

MAP No.

ASSESSMENT REPORT
 N. M. E. A. P.
 CONFIDENTIAL
 OPEN FILE



TYPE OF
 WORK: GEOLOGICAL, GEOCHEMICAL

105 F 9


REPORT FILED UNDER	AMERLIN EXPLORATION SERVICES	DOCUMENT NO. 091684
DATE PERFORMED	22-27 July 1985	DATE FILED: 16 December 1985
LOCATION - LAT. LONG.	61°33'N	AREA: Ketzá River
	132°17'W	
CLAIM NO.	QUILL 4 YA70985	
	QUILL 6 YA70987	
	QUILL 17-22 YA70998-YA71003	
VALUE \$ 4,000.00		
WORK DONE BY	AMERLIN EXPLORATION SERVICES LTD.	
WORK DONE FOR	HIGH RIVER RESOURCES AND QUILLO RESOURCES	

REMARKS
 117- ~~QUILL~~
~~901684~~
 091684

YEX 85 p. 130

Precambrian to Lower Cambrian clastics of interbedded phyllites and sandstones are overlain by Lower Cambrian carbonates along a sheared contact zone. Two types of sulphide mineralization were found, both within the Precambrian-Lower Cambrian clastics. The first is massive, auriferous pyrrhotite-arsenopyrite boulder-size float in the central part of the claim group. The second is a well developed, steeply dipping northwest trending fracture system, which forms a sheeted or stockwork-like zone extending across the width of the property. Vuggy quartz veins with pyrite and arsenopyrite are common fracture fillings, and wallrock is typically bleached and contains disseminated pyrite.

The 1985 work program consisted of preliminary geological mapping prospecting, talus fines and stream sediment sampling, as well as limited soil sampling. High background levels of gold and arsenic were encountered, indicating mineralization extends across the entire sampled area. Anomalous gold and arsenic were found in talus fines below sulphide bearing veins, and soil sampling above and adjacent to massive pyrrhotite mineralization had values of up to 3289 ppm As and 685 ppb Au.



**PRELIMINARY
GEOLOGICAL AND GEOCHEMICAL REPORT
ON THE QUILL 4, 6, 17 - 21 CLAIMS**



Watson Lake Mining District, Y.T.
NTS 105F/9
(61°33'N, 132°17'W)



for

HIGH RIVER RESOURCES LTD.
715 - 525 Seymour Street
Vancouver, B.C. V6B 3H9

and

QUILLO RESOURCES INC.
16821 - 113 Avenue
Edmonton, Alberta T5M 2X2

by

Carl G. Verley, B.Sc., Geologist
AMERLIN EXPLORATION SERVICES LTD.
422 - 470 Granville Street
Vancouver, B.C. V6C 1V5
(604) 689-1966

December 1985

CLAIMS: Quill 4, 6, 17 - 21 inclusive
LOCATION: 30 miles (48 km) south of Ross River, Y.T.
DATE: July 22 to 27, 1985

091684

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 \$ 7,000.00.

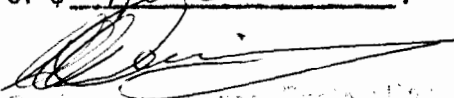

Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

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Plates

Plate 1.	Geology
2.	Au, Ag Geochemistry
3.	As, Cu Geochemistry
4.	Pb, Zn Geochemistry

S U M M A R Y A N D C O N C L U S I O N S

High River Resources Ltd. and Quillo Resources Inc. are joint owners of the Quill 4, 6, 17 - 21 mineral claims. The claims are situated in the Pelly Mountains, Watson Lake Mining District (105F/9), 48 kilometres south-southeast of Ross River, Yukon Territory. The property is accessible by helicopter, however a road to Canamax Resources Inc.'s Ketz River gold property passes within 2 kilometres of the claims.

The group is underlain by Precambrian to Lower Cambrian clastics which are overlain by Lower Cambrian carbonates. The whole succession in general dips gently to the west.

The current program of work consisted of preliminary geological mapping, prospecting, talus fines and stream sediment sampling. Results indicated that two styles of

mineralization occur on the property in the clastic sequence. Massive, auriferous pyrrhotite-arsenopyrite float is concentrated in the central part of the group. This type of mineralization is similar to that found on Canamax's Ketzá River gold property 2 kilometres south of the claims, although occurring at a lower stratigraphic horizon than the Canamax deposit. A second style of mineralization is auriferous pyrite-arsenopyrite in quartz veins associated with a well developed steeply dipping northeasterly striking fracture system. This suggests that the area is the locus of intense gold-bearing hydrothermal activity. It is believed that there is excellent potential for locating a low-grade, large tonnage gold deposit on the claims. Further work is strongly recommended to fully evaluate the claims. The estimated cost of the proposed program is \$141,000.

I N T R O D U C T I O N

This report describes the results of a preliminary evaluation of the Quill 4, 6, 17 - 21 mineral claims. The object of the work was to locate and examine mineral showings on the claims as well as to map and prospect the ground. A limited amount of geochemical sampling was conducted as a part of the program.

LOCATION

The claims are located 48 kilometres south-southeast of Ross River in the Watson Lake Mining District, Y.T. (NTS 105F/9). Centered at latitude $61^{\circ}33'N$ and longitude $132^{\circ}17'W$, the property covers relatively open valley bottom and the more rugged walls. Elevations range from 1500 to just over 2000 metres above sea level.

ACCESS

The property is best accessed by helicopter from Ross River (48 km) or the Ketz River airstrip (6 km). The Ketz River Road passes within 2 kilometres of the claims.

PREVIOUS WORK

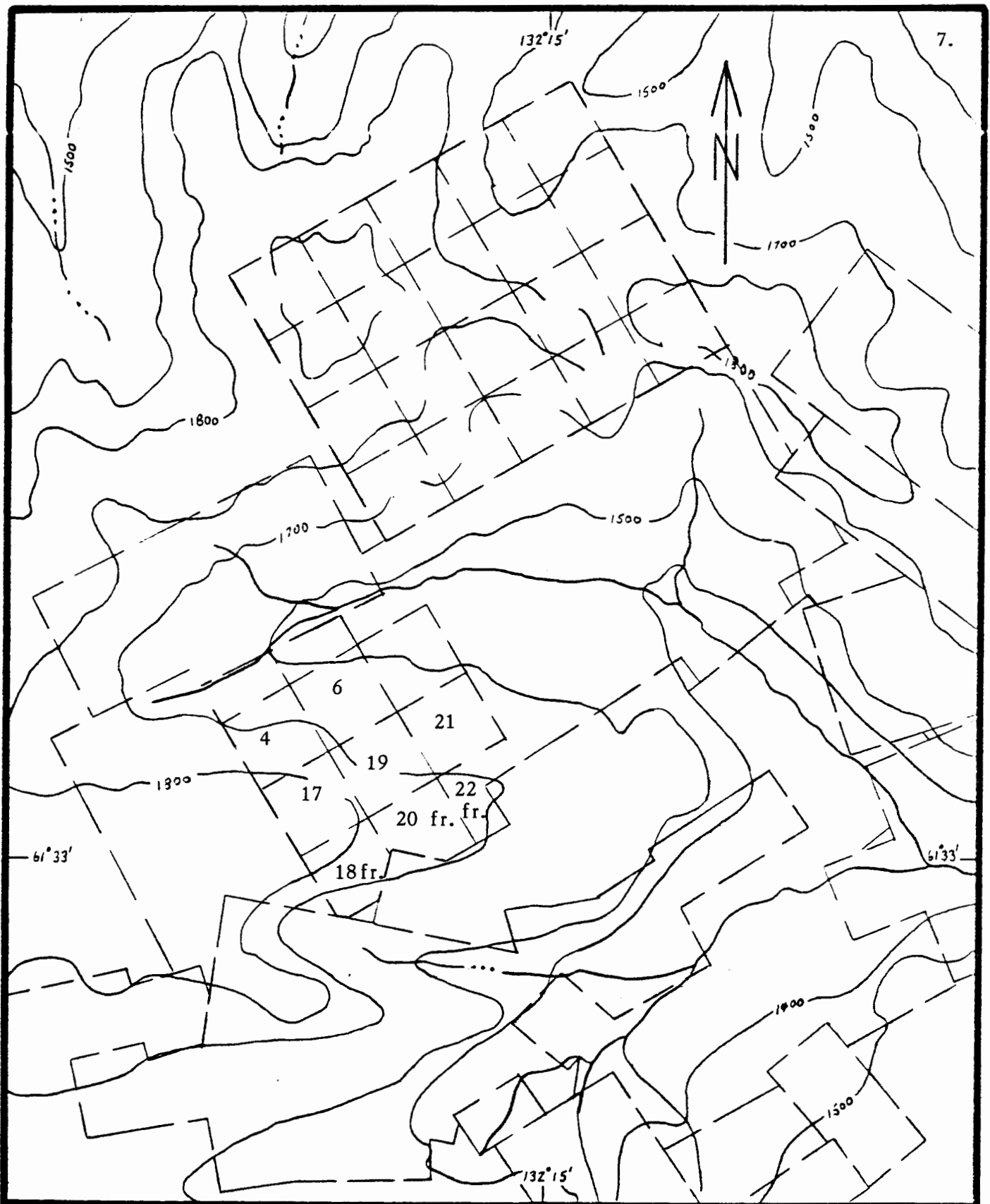
No previous work has been reported on the Quill claims. However, during the mid-1950's, Conwest Exploration Company Limited was active in the area. Their work resulted in the discovery of the Ketz River gold property, now under option to Canamax Resources Inc., and numerous silver occurrences in the area.

