

105 D ~~82~~.

X

DOCUMENT NO.: 091976
MINING DISTRICT: Whitehorse
TYPE OF WORK: Geology, Geochemistry

CLAIM NAME & NO.: BEN 1-18 YA95243-YA95260
BEN 23-35 YA97711-YA97723
BEN 38-39 YA97724-YA97725

WORK DONE FOR: All-North Resources Ltd.

DATE TO GOOD STANDING | REMARKS: #104 BEN

GEOLOGY and GEOCHEMISTRY
of the
BEN CLAIMS

Whitehorse Mining District

Location: 1. Bennett Lake Area
2. 105D/12.
3. Latitude: 60 02'N
Longitude: 134 58'W

For
All-North Resources Ltd.
c/o Archer Cathro and Associates (1981) Ltd.
Box 4127, 3125 Third Avenue
Whitehorse, Yukon
Y1A 3S9

By
TOM GARAGAN; B.Sc, FGAC
AURUM GEOLOGICAL CONSULTANTS INC.
604-675 West Hastings Street,
Vancouver, B.C., V6B 4W3

November 16, 1987

091910

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 10,350.

for 
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

SUMMARY

The BEN claims consist of 33 contiguous mineral claims located in the Wheaton River and Bennett Lake area of the Yukon. The claims are located 17 kilometers southwest of Carcross and 35 kilometers southeast of the Mt. Skukum gold-silver mine. Access to the property is via helicopter. Exploration carried out during the 1987 field season consisted of geological mapping, geochemical sampling, baseline establishment and the staking of additional claims.

The claims are underlain by Jurassic to Cretaceous granodiorite, conglomerate and intermediate volcanics which are cut by several east-west faults and Tertiary rhyolite dykes. Large areas of argillic and potassic alteration are associated with many of the faults.

Two precious metal bearing veins, located 1 kilometer apart, have been found on the property. The Gulch vein, a 300 meter long by 1 to 3 meter wide sulphide free quartz vein contains precious metal values up to 6590 ppb gold (approximately 0.2 opt Au) and 78 ppm silver (approximately 2.3 opt Ag). The vein has been rebrecciated several times and occurs within a large area of intense argillic and potassic alteration. The Central Gossan vein consists of a 50 meter long by 0.5 meter wide quartz-graphite vein occurring within a large area of quartz, pyrite and clay alteration (Central Gossan). Precious metal values in this vein are up to >200 ppm silver (>5.8 opt Ag) with low gold.

The Gulch and Central Gossan veins exhibit many characteristics of other epithermal deposits in the region and a major program of geological mapping, detailed geochemical sampling, geophysics and hand trenching is strongly recommended. This program would cost approximately \$110,000.

TABLE OF CONTENTS

	Page #
SUMMARY	i
TABLE OF CONTENTS	i i
INTRODUCTION	1
LOCATION and ACCESS	1
CLIMATE, TOPOGRAPHY and VEGETATION	1
CLAIM STATUS	3
HISTORY	3
REGIONAL GEOLOGY	5
GEOLOGY of the BEN CLAIMS	5
MINERALIZATION and ALTERATION	6
Introduction	6
Gulch Vein	6
Central Gossan Vein	7
EXPLORATION	8
Introduction	8
Stream Sediment Geochemistry	8
Soil Geochemistry	8
Rock Geochemistry	9
CONCLUSIONS and RECOMMENDATIONS	9
REFERENCES	12

<u>List of Figures</u>	<u>Scale</u>	
Figure 1. Location	1:1,000,000	2
Figure 2. Claim Map	1:30,000	4
Figure 3. Geology and Au-Ag Rock Geochemistry	1:10,000	pocket
Figure 4. Soil and Silt Au-Ag Geochemistry	1:10,000	pocket
Figure 5. Gulch Vein: Geology and Geochemistry	1:500	pocket

List of Appendices

Appendix A: Analytical Results	-
Appendix B: Rock Sample Descriptions	
Appendix C: Statement of Qualifications	

INTRODUCTION

This report was prepared at the request of R.J.Cathro of Archer Cathro and Associates (1981) Limited and All-North Resources Ltd. and describes the exploration work carried out on the BEN claims (owned by All North) between June 14 and June 25, 1987. Exploration under the supervision of Aurum Geological Consultants Inc. consisted of geological mapping, baseline establishment, soil, silt and rock geochemistry and the staking of additional claims.

LOCATION and ACCESS

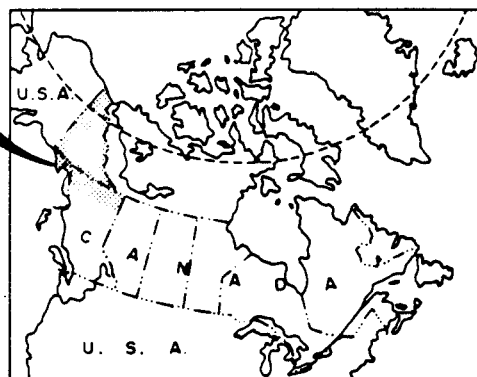
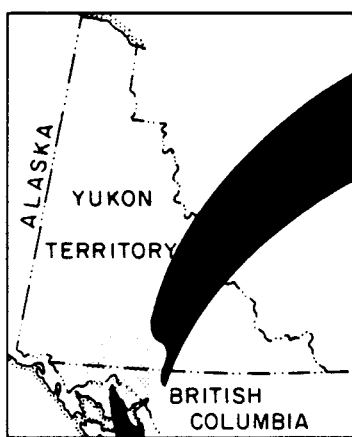
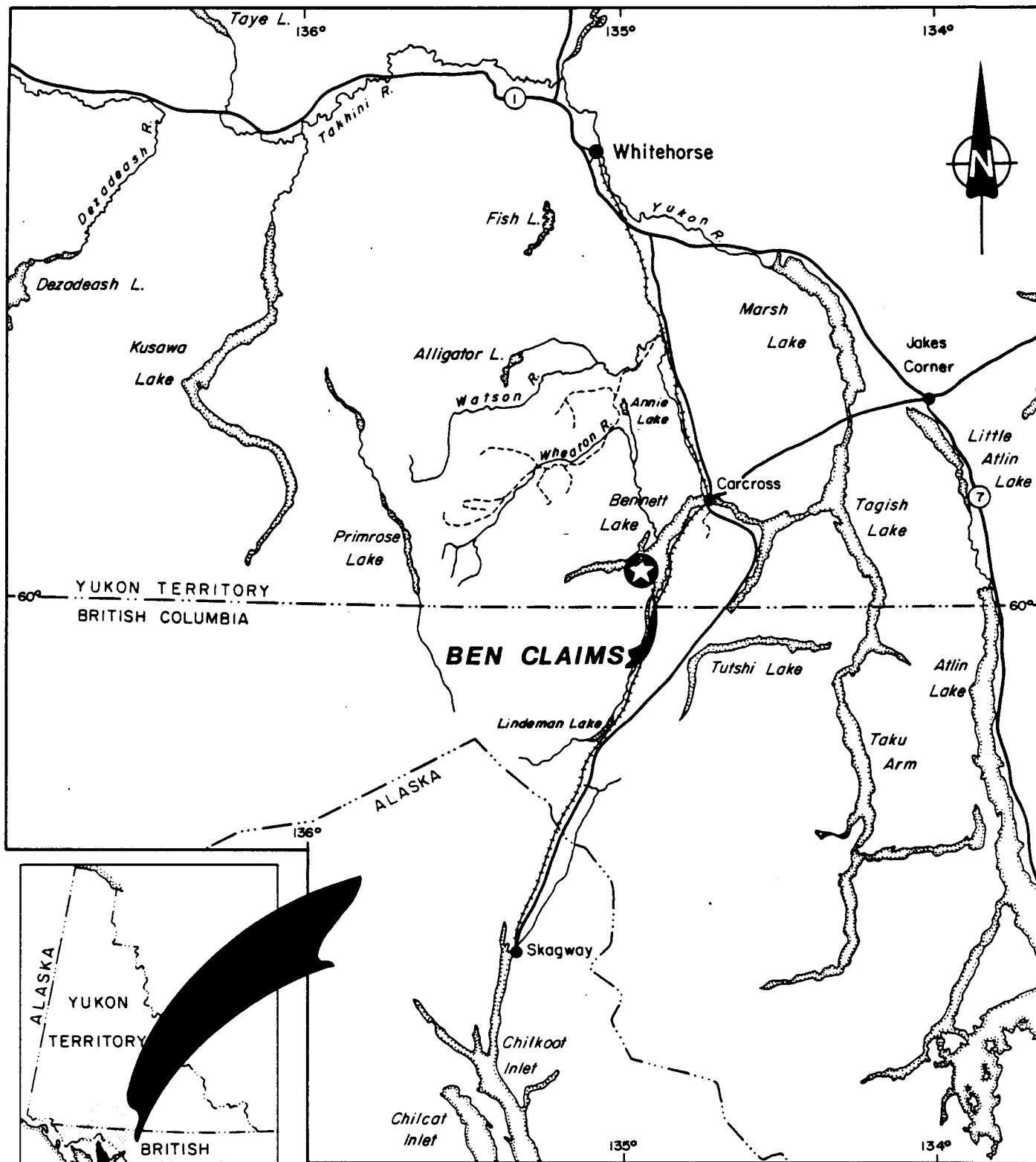
The BEN claims are located 2 kilometers south of the West Arm of Bennett Lake and 1 kilometer east of Munro Lake on the southwest ridge of Finger Mountain in the Bennett Lake Range. The claims are located 17 kilometers southwest of Carcross and 75 kilometers south of Whitehorse. The Mt. Skukum mine is located 35 kilometers to the northwest and the Montana Mountain historic mining area is situated 15 kilometers east of the BEN claims (figure 1).

Access to the property is by helicopter from Whitehorse or a seasonal base at the Mt. Skukum millsite. Alternate access maybe by boat from Carcross.

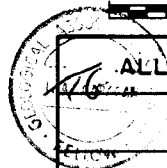
CLIMATE, TOPOGRAPHY and VEGETATION

The climate in the Wheaton River and Bennett Lake area is variable, with cool windy summers and long cold winters. Precipitation is light (approx 40 cm annually), with moderate snowfalls during the winter months. The area is susceptible to periodic high winds from moist Pacific systems rising over the Coast Mountains. Boat travel on Bennett Lake can be treacherous during periods of high wind. The exploration season extends from early June to October.

The topography on the property is steep with elevations varying between 670 meters at Bennett Lake to approximately 1830 meters on the ridge on the south side of the claims. The northwest and west side of the property is underlain by a steep vegetation covered talus slope. Most of the outcrop exposures occur in cliffs near the top of the slopes and within deeply incised northwest trending creek gullies. These creeks drain into Munro Lake, the West Arm and a small unnamed lake at the northwest end of the claims. The southern part of the claims overlie gentle slopes within an alpine cirque.



10km 0 10 20 30 40 50 km



ALL - NORTH RESOURCES LTD.			
BEN CLAIMS			
LOCATION			
Aurum Geological Consultants Inc.			OCTOBER, 1987
Drawn by NH	Scale 1:1,000,000	FIGURE : 1	

Most of the property is above treeline and vegetation consists of alpine grasses, and some stumped willow. Thick alder bush and pine and spruce forest occurs below approximately 1200 meters.

CLAIM STATUS

The BEN claims consisting of 33 contiguous mineral claims staked in 105D-2 in the Whitehorse Mining district. The claims are 100% owned by All-North Resources Ltd. of Vancouver, B.C.

