

MEMORANDUM

841936
Courte-Riley
M-481
27 Sept. 1977

TO E. Dodson.

FROM D. Arscott

SUBJECT QUEEN CHARLOTTE GOLD - COURTE PROP. OUR FILE
M466 - UMEX STAKING YOUR FILE

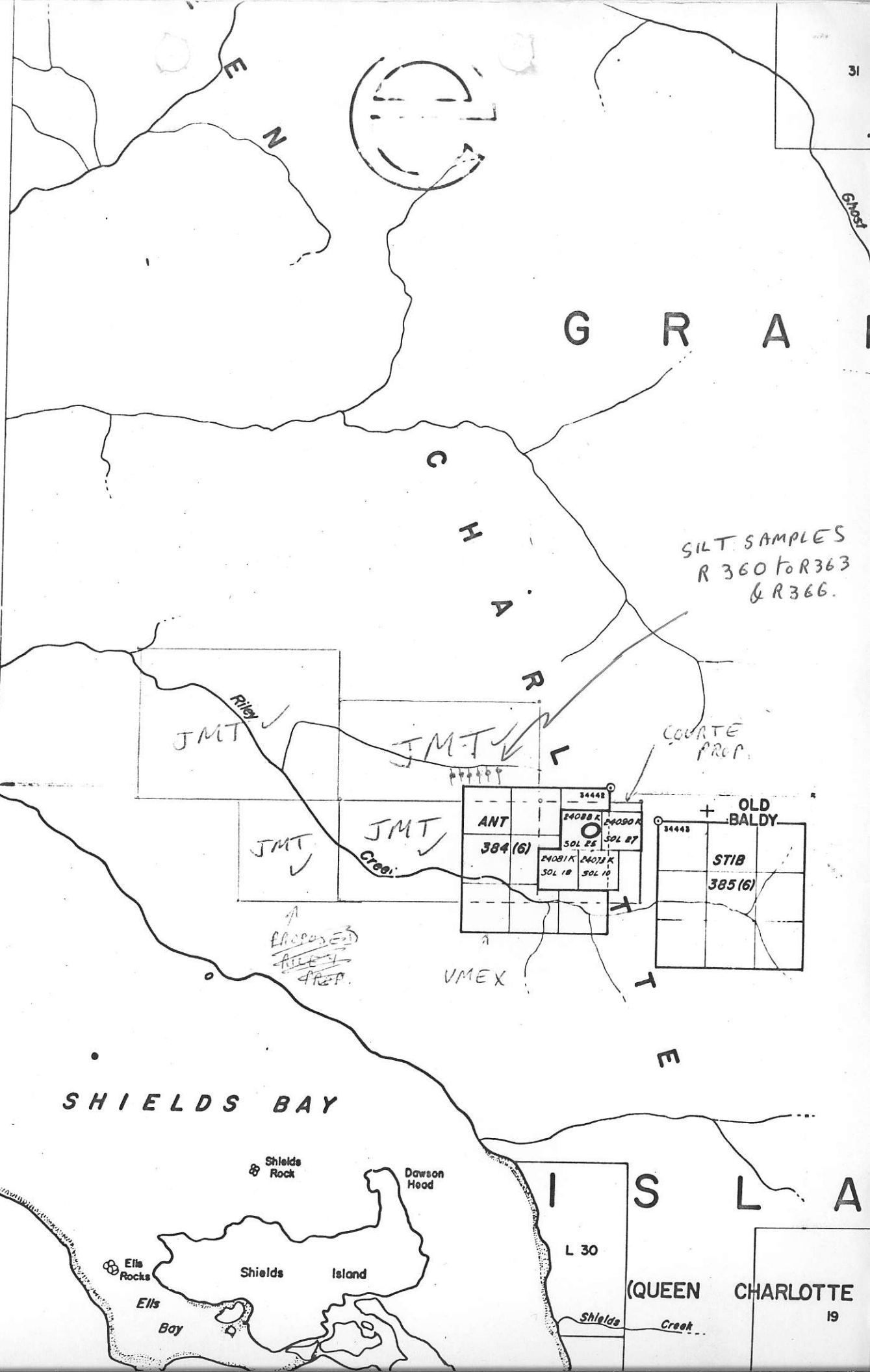
A perusal of the silt sampling, relative to the Umex (ANT) claim, suggests that it is probably outside our area of interest, mineralogically speaking. The analyses of 5 samples draining the N boundary of the ANT were as follows (see sketch attached).

