05	1	34	24	116	6.82	<10	2.17	1969	111	0.02	13	2780	14	<5	<20	204	<0.01	<10	71	<10	2	21
10	313648	425	<0.2	0.34	175	<5	10	4.81	2	23	24	139	5.77	<10	1.35	1628	25	<0.01	3	1980	10	<5	<20	108	0.01	<10	57	<10	2	62
11	313649	100	3.0	1.18	30	85	<5	1.58	<1	17	55	61	3.24	<10	0.73	628	<1	<0.01	16	590	10	<5	<20	36	0.10	<10	86	<10	<1	57
QC DATA:																														
Resplit:																														
R/S 1	313639	>1000	0.6	0.32	410	<5	<5	5.26	<1	21	12	184	6.17	10	1.96	2080	1	0.02	4	1870	20	<5	<20	82	<0.01	<10	57	<10	1	25
Repeat:																														
1	313639	>1000	<0.2	0.35	440	<5	<5	5.09	2	23	8	164	5.85	<10	1.77	2103	2	<0.01	6	1960	22	<5	<20	73	0.01	<10	71	<10	2	17
10	313648	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard:																														
GEO'96		145	1.0	1.75	70	150	<5	2.14	3	23	60	82	4.04	<10	1.02	720	2	<0.01	18	720	22	<5	<20	64	<0.01	<10	86	<10	4	72

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XLS/96HAYDEN

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12-Sep-96

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ICP CERTIFICATE OF ANALYSIS AS 96-5232

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

ATTENTION: D.GUNNING

No. of samples received: 12
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	313650	95	<0.2	0.49	45	5	15	4.64	<1	35	6	132	6.40	<10	1.78	2008	12	0.01	13	3130	12	<5	<20	140	0.01	<10	67	<10	2	25
2	313506	180	0.4	0.67	95	5	25	6.94	2	29	5	115	6.63	40	2.59	2048	34	0.06	5	4480	8	<5	<20	317	0.02	<10	50	<10	2	60
3	313507	50	0.4	1.11	55	25	<5	4.83	<1	13	14	200	4.80	<10	1.53	1152	15	0.02	5	4540	2	<5	<20	234	<0.01	<10	83	<10	2	32
4	313508	105	<0.2	0.82	65	15	30	4.05	<1	15	13	236	6.19	<10	1.34	1403	4	0.02	5	3880	6	<5	<20	133	0.02	<10	67	<10	3	29
5	313509	110	<0.2	0.47	65	10	25	>10	<1	44	9	169	9.08	<10	2.33	2812	20	0.02	17	7070	30	<5	<20	281	0.02	<10	83	<10	2	70
6	313510	605	<0.2	0.50	185	10	80	>10	2	55	6	276	>10	<10	4.42	2846	73	0.03	21	9610	34	<5	<20	244	<0.01	10	67	<10	2	79
7	313511	235	0.4	0.29	5	10	<5	>10	<1	35	<1	95	7.42	<10	1.10	1517	19	<0.01	13	4990	<2	<5	<20	224	0.01	<10	42	<10	1	25
8	313512	100	<0.2	0.75	65	5	10	8.11	<1	33	28	231	6.69	<10	0.25	1541	15	0.02	16	4510	16	<5	<20	205	0.02	<10	75	<10	2	38
9	313513	250	<0.2	0.77	120	10	<5	6.35	<1	23	28	238	7.36	<10	1.30	2366	15	0.01	7	4720	12	<5	<20	147	0.01	<10	83	<10	3	51
10	313514	140	<0.2	0.64	90	15	<5	7.71	<1	20	20	261	5.81	<10	0.35	1606	42	0.02	7	4740	10	<5	<20	373	0.01	<10	75	<10	2	57
11	313515	100	<0.2	0.46	65	10	<5	4.57	<1	12	30	160	3.69	<10	0.24	960	11	0.01	2	2410	20	<5	<20	124	0.02	<10	50	<10	2	41
12	313516	125	1.0	0.68	50	20	10	9.38	<1	17	32	189	4.69	<10	0.59	2096	9	0.02	3	2990	18	<5	<20	394	<0.01	<10	83	<10	2	57
QC DATA:																														
Resplit:																														
R/S 1	313650	110	<0.2	0.54	60	10	25	4.84	<1	45	10	142	6.70	10	1.91	2118	15	0.02	16	3210	18	<5	<20	160	0.04	10	72	<10	3	30
Repeat:																														
1	313650	100	<0.2	0.62	55	10	25	5.00	<1	42	8	140	7.25	<10	1.89	2179	16	0.02	17	3210	14	<5	<20	180	<0.01	10	74	<10	3	30
10	313514	165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Standard:																														
GEO'96		150	1.4	1.80	75	170	<5	2.01	<1	22	72	82	4.02	<10	1.10	720	<1	<0.01	24	720	18	<5	<20	65	0.12	<10	90	<10	5	72

