MAY 19 1977

MEMO: RE: D.C. SYNDICATE DORSEY LAKE PROGRAM

CAMP BRAVO

(1) THE INITIAL TARGET WILL BE AN AREA OF PORPHYRITIC MONZONITE AT ABOUT 131°35'W, 60°15'N. THE AIR MAG MAP SHOWS A LOCAL LOW IN THE AREA AS WELL AS A RATHER ELONGATE LOW TO THE NORTH WEST. (105B/5)

THE EXTENT OF THE VARIOUS INTRUSIVE PHASES ARE TO BE MAPPED ON 1"-½ MILE AIR PHOTO SCALE. SMALL TRIBUTARY STREAMS NORTH OF THE MAIN ANOMALOUS STREAM SHOULD BE SAMPLED AT ABOUT 1500' INTERVALS. STREAMS EAST OF THE MAIN ANOMALOUS STREAM SHOULD BE SAMPLED.

ALL OCCURRENCES OF CU, MO MINERALIZATION PARTICULARLY SHOULD BE NOTED. OCCURRENCES OF ZN, PB, W SHOULD BE LOOKED FOR. CHARACTER SPECIMENS ARE TO BE COLLECTED AND IF ANY SUBSTANTIAL MINERALIZATION IS FOUND A SAMPLE OR SERIES OF SAMPLES REPRESENTATIVE OF THE MINERALIZATION SHOULD BE TAKEN FOR ASSAY.

(2) THE SECOND AIR MAG LOW TO THE NORTHWEST WILL BE THE SECOND TARGET. VARIETIES OF INTRUSIVE ARE TO BE MAPPED AND THE STREAMS SILT SAMPLED.

DORSEY LAKE PROGRAM

LIST OF MAPS AND PUBLICATIONS

1 TUNGSTEN GEOCHEM MAP 1"-½ MILE

2 SILT SAMPLE RESULTS MUNSON LAKE AREA 1"-½ MILE

3 SILT SAMPLE RESULTS DORSEY LAKE AREA 1"-½ MILE

4 AEROMAGNETIC MAPS 105B/ 3, 4, 5, 6.

5 GEOLOGY MAP WOLF LAKE SHEET 105B 1"-4 MILES

6 TOPOGRAPHIC MAP WOLF LAKE 1"- 4 MILES

7 AIR PHOTOS 1"-½ MILE A 11536 411, 413
A 11373 419, 421

8 PAMPHLET OF FIELD PROCEDURES

9 COMPILATION OF PAPERS ON PORPHYRY COPPER DEPOSITS

10 BULLETIN 56 GUICHON BATHOLITH

11 ECONOMIC GEOLOGY VOL 71, #4 RE GUICHON BATHOLITH

6/7/77

Seagull Creek, 1:50,000
105 B/3 E Half.

1. Initial pt Muskeg.
Float composed of gr. with pink + white Fe stained K-flds. (?) and white to gray qtzite in rounded pebbles to boulders.

2. 130° / 20° Gray qtz. sericite sch. Some white qtz in veins & stringers.

Gray qtzite, qtz sch., + qtz rich metated. in float pebbles to boulders. This in Q surrounding O/C at 2.

3 25/52 Gray qtzite with interbedded tan qtz. sericite sch. Also white qtz veins.

4.70° 300 Gray sericite SCh with py.

This was first traverse with Bruce. Aerial photos were worthless.

6/8/77

ARIAL PHOTO A11370-347
Seagull Creek, 1:50,000
105 B/3 E Half.

5. Initial pt. 78°/310°
15' thick layer of gray massive, well consolidated siltstone in larger sequence of interbedded chert (white to light gray) and dark gray siltstone. Thickness of most layers is inches or fractions of inches. This thick layer contains thin (<1") stringers of chert & epidote (?) / Pyrr (small amounts) is disseminated in the siltstone & occurs as 3/8" blebs or lenses surrounded by epidote (?). Limonite on joints.

6. Massive gray L.S.

7. Tan med. grained calcareous S.S. Calcite in stringers & cavities soft, poorly consolidated

8. Massive gray L. S. (sandy)

9. Fine to med grained qtz. monzonite with biot. L.S. at contact has red oxidized appearance but no strong alteration.

10. Monzonite becomes med. grained away from contacts & is white-gray in color. No apparent mineralization. At SE contact grain size decreases. At SE contact there is approx 50' of marble or very xtalline L.S.. The siltstone & chert is very similar to skyte... probably contact phenomenon. 300/500 ← siltstone + chert. Blocks may have slumped.

Better attitude for siltstone + chert / qtzite

~~284°~~ 70°

6/9/77

ARIAL PHOTO 11412-143

11. 047° 66° Med. grained white to pale gray qtz. monzonite with biot.

12. Same monzonite but darker color & slightly more mafic appearance.

13. Soil sample midway between hill top & stream 77 DCW 101

14. Massive, gray (dark), fine grained L.S.

15. Massive, gray green chloritic volcanic rock with qtz, calcite, py, & a trace of magnetite. Forms 60' bluff on SE side of Porcupine River.

6/10/77

Bar #27 Claim, 105 B/3

Bor 70-6 405 ~ 428.5
Fine to med grained
glyte with calcite
grains & stringers
xtaline calcite in vuggy
areas. Py also present.
Tiny spots of blue
flourescence that flake off.

Bor 70-6 387 ~ 405
Same. Some silver
gray sch layers < 1" thick

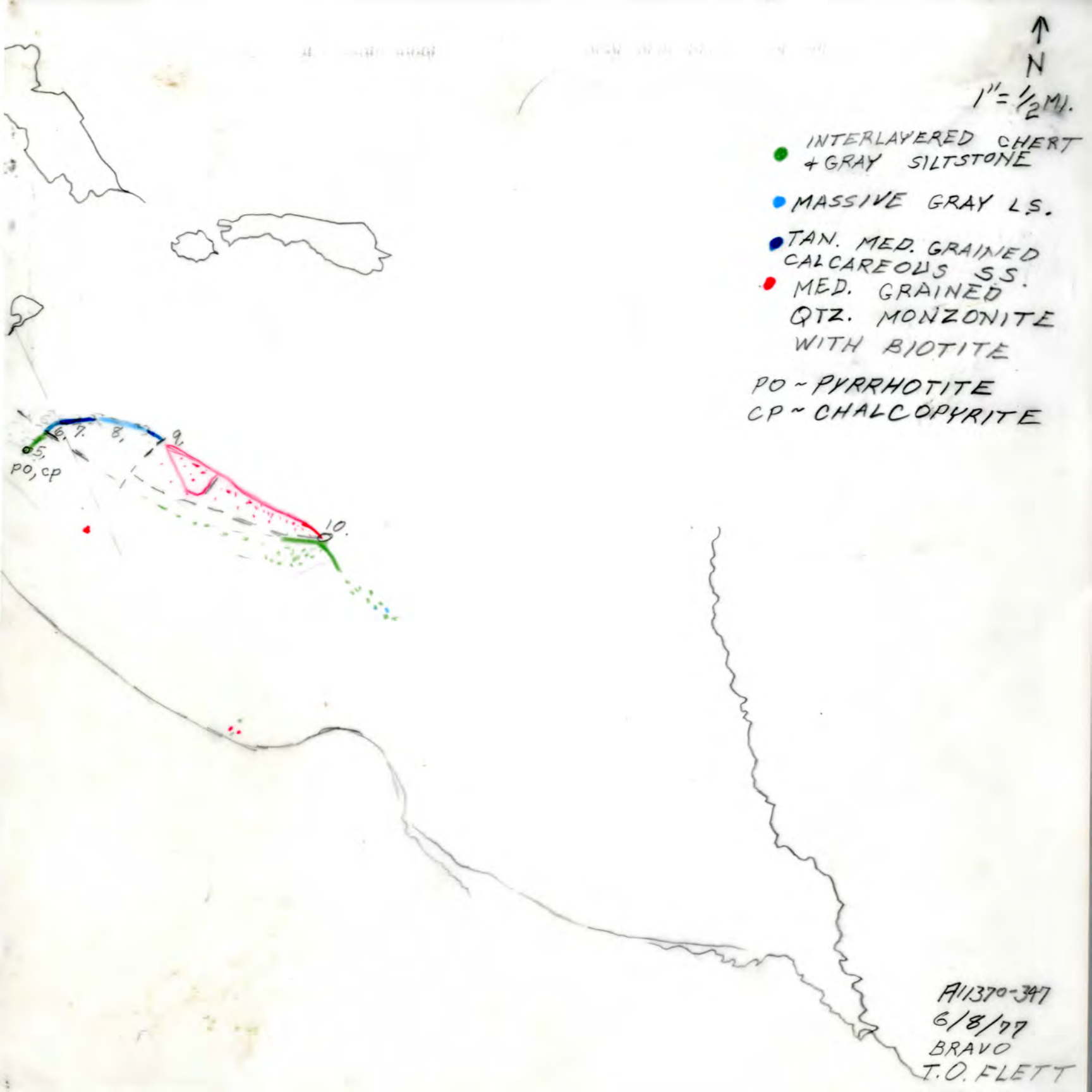
Bor 70-6 487 ~ 503 END

Same
Bor 70-6 449 ~ 467
" " 467 ~ 47?
" " 365 ~ 387

Rock in trench is contorted qtz sch with qtz stringers and local patches of serpentine & calcite. Calcite flouresces slightly but nothing else seems to. O/C is rust stained, much of it from pyrr. Joints are also discolored by gossan

137°
4
73

SILT SAMPLE 77 DCB 101 from creek running through clear area where drill core was stored.


N
1" = ½ MI.
INTERLAYERED CHERT & GRAY SILTSTONE
MASSIVE GRAY L.S.
TAN. MED. GRAINED CALCAREOUS S.S.
MED. GRAINED QTZ. MONZONITE WITH BIOTITE
PO ~ PYRRHOTITE
CP ~ CHALCOPYRITE
5.
PO, CP
6.
7.
8.
9.
10.
A11370-347
6/8/77
BRAVO
T.O. FLETT

N

2" = 1 MI.

- MED. GRAINE, LIGHT GRAY QTZ. MONZONITE WITH BIOTITE
- MASSIVE, DARK GRAY, FINE GRAINED LIMESTONE
- GRAY GREEN CHLORITIC VOLCANICS

PY - PYRITE

BRAVO
6/9/77
T.O. FLETT
A-11412-143

BRAVO 6/13/77

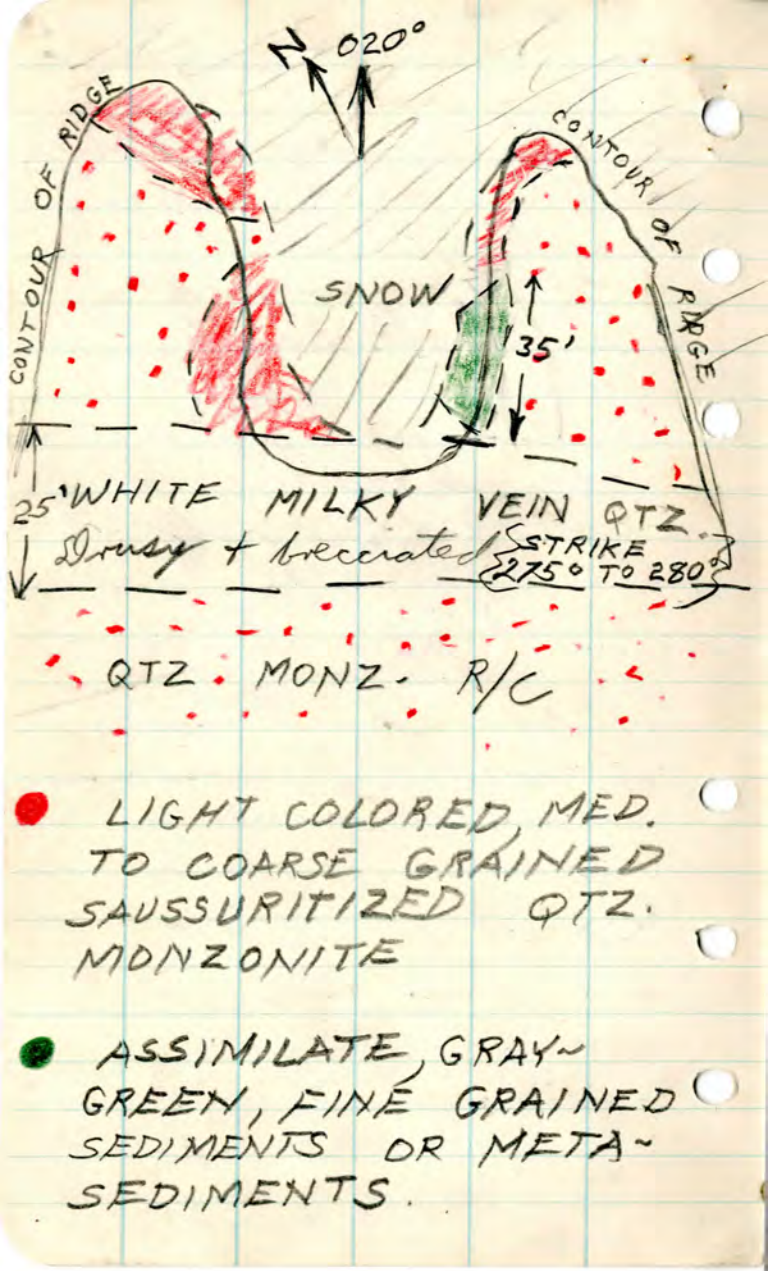
Completed camp set-up.
SOIL SAMPLE 77DCW102 from latrine, BRAVO #1.
AIR PHOTO A11536-411

1. Impure qtzite with qtz. stringers & py. Appears metamorphosed, almost igneous xtalline as you approach the bluff to the NNW toward the dam stock.