	Au ppb	As, ppm	Hg, ppb
R 360	45	200	not
361	5	230	
362	5	90	available
363	<5	55	
R 366	<5	12	

The threshold for Au, regionally, is 5 to 10 ppb, and for As somewhere between 50 and 100 ppm. The NW corner of the ANT group, as found in the field, is 600' uphill from R360 to 361. Thus the values decrease fairly rapidly to the E.

From the foregoing, I think it is probably safe to ignore Umex's proposal, at least until we know more about the area, and proceed essentially as planned.

D.A.



TO WEST SEE MAP 103F/7E

SILT SAMPLES
R 360 to R363
& R366.

COURTE
PROP.

EXPOSED
PROP.

VMEX

SHIELDS BAY

ISLAND

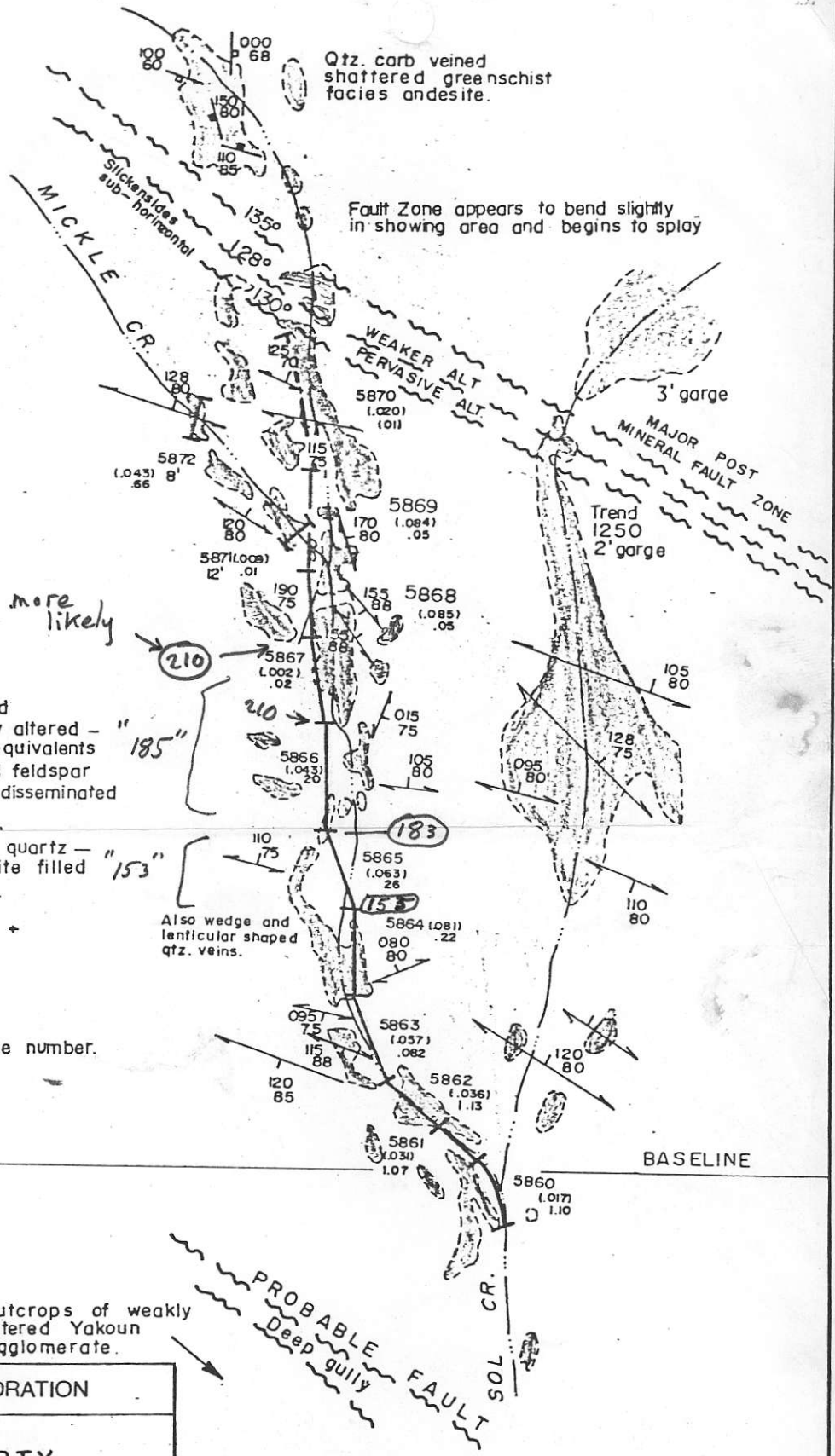
(QUEEN CHARLOTTE 19)



BASELINE

Qtz. carb veined
shattered greenschist
facies andesite.