P R O P E R T Y

The Quill claims (Figure 2) were acquired by MBW Surveys Ltd. for High River Resources Ltd. in May 1984. The claims are currently subject to a joint venture agreement between High River and Quillo Resources Inc. The property, located in the Watson Lake Mining District (NTS 105F/9), consists of 5 full size mineral claims and 3 fractional claims:

	Grant Number	Expiry Date*	
Quill	4	YA70985	May 25, 1991
	6	YA70987	May 25, 1991
	17	YA70998	May 25, 1991
	18fr	YA70999	May 25, 1991
	19	YA71000	May 25, 1991
	20fr	YA71001	May 25, 1991
	21	YA71002	May 25, 1991
	22fr	YA71003	May 25, 1991

* Pending acceptance of current work, described herein by Mining Recorder.



CLAIM MAP

QUILL Mineral Claims

**Watson Lake Mining District, Yukon Territory
NTS 105F/9**

**Scale 1:31,680
1" = 1/4 mile**

Figure 2.

G E O L O G Y

The Quill claims are located in the Pelly Mountains, south-central Yukon. Regionally the property is situated in the Pelly-Cassiar platform, a suspect terrane (Templeman-Kluit, et al., 1985) that consists of a sequence of sediments ranging in age from Precambrian(?) to Lower Devonian. This succession is overlain by allochthonous sediments, volcanics and associated pyroclastics of Upper Devonian to Mississippian age. Rare syenitic intrusives of Mississippian(?) age intrude the sequence, however intrusive activity is not closely associated, spatially, with mineralization in the Ketzka River area.

The property is underlain mainly by Precambrian to Lower Cambrian clastics. The succession consists of interbedded phyllite and sandstone. Phyllitic rocks are brownish weathering, dark grey to greenish grey and thin-bedded. Sandstones appear to be composed of predominantly grey to

brownish, thin to thick-bedded quartzites. The thickness of this sequence underlying the claims is unknown. Precambrian to Lower Cambrian clastics host auriferous sulphide mineralization on the Quill claims.

The basal 100 metres of Lower Cambrian carbonates cover ten percent of the property, overlying the clastic sequence. The nature of the contact between the carbonates and clastics is assumed to be normal although there is some question as to this, since the actual contact zone appears sheared. The carbonates consist of thin-bedded, pale grey to tan weathering finely crystalline grey limestone. Individual beds are separated by argillaceous partings which frequently thicken into discreet shaley interbeds.

Structurally, the succession on the Quill is relatively undeformed and as a whole dips gently to the west. However, locally there are small scale folds with northwest-southeast trending axes developed in the sequence. North-westerly trending, steep dipping fractures are well developed in the clastics.

MINERALIZATION

Several large (to 1.5 m in diameter) boulders of massive pyrrhotite-arsenopyrite occur in talus in the centre of the claim block. The boulders are of such a size that they may in fact be in place or may not have travelled far. The sulphides consist of massive pyrrhotite with disseminated and locally massive concentrations of arsenopyrite and rare pyrite. A grab sample of pyrrhotite-rich material (7562) assayed 0.009 oz/t Au, 0.07 oz/t Ag and 6.61% As. Arsenopyrite-rich material (7561) assayed: 0.083 oz/t Au, 0.07 oz/t Ag and 32.83% As. This type of mineralization is similar to that found in Canamax's gold-bearing sulphide mantos and chimneys, currently under development 2 kilometres to the south. Canamax's mineralization occurs in Lower Cambrian carbonates: the formation overlying the host to massive sulphide boulders on the Quill.

A well developed steeply dipping, northeasterly trending fracture system penetrates the Precambrian-Lower Cambrian clastic sequence, forming a sheeted or stockwork-like zone. Vuggy quartz veins with pyrite and arsenopyrite (up to 4 cm wide) are common fracture fillings. Quartz veins within quartzite units are notably wider than in the enclosing

phyllitic layers. Wall rock to the veins is typically bleached and carries disseminated pyrite. Judging from the results of talus fines sampling, the mineralized vein system extends across the width of the property. This suggests that the area was the locus of an intense gold-bearing hydrothermal system. It is believed that the mineralization, veining and alteration represents the footwall alteration zone to manto and chimney mineralization on Canamax's gold deposit. It is interesting to note that the veins strike directly toward Canamax's deposit. The vein system represents a low-grade, large tonnage gold target. Furthermore, high-grade vein structures may exist within it. Further work is strongly recommended to test the area.

G E O C H E M I S T R Y

A series of 29 talus fines were collected during the course of mapping and prospecting on the property. As well, stream silt samples were collected from some of the creeks draining the claim area. Sample sites were flagged and labelled. Samples were placed in numbered bags and delivered to ACME Analytical Laboratories Ltd. in Vancouver, B.C. These samples were prepared and analysed for Au, Ag, As, Cu, Pb and Zn as per method and extraction techniques outlined on data sheets (Appendix A).

Talus fines were collected along 1.4 kilometres of line (50 metre sample interval) at approximately the 1650 metre elevation. Probability graphs of the data are found in Figures 3, 4 and 5. For each of the elements, except Zn, there appears to be mixing of two populations. It is believed that in each case one of these populations is related to mineralization and is

