

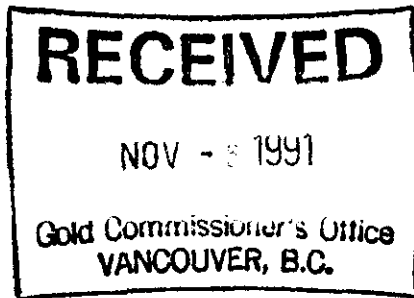
LOG NO: NOV 22 1991 RD.
ACTION:
FILE NO:

GEOCHEMICAL REPORT ON THE PYR 3 AND PYR 4 CLAIMS

Atlin Mining Division
NTS 104 J/4

Latitude: 58°10' North
Longitude: 131°48' West

A Report prepared for



Chris Graf, P. Eng.
#307 - 475 Howe Street
Vancouver, B.C.
V6C 2B3

By

David St. C. Dunn, P. Geo.
2348 Palmerston Avenue
West Vancouver, B.C.
V7V 2W1

September, 1991

GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,852

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INTRODUCTION

A two person crew carried out a geochemical sampling and prospecting program on the Pyr 3 and Pyr 4 claims on the 16th of August, 1991. The object of this program was to attempt to locate the source of two silt samples anomalous in copper, zinc and silver taken in 1990. (Waskett-Myers, 1990). Traverses were carried out down the two drainages where the anomalous silt samples were taken in 1990 with eight stream sediment samples, five rock samples and 18 soil samples being taken.

The Pyr property is located 5.0 km south of the Sheslay copper-gold porphyry deposit. This deposit is hosted in Triassic age Stuhini Formation volcanics associated with Triassic to early Jurassic biotite hornblende granodiorite. A satellite body of this intrusion outcrops on the south central Pyr 3 claim. The remainder of the Pyr 3 and Pyr 4 claims are underlain by Stuhini Formation volcanics. No record of work previous to the 1990 program has been found.

PROPERTY DEFINITION

The Pyr property consists of 22 units in two claims. Relevant claim information is listed below:

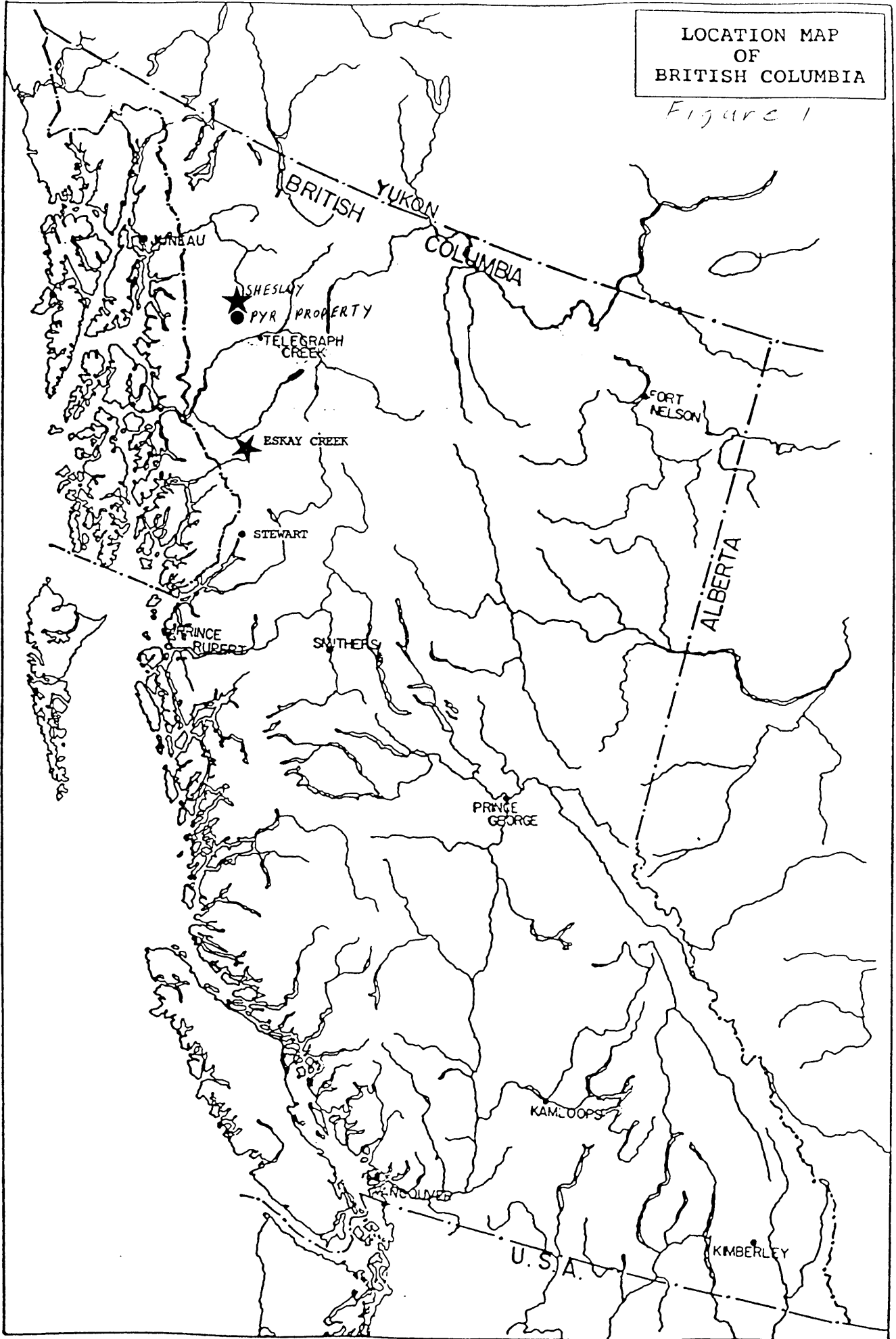
<u>Claim Name</u>	<u>Record Number</u>	<u>Number of Units</u>	<u>Expiry Date</u>
Pyr 3	4120	12 (4S, 3W)	06/03/93
Pyr 4	4121	10 (2S, 5E)	05/03/93

