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REPORT
ON THE
GEOCHEMICAL AND PROSPECTING PROGRAM

CONDUCTED ON THE
KP 1 to 4 MINERAL CLAIMS
FOR
GREGORY G. CROWE
OF
AZIMUTH GEOLOGICAL INCORPORATED
BRITISH COLUMBIA

NTS 82 L/1W
LONGITUDE 118°27'W, LATITUDE 50°12'N

GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,935

FILMED

Author: T.H. Carpenter, B.Sc. FGAC
Date: January 11, 1988

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SUMMARY

During October 1987 a geochemical and prospecting program was completed on a portion of the KP claims. The KP claims are located on Monashee Creek approximately 17 kilometers ESE of Cherryville, British Columbia. The claims overlie sedimentary and volcanic rocks of the Cache Creek Group.

The program was designed to test for the lode source of placer gold found in Monashee Creek and within creeks draining the claim area. Results are encouraging and include anomalous Au values in soils, values up to 7050 ppb Au in heavy mineral samples and 2580 ppb Au in mineralized float.

INTRODUCTION

A program of soil sampling and prospecting was completed on the KP claims in October of 1987. This program was designed to determine possible bedrock sources for anomalous Au values detected in silt and heavy mineral samples.

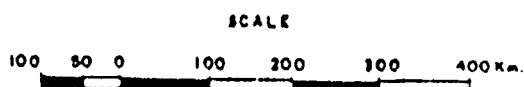
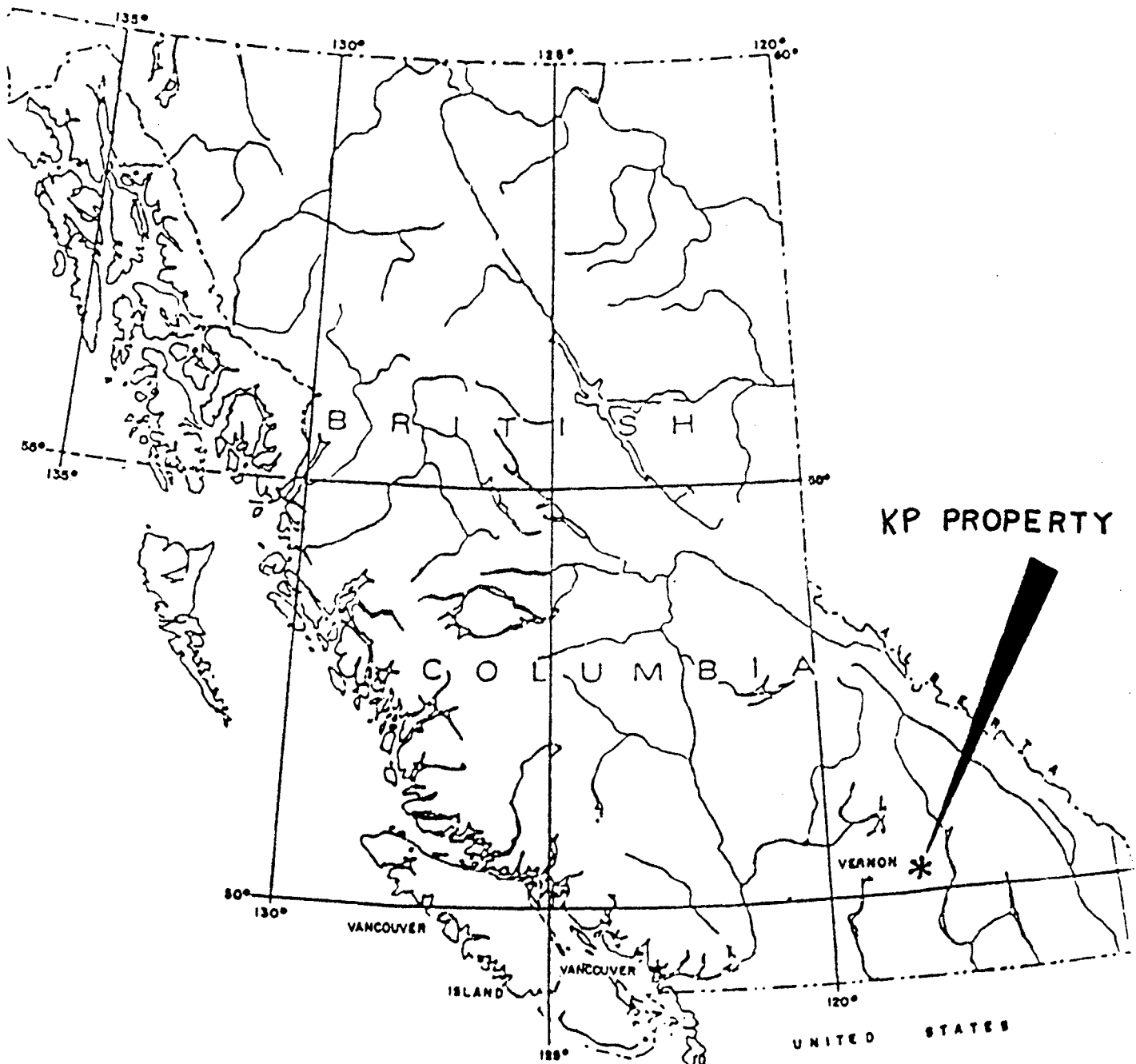
Follow-up work was largely centred on the KP-4 mineral claim. A heavy mineral concentrate from Silver Bell Creek, which drains this claim, showed visible gold and assayed 7050 ppb Au.

The claim group is thought to contain mineralized quartz veins and/or a quartz stockwork system, which is providing free gold to creeks draining the area and contributing to placer deposits on Monashee Creek.

LOCATION AND ACCESS

The KP 1-4 claims are located in the Vernon Mining Division of British Columbia, NTS 82L/1W. The claims are centred at approximately 118°27'W longitude and 50°12' N latitude (Fig. 1).

The property is situated on Monashee Creek 17 kilometers ESE of Cherryville. Access is via a logging road which leaves Highway 6 approximately 9.5



AZIMUTH GEOLOGICAL INC.	
KP PROPERTY MONASHEE CREEK AREA, B.C.	
LOCATION MAP	
SCALE: 1:253,440	DRAWN BY: T.H.C.
DATE: January, 1988	FIGURE: 1

kilometers SE of Cherryville and runs parallel to Monashee Creek.

From a point of 1 km west of Silver Bell Creek a four wheel drive road allows access to the NE corner of KP-4 claim and the headwaters of Silver Bell Creek.

PHYSIOGRAPHY AND VEGETATION

The claims lie along and on the south side of an east-west trending ridge bounded to the south by Monashee Creek and to the north by Currie Creek. Elevations range from 3400 ft (1036 m) to in excess of 5300 ft (1615 m).