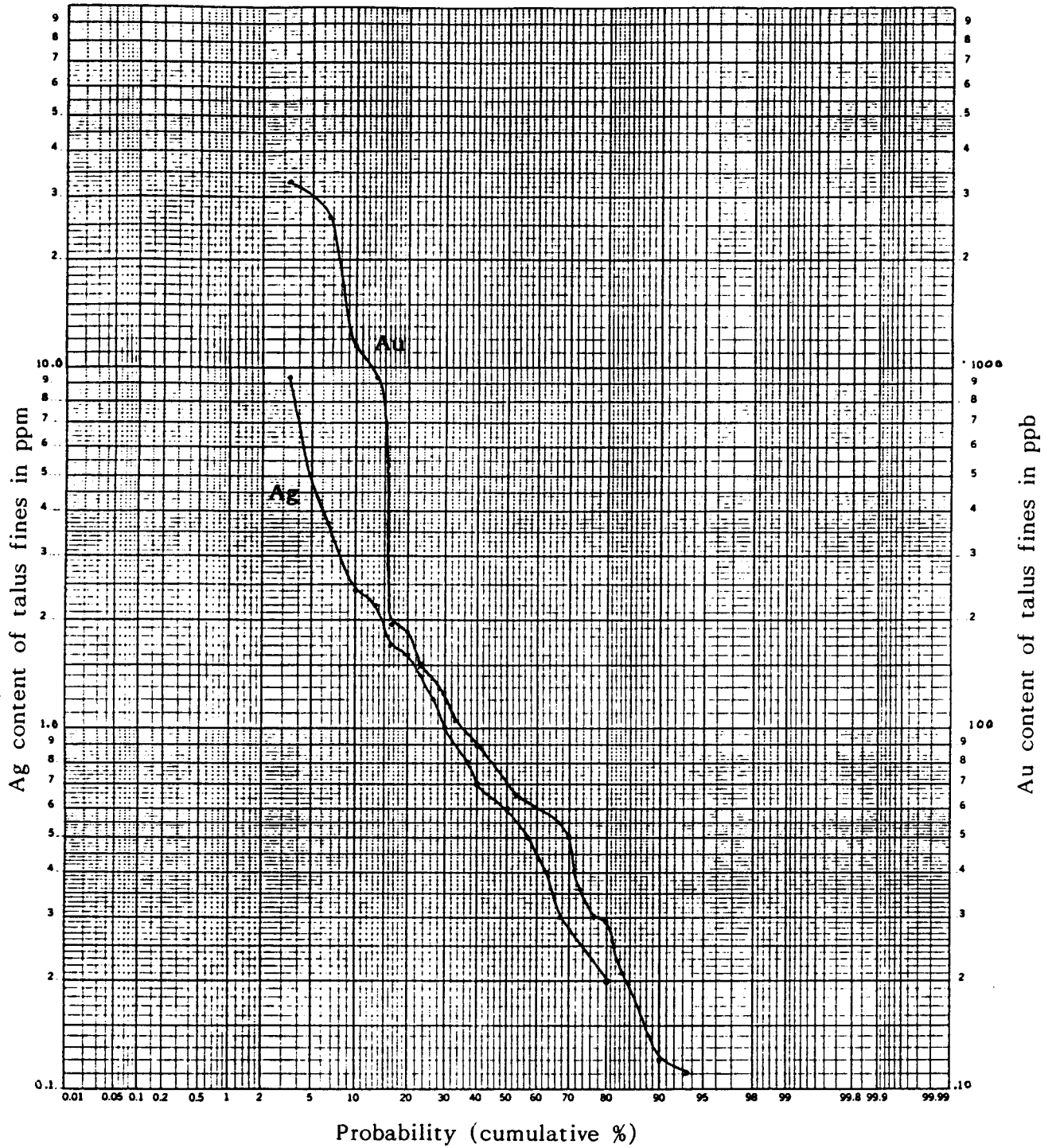


FIGURE 3
Probability Graph - Gold and Silver in Talus Fines
Quill Claims

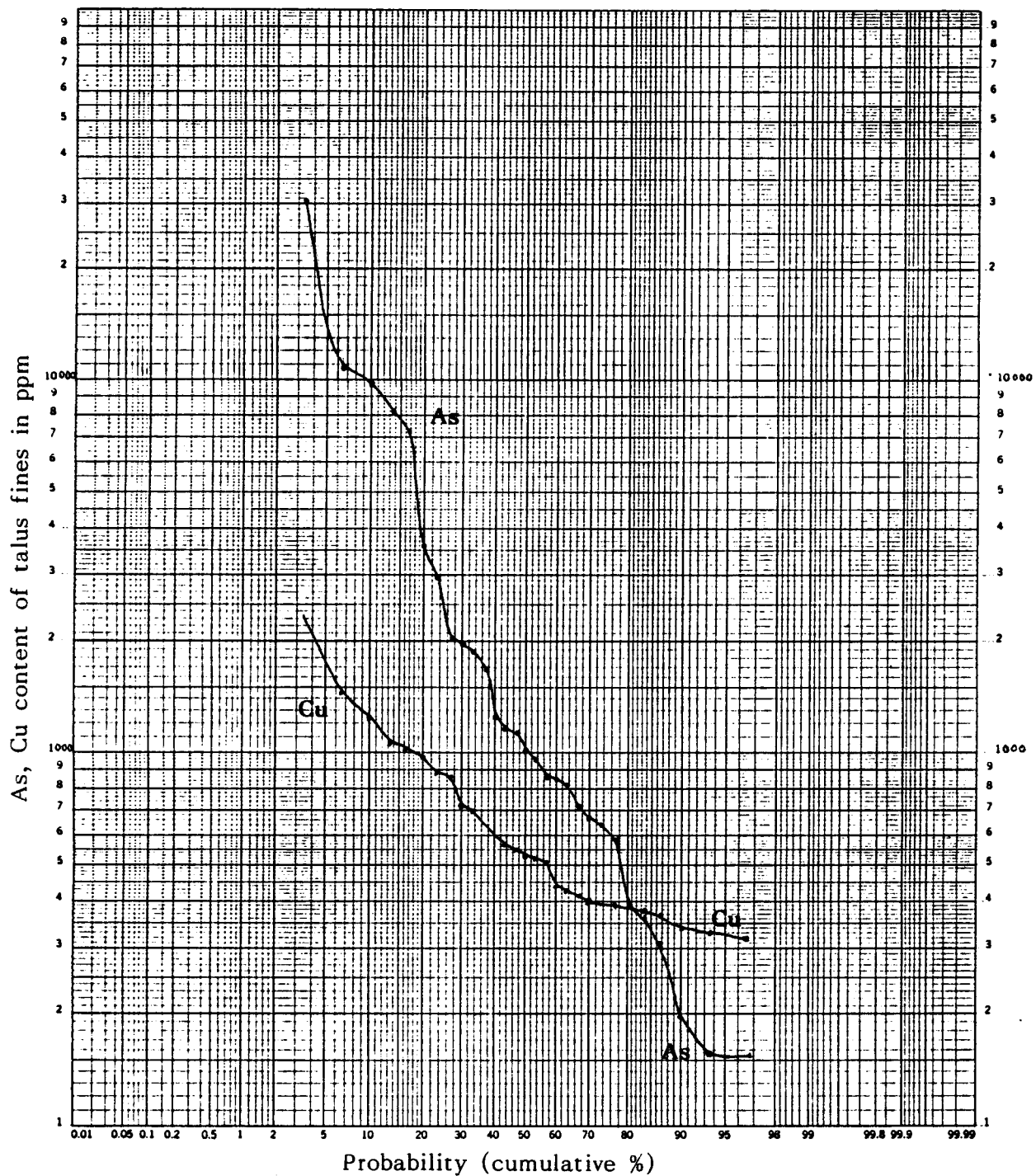


FIGURE 4
 Probability Graph - Arsenic and Copper in Talus Fines
 Quill Claims

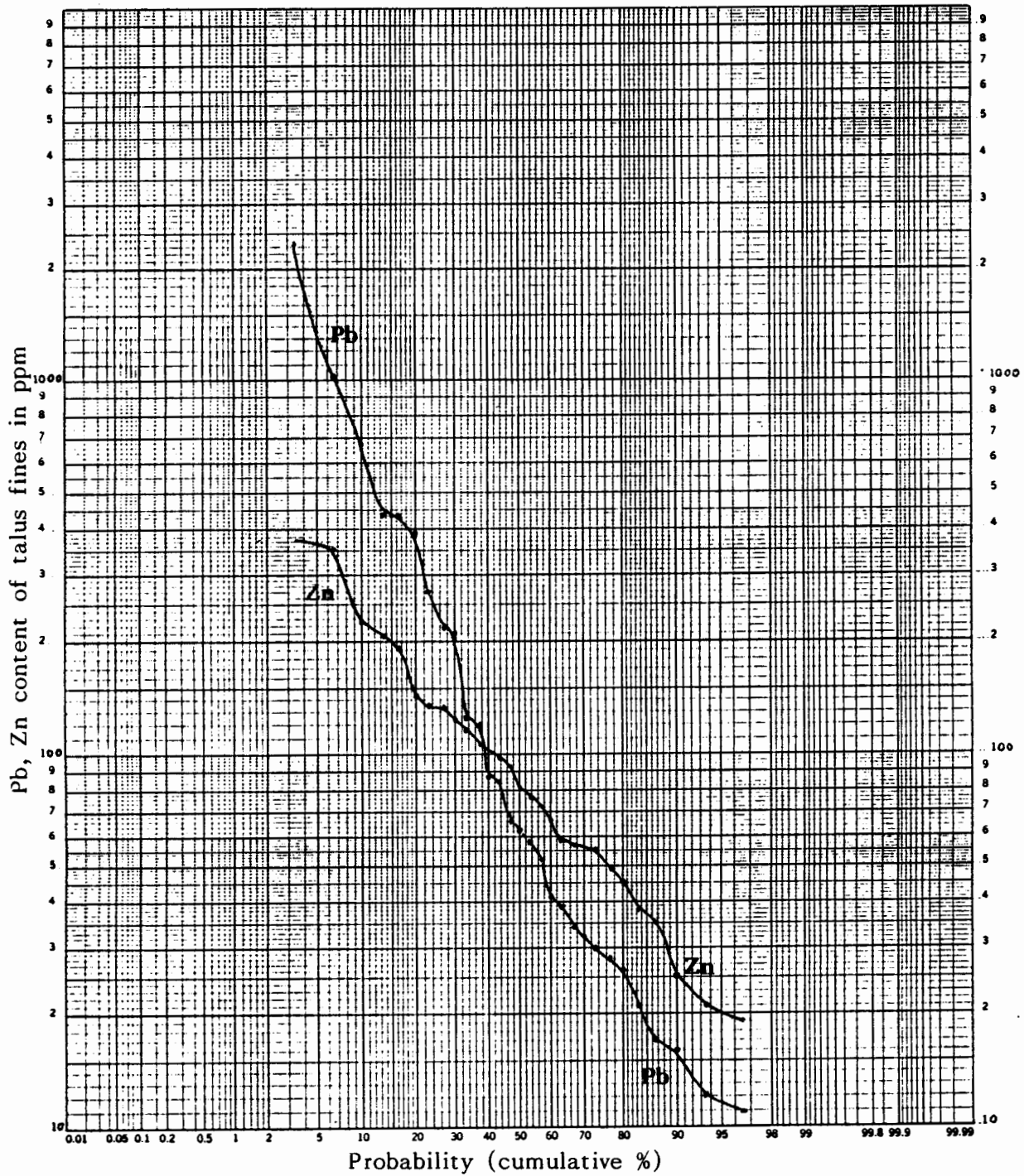


FIGURE 5

Probability Graph - Lead and Zinc in Talus Fines

Quill Claims

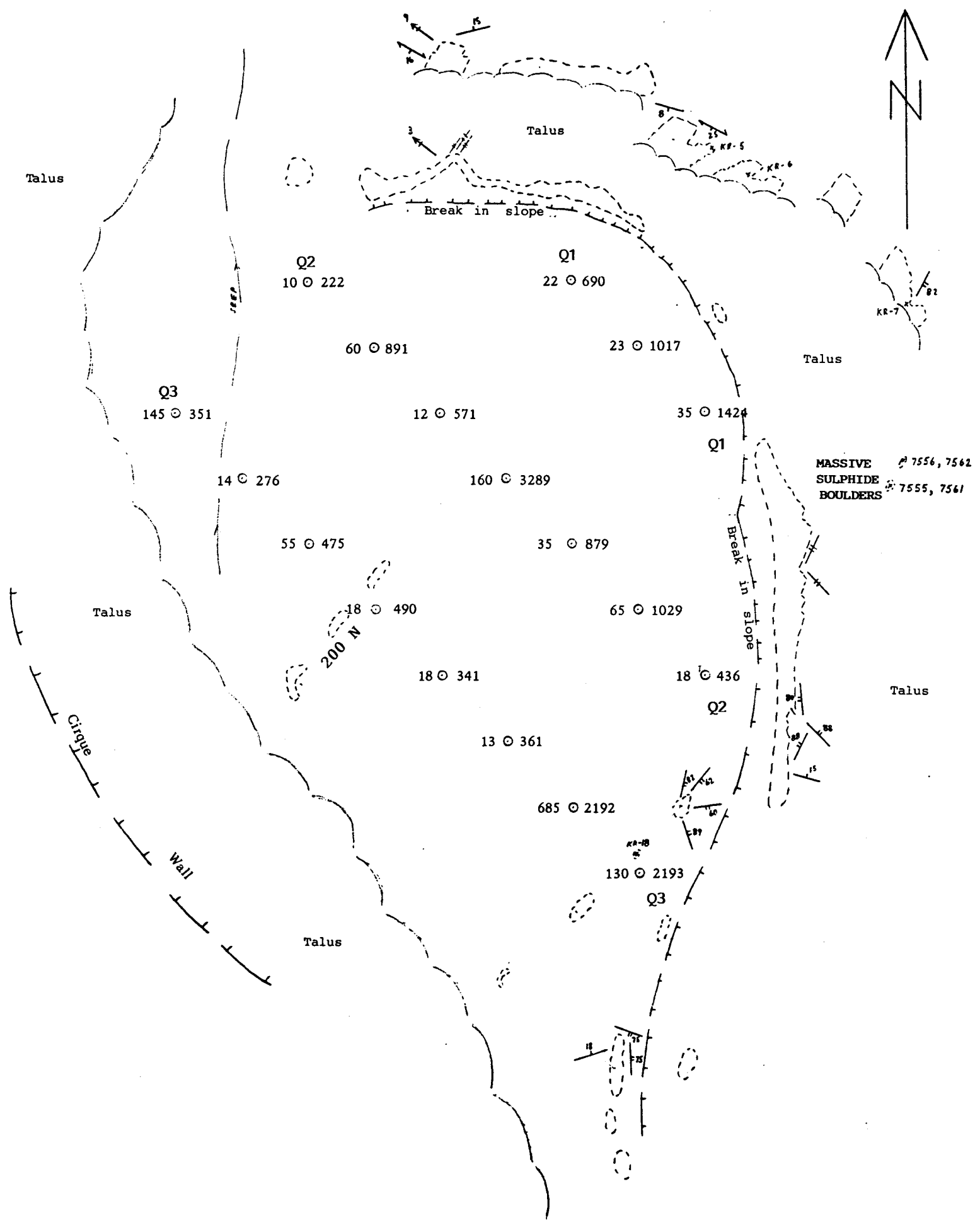
regarded as an anomalous population. An interpretation of the data in terms of background and anomalous categories is tabulated as follows.

Table 1
INTERPRETATION OF TALUS FINES DATA

	Range	Background	Possibly Anomalous	Anomalous
Au	4- 3300 ppb	4- 199 ppb	200- 499 ppb	500+ppb
Ag	0.1- 9.3 ppm	0.1- 1.0 ppm	1.1- 2.0 ppm	2.1+ppm
As	152-30205 ppm	152-1249 ppm	1250-3499 ppm	3500+ppm
Cu	11- 236 ppm	11- 44 ppm	45- 89 ppm	90+ppm
Pb	6- 2365 ppm	6- 99 ppm	100- 399 ppm	400+ppm
Zn	10- 372 ppm	10- 199 ppm	200+ppm	—

Background levels for gold and arsenic are extremely high indicating that the whole area sampled is mineralized to some extent. Clusters of anomalies are developed below outcrops where mineralized veins are known to exist.