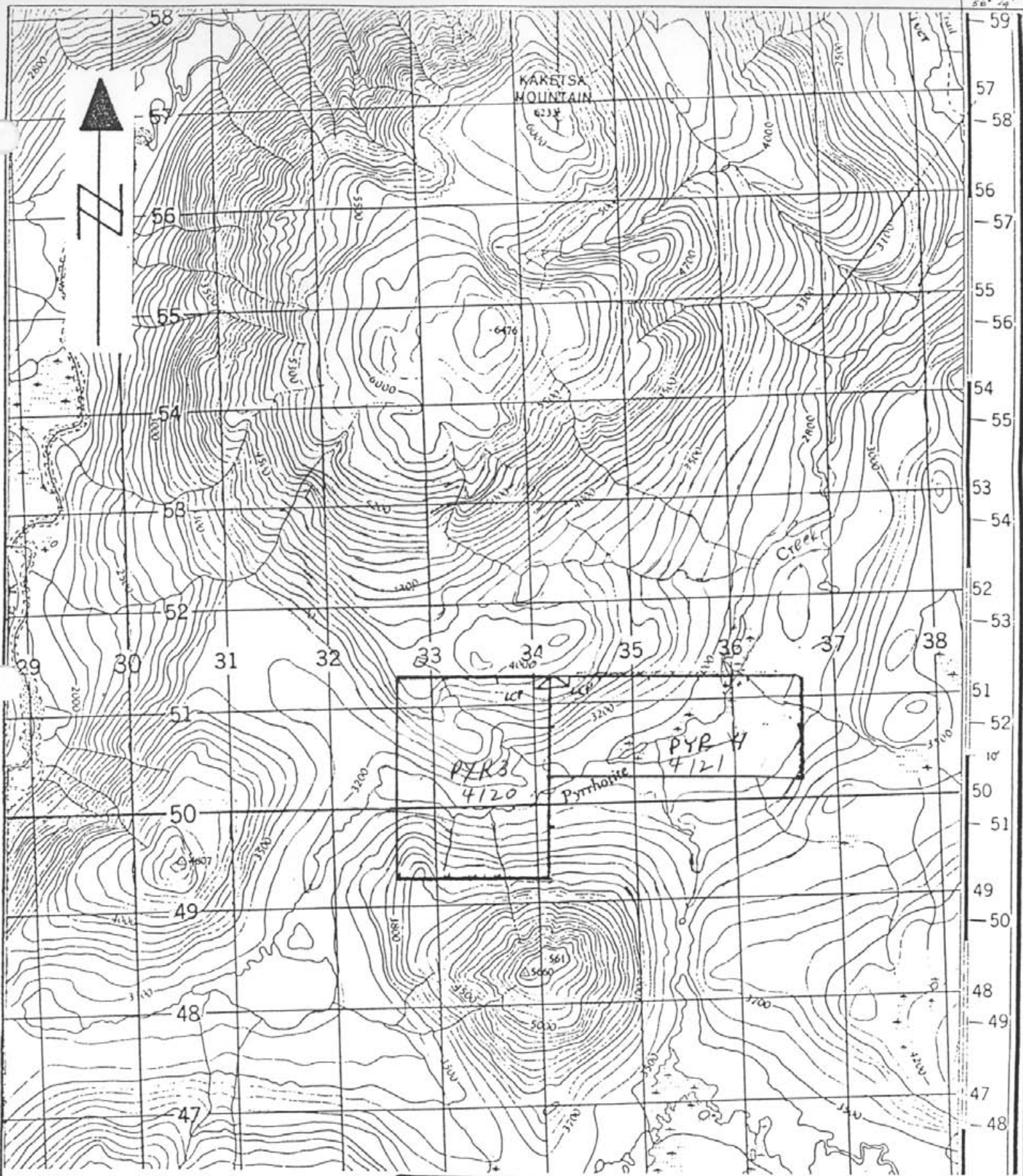
LOCATION AND ACCESS

The Pyr Claims are located 50 km northwest of the village of Telegraph Creek in north-western British Columbia (See Figures 1 and 2). They straddle Pyrrhotite Creek five to ten kilometres from its confluence with the Hackett River.