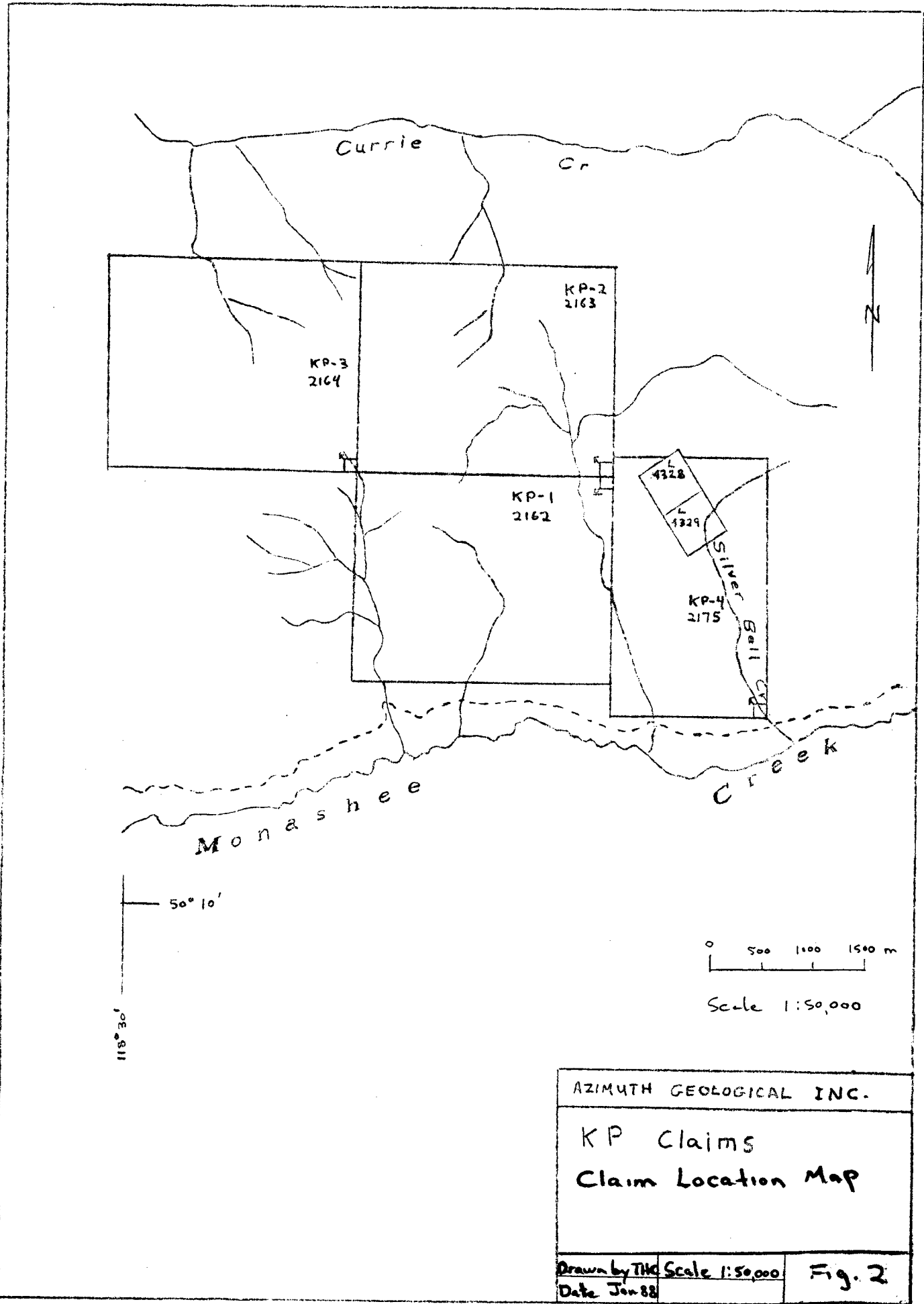
Slopes are generally moderate and are predominantly covered with stands of fir, pine and spruce. Extensive growths of tag alder are found on southeast facing slopes within the creek valleys.

More than 90% of the property is overlain by varying thicknesses of overburden.

CLAIM STATUS

The property consists of four mineral claims comprising 72 units staked by agents for Azimuth Geological Incorporated, 205 - 470 Granville St., Vancouver (Fig. 2). Claim status is as follows:

<u>Claim Name</u>	<u>Record #</u>	<u>Units</u>	<u>Date Staked</u>	<u>Expiry Date</u>
KP-1	2162	20	Oct.4/86	Oct.4/88
KP-2	2163	20	Oct.4/86	Oct.4/88
KP-3	2164	20	Oct.8/86	Oct.8/88
KP-4	2175	<u>15</u>	Oct.28/86	Oct.28/88
		75		



HISTORY

The earliest activity in the vicinity of the KP claims consisted of significant placer gold mining conducted on Cherry and Monashee Creeks during the 19th century.

Crown grants to the southwest of the claims cover the Monashee Mine, where gold and silver were produced intermittently from the 1890's until about 1935. Ore shipments in 1927 from the St. Paul Mine, due south of the claim block on Monashee Mountain reportedly graded 0.50 oz/ton Au and 147.9 oz/ton Ag (B.C. Minister of Mines Report, 1927).

Within the boundaries of the KP-4 claim are located the Silver Horde (L 4328) and Silver Bell (L 4329) crown grants. The main and upper Horde showings, comprising surface cuts and some underground work, are located within these grants.

The workings trace mineralized quartz veins up to 15 feet in width and up to several hundred feet in length. These veins appear to conform to the strike and dip of surrounding rocks and trend to the NW with an approximate 45° NE dip.

Within recent years several shipments of ore grade material were taken from the Silver Horde workings. A 15.4 ton (14 tonne) shipment in 1978 yielded 311 g Au, 43,171 gm Ag, 700 kg Pb and 252 kg Zn (BCDM Assessment Report #13876).

Just outside the NE corner of KP-4 claim are found the upper and lower McQueen workings. As with the Silver Horde these workings appear to follow well developed quartz veins.

No records are available of any ore shipments from the McQueen workings.

Three kilometers east of the property, in streams draining Cache Creek rocks similar to those on the property, values to 80,000 ppb Au have been reported in heavy mineral samples (BCDM Assessment Report #14391).

REGIONAL GEOLOGY

Regionally the KP claims are contained within the Vernon Map Area (GSC Memoir 296). Basement rocks in the area comprise the Monashee Group of the Shuswap Metamorphic Terrane of presumed Archean Age. Monashee Group rocks are unconformably overlain and in fault contact with Cache Creek Group rocks of Carboniferous (?) and Permian age (Fig. 3).