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12-Sep-96

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ICP CERTIFICATE OF ANALYSIS AK 96-5233

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

ATTENTION: D.GUNNING

No. of samples received: 12
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	313517	90	<0.2	0.43	70	20	<5	>10	1	15	17	151	3.60	40	0.16	2412	20	0.06	4	2210	16	<5	<20	575	0.02	<10	50	<10	3	184
2	313518	95	<0.2	0.28	70	70	15	>10	3	19	<1	223	6.69	180	0.10	4072	184	0.19	5	1340	38	<5	<20	724	0.01	<10	50	<10	2	651
3	313519	415	<0.2	0.34	225	5	10	6.10	<1	27	10	272	7.81	<10	0.11	1545	14	0.01	2	2300	24	<5	<20	207	0.05	<10	42	<10	3	57
4	313520	395	0.4	0.40	205	10	35	>10	3	23	11	101	5.83	150	0.12	1727	57	0.16	3	2650	12	<5	<20	459	<0.01	<10	58	<10	2	105
5	313521	175	2.2	0.65	120	25	<5	6.32	2	16	21	183	5.15	40	0.19	1629	34	0.06	3	3230	18	<5	<20	258	<0.01	<10	58	<10	2	98
6	313522	85	0.8	0.75	80	30	25	4.87	<1	15	21	136	4.83	20	0.50	1780	26	0.03	2	3650	8	<5	<20	205	0.02	<10	67	<10	2	86
7	313523	130	<0.2	0.64	135	25	<5	4.81	1	23	25	166	5.53	90	0.63	1944	130	0.10	5	3930	28	<5	<20	4559	0.02	<10	83	<10	2	168
8	313524	120	1.6	0.49	95	15	15	6.44	1	30	21	166	6.85	30	1.04	1976	126	0.05	9	3350	38	<5	<20	3226	<0.01	<10	67	<10	2	168
9	313525	210	2.0	0.62	135	20	15	5.70	2	17	18	219	6.62	<10	1.36	2081	47	0.03	4	4120	18	<5	<20	2901	<0.01	<10	83	<10	2	98
10	313526	130	<0.2	0.47	85	15	25	4.46	<1	15	23	137	4.78	<10	1.14	1626	20	0.01	3	3370	12	<5	<20	1840	<0.01	<10	58	<10	2	44
11	313527	115	3.6	0.40	160	10	35	3.79	2	28	9	148	5.43	50	1.43	2053	123	0.07	9	2610	76	<5	<20	2347	<0.01	<10	33	<10	2	63
12	313528	235	<0.2	0.24	320	<5	20	2.26	4	28	11	196	6.06	40	0.85	1223	68	0.04	10	2570	56	<5	<20	1306	0.01	10	50	<10	<1	324
QC DATA:																														
Resplit:																														
R/S 1	313517	90	0.8	0.53	70	15	<5	9.06	<1	10	10	140	3.40	30	0.10	2380	10	0.02	4	2110	14	<5	<20	550	<0.01	<10	40	<10	1	170
Repeat:																														
1	313517	90	0.2	0.56	75	15	20	>10	1	13	18	135	3.54	40	0.14	2380	15	0.05	5	2120	18	<5	<20	525	<0.01	<10	50	<10	2	176
Standard:																														
GEO'96		150	0.8	1.75	60	160	<5	1.80	<1	20	70	60	4.10	<10	1.06	710	3	<0.01	22	710	20	<5	<20	60	0.10	<10	82	<10	4	74

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12-Sep-96

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ICP CERTIFICATE OF ANALYSIS AS 96-5234