Limited soil sampling was conducted over a small area (Figure 6) above and adjacent to the area where massive pyrrhotite mineralization occurs. Results of this work produced high arsenic and gold values (up to 3289 ppm and 685 ppb respectively) indicating mineralization is associated with veins in this area.



EXPLANATION

18 @ 436 Soil sample: Au, Ag in ppb, ppm refer to Appendix A for Ag, Cu, Pb and Zn values.

Sample interval: 25 metres.

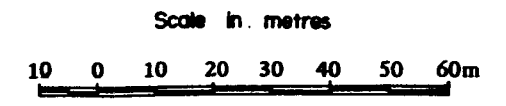
KR-7 7556 Rock sample locations: refer to Appendix A for values.

- Background
- Possibly anomalous
- Anomalous*

*categories used are those for talus fines, see text for ranges.

Note: - see Plate 1 for geology legend and for location of this plate with respect to geology and topography.

QUILLO RESOURCES INC.
HIGH RIVER RESOURCES LTD.
QUILL CLAIMS
GEOLOGY
 and
Au, As SOIL GEOCHEMISTRY OF DETAIL AREA
 KETZA RIVER AREA 105 F-8,9
 WATSON LAKE MINING DISTRICT, YUKON



by
AMERLIN EXPLORATION SERVICES LTD.
 422 - 470 Granville Street, Vancouver, B.C. V6C 1V5

FIGURE 6.

R E C O M M E N D A T I O N S

For the 1986 field season, a two-stage exploration program is recommended for the Quill claims.

PHASE I

1. **Geochemistry.**
Detailed rock sampling of exposures on claims to determine metal (Au, Ag, As, Pb, Cu, Zn) distribution.
75 samples
2. **Geological mapping**
1:2,500 scale mapping of claims
3. **Geophysics**
Geophysical survey of grid using induced polarization and magnetometer methods.

PHASE II

1. Contingent upon the success of Phase I, 600 metres of HQWL diamond drilling is recommended.

ESTIMATED COST OF RECOMMENDED
EXPLORATION PROGRAM

PHASE I

Program: Rock geochemistry
Geophysical survey
Geological mapping

Time Period: Two weeks

Personnel: Geologist
Two geophysicists
Two field assistants
Cook

COSTS

Salaries	\$ 10,000
Administrative and management fees	7,000
Geophysical surveys:	
Mobilization	2,000
IP and map (7 km @ \$715/km)	5,000
Assay and analytical	800
Camp supplies, food	2,000
Camp equipment rentals	3,500
Helicopter support (7 hrs @ \$575/hr)	4,025
Transportation	500
Travel, lodging	2,500
Report preparation	600
	<u>37,925</u>
Contingency	<u>3,075</u>
Total Phase I	\$ 41,000

PHASE II

A diamond drilling program of 600 metres is recommended to test the best geochemical/geophysical anomalies and known mineralization.

Estimated Cost of Phase II \$100,000

**TOTAL ESTIMATED COST
OF PHASE I AND II \$141,000**

Respectfully submitted,

AMERLIN EXPLORATION SERVICES LTD.

Carl G. Verley.

Carl G. Verley, F.G.A.C.

Vancouver, B.C.

December, 1985

R E F E R E N C E S

Templeman-Kluit, D.J. and R.I. Thompson, 1985: Tectonics of
The Canadian Cordillera, Geological Association of
Canada short course number 5.

Templeman-Kluit, D.J., 1977: Geology of the Quiet Lake map
area, Geological Survey of Canada Open File 486.

APPENDIX A
ANALYTICAL DATA

ASSAY AND ANALYTICAL DATA

ROCK SAMPLE DESCRIPTIONS

Sample	Description	Reference
Q1 to Q3 series	Soil samples	Figure 6
KT-11 to 40	Talus fines	Plates 2 to 4
KS-17 to 20	Stream silts	"
KR-5	Chips of pyritic phyllite	"
KR-6	Chips of vuggy, limonitic quartzite	"
KR-7	Chips of vuggy, limonitic quartz vein in quartzite	"
KR-8	Chips from 1 cm wide pyrite-filled gash	"
KR-9	Chips from 5 cm wide bleached zone with disseminated pyrite and pyrite stringers	"
KR-18	Chips of 2 cm wide quartz vein with pyrite and arsenopyrite	"
7555	Chips of arsenopyrite-rich section of massive sulphide boulder	-
7556	Chips of pyrrhotite-rich section of massive sulphide boulder	-
7561	Chips of massive arsenopyrite	Plates 2 to 4
7562	Chips of massive pyrrhotite-arsenopyrite	"

AMERLIN EXPLORATION

PROJECT - KETZA FILE # 85-1785

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au** PPB
Q1-225N	32	47	69	.1	690	22
Q1-200N	39	44	66	.1	1017	23
Q1-175N	34	44	49	.2	1424	35
Q2-275N	16	26	34	.1	222	10
Q2-250N	36	80	86	.3	891	60
Q2-225N	16	18	23	.1	571	12
Q2-200N	34	33	68	.2	3289	160
Q2-175N	27	38	71	.1	879	35
Q2-150N	35	48	65	.1	1029	65
Q2-125N	28	31	67	.1	436	18
Q3-275N	53	226	209	1.0	351	145
Q3-250N	17	60	64	.2	276	14
Q3-225N	34	217	181	.9	475	55
Q3-200N	27	197	194	.8	490	18
Q3-175N	46	64	114	.1	341	18
Q3-150N	27	10	53	.1	361	13
Q3-125N	62	41	55	.1	2192	685
Q3-100N	55	59	68	.1	2193	130
STD C/FA AU	60	40	139	6.9	37	48

ACME ANALYTICAL LABORATORIES LTD.
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: AUG 8 1985

DATE REPORT MAILED:

Aug 15/85

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 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.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: P1-SOILS P9-SILTS -80 MESH AU** ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

ASSAYER: *P10 - Soils P11 - Rocks* *J. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

AMERLIN EXPLORATION PROJECT - KETZA FILE # 85-1785

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au** PPB
KT-11	38	58	98	.5	389	36
KT-12	39	676	353	2.2	667	90
KT-13	56	127	207	.8	581	60
KT-14	236	87	135	1.0	7096	105
KT-15	44	39	66	.8	8177	55
KT-16	51	52	98	.4	994	29
KT-17	88	390	372	1.4	887	30
KT-18	70	28	49	.1	810	21
KT-19	102	66	91	.4	1885	185
KT-20	124	34	37	.6	30205	1150
KT-21	53	30	57	.2	2021	125
KT-22	38	32	72	.2	157	8
KT-23	32	26	59	.1	194	12
KT-24	41	62	107	.2	307	12
KT-25	71	217	248	1.2	1720	195
KT-26	55	441	192	1.7	1931	150
KT-27	34	1017	116	3.7	703	60
KT-28	56	2365	142	9.3	1246	55
KT-29	56	120	81	.6	868	90
KT-30	52	210	121	.7	1024	65
KT-31	43	85	136	.3	352	55
KT-32	101	269	77	1.6	10728	930
KT-33	40	16	21	.1	156	11
KT-34	11	6	10	.1	152	4
KT-35	33	11	25	.1	1160	65
KT-36	98	12	55	.1	1138	55
KT-37	37	17	35	.2	641	50
KT-38	141	41	55	.5	2984	125
KT-39	86	446	45	2.4	9779	2640
KT-40	39	21	19	.6	3565	3300
KS-17	34	49	100	.4	422	9
KS-18	142	36	56	.9	1908	70
KS-19	60	263	144	1.2	2148	120
KS-20	85	62	198	.4	1447	80

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DATE RECEIVED: AUG 8 1985

DATE REPORT MAILED: *Aug 15/85*

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 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.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-8 SOILS P9- SILTS -80 MESH AU** ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

ASSAYER: *P10 - Soils P11 - Rocks* *Y. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

AMERLIN EXPLORATION PROJECT - KETZA FILE # 85-1785

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au** PPB
KR-5	34	7	46	.2	108	5
KR-6	17	34	116	.1	472	7
KR-7	34	3	9	.1	81	4
KR-8	30	84	12	1.2	555	150
KR-9	29	2	21	.1	2095	23
KR-18	18	13	6	1.2	28049	520

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PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: AUG 8 1985

DATE REPORT MAILED: *Aug 15/85*

ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-2 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDY. CERTIFIED B.C. ASSAYER

AMERLIN EXPLORATION PROJECT - KETZA FILE # 85-1785A PAGE 1

SAMPLE#	Cu %	Pb %	Zn %	As %	Ag OZ/T	Au OZ/T
7555	.10	.05	.01	23.14	.08	.070
7556	.04	.10	.04	2.38	.10	.003
7561	.03	.02	.01	32.83	.07	.083
7562	.06	.05	.01	6.61	.07	.009

APPENDIX B
STATUTORY DECLARATION

STATUTORY DECLARATION

CANADA)
) In the matter of a geological and geochemical report
) on behalf of High River Resources Ltd. and Quillo
 TO WIT:) Resources Inc.