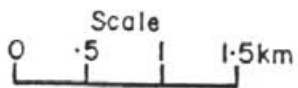
LOCATION MAP
OF
BRITISH COLUMBIA

Figure 1





Part of 104 J/4



ACTIVE MINERALS LTD

**STIKINE GOLD PROJECT
PYR CLAIMS**

Scale: 1:50,000

Date: September, 1991

Plate: 2

Access for this program was achieved by helicopter set out from Telegraph Creek. Alternatively, access to the claims can be gained from the Golden Bear Mine access road, which passes approximately one kilometre south of the Pyr 3 claim boundary at kilometre 110 on the road.

TOPOGRAPHY AND VEGETATION

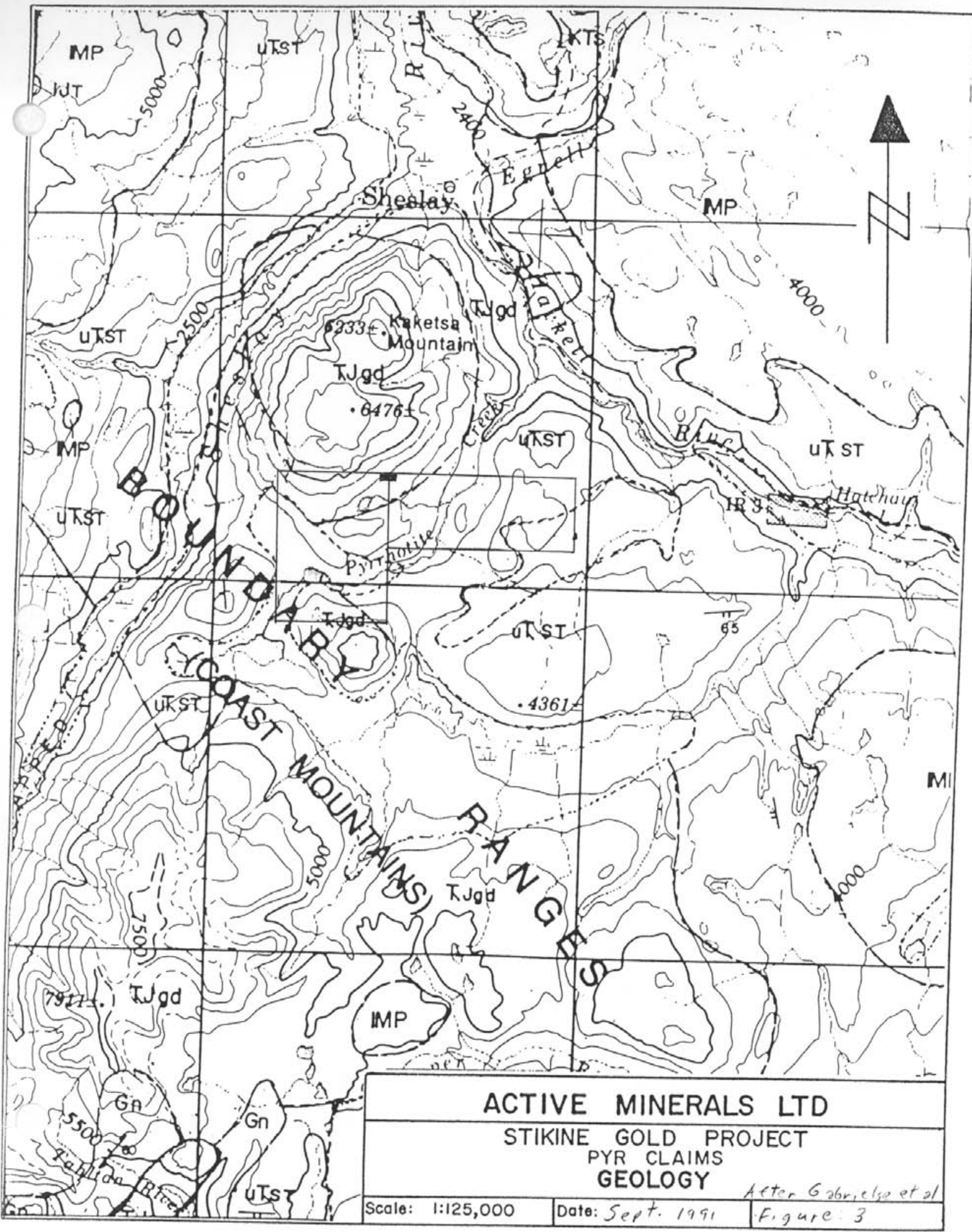
Topography is moderate with approximately 50% of the claims covering Pyrrhotite Creek and the swamps surrounding it. Elevations range from 880 m on Pyrrhotite Creek to 1220 m on the southern Pyr 3 claim. Water is readily available from Pyrrhotite Creek, its tributaries and four lakes on the claims. Vegetation is largely mature sub alpine spruce with considerable buck brush near Pyrrhotite Creek.