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

ATTENTION: D.GUNNING

No. of samples received: 13
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
1	313529	645	3.6	0.23	430	<5	25	1.60	8	30	19	163	8.85	<10	0.42	991	156	<0.01	9	2790	48	<5	<20	901	<0.01	10	37	<10	<1	38
2	313530	205	2.4	0.32	320	10	25	4.90	13	22	18	121	6.18	<10	0.78	1498	43	<0.01	3	2510	46	<5	<20	689	0.01	<10	37	<10	1	937
3	313531	165	1.4	0.26	180	10	25	3.67	3	17	6	126	4.89	70	1.32	2070	132	0.09	<1	2330	26	<5	<20	1687	<0.01	<10	37	<10	2	58
4	313532	95	13.4	0.25	135	10	40	>10	2	14	3	70	3.15	300	0.18	1819	227	0.34	2	1570	114	<5	<20	1024	<0.01	<10	37	<10	1	56
5	313533	240	1.0	0.28	365	<5	40	4.99	6	31	9	92	7.73	<10	0.38	1254	57	0.02	11	3530	42	<5	<20	250	<0.01	<10	52	<10	1	31
6	313534	280	0.6	0.37	305	15	30	2.84	5	26	9	94	7.21	60	0.65	1764	162	0.08	8	3150	52	<5	<20	2636	<0.01	<10	52	<10	1	124
7	313535	180	0.4	0.30	170	<5	30	2.72	3	21	14	55	5.33	<10	0.58	1512	56	0.02	2	2000	26	<5	<20	440	<0.01	<10	37	<10	1	27
8	313536	230	1.4	0.30	155	5	30	1.33	2	18	22	46	5.49	10	0.27	1016	72	0.03	3	1860	30	<5	<20	1204	0.01	<10	37	<10	<1	20
9	313537	260	<0.2	0.32	125	5	30	2.36	<1	15	12	76	4.20	30	0.69	1426	32	0.04	<1	1800	14	<5	<20	890	0.01	<10	52	<10	2	30
10	313538	405	<0.2	0.27	315	10	35	9.48	7	28	16	77	6.56	60	0.21	1247	57	0.08	12	2950	54	<5	<20	987	<0.01	<10	67	<10	<1	36
11	313539	360	0.4	0.45	320	10	10	5.32	6	32	5	109	7.43	<10	1.50	2063	13	<0.01	11	3230	18	<5	<20	868	0.02	<10	81	<10	2	31
12	313540	235	0.2	0.42	190	<5	15	2.59	4	25	5	83	5.03	<10	0.51	1148	7	<0.01	9	2680	4	<5	<20	68	0.01	<10	67	<10	1	13
13	313541	380	<0.2	0.31	385	<5	30	7.78	7	31	<1	136	6.62	<10	0.67	1870	11	<0.01	9	4000	16	<5	<20	151	<0.01	<10	52	<10	2	157
QC DATA:																														
Resplit:																														
R/S 1	313529	440	3.8	0.20	395	<5	15	1.72	8	32	17	159	9.22	<10	0.42	1053	172	<0.01	8	2660	54	<5	<20	897	<0.01	10	10	<10	<1	36
Repeat:																														
1	313529	635	3.8	0.24	430	<5	15	1.60	8	32	20	154	9.73	<10	0.44	1080	172	<0.01	10	2820	52	<5	<20	952	0.01	10	37	<10	<1	38
Standard:																														
GEO'96		-	1.2	1.70	70	155	5	1.87	1	20	64	78	4.03	<10	0.96	757	<1	<0.01	20	770	20	<5	<20	60	0.12	<10	81	<10	5	65

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ICP CERTIFICATE OF ANALYSIS AS 96-5235

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

ATTENTION: D.GUNNING

No. of samples received: 16
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