The claim status is tabulated below:

<u>claim name</u>	<u>grant numbers</u>	<u>recording date</u>	<u>expiry date</u>
BEN 1-18	YA95243-260	July 28, 1987	October 28, 1990
BEN 23-35	YA97711-723	June 22, 1987	June 22, 1991
BEN 38,39	YA97724-725	June 22, 1987	June 22, 1991

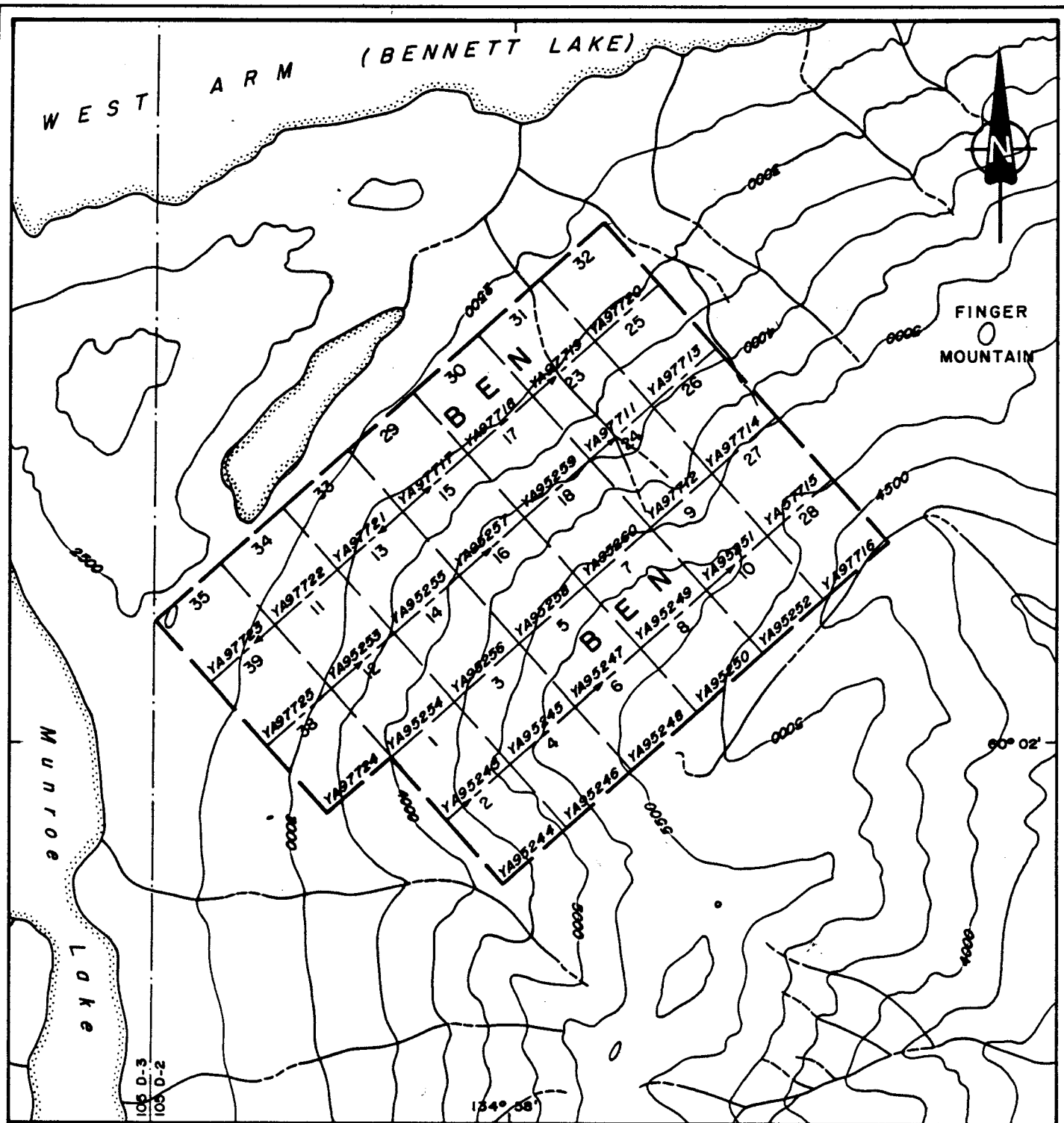
The claim distribution is shown on figure 2.

HISTORY

The first recorded staking in the Wheaton River and Bennett Lake district occurred in 1893 when Frank Corwin and Thomas Rickman located several claims on Carbon Hill, Chieftain Hill, Idaho Hill and possibly Gold Hill. The men died shortly after without disclosing the location of their claims (Cairnes, 1912). Exploration resumed in 1905 with the discovery of silver-gold bearing veins on Montana mountain in 1905 and the discovery of free gold and tellurides on Gold Hill in 1906. Exploration, development and some mining has continued intermittently since then. Activity in the area has dramatically increased recently with the temporary opening of the Venus mine by United Keno Mining Co. in 1980-81 and the discovery of the Mt. Skukum deposit (164,000 tons at 0.73 oz/ton Au and 0.63 oz/ton Ag: Total Erickson 1985 Annual report) in 1981-1983. Mining of the Mt. Skukum deposit commenced in the spring of 1986 at the rate of 300 tons per day.

The BEN 1-18 claims were staked on July 23, 1986 to cover the headwaters of a creek containing an 853 ppb gold (459 ppb gold on reanalysis) silt anomaly from a government geochemical survey (G.S.C. open file 1218). The BEN 23-35, 38 & 39 claims were staked on June 19, 1987.

Old claim posts (circa early 1900's?) located on the northwest side of the claims are the only evidence of previous exploration found on the property.



LEGEND

- ← claim boundary
- ← claim number
- ← tag number
- ← 4WD trail
- ← creek, lake
- ← elevation contour; interval 500 ft.

Note: adapted from D.I.A.N.D. map sheets
105 D-2 & 3

ALL - NORTH RESOURCES LTD.	
BEN CLAIMS	
CLAIM MAP	
Aurum Geological Consultants Inc.	OCTOBER, 1987
NTS 105 D/2	DRAWN BY NH SCALE 1:30,000 FIGURE: 2

REGIONAL GEOLOGY

The BEN claims are located within the Coast Plutonic Complex near it's eastern margin. The regional geology has been well described by Cairnes (1912), Wheeler (1961) and Lambert (1974) and will only be summarized here.

The Coast Plutonic Complex consists of Cretaceous granitoid rocks which intrude and underlie low grade metamorphosed sediments and volcanics of the Mesozoic Whitehorse-Nechako Trough and quartzites, schists and gneisses of the late PreCambrian Early Paleozoic Yukon group. The upper most units of the Trough consist of conglomerate of the U.Jurassic to L.Cretaceous Tantalus formation. These are overlain by subaerial intermediate volcanics of the L.Cretaceous Mt.Nanson group.

Subaerial andesite and rhyolite flows and pyroclastics of the Tertiary Skukum group, occur in 2 isolated areas in the region. The 2 isolated areas, Mt. Skukum and Bennett Lake, have been interpreted to represent paleovolcanic centers (Lambert, 1974, Doherty pers comm, 1982 and Pride, 1985). A well developed ring fracture and dyke system is associated with the Bennett Lake caldera (Lambert, 1974). In addition, several late stage rhyolite and andesite dykes and plugs related to the volcanics, cut the Skukum group volcanics and underlying rocks. The BEN claims are located approximately 10 kilometers east of the Bennett Lake caldera.

The regional northwest structural trend is cut by later Tertiary structures, many of which are northeast to east-west trending.

GEOLOGY of the BEN CLAIMS

The geology of the BEN claims is shown on figure 3, in pocket. The BEN claims are underlain by Upper Jurassic to Lower Cretaceous Tantalus conglomerate and intermediate volcanics interpreted to be part of the Lower Cretaceous Mt. Nanson Group. These are intruded by granodiorite of the Cretaceous Coast Plutonic complex. Tertiary rhyolite and andesite dykes crosscut the older rocks. Several east-west faults cut all units on the property.

The Tantalus conglomerate is preserved in at least two areas along the down dropped south side of an east-west fault in the central part of the property. It is overlain (contacts not exposed) by intermediate Mt.Nanson volcanics. The conglomerate is rusty and grey weathering and consists of predominantly chert and quartz pebble conglomerate with some interbedded siltstone.

The clasts are subrounded to rounded, average 0.2 to 1 cm in diameter and are self supported within the matrix. The conglomerate is usually strongly silicified and contains up to 5% pyrite. The pyritized conglomerate weathers to form prominent gossans. The western most exposure forms part of the central gossan zone (figure 3).

The volcanics are preserved between two east-west trending faults in the central part of the claims and on top of the ridge at the south end of the claims. They are grey to green weathering and usually form cliffs. They are comprised of andesite flows and associated pyroclastics with minor interbedded felsic tuffs. The volcanics are hornfelsed adjacent to the granodiorite contacts and between the two east-west trending faults.

The Cretaceous intrusives consists of a medium grained hornblende-biotite and a K-feldspar megacrystic hornblende granite to granodiorite. The megacrystic granite is pink to grey weathering and only occurs north of the centrally located major east-west trending fault zone. The medium grained hornblende-biotite granodiorite is grey, resistant weathering, and outcrops south of the fault on the west side of the property.

The granodiorite, conglomerate and volcanics are cut by several east-west trending and northwest trending faults. The east-west faults appear to predate the north-south faults, but the extent of offset in either set of faults is not known.

The granodiorite is cut by later east-west and north-south trending fine grained Tertiary rhyolite and andesite dykes. The rhyolite dykes are usually parallel to the east-west faults.

MINERALIZATION and ALTERATION

Introduction

Two areas (Gulch and Gossan) of quartz veining, and several areas of silicification and clay alteration have been found associated with the east-west faults on the property. Only the Gulch and Gossan zones are described below.

Gulch Vein

The Gulch vein occurs in the most southerly of the east-west structures and is located within the granodiorite. It is exposed in outcrop and subcrop in a steep creek gully on the west side of the claims (see figures 3 & 5). It can be traced for at least 300 meters along strike with the east and west extensions covered in overburden.

The vein is from one to three meters wide and consists of a silicified breccia cut by numerous fine grained quartz and chalcedony veinlets. The vein textures indicate several periods of veining and subsequent rebrecciation, typical of epithermal vein systems. A partly sericitized and bleached rhyolite occurs intermittently along the vein. Several rock samples collected along the Gulch vein contain anomalous values. A 1 meter chip sample across the vein near the creek contained 6590 ppb gold (0.2 opt Au) and 78.0 ppm silver (approx. 2.3 opt Ag). A second 1.5 meter chip sample collected 15 meters uphill contained 1450 ppb gold (0.04 opt Au) and 12.4 ppm silver (0.36 opt Ag). The high gold and silver values are associated with moderate enrichment in molybdenum (100 ppm) and lead (44 ppm) with no other associated metals.

The host granodiorite, as is typical near east-west structures on the property, exhibits clay and potassic alteration (introduction of feldspar) as well as silicification. This alteration halo which extends up to 50 meters away from the vein (especially in the hanging wall) may be an effective prospecting target since it is readily distinguishable from barren granodiorite.

The Gulch vein, where best exposed in the creek gully, varies from a more normal "east-west" orientation (actually striking 050, dipping steeply south) to trending 135, dipping steeply southwest. This bend (or splay?) is probably an effect of cross faulting.