Fault Zone appears to bend slightly
in showing area and begins to splay



LEGEND



Greenschist Facies
Yakoun Andesitic Volcanics



Light grey Felsite bleached
locally silicified and/or clay altered -
apparently in large part equivalents
of fine grained diorite and feldspar
porphyry dyke - rocks - disseminated
sulphide through.



Strike and Dip of major quartz -
stibnite-pyrite chalcopyrite filled
fractures up 8" in width.



Strike and Dip of Quartz +
Carbonate veinlets



Strike and Dip of post
mineral fractures

5870

Assay interval and sample number.
(.04) Au - oz/ton
.85 Sb - %

more likely

210

210

210

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

110

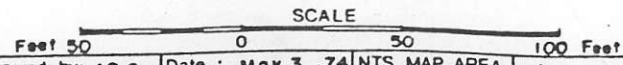
110

QUINTANA MINERALS CORPORATION

COURTE PROPERTY
RENDEL SOUND - QUEEN CHARLOTTE ISLANDS

GEOLOGY
SOL CREEK SHOWINGS

Average 310' Chip Sample
#5860-5870
.04 Au. oz/ton
.40 Sb %



Prepared by: J.S.C.	Date: May 3, 74	NTS MAP AREA	DRAWING No.
Drawn by: A.T.K.	Revised:	103-F / 8 W	

COURTE ASSAYS

Previous Sampling

Au oz	Ag oz	Sb %
.04	.05	.2
.002	.04	.02
.086	.04	.05

~~0.06~~

DA - Aug 77

Au, oz.	Ag oz.	Sb %
.027	.02	.05
<.002	.04	.01
.002	.03	.02
.002	.03	.02
.013	.02	19.7

To: J.M.T. Services

REPORT No A27 - 1090

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: November 22, 1977

191 Rondoval Cres.
North Vancouver, B. C.

CERTIFICATE OF ASSAY

Samples submitted: November 15, 1977
Results completed: November 22, 1977

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER								TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
77R943	0.050										

Courtesy Showing:
 EQUIP # 5865 (130-155)
 Min EN -1974 - .063 oz/ton.
 Bondarc -1974 - .067 oz/ton

cc: J. S. Christie
 K. Livingstone

COURTE SAMPLING

6 Aug 77

DA-C-1	155-183'	Sol Creek	Very crude chip
DA-C-2	183-210'	" "	" " "
DA-C-3	210-240'	" "	" " "
DA-C-4	Over 20' from Sol CK. Mickle CK junction N. along Sol CK.		" " "
DA-C-5	Float in Sol CK, about 200' below Mickle CK. junction.		Selected piece of 2" stibnite vein.

#1 to #4 are all soft white, brown weathering rock of possible intrusive ^{origin} weathering. Alteration is intense as a whole, and carbonate variable. Trace pyrite is common.
#1 - weak, variable CO₃
#2 - low, moderate CO₃
#3 - moderate-high CO₃
#4 - high CO₃.

#5 is 80% stibnite, with quartz.

D.A.

To: Chevron Standard Ltd.

REPORT No A27 - 553

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: August 17, 1977

901 - 355 Burrard Street
Vancouver, B.C.
V6C 2G8

CERTIFICATE OF ASSAY


Samples submitted: August 8, 1977
Results completed: August 17, 1977

PROJECT: M 466

I hereby certify that the following are the results of assays made by us upon the herein described ore samples.

MARKED	GOLD		SILVER	Sb							TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent		
DA-C 1	0.027		0.02	0.05							
2	<0.002		0.04	0.01							
3	0.002		0.03	0.02							
4	0.002		0.03	0.02							
5	0.013		0.02	19.70							

RECEIVED
AUG 19 1977
Minerals Staff
CHEVRON STANDARD LIMITED
VANCOUVER OFFICE


Registered Assayer, Province of British Columbia

Courte

3 Aug 77

C-1 Pyroclastic ~ 100' downstream
on Sol Ck from lower flt.