I, Carl G. Verley, agent for Amerlin Exploration Services Ltd.
 of 422-470 Granville Street, Vancouver, B.C. V6C 1V5

do solemnly declare, - that geological mapping and geochemical sampling were
 conducted on the QUILL 4, 6, 17, 19, 21, 18Fr, 20fr and 22fr mineral claims,
 Watson Lake Mining District, Yukon, during the period July 22 to 27, 1985.
 Expenditures for this work include:

Salaries, management fees, consulting	\$2,074.00
Helicopter support	286.80
Assay and analytical	718.89
Field supplies	99.71
Food	88.88
Fuel	43.81
Hotel	47.00
Telephone	13.07
Travel expense	55.37
Vehicle rental	440.00
Report preparation, drafting, photocopying and printing	<u>238.87</u>
TOTAL	\$4,106.40

And I make this solemn declaration conscientiously believing it to be
 true and knowing that it is of the same force and effect as if made under
 oath and by virtue of The Canada Evidence Act.

Declared before me at VANCOUVER)
)
 in the Province of B.C. this) Carl G. Verley.
)
2nd day of OCTOBER 1985.)

Connie Hammer
 A Commissioner of Oaths for Yukon
 Territory OR Notary Public for B.C.

APPENDIX C
PERSONNEL

P E R S O N N E L

Mr. C. G. Verley
301 - 1867 West 3rd Avenue
Vancouver, B.C. V6J 1K9

Geologist

Mr. Michael Woods
5 Teak Avenue
Whitehorse, Y.T. Y1A 4W5

Field Assistant

APPENDIX D
WRITER'S CERTIFICATE

AMERLIN EXPLORATION SERVICES LTD.

422-470 Granville Street, Vancouver, B.C., Canada V6C 1V5

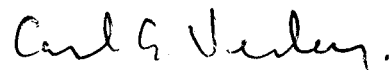
Phone (604) 689-1966

WRITER'S CERTIFICATE

I, Carl G. Verley of Vancouver, British Columbia hereby certify that:

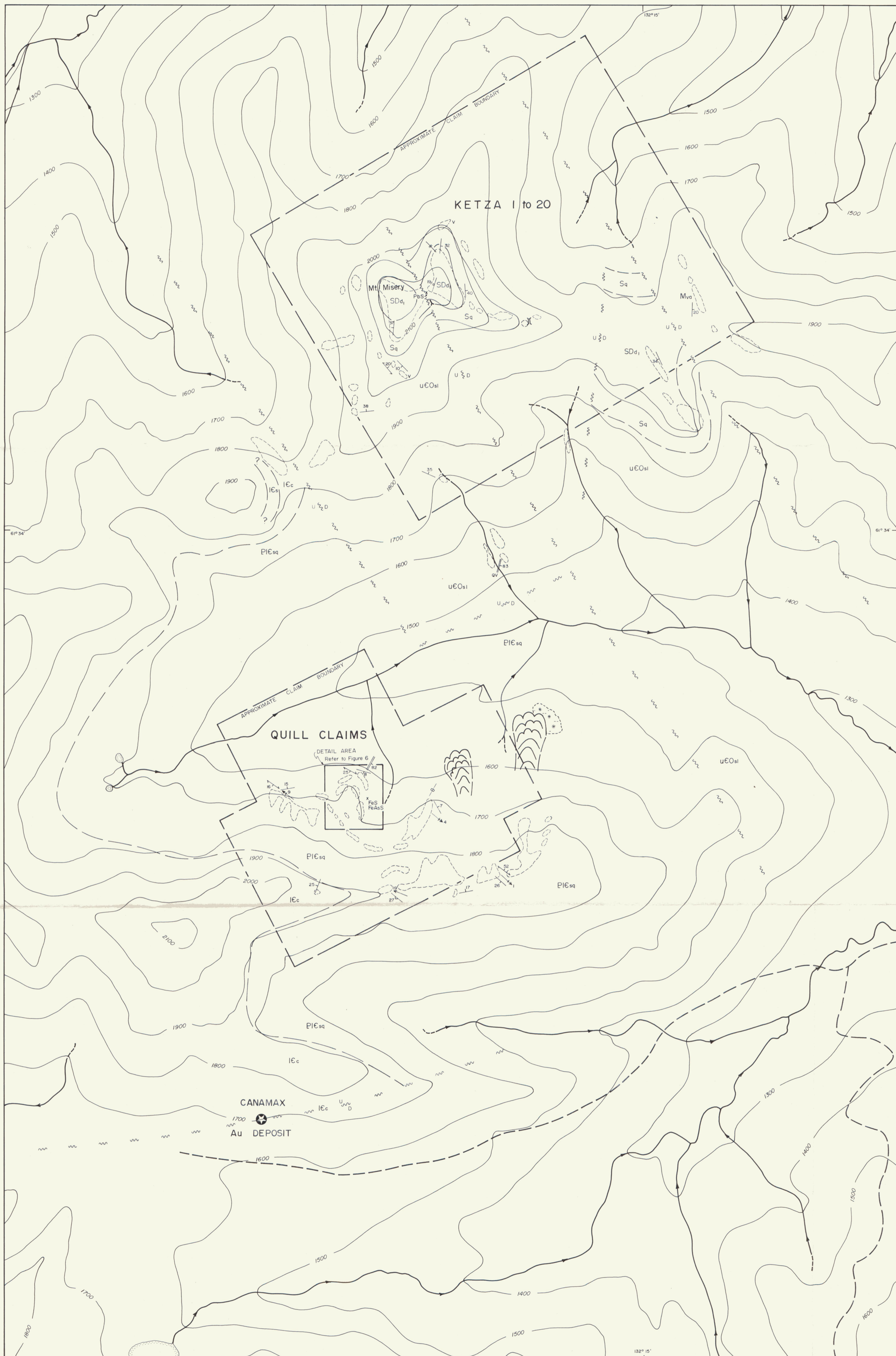
1. I am a geologist residing at 301 - 1867 West 3rd Avenue, Vancouver, B.C. and principal of Amerlin Exploration Services Ltd. 422 - 470 Granville Street, Vancouver, B.C. V6C 1V5.
2. I am a graduate of the University of British Columbia, B.Sc., in 1974, and have practised my profession since that time.
3. I am a Fellow of the Geological Association of Canada.
4. I am the author of this report which is based on work conducted by me on the QUILL 4, 6 and 17 to 22 mineral claims during the period July 22 to 27, 1985.

Amerlin Exploration Services Ltd.



Carl G. Verley, F.G.A.C.

December 6, 1895.
Vancouver, B.C.