Central Gossan Vein

The Central gossan vein is a fine grained quartz vein located near the west side of the Central gossan zone; a large area of rusty weathering pyritized, clay altered and silicified conglomerate and granodiorite located along an east-west fault near the central part of the claims. The vein is exposed for approximately 50 meters and is up to 0.5 meters wide. It cuts granodiorite and conglomerate and contains up to 10% fine grained graphite and possibly pyrite in a seam parallel to the vein margin. Two 0.5 meter chip samples collected from the Central gossan vein contained >200 ppm silver (approx. >5.8 opt Ag) and >10,000 ppm lead with low gold values (40 and 50 ppb Au). Zinc and copper values are up to 800 and 319 ppm respectively. Narrow (1-5 cm) quartz-galena stringers within the volcanics in the same area contain up to 31 ppm silver, 1130 ppm copper, 6510 ppm lead and 180 ppm zinc.

EXPLORATION

Introduction

A total of 16 stream sediment, 18 soil and 33 rock samples were collected on the property. The samples were all analysed for Au by FA+AA and 32 element ICP by CHEMEX LABS of North Vancouver. The gold and silver results for the rocks are plotted on figures 3 & 5; silt and soil on figure 4 & 5, and all results are listed in Appendix A. A 1050 meter long slope corrected base line (pickets every 25 meters) trending 045 was established from the Gulch zone to the Central Gossan for survey control. Three short cross lines were established in the Gulch zone to facilitate mapping.

Stream Sediment Geochemistry

Sixteen stream sediment samples were collected from several of the creeks draining the property and results are shown on figure 4. Samples taken in the creek draining the Gulch showing contain up to 315 ppb gold with 2 other samples contained 95 and 115 ppb gold. Lead and zinc values from the same creek are up to 130 and 183 ppm respectively. Two creeks draining the major east-west fault zone into the lake on the northwest side of the property contain elevated values of gold (up to 35 ppb Au), silver (up to 1.4 ppm Ag), lead (up to 136 ppm Pb) and zinc (up to 162 ppm Zn). The sources of the anomalies are believed to be related to the east-west faults and the Gulch vein.

Soil Geochemistry

Eighty-one soil and talus fines samples were collected at 50 to 400 meter intervals (usually 100 meters) along all of the major slopes on the property. Samples were collected at 5 to 15 meter intervals below outcrops of the Gulch vein and related clay altered granodiorite. Talus fines were also collected along the sides of the gullies. Several samples of talus fines collected below outcrops of the Gulch vein contained gold values greater than 500 ppb with values up to 2800 ppb. The samples are also enriched in silver (up to 8.0 ppm Ag), lead (up to 184 ppm Pb), zinc (up to 182 ppm Zn) and molybdenum (up to 106 ppm Mo).

Talus fine samples collected below and near the silicified conglomerate and granodiorite in the Central Gossan are anomalous in silver (up to 19 ppm), lead (up to 3810 ppm), zinc (up to 774 ppm), copper (up to 126 ppm) and molybdenum (up to 109 ppm). The best gold value is 20 ppb in the same area. The source of this anomaly is not known, but may be related to veins similar to the Central Gossan vein.

Rock Geochemistry

A total of 33 rock samples (both chip and grab) were collected on the property. Most of these samples were taken near the Gulch and Central Gossan veins, as described previously. Metal values from other samples taken from the silicified conglomerate and surrounding areas are low. Rock sample descriptions are located in Appendix B.

CONCLUSIONS and RECOMMENDATIONS

The Ben claims are underlain by Cretaceous granodiorite which has intruded Jurassic to Cretaceous conglomerates and volcanics. These are cut by several east-west trending faults and Tertiary rhyolite and andesite dykes. Large areas of argillic and potassic alteration are associated with the fault zones. In addition, the conglomerates and locally the granodiorite (Gulch & Gossan zones) are silicified. Precious metal mineralization has been found in the Gulch and Central Gossan veins, located on major east-west faults 1 kilometer apart.

The Gulch vein is exposed for 300 meters along strike and is up to 3 meters wide within a large area of argillically altered granodiorite. A parallel rhyolite dyke occurs intermittently along the vein. Chip samples across the vein contain up to 6590 ppb gold and 78.00 ppm silver over 1 meter. Talus fines samples collected below the vein contained up to 2800 ppb and 8 ppm silver and silts collected in the creek draining the vein zone contain up to 315 ppb. The stream sediments and soil samples collected from this zone are also enriched in lead, zinc and molybdenum. Although, the location for the anomalous government stream sediment sample containing 853 ppb Au was never found, it is assumed to have come from the creek draining the Gulch vein.

The total length of the Gulch structure has not been determined and results warrant additional exploration along this structure.

The Central Gossan vein located 1 kilometer east of the Gulch vein consists of a narrow (0.5 meter) quartz-pyrite vein exposed for 50 meters. The vein occurs within a wide halo of clay alteration, silicification and fracturing within the granodiorite and conglomerate along a major east-west fault zone. Silver and lead values within the vein are >200 ppm silver and >10,000 ppm lead and soil geochemistry values in the same area are up to 19 ppm silver, 3810 ppm lead, 774 ppm zinc, 126 ppm copper and 109 ppm molybdenum. The anomalous soil values occurring away from the vein zone suggest the presence of

additional mineralization. More mapping and sampling is required in this area.

The Gulch and Central gossan veins exhibit several characteristics typical of epithermal deposits known to occur in the Wheaton River and Montana Mountain districts. The characteristics consist of large zones of clay alteration, silicification, repetitive veining and brecciation, associated prominent fault zones and Tertiary dyking. Rock, talus, soil and silt anomalies suggest the presence of other zones of mineralization. A followup program consisting of geological mapping, geochemical sampling, geophysics and hand trenching followed by bulldozer trenching and diamond drilling (contingent on results) is strongly recommended. Exploration should be concentrated around the Gulch and Central Gossan veins. The following 2 phase program and budget is recommended. Phase II is contingent on phase I results.

Phase I

1. Detailed geological mapping, prospecting and rock sampling around the Gulch & Central gossan vein areas and along potential strike extensions. Other fault zones should be mapped and prospected in more detail.
2. Establishment of soil grids (25 by 25 meter using existing baseline) in the Gulch and Central Gossan areas to locate strike extensions of the Gulch and Central veins underneath the overburden and other veins in the area.
3. VLF-EM and magnetometer surveys across the veins and along strike. Detailed VLF-EM and ground magnetometer surveys have been successful in locating other sulphide free veins within the Wheaton River district.
4. Hand trenching and blasting to expose the veins in areas of no or poor outcrop.
5. Reconnaissance scale mapping, prospecting and sampling in unexplored parts of the property.

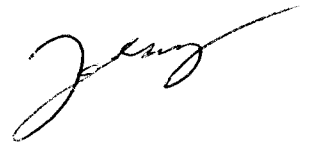
The following budget is anticipated for this program.

Geology and Prospecting	\$ 15,000
Grid Establishment	10,000
Geochemistry	25,000
Geophysics	10,000
Helicopter	15,000
Trenching	15,000
Camp Costs	5,000
Data Compilation and Report Writing	<u>5,000</u>
Subtotal	100,000
Contingency (plus 10%)	<u>10,000</u>
Total Budget	\$110,000

The extent and nature of a Phase II program would depend on the results of the phase I program. A minimum program of 1000 meters of NQ diamond drilling and further trenching is anticipated. To facilitate drill site preparation and trenching, a bulldozer should be barged to the property. Alternatively, a bulldozer could be walked into the property during the winter in an anticipation of a diamond drill program.

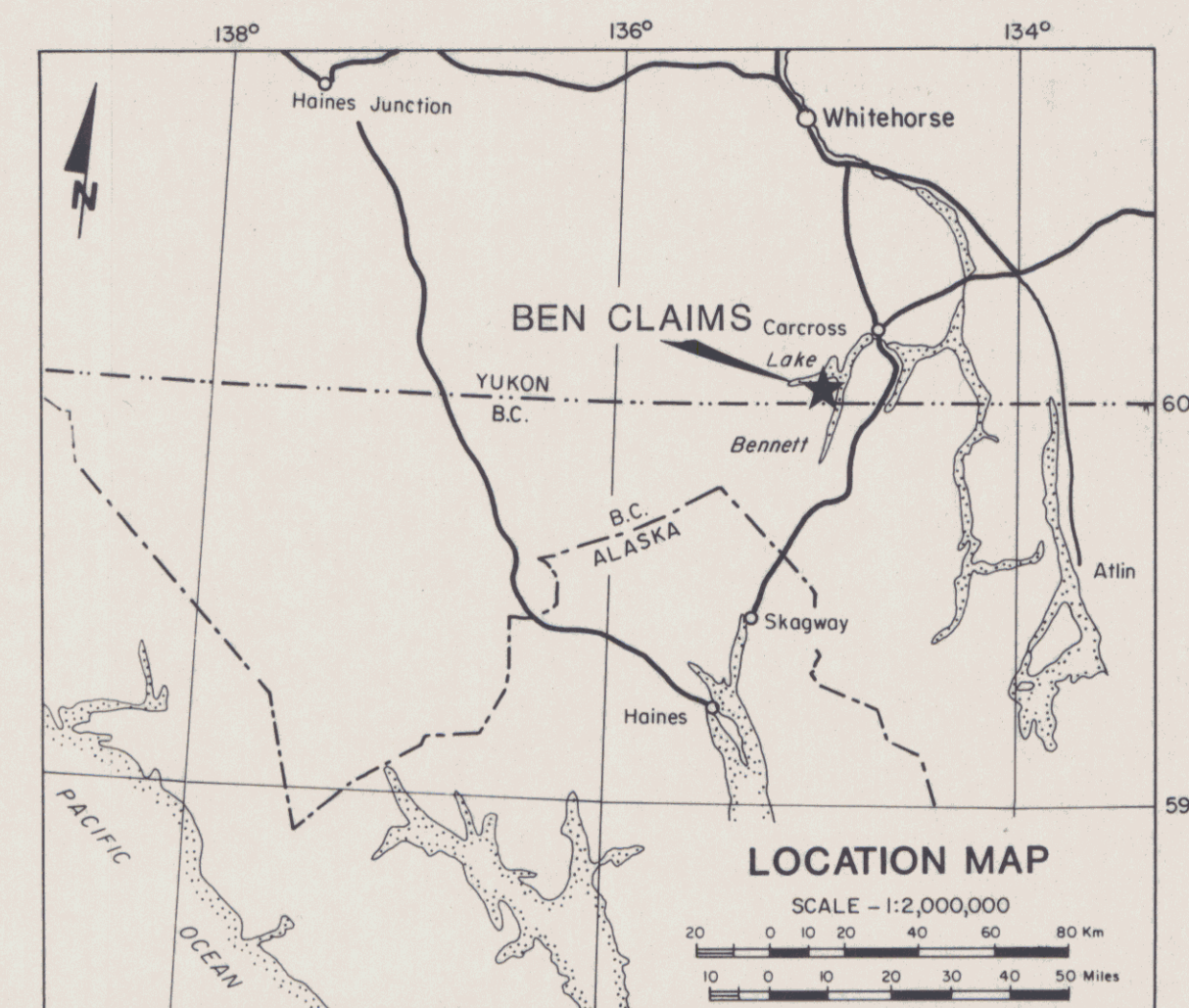
The cost of a 1000 meter drill program would be approximately:

Geology; drill supervision	\$ 10,000
Geochemistry	5,000
Cat Trenching and Site Preparation	15,000
Barge (??)	10,000
Helicopter	40,000
Diamond Drilling (\$100/meter)	100,000
Camp Costs (included in drill contract)	-
Report Writing	<u>5,000</u>
Subtotal	185,000
Contingency (plus 10%)	<u>18,500</u>
Total Budget	\$ 203,500



REFERENCES

- Cairnes, D.D., 1912: Wheaton District, Yukon Territory, G.S.C. Memoir 31.
- Lambert, M.B., 1974: The Bennett Lake Cauldron Subsidence Complex, British Columbia and Yukon Territory, G.S.C. Bulletin 227.
- Pride, M.J., 1985: Preliminary Geological Map of the Mt. Skukum Volcanic Complex, 105D 2,3,4,5. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, O.F. 1:25,000 scale map
- Wheeler, J.O., 1961: Whitehorse Map Area, Yukon Territory, 105D. Memoir 312.