The Cache Creek Group is a thick sequence of highly faulted relatively unmetamorphosed sedimentary and volcanic rocks, which have been divided into three divisions as follows:

Division A - lowermost, primarily argillite

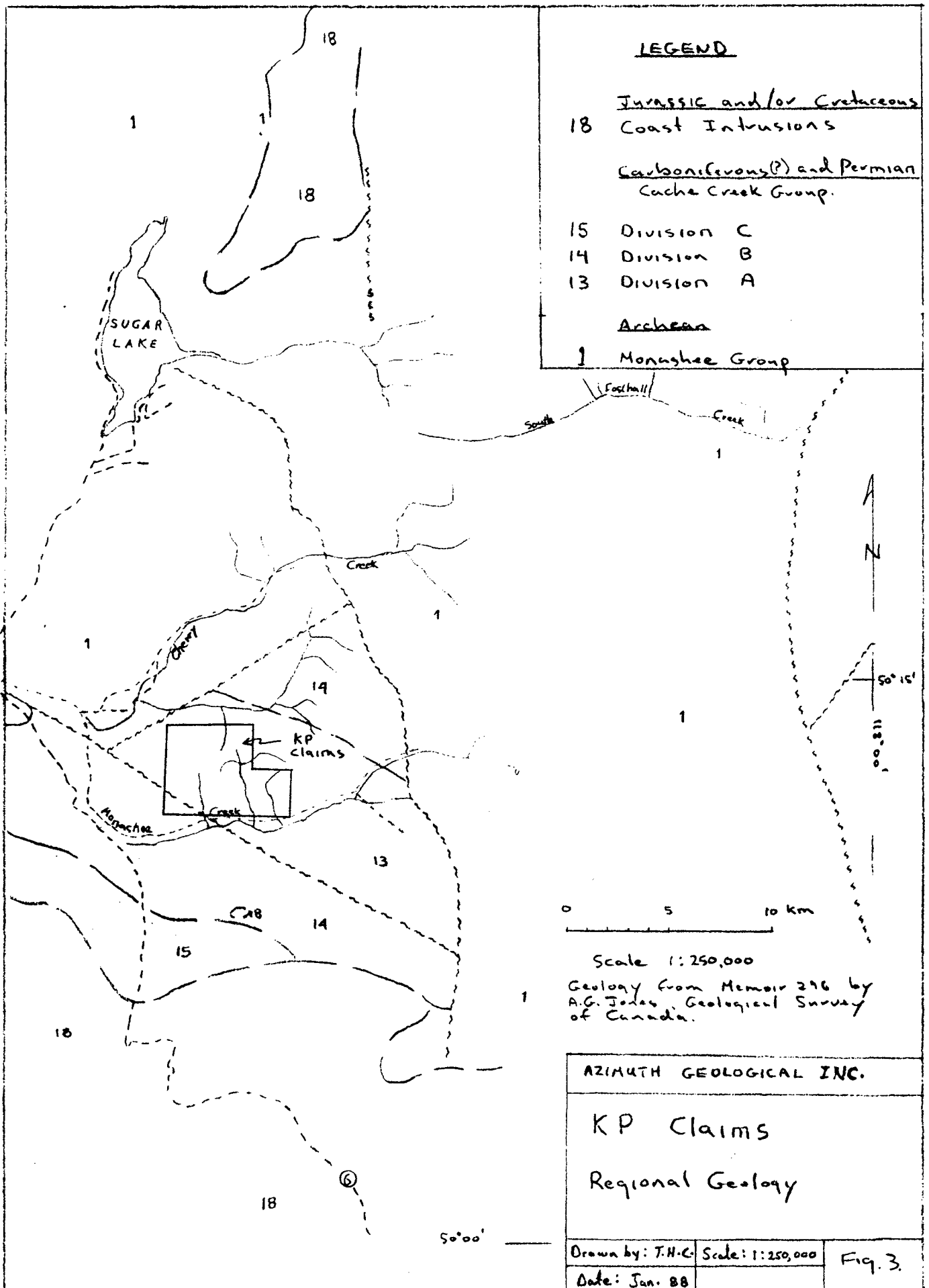
Division B - mainly andesite lava and tuff; minor argillite, quartzite and limestone.

Division C - mainly limestone; minor argillite, quartzite and andesite lava, breccia and tuff.

Batholiths and stocks of Jurassic and/or Cretaceous age intrude both the Cache Creek and Monashee Groups.

The presence of a large intrusive batholith to the south of the claims, combined with the existence of an outlier of intrusive material to the north (on the east side of Sugar Lake) suggests that intrusive material may occur locally at a shallow depth below the claim group. This impression is supported by the presence of a north south trending magnetic high cutting through the claims. This high corresponds with similar magnetic values over the intrusives to the south. Pleistocene gravels, silts and sands blanket most of the area.

Northwest and northeast trending faults are common throughout the area. In the vicinity of the claim group the trend of creeks suggests a NNW series of faults may be present.



PROPERTY GEOLOGY

Rocks exposed on the KP claims comprise argillites of Division A of the Cache Creek group. These rocks occasionally outcrop on the four wheel drive road running north from the Monashee Creek road to the headwaters of Silver Bell Creek. At one point along this road quartz veins form a distinct stockwork within silicified argillites.

The argillites trend northwesterly with an approximate 45° NE dip. Quartz veins exposed on the Silver Horde and Silver Bell crown quarts have a similar trend. Where these veins have been exposed by earlier exploration efforts, the veins appear to be intimately associated with quartz "eye" porphyries of possible dacitic composition, suggesting contemporaneous emplacement of both veins and porphyries.