REGIONAL GEOLOGY

The Pyr claims lie in the Intermontane Tectonic Belt near its western margin (See Figure 3). The Triassic to early Jurassic biotite hornblende granodiorite out cropping on the property is an outlier of the Coast Plutonic Complex. The Sheslay porphyry deposit, located 5 km to the north is associated with a similar intrusion.

PROPERTY GEOLOGY

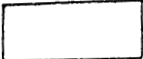
The intrusion mentioned in "Regional Geology" was not observed in outcrop in this project. Strongly magnetic granodiorite was observed in float. Outcrop consisted of Andesite Tuff and Flows exhibiting weak to moderate propylitic alteration with local areas of silicification and quartz stringer zones. A 10 cm vuggy quartz-amethyst stringer was observed and sampled on the creek which cuts the northeast corner of the Pyr 4 claims.




ACTIVE MINERALS LTD		
STIKINE GOLD PROJECT PYR CLAIMS GEOLOGY		
<i>After Gabrielse et al</i>		
Scale: 1:125,000	Date: Sept. 1991	Figure: 3

LEGEND: DEASE LAKE (104J) MAP-AREA (1:125,000)

PLEISTOCENE AND RECENT

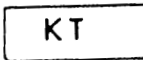
 Glacial and glacio-fluvial deposits, stream deposits, felsenmeer, talus, soil


MIOCENE TO PLEISTOCENE AND(?) RECENT

 Alkali olivine basalt; minor trachyte and rhyolite; **MP**, may include considerable areas of underlying Mesozoic and minor Paleozoic rocks

CRETACEOUS TO PALEOCENE AND(?) LATER

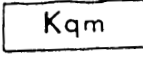
UPPER CRETACEOUS TO PALEOCENE AND(?) LATER

 Nonmarine sandstone, siltstone, conglomerate, and tuff; contains coalified wood and local coal seams; **KT_{5U}**, SUSTUT GROUP

 **KT₅** SLOKO GROUP: rhyolite, dacite and trachyte flows, dykes, breccia

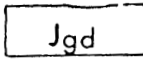
CRETACEOUS

MID TO LATE CRETACEOUS.

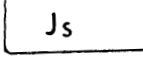
 **Kqm** Biotite quartz monzonite, medium to coarse grained

JURASSIC


MID TO LATE JURASSIC (?)


 **Jgd** Biotite and biotite hornblende granodiorite, monzodiorite, diorite; **Jqm**, megacrystic hornblende-biotite quartz monzonite; **Jsy**, syenite, syenite porphyry

JURASSIC, UNDIVIDED

 **Js** Greywacke, shale; pebble conglomerate with granitic clasts

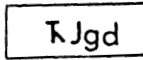
LOWER JURASSIC

 **IJT** TAKWAHONI FORMATION: greywacke, shale, minor pebble conglomerate; **IJTm**, hornfelsed equivalents of **IJT** and including abundant sills and dykes of quartz-feldspar porphyry

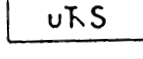
 **IJI** INKLIN FORMATION: penetratively foliated phyllitic slate, greywacke, pebble and cobble conglomerate **IJICg**, diamictite

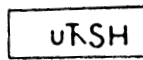
TRIASSIC AND JURASSIC

LATE TRIASSIC AND EARLY JURASSIC

 **Tjgd** Biotite-hornblende quartz diorite, granodiorite, quartz monzonite, diorite **Tjd**, hornblende diorite, **Tjdg**, diorite and gabbro; **Tjpy**, zoned ultrabasic with margin of pyroxenite containing abundant magnetite and apatite grading through pyroxenite-syenite agmatite and pyroxene syenite to a core of altered leucocratic syenite; **Tjqm**, quartz monzonite

UPPER TRIASSIC

 **UTS** SINWA FORMATION: limestone, commonly argillaceous and fetid

 **UTSH** SHONEKTAW FORMATION: augite andesite

uKN NAZCHA FORMATION: volcanic sandstone, argillite tuff, conglomerate; uKNc, limestone

uKST STUHINI FORMATION: augite and coarse bladed plagioclase porphyry, breccia and flows; tuff, volcanic sandstone and conglomerate; minor siltstone, greywacke, shale; uKSTd diabase

uKK 'KUTCHO FORMATION': dacitic breccia, tuff; foliated quartz porphyry, conglomerate, may include Cache Creek Group

PERMIAN (South of Atlin Terrane)

P Pc, pale grey and orange cherty limestone; argillaceous limestone
Ps, grey and green phyllite, grey ribbon chert
Ps, biotite-chlorite schist, age uncertain

PERMIAN

CACHE CREEK GROUP (includes PT, PH, PFR, MPK, MPu)

PT|PH PT, TESLIN FORMATION; PH, HORSEFEED FORMATION: limestone, dolomitic limestone

PFR PFR, FRENCH RANGE FORMATION: altered basic volcanic flow rocks; PFR, lithic tuff, agglomerate cherty tuff and metamorphosed equivalents