LEGEND

- TERTIARY
- 5 Andesite dykes
- 4 Rhyolite dykes
- L. CRETACEOUS
- 3 Granodiorite, granite
- U. JURASSIC to L. CRETACEOUS
- 2 Mt. Nansen intermediate volcanics
- 1 Tantalus formation conglomerate

SYMBOLS

- Fault
- Geological contact (defined, assumed)
- 10° Bedding: Tantalus conglomerate
- Quartz vein
- Gossan
- 55, 2200 0.5 m Rock sample location Au (ppb), Ag (ppm) interval (chip samples only)
- ⊕ Claim post location (approximate)
- Claim boundary

6000 METRE SPHERICAL MOUNTAINS

TITLE:
Ben Property Geology
From Assessment Reports
091976 by T. Garwood



Figure 1

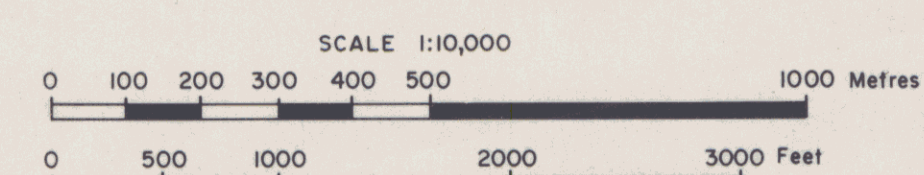
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GEOLOGY AND Au-Ag ROCK GEOCHEMISTRY

BEN CLAIMS

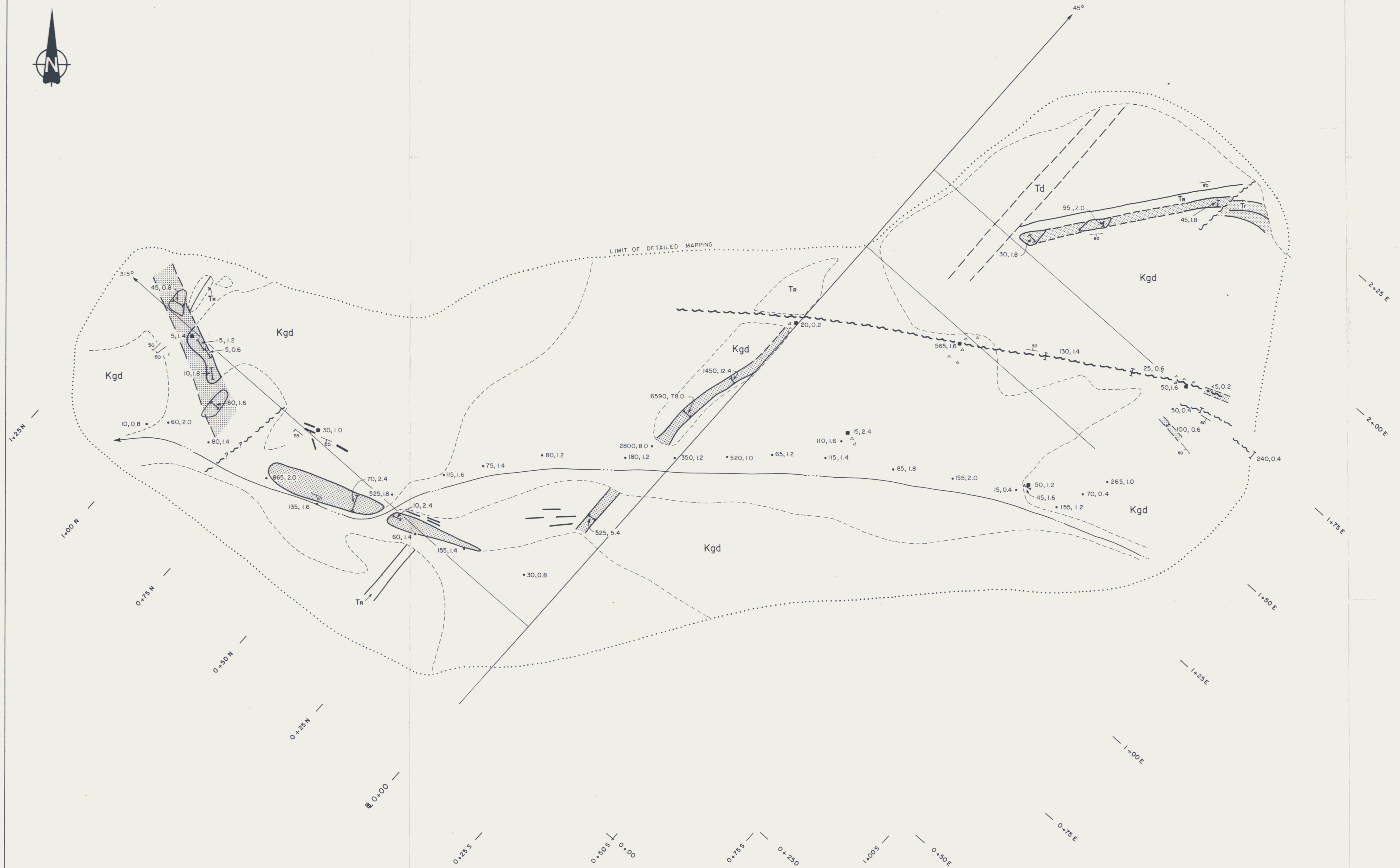
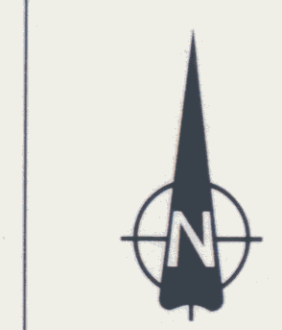
ALL-NORTH RESOURCES LTD.

091976



To accompany report dated

1179



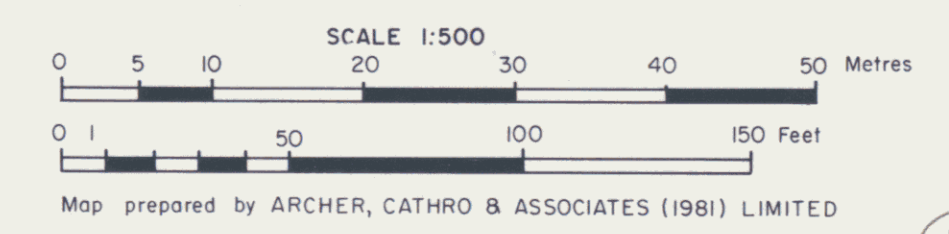
LEGEND

- TERTIARY**
- Tr Rhyolite dyke
 - Td Dacite dyke
- CRETACEOUS**
- Kgd Granodiorite (clay altered)
- Geological contact (defined, assumed)
- Quartz veining in talus
 - Quartz vein
 - Approximate outcrop
 - Fault
 - Veining (inclined) and faulting
 - Jointing (inclined)
- 155, 1.2 Soil sample location - Au (ppb), Ag (ppm)
- 50, 1.2 Rock sample location - Au (ppb), Ag (ppm)
- 1450, 12.4 Chip sample location - Au (ppb), Ag (ppm)



Figure 5
AURUM GEOLOGICAL CONSULTANTS INC.

GEOLOGY AND Au, Ag GEOCHEMISTRY
GULCH SHOWING
BEN CLAIMS
ALL-NORTH RESOURCES LTD.



APPENDIX A
ANALYTICAL RESULTS



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN CLAIMS

Comments: CC: T. GARAGAN

Page No.: 1-A
Tot. Pages: 1
Date: 24-JUN-87
Invoice #: I-8716312
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716312

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	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
7-610005	205 238	< 5	1.20	1.2	55	260	< 0.5	< 2	1.15	< 0.5	8	167	57	1.59	< 10	< 1	0.14	10	0.77	532
7-610006	205 238	< 5	1.17	1.8	50	1330	< 0.5	< 2	4.76	14.0	9	116	97	1.71	< 10	< 1	0.23	< 10	0.85	668
7-610012 (v.w.)	205 238	55	0.50	>200	30	1520	< 0.5	< 2	0.10	13.0	3	231	143	0.64	< 10	9	0.08	< 10	0.08	43
7-810004	205 238	< 5	1.09	8.8	45	90	< 0.5	< 2	0.26	0.5	4	113	9	0.94	< 10	< 1	0.46	10	0.09	189
7-810005	205 238	< 5	0.89	3.6	10	30	< 0.5	< 2	0.20	< 0.5	6	182	8	1.47	< 10	< 1	0.29	10	0.16	441
7-810006	205 238	< 5	1.23	2.0	5	270	1.5	< 2	0.25	< 0.5	8	34	28	3.49	< 10	< 1	0.42	20	0.20	62
7-810007	205 238	< 5	1.48	2.2	15	500	1.0	< 2	0.50	< 0.5	9	54	27	3.19	< 10	< 1	0.38	20	0.19	58
7-910001 (v.w. (r))	205 238	40	0.83	>200	10	1720	< 0.5	< 2	0.18	11.5	4	132	319	1.07	< 10	1	0.33	< 10	0.25	87
7-910002 ✓	205 238	525	0.45	5.4	10	30	< 0.5	< 2	0.17	< 0.5	1	157	9	0.35	< 10	< 1	0.14	< 10	0.02	35
7-910003 ✓	205 238	10	0.30	2.4	15	30	< 0.5	< 2	0.05	< 0.5	2	202	18	0.54	< 10	< 1	0.18	< 10	0.03	102
7-910004 ✓	205 238	1450	0.42	12.4	10	20	< 0.5	< 2	0.03	< 0.5	1	161	5	0.36	< 10	< 1	0.28	< 10	0.01	31
7-920001	205 238	5	1.07	2.2	30	400	0.5	< 2	0.06	< 0.5	1	132	20	1.36	< 10	< 1	0.65	< 10	0.03	20
7-920002	205 238	15	3.14	31.0	< 5	200	1.5	< 2	5.80	20.0	18	44	1130	3.78	< 10	< 1	0.23	< 10	1.83	1615
7-920003	205 238	< 5	0.63	1.0	35	180	< 0.5	< 2	0.05	< 0.5	3	247	18	1.87	< 10	< 1	0.21	< 10	0.04	56
7-920004 ✓	205 238	15	0.44	2.4	5	30	< 0.5	< 2	0.25	< 0.5	1	205	260	0.28	< 10	< 1	0.28	10	0.02	45
7-920005 ✓	205 238	565	0.40	1.6	10	40	< 0.5	< 2	0.05	< 0.5	1	135	14	0.41	< 10	< 1	0.28	10	0.03	36

CERTIFICATION :

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN CLAIMS
Comments: CC: T. GARAGAN