2. Cream colored, coarse grained qtz. monzonite. Some sausserization. Qtz. stringers & veins present.

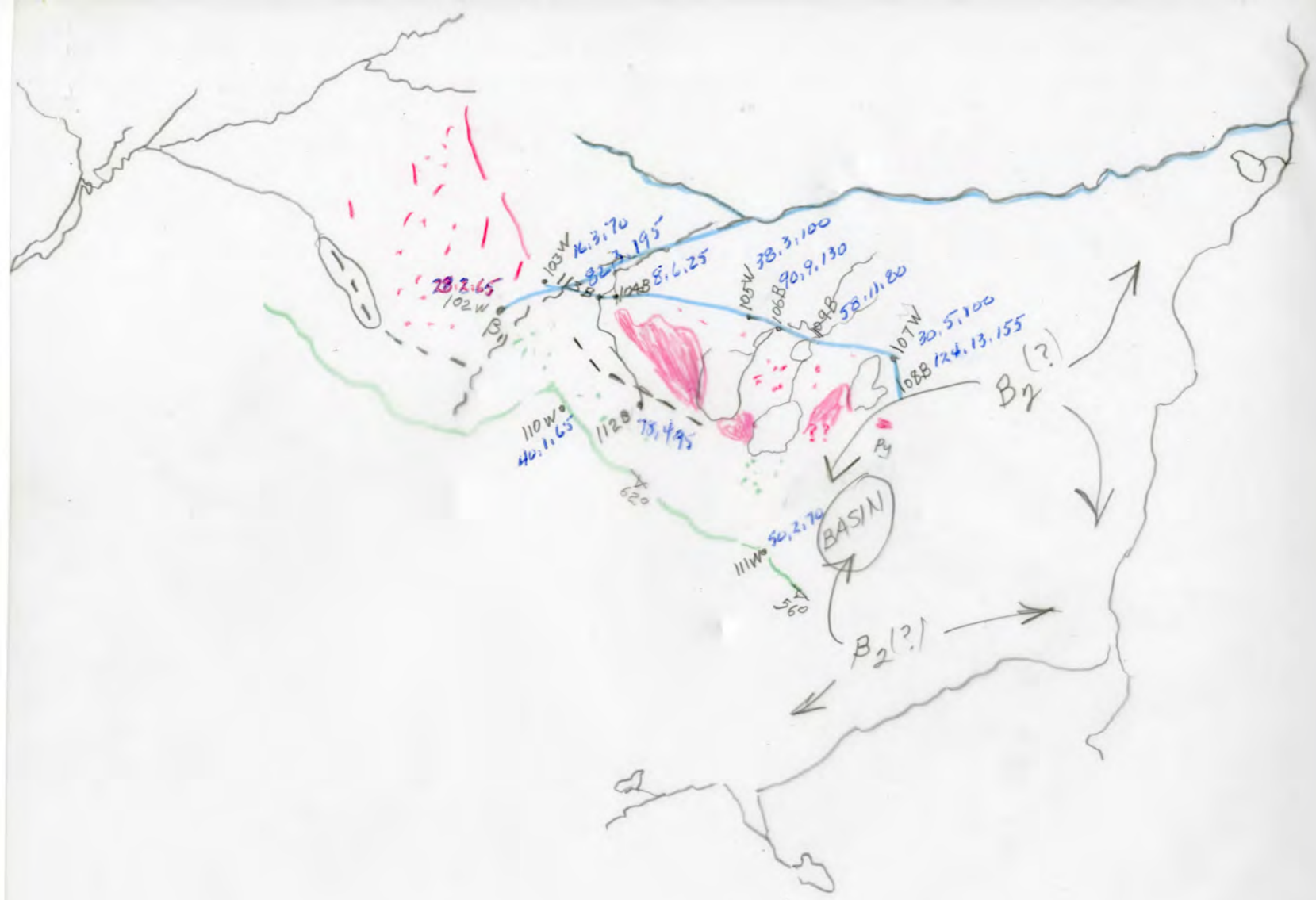
3. 107° 81° / 103° 89° Open joint system in qtz. monzonite.

4. Milky white qtz. vein approx 23' wide strikes 275° to 280°. Drusy & Brecciated (???).



- LIGHT COLORED, MED. TO COARSE GRAINED SAUSSURITIZED QTZ. MONZONITE

- ASSIMILATE, GRAY-GREEN, FINE GRAINED SEDIMENTS OR META-SEDIMENTS.



1" = ½ MI.

A 11536 ~ 411
BRAVO #1
6/13/77 ~ 6/16/77
TO. FLETT


102W
B1
103W
113B
104B
105W
106B
107W
109B
108B
110W
112W
111W
118W
117B
121B
119B
116W
115W
B2
114W
122W
120W
133B
132W
131B
134W
127W
128W
129W
125W
124W
126B
130B
123W
N
1" = ½ MI.
Cu Mo W
A 11536 ~ 411
BRAVO #1 & #2
GEOCHEMISTRY
T.O. FLETT
6/13/77 TO 6/30/77


4. 25' qtz. vein
BRIAN
BRIAN
BRIAN ATKINSON
TALUS
CONTACT MET.?
GOSSAN
PROBABLY NOT
1" = ½ MI.
N
A 11536 ~ 411
BRAVO #1 & #2.
6/13/77 ~ 6/30/77
T.O. FLETT
FIELD SHEET

WEEKLY CAMP REPORT

PROJECT D.C. CAMP NAME & NUMBER BRAVO #1

NTS SHEET WOLF LAKE 105 B DATES 6/12/77 ~ 6/16/77

AIR PHOTOS A 11536 ~ 411, A 11373 ~ 421 LAT & LONG 60°16'N 131°36'W

SILT SAMPLE SERIES B~6 TO B~30 BRIAN ATKINSON B~104, B~106, B~108, B~109, B~112, B~113 T.O.F.

SOIL SAMPLE SERIES W~11 TO W~13 BRIAN ATKINSON W~102 + W~103, W105, W~107, W~110, & W~111 T.O.F.

ROCK SPECIMEN NUMBERS _____

I have made a quick & dirty tracing of my map sheet. My notes & references to the notes on the map are not included. Sample locations are. I am sending: 1. my tracing
2. all of Brian's overlays
3. all sample sheets

FOR My MAP:
- metasediments largely qtz schist, quartzite, hornfels (Leds mapped largely along ridge.
- intrusive med. to coarse grained qtz. monzonite

~~~ sample line both silt & soil

— — — — contacts

~ ~ ~ ~ fault (geometry)

(OVER) (OVER)
~~~

Py occurs in the sediments reasonably frequently. It also occurs in the monzonite but you have to look for it. I have not observed $CuFeS_2$ or MoS_2 or any W mineralization — but I have greater faith in the geochem. for this than my lens & luck. At the E end of our work area, between silt sample 108B and the green ridge line where I have foliation striking SE & dipping 56° SW there is a large, high basin. I have mapped mony. on the N by the lake & the extension of the ridge according to your data is also mony. It is in these areas that your data indicates mineralization in the float. I will locate B_2 somewhere between one of these points and the nearest anomalous river. My objective is to get into that basin & yet provide Brian with access to the tributaries above the anomalous rivers. I have bagged a grab sample of rusty mony. It might be interesting to see if an analysis would pick up any Cu, Mo, or W.

Tom

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: T.O. FLETT
AREA: BRAVO #1
FIELD MAP: A11536-411
DATE: 6/12/77 TO 6/16/77

RESULTS PLOTTED BY:
POSTING MAP:
DATE:
AIR PHOTO A11536-411

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
															Field Tests			Lab. Tests							
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
77DCW102	24" DEEP "B" HORIZ		X			LOW		6/13/77		LIGHT		BROWN													
77DCW103	3" DEEP TALUS + SOIL		X	X		LOW		6/14/77		LIGHT		BROWN		X											
77DCB104			X	X		0		X	50'	<1"	SLOW		INTERMITTANT												
77DCW105	3" DEEP LIGHT BROWN		X			LOW						6/14/77													
77DCB106			X	X		MED		X	50'	6"-1'	MED.	"													
77DCW107	3" DEEP WET LIGHT BROWN		X	X		LOW						"													
77DCB108				X		MED.	X	X	2'	1"-8"	SLOW	"													
77DCB109				X		MED. TO HIGH	EDGE OF POND			6"	SLOW	6/14/77													
77DCB113	BRAINS CONTACT BETWEEN MONZ & MET.-SED.			X	X	LOW		X	1'-5'	3"-6"	MED	6/16/77													
77DCB112	ON CONTACT ALPINE MEADOW			X		MED	X	X	1'-2'	6"	MED	6/16/77													

Some soils on this sheet, I have the form straight now.

T.O.F.

CHEMEX LABS LTD.
SOIL SAMPLES

COLLECTOR: T. O FLETT
AREA: BRAVO #1
FIELD MAP: A 11536 ~ 411
DATE: 6/12/77 TO 6/16/77

RESULTS PLOTTED BY:
MAP:
DATE:

ANALYST:
METHOD: H.M:
CU. :
DATE:

SAMPLE NUMBER	SAMPLE LOCATION	NOTES	TOPOGRAPHY					VEGETATION					SOIL DATA						FIELD SCREENED	VALUES				
			VALLEY BOTTOM	SLOPE UP	SLOPE DOWN	HILL TOP	LEVEL GROUND	HEAVILY WOODED	SPARSELY WOODED	BURNT	LOGGED	GRASSLAND	HORIZON SAMPLED	THICKNESS OF HORIZON	HORIZON DEVELOPMENT: GOOD	HORIZON DEVELOPMENT: POOR	PARENT MATERIAL: DRIFT	PARENT MATERIAL: BEDROCK		Mo	Cu	Pb	Zn	
77DCW110	(A 11536 ~ 411	Lodd between peaks				X		Thin mostly grass + some					B+C	<1'		X		X						
77DCW111	(A 11536 ~ 411	Sample from animal burrow											B+C	?		X		X						

CHEMEX LABS LTD.
SOIL SAMPLES

COLLECTOR: BRIAN ATKINSON
AREA: BRAVO #1 1977
FIELD MAP: A11373-421
DATE: JUNE 14th 1977

RESULTS PLOTTED BY:
MAP:
DATE:

ANALYST:
METHOD: H.M:
CU.:
DATE:

SAMPLE NUMBER	SAMPLE LOCATION	NOTES	TOPOGRAPHY					VEGETATION					SOIL DATA						FIELD SCREENED	VALUES				
			VALLEY BOTTOM	SLOPE UP	SLOPE DOWN	HILL TOP	LEVEL GROUND	HEAVILY WOODED	SPARSELY WOODED	BURNT	LOGGED	GRASSLAND	HORIZON SAMPLED	THICKNESS OF HORIZON	HORIZON DEVELOPMENT		PARENT MATERIAL			Mo	Cu	Pb	Zn	
															GOOD	POOR	DRIFT	BEDROCK						
770C	AIR-PHOTO																							
W-11	A11373-421			X				Alpine-sparse					B	6"	X			X						
W-12	" "		X						X				B	6"	X			X						
W-13	" "		X						X				B	36"	X		X							