Argillaceous zone below is
quite pervasively hornfelsic.
occ. CO_3 (ung?)

Alt'd zone, distinctive color
& mod-str. limy

C-2 Stib. vn. float in ck. 100'
above lowest lge flt.

C-3 Float 200' up. Pyrocl.
po. fairly common in this
alt'd zone.

C-4 Above upper flt. CO_3 und and?

Jim Christie

Richard

General Delivery, Q.C.C.

Kunga

argillaceous

slaggy

mass.

PROPERTY EXAMINATION
NOTES

8 Aug 77

COURTE SHOWING
(QUEEN CHARLOTTE GOLD - M466)

Location: $53^{\circ}22'N$ $132^{\circ}26'W$ Riley Creek, Shields Bay, Rennel Sound area, 17 miles NWerly from Queen Charlotte City

Access: Excellent. Logging operation currently in progress 1000' from showings.

Geology: The principal showings ^{occupy} ~~comprise~~ an area of 300 ft. by in excess of 1100 ft, and consist of a ~~highly altered~~ distinctive brown-weathering rock that may well be intrusive (diorite) in origin. The alteration is sericitic to talcose in appearance with low to very high carbonate content. The zone is cut by occasional stibnite-quartz veins up to 3 in. across, and carries low gold values throughout. In Sol creek, which provides the only complete cross section of this zone, An average is 0.04 oz/ton and Sb 0.4% over 310 feet. The maximum Au assay is 0.08 oz/ton, implying a very even distribution of values. Elsewhere in this zone scattered pits ^{provide} ~~provide~~ ~~similar values~~ ~~along strike~~ assays of much the same tenor.

The alteration zone ^{is} ~~is~~ ~~approach to~~ fault bounded, and in contact with volcanics (Yakoun ^{Fm.} Jurassic) on both sides. It is open to the NW.

A similar but larger and less well mineralized zone, ~~is present~~ is present 300 feet SW of the first.

Detailed geochemistry from these ^{zones} ~~zones~~ generally matches the ^{rock} assay pattern. Although there is a higher geochemical response from the vicinity of the creeks, the anomalies are broad and ~~are believed~~ I suspect that they ~~probably~~ reflect overburden depth rather than local shearing in the creeks.

At the present time Jim Christie and Gordon Richards are exploring the possibility of an easterly off-set of the main zone to a point 2 miles to the W. This is based partly

OVER →

on their regional geochemistry, and partly on the re occurrence of ~~very similar~~ ~~Yakoun~~ ~~volcanics~~ of a high-carbonate altered andesite which is adjacent to the main ~~staging~~ zone.

Certainly ~~the~~ alteration zones are not restricted to the immediate vicinity of Sol Creek. Highly shattered andesite with carbonate alteration was observed in two two places along the Riley Creek access road.

Economic Considerations

1. The average tenor of the exposed mineralization is respectable but not high. The lack of erratic ^{Au} highs does not add or detract from the ^{apparent} potential of the property, but would reduce exploration drilling costs to some extent. I have no idea what effect surface leaching would play in this environment. If the Au were fracture controlled, it could ^{perhaps} be significant.

2. With respect to geometry, one of the bounding faults of the main zone is near vertical. The orientation of the other is unknown, but its parallelism to the first, and the fact that it ^{too} is a possible ^{diorite} dyke margin, suggests that it ~~also~~ is steep also.

3. A crude tonnage ~~calculation~~ ^{estimation} provides ~~for an open pit containing~~ an open-pit potential on the main zone of 2.7 million tons of 0.04 oz/ton Au, and 0.4% sb.