Values in ppm unless otherwise reported

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Tl %	U	V	W	Y	Zn
1	313542	250	1.0	0.41	230	<5	<5	4.87	4	29	15	91	6.32	<10	1.02	2052	20	<0.01	7	3450	12	<5	<20	175	0.02	<10	96	<10	2	22
2	313543	240	<0.2	0.42	130	10	5	3.27	2	26	12	88	4.34	<10	0.32	1911	14	0.01	6	2550	12	<5	<20	93	<0.01	<10	37	<10	1	27
3	313544	340	<0.2	0.30	355	5	10	4.55	3	26	8	91	5.06	<10	0.59	1496	4	<0.01	7	1700	30	<5	<20	115	<0.01	<10	52	<10	1	36
4	313545	135	<0.2	0.38	220	5	10	6.38	6	30	6	155	5.44	<10	0.59	2161	4	<0.01	9	2120	32	<5	<20	105	<0.01	<10	22	<10	2	366
5	313546	5	0.6	0.44	<5	15	25	9.28	<1	19	3	57	6.12	<10	1.12	2747	<1	<0.01	5	4630	<2	<5	<20	231	0.03	<10	81	<10	<1	38
6	313547	20	<0.2	0.30	30	<5	15	5.94	<1	14	10	29	4.35	<10	0.73	2117	<1	<0.01	<1	2420	12	<5	<20	77	0.03	<10	67	<10	1	18
7	313548	55	<0.2	0.32	20	10	<5	5.53	<1	16	4	69	4.12	<10	0.71	2142	<1	<0.01	3	2200	4	<5	<20	74	0.02	<10	37	<10	1	25
8	313549	105	<0.2	0.22	35	<5	5	8.31	<1	11	<1	78	3.44	<10	0.96	1541	<1	<0.01	<1	1950	6	<5	<20	653	0.04	<10	37	<10	2	52
9	313550	105	1.2	0.31	75	<5	75	8.12	<1	26	12	86	5.92	<10	1.05	2270	2	<0.01	6	4510	38	<5	<20	147	0.05	10	126	<10	1	24
651 10	313551	70	<0.2	0.17	35	<5	35	8.19	<1	22	2	43	3.44	<10	0.28	1163	2	<0.01	11	2150	4	<5	<20	133	<0.01	<10	37	<10	<1	9
652 11	313552	10	<0.2	0.11	5	<5	<5	6.34	<1	10	2	14	3.39	<10	0.13	899	<1	<0.01	<1	1640	16	<5	<20	94	0.09	<10	15	<10	<1	4
653 12	313553	25	<0.2	0.26	20	15	<5	>10	<1	22	7	52	6.68	<10	0.54	2430	<1	<0.01	8	3380	12	<5	<20	216	<0.01	<10	37	<10	1	17
654 13	313554	10	<0.2	0.32	5	15	20	>10	<1	17	<1	66	5.07	<10	0.10	1263	<1	<0.01	<1	4050	<2	<5	<20	207	0.03	<10	59	<10	1	9
655 14	313555	60	0.8	0.27	40	10	<5	>10	2	19	2	56	6.35	<10	0.49	1985	17	<0.01	12	3030	2	<5	<20	220	<0.01	<10	37	<10	<1	22
656 15	313556	95	<0.2	0.37	70	5	60	6.26	<1	34	14	257	5.24	<10	1.12	2602	23	0.01	6	3390	34	<5	<20	89	0.04	<10	96	<10	2	22
657 16	313557	>1000	0.8	0.44	25	10	15	>10	<1	37	7	93	6.98	<10	1.35	2728	4	0.01	7	5810	8	<5	<20	331	0.03	<10	126	<10	1	38