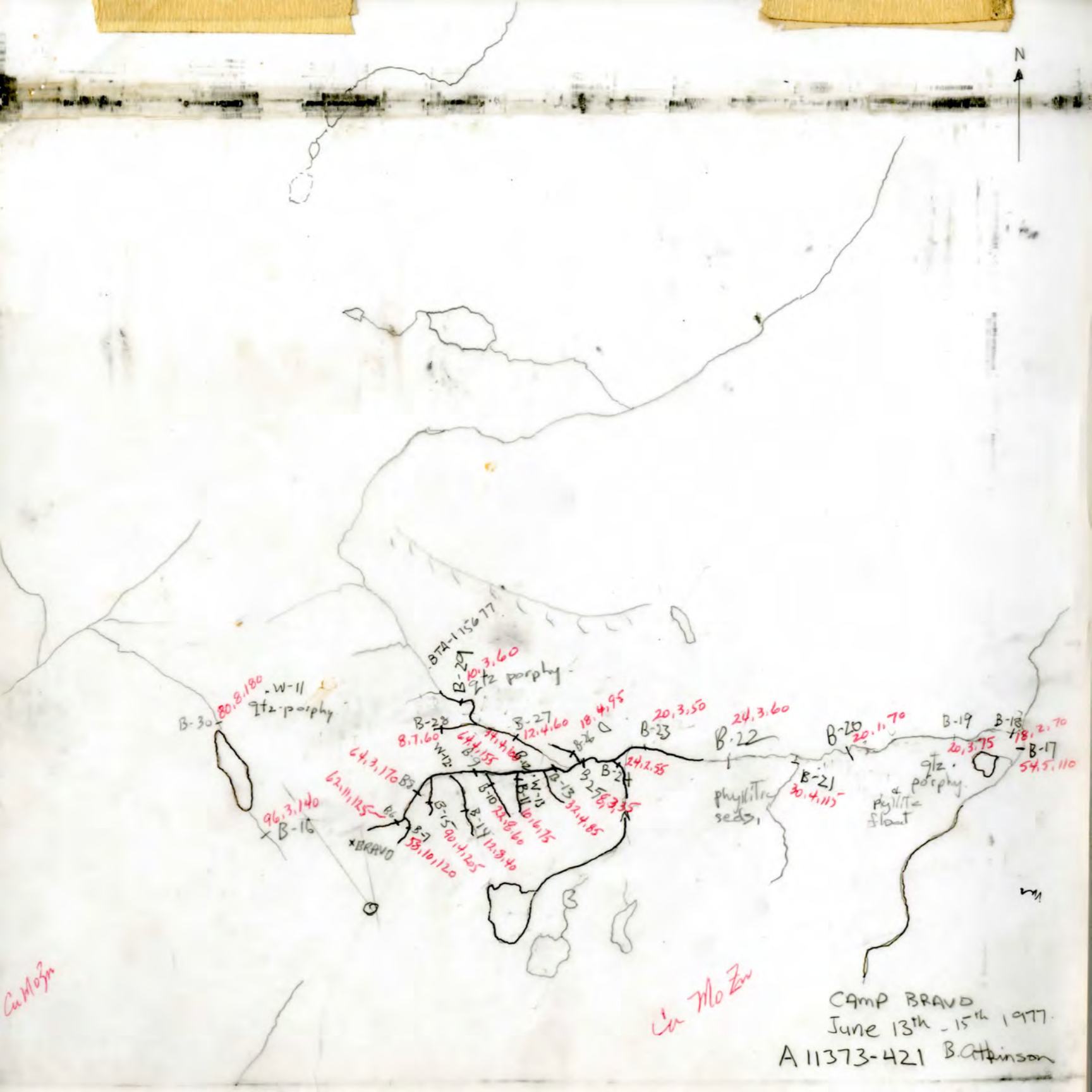
CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

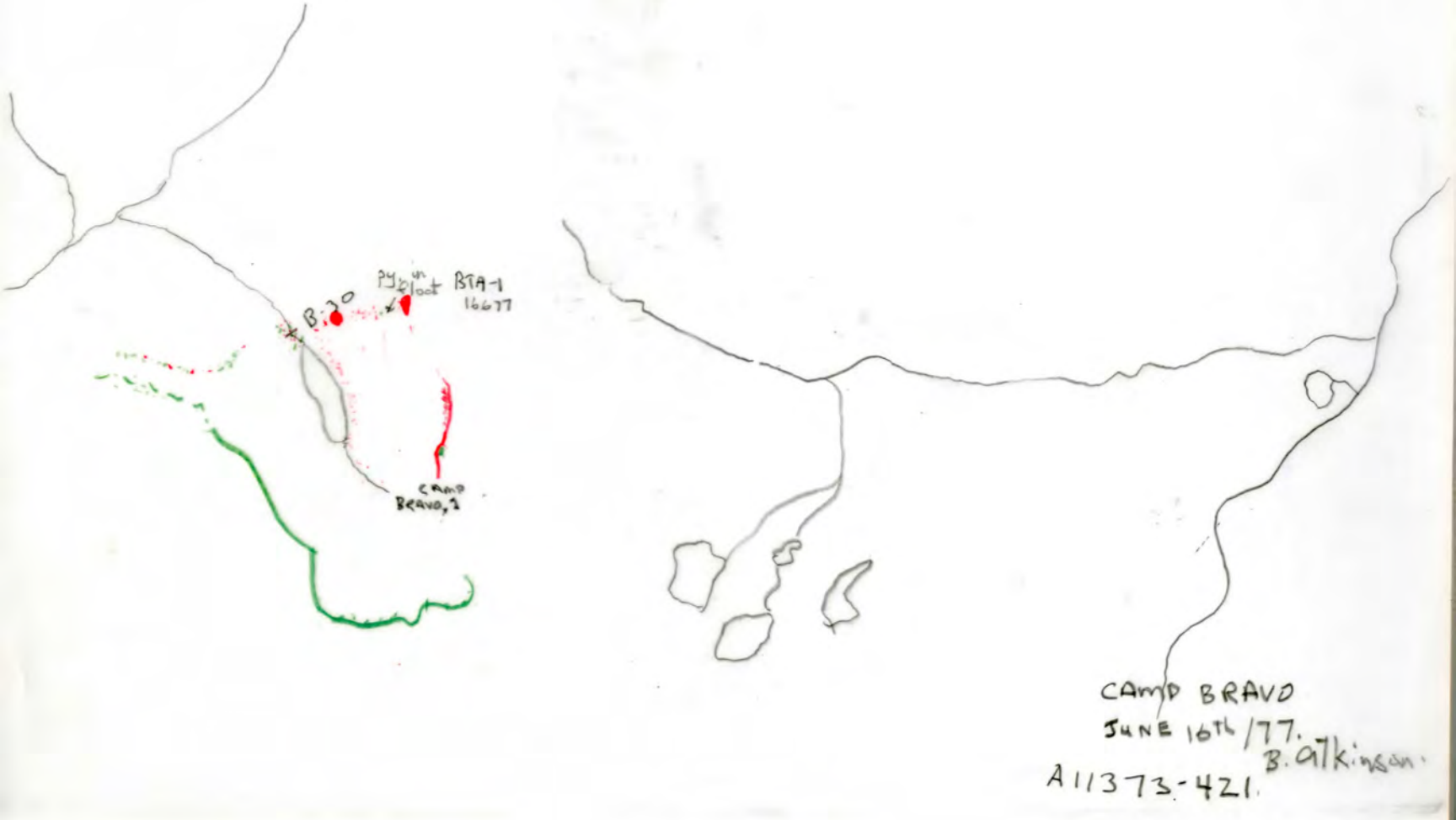
COLLECTORS: RYAN ATKINSON
AREA: BRAVO #1 1977
FIELD MAP: A-11373-421 Aer Photo
DATE: JUNE 12th - 16th / 77.

RESULTS PLOTTED BY:
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER 77DC—	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS							WATER RESULTS		
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Field Tests			Lab. Tests						
															Cu	HM		Mo	Cu	Pb	Zn			
B-6	SNOWED IN TALUS	X	X	X	X			X	1ft	3"	HIGH													
B-7	TALUS COVERED.	X	X	X	X	X		X	1	3"	"													
B-8				X	X	X		X	1	1ft	HIGH													
B-9	PARTS SNOW COVERED		X	X	X				6	1	"													
B-10	" "		X	X		X			1	6"	"													
B-11																								
B-12																								
B-13																								
B-14				X	X	X																		
B-15				X	X				1ft	3"	HIGH													
B-16				X	X	X		X	2ft	6"	HIGH													
B-17	Fast flowing	X	X	X		X		X	12	1'	"													
B-18	" "		X	X		X	X		8	1	"													
19			X	X		X	X		8	1	"													
20			X	X		X	X	"	6	2	"													
21	"	X	X	X				X	2	6"	"													
22			X	X			X		10	1	"													
23									4	2	"													
24		X	X	X				X	6	6"	"													
25		X	X					X	3	2ft	"													
26								X	1	2"	"													
27				X		X		X	6'	1"	"													
28		X	X	X		X		X	3	1	"													
29			X	X				X	4	1	"													
30	Lake discharge			X				X	20	1	LOW													


N
B-30
80, 8, 180
W-11
qtz-porphy
B-29
40, 3, 60
qtz porphy
B-28
8, 7, 60
B-27
12, 4, 60
B-26
18, 4, 95
B-23
20, 3, 50
B-22
24, 3, 60
B-20
20, 1, 70
B-19
20, 3, 75
B-18
18, 2, 70
B-17
54, 5, 110
qtz. porphy & phyllite float
phyllite seds
B-21
30, 4, 115
B-24
24, 2, 55
B-25
B-13
32, 4, 85
B-12
B-11
60, 6, 75
B-10
22, 8, 60
B-14
12, 3, 40
B-15
90, 4, 205
B-7
53, 10, 120
B-16
96, 3, 140
BRAVO
64, 3, 170
62, 11, 125
64, 4, 155
77, 4, 165
W-12
W-13
B-9
B-8
B-5
B-4
B-3
B-2
B-1
BTA-1 15677
Cu Mo Zn
Cu Mo Zn
CAMP BRAVO
June 13th - 15th 1977.
A 11373-421 B. Atkinson



CAMP BRAVO
JUNE 16th/77.
B. Atkinson.
A11373-421.

ADDENDUM TO NOTES FOR 7/13/77 MADE ON 7/28/77

STA. 4

The rock described as assimilated sed. or meta-sed. may actually be a mafic or ultra mafic dike or intrusive in the light of later experience (STA. 33). It contains chlorite, a trace of magnetite & has the general appearance of a crystalline igneous rock such as fine grained gabbro or perhaps diabase.

6/14/77

Chopper due in at 3:00 PM
Geochem Traverse E of
BRAVO #1 AIR PHOTO
A11536-411

5. Fairly fresh camp site.
One yr. old (?).

6. Gray, med. grained
qtz. monzonite with
biotite, hornblende, &
pyrite.

7. Gray-green, coarse
grained qtz. monzonite

6/15/77

BRAVO #1 AIR PHOTO
A11536 ~ 411

8. Gray ~ green, fine grained amphibolite with qtz., biotite, & chlorite. Old stringer of white vein qtz.

9. Gossan on NW side of sharp V-shaped valley about 3 mi. to SW (223°). Gossan slash on ridge about 5 mi to N bears 002°

Gray, fine grained qtz. sch.

10. 40° / 62° Gray qtzite & qtz sch. Qtz. stringers parallel planes of schistosity.

QTZ. AMPHIB. SCH.

11. Metasediments assume fine grain texture, massive, dark gray color, & generally siliceous appearance.

12. Fine grained, gray, impure qtz. sch. 30°/56°

Joints stained with limonite & Mn. These joints & stains are prolific enough to make it difficult to obtain a fresh fracture.

6/16/77

BRAVO #1 AIR PHOTO
A11536-411

13. On light tan, med. to coarse grained qtz. monzonite. Trace amounts of somewhat oxidized py. Contact with meta-sed is immediately up slope about 100 to 150 ft to the S. Contact obscured by snow. Sed. very much resemble greenstone but I think this is metamorphic phenomenon. Some are dense fine grained, gray white and some of these have thin (<1") drussy qtz stringers with a trace of calcite. Sed. also contain py.

(13.) 85°/055 An extremely flat (polished?) joint system occurs in the monzonite. There are also 1/4" to 1/2" white qtz stringers.

14. Hard, fine grained, re-crystalized appearing phase tends to form NE-ly trending ridges parallel to joint system. 76°/083° Fe stain on fractures.

15. CONTACT ZONE
Gray, fine grained qtz sch to SW. 117°/63° White qtz in nodules & along schistose planes.

Monzonite to NE is very fine grained, white in color,

has bleached appearance and contains assimilated sediments

16. Gray, fine to med. grained qtz monzonite No apparent mineralization. Analysis might be interesting to assure that nothing has been missed.