Page No.: 1-B
Tot. Pages: 1
Date: 24-JUN-87
Invoice #: I-8716312
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716312

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
7-610005	205	238	< 1	< 0.01	6	220	18	5	< 10	63	0.02	< 10	< 10	19	5	57
7-610006	205	238	8	0.01	14	350	528	5	< 10	201	0.06	< 10	< 10	36	5	45
7-610012	205	238	8	< 0.01	8	40	>10000	95	10	145	< 0.01	< 10	< 10	5	45	800
7-810004	205	238	1	< 0.01	3	360	314	< 5	< 10	118	< 0.01	< 10	< 10	8	< 5	56
7-810005	205	238	2	< 0.01	6	430	138	5	10	26	0.06	< 10	< 10	14	< 5	55
7-810006	205	238	3	0.05	4	910	44	< 5	< 10	348	0.04	< 10	< 10	11	< 5	24
7-810007	205	238	8	0.04	3	910	44	< 5	< 10	347	0.07	< 10	< 10	13	< 5	19
7-910001	205	238	9	< 0.01	7	90	>10000	40	< 10	138	0.01	< 10	< 10	9	15	649
7-910002	205	238	60	< 0.01	2	40	216	< 5	< 10	22	< 0.01	< 10	< 10	1	< 5	8
7-910003	205	238	34	< 0.01	4	80	138	< 5	< 10	9	< 0.01	< 10	< 10	2	< 5	15
7-910004	205	238	44	< 0.01	2	40	30	< 5	10	32	< 0.01	< 10	< 10	5	< 5	3
7-920001	205	238	7	0.02	1	20	104	< 5	< 10	20	< 0.01	< 10	< 10	7	< 5	8
7-920002	205	238	5	0.01	2	640	6510	10	20	288	0.08	< 10	< 10	63	< 5	180
7-920003	205	238	1	0.01	6	< 10	90	< 5	< 10	18	< 0.01	< 10	< 10	1	< 5	11
7-920004	205	238	15	< 0.01	3	40	52	< 5	< 10	4	< 0.01	< 10	< 10	1	< 5	12
7-920005	205	238	73	< 0.01	3	160	56	< 5	< 10	3	< 0.01	< 10	< 10	2	< 5	7

CERTIFICATION :

Hart Bickler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-1C1

PHONE (604) 984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN CLAIMS
Comments: T. GARAGAN

Page No.: 1-A
Tot. Pages: 2
Date: 24-JUN-87
Invoice #: I-8716311
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716311

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	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
7-650001	201 238	< 5	1.91	0.2	5	860	< 0.5	< 2	0.51	0.5	13	12	33	3.82	< 10	< 1	0.30	30	0.52	1135
7-650002	201 238	< 5	3.73	0.2	< 5	230	< 0.5	< 2	1.05	< 0.5	11	18	33	2.95	10	< 1	0.21	30	0.65	776
7-660001	201 238	< 5	1.86	1.6	< 5	80	< 0.5	< 2	0.78	< 0.5	7	15	12	2.64	< 10	< 1	0.20	30	0.55	542
7-660002	201 238	< 5	2.72	1.4	< 5	60	0.5	2	1.76	0.5	23	~~13~~	28	3.72	10	< 1	0.12	30	2.02	1250
7-660003	201 238	< 5	2.39	0.6	< 5	60	1.0	< 2	1.50	1.0	10	13	21	2.64	10	< 1	0.22	40	0.97	1095
7-660004	201 238	< 5	1.73	0.4	< 5	80	2.0	4	0.96	1.0	6	5	20	1.57	10	< 1	0.33	30	0.59	959
7-660007	201 238	20	1.63	~~0.4~~	< 5	70	0.5	6	1.24	0.5	6	6	30	2.55	10	< 1	0.23	40	0.54	1645
7-660008	201 238	5	2.12	1.0	< 5	100	< 0.5	< 2	1.05	1.0	9	24	34	2.75	10	< 1	0.25	30	0.72	1115
7-660009	201 238	< 5	2.26	1.6	10	60	0.5	2	1.10	1.5	12	17	37	2.78	10	< 1	0.17	30	0.89	1140
7-660010	201 238	5	2.14	~~0.4~~	5	220	1.0	2	0.41	2.0	8	9	~~120~~	3.15	< 10	< 1	0.31	30	0.37	451
7-660011	201 238	< 5	2.94	~~1.0~~	15	350	0.5	2	0.67	6.0	21	64	106	3.96	< 10	< 1	0.38	20	1.35	651
7-660013	201 238	< 5	1.92	1.0	< 5	240	< 0.5	< 2	0.89	4.5	14	21	36	3.18	< 10	< 1	0.23	30	0.78	1225
7-660014	201 238	< 5	1.84	0.6	10	150	< 0.5	2	0.67	1.0	10	17	18	2.60	< 10	< 1	0.14	20	0.64	1030
7-660015	201 238	< 5	2.17	2.4	~~10~~	230	< 0.5	< 2	0.41	1.5	12	13	37	5.55	10	< 1	0.24	20	0.33	253
7-660016	201 238	< 5	1.60	0.1	15	160	0.5	2	0.83	< 0.5	5	15	19	1.11	< 10	< 1	0.62	10	0.45	217
7-660017	201 238	< 5	2.65	0.6	< 5	230	< 0.5	< 2	1.57	1.0	14	21	34	2.97	10	< 1	0.23	40	1.12	1065
7-660018	201 238	5	3.22	2.0	~~10~~	350	< 0.5	2	1.15	4.5	30	9	~~70~~	5.79	10	< 1	0.24	30	0.66	854
7-660019	201 238	< 5	2.40	0.4	5	670	< 0.5	2	0.98	0.5	16	5	~~64~~	3.11	< 10	< 1	0.18	20	0.65	1435
7-660020	201 238	< 5	2.24	0.2	30	600	< 0.5	< 2	0.20	< 0.5	9	6	~~98~~	9.36	10	< 1	0.23	60	0.26	316
7-660021	201 238	< 5	0.88	0.2	5	380	< 0.5	< 2	0.34	< 0.5	14	20	27	5.42	< 10	< 1	0.12	10	0.14	306
7-660022	201 238	< 5	2.19	0.2	< 5	680	0.5	2	0.58	0.5	9	13	34	2.24	< 10	< 1	0.25	20	0.63	872
7-660023	201 238	< 5	2.01	0.2	< 5	220	0.5	4	0.58	< 0.5	11	29	19	2.75	10	< 1	0.16	30	0.90	849
7-660024	201 238	< 5	2.04	0.2	< 5	190	< 0.5	2	0.89	0.5	14	29	23	2.91	< 10	< 1	0.19	20	0.80	1385
7-660025	201 238	< 5	1.82	0.2	< 5	70	< 0.5	2	0.93	0.5	9	13	10	2.00	< 10	< 1	0.16	20	0.70	714
7-660026	201 238	< 5	2.27	0.2	5	70	0.5	4	1.18	< 0.5	13	24	36	2.76	10	< 1	0.18	20	0.97	532
7-660027	201 238	< 5	2.51	0.2	< 5	50	0.5	< 2	1.28	< 0.5	11	20	21	2.41	10	< 1	0.12	20	0.94	578
7-660028	201 238	< 5	2.11	0.2	< 5	60	0.5	2	1.03	< 0.5	14	40	22	3.01	10	1	0.18	20	1.30	553
7-660029	201 238	< 5	1.53	0.2	20	50	< 0.5	2	0.79	< 0.5	10	34	13	2.53	10	< 1	0.14	20	0.83	373
7-660030	201 238	< 5	2.69	0.2	< 5	90	0.5	2	0.91	< 0.5	18	41	20	3.38	10	< 1	0.15	20	1.29	860
7-660031	201 238	55	1.83	0.2	< 5	110	< 0.5	< 2	0.72	< 0.5	8	17	19	2.61	10	< 1	0.11	20	0.49	498
7-660032	201 238	< 5	2.52	0.2	< 5	120	< 0.5	< 2	0.88	< 0.5	8	19	20	2.52	10	< 1	0.10	20	0.60	470
7-850001	201 238	< 5	1.35	0.6	15	60	< 0.5	2	0.66	1.5	6	21	19	1.97	< 10	< 1	0.07	20	0.39	425
7-850002	201 238	5	2.13	1.2	< 5	80	0.5	< 2	1.96	8.0	10	19	~~98~~	2.19	10	< 1	0.17	30	0.75	1075
7-850003	201 238	35	1.47	0.6	10	40	< 0.5	2	0.74	0.5	8	15	5	2.16	10	< 1	0.12	20	0.70	957
7-860001 - SS	201 238	< 5	1.97	1.4	< 5	70	0.5	2	1.31	0.5	8	12	10	2.26	10	< 1	0.16	20	0.74	1415
7-860002 - SS	201 238	30	1.62	1.0	< 5	70	< 0.5	< 2	0.93	1.0	6	10	8	1.84	10	< 1	0.20	30	0.48	1380
7-860003	201 238	10	2.54	2.4	15	700	< 0.5	< 2	1.33	6.0	21	9	~~33~~	5.48	10	< 1	0.32	40	0.55	720
7-960001	201 238	< 5	2.07	0.2	< 5	100	< 0.5	< 2	0.81	< 0.5	8	14	12	2.58	10	< 1	0.24	30	0.66	817
7-960002	201 238	< 5	1.77	0.2	< 5	100	< 0.5	4	0.61	< 0.5	8	19	10	2.77	10	< 1	0.14	20	0.58	645
7-960003	201 238	< 5	1.70	0.2	< 5	40	1.5	< 2	1.90	< 0.5	5	3	18	1.11	10	< 1	0.35	40	0.55	609

CERTIFICATION :

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN CLAIMS
Comments: CC: T. GARAGAN

Page No.: 1-B
Tot. Pages: 2
Date: 24-JUN-87
Invoice #: I-8716311
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716311