HAYDEN RESOURCES LTD. ICP CERTIFICATE OF ANALYSIS AK 96-1023 ECO-TECH LABORATORIES LTD.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																														
Resplit:																														
R/S 1	313551	100	0.2	0.42	95	95	5	0.05	<1	16	22	140	6.87	<10	0.04	382	54	0.03	3	4320	14	<5	<20	176	0.02	10	45	<10	<1	189
R/S 36	313586	210	<0.2	0.22	100	10	<5	5.80	<1	17	18	101	3.46	<10	0.48	1136	31	0.01	2	1880	20	<5	<20	80	0.01	<10	43	<10	1	31
R/S 71	313621	590	<0.2	0.18	195	5	<5	3.93	2	17	10	99	4.58	<10	1.38	1530	8	<0.01	2	2360	18	<5	<20	86	<0.01	<10	34	80	1	58
Repeat:																														
1	313551	115	0.6	0.38	85	95	<5	0.03	<1	15	18	137	6.85	<10	0.03	404	52	0.02	4	4370	14	<5	<20	186	<0.01	10	29	<10	<1	184
10	313560	340	<0.2	0.13	140	<5	35	7.57	2	10	<1	410	4.37	320	3.30	2201	150	0.37	1	1280	174	<5	<20	237	<0.01	<10	22	<10	2	162
19	313569	140	1.0	0.18	45	15	<5	5.49	<1	14	14	57	2.95	40	1.67	1438	7	0.07	4	1850	14	<5	<20	1460	<0.01	<10	24	<10	<1	14
36	313586	235	<0.2	0.24	100	10	<5	6.08	<1	17	22	115	3.90	<10	0.52	1228	33	0.01	2	2160	20	<5	<20	88	<0.01	<10	40	<10	1	36
45	313595	390	<0.2	0.27	230	5	15	4.65	<1	29	28	98	6.04	<10	1.79	1960	22	<0.01	11	3250	24	<5	<20	75	0.02	<10	53	<10	2	23
54	313604	205	<0.2	0.18	200	5	<5	4.39	<1	15	25	108	3.84	<10	1.03	1476	49	0.01	5	1330	20	<5	<20	97	<0.01	<10	19	<10	1	34
71	313621	715	0.8	0.18	230	5	5	4.45	2	18	14	111	5.18	<10	1.58	1659	10	<0.01	3	2520	18	<5	<20	96	<0.01	<10	34	110	1	62
Standard:																														
GEO'96		140	1.0	1.68	65	150	5	1.92	<1	23	78	81	4.02	<10	0.98	720	<1	<0.01	22	710	18	<5	<20	52	0.15	<10	85	<10	5	83
GEO'96		150	1.0	1.76	60	115	<5	1.60	<1	18	60	82	3.40	<10	0.87	713	<1	<0.01	25	700	20	<5	<20	57	0.11	<10	86	<10	<1	76
GEO'96		150	1.2	1.61	60	160	<5	1.80	<1	15	54	65	3.82	<10	0.90	692	<1	<0.01	18	640	18	<5	<20	48	0.08	<10	71	10	<1	66

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df/1023f/1023af/1023bf
XLS/96f HaydenRes.

Et #.	Tag #	Au(ppb)	Ag	Al %	As	Ba	Bi	Ca %	Cd	Co	Cr	Cu	Fe %	La	Mg %	Mn	Mo	Na %	Ni	P	Pb	Sb	Sn	Sr	Ti %	U	V	W	Y	Zn
QC DATA:																														
Resplit:																														
R/S 1	313542	250	0.8	0.48	260	<5	<5	4.92	5	30	17	101	6.43	<10	1.10	2120	22	<0.01	9	3810	10	<5	<20	188	0.03	<10	96	<10	2	24
Repeat:																														
1	313542	235	1.0	0.43	250	<5	5	5.10	4	31	18	92	6.46	<10	1.04	2098	22	<0.01	12	3680	15	<5	<20	178	0.02	<10	105	<10	2	25
Standard:																														
GEO'96		150	1.8	1.80	65	160	<5	1.95	1	21	66	71	4.21	<10	0.94	720	<1	<0.01	24	750	22	<5	<20	52	0.15	<10	81	<10	5	67

dl/5234
XLS/96HAYDEN

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Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-1023

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

6-Sep-96

ATTENTION: D.GUNNING

No. of samples received: 81
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: D.GUNNING

ET #.	Tag #	Au (g/t)	Au (oz/t)
26	313576	1.12	0.033
27	313577	1.28	0.037
48	313598	1.41	0.041
60	313610	1.42	0.041
73	313623	1.52	0.044
79	313503	2.55	0.074

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Fax (604) 573-4557

CERTIFICATE OF ASSAY AS 96-5231

7-Sep-96

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

ATTENTION: D.GUNNING

No. of samples received: 11
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

ET #.	Tag #	Au (g/t)	Au (oz/t)
1	313639	1.60	0.047
	QC/DATA:		
	Resplit:		
R/S 1	313639	1.62	0.047

ECO-TECH LABORATORIES LTD.
per Frank J. Pezzotti, A.Sc.T.
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Fax (604) 573-4557

CERTIFICATE OF ASSAY AS 96-5235

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

7-Sep-96

ATTENTION: D.GUNNING

No. of samples received: 16
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: NOT INDICATED