17. Gray, med. to coarse grained qtz. monzonite. Some sausseritization. White qtz veins up to 3" thick

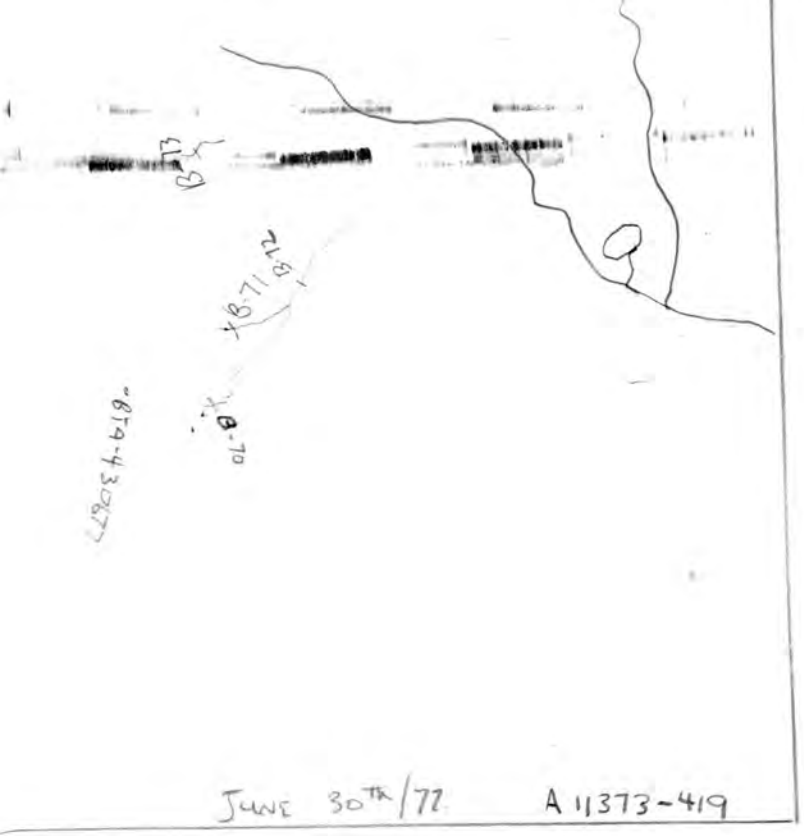
BRIAN ATKINSON.
A-11536-411
BRAVO #2
JUNE 17 - 20th/77.
1" = ½ mile.

igneous, qtz-feldsp porphyry outcrop.
talus +/or float.

sediments, qtzites, slates, metaseds. outcrop
talus +/or float.

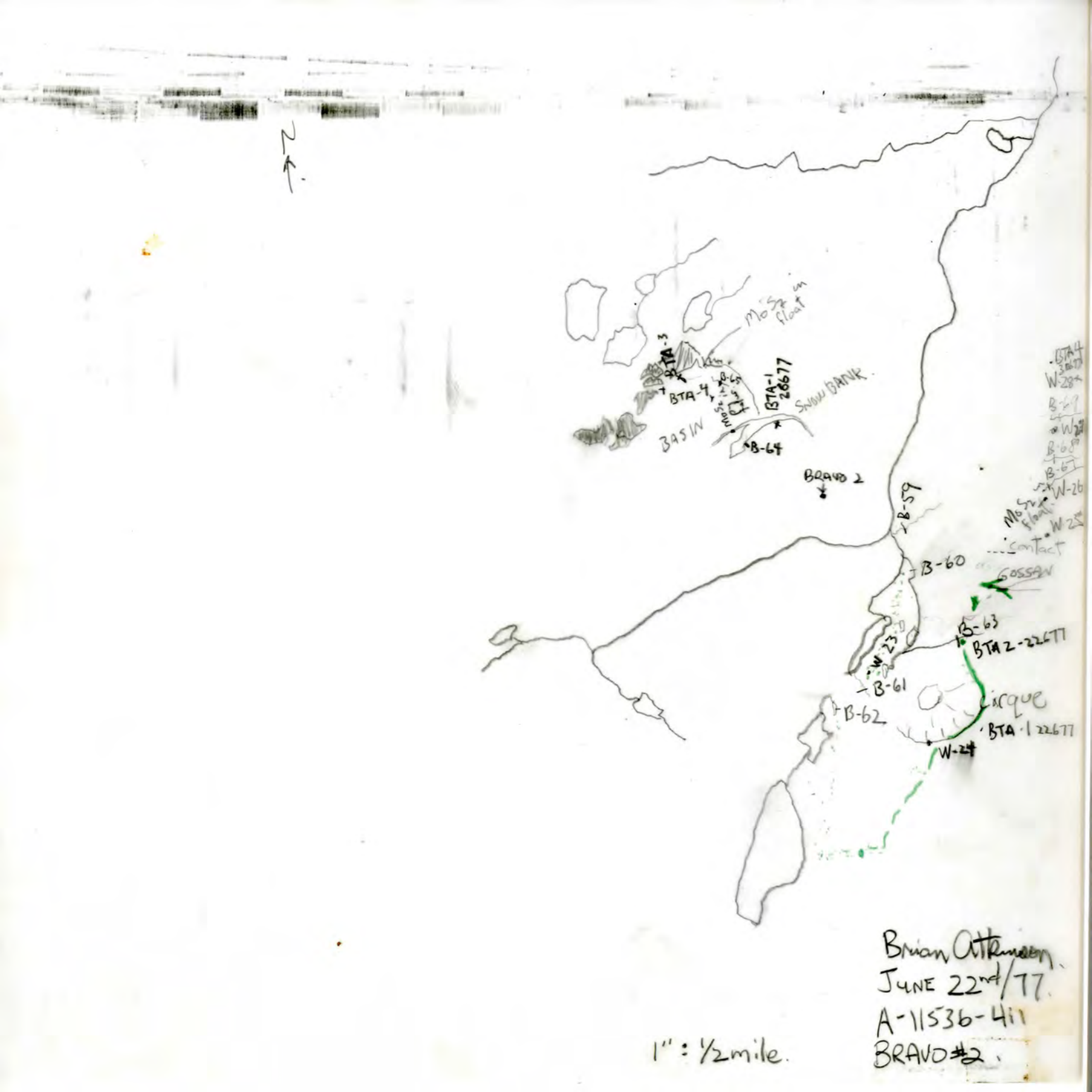
1" = ½ mile.

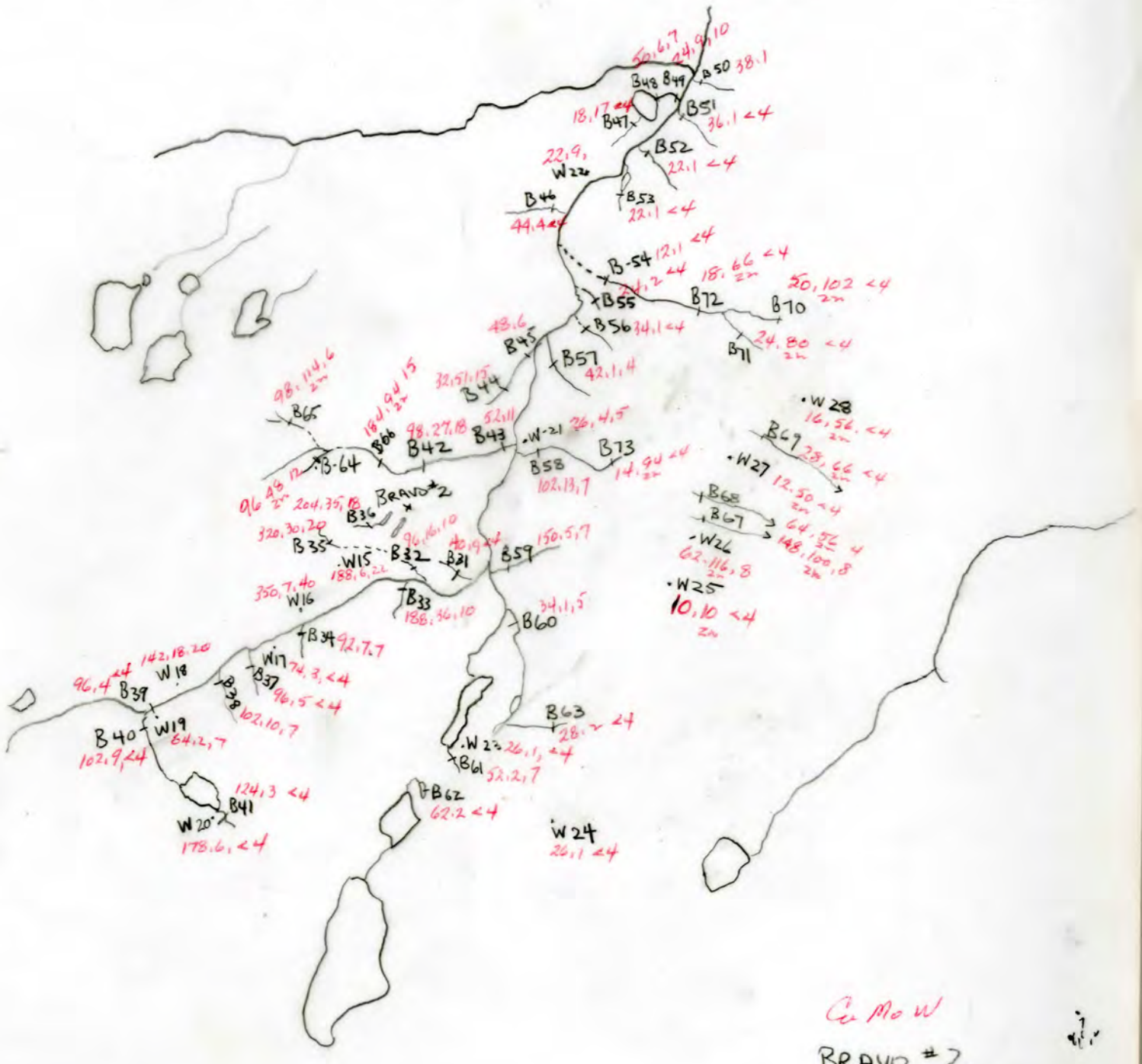
BRIAN ATKINSON
JUNE 17 - 22/77
A-11536-411
BRAVO #2.



JUNE 30TH/77 A11373-419

BRIAN ATKINSON A11373-421
JUNE 21 - 1977.


BTA-3
BTA-4
BTA-1 28677
SNOW BANK
BASIN
B-64
BRAVO 2
B-59
B-60
GOSSAN
B-63
BTA 2-22677
B-61
B-62
BTA-1 22677
W-24
1" : ½ mile.
Brian Atkinson
JUNE 22nd/77.
A-11536-411
BRAVO #2.



C. Mow

BRAVO #2
A 11536-411
JUNE 17 - 30 1977

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: T.O. FLETT
AREA:
FIELD MAP: A 11536 ~ 411 (AIR PHOTO)
DATE: 6/18/77 TO 6/22/77

RESULTS PLOTTED BY:
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Field Tests			Lab. Tests							
															Cu	HM		Mo	Cu	Pb	Zn				
77DCB116	6/18/77 PROBABLY INTERMITTANT			X				X	6"	1"	MED	6/18/77													
77DCB117	6/18/77			X		LOW		X	2"-3"	1"-2"	MED														
77DCB119	SEEP AT OUTLET OF ALPINE MEADOW	6/19/77		X		LOW		X	SEEP	8"-10"	SLOW	FROM SMALL POOL													
77DCB121	POOL IN STREAM IN ALPINE MEADOW	6/19/77		X		LOW TO MED		X		6"	MED														

CHEMEX LABS LTD.
SOIL SAMPLES

COLLECTOR: T.O. FLETT
AREA:
FIELD MAP: A 11536 ~ 411 (AIR PHOTO)
DATE: 6/18/77 TO 6/22/77

RESULTS PLOTTED BY:
MAP:
DATE:

ANALYST:
METHOD: H.M:
CU.:
DATE:

	SAMPLE NUMBER	SAMPLE LOCATION	NOTES	TOPOGRAPHY: VALLEY BOTTOM	SLOPE UP	SLOPE DOWN	HILL TOP	LEVEL GROUND	VEGETATION: HEAVILY WOODED	SPARSELY WOODED	BURNT	LOGGED	GRASSLAND	SOIL DATA: HORIZON SAMPLED	THICKNESS OF HORIZON	HORIZON DEVELOPMENT: GOOD	POOR	PARENT MATERIAL: DRIFT	BEDROCK	FIELD SCREENED	VALUES: Mo	Cu	Pb	Zn	
6/18	77DCW114	A11536~411	At B_2. Brown, sandy			X ?	X ?			X				B+C	24"		X		X						
"	77DCW115	"	TALUS SLOPE 4"-5" Moraine			X				X				B+C	?		X		X						
"	77DCW118	"	HIGH BASIN 3" FROST BOIL						ALPINE MEADOW					B+C	?		X		X						
6/19/77	77DCW120	"	GOSSAN ZONE				X		O/C a little grass					B+C	0		X		X						
6/21	77DCW122	"	TALUS SLOPE		X	X			GRASS, LICHENS					C	?		X		X						
6/22	77DCW123	"	FROST BOIL				X		GRASS, LICHENS					C	?		X		X						
6/22	77DCW124	"	SADDLE, CONTACT?				X		GRASS, LICHENS					C			X		X						
6/22	77DCW125	"	TALUS, CHILL ZONE		X	X				X				B+C			X		X						