4. The effects of the high Sb content are not ascertainable at this stage.

~~Other~~

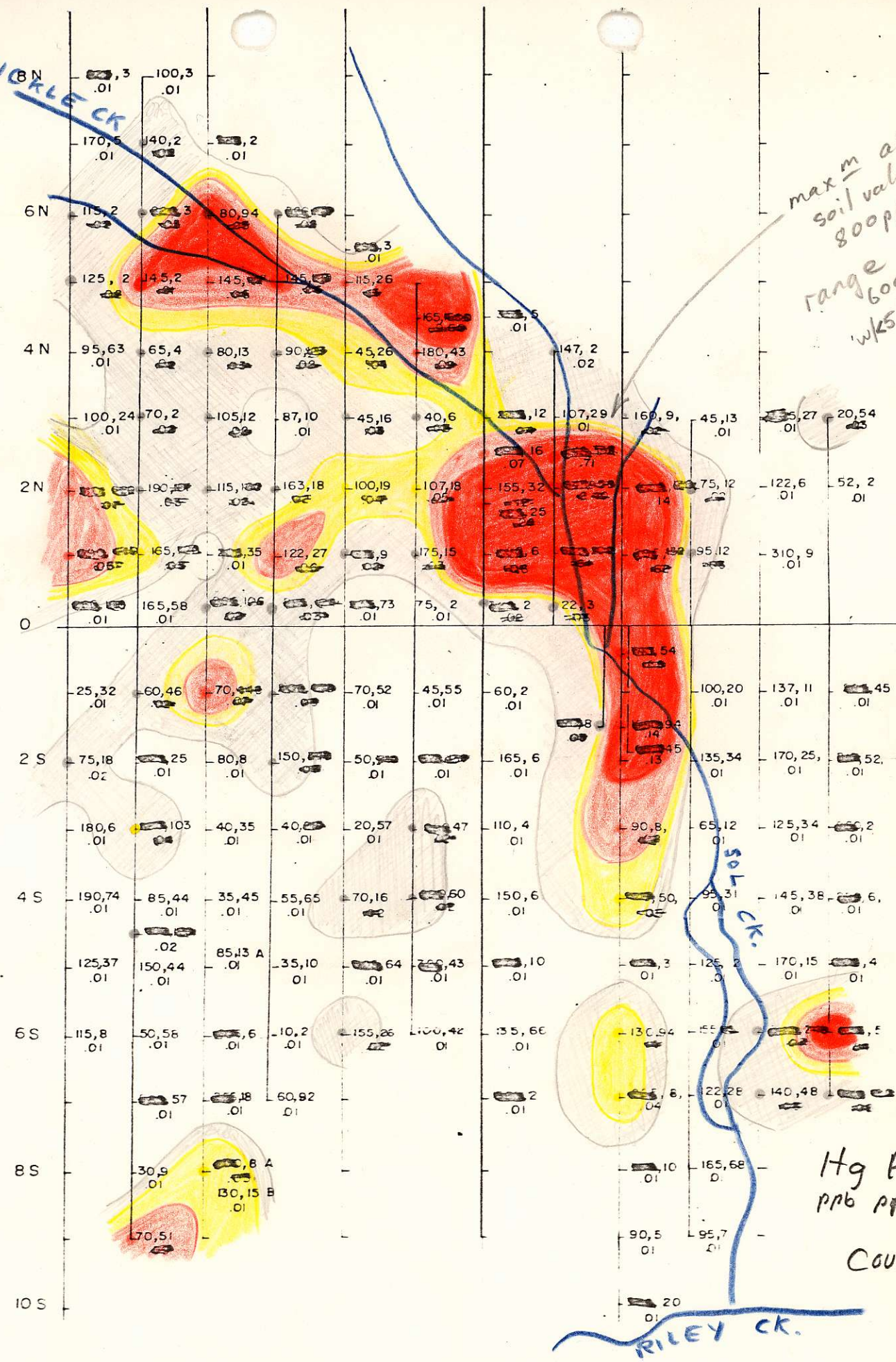
5. Other alteration zones, and ^{scattered} regional geochemical highs indicate that this is not an isolated example of this type of mineralization.

6. The Specogra deposit -

MIDDLE CK

max m assoc'd
soil value
800ppb
range
600 to 700
wks' soil

BASELINE



Hg As Au
ppb ppm ppm

COURT E

RILEY CK.

8N	10,27,33	4,8,14																		
	12,23,56	10,28,28	14,26,39																	
6N	4,6,15	12,38,52	19,39	8,22,28	8,28,44															
	8,13,20	28,6,14	10,25	38,54	44,29,74															
4N	10,15,29	12,13,20	2,7,12	4,17,22	4,11															
	6,8,16	16,8,22	20,18,58	4,5,7	20,17,33	40,5,9	8,33,53													
2N	16,33,74	16,21,33	24,17,27	14,23,35	18,24,28	11,29	12,20,30	16,48												
	28,44	8,13,56	16,27,58	20,24,54	22,21,33	16,18,47	26,60	42,32,72	24,47	12,4,36	20,26,54	20,33,73								