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
7-650001	201 238	1	0.01	7	1180	36	< 5	< 10	103	< 0.01	< 10	< 10	39	< 5	75
7-650002	201 238	< 1	0.02	11	990	20	< 5	< 10	209	0.15	< 10	< 10	54	< 5	72
7-660001	201 238	2	0.01	7	860	26	< 5	< 10	91	0.09	< 10	< 10	47	< 5	61
7-660002	201 238	< 1	0.01	73	1000	40	< 5	< 10	219	0.22	< 10	< 10	86	< 5	180
7-660003	201 238	6	0.01	7	880	~~107~~	< 5	< 10	241	0.10	10	< 10	53	< 5	114
7-660004	201 238	1	< 0.01	2	570	88	< 5	< 10	267	0.03	< 10	< 10	27	< 5	75
7-660007	201 238	24	0.01	3	710	~~714~~	< 5	< 10	250	0.08	10	< 10	31	< 5	103
7-660008	201 238	< 1	0.01	8	680	146	< 5	< 10	191	0.08	< 10	< 10	50	< 5	107
7-660009	201 238	2	0.02	10	820	~~198~~	< 5	< 10	154	0.09	< 10	< 10	52	< 5	141
7-660010	201 238	~~107~~	0.01	10	1100	~~742~~	5	< 10	417	0.03	10	< 10	29	< 5	180
7-660011	201 238	25	0.01	36	1020	~~1070~~	10	< 10	285	0.18	10	< 10	63	< 5	~~774~~
7-660013	201 238	10	0.01	14	1030	233	< 5	< 10	223	0.10	< 10	< 10	49	< 5	150
7-660014	201 238	6	0.01	9	630	154	< 5	< 10	128	0.07	< 10	< 10	44	< 5	120
7-660015	201 238	25	0.03	20	930	94	< 5	< 10	888	0.03	< 10	< 10	20	< 5	153
7-660016	201 238	5	0.01	13	210	10	< 5	< 10	69	0.06	< 10	< 10	10	< 5	32
7-660017	201 238	< 1	0.01	12	800	56	< 5	< 10	290	0.12	10	< 10	60	< 5	82
7-660018	201 238	57	0.04	15	1440	~~501~~	10	< 10	611	0.08	< 10	< 10	45	< 5	418
7-660019	201 238	3	< 0.01	5	630	56	5	< 10	129	0.06	< 10	< 10	34	< 5	65
7-660020	201 238	2	0.30	6	2880	30	< 5	< 10	542	< 0.01	20	< 10	39	< 5	72
7-660021	201 238	< 1	0.01	9	730	4	< 5	< 10	93	0.04	10	< 10	88	< 5	25
7-660022	201 238	1	0.01	8	900	48	< 5	< 10	61	0.03	< 10	< 10	35	< 5	95
7-660023	201 238	< 1	0.01	14	890	18	< 5	< 10	169	0.09	10	< 10	51	< 5	66
7-660024	201 238	1	0.01	15	1730	28	< 5	< 10	109	0.08	< 10	< 10	54	< 5	89
7-660025	201 238	< 1	0.01	8	870	16	< 5	< 10	79	0.12	10	< 10	32	< 5	73
7-660026	201 238	< 1	0.02	13	890	18	< 5	< 10	160	0.11	10	< 10	62	< 5	62
7-660027	201 238	< 1	0.01	9	850	18	< 5	< 10	113	0.11	10	< 10	56	< 5	62
7-660028	201 238	< 1	0.01	20	980	16	< 5	< 10	95	0.22	< 10	< 10	70	< 5	77
7-660029	201 238	1	0.01	15	970	14	< 5	< 10	52	0.17	10	< 10	59	< 5	58
7-660030	201 238	< 1	0.01	23	1230	18	< 5	< 10	76	0.17	10	< 10	74	< 5	111
7-660031	201 238	1	0.01	8	900	18	< 5	< 10	75	0.15	10	< 10	56	< 5	56
7-660032	201 238	< 1	0.02	14	740	18	< 5	< 10	102	0.14	10	< 10	52	< 5	58
7-850001	201 238	3	0.01	8	700	58	< 5	< 10	118	0.07	10	< 10	41	< 5	67
7-850002	201 238	2	0.01	9	1000	136	< 5	< 10	314	0.09	10	30	43	< 5	162
7-850003	201 238	< 1	0.01	5	540	64	< 5	< 10	171	0.08	10	< 10	38	< 5	126
7-860001	201 238	< 1	0.01	8	900	58	< 5	< 10	418	0.08	< 10	< 10	35	< 5	97
7-860002	201 238	1	0.01	5	570	68	< 5	< 10	360	0.04	10	< 10	30	< 5	88
7-860003	201 238	15	0.06	9	1440	352	< 5	< 10	700	0.07	10	< 10	29	< 5	149
7-960001	201 238	1	0.01	5	870	30	< 5	< 10	87	0.10	10	< 10	48	< 5	63
7-960002	201 238	< 1	0.02	5	600	22	< 5	< 10	63	0.13	10	< 10	58	< 5	56
7-960003	201 238	< 1	< 0.01	6	400	30	< 5	< 10	105	< 0.01	10	< 10	9	< 5	46

CERTIFICATION :

Paul Bickler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN CLAIMS

Comments: CC: T. GARAGAN

Page No.: 2-A
Tot. Pages: 2
Date: 24-JUN-87
Invoice #: I-8716311
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716311

SAMPLE DESCRIPTION	PREP CODE	Au ppb F&AA	Al %	Ag ppm	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
7-960004	201 238	< 5	1.92	< 0.2	10	20	0.5	2	1.37	< 0.5	10	19	16	2.18	10	1	0.14	30	0.93	657
7-960005	201 238	< 5	1.54	0.2	10	50	< 0.5	2	0.83	< 0.5	6	9	10	1.94	10	< 1	0.19	50	0.58	780
7-960006	201 238	< 5	1.95	< 0.2	5	30	0.5	2	1.29	< 0.5	10	16	16	2.25	10	< 1	0.13	20	1.00	647
7-960007	201 238	< 5	1.65	0.2	< 5	20	< 0.5	4	0.93	< 0.5	9	6	15	2.38	10	< 1	0.11	30	0.92	767
7-960008	201 238	< 5	1.98	0.2	< 5	60	< 0.5	4	1.04	0.5	9	18	22	2.66	10	< 1	0.15	30	0.91	785
7-960009	201 238	< 5	3.37	0.8	< 5	60	< 0.5	< 2	2.63	1.5	14	21	46	2.74	20	< 1	0.16	20	1.19	819
7-960010	201 238	< 5	2.09	1.0	5	60	0.5	2	0.90	0.5	11	22	25	2.70	10	< 1	0.19	50	1.04	1035
7-960011	201 238	< 5	2.16	0.6	5	490	< 0.5	2	1.30	1.0	13	15	30	2.82	10	< 1	0.20	30	1.14	794
7-960012	201 238	< 5	3.35	0.2	5	160	< 0.5	< 2	2.54	0.5	18	31	61	3.30	20	< 1	0.14	20	1.45	1085
7-960013	201 238	< 5	0.83	1.0	60	370	< 0.5	< 2	0.14	< 0.5	1	4	43	4.40	< 10	< 1	0.53	30	0.04	53
7-960014	201 238	< 5	2.42	0.6	20	170	< 0.5	< 2	1.05	0.5	8	3	5	3.83	10	< 1	0.16	40	0.51	748
7-960015	201 238	< 5	2.22	0.6	10	120	< 0.5	< 2	1.32	0.5	8	17	21	3.09	10	1	0.18	30	0.60	553
7-960016	201 238	2800	1.42	8.0	35	80	< 0.5	< 2	0.65	0.5	2	3	35	2.42	10	< 1	0.49	50	0.13	269
7-960017	201 238	110	2.54	1.6	15	60	0.5	< 2	2.09	1.0	5	3	18	1.97	10	< 1	0.29	30	0.36	713
7-960018	201 238	5	1.98	< 0.2	< 5	150	< 0.5	< 2	0.90	0.5	6	12	9	2.59	10	< 1	0.15	20	0.48	467
7-960019	201 238	< 5	1.64	< 0.2	< 5	110	< 0.5	< 2	0.85	< 0.5	6	10	13	2.56	10	< 1	0.14	30	0.39	423
7-960020	201 238	< 5	2.78	0.2	< 5	70	< 0.5	< 2	1.86	0.5	8	1	10	2.29	< 10	< 1	0.08	30	0.38	480
7-960021	201 238	< 5	2.99	0.2	< 5	90	< 0.5	< 2	1.80	< 0.5	8	< 1	5	2.23	< 10	< 1	0.10	20	0.44	398

CERTIFICATION :

Hart Bickler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN CLAIMS

Comments: CC: T. GARAGAN

Page No.: 2-B
Tot. Pages: 2
Date: 24-JUN-87
Invoice #: I-8716311
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716311

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
7-960004	201 238	< 1	0.01	9	840	24	< 5	< 10	126	0.13	< 10	< 10	47	< 5	62
7-960005	201 238	< 1	0.01	3	600	16	< 5	< 10	71	0.06	10	< 10	34	< 5	57
7-960006	201 238	< 1	< 0.01	8	860	12	5	< 10	149	0.15	< 10	< 10	49	< 5	65
7-960007	201 238	< 1	0.01	2	870	28	< 5	< 10	72	0.02	10	< 10	50	< 5	69
7-960008	201 238	< 1	0.01	10	800	60	< 5	< 10	102	0.14	10	< 10	60	< 5	69
7-960009	201 238	2	0.01	11	900	46	< 5	< 10	394	0.15	< 10	< 10	69	< 5	65
7-960010	201 238	< 1	0.01	12	750	60	< 5	< 10	122	0.05	10	< 10	57	< 5	82
7-960011	201 238	< 1	0.01	6	880	58	< 5	< 10	170	0.05	10	< 10	63	< 5	74
7-960012	201 238	1	0.01	14	1230	26	< 5	< 10	550	0.24	10	< 10	78	< 5	74
7-960013	201 238	32	0.05	< 1	270	412	< 5	< 10	114	< 0.01	< 10	< 10	13	< 5	22
7-960014	201 238	5	0.06	< 1	1020	30	< 5	< 10	128	0.06	10	< 10	28	< 5	84
7-960015	201 238	1	0.03	9	840	34	< 5	< 10	153	0.17	< 10	< 10	60	< 5	81
7-960016	201 238	100	< 0.01	1	630	66	< 5	< 10	129	< 0.01	10	< 10	8	< 5	60
7-960017	201 238	25	< 0.01	3	560	60	< 5	< 10	148	0.01	10	< 10	19	< 5	66
7-960018	201 238	1	0.03	6	770	18	< 5	< 10	112	0.11	10	< 10	38	< 5	58
7-960019	201 238	< 1	0.03	5	740	24	< 5	< 10	114	0.12	10	< 10	42	< 5	63
7-960020	201 238	< 1	0.03	< 1	720	36	< 5	< 10	116	0.07	< 10	< 10	19	5	71
7-960021	201 238	< 1	0.04	< 1	730	20	< 5	< 10	143	0.07	< 10	< 10	27	5	48

CERTIFICATION :

Heut Bichler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN

Comments: CC: T. GARAGAN

Page No.: 1-A
Tot. Pages: 1
Date: 9-JUL-87
Invoice #: I-8716987
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716987