LEGEND

LITHOLOGIES

MISSISSIPPIAN

Mva volcanics

UPPER DEVONIAN - MISSISSIPPIAN

uDMs shale

SILURIAN - DEVONIAN

SDd1 carbonates

SILURIAN

Sq quartzite

UPPER CAMBRIAN - ORDOVICIAN

uEOsl limestone, slate, v - volcanic component

LOWER CAMBRIAN

ICc carbonates, ICs - shale component

PRECAMBRIAN(?) - LOWER CAMBRIAN

PICsq quartzite and phyllite

SYMBOLS

- x FeS
FeAsS
PbS mineral occurrence: pyrrhotite, arsenopyrite, galena
- outcrop distribution
- lithologic contact: definite, inferred
- bedding
- cleavage
- jointing
- shearing
- vein
- axial plane to minor fold
- fold axis to minor fold
- lineation
- fault: definite, inferred - with sense of movement (up/down)
- adit
- trench
- rock glacier
- road

Note: - Geology outside of claim blocks adapted from GSC Open File 486
 - Topography from Dept. of Energy, Mines and Resources 1:50,000 scale map (105 F/9) and 1:250,000 scale map (105 F)
 - Contour interval: 100 metres
 - Magnetic declination: 31.5° (July, 1985)

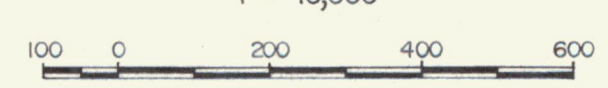
091684
 QUILLO RESOURCES INC.
 HIGH RIVER RESOURCES LTD.
 KETZA 1-20 & QUILL CLAIMS

GEOLOGY

KETZA RIVER AREA 105 F-8, 9
WATSON LAKE MINING DISTRICT, YUKON

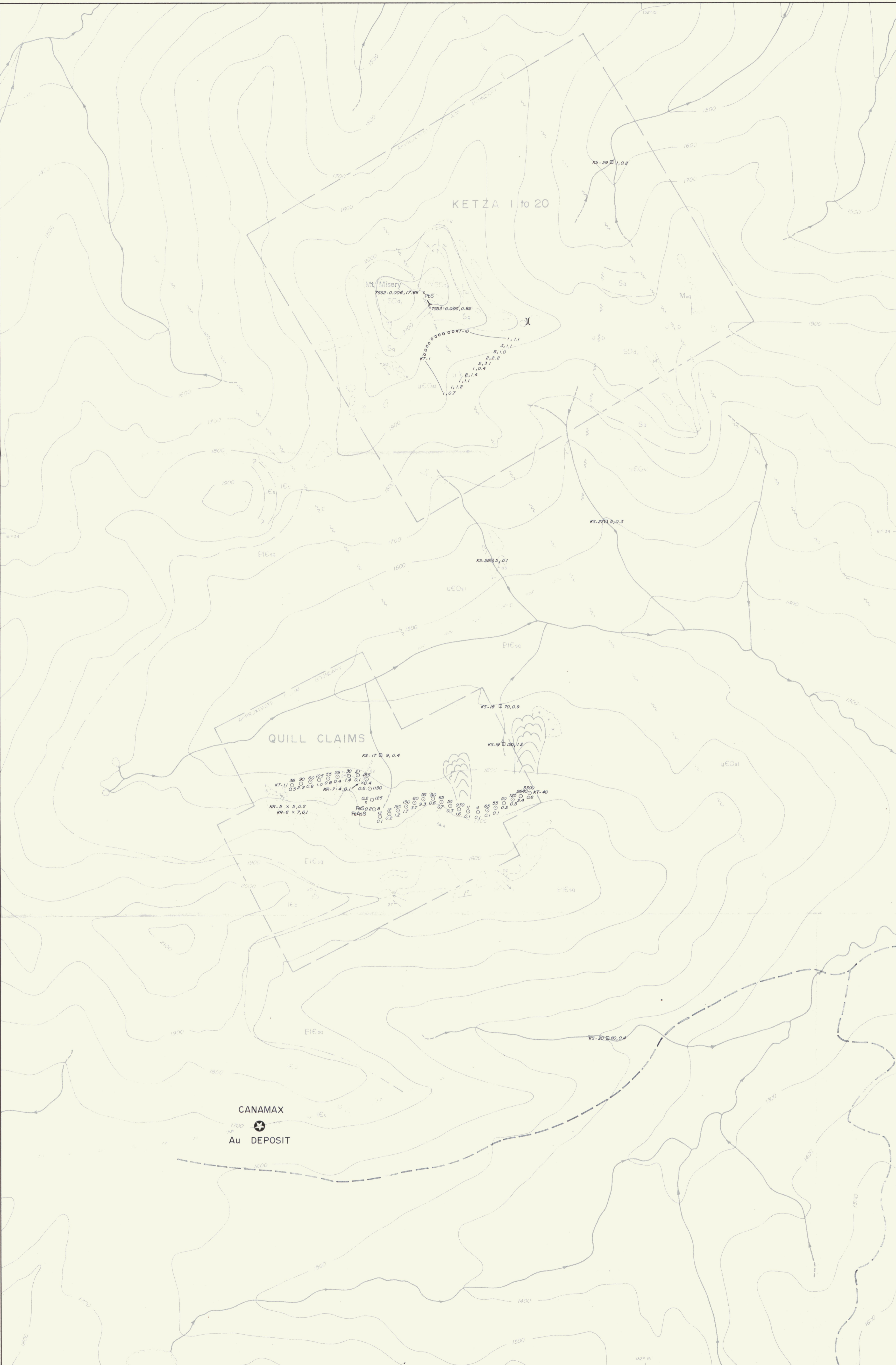
Scale in metres

1 : 10,000



by

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EXPLANATION

Sample Site

- 1,7 Talus fines, Au, Ag
- × 5,0.2 Rock^{NR-5} (geochemical analysis) Au, Ag
_{7553.3} (assay)
- 5,0.3 Stream silt, Au, Ag

Values

Analysis : Au in ppb, Ag in ppm
Assays : Au, Ag in oz/ton

- Background*
 - Possibly anomalous*
 - Anomalous*
- *refer to text for ranges of categories

Note : - Refer to Plate 1 for geology legend.

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QUILLO RESOURCES INC.
HIGH RIVER RESOURCES LTD.
KETZA 1-20 & QUILL CLAIMS
Au, Ag GEOCHEMISTRY