CHEMEX LABS LTD.
SOIL SAMPLES

COLLECTOR: BRIAN ATKINSON
AREA: BRAVO #2,
FIELD MAP: AIR PHOTO A 11536-411
DATE: JUNE 19th 1979

RESULTS PLOTTED BY:
MAP:
DATE:

ANALYST:
METHOD: H.M:
CU.:
DATE:

SAMPLE NUMBER	SAMPLE LOCATION	NOTES	TOPOGRAPHY					VEGETATION					SOIL DATA						FIELD SCREENED	VALUES				
			VALLEY BOTTOM	SLOPE UP	SLOPE DOWN	HILL TOP	LEVEL GROUND	HEAVILY WOODED	SPARSELY WOODED	BURNT	LOGGED	GRASSLAND	HORIZON SAMPLED	THICKNESS OF HORIZON	HORIZON DEVELOPMENT: GOOD	HORIZON DEVELOPMENT: POOR	PARENT MATERIAL: DRIFT	PARENT MATERIAL: BEDROCK		Mo	Cu	Pb	Zn	
77 DC	AIR PHOTO														GOOD	POOR	DRIFT	BEDROCK						
W-15				X					Alpine				B	6"		X		X						
W-16				X					"				B	6"		X		X						
W-17				X					"				B	?		X		X						
W-18				X					X				B	1ft	X			X						
W-19		Silt pool (dry)		X					X						—			X						
W-20		By outcrop with gossan		X					X				B					X						
W-21		Dry river valley	X				X		X				B	3"		X		X						
W-22		" "	X				X		(Brush)		X		B	?	X			X						
W-23					X		X		X				B	6"		X		X						
W-24		Cirque peak							Alpine				B	2"		X								

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: BRIAN ATKINSON
AREA: BRAVO #2.
FIELD MAP: AIR PHOTO A11536-411
DATE: JUNE 19th/77

RESULTS PLOTTED BY:
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
															Field Tests			Lab. Tests							
TDC		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
B-31																									
B-32																									
B-33																									
B-34																									
B-35																									
B-36				X																					
B-37	Dry - Stream			X	X			NO					X												
B-38	Good Zinc anomaly			X	X			Yes	15'	3"	HIGH														
B-39	" " "			X	X			Yes	6"	3"	"														
B-40				X	X			Yes	6"	3"	"														
B-41		X		X		X		Yes	3'	6"	"														
B-42				X		X		X	2'	2"	MED														
B-43		X	X	X				X	2'	3"	"														
B-44				X		X	X		1'	1"	"														
B-45		X	X	X		X		X	2'	3"	"														
B-46			X	X		X		X	2'	1'	"														
B-47				X		X	X		1'	2"	"														
B-48		X	X	X				X	20'	6"	"														
B-49		X	X	X		X	X		20'	6"	"														
B-50		X	X	X				X	1'	6"	HIGH														
B-51				X		X		X	1'	1"	"														
B-52			X	X				X	3'	6"	"														
B-53	Shallow lake						X		100'	1'	V LOW														
B-54	Mountain stream	X	X	X		X		X	2'	3"	HIGH														
B-55			X	X				X	2'	3"	MED														
B-56				X	X			X	1'	3"	"														
B-57				X	X		X		1'	3"	HIGH														
B-58				X	X	X		X	1'	6"	"														

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: Brian A Thomson.
AREA: BRAVO #2.
FIELD MAP: AIR PHOTO A 11536-411
DATE: JUNE 22nd /77.

RESULTS PLOTTED BY:
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
															Field Tests			Lab. Tests							
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
B-59				X	X			X	1'	2"	LOW														
B-60				X	X			X	6'	6"	low														
B-61				X		X			1	3"	HIGH														
B-62	Snow-melt pond				X								X												
B-63		X		X		X		X	1'	1"	HIGH														

6/18/77

BRAVO #2. AIR PHOTO A11536-411

18. Gray, coarse grained qtz. monzonite porphyry with biotite, hornblende, & trace py. Saussuritzed plag. Probably K-fldsp. phenocrysts.

19. Large boulder in talus slope has coarse grained qtz. monzonite porphyry in sharp contact with a gray green aphanitic igneous rock with large phenocrysts of flds. (> 1/2") and fewer smaller phenocrysts of quartz. Contact looks as if it had been drawn with a straight edge. This

is float. No sign of dykes or sills have been observed in O/C to this point. Both rock types contain Py.

6/19/77

BRAVO #2 AIR PHOTO
A11536-411

20. Coarse grained qtz monzonite with saussuritized plag. & hornblende. Fractures are rusty (both Fe+Mn).

21. Just above slide area apparently approaching contact.

a.) Mony. grain size decreases.

b.) Mony. appears darker gray in color.

c.) Py (?) content appears to increase.

22. Gray to gray green fine grained met~ amorphic rocks. Very fine grained. appear to be qtz. sch. amphibo~ olite, & chlorite amphibole sch. Qtz. veins & tiny stringers of epidote (?) occur erratically.

Possibly Hbrn ?
- actinolite / tremolite
- hornblende
- epidote
- garnet

Mineral grains to fine for accurate identification.

23. Massive, fine grained gray green amphibolite.

24. Contact with fine grained, rather gneissic qtz monzonite. Ridge is serrated & rock quite fractured. Fractures are rust stained with limonite * Grab sample picked from along the ridge top where gossan zone appears to originate.

* Traces of MoS_2 in broken up light colored "bleached looking portion. This material also has a fine yellow powdery mineralization it with a slight greenish cast ... possibly wulfenite or a hydrated Mo mineral(?).

6/21/77

BRAVO #2 AIR PHOTO
A11536-411

25. Medium to coarse grained qtz. monzonite porphyry. Saussurized. Two well developed joint systems cause "columnar" appearance.

80°/338° 050°/67°

26. Medium to coarse grained qtz. monzonite & qtz. mon. porphyry. Stds. appears somewhat fresher, less altered. Stds. phenocrysts have pinker hue.

335°/75°

6/22/77

BRAVO #2 AIR PHOTO
A11536-411

27. Gray, fine grained, qtz sch. Also qtz. amphibole sch. & qtzite. White milky qtz in veins, nodules, & along planes of schistocity. Limonite locally. Most of the exposure is rubble crop. (R/C).

28. Same rock type. O/C.

140°
57°

29. Same rock, O/C.

47°
62°

30. Contact between gray siliceous impure qtzite & contact met. hornfels.

HORNFELS

White or light gray chill zone with metamorphic minerals (porphyroblasts of chiastolite (var. of andalusite) & andalusite and possibly other Al-rich metamorphic minerals) in a very fine grained matrix. This area has only limited exposure of ~~contact zone (possibly a cupola).~~

RELATED TO ULTRA-MAFIC INTRUSIVE(?).

31. X10. 40°. Impure qtz. sch.

White qtz. along planes of schistosity. qtz/amphib. sch

32. Massive black fine grained amphibolite.

SEE NOTES FOR 6/26/77.

33. Zone of very fractured highly altered dark green fine grained rock. Rock is rusty on weathered surfaces but highly ~~carbonatized~~ serpentinized

on fractures and into the matrix of the rock as well. Possibly the work of late magmatic fluids on flds in the country rock surrounding the intrusive? A zone of white high grade metamorphic rock is also present (see STA. 30), sample 77DCW124.

34. 285° Gray fine
50° grained qtz sch
~~fracture zone 8" to 12" wide~~ smaller fractures filled with qtz
35. Medium grained, rather gneissic qtz. monzonite porphyry with chill zone of high temp. met. rocks just to the S. Chill zone represented by dotted

MAPPED IN FLOAT

NO !

MAPPED IN FLOAT & O/C.

line on the map is about 30' to 50' in width (N~S).

6/28/77 The "chill zone" of hornfels is not present in other areas where the metased. & the mony. are in close proximity. See notes for stations 20, 21, 22, 12 and 15, 16, 17. It was traced partly in float and appears to cross the contact of the sed. & the stock at an acute angle. This rock may be due to the contact metamorphic affect of the ultra~mafic rock mass rather than the stock of intermediate composition.

6/23/77

BRAVO #2 AIR PHOTO A11536-411

36. Gray, fine grained qtzite & qtz. sch with qtz along planes of schistosity & limonite on fractures. 120°/70° 83°/035°

37. Gray, fine grained qtz. sch. 136°/50° 028°/80°
qtz & limonite as at STA. 36.

38. Rather massive, gray green, fine grained qtz amphibole (?) sch.
Sample # 77 DCB 126

6/26/77

BRAVO #2 AIR PHOTO
A11536-411

EXAMINATION OF MoS_2 SHOWING IN O/C ZONE TO THE E & SLIGHTLY N OF STA. 35.

Host rock is a medium grained qtz. monzonite porphyry with feldspar phenocrysts up to 1" in diameter. Closer to the contact the igneous rock appears somewhat finer grained and rather gneissic in texture.* alteration of the monzonite appears to be saussurization, silicification? and argillization, occuring most intensively along joints & fractures and penetrating into the rock mass from them.

a good example of this is included in the bag of samples marked 35 T.D.F. 6/26/77. Another portion of this sample taken from this O/C has a 1" feldspar phenocryst sheared so that it is offset approx. 1/2" implying that some shearing has taken place in at least this mineralized portion of the stock. MoS_2 is distributed most spectacularly along joints along with some limonite and it appears to permeate the rock back from the joint slightly as well but generally it seems to be associated with fractures. The tiny blebs also have limonite halos about them. Fracturing

is not intensive + one generally notes MoS_2 in more obvious amounts every 5, 10, or 15 ft. rather than in closely spaced (a few inches) fractures.

* I initially termed the rock composition monzonite largely on the basis of its light color. Phenocrysts seem to be K-feldspar in this area but occasionally I observed plagioclase striations. It is probable that saussaritization has destroyed many of the striations and that the rock is somewhat more mafic than it appears. Petrographic work might well reveal it to be dioritic in

composition.

RE-EXAMINATION OF RIDGE SW OF MoS_2 SHOWING. TRAVERSE IS SW FROM STA. 35 TO STA. 31. FROM APPROX 120 FT. NE OF STA. 35 TO SW about 60' of very fractured oxidized monzonite (?) exposed to SW along the ridge followed by about 60' of medium grained qtz monzonite porphyry which appears somewhat fresher and harder. Some silicification along fractures

"CHILL ZONE" DESCRIBED AT STA. 35. This zone is largely R/C and float, about 100 FT. wide and composed of hard, brittle light gray or tan colored matrix with porphyroblasts

of biotite possessing
fluorite halos and
andalusite. As suggested
in my addendum to
my notes for 6/22/77,
this hornfels may
be related to ultra-mafics
rather than the monzonite
stock.

FROM STA. 33 TO SW

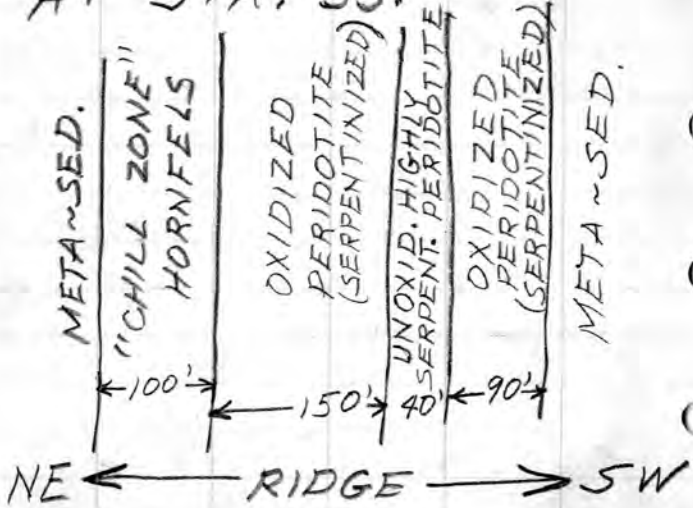
100' of "CHILL ZONE" hornfels
as described above.

150' Black, aphanitic,
serpentinized trap
rock with red Fe-oxide
on all exterior surfaces
Probably fine grained
peridotite or pyroxenite

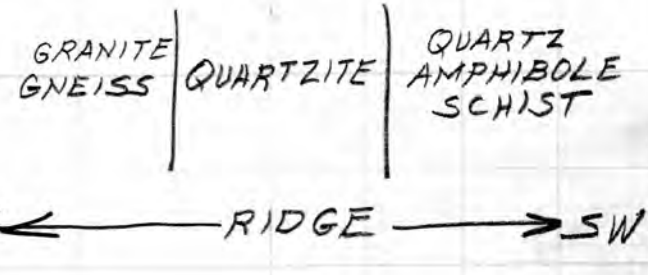
40' of the same rock
type but highly
serpentinized, both
on fractures & within
the matrix. No Fe-
oxide present.