MISSISSIPPIAN TO PERMIAN

MPK KEDAHDA FORMATION: cherty argillite, argillaceous chert, locally graphitic, metamorphosed equivalents; chert and argillite; very minor volcanic rocks and metamorphosed equivalents; MPKc, limestone; MPKs, same as MPK but includes greywacke and local conglomerate similar to that in the Inklin Formation

MPu Serpentinite, peridotite, pyroxenite; MRg, gabbro, MPug, undivided

METAMORPHIC ROCKS

Gn Diorite gneiss, amphibolite, migmatite; age uncertain

IIPn Biotite-muscovite quartz gneiss and schist; minor crystalline limestone, quartzite; probably metamorphosed lower Paleozoic strata

DISCUSSION OF 1991 FIELDWORK

Not enough samples were taken in this program to determine anomalous levels by statistical methods. Anomalous levels were determined by past work in the area and discussion with other geo-scientists familiar with the region. Sampling methodology and analytical procedures are described in Appendices B and E, respectively.

Three rock samples (14951, 14952, 14955) returned geochemically anomalous values in copper (165 ppm, 162 ppm, 249 ppm) near the southern boundary of the Pyr 3 claim. These samples were taken in silicified zones of weakly to moderately propylitically altered Andesite tuff and flows. The samples were taken within a few hundred metres of the Andesite - Granodiorite contact according to G.S.C. O.F. 707.

One silt sample (14954) taken in the same area as the anomalous rock samples was also anomalous in copper (901 ppm).

Two pan concentrate samples (003, 024) were highly anomalous in gold (1350 ppb, 6560 ppb). Sample 003 was taken downstream from the vuggy quartz amethyst stringer described in "Property Geology". Sample 024 was taken at elevation 930 metres in a small creek which drains north into Pyrrhotite Creek in the south central Pyr 4 claim.

One soil sample (022) was anomalous in gold (62 ppb). This sample was taken immediately north and downstream from pan concentrate sample 024.

CONCLUSION

The source of one of the anomalous silt samples taken in the 1990 program was localized near the southern boundary of the Pyr 3 claim. Rock samples taken in this area give an anomalous background in copper, probably associated with the contact of the granodiorite intrusion and the andesites immediately south of the area. Alteration is not strong enough to indicate an outcropping copper porphyry ore body is present. The lack of copper sulphide mineralization severely limits the possibility of economically viable copper porphyry mineralization.

The source of the other anomalous silt sample remains enigmatic. It is possible that the vuggy quartz amethyst stringer mentioned in "Property Geology" contains some copper mineralization and is the source of the 1990 anomaly.

One of the anomalous pan concentrate samples taken in the 1991 program (003 - 1350 ppb Au) was taken below the vuggy quartz amethyst stringer and probably reflects gold mineralization in the stringer. This stringer is not large enough nor does it carry high enough values in the area it was sampled to warrant follow-up work.

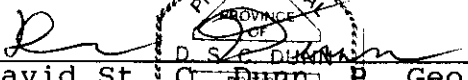
The remaining two anomalies: pan concentrate 024 - 6560 ppb Au and soil 022 - 62 ppb Au are of interest. These samples were taken within 100 metres of each other on the north flowing tributary of Pyrrhotite Creek on the south central Pyr 4 claim. Topography indicates that this creek might be following a north-south structure marking the eastern boundary of the granodiorite intrusion south of the Pyr 3 claim.


RECOMMENDATIONS

Two man days of prospecting are recommended to attempt to locate the source of pan concentrate sample 024 and to confirm the presence of the soil anomaly in sample 022. This work should consist of detailed silt and pan concentrate sampling up the creek from sample 024 at 100 metre intervals combined with prospecting. Two soil lines should also be run north-south parallel and within 50 metres of the creek on its east and west bank. This work should take one day and cost approximately \$2,500, if carried out in conjunction with other work in the area.

Further work, beyond the recommended program, should be based on positive results.

Respectfully submitted by:


David St. C. Dunn, P. Geo.



The seal is a circular emblem with a dashed border. The outer ring contains the text 'PROFESSIONAL' at the top and 'GEOSCIENTIST' at the bottom. The inner circle contains the text 'PROVINCE OF COLUMBIA' around the perimeter. In the center of the seal, the name 'D. St. C. DUNN' is written in a stylized font.

BIBLIOGRAPHY

- Gabrielse, H. et al., 1971, Department of Energy, Mines and Resources, O.F. 707
- Gabrielse, H., Souther, J.G., 1962, Geological Survey of Canada, Map 29-1962 and Descriptive Notes
- Waskett-Myers, M., Graf, C., 1990, Geological Report on Stikine Gold Project

APPENDIX A
ASSAY CERTIFICATES

Geochemical Analysis Certificate

1V-0956-RG1

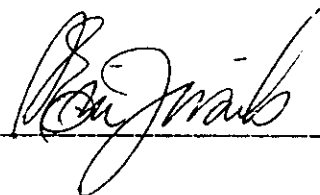
Company: **ACTIVE MINERALS LTD.**
Project: **STIKINE GOLD SYNDICATE - PYR**
Attn: **C.GRAF/D.DUNN**

Date: **SEP-07-91**
Copy 1. **ACTIVE MINERALS, VANCOUVER, B.C.**
2. **DAVID DUNN, WEST VANCOUVER, B.C.**

We hereby certify the following Geochemical Analysis of 5 ROCK samples submitted AUG-30-91 by DAVID DUNN.