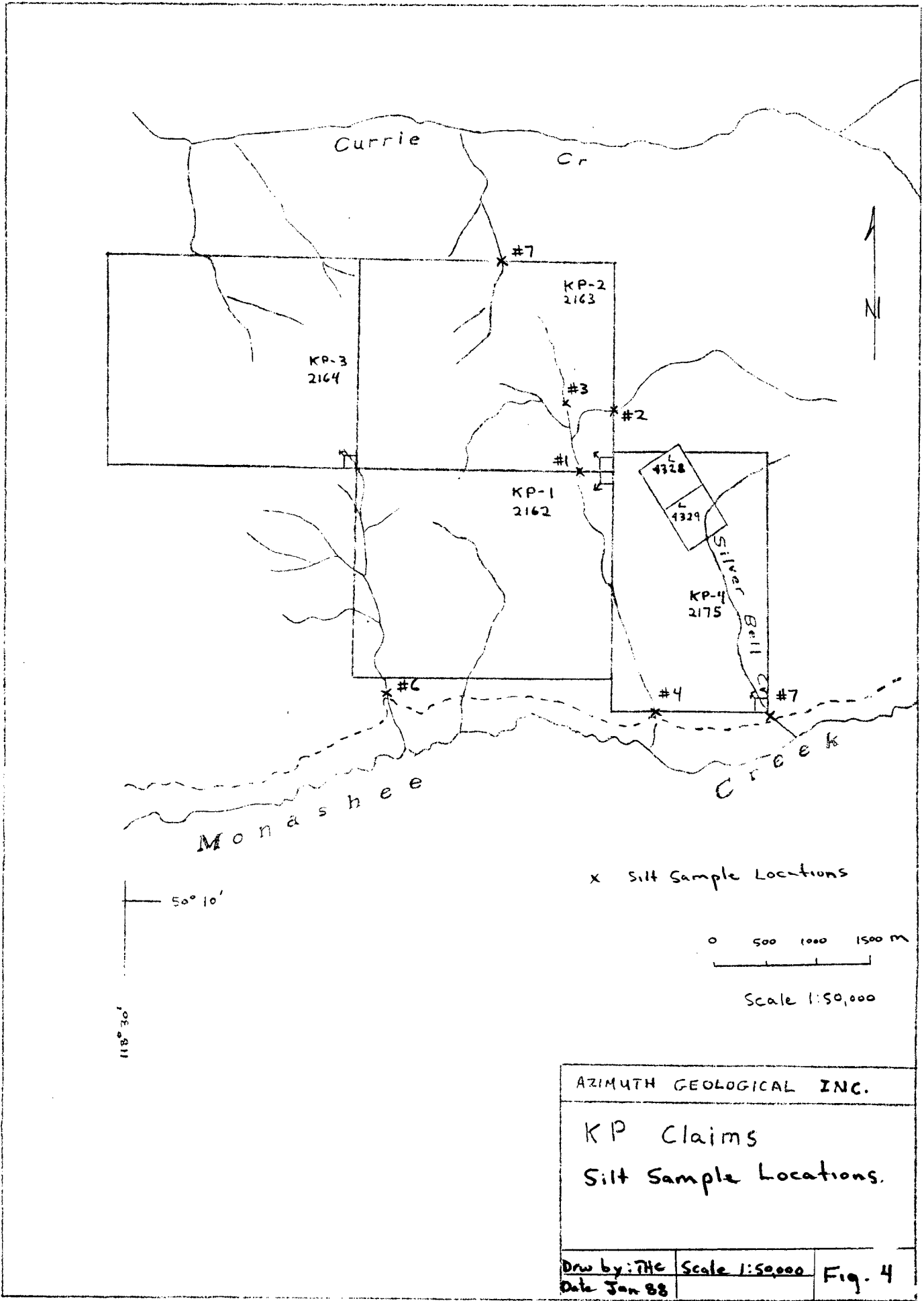
PROGRAM METHODS

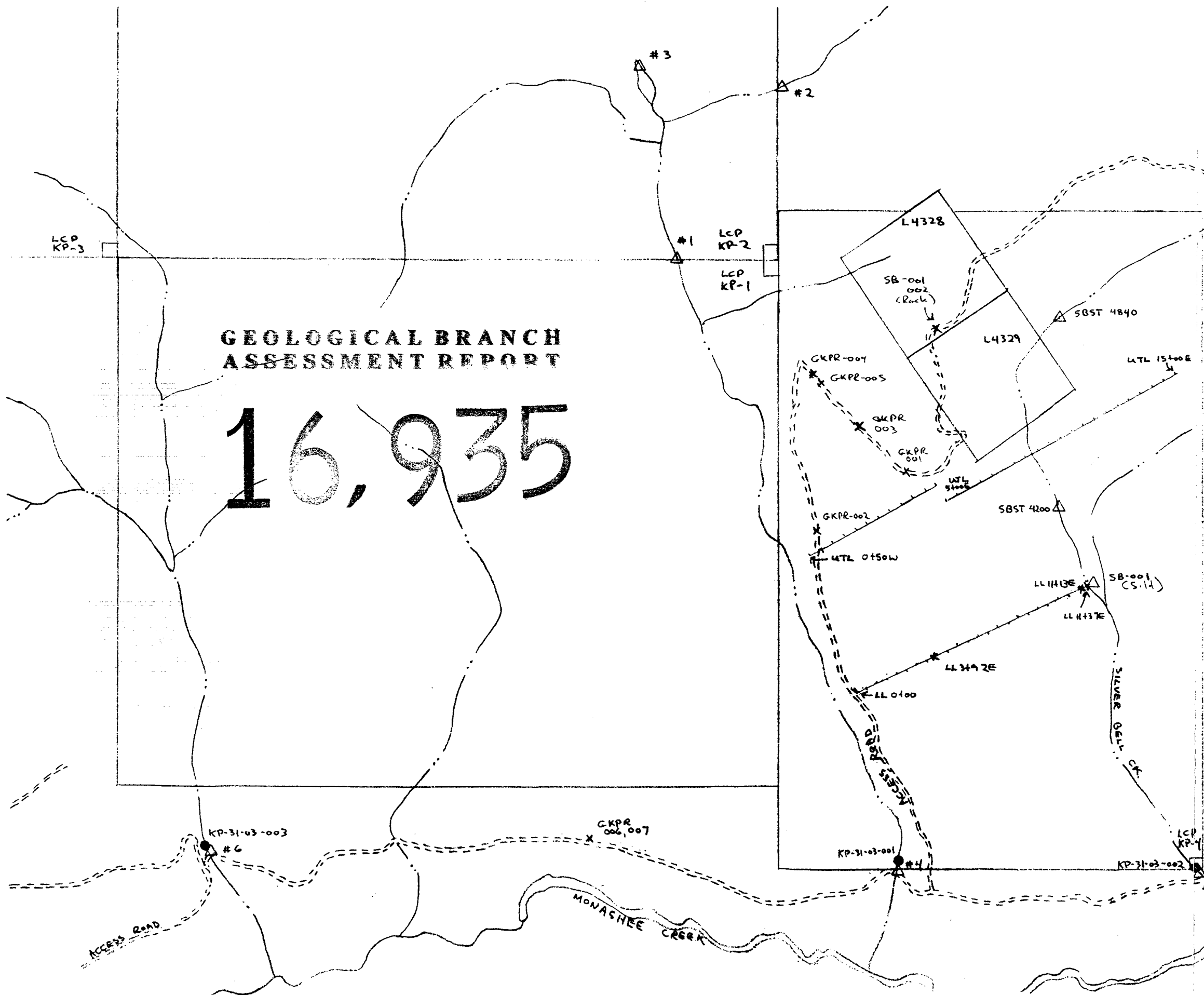
Seven silt samples and three heavy mineral samples were collected from streams draining the property. Sample locations are shown on Figs. 4 and 5 respectively.

Analytical results are included in Appendix II. Silt samples were also collected from Silver Bell Creek during the course of the soil sampling program (Fig. 5).

A total of 56 soil samples were collected from two soil lines across the KP-4 claim (Fig. 5). Soils were collected at 50 metre intervals from the "B" horizon at a depth of from 10-30 cm using a steel shovel. Samples were placed in Kraft sample bags and shipped to Acme Analytical Laboratories for analysis. Analytical procedures are outlined in Appendix I.

Prospecting was done mainly along the road leading to the McQueen workings at the head of Silver Bell Creek. Rock sample locations are shown on Fig. 5. Results of analyses are included in Appendix II.





**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,935

- LEGEND**
- Soil Sample Lines & Locations
 - KP-31-03-001 Heavy Mineral Sample
 - △ #4 Silt Sample
 - × LL3192E Rock Sample Location

0 500 metres
Scale 1:20,000

AZIMUTH GEOLOGICAL INC.		
KP Claims Sample Location Map.		
Drawn by: T.H.C.	Scale: 1:20,000	Fig. 5
Date: Jan 88		

PROGRAM RESULTS

Silt samples #1 to #7 contained background values from 5 to 25 ppb Au. Site # SBST 4200 collected from Silver Bell Creek contained 173 ppb Au. A heavy mineral sample taken where Silver Bell Creek crosses the access road assayed 7050 ppb Au.