90' fine grained peridotite (?), this time with Fe-oxide on fracture surfaces. This sequence (& presumably the 190' that just preceded it) exhibits a high magnetite content.

AT STA. 33.



At STA. 32, the massive black, fine grained rock described in notes for 6/22/77 actually follows a sequence more like this:



Gossan indicated on the photo overlay between STA. 31 and 32 occurs in fractured schist and seems to be of no significance.

STA. 36 200' to 400' S of the O/c

(STA 35 & E)
showing MoS_2 was examined briefly but no sign of mineralization was observed. If time permits I would like to check this o/c more thoroughly.

6/29/77

BRAVO #2. AIR PHOTO A11536-411

SOIL SAMPLE 77DCW128 taken in stunged soil on mt. side between O/C of fractured gray, impure qtz sch. or phyllite. The rock is quite fractured & fairly highly gossan stained on all fractures & it contains noticeable pyrite. 086° / 61°

39. Gray, fine grained, qtz. sch. 318° / 54° 310° / 72° {Better exposure.

White qtz stringers along planes of schistosity.

SOIL SAMPLE 77DCW129 sample taken in dry drainage & pattern on crest of ridge in small basin. The drainage

pattern has formed along a fracture zone in the meta-sed. Gossan is on fracture surfaces & forms a predominant stain on the steep slope to the W into the anom. area. Fine grained white or light gray hornfels (?) with small bronze colored porphyroblasts of oxid. biotite (?) are present as float along this zone.

40. Fine grained, gray qtz. sch in O/C. Med. grained qtz. chlorite sch R/c on slope up to peak immediately E of X.

328°
87°

41. Rather massive
fine to med. grained
gty. biot. sch.

6/30/77

BRAVO #2 AIR PHOTO
A 11536 ~ 41

42. Contact between meta-sediments & qtz. monzonite stock. Meta-sed. transition from fine grained, gray, impure, qtz. sch and amphibole sch to a hard, brittle, fine grained, gray green, slightly chloritic amphibolite and a fine to medium grained, gray green quartzite with some amphibole, chlorite, and biotite. Qtz. monzonite is slightly finer grained but porphyritic with 1" flds phenocrysts and small inclusions of

assimilated meta-sed. ~~as present~~. Py present in small amounts & MoS_2 occurs along limonite stained fractures.

43. R/C in alpine basin contains tiny spots of MoS_2. A second specimen with assimilated meta-sed. has tiny hair-like acicular ~~x tals~~ of green mineral in * limonite cavities. Traces of meta-sed. & serpentinized peridotite with oxidized surfaces were also present as float.

44. ~~Fr~~ fractured qtz. mon. porph. with gossan in fractures.

45. Monzonite assuming somewhat "gneissic" character. Grains are crudely aligned, more equal in size (less porphyritic) though rather coarse. Qtz. & chlorite content may be increasing. Qtz vein about 6" wide plus smaller stringers and veins are present.

* STA. 43. Possibly tiny X tals of actinolite in a fragment of metased that was assimilated by the mony. porph. (?). X tals appear to fine & hair-like for actinolite.

RADIO: 8:00 A.M. & 7:30 P.M.

ELEV. AIRSTRIP: 3500'

PHOTOS: 1" = 1/2 MI.

DECL.: 31.5° E

S = SNOW

Q = QUATERNARY

Gr = GRANITE

Mon = MONZONITE

Drt = DIORITE

Gab. = GABBRO

L.S. = LIMESTONE

S.S. = SANDSTONE

S.T.S. = SILTSTONE

Qtzite = QUARTZITE

Sch = SCHIST

R/C = RUBBLE CROP

O/c = OUTCROP

Qtz. = quartz

Py = pyrite

Po = pyrrhotite

Cp = chalcopyrite

Mol = molybdenite

↗ BEDDING

↗ FOLIATION

↗ JOINT SYSTEM

GOSSAN

OVERBURDEN

FOR AIR PHOTO A11536-411

CAMPS BRAVO #1 & #2

JUNE 13, 1977 ~ JUNE 30, 1977

STA. 1. THROUGH 45.

FOR AIR PHOTO A11370 ~357
CAMPS BRAVO #3 & #4 7/1/77 ~ 7/15/77
STA. 46. THROUGH STA.
SCALE OF PHOTOS: 1" = ½ MI.
MAG. DECL. 31.5° E
↗ BEDDING ↗ FOLIATION
⌀ JOINT SYSTEM XXXX GOSSAN
S = SNOW
Q = QUATERNARY OVERBURDEN
BLM = BIOTITE LEUCO MONZONITE
APLITE DIKE ROCK
Gab = GABBRO
LIMEY SEDIMENTS (CHERT, QTZITE, & Slts. LARGELY)
VOLCANICS
VESICULAR TRAP ROCK & WELDED TUFF
CHERT
QTZITE = QUARTZITE
Slts. = SILTSTONE
META-SED. DERIVED FROM ABOVE
R/C = RUBBLE CROP
O/C = OUTCROP
Qtz. = QUARTZ
Mag. = MAGNETITE
Py = PYRITE
Po = PYRRHOTITE
Cp = CHALCOPYRITE
Mal = MALACHITE
W = TUNGSTON (SCHEELITE)

FROM	TO	SENT IN
6/13/77 77 DCW 102	6/16/77 77 DCB 113	6/17/77 ~ B_1
77 DCW 114 6/18/77	77 DCW 125 6/22/77	6/23/77 ~ B_2
77 DCB 126 6/23/77	77 DCW 134 6/30/77	7/1/77 ~ B_2
FIELD NOTES 6/13/77, STA. 1	FIELD NOTES 6/30/77, STA. 45	7/3/77 ~ B_3
77 DCW 135 7/5/77	77 DCW 148 7/7/77	7/8/77
77 DCW 149 7/9/77	77 DCB 156 7/15/77	left at B_4 on 7/15/77

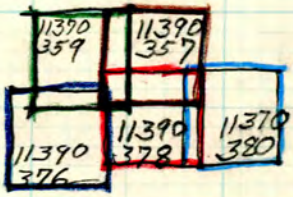
samples 77 DCB 101 and 77 DCW 101 used while in base camp prior to 6/13/77.

O/C = OUTCROP
(BLM in this case)

R/C = RUBBLE-CROP (aplite dike rock in this case) Exclusively large boulders of single rock type. Generally on ridge top & very probably in place

FLOAT (mostly limonited but some clastics in this case.)

AIR PHOTO COVERAGE
FOR B_3 + B_4



JIM DOUGLAS
VICKI DOUGLAS
} FOR STAKING

7/4/77

BRAVO #3 AIR PHOTO A11370-357

46. Welded tuff & vesicular trap rock with chlorite & traces of magnetite.

86°
□
358°

47. Zyte & banded chert (alternating light & dark layers). Zn-oxide test neg. on rusty fractures.

48. Light gray, somewhat cherty L.S. 095°
40°

Zn-oxide test neg.

49. Tan to gray, hard brittle fine grained argillaceous chert or zyte. Bedding appears parallel to L.S. but is not pronounced enough to permit measurement of attitude.

50. Gray L.S. becoming more siliceous from W to E along ridge.
48°
50°

51. From 50. to 51. Rock transitions from a silty chert to qtzite with Py and qtz. sch. Their attitude becomes uncertain & they are quite shattered. Limonite stains fractures frequently. Zn-oxide test negative.

52. Qtzite with calcite in fractures.

53. Gray sts in contact with qtzite. Fine stringers of green mineral in the sts. Possibly epidote (?) some fractures

are rusty.

54. Hard, dense, fine grained, dark gray, siliceous sts.

The slope between STA. 53 & 54 is pretty well obscured by talus and Q but the few existing O/c suggest that this area & probably on down the slope to the S is underlain by layers of q/ite, chert, and a dark gray fine grained argillaceous siltstone (slts.), probably dipping in a southerly direction like the sediments on the ridge.

7/5/77 gr., possibly O/c, occurs downslope in the creek to the S.W.

7/5/77
AIR PHOTO
A11370-357

BRAVO #3

55. Intercalated chert and gryite 47°
50°

*56. R/C of fine to med. grained, pink, biotite granite.

*57. Contact with shattered, brittle, rather fine grained pink, biotite gr. Rock is very fractured and quite gossan stained on fracture surfaces. Zn-oxide test neg. A well developed joint system roughly perpendicular to the ridge causes the gr to break into 3" & larger slabs. 175° 80°

Gossan stained fractured zone extends 200' or so along the ridge. Farther to the E from the contact the gr. becomes med. grained. The air photo shows a slight off-set & the ridge is lower & much more fractured near the contact. Possible fault ??

* Biotite leuco-qtz. monzonite according to G.S.C.

255-260
180
80°

247°-248°
10
85
80°
050°

326°

7/6/77
AIR PHOTO
A11370-357

BRAVO #3

77DCW139 Soil sample taken from just below crest of rounded ridge in R/C of Biotite leuco-gby monzonite (B.L.M.)

77DCW140 R/C of B.L.M. Rather weathered specimen taken from R/C to check green mineralization. Looks like saussuritized flds.

58. B.L.M. forms large N facing bluff. Two very smooth, very well developed joint systems.

85°/102° — POSSIBLE SLICKENSIDES

90°/43°

Moderate gossan stain on both systems.

59. 10' vein of light gray fine grained rock crosses ridge through

260
160
80°

BL.M. Strike approx. 260° which is parallel to well developed prominent joint system.

60. BLM becoming quite fine grained. 093°
Very smooth joint system

61. 200' section of shattered rock, partly masked by snow, along crest of ridge. Rock may be an aplite dike with phenocrysts of biotite, qtz. (?), and possibly zircon or sphene or some other such accesory mineral. R/C very fractured but not excessively rusty. It appears to strike in approx. the same direction as the vein or dike at STA. 59 & appears to be the same

material though more weathered.

62. Gray fine grained banded gneiss in R/C.

7/7/77
AIR PHOTO
A11370-357

BRAVO #3

63. Dark gray, hard siliceous siltstone & chert. Float below O/C contains thin (<1") bands of skarn. Some fragments in the float are criss-crossed with green stringers of fine grained material but they are quite thin. Zn-oxide test negative.

64. Fine grained tan & gray siliceous Slts. 195°/36°

65. Gray silty qtzite. 171°/71°

66. Highly fractured zone 10'-12' wide. Rock extremely crumbly

and gossan stained. Containg calcite and qtz. stringers. Zn-oxide test neg. 100°/73° Extremly smooth joint system.

67. Banded silty qtzite. Sediments appear to be assuming a more metamorphic character. They contain py in places. 127°/43°

7/7/77

My last couple of reports have been hasty & probably incoherent. We did not stake the last area because I felt that the mineralization was not as intensive as you indicated that you hoped it would be. However, I think that we have demonstrated low grade mineralization over a respectable area. I think that if the D.C. syndicate does not stake it someone

else eventually will. I feel that the area merits further consideration.

T.O.S.

WEEKLY CAMP REPORT

PROJECT D.C. CAMP NAME & NUMBER BRAVO #3

NTS SHEET WOLF LAKE 105B DATES 7/4/77 TO

AIR PHOTOS A11370~357 LAT & LONG 60°16'N, 131°36'W (CHECK)

SILT SAMPLE SERIES 77DCB74~100, 201~227 B.A. 77DCB136~138, 145~147 T.O.F.

SOIL SAMPLE SERIES 77DCW29 B.A. 77DCW135, 139~144, 148 T.O.F.

ROCK SPECIMEN NUMBERS _____

Most of the area in the central part of the above air photo has been covered. Specifically, the geology to the E of B3 has been mapped along the contact between sediments & the biotite leuco qtz. monzonite adjoining the ridges already mapped. Geochem. has been completed along drainage patterns to the N and to the S of B3. It would appear that trace amounts of scheelite are common in the intrusive & the modest stream anomaly in the NE drains an area of monzonite O/C. This seems to be the best explanation for the anomaly at present. If this is the case, the geochemistry we have just completed should produce similar values.

I propose to establish B4 about one mile to the S.E. in order to obtain geochem.

(over)

from the drainage systems to the S and yet allow me access to the ridges S and W of our present camp (B_3). These are sediments but close enough to the intrusive to make a skarn likely if the L.S. is co-operative.

There is L.S. E of B_3 but not in contact with the intrusive. Unless the geochem. produces a target or the low grade W in the monzonite interests you I would write this area off. I have used the Zn-oxide test kit on the sediments but all tests have been negative.