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	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
7-610004	205 238	45	0.32	0.8	< 5	10	< 0.5	< 2	0.09	0.5	1	197	9	0.37	< 10	< 1	0.12	< 10	0.02	55
7-610007	205 238	5	0.22	1.4	< 5	70	< 0.5	< 2	0.03	0.5	1	155	10	0.65	< 10	< 1	0.19	10	0.01	70
7-610008	205 238	< 5	0.24	0.6	< 5	30	< 0.5	< 2	0.02	0.5	1	173	2	0.48	< 10	< 1	0.18	< 10	0.01	70
7-610009	205 238	< 5	0.27	1.2	< 5	30	< 0.5	< 2	0.02	0.5	< 1	138	2	0.30	< 10	< 1	0.22	< 10	0.01	62
7-610010	205 238	10	0.27	1.8	< 5	80	< 0.5	< 2	0.01	< 0.5	1	87	1	0.50	< 10	< 1	0.29	< 10	0.01	53
7-610011	205 238	80	0.19	1.6	< 5	10	< 0.5	< 2	0.04	< 0.5	< 1	198	7	0.30	< 10	< 1	0.10	< 10	< 0.01	185
7-610013	205 238	30	0.31	1.0	< 5	10	< 0.5	< 2	0.18	< 0.5	< 1	222	2	0.49	< 10	< 1	0.13	< 10	0.02	141
7-610014	205 238	70	0.24	2.4	< 5	10	< 0.5	< 2	0.01	< 0.5	< 1	221	15	0.44	< 10	< 1	0.15	< 10	0.01	36
7-610015	205 238	50	2.13	0.4	< 5	350	< 0.5	< 2	2.10	0.5	4	65	2	2.34	< 10	< 1	0.72	40	0.33	584
7-610016	205 238	100	1.23	0.6	40	70	< 0.5	< 2	0.39	< 0.5	4	128	1	2.34	< 10	< 1	0.38	30	0.25	412
7-610017	205 238	6590	0.30	78.0	10	20	< 0.5	< 2	0.05	< 0.5	< 1	110	3	0.32	< 10	< 1	0.19	< 10	0.01	23
7-610018	205 238	30	0.40	1.8	< 5	30	< 0.5	< 2	0.06	< 0.5	< 1	131	3	0.24	< 10	< 1	0.28	10	0.01	24
7-610019	205 238	95	0.39	2.0	< 5	10	< 0.5	< 2	0.08	< 0.5	1	164	4	0.40	< 10	< 1	0.23	< 10	0.04	70
7-610020	205 238	130	1.68	1.4	35	80	< 0.5	< 2	0.24	0.5	5	67	5	2.47	< 10	< 1	0.55	10	0.21	361
7-620007	205 238	50	1.79	1.6	10	130	< 0.5	< 2	1.06	< 0.5	1	178	9	1.01	< 10	< 1	0.76	10	0.12	79
7-620008	205 238	20	0.31	0.2	< 5	40	< 0.5	< 2	0.60	< 0.5	1	141	2	0.56	< 10	< 1	0.19	40	0.03	204
7-710001	205 238	50	0.39	1.2	50	30	< 0.5	< 2	0.02	< 0.5	< 1	112	< 1	1.03	< 10	< 1	0.23	< 10	0.02	15
7-710002	205 238	25	1.26	0.6	< 5	70	1.0	< 2	1.26	0.5	3	72	14	2.62	< 10	< 1	0.53	50	0.21	742
7-710003	205 238	45	0.74	1.6	55	40	< 0.5	< 2	0.18	< 0.5	2	107	1	1.36	< 10	< 1	0.33	10	0.07	144
7-710004	205 238	240	1.00	0.4	< 5	60	0.5	< 2	5.66	< 0.5	2	101	2	1.33	< 10	< 1	0.42	< 10	0.17	898
7-710005	205 238	45	0.92	1.8	10	40	< 0.5	< 2	0.17	0.5	3	146	5	0.89	< 10	< 1	0.38	< 10	0.30	269
7-910009	205 238	10	0.76	0.2	5	460	< 0.5	< 2	0.05	< 0.5	< 1	140	2	0.41	< 10	< 1	0.35	10	0.01	15

CERTIFICATION :

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN

Comments: CC: T. GARAGAN

Page No.: 1-B
Tot. Pages: 1
Date: 9-JUL-87
Invoice #: 1-8716987
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716987

SAMPLE DESCRIPTION	PREP CODE		Mb ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
7-610004	205	238	27	< 0.01	1	30	48	< 5	< 10	11	< 0.01	< 10	< 10	3	< 5	14
7-610007	205	238	18	< 0.01	2	110	40	< 5	< 10	31	< 0.01	< 10	< 10	1	< 5	10
7-610008	205	238	29	< 0.01	3	80	120	< 5	< 10	22	< 0.01	< 10	< 10	1	< 5	9
7-610009	205	238	20	< 0.01	< 1	20	42	< 5	< 10	12	< 0.01	< 10	< 10	1	< 5	5
7-610010	205	238	28	< 0.01	< 1	120	148	< 5	< 10	38	< 0.01	< 10	< 10	1	< 5	11
7-610011	205	238	38	< 0.01	2	20	96	< 5	< 10	12	< 0.01	< 10	< 10	1	< 5	5
7-610013	205	238	98	< 0.01	1	70	26	< 5	< 10	6	< 0.01	< 10	< 10	2	< 5	12
7-610014	205	238	88	< 0.01	2	50	130	< 5	< 10	1	< 0.01	< 10	< 10	2	< 5	6
7-610015	205	238	5	0.01	< 1	630	14	< 5	< 10	81	< 0.01	< 10	< 10	10	5	59
7-610016	205	238	3	0.02	< 1	550	10	< 5	< 10	22	< 0.01	< 10	< 10	9	5	39
7-610017	205	238	100	< 0.01	< 1	40	44	< 5	< 10	31	< 0.01	< 10	< 10	3	< 5	2
7-610018	205	238	48	< 0.01	< 1	70	26	< 5	< 10	12	< 0.01	< 10	< 10	< 1	< 5	5
7-610019	205	238	62	< 0.01	2	120	18	< 5	< 10	4	< 0.01	< 10	< 10	2	< 5	15
7-610020	205	238	28	< 0.01	< 1	620	14	< 5	< 10	38	< 0.01	< 10	< 10	9	< 5	60
7-620007	205	238	31	< 0.01	1	320	6	< 5	< 10	17	< 0.01	< 10	< 10	9	< 5	26
7-620008	205	238	< 1	0.03	< 1	20	6	< 5	< 10	20	< 0.01	< 10	< 10	1	< 5	14
7-710001	205	238	66	< 0.01	< 1	200	8	< 5	< 10	8	< 0.01	< 10	< 10	2	< 5	5
7-710002	205	238	14	< 0.01	< 1	710	10	< 5	< 10	46	< 0.01	< 10	< 10	8	< 5	55
7-710003	205	238	34	< 0.01	1	350	10	< 5	< 10	16	< 0.01	< 10	< 10	5	< 5	30
7-710004	205	238	7	< 0.01	< 1	380	12	< 5	< 10	138	< 0.01	< 10	< 10	4	< 5	34
7-710005	205	238	100	< 0.01	2	510	22	< 5	< 10	5	< 0.01	< 10	< 10	14	< 5	47
7-910009	205	238	1	0.02	1	20	2	< 5	< 10	38	< 0.01	< 10	< 10	3	< 5	3

CERTIFICATION :

Hart H. Bickler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

112 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN

Comments: CC: T. GARAGAN

Page No.: 1-A
Tot. Pages: 1
Date: 9-JUL-87
Invoice #: I-8716986
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716986

SAMPLE DESCRIPTION	PREP CODE	Au ppb FA+AA	Al %	Ag ppm	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
7660054	201 238	< 5	1.33	0.2	< 5	110	< 0.5	< 2	1.08	0.5	3	< 1	2	1.34	10	1	0.58	50	0.17	411
7750001	201 238	< 5	2.46	0.4	5	80	< 0.5	< 2	1.63	0.5	6	1	8	2.34	10	< 1	0.14	30	0.39	720
7750002	201 238	314	2.30	0.2	10	60	< 0.5	< 2	1.63	< 0.5	7	2	7	2.06	10	< 1	0.13	30	0.46	597
7750003	201 238	115	1.92	0.2	5	50	< 0.5	< 2	1.58	0.5	7	4	8	2.36	10	< 1	0.13	30	0.45	668
7750004	201 238	< 5	1.88	0.6	30	50	< 0.5	< 2	1.40	0.5	7	4	9	2.45	10	< 1	0.12	40	0.48	791
7750005	201 238	45	1.78	0.6	15	50	< 0.5	< 2	1.24	1.5	7	2	12	2.44	10	< 1	0.13	40	0.46	740
7750006	201 238	25	1.61	0.4	10	40	< 0.5	6	1.11	1.0	6	3	9	2.29	10	< 1	0.11	30	0.43	674
7750007	201 238	20	1.74	0.6	< 5	50	< 0.5	< 2	1.13	1.0	7	4	10	2.34	10	< 1	0.12	40	0.46	705
7750008	201 238	< 5	1.45	0.2	< 5	90	< 0.5	< 2	0.80	0.5	6	15	9	1.88	< 10	< 1	0.11	20	0.38	390
7750009	201 238	< 5	1.46	0.2	< 5	90	< 0.5	< 2	0.82	1.0	6	16	10	2.09	< 10	< 1	0.11	30	0.38	397
7760051	201 238	10	3.06	0.8	< 5	90	< 0.5	< 2	1.88	1.0	8	2	15	2.12	10	< 1	0.23	40	0.38	1330
7760052	201 238	60	2.24	2.0	15	100	< 0.5	< 2	1.19	3.5	7	2	35	3.01	10	< 1	0.36	60	0.35	1405
7760053	201 238	80	1.94	1.4	< 5	80	< 0.5	2	1.07	2.5	8	< 1	31	2.15	10	2	0.32	50	0.31	1765
7760054	201 238	805	2.57	2.0	20	80	< 0.5	< 2	1.44	2.0	10	1	35	3.03	10	< 1	0.28	60	0.44	1565
7760055	201 238	133	2.41	1.6	15	100	< 0.5	< 2	1.43	1.0	8	4	25	2.38	10	< 1	0.25	40	0.41	809
7760056	201 238	60	2.34	1.4	35	100	< 0.5	< 2	1.34	0.5	8	7	40	2.33	10	< 1	0.24	40	0.40	644
7760057	201 238	155	2.37	1.4	5	120	< 0.5	< 2	1.27	1.0	11	6	51	2.66	10	1	0.25	50	0.56	714
7760058	201 238	30	2.28	0.8	30	130	< 0.5	4	1.19	0.5	12	10	18	2.88	10	< 1	0.25	40	0.73	855
7760059	201 238	523	2.26	1.8	< 5	90	< 0.5	< 2	1.25	1.0	8	2	16	2.22	10	< 1	0.23	40	0.42	822
7760060	201 238	115	2.40	1.6	10	120	< 0.5	< 2	1.23	0.5	8	2	14	2.83	10	6	0.34	60	0.45	895
7760061	201 238	75	2.55	1.4	20	130	< 0.5	6	1.45	1.0	10	5	17	2.59	10	< 1	0.26	50	0.54	969
7760062	201 238	80	2.33	1.2	15	100	< 0.5	< 2	1.38	1.0	10	6	14	2.36	10	3	0.22	40	0.56	881
7760063	201 238	180	2.62	1.2	< 5	80	< 0.5	< 2	1.60	1.0	8	2	22	2.18	10	< 1	0.22	40	0.44	827
7760064	201 238	350	2.43	1.2	< 5	70	< 0.5	< 2	1.83	1.0	6	2	13	1.87	10	< 1	0.22	40	0.33	712
7760065	201 238	520	2.53	1.0	10	70	< 0.5	< 2	1.85	0.5	6	2	12	1.95	10	2	0.21	40	0.35	726
7760066	201 238	155	1.93	1.2	20	130	< 0.5	< 2	1.26	1.0	9	3	11	2.49	10	< 1	0.24	40	0.43	920
7760067	201 238	115	2.38	1.4	20	60	< 0.5	< 2	1.89	1.0	8	2	19	1.91	10	< 1	0.29	40	0.37	775
7760068	201 238	85	1.95	1.8	45	170	< 0.5	< 2	1.13	1.0	9	3	13	2.87	10	< 1	0.28	40	0.45	1130
7760069	201 238	155	1.82	2.0	35	190	< 0.5	2	1.06	1.0	9	3	13	2.88	10	< 1	0.28	50	0.43	1160
7760070	201 238	15	3.44	0.4	< 5	70	< 0.5	< 2	3.14	1.0	5	2	9	1.79	20	< 1	0.26	30	0.31	608
7760071	201 238	155	2.84	1.2	< 5	170	< 0.5	2	1.77	1.0	9	4	9	2.26	10	< 1	0.24	40	0.43	875
7760072	201 238	70	3.17	0.4	< 5	100	< 0.5	< 2	2.53	1.0	6	< 1	5	2.05	20	< 1	0.23	40	0.26	775
7760073	201 238	265	2.51	1.0	10	140	< 0.5	< 2	1.59	1.0	7	1	9	2.12	10	< 1	0.29	40	0.24	700
7960027	201 238	10	1.25	0.2	5	390	< 0.5	< 2	0.03	< 0.5	3	< 1	39	4.26	< 10	< 1	0.17	20	0.07	36
7960028	201 238	10	1.95	0.4	< 5	1250	< 0.5	< 2	1.05	0.5	20	5	90	3.15	10	< 1	0.14	50	0.57	1470
7960029	201 238	5	1.89	0.2	15	2000	< 0.5	< 2	1.63	< 0.5	16	10	68	2.47	10	3	0.17	30	0.78	884
7960030	201 238	5	2.30	0.2	25	130	< 0.5	< 2	1.11	< 0.5	19	29	17	3.29	10	< 1	0.18	40	1.57	981
7960031	201 238	45	0.59	0.4	15	650	< 0.5	< 2	0.10	0.5	5	5	24	2.21	< 10	< 1	0.30	10	0.06	97
7960032	201 238	5	0.70	0.4	< 5	400	< 0.5	< 2	1.56	1.0	5	< 1	6	0.66	10	< 1	0.38	20	0.08	499