The results of soil samples collected show values ranging from 1 ppb to 120 ppb with 53% of the samples containing less than 5 ppb Au, 15% with 5-10 ppb, 7% with 11-20 ppb and 25% containing in excess of 20 ppb Au. 10% of the samples collected contained in excess of 40 ppb Au.

Of nine rock samples collected, one sample float (GKPR 002) contained 2680 ppb Au, 433.8 ppm Ag, 13310 ppm Zn, 21510 pm Pb and 432 ppm Cu.

Prospecting overall indicates the widespread occurrence of quartz float over the claims. Outcrop however is extremely limited comprising no more than 1-2% of the claim area.

CONCLUSIONS

The KP claims cover an area of largely argillitic rocks of the Cache Creek group. Within these rocks are found quartz veins ranging up to 4.5 m in width and 150 metres in length. Historically, economic values in Au and Ag have been produced from these veins.

The intimate association of these veins with porphyritic sills suggests an intrusive origin. Other evidence indicates a quartz stockwork system may exist on the claims related to intrusive rocks underlying the Cache Creek group in the vicinity. Similar intrusives are believed to be related to mineralizing events at the former Chaput mine in Lumby, 37 kilometers to the west (Kuran, D.L., BCDM Assessment Report #14,469).

Other than the present work and development of exposed quartz veins, there is no record of previous exploration in the claim area. With less than 10% bedrock exposure it is highly likely that undiscovered mineralized quartz veins still exist on the property. As well, the possibility of a low grade, high tonnage goldbearing quartz stockwork system in the area has not previously been considered.

Continued exploration for both types of target is warranted considering the number of anomalous values in the limited number of samples collected to date.

RECOMMENDATIONS

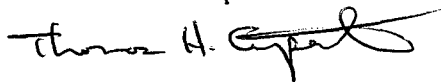
Continued exploration on the KP claims is recommended. This exploration should take the form of contour soil sampling combined with VLF-EM and magnetometer surveys, prospecting and mapping to define anomalous areas.

Follow-up work within these target zones would consist of detailed VLF-EM and magnetometer surveys to define geological structures. Resistivity surveys in conjunction with the VLF-EM survey should be used to outline areas of quartz veining and silicification.

Positive results in this phase of the program should be followed by trenching and/or a diamond drilling program.

Respectively submitted,

Thomas H. Carpenter

A handwritten signature in cursive script, appearing to read "Thomas H. Carpenter", written in black ink.

STATEMENT OF EXPENSES

Personnel

G. Crowe Geologist	Prospecting/Sampling Report Preparation	8 days @ \$250/day	\$ 2,000.00
T. Carpenter Geologist	Prospecting/Sampling Report Prep./Drafting	10 days @ \$250/day	2,500.00

Food & Accommodation

Food	18 man days @ \$25/day	450.00
Accommodation	18 man days @ \$30/day	540.00

Truck Rental

Rental	16 days @ \$50/day	800.00
Fuel		200.00

Equipment

150.00

Geochemical Analysis

Soils	56	at 11/sample	616.00
Silts	11	at 11/sample	121.00
Rocks	14	at 15/sample	210.00
Pan Concentrates			238.00

Report & Overhead

750.00

TOTAL

\$ 8,575.00

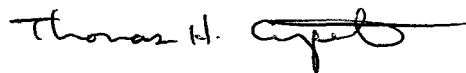
CERTIFICATE

I, Thomas H. Carpenter, of the City of Vernon, in the Province of British Columbia hereby certify that:

1. I am a Geologist with an office at 3011 23rd Street, Vernon, B.C.
2. I hold a Bachelor of Science degree in Geology from Memorial University of Newfoundland granted in May of 1971.
3. I have been practicing my profession continuously since that date in Canada, the United States and Australia.
4. I am a Fellow of the Geological Association of Canada (Membership Number F4838).
5. This report is based on work carried out by myself and others during April and October 1987 and on an evaluation of previously acquired technical data.

Dated this 22nd day of January, 1988

Thomas H. Carpenter, B.Sc., F.G.A.C.



REFERENCES

British Columbia Department of Mines - Assessment Report # 13876

British Columbia Department of Mines - Assessment Report # 14391

British Columbia Department of Mines - Assessment Report # 14469

British Columbia Department of Mines - Assessment Report # 14451

British Columbia Minister of Mines Report 1927

Jones, A.G., Vernon Map Area, Geological Survey of Canada Memoir 296, 1959.

APPENDIX I
LABORATORY PROCEDURES

VANGEOCHEM LAB LTD.
1521 Pemberton Ave.
North Vancouver, B.C.
V7P 2S3

TO: AZIMUTH GEOLOGICAL SERVICE
#404 - 850 W. Hastings Street
Vancouver, B.C. V6C 1E1

FROM: Vangeochem Lab Ltd.
1521 Pemberton Ave.
North Vancouver, B.C. V7P 2S3

SUBJECT: Analytical procedure used to determine gold by fire-
assay method and detected by atomic absorption spec. in
geological samples.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4" x 6" Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh for finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Extraction

- (a) 20.0 - 30.0 grams of the pulp samples were used. Samples were weighed out by using a top-loading balance into fusion pot.
- (b) A Flux of litharge, soda ash, silica, borax, flour, or potassium nitrite is added, then fused at 1900 degrees F and a lead button is formed.

(c) The gold is extract by cupellation and part with diluted nitric acid.


(d) The gold bead is saved for measurement later.

3. Method of Detection

(a) The gold bead is dissolved by boiling with sodium cyanide, hydrogen peroxide and amonium hydroxide.

(b) The gold analyses were detected by using a Techtron model AAS Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out on a strip chart recorder. The gold values in parts per billion were calculated by comparing them with a set of gold standards.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. David Chiu and his laboratory staff.



David Chiu
VANGEOCHEM LAB LTD.

VANGEOCHEM LAB LTD.
1521 Pemberton Ave.
North Vancouver, B.C.
V7P 2S3

TO: Mr. Greg Crowe
Ram Exploration Ltd.
404 - 850 West Hastings St.
Vancouver B.C. V6C 1E1

FROM: Vangeochem Lab Ltd.
1521 Pemberton Ave.
North Vancouver, B.C. V7P 2S3

SUBJECT: Analytical procedure used to determine multiple elements
in hot acid soluble by Induction Couple Plasma
Spectrometer (ICP) analysis.

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4" x 6" Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hand using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

- (a) 0.500 gram of -80 mesh sample was used.
- (b) Samples were digested in a hot water bath with diluted aqua regia acids.
- (c) The digested samples were diluted to a fixed volume and shaken well.

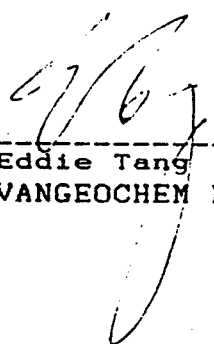
(d) The Au complex ions were extracted into diisobutyl ketone and thiourea medium. (Anion exchange liquids "Aliquot 336").