I very much regret leaving you in the lurch. I will attempt to explain the situation when I see you. If it is of any value, I think that Brian is one of the best partners I've worked with. I don't know if he can keep a program rolling or get the necessary information onto paper but he is a well trained geologist and he works hard. If you can obtain a suitable soil sampler I think that he might serve very well as geologist.

Ed

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: T.O. FLETT

AREA: B3

FIELD MAP: A11370~357 (AIR PHOTO)

DATE: 7/4/77 TO

RESULTS PLOTTED BY:

POSTING MAP:

DATE:

ANALYST:

METHOD: (A):

(B):

DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
															Field Tests			Lab. Tests							
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
7/5 77DCB136	GRANITIC DEBRIS	X	X	X		LOW		X	OUTLET FROM POND IN CIRQUE																
7/5 77DCB137	IN "CIRQUE"			X		LOW		X	3"~1'	2"	LOW														
7/6 77DCB138	SEEP NEAR CREEK BY TALUS~FAIR SOIL DEVELOP.			X	X	LOW		X	SEEPAGE FROM TALUS BELOW		LOW														
7/6 77DCB145	MONZ. FLOAT	X	X	X				X	6"~2'	3"~4"	MED.														
7/6 77DCB146	SEEP FROM UNDER TALUS			X		LOW		X	6"	2"	SLOW														
7/6 77DCB147	SEEP FROM UNDER TALUS			X		LOW		X	1'-3'	2"	SLOW														

CHEMEX LABS LTD.
SOIL SAMPLES

COLLECTOR: T. O. FLETT
AREA: B3
FIELD MAP: A11370-357 (AIR PHOTO)
DATE: 7/4/77

RESULTS PLOTTED BY:
MAP:
DATE:

ANALYST:
METHOD: H.M:
CU.:
DATE:

	SAMPLE NUMBER	SAMPLE LOCATION	NOTES	TOPOGRAPHY					VEGETATION					SOIL DATA						FIELD SCREENED	VALUES				
				VALLEY BOTTOM	SLOPE UP	SLOPE DOWN	HILL TOP	LEVEL GROUND	HEAVILY WOODED	SPARSELY WOODED	BURNT	LOGGED	GRASSLAND	HORIZON SAMPLED	THICKNESS OF HORIZON	HORIZON DEVELOPMENT: GOOD	HORIZON DEVELOPMENT: POOR	PARENT MATERIAL: DRIFT	PARENT MATERIAL: BEDROCK		Mo	Cu	Pb	Zn	
7/5	77DCW135	BRAVO #3			X	X				X				A,B,C		X	BUT SLUMPED ON TALUS SLOPE								
7/6	77DCW139	BRAVO #3	RIDGE TOP. MONZ. R/C				X		LICHENS, GRASS					B,C	?	X			X						
"	77DCW140	"	" " " " "				X		"			V		B,C	?		X		X						
"	77DCW141	"	" ERD'N. MARMOT BURROW ON SOIL COVERED TALUS		X	X			"			"		B,C	?		X		X						
"	77DCW142	"	" FROST BOIL				X		"			"		B,C	?		X		X						
"	77DCW143	"	"				X		"			"		B,C	1" or 2"		X		X						
"	77DCW144	"	" TALUS SLOPE		X	X			"			"		B,C	SLUMPED		X		X						
7/7	77DCW148	"	" SOIL ON TALUS SLIDE		X	X	SOME ORGANICS		"			"		A,B,C	THIN	X			X						

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: BRIAN ATKINSON

AREA: PHOTO # A11370-357

FIELD MAP: BRAVO #3

DATE: JULY 2-5th 1977

RESULTS PLOTTED BY:

POSTING MAP:

DATE:

ANALYST:

METHOD: (A):

(B):

DATE:

SAMPLE NUMBER 77 DC.	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
															Field Tests			Lab. Tests							
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
B-74	By Bravo #3.			X	X	X		X	1'	1'	M.														
B-75				X	X	X		X	1'	4"	M														
B-76		X		X		X		X	3'	6"	M														
B-77				X	X	X		X	1'	3"	M.														
B-78		X	X	X				X	3'	1'	H														
B-79		X	X	X		X		X	2'	6"	H														
B-80		X	X	X				X	5	1'	M														
B-81		X	X	X				X	6'	6"	M														
B-82		X	X	X				X	15'	6"	H														
B-83	Undercutting in bank.			X		X	X		15	6"	H														
B-84			X	X	X			X	1'	1"	L														
B-85	Hillslope trickle			X	X			X			V.L.														
B-86		X	X	X				X	15	6"	H														
B-87				X	X	X	X		1'	1"	L														
B-88	Dry bed.			X	X		—	—	—	—	—		X												
B-89				X	X			X	1'	1"	±		X												
B-90	Slow soil seepage			X	X		—	—	—	—	V.L														
B-91	Channel under snow			X	X			X	?	?	L.														
B-92	Seepage from snow bank						—	—	—	—	—														
B-93	Under talus - it takes left			X	X	X		X	?	?	M.														
B-94				X	X			X	1'	2"	M														
B-95				X	X	X			1'	4"	M.														
B-96				X	X	X			1'	1"	M														
B-97		X		X	X	X		X	18'	1"	H														
B-98		X	X	X	X	X		X	3	6"	H														
B-99				X	X			X	1'	2"	M.			X											
B-100				X	X	X		X	2'	6"	H														
B 201		X	X	X		X		X	3'	6"	H														
B-202				X	X				3'	3"	M														
B-203				X	X	X			2'	3"	M														

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: BRIAN AUGERSON

AREA: Photo # A 11370 - 357

FIELD MAP: BRAUD # 3

DATE: JULY 5TH 77

RESULTS PLOTTED BY:

POSTING MAP:

DATE:

ANALYST:

METHOD: (A):

(B):

DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
															Field Tests			Lab. Tests							
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
B-204	Marshland			X	X	X	X				M														
B-205	River		X	X	X	X		X	6'	1"	M														
B-206	"		X	X	X	X		X	15'	1'	M														
B-207	Creek-mouth			X	X	X		X	1'	1"	L														
B-208	High up cirque.	X	X	X				X	1'	1"	H														
B-209	" " "	X	X	X	X			X	1'	1"	H														
B-210		X		X	X			X	1'	1"	H														
B-211	Emerging from talus			X	X			X	1'	1"	H														
B-212	Groundwater seepage			X	X	X		X			L.			X											
B 213	Lake exchange			X	X	X		X	3'	1'	M														
B 214				X	X			X	1'	1"	M														
B 215				X	X	X		X	2'	6"	M														
B 216	Hillside seepage	X		X				X			V.L.														
B 217	Marshy flow			X	X	X		X	1'	1"	V.L.														
B-218				X	X	X		X	3'	6"	M														
B-219			X	X	X	X		X	2'	1'	M														
B-220			X	X	X			X	3'	6"	M														
B 221			X	X	X	X		X	1'	2"	M														
B 222			X	X	X	X		X	3'	6"	M														
B 223				X	X	X		X	1'	1"	M														
B 224				X	X	X		X	3	6"	M														
B 225		X	X	X	X	X		X	2'	6"	M														
B 226				X	X	X		X	2'	1"	H														
B 227				X	X	X		X	1'	1"	L														
SOIL SAMPLE																									
77DCW29	HILLTOP LEVEL GROUND SPARSELY WOODED 'B' HORIZON = 9"																								

7/9/77
AIR PHOTO
A11370 -357

BRAVO #4

68. Gray, massive, fine grained SLTS with tiny qtz. stringers & stringers of skarny material (epidote [?], etc.)

69. Contact between SLTS. & very calcareous chert Narrow bands are probably L.S. 10' thick skarn zone with garnet, epidote & magnetite. Chert 120° 36° Skarn stained by limonite & Mn & Contains traces of scheelite.

70. Contact between calcareous & chert & qtzite or qtz sch Rock very shattered & Fe stained. White

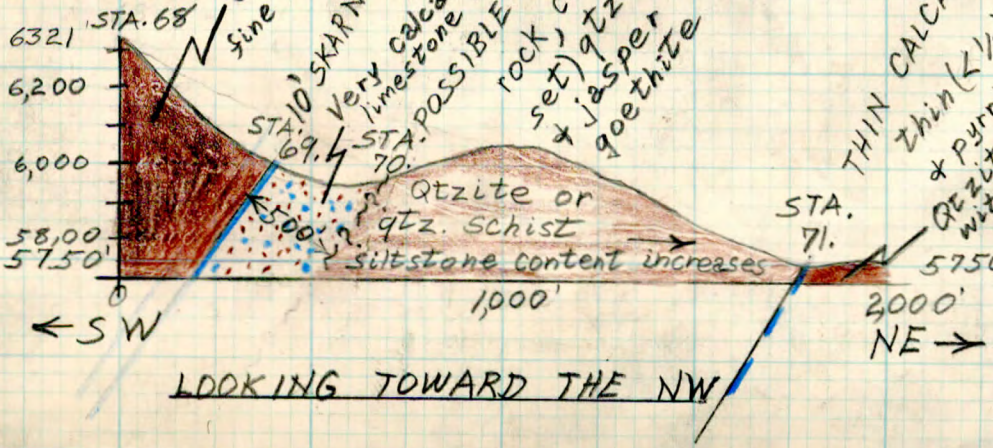
qtz veins appear to be set along bedding planes. Breccia with jasper matrix occurs in float slightly downslope. Float also contains jasper with limonite + goethite. Qtzite 108° / 36° ← Δ ? SCHISTOSITY(?) Possible bedding plane fault (?).

71. From 70 to 71 qtzite becomes interlayered with fine gray slts. At 71. Calcareous chert is present but relationship is not clear. Contact of some kind of schist + rock becomes fine gray slts with thin (< ½") skarn layers + pyrrhotite.

125
321
446

ELEV. FROM 4 MI. CONTOUR MAP 105 B CONTOUR INTERVAL 500'

6321
5750
571



LOOKING TOWARD THE NW

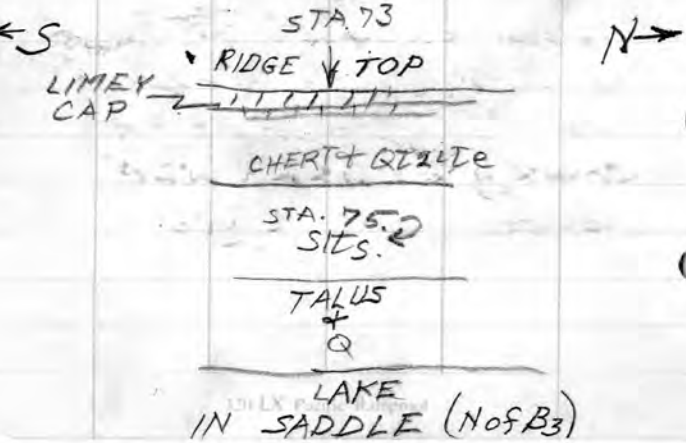
72. Intercalated SLTS. & CHERT 123°/33°

73. Chert predominant + very calcareous. SLTS. content has gradually diminished from STA. 72. 17°/51° 53°/062°

77DCW 152 fine grained green chloritic rock. Highly fractured & goskan stained. Narrow exposure (15') along ridge within very calcareous chert apparently weak skarn & tests for Zn oxide & with U.V. light both negative

Lower limey layer somewhat above contact between chert & siltstone in this vicinity. Note sketch below.

SECTION UP BLUFF
LOOKING TOWARD W



7/11/77
AIR PHOTO
A11370-357

BRAVO #4

74. ~~Four~~ weathered 4"x4". claim posts wired together with a blue flag attached. The only legible characters are 16 marked on two of the posts. They are bleached white & appear to be over a year old.

75. Dark gray, fine grained sits. with tiny blebs of Py & thin skarney lenses up to 1" thick as you approach the limey layer capping the bridge. Skarn appears to be mostly epidote + Py. some qtz. veining but evidence. 1250 / 350°

77DCW154 Highly fractured, gossan stained, massive gray slts.

→ this sample or contact between dark gray slts & light gray chert. Contact strikes approx 105° but expressed only in R/C. $\frac{126}{40}$ in chert

78. massive gray slts
thin layers of what appears to be a boulder conglomerate composed of gray slts. boulder up to 6" + 8" in diam.

76. Intercalated chert + slts.

77. Gray slts.

→

7/13/77

BRAVO #4 AIR PHOTO
A11370-357

79. Contact between BLM + sediments. At contact sediments are chert or qtzite but they form part of larger unit of interbedded chert & SIts.