CERTIFICATION :

Hart Buchler



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1

PHONE (604) 984-0221

To: ARCHER CATHRO & ASSOC. (1981) LTD.
BOX 4127
3125 THIRD AVE.
WHITEHORSE, YT
Y1A 3S9

Project: BEN

Comments: CC: T GARAGAN

Page No.: 1-B
Tot. Pages: 1
Date: 9-JUL-87
Invoice #: 1-8716986
P.O. #: NONE

CERTIFICATE OF ANALYSIS A8716986

SAMPLE DESCRIPTION	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Se ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
7660054	201 238	5	< 0.01	< 1	880	50	5	< 10	42	< 0.01	< 10	< 10	5	< 5	38
7750001	201 238	7	0.02	< 1	650	50	< 5	< 10	135	0.07	< 10	< 10	27	< 5	96
7750002	201 238	2	0.03	< 1	600	16	< 5	< 10	118	0.07	< 10	< 10	27	< 5	65
7750003	201 238	6	0.03	1	630	52	5	< 10	99	0.06	< 10	< 10	30	< 5	87
7750004	201 238	3	0.02	< 1	680	130	10	< 10	89	0.05	< 10	< 10	30	< 5	160
7750005	201 238	2	0.02	2	740	106	< 5	< 10	79	0.03	< 10	< 10	29	< 5	183
7750006	201 238	3	0.02	1	690	82	5	< 10	73	0.03	< 10	< 10	27	< 5	138
7750007	201 238	< 1	0.02	< 1	720	88	5	< 10	80	0.03	< 10	< 10	27	< 5	153
7750008	201 238	1	0.03	4	610	30	< 5	< 10	77	0.08	< 10	30	31	< 5	57
7750009	201 238	< 1	0.03	5	560	18	< 5	< 10	77	0.08	< 10	50	36	< 5	59
7760051	201 238	9	0.02	< 1	700	86	< 5	< 10	165	0.02	< 10	< 10	23	< 5	93
7760052	201 238	10	0.02	< 1	820	134	< 5	< 10	210	0.01	< 10	< 10	22	< 5	182
7760053	201 238	10	0.01	< 1	670	70	< 5	< 10	97	< 0.01	< 10	< 10	19	< 5	152
7760054	201 238	10	0.02	1	840	112	< 5	< 10	130	0.03	< 10	< 10	27	< 5	143
7760055	201 238	10	0.02	< 1	770	76	< 5	< 10	139	0.04	< 10	< 10	27	< 5	102
7760056	201 238	10	0.02	6	680	118	5	< 10	136	0.06	< 10	< 10	30	< 5	83
7760057	201 238	10	0.02	2	840	98	5	< 10	143	0.07	< 10	< 10	37	< 5	94
7760058	201 238	3	0.02	4	940	50	< 5	< 10	122	0.09	< 10	< 10	45	< 5	85
7760059	201 238	6	0.01	1	640	32	< 5	< 10	130	0.04	< 10	< 10	27	< 5	75
7760060	201 238	20	0.02	5	720	38	< 5	< 10	146	0.03	< 10	< 10	24	< 5	94
7760061	201 238	9	0.01	2	820	44	< 5	< 10	151	0.04	< 10	< 10	34	< 5	86
7760062	201 238	5	0.01	3	750	62	< 5	< 10	136	0.05	< 10	< 10	31	< 5	80
7760063	201 238	10	0.01	< 1	650	36	< 5	< 10	148	0.04	< 10	< 10	24	< 5	81
7760064	201 238	9	0.01	< 1	550	44	< 5	< 10	144	0.02	< 10	< 10	16	< 5	63
7760065	201 238	8	0.01	< 1	590	30	< 5	< 10	142	0.02	< 10	< 10	16	< 5	63
7760066	201 238	6	0.01	< 1	740	34	5	< 10	113	0.02	< 10	< 10	22	< 5	87
7760067	201 238	25	0.01	< 1	580	70	< 5	< 10	140	0.01	< 10	< 10	19	< 5	74
7760068	201 238	13	0.01	1	840	46	5	< 10	129	0.02	< 10	< 10	24	< 5	87
7760069	201 238	13	0.01	< 1	930	54	< 5	< 10	125	0.01	< 10	< 10	24	< 5	93
7760070	201 238	5	0.02	< 1	600	14	< 5	< 10	185	0.03	< 10	< 10	16	< 5	54
7760071	201 238	4	0.01	2	770	16	5	< 10	163	0.02	< 10	< 10	23	< 5	63
7760072	201 238	7	0.02	< 1	620	30	< 5	< 10	176	0.03	< 10	< 10	14	< 5	51
7760073	201 238	11	0.01	< 1	630	32	< 5	< 10	157	0.01	< 10	< 10	15	< 5	51
7960027	201 238	< 1	0.06	< 1	630	18	< 5	< 10	107	< 0.01	< 10	< 10	9	< 5	26
7960028	201 238	1	0.01	5	710	34	5	< 10	163	0.01	< 10	< 10	72	5	57
7960029	201 238	< 1	0.01	6	820	10	5	< 10	256	< 0.01	< 10	< 10	48	< 5	50
7960030	201 238	3	0.01	18	960	12	< 5	< 10	206	0.08	< 10	< 10	71	< 5	78
7960031	201 238	9	0.02	7	400	100	< 5	< 10	293	< 0.01	< 10	< 10	5	< 5	23
7960032	201 238	3	0.01	2	420	172	5	< 10	103	< 0.01	< 10	< 10	2	< 5	70

CERTIFICATION :

Hart Buchler

APPENDIX B
ROCK SAMPLE DESCRIPTIONS

Date: June, 1987Project: BEN claimsArea: Bennett Lake, YukonPage 1 of 2

Sample No.	Location	Description	Attitude	Width	Analytical Results		
					Au ppb	Ag ppm	Pb ppm
7-910001	at 7-610012	margin of vein w/ seams of qtz-carbonaceous material	095/060E	grab 0.5m	40	>200	>10000
7-910002	at 7-610012	qtz-chalcedony veining + breccia + silicified		1.5m chip	525	5.4	216
7-910003	at 7-610012	qtz-chalcedony veining + breccia + silicified	130/60W	2 m chip	10	2.4	138
7-910004	at 7-610012	qtz-chalcedony veining + breccia + silicified		1.5m chip	1450	12.4	30
7-910009	E end of claims	strongly silicified + qtz flooded conglomerate		grab	10	0.2	2
7-920001	1400m elevation NE side of claims	clay altered quartz eye por- phyritic rhyolite		grab	5	2.2	105
7-920002	1375m elevation NW side of claims	sheared And.dyke with qtz gn-cp seams		50 by 20 cm boulder	15	3.0	6510
7-920003	1350m gossan	grdr breccia w/ siliceous blk matrix + 10% py		grab	<5	1.0	90
7-920004	NW gulch vein zone	malachite stained silicified + brecciated rx		grab	15	2.4	52
7-920005	NW gulch vein zone	qtz-chalcedony vein breccia + silicified ? w/py +carbon		grab boulder 1.5m by .5m	565	1.6	56
7-610004	0+25E/1+15N	highly fractured qtz vein tr py		1m chip	45	0.8	48
7-610005	see map	qtz vein at contact of dacite dyke + grdr	080/75N	grab 1-5cm	<5	1.2	18
7-610006	see map	Qtz-Ca vein	065/85N	grab 0.1-10cm	<5	1.17	528
7-610007	0+25E/1+10N	intense silicified grdr		1m chip	5	1.4	40
7-610008	0+25E/1+05N	as above		1m chip	<5	0.6	120
7-610009	0+25E/1+06N	as above		1m chip	<5	1.2	42

Date: June, 1987Project: BEN claimsArea: Bennett Lake, YukonPage 2 of 2

Sample No.	Location	Description	Attitude	Width	Analytical Results		
					Au ppb	Ag ppm	Pb ppm
7-610010	0+20E/1+00N	Brecciated + silicified grdr tr py		grab	10	1.8	148
7-610011	0+19E/0+95N	Qtz vein, highly fractured		1m chip	80	1.6	96
7-610012	gossan in gully	qtz vein w/? breccia pipe	095/60N	50 cm chip	55	>200	>10000
7-610013	0+25E/0+73N	qtz veins; series of 10-30cm	130/60W	grab	30	1.0	26
7-610014	0+25E/0+60N	large 3m wide qtz vein	125/60W	grab	70	2.4	136
7-610015	1+75E/0+90S	clay gauge of shear zone, rx highly friable, yellow colour		0.5m chip	50	0.4	14
7-610016	1+65E/0+80N	shear zone, qtz stringers, clay altered	145/80W	grab 10cm	100	0.6	10
7-610017	1+15E/0+05N	qtz vein + silicified rx	050/?	1m chip	6590	78	44
7-810004	see map	sheared grdr, gossanous, tr py		<20cm wide	<5	8.8	314
7-810005	see map	sheared grdr, tr diss py	125/65N	1.3m wide	<5	3.6	138
7-810006	see map	limonite stained And, tr py		grab 1.5m	<5	2.0	44
7-810007	see map	as above		grab	<5	2.4	52
7-710001	1+05E/0+67S	clay altered, silicified grdr -		1m chip	50	1.2	8
7-710002	1+69E/0+68S	shear zone, clay gauge, tr py		1m chip	25	0.6	10
7-710003	1+05E/0+67S	as in 7-710001			45	1.6	10
7-710004	1+75E/1+10S	intense clay alteration, tr py		1m chip	240	0.4	12
7-710005	2+15E/0+57S	silicified grdr + qtz veining		grab	45	0.92	22

APPENDIX C
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, THOMAS GARAGAN, hereby certify that:

1. I am a geologist with Aurum Geological Consultants Inc. of 604 675 West Hastings Street, Vancouver, B.C. and I caused to be performed the work described in this report.
2. I obtained a Bachelor of Science degree with Honours in Geology from the University of Ottawa, Ontario, in 1980.
3. I am a fellow of the Geological Association of Canada (F3819) and a member of the Mineralogical Association of Canada and the Yukon Professional Geoscientists Society.
4. I have been engaged in mineral exploration and geological survey mapping on a full and part time basis for 9 years, of which 6 have been spent on mineral exploration programs in the Yukon Territory.
5. I have no interest in the claims or securities of All-North Resources Ltd. nor do I expect to obtain any.
6. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

DATED at Calgary, Alta., this 26th day of November 1987.


Thomas Garagan, B.Sc., FGAC