(e) Separate Funnels were used to separate the organic layer.

3. Method of Detection

The gold analyses were detected by using a Techtron model AAS Atomic Absorption Spectrophotometer with a gold hollow cathode lamp. The results were read out on a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values in parts per billion were calculated by comparing them with a set of gold standards.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.



Eddie Tang
VANGEOCHEM LAB LTD.

APPENDIX II
ANALYTICAL RESULTS



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
NORTH VANCOUVER, B.C. V7P 2S3
(604) 986-5211 TELEX: 04-352578

BRANCH OFFICE
1630 PANDORA ST.
VANCOUVER, B.C. V5L 1L6
(604) 251-5656

REPORT NUMBER: 860578 GA

JOB NUMBER: 860578

AZIMUTH GEOLOGICAL

PAGE 1 OF 1

SAMPLE #	Au
SILT #1	000
SILT #2	25
SILT #3	5
SILT #4	10
SILT #5	20
SILT #6	20

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE (604)253-3158 FAX (604)253-1716

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH JML 3-1-2 HCL-HNO3-H2O AT 95 DEG.C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: P1-ROCK P2-SOIL AU: ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: SEPT 29 1987 DATE REPORT MAILED: Oct 13/87

ASSAYER: D. Toyer... DEAN TOYE, CERTIFIED B.C. ASSAYER

AZIMUTH GEOLOGICAL PROJECT-KP CLAIMS File # 87-4621 Page 1

SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	AU#
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
GKPR-001	2	11	122	83	.6	7	3	512	3.15	7	5	ND	3	242	2	2	3	2	4.41	.010	2	6	1.44	20	.01	2	.06	.01	.02	1	53
GKPR-002	1	432	21510	13310	433.8	4	1	86	.89	149	5	3	1	4	160	168	176	1	.04	.003	2	2	.03	8	.01	2	.05	.01	.02	1	2680
GKPR-003	1	4	42	17	.7	6	1	253	1.24	4	5	ND	1	18	1	2	2	2	.78	.029	2	2	.06	19	.01	5	.06	.02	.01	1	1
GKPR-004	3	33	548	127	5.7	23	6	232	2.25	13	5	ND	4	5	1	2	2	4	.03	.001	6	3	.12	95	.01	2	.32	.01	.07	1	77
GKPR-005	1	4	28	52	.2	6	3	252	1.00	7	5	ND	1	5	1	2	2	1	.09	.019	7	1	.01	14	.01	2	.08	.03	.01	1	1
GKPR-006	10	16	35	29	.3	16	4	222	1.43	32	5	ND	1	3	1	4	2	2	.01	.006	2	1	.01	17	.01	3	.08	.01	.03	1	8
GKPR-007	14	7	13	3	.2	11	2	43	1.15	13	5	ND	1	3	1	2	2	2	.01	.009	2	1	.02	13	.01	3	.12	.01	.04	1	6
STD C/AU-R	18	58	38	132	7.3	67	27	1022	3.91	39	19	7	38	48	18	18	21	57	.46	.084	37	63	.90	176	.08	36	1.84	.05	.13	13	480

✓ ASSAY REQUIRED FOR CORRECT RESULT -

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: DEC 7 1987
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE (604)253-3158 FAX (604)253-1716 DATE REPORT MAILED: *Dec 10/87*

ASSAY CERTIFICATE

- SAMPLE TYPE: Pulp AU** BY FIRE ASSAY FROM 1/2 A.T.