KETZA RIVER AREA 105 F-B, 9
WATSON LAKE MINING DISTRICT, YUKON

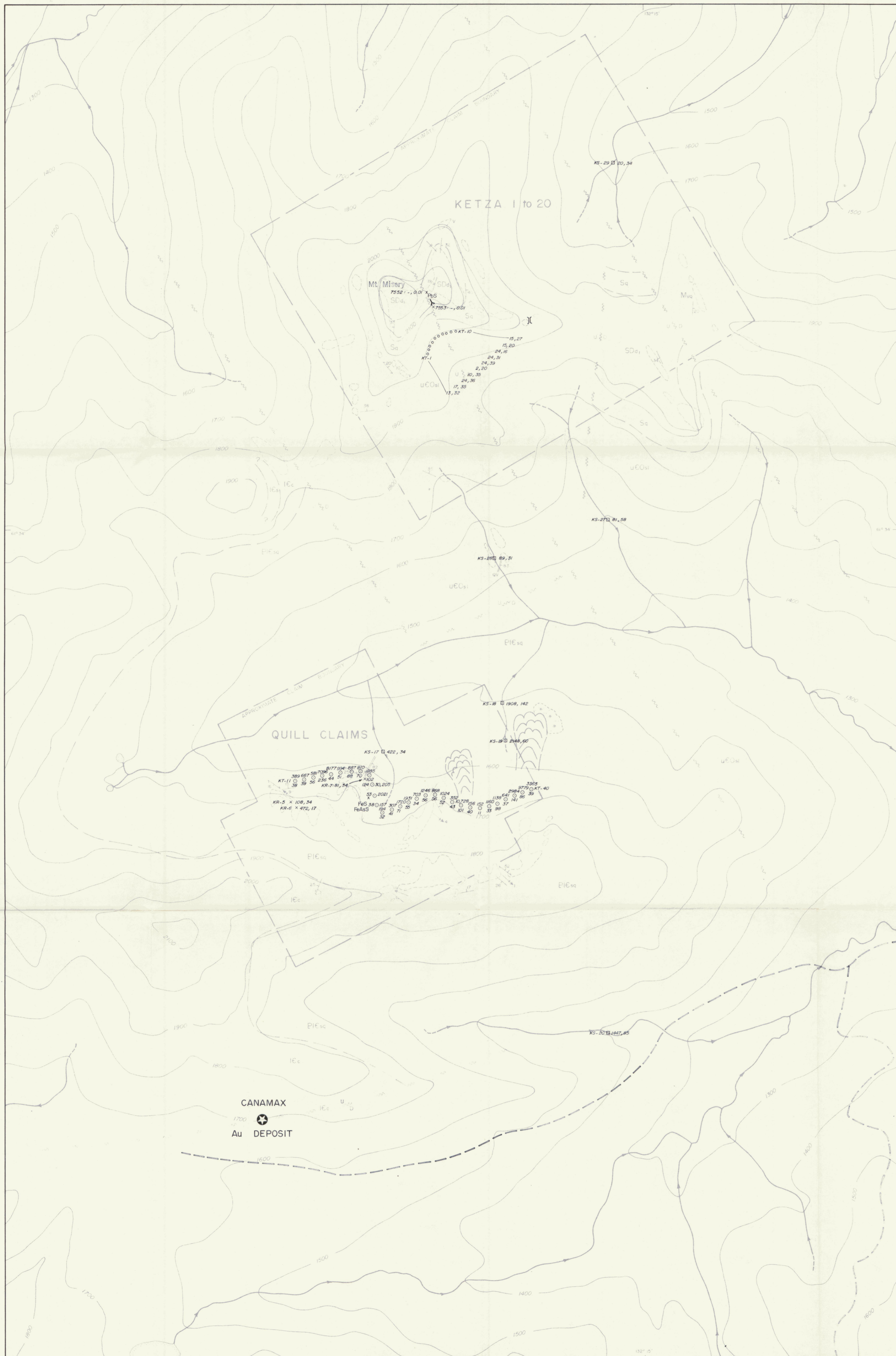
Scale in metres

1 : 10,000



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EXPLANATION

Sample Site

- Talus fines, As, Cu
- × Rock: KR-5 (geochemical analysis) As, Cu
KR-7253 (assay)
- Stream silt, As, Cu

Values

Analysis: As, Cu in ppm
Assays: As, Cu in %

- Background*
 - Possibly anomalous*
 - Anomalous*
- *refer to text for ranges of categories

Note: - Refer to Plate 1 for geology legend.

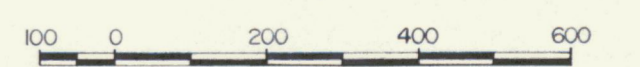
091684

QUILLO RESOURCES INC.
HIGH RIVER RESOURCES LTD.
KETZA 1-20 & QUILL CLAIMS
As, Cu GEOCHEMISTRY

KETZA RIVER AREA 105 F-8, 9
WATSON LAKE MINING DISTRICT, YUKON

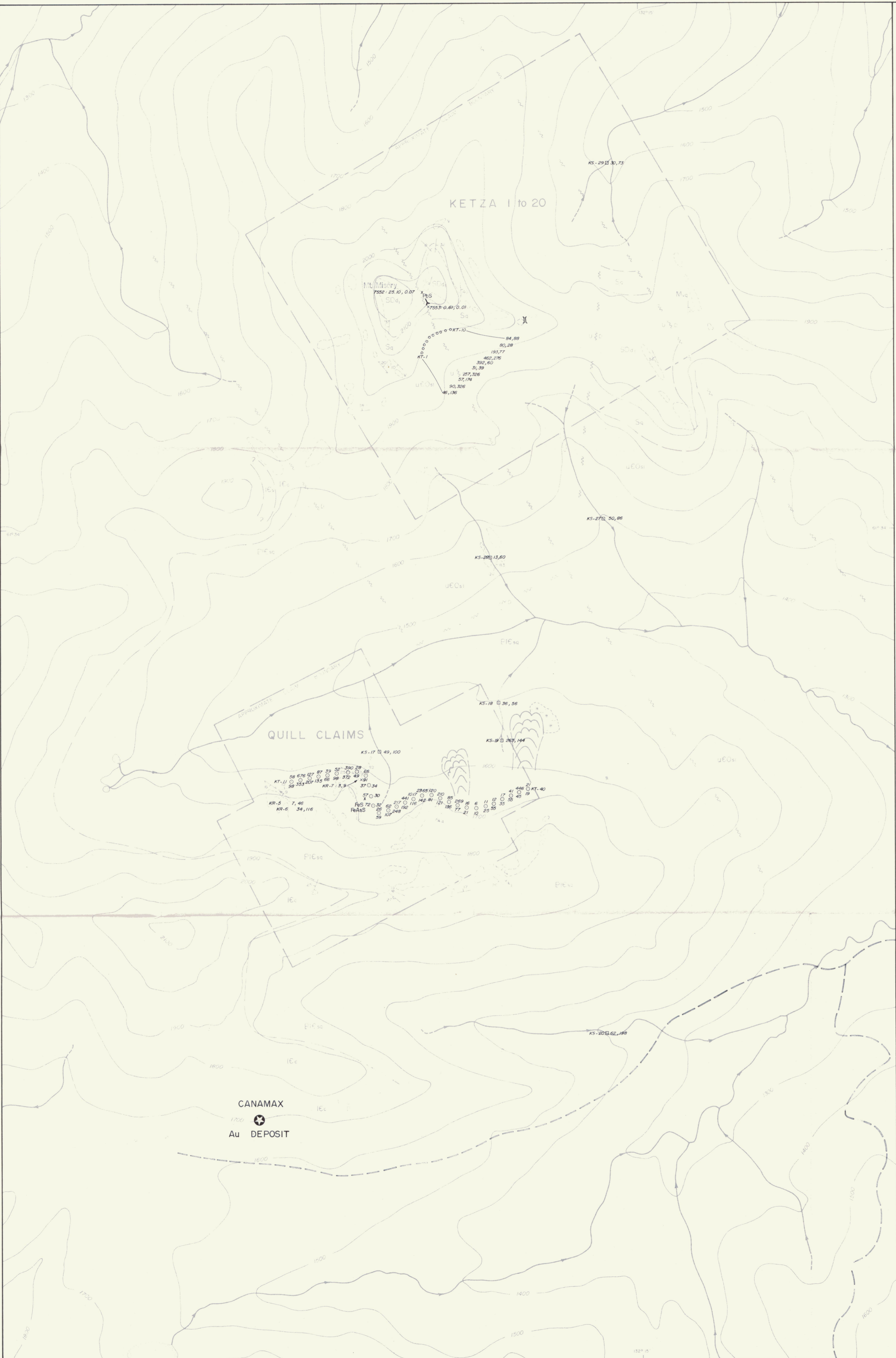
Scale in metres

1 : 10,000



by

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EXPLANATION

Sample Site

- Talus fines, Pb, Zn
- × Rock: KR-5 (geochemical analysis) Pb, Zn
7553 (assay)
- Stream silt, Pb, Zn

Values

Analysis: Pb, Zn in ppm
Assays: Pb, Zn in %

- Background*
 - Possibly anomalous*
 - Anomalous*
- *refer to text for ranges of categories

Note: - Refer to Plate 1 for geology legend.

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QUILLO RESOURCES INC.
HIGH RIVER RESOURCES LTD.
KETZA I-20 & QUILL CLAIMS
Pb, Zn GEOCHEMISTRY

KETZA RIVER AREA 105 F-8,9
WATSON LAKE MINING DIVISION, YUKON

Scale in metres

1 : 10,000



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OCTOBER, 1985

PLATE 4