BASE LINE 0 16,29,97 12,16,64 18,40,53 24,17,27 20,17,33 16,10,29 40,19,50 120,20,30 20, 24,27,35 16,41,50 16,37,53

	12,41,29	16,46	20,29	28,43	16,23	16,32	4,12,66													
2S	12,48,59	16,48	8,42	24,23,51	28,26	16,39,54	22,34	46												
	10,45	18,21,38	14,45	12,29,30	16,24,65	16,38,51	14,33	46												
4S	20,42,40	32,26,23	16,34	16,45	10,46	14,39,47	14,35	22												
	25,31,52	44,20,55	12,26,24	6,10,15	32,24,53	12,16,26	16,32	46												
6S	12,22,32	20,15,44	24,45,73	4,9,17	24,48,55	20,5,26	18,21,60	46												
		28,20,21	18,30,57	28,40,72			2,5,23	46												
8S		10,6	30,34,62	24,12,27				46												
		35,50						46												

COURTE
 Sb)
 Cu) PPa
 Zn)

8 N	170,5 .01	100,3 .01																		
6 N	115,2 .01	140,2 .01	80,94 .01																	
4 N	95,63 .01	65,4 .01	80,13 .01	90,13 .01	45,26 .01	180,43 .01														
2 N	100,24 .01	70,2 .01	105,12 .01	87,10 .01	45,16 .01	40,6 .01														
BASELINE 0	165,58 .01	165,58 .01	115,100 .01	163,18 .01	100,19 .01	107,18 .01	155,32 .01	155,32 .01	107,29 .01	160,9 .01	45,13 .01	122,6 .01	52,2 .01							
2 S	25,32 .01	60,46 .01	70,44 .01	70,52 .01	45,55 .01	60,2 .01														
4 S	190,74 .01	85,44 .01	35,45 .01	55,65 .01	70,16 .01	150,6 .01														
6 S	115,8 .01	50,56 .01	10,2 .01	155,26 .01	100,42 .01	135,66 .01														
8 S	30,9 .01	130,15 B .01																		
10 S																				