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

ARMENO RESOURCES PROJECT-KP CLAIMS File # 87-4621 R

SAMPLE#	AU** oz/t
GKPR-002	.071

AZIMUTH GEOLOGICAL PROJECT-KP CLAIMS FILE # 87-4621

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AUX PPB
UTL 0+50W	5	22	16	131	.7	33	10	342	2.65	30	5	ND	5	12	1	2	2	21	.15	.070	17	9	.18	145	.03	2	1.48	.01	.07	1	6
UTL 0+00E	1	24	4	118	.9	37	8	361	2.68	25	5	ND	6	19	2	2	2	26	.23	.177	6	10	.18	155	.11	3	4.68	.03	.04	1	8
UTL 0+50E	1	22	11	152	.6	40	11	441	2.92	24	5	ND	4	15	1	2	2	28	.14	.077	11	14	.26	148	.07	2	2.75	.02	.07	1	120
UTL 1+00E	1	16	12	63	.2	20	7	448	2.09	9	5	ND	4	13	1	2	2	21	.15	.133	6	7	.16	102	.15	3	5.23	.03	.04	1	1
UTL 1+50E	1	17	12	88	.2	25	6	289	2.32	19	5	ND	5	11	1	2	2	22	.12	.110	7	10	.19	114	.11	2	4.09	.02	.05	1	1
UTL 2+00E	1	12	10	75	.4	20	6	487	1.77	10	5	ND	4	14	1	2	2	18	.13	.107	8	7	.15	101	.09	2	3.06	.03	.05	1	1
UTL 2+50E	1	11	7	74	.4	20	5	382	1.43	7	5	ND	3	16	1	2	2	18	.19	.083	7	7	.14	105	.11	2	2.62	.03	.06	1	1
UTL 3+00E	1	18	7	99	1.4	30	7	877	1.62	18	5	ND	3	11	1	2	2	19	.10	.112	12	9	.13	145	.09	2	2.59	.03	.05	1	4
UTL 3+50E	1	12	14	87	.4	22	6	598	1.86	14	5	ND	3	15	1	2	2	22	.16	.107	8	9	.14	161	.09	2	2.58	.02	.05	1	1
UTL 4+00E	1	16	10	94	1.0	18	6	918	1.93	11	5	ND	4	15	2	2	2	23	.13	.106	9	9	.14	170	.09	5	2.59	.02	.05	1	1
UTL 4+50E	1	14	9	93	1.4	21	5	524	1.70	11	5	ND	3	12	1	2	2	20	.12	.103	10	11	.17	152	.06	3	1.81	.02	.05	1	1
UTL 5+00E	1	10	9	72	1.1	23	6	263	1.84	12	5	ND	3	15	1	4	2	20	.18	.164	6	8	.10	140	.10	2	3.02	.03	.05	1	1
UTL 5+50E	1	15	14	106	.5	19	8	479	2.27	20	5	ND	3	7	1	2	2	26	.06	.095	11	12	.16	126	.06	3	2.14	.02	.05	1	1
UTL 6+00E	1	22	6	82	1.2	30	6	149	1.67	14	5	ND	2	20	1	2	2	17	.24	.111	7	8	.13	84	.07	2	2.40	.02	.05	1	1
UTL 6+50E	1	16	6	65	.9	23	6	253	2.16	20	5	ND	3	18	1	2	2	22	.22	.171	8	11	.21	100	.08	4	2.64	.02	.05	1	1
UTL 7+00E	1	14	12	75	.6	19	6	458	2.28	19	5	ND	3	13	1	2	2	26	.15	.204	6	10	.16	92	.12	3	4.34	.02	.05	1	1
UTL 7+50E	6	26	15	96	.2	30	7	106	2.12	21	5	ND	3	13	1	2	2	16	.14	.050	20	9	.23	77	.01	2	1.40	.01	.06	1	5
UTL 8+00E	1	9	10	59	.9	20	6	232	2.03	15	5	ND	3	16	1	2	2	23	.17	.107	8	10	.16	88	.09	2	2.55	.02	.05	1	1
UTL 8+50E	1	9	15	62	.9	21	6	373	2.09	16	5	ND	2	19	1	2	2	24	.23	.159	6	9	.13	107	.10	2	2.79	.02	.04	1	1
UTL 9+00E	3	47	15	97	.6	43	10	408	3.11	24	5	ND	5	24	1	3	2	23	.29	.062	19	37	.55	61	.03	2	1.09	.01	.09	1	1
UTL 9+50E	1	41	17	117	.5	40	11	498	3.16	29	5	ND	7	14	2	2	2	19	.16	.084	23	24	.45	105	.03	5	1.69	.01	.07	1	26
UTL 10+00E	1	40	19	122	.5	38	11	387	2.98	30	5	ND	8	11	1	2	2	21	.10	.074	22	22	.41	132	.03	2	1.86	.01	.08	1	13
UTL 10+50E	1	19	15	99	.7	32	8	581	2.19	16	5	ND	5	14	1	2	2	19	.14	.052	15	14	.25	114	.04	2	1.63	.01	.07	1	8
UTL 11+00E	1	20	15	127	.4	32	12	653	2.66	29	5	ND	4	21	1	2	2	22	.20	.127	10	12	.23	133	.09	2	2.33	.02	.06	1	11
UTL 11+50E	1	20	15	84	.7	33	10	589	2.45	22	5	ND	3	14	1	2	2	20	.14	.096	13	14	.27	128	.06	3	2.40	.02	.07	1	7
UTL 12+00E	1	31	14	135	.7	32	11	653	2.72	23	5	ND	5	13	1	2	2	25	.15	.069	15	16	.27	172	.04	3	2.33	.01	.07	1	5
UTL 12+50E	2	19	21	123	1.0	35	11	448	2.76	23	5	ND	4	12	2	2	2	26	.13	.108	12	13	.20	172	.07	2	2.81	.02	.07	1	76
UTL 13+00E	2	14	9	78	.3	27	9	335	2.45	21	5	ND	4	25	1	2	2	20	.27	.039	16	13	.28	120	.03	3	1.75	.01	.08	1	73
UTL 13+50E	2	15	11	80	.8	29	8	455	2.22	20	5	ND	4	16	1	2	2	18	.15	.111	16	11	.20	161	.03	3	1.36	.01	.10	1	7
UTL 14+00E	1	32	15	102	1.0	39	9	294	2.21	18	5	ND	3	12	1	2	2	19	.10	.067	12	13	.25	130	.04	2	1.84	.02	.06	1	20
UTL 14+50E	3	23	12	108	.7	32	8	341	2.41	26	5	ND	3	19	1	2	2	18	.21	.092	16	10	.18	126	.02	2	1.51	.01	.08	1	4
UTL 15+00E	5	20	18	137	.7	36	12	335	2.76	29	5	ND	4	15	1	2	2	22	.18	.081	15	10	.19	136	.03	2	1.68	.01	.07	1	61
STD C/AU-S	19	59	38	129	7.1	65	27	1006	3.86	40	24	7	38	48	18	18	22	57	.48	.085	36	58	.88	174	.07	36	1.79	.06	.13	13	50

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEC. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-SOIL/SILT P2-ROCK AU8 ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 21 1987

DATE REPORT MAILED: *Nov 3/87*ASSAYER: *D. J. Toy*... DEAN TOYE, CERTIFIED B.C. ASSAYER

AZIMUTH GEOLOGICAL PROJECT-KP CLAIMS File # 87-5111 Page 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE %	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA %	P %	LA PPM	CR PPM	MG %	BA PPM	TI %	B PPM	AL %	NA %	K %	W PPM	AU8 PPB
LL 0+00	1	13	10	91	1.3	26	7	564	2.95	73	5	ND	2	18	1	2	2	28	.16	.227	4	12	.12	136	.11	2	5.05	.03	.04	1	12
LL 0+50	1	11	5	116	.9	25	5	621	1.87	12	5	ND	3	14	1	2	2	19	.13	.194	6	9	.13	173	.09	2	3.30	.03	.07	1	1
LL 1+00	1	12	11	137	.5	24	6	518	2.12	12	5	ND	3	12	1	2	2	20	.11	.222	8	11	.17	179	.06	2	1.99	.02	.08	1	1
LL 1+50	1	10	13	107	.4	22	5	366	1.70	7	5	ND	3	16	1	2	2	17	.16	.086	10	9	.15	142	.05	2	1.64	.02	.08	1	9
LL 2+00	2	12	7	76	.1	17	5	692	1.59	9	5	ND	3	10	1	2	2	16	.09	.047	12	10	.16	167	.02	5	1.02	.02	.07	1	1
LL 2+50	1	11	8	121	.6	23	5	608	1.76	15	5	ND	2	18	1	2	2	18	.17	.263	8	11	.15	248	.06	2	1.94	.03	.08	1	1
LL 3+00	1	12	9	127	.6	28	7	530	2.04	13	5	ND	2	18	1	2	2	23	.19	.197	7	16	.18	171	.06	3	2.32	.03	.11	1	2
LL 3+50	1	12	11	121	.6	36	6	446	2.02	10	5	ND	3	13	1	2	2	21	.12	.126	10	12	.18	210	.06	3	2.27	.03	.08	1	1
LL 4+00	1	12	9	96	.9	32	6	486	1.86	12	5	ND	3	16	1	2	2	19	.13	.113	9	10	.13	147	.07	2	2.21	.03	.06	1	52
LL 4+50	1	10	7	62	.7	22	3	273	1.51	8	5	ND	4	17	1	2	2	15	.21	.162	7	8	.10	147	.10	3	3.26	.04	.03	1	2
LL 5+00	1	13	11	101	1.2	31	5	627	1.86	17	7	ND	3	16	1	2	2	19	.19	.209	8	10	.14	188	.06	2	2.59	.03	.08	1	1
LL 5+50	1	21	13	82	1.0	30	4	270	1.86	12	5	ND	2	21	1	2	2	17	.21	.146	8	8	.16	232	.05	2	2.01	.03	.08	1	1
LL 6+00	1	11	11	89	.7	23	5	759	1.86	11	5	ND	2	24	1	2	2	20	.24	.186	6	10	.12	283	.07	2	2.36	.03	.06	1	1
LL 6+50	1	17	10	91	.7	20	5	695	1.71	9	5	ND	2	12	1	2	2	15	.12	.109	9	9	.11	151	.03	2	1.33	.02	.05	1	2
LL 7+00	1	64	13	177	3.0	47	11	432	2.11	22	5	ND	2	11	1	2	2	13	.12	.080	8	5	.10	173	.02	2	1.32	.02	.09	1	4
LL 7+50	1	29	10	97	1.1	35	8	186	2.81	14	5	ND	5	16	1	2	2	23	.15	.151	7	17	.18	179	.08	2	4.50	.03	.06	1	7
LL 8+00	1	11	11	85	.5	17	5	594	1.75	9	5	ND	2	15	1	2	2	18	.16	.210	7	10	.13	132	.09	2	2.38	.03	.05	1	1
LL 8+50	1	12	14	106	.6	19	7	375	2.38	17	5	ND	2	13	1	2	2	22	.13	.246	8	13	.15	165	.07	2	2.12	.02	.04	1	1
LL 9+00	1	11	13	70	.3	15	6	1227	2.06	14	5	ND	2	22	1	2	2	23	.19	.104	6	11	.11	150	.09	7	2.44	.03	.03	1	2
LL 9+50	2	21	12	80	.5	18	8	787	2.33	18	5	ND	1	10	1	2	2	20	.09	.061	11	11	.20	94	.04	2	1.62	.02	.05	1	1
LL 10+00	1	10	9	64	.7	13	5	418	2.08	16	5	ND	2	15	1	2	2	21	.17	.166	4	10	.13	117	.12	2	3.72	.03	.03	1	1
LL 10+50	4	39	13	91	.6	28	8	337	2.83	25	5	ND	5	18	1	2	2	17	.26	.035	15	18	.32	68	.01	2	.97	.02	.06	1	22
LL 11+00	3	32	12	85	.4	31	9	424	2.95	22	5	ND	5	12	1	2	2	19	.13	.043	18	22	.33	95	.01	5	1.11	.02	.07	1	42
LL 11+37	4	41	17	101	.6	38	10	530	3.01	25	5	ND	3	33	1	2	2	17	.41	.064	12	27	.41	74	.02	3	.78	.02	.03	1	47
SBST 4840	4	61	17	118	.3	40	11	736	3.84	32	5	ND	4	24	1	2	2	17	.26	.060	13	22	.40	75	.01	2	.76	.02	.06	1	10
SBST 4200	4	45	19	111	.5	40	11	664	3.60	29	5	ND	5	27	1	2	2	16	.30	.060	14	26	.40	72	.01	2	.76	.02	.06	1	173
STD C/AU-S	19	58	39	133	7.4	68	27	1030	4.02	40	17	7	38	50	18	17	22	57	.48	.085	38	60	.84	178	.07	38	1.81	.08	.13	13	50