Sample Number	AU-FIRE PPB	AG PPM	CU PPM	MO PPM	FB PPM	ZN PPM
14951	10	1.8	165	9	16	57
14952	8	1.3	162	9	12	32
14955	4	4.0	249	8	41	304
1-00001	7	2.0	42	12	29	223
1-00002	3	1.4	11	8	19	23

Certified by _____



COMP: ACTIVE MINERALS LTD.
 PROJ: STIKINE GOLD SYNDICATE - PYR
 ATTN: C.GRAF/D.DUNN

MIN-EN LABS — ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

FILE NO: 1V-0956-SJ1
 DATE: 91/09/07
 * SOIL * (ACT:F31)

SAMPLE NUMBER	AG PPM	AL PPM	AS PPM	B PPM	BA PPM	BE PPM	BI PPM	CA PPM	CD PPM	CO PPM	CU PPM	FE PPM	K PPM	LI PPM	MG PPM	MN PPM	MO PPM	NA PPM	NI PPM	P PPM	PB PPM	SB PPM	SR PPM	TH PPM	TI PPM	V PPM	ZN PPM	GA PPM	SN PPM	W PPM	CR PPM	AU-FIRE PPB
1-00005	.2	26930	1	3	66	.4	14	7640	.1	20	50	45940	540	8	10120	505	1	680	30	1700	10	1	22	1	2574	127.6	78	1	2	4	58	4
1-00006	.5	20620	1	3	31	.1	17	9420	.1	19	31	50030	820	10	9520	301	1	1090	23	230	8	1	24	1	3033	162.2	55	1	2	5	58	2
1-00007	1.0	27570	1	1	81	.1	19	11140	.1	29	38	55070	820	12	21440	1051	1	1400	72	1700	10	1	28	1	3576	132.2	110	1	3	6	93	1
1-00008	1.1	17020	1	1	37	.1	17	11440	.1	19	25	37020	870	12	10820	661	1	1040	23	270	12	1	33	2	3219	108.4	62	1	2	4	51	1
1-00009	.6	22550	1	1	53	.2	12	12650	.1	16	34	40430	540	8	10720	446	1	530	23	420	5	1	39	1	2270	147.4	39	1	2	4	45	2
1-00010	.4	29270	1	1	43	.3	16	11120	.1	26	61	57330	930	9	18820	510	1	600	54	1490	4	1	27	1	3036	170.7	69	1	2	6	90	1
1-00011	.7	26680	1	1	32	.4	15	10190	.1	24	60	50440	800	8	16140	436	1	1070	48	1870	8	1	25	1	2761	136.9	59	1	2	5	69	1
1-00012	.1	19460	1	1	51	.2	11	9390	.1	19	46	50250	650	8	9700	646	1	380	23	1640	10	1	27	1	2028	169.6	83	1	1	5	56	2
1-00013	.1	22480	1	1	69	.3	10	17520	.1	22	78	43640	1050	10	16180	2016	1	1240	41	1500	14	1	46	1	1706	127.8	77	1	1	5	68	3
1-00014	.8	34500	1	1	69	.4	24	6350	.1	28	36	67270	600	10	6480	552	1	420	20	2310	1	1	19	1	4791	131.5	126	1	3	4	47	1
1-00015	1.5	28240	1	1	77	.3	21	8150	.1	27	75	63210	810	10	10370	520	1	1300	44	1050	11	1	23	1	4018	163.9	130	1	3	5	69	12
1-00016	1.2	22060	1	1	35	.2	14	7880	.1	20	65	52420	540	8	7610	373	1	750	18	640	17	1	24	1	2522	168.1	102	1	2	5	55	4
1-00017	.6	26960	1	1	92	.1	19	8130	.1	26	80	65160	800	10	8320	951	1	1230	17	1680	23	1	25	1	3742	184.7	169	1	3	5	48	5
1-00018	.2	16130	1	1	19	.3	11	8770	.1	15	46	45060	540	6	6950	452	1	1740	10	820	16	1	25	1	1980	178.7	53	1	1	4	35	1
1-00019	.8	29780	1	1	99	.1	23	6120	.1	26	48	62720	660	9	7410	1279	1	2630	23	1640	22	1	18	1	4486	134.3	167	1	3	4	52	14
1-00020	1.2	39870	1	1	74	.5	29	5500	.1	31	70	76580	750	9	9430	707	1	2500	29	2510	13	1	17	1	6011	146.0	134	1	4	5	59	2
1-00021	.1	30010	1	1	74	.5	14	9480	.1	24	95	60450	770	10	14560	631	1	1530	42	2070	18	1	22	1	2431	203.3	125	1	2	6	94	4
1-00022	.2	23010	1	1	42	.4	13	9940	.1	21	76	52070	890	8	12840	564	1	2060	36	2910	18	1	27	1	2267	175.8	76	1	2	6	75	62

APPENDIX B
SAMPLING METHODOLOGY

SAMPLING METHODOLOGY

ROCK SAMPLES

Approximately 5 kg of rock chips were placed in a 6 mil plastic bag with a sample tag; the bag was marked with the tag number and the samples shipped to Min-En Laboratories in North Vancouver.