Hg Pb Au
ppb ppm ppm
COURT E

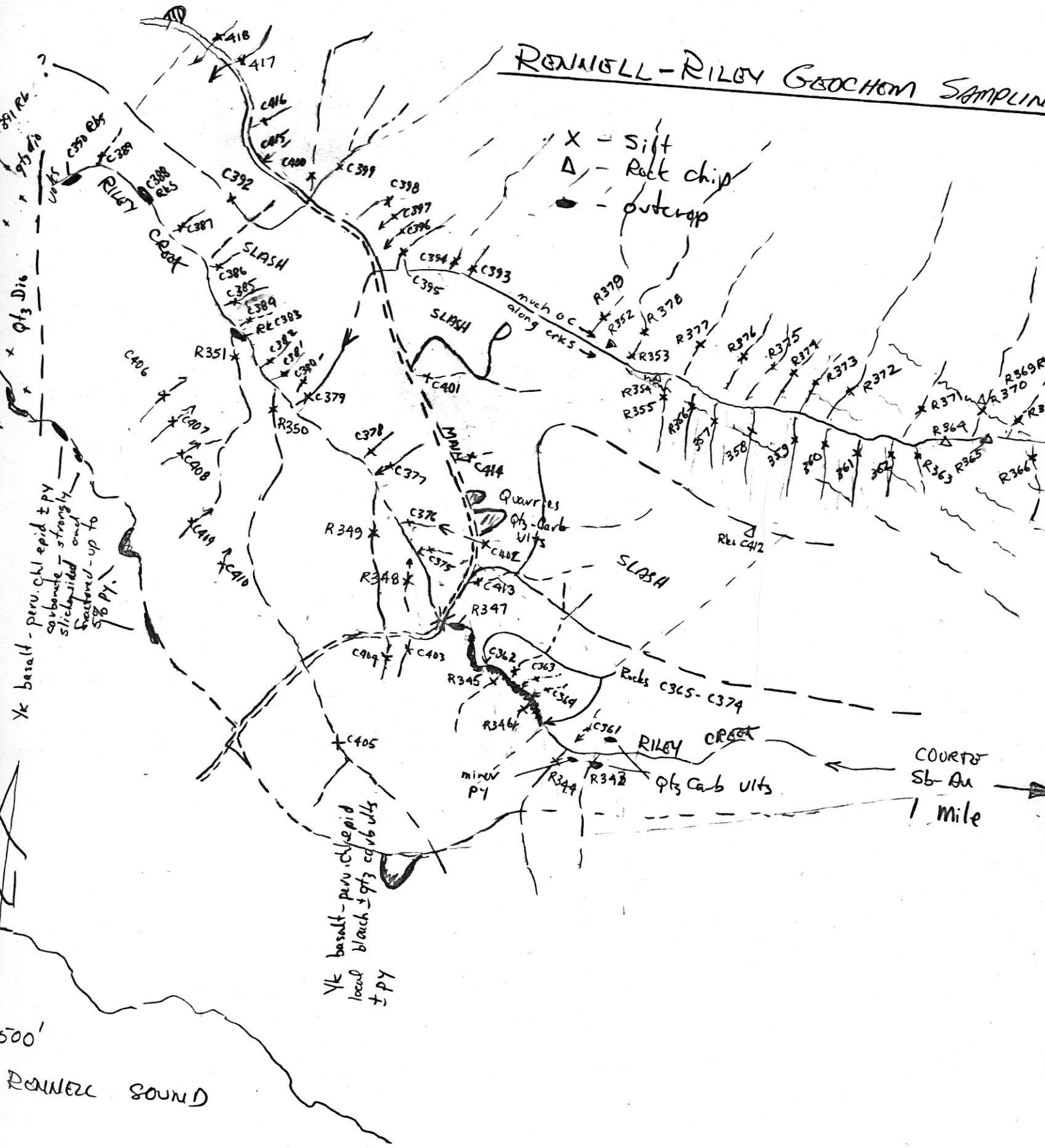
8 N	[redacted],3 .01	100,3 .01																						
	170,5 .01	140,2 [redacted]	[redacted],2 .01																					
6 N	115,2 [redacted]	[redacted],3 [redacted]	80,94 [redacted]	[redacted]	[redacted],3 .01																			
	125,2 [redacted]	145,2 [redacted]	145, [redacted] [redacted]	145, [redacted] [redacted]	115,26 [redacted]																			
4 N	95,63 .01	65,4 [redacted]	80,13 [redacted]	90, [redacted] [redacted]	45,26 [redacted]																			
	100,24 .01	70,2 [redacted]	105,12 [redacted]	87,10 .01	45,16 [redacted]																			
2 N	[redacted] [redacted]	190, [redacted] [redacted]	115, [redacted] [redacted]	163,18 [redacted]	100,19 [redacted]																			
	[redacted] [redacted]	165, [redacted] [redacted]	[redacted],35 .01	122,27 [redacted]	[redacted],9 [redacted]																			
BASE LINE	[redacted] .01	165,58 .01	[redacted],126 [redacted]	[redacted], [redacted] [redacted]	[redacted],73 .01																			
	25,32 .01	60,46 [redacted]	70, [redacted] [redacted]	[redacted] [redacted]	70,52 .01																			
2 S	75,18 .02	[redacted],25 .01	80,8 .01	150, [redacted] [redacted]	50, [redacted] [redacted]																			
	180,6 .01	[redacted],103 [redacted]	40,35 .01	40, [redacted] [redacted]	20,57 .01																			
4 S	190,74 .01	85,44 .01	35,45 .01	55,65 .01	70,16 [redacted]																			
	125,37 .01	[redacted] .02	85,13 A .01	35,10 .01	[redacted],64 .01																			
6 S	115,8 .01	50,58 .01	[redacted],6 .01	10,2 .01	155,26 [redacted]																			
		[redacted],57 .01	[redacted],18 .01	60,92 .01	[redacted] [redacted]																			
8 S		30,9 .01	[redacted],8 A [redacted]	130,15 B .01																				
		170,51 [redacted]																						
10 S																								

Hg As Au
ppb ppm ppm

COURT E

RENNELL-RILEY GEOCHEM SAMPLING

- X - silt
- Δ - Rock chip
- - outcrop



* basalt - perv. chl epid + py carbonate strongly silicified and fractured - up to 500 py.

* basalt - perv. chl epid local black + qtz carb vlt + py

much o.c. along crks

Quartzes
qtz-carb vlt

SLASH

Rocks C365-C374

RILEY CREEK

qtz carb vlt

COURT
Sb-Au
1 mile

500'
RENNELL SOUND