ET #.	Tag #	Au (g/t)	Au (oz/t)
16	313557	2.01	0.059

657

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Fax (604) 573-4557

CERTIFICATE OF ASSAY AK 96-1023a

HAYDEN RESOURCES LTD.
2020-1055 WEST HASTINGS ST.
VANCOUVER, BC
V6E 2E9

13-Sep-96

ATTENTION: D.GUNNING

No. of samples received: 81
Sample type: CORE
PROJECT #: NONE GIVEN
SHIPMENT #: NONE GIVEN
Samples submitted by: D.GUNNING

ET #.	Tag #	Au (g/t)	Au (oz/t)
47	313597	0.86	0.025
49	313599	0.44	0.013

QC DATA:

STD-M		1.35	0.039

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B.C. Certified Assayer

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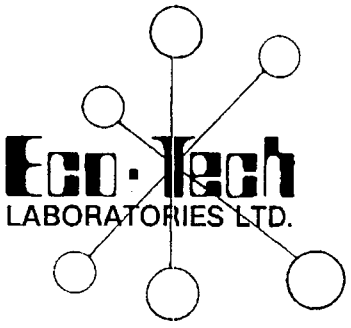
APPENDIX V

ANALYTICAL METHODS

APPENDIX V

ANALYTICAL METHODS



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Fax (604) 573-4557

Analytical Method Assessment for

GOLD ASSAY

Samples are sorted and dried (if necessary). The samples are crushed through a jaw crusher and cone or rolls crusher to -10 mesh. The sample is split through a Jones riffle until a -250 gram subsample is achieved. The subsample is pulverized in a ring & puck pulverizer to 95% -140 mesh. The sample is rolled to homogenize.

A 1/2 or 1.0 A.T. sample size is fire assayed using appropriate fluxes. The resultant dore bead is parted and then digested with aqua regia and then analyzed on a Perkin Elmer AA instrument.

Appropriate standards and repeat sample (Quality Control components) accompany the samples on the data sheet.

correspondence3/methodau.wpw

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Fax (604) 573-4557

Analytical Procedure Assessment Report

MULTI ELEMENT ICP ANALYSIS

Samples are catalogued and dried. Soil samples are screened to obtain a -80 mesh sample. Rock samples are 2 stage crushed to minus 10 mesh and pulverized on a ring mill pulverizer to minus 140 mesh, rolled and homogenized.

A 0.5 gram sample is digested with aqua regia which contain beryllium which acts as an internal standard. The sample is analyzed on a Jarrell Ash ICP unit.

Results are collated by computer and are printed along with accompanying quality control data (repeats and standards). Results are printed on a laser printer and are faxed and/or mailed to the client.

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Fax (604) 573-4557

Analytical Procedure Assessment Report

GEOCHEMICAL GOLD ANALYSIS

Samples are catalogued and dried. Soils are prepared by sieving through an 80 mesh screen to obtain a minus 80 mesh fraction. Rock samples are 2 stage crushed to minus 10 mesh and a 250 gram subsample is pulverized on a ring mill pulverizer to -140 mesh. The subsample is rolled, homogenized and bagged in a prenumbered bag.

The sample is weighed to 10 grams and fused along with proper fluxing materials. The bead is digested in aqua regia and analyzed on an atomic absorption instrument. Over-range values for rocks are re-analyzed using gold assay methods.

Appropriate reference materials accompany the samples through the process allowing for quality control assessment. Results are entered and printed along with quality control data (repeats and standards). The data is faxed and/or mailed to the client.

APPENDIX VI

STATEMENT OF QUALIFICATIONS

I, David R. Gunning of 20356 42A Avenue, Langley, BC, V3A 3B4, declare:

1. I am presently self-employed as a mining engineer.

2. I graduated from the University of British Columbia with a Bachelor of Applied Science (Mining and Mineral Processing option) degree in 1983.

3. I have been practising my profession as a mining engineer continuously for the past 13 years.

4. I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia.

5. This report is based on my personal supervision of the Voigtberg property diamond drill program between August 15-29, 1996, field work performed from September 10 to 14, 1994 as well as the reference material listed in Appendix VI.

Dated at Vancouver, British Columbia,
this____ day of November 1996.

David R. Gunning P. Eng.

APPENDIX VII

REFERENCES

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