SILT SAMPLES

Approximately 0.5 kg of fine sediment was collected from the active stream channel, placed in a standard kraft bag with a sample tag and the tag number written on the bag. The sample was then dried and shipped to Min-En Laboratories in North Vancouver.

SOIL SAMPLES

Approximately 0.5 kg of B horizon soil was collected from 10 cm to 25 cm depth, put in a standard kraft bag with a sample tag and the tag number written on the bag. The sample was then dried and shipped to Min-En Laboratories in North Vancouver.

PAN CONCENTRATE SAMPLES

Two pans of material were collected from the active stream channel, sieved to -1.25 cm and panned to a black sand concentrate. One pan of moss was washed with the resulting residue panned to a black sand concentrate. These concentrates were combined and placed in a 6 mil plastic bag with a sample tag. The bag was labelled with the tag number and shipped to Min-En Laboratories in North Vancouver.

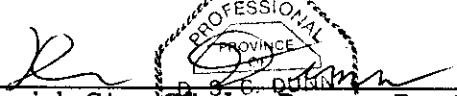
APPENDIX C


STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, David St. Clair Dunn, with a business address of 2348 Palmerston Avenue, West Vancouver, B.C. declare that:

1. I am a Professional Geoscientist registered under the Professional Engineers and Geoscientists Act of the Province of British Columbia.
2. I am a Fellow of the Geological Association of Canada.
3. I am an affiliate member of the Association of Exploration Geochemists.
4. I have practised my profession as a prospector and geologist in Canada, U.S.A. and Australia for over 20 years.
5. I personally supervised the work on the Pyr claims.
6. I do not hold any interest in the Pyr claims nor do I expect to receive any.


David St. Clair Dunn, P. Geo.



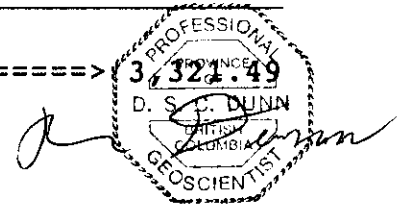
The seal is a circular emblem with a scalloped border. The text around the border reads 'PROFESSIONAL' at the top, 'PROVINCE OF' at the top-left, 'BRITISH COLUMBIA' at the bottom-left, and 'GEOSCIENTIST' at the bottom. In the center of the seal, the name 'D. S. C. DUNN' is written in a stylized font.

APPENDIX D
STATEMENT OF COSTS

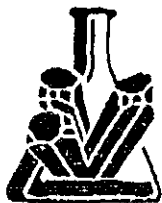
STATEMENT OF COSTS

Project Preparation		87.23
Mob-Demob		463.21
Project Expenses:		
Wages: D. Dunn 1 day @ \$250/day + GST (16/8/91)		267.50
B. Goad 1 day @ \$150/day + GST (16/8/91)		160.50
Helicopter		967.64
Room and Board		105.80
Truck Rental		189.11
Analytical Costs:		
5 rocks	-	92.50
18 soils	-	261.00
4 silts	-	53.00
4 pans conc	-	74.00
		<hr/>
		480.50
480.50		480.50
Report Preparation		600.00

TOTAL =====>



APPENDIX E
ANALYTICAL METHODS



**MINERAL
• ENVIRONMENTS
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK

PROCEDURE FOR AU, PT OR PD FIRE GEOCHEM

Geochemical samples for Au Pt Pd are processed by Min-En Laboratories, at 705 West 15th St., North Vancouver, B.C., laboratory employing the following procedures:

After drying the samples at 95 C, soil and stream sediment Samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer or ring mill pulverizer.

A suitable sample weight; 15.00 or 30.00 grams is fire assay preconcentrated. The precious metal beads are taken into solution with aqua regia and made to volume.

For Au only, samples are aspirated on an atomic absorption spectrometer with a suitable set of standard solutions. If samples are for Au plus Pt or Pd, the sample solution is analyzed in an inductively coupled plasma spectrometer with reference to a suitable standard set.

OFFICE AND LABORATORIES:
705 WEST FIFTEENTH STREET, NORTH VANCOUVER, B.C.
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**MINERAL
• ENVIRONMENTS
LABORATORIES**

Division of Assayers Corp. Ltd.

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR AG, CU, PB, ZN, NI, CO OR CD GEOCHEM

Samples are processed by Min-En Laboratories at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized on a ring mill pulverizer.