AZIMUTH GEOLOGICAL PROJECT-KP CLAIMS FILE # 87-5111

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SAMPLE#	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	HG	BA	TI	B	AL	NA	K	W	AU#
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
LL 3+92E	1	5	21	13	.3	2	1	145	.74	3	5	ND	1	6	1	2	3	2	.11	.021	3	5	.02	24	.01	2	.11	.02	.03	1	7
LL 11+13E	1	3	2	3	.1	2	1	81	.39	2	7	ND	1	1	1	2	2	1	.01	.002	2	5	.01	4	.01	2	.02	.01	.01	1	6
SB 001	2	4	14	15	.2	6	2	319	1.17	14	5	ND	3	103	1	3	2	1	1.36	.032	6	3	.42	7	.01	5	.04	.05	.01	1	45

VANGEOCHEM LAB LIMITED

MAIN OFFICE: 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2S3 PH: (604)986-5211 TELEX: 04-352578
 BRANCH OFFICE: 1630 PANDORA ST. VANCOUVER B.C. V5L 1L6 PH: (604)251-5656

ICAP GEOCHEMICAL ANALYSIS

A .5 GRAM SAMPLE IS DIGESTED WITH 5 ML OF 3:1:2 HCL TO HNO3 TO H2O AT 95 DEG. C FOR 90 MINUTES AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR SN, MN, FE, CA, P, CR, MG, BA, PD, AL, NA, K, W, PT AND SR. AU AND PD DETECTION IS 3 PPM.
 IS= INSUFFICIENT SAMPLE, ND= NOT DETECTED, -= NOT ANALYZED

COMPANY: AZIMUTH
 ATTENTION:
 PROJECT:

REPORT#: 870334PA
 JOB#: 870334
 INVOICE#: 870334NA

DATE RECEIVED: 87/04/08
 DATE COMPLETED: 87/04/08
 COPY SENT TO:

ANALYST *W. P. Lewis*

PAGE 1 OF 1

SAMPLE NAME	AG PPM	AL %	AS PPM	AU PPM	BA PPM	BI PPM	CA %	CD PPM	CO PPM	CR PPM	CU PPM	FE %	K %	MG %	MN PPM	MO PPM	NA %	NI PPM	P %	PB PPM	PD PPM	PT PPM	SB PPM	SM PPM	SR PPM	U PPM	W PPM	ZN PPM
SB-001	.1	.14	3	ND	16	ND	1.64	.1	2	110	9	1.39	.08	.60	511	1	.01	8	.04	19	ND	ND	ND	ND	109	4	3	28
SB-002	4.1	.17	37	ND	16	ND	.05	8.1	2	197	189	1.13	.04	.03	200	19	.01	9	.01	110	ND	ND	4	ND	5	ND	ND	600
SB-003	.1	.17	5	ND	41	ND	.32	.1	3	121	15	1.37	.07	.03	361	3	.01	10	.02	27	ND	ND	ND	ND	7	6	3	41
SB-004	.1	1.03	ND	ND	63	ND	11.30	.1	3	34	14	2.22	.11	.44	1676	ND	.01	6	.06	49	ND	ND	ND	ND	1199	ND	ND	39
SI-002A	.2	1.14	27	ND	91	ND	.53	.1	13	21	49	3.94	.13	.56	713	4	.01	43	.08	21	ND	ND	ND	ND	45	ND	ND	115
SI-003A	1.3	1.45	22	ND	152	ND	1.62	2.4	12	17	69	4.04	.16	.76	986	5	.01	37	.10	57	ND	ND	4	ND	62	ND	ND	192
DETECTION LIMIT	.1	.01	3	3	1	3	.01	.1	1	1	1	.01	.01	.01	1	1	.01	1	.01	2	3	5	2	2	1	5	3	1



VANGEOCHEM LAB LIMITED

MAIN OFFICE
1521 PEMBERTON AVE.
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(604) 251-5656

REPORT NUMBER: B70334 GA

JOB NUMBER: B70334

AZIMUTH GEOLOGICAL

PAGE 1 OF 1

SAMPLE #	Au
	ppb
KP-31-63-001	175
KP-31-63-002	7050
KP-31-63-003	5
SB - 001	nd
SB - 002	340
SB - 003	40
SB - 004	320
SI - 002A	20
SI - 003A	30

DETECTION LIMIT

5

nd = none detected

-- = not analysed

is = insufficient sample