0.50 gram of the sample is digested for 2 hours with an aqua regia mixture. After cooling samples are diluted to standard volume.

The solutions are analysed on atomic absorption spectrometers using the appropriate standard sets. A background correction can be applied to Ag, Pb, and Cd if requested.

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ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR 31 ELEMENT TRACE ICP

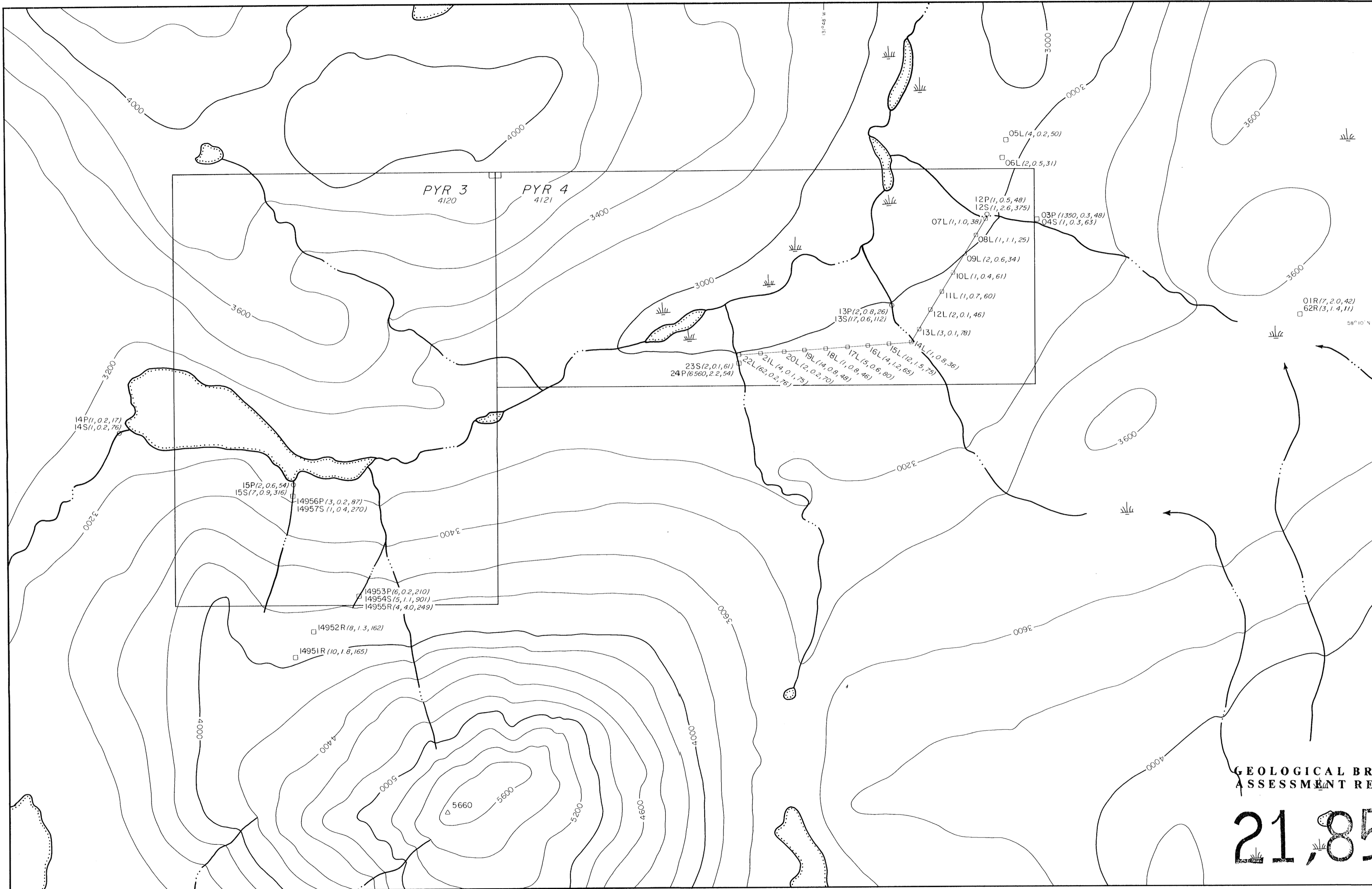
Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu,
Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb,
Sr, Th, Ti, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95 C, soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer or ring mill pulverizer.

0.5 gram of the sample is digested for 2 hours with an aqua regia mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers. Reports are formatted and printed using a dot-matrix printer.



LEGEND

- creek
- lake
- swamp
- contours(200 ft intervals)
- 1990 sample
- 1991 sample
- 22L soil sample
- 22R rock sample
- 22P pan concentrate sample
- 22S silt sample
- (2, 0.2, 222) geochemistry values
(Au ppb, Ag ppm, Cu ppm)
- claim boundary with L.C.P.



ACTIVE MINERALS LTD.
 GEOLOGICAL BRANCH ASSESSMENT REPORT
 PYR PROPERTY

21,852 Sample Locations

SCALE 1 : 10 000	DATE Sept. 1991	FIGURE 4
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