A shallow pit appears to have been dug about 150' to the SE at the crest of the ridge in monzonite R1C. BLM is fine grained at pit, rather sugary in texture, very low biotite content, and has some larger (⅛", ¼") blebs of qtz. Four bleached 4" X 4" claim posts (?) have been dumped about 45' N of the pit just over the NE crest of the

ridge. They bear no markings & appear to be at least a year old.

80. Ryte with calcite between grains forms cap on ridge. O/C has "blocky" appearance & weathers to gray color on surface ↗ 40° 39°

81. Gray non-calcareous silts ↗ 27° 40°

82. Notch in ridge. Rock (gray silts) appears very fractured.

83. Intercalated silts & chert. Chert or glyte becoming rusty to W up ridge. ↗ 43° 36°

84. Chert & ghyte with limonite on fractures. 077°/32° Dark grey silts occurs in float

85. Creek draining tiny lake & pond in cirque has cut nearly vertical canyon through BLM along the following well defined joint systems: 024°/81° 080°/103°

BRAVO #4. June 23/77

Zinc and moderate tungsten geochem occurs in the south branch of the creek in the NE portion of Photo A11370-357.

According to the 4 mile map this creek should be within the Seagull batholith. If we expect to find tungsten or zinc we should look at the sedimentary sequence to the south of the batholith.

It is suggested a camp should be established in the pass SW of the creeks sampled which will give access to a relatively large area.

We should however expect to have at least two camps in this general area and as we have no geochem information from the SW portion of this whole photo area there is an extensive silt sampling job.

Tungsten geochem - rather spotty - occurs along the valley showing on the east edge of this photo so the NE trending ridge warrants close examination.

Cam

PHOTOS SUPPLIED A11370 357, 359
A11370 376, 378, 380

FROM BRAVO #2 A11536 409, 411

Slope up & Slope down seem to me to be redundant. These shots were printed by Chimex - not designed by us.

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: BRIAN ATKINSON

AREA: BREWIS #4 DORSEY LAKE

FIELD MAP: AIR PHOTO #A11370-378

DATE:

RESULTS PLOTTED BY:

POSTING MAP:

DATE:

ANALYST:

METHOD: (A):

(B):

DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
															Field Tests			Lab. Tests							
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
B258		X	X	X	X	X							X												
B259				X	X	X		X	1'	1"	H														
B260			X	X		X		X	1'	6"															
B261				X		X		X	1'	1"	H														
B262		X	X	X	X	X		X	2'	1"	H														
B263				X	X	X		X	3'	9"	H														
B264				X	X			X	2'	3"	H														
B265	Small Trickle			X	X	X		X	1'	1"	M														
B266		X	X	X	X	X		X	10'	1"	H														
B267				X	X			X	3'	6"	H														
B268		X	X	X	X	X		X	3'	3"	H														
B269				X									X												
B270		X			X			X	1'	3"	M														
B271					X	X							X												
B272					X	X							X												
B273	under Talus			X		X		X			H														
B274	under Talus			X	X	X	X	X			H														
B275	small seepage			X	X			X			L														

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: BRIAN ATKINSON
AREA: BRAUD #4 DORSEY LAKE
FIELD MAP: AIR PHOTO A11370-378
DATE: JULY 9th

RESULTS PLOTTED BY:
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER 77DC-	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
															Field Tests			Lab. Tests							
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Cu	HM		Mo	Cu	Pb	Zn					
B229		X	X	X	X			X	6'	1'	M														
B229		X	X	X		X		X	6'	1'	M														
B230			X	X	X	X		X	2'	3"	M														
B231		X	X	X			X		12'	6"	H														
B232		X	X	X				X	8'	6"	H														
B233		X	X	X				X	15'	6"	H														
B234			X	X				X	2'	9"	H														
B235		X	X	X				X	6'	1'	H														
B236		X		X		X		X	2'	6"	L														
B237				X	X	X		X	1'	3"	M			X											
B238				X		X			2'	3"	M														
B239				X		X		X	5'	4"	H														
B240		X	X	X		X		X	2'	6"	H														
B241		X	X	X		X		X	4'	2"	H														
B242		X		X		X		X	1'	3"	H														
B243								X	3'	3"	H														
B244		X		X	X	X		X	1'	2"	H														
B245		X		X	X	X		X	3'	6"	M														
B246		X		X	X	X		X	3'	4"	M														
B247				X		X		X	1'	2"	H														
B248				X	X			X	1'	2"	H														
B249				X	X	X		X	1'	1"	H														
B250		X		X	X			X	2'	1"	H														
B251				X	X	X		X	3'	1"	H														
B252				X	X	X		X	20'	6"	L														
B253	Igneous contact	X	X	X			X		4'	1"	H														
B254				X	X	X		X	1'	1"	H														
B255		X	X	X		X		X	4"	1"	H														
B256		X		X	X	X		X	1'	1"	H														
B257		X	X	X		X		X	1'	2"	H														

CHEMEX LABS LTD.
SOIL SAMPLES

COLLECTOR: BRIAN ATKINSON
AREA: PHOTO # A11370-357
FIELD MAP:
DATE: JULY 2 -

RESULTS PLOTTED BY:
MAP:
DATE:

ANALYST:
METHOD: H.M:
CU. :
DATE:

SAMPLE NUMBER	SAMPLE LOCATION	NOTES	TOPOGRAPHY					VEGETATION					SOIL DATA						FIELD SCREENED	VALUES				
			VALLEY BOTTOM	SLOPE UP	SLOPE DOWN	HILL TOP	LEVEL GROUND	HEAVILY WOODED	SPARSELY WOODED	BURNT	LOGGED	GRASSLAND	HORIZON SAMPLED	THICKNESS OF HORIZON	HORIZON DEVELOPMENT: GOOD	HORIZON DEVELOPMENT: POOR	PARENT MATERIAL: DRIFT	PARENT MATERIAL: BEDROCK		Mo	Cu	Pb	Zn	
77DC																								
W-29						X	X		X				B	6"										
W-30						X	X					X	B	6"										
W-31					X							X	B	6"										
W-32					X							X	B	6"										
W33						X						X	B	8										

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS: T.O. FLETT
AREA: BRAVO #4
FIELD MAP: AIR PHOTO A11370~357
DATE: 7/9/77 TO

RESULTS PLOTTED BY:
POSTING MAP:
DATE:

ANALYST:
METHOD: (A):
(B):
DATE:

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Field Tests			Lab. Tests							
															Cu	HM		Mo	Cu	Pb	Zn				
7/9 77DCB150	MONZ. O/C			X		LOW		X	1'	5"	MED														
7/9 77DCB151	OUTLET FROM POND MONZ. O/C		X	X		LOW		X	4'~5'	1"	MED														
7/9 77DCB153	SILT FROM ROOTS UNDER MOSS			X		PROBABLY HIGH		X	10'	<1"	LOW														
7/3 77DCB156	INLET TO LAKE	X	X	X		LOW		X	5'	1'	MED														

CHEMEX LABS LTD.
SOIL SAMPLES

COLLECTOR: T. O. FLETT
AREA: BRAVO #4
FIELD MAP: AIR PHOTO A11370-357
DATE: 7/9/77 TO

RESULTS PLOTTED BY:
MAP:
DATE:

ANALYST:
METHOD: H.M:
CU.:
DATE:

SAMPLE NUMBER	SAMPLE LOCATION	NOTES	TOPOGRAPHY					VEGETATION					SOIL DATA						FIELD SCREENED	VALUES				
			VALLEY BOTTOM	SLOPE UP	SLOPE DOWN	HILL TOP	LEVEL GROUND	HEAVILY WOODED	SPARSELY WOODED	BURNT	LOGGED	GRASSLAND	HORIZON SAMPLED	THICKNESS OF HORIZON	HORIZON DEVELOPMENT: GOOD	HORIZON DEVELOPMENT: POOR	PARENT MATERIAL: DRIFT	PARENT MATERIAL: BEDROCK		Mo	Cu	Pb	Zn	
7/9	77DCW148	CAMP B4	LATRINE				X	X		X	SPRUCE		B	?	X		ALLUVIUM							
7/9	77DCW152	" "					X			X			B+C			X		X						
7/11	77DCW154	" "	GOSSAN on SITE.				X			GRASS			B+C	?		X		X						
9/11	77DCW155	" "	ANIMAL BURROW				X					X	B	?	X			X						

CHEMEX LABS LTD.
STREAM SEDIMENTS – WATER

COLLECTORS:..... RESULTS PLOTTED BY:..... ANALYST:.....

AREA:..... POSTING MAP:..... METHOD: (A):.....

FIELD MAP:..... DATE:..... (B):.....

DATE:..... DATE:.....

SAMPLE NUMBER	NOTES	SEDIMENT DATA					STREAM DATA						DRY GULLY	SPRING	SEDIMENT RESULTS								WATER RESULTS		
		Gravel	Sand	Silt	Clay	Organic	Bank	Active	Width	Depth	Velocity	pH			Field Tests			Lab. Tests							
															Cu	HM		Mo	Cu	Pb	Zn				
EAST OF PINE L BAR 427 105	77 DCW 101 Light brown 6 to 8" Leep horiz.		✓			low																			
	77 DCB 101 Some organics from "A" horiz.							X	6'	6"	MED.														

Bottom of O/C

1. Med grained gby. mony. pegmatite with flds. phenocrysts up to 1" diam. Intds appears fairly well sauss. & MoS_2 & sauss appear to permeate into the rock from fractures. Rock is sheared e.g. a 1" flds phenocryst was offset approx ½". Rock may be more mafic than mony. Phenocrysts appear to be K-flds. but occasionally plag. striations are in evidence.

up to not

2. 60' of very fracture

oxidized many. (?)

3. Med. grained gty many pods ab appears somewhat fresher & harder. Some silicification along fractures. 60'

4. float with "Aleurich chill zone" rock. Fine grained cream colored hornfels with biot. (?) & andalusite (?) Limonite halo around biot. grains. — metasediments —

STA. 33

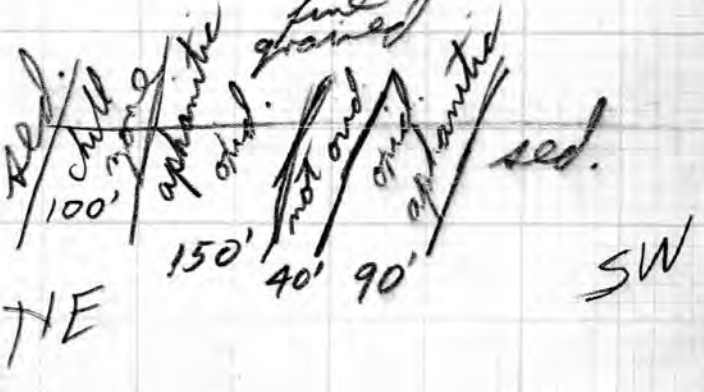
100' of "chill zone"

150' Black, aphanitic serpentinized trap rock with red Fe

oxide on all exterior surfaces. Possibly fine grained pyroxenite or peridotite (?).

40' more of the same highly serpentinized but no Fe oxide.

90' more of the same. oxidized on fracture surfaces. Fairly high Fe_3O_4 content.



STA. 32

NE to SW

granite gneiss

qtzite

qtz. amphibolsch.

Gossan between STA 31 & 32 is in fractured sch

Sent Out at

77DC W~15 ~ W24
B31 ~ B63
B6 ~ B~30
W11 ~ W13
~~W102, 103, 105, 107,~~
~~110, 111~~

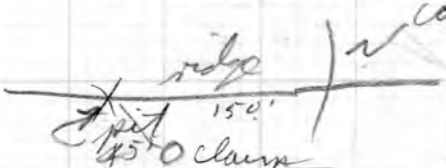
77DC ~~W~1 - W10~~
~~W 101~~
~~B 101~~
B1 ~ B9

List all that are not on this list.

7/13/77

BRAVO #4

79. Contact between BLM & gyp. or chert in R/C. Shallow pit in R/C 150' to on ridge top. No O/C exposed. 4 blazed unmarked 4"x4" claim posts 45' to of pit.



interbedded chert + silts

88 paces Sed. have
X6
528' "blocky" appearance

Weather gray on
exterior. White with
calcite between
grains. 114
39

125 paces
6
750' Gray SLTS. Not
calcareous 127
40°

98 paces at notch
6
588' ridge Still
gray SLTS

175 paces from notch
6
1050' ridge turning right
from notch to here
interbedded SLTS &
chert

27 paces Rusty chert/
6 gyzite 113°
162' 36°

---

80 paces to last
6 soil sample from
480' prairie dog hole

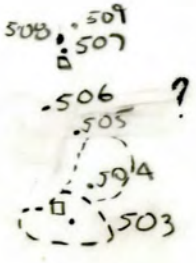
---

156 W 077°/K° Chert &
32 gyzite
with lim. or fractures
Dark gray slts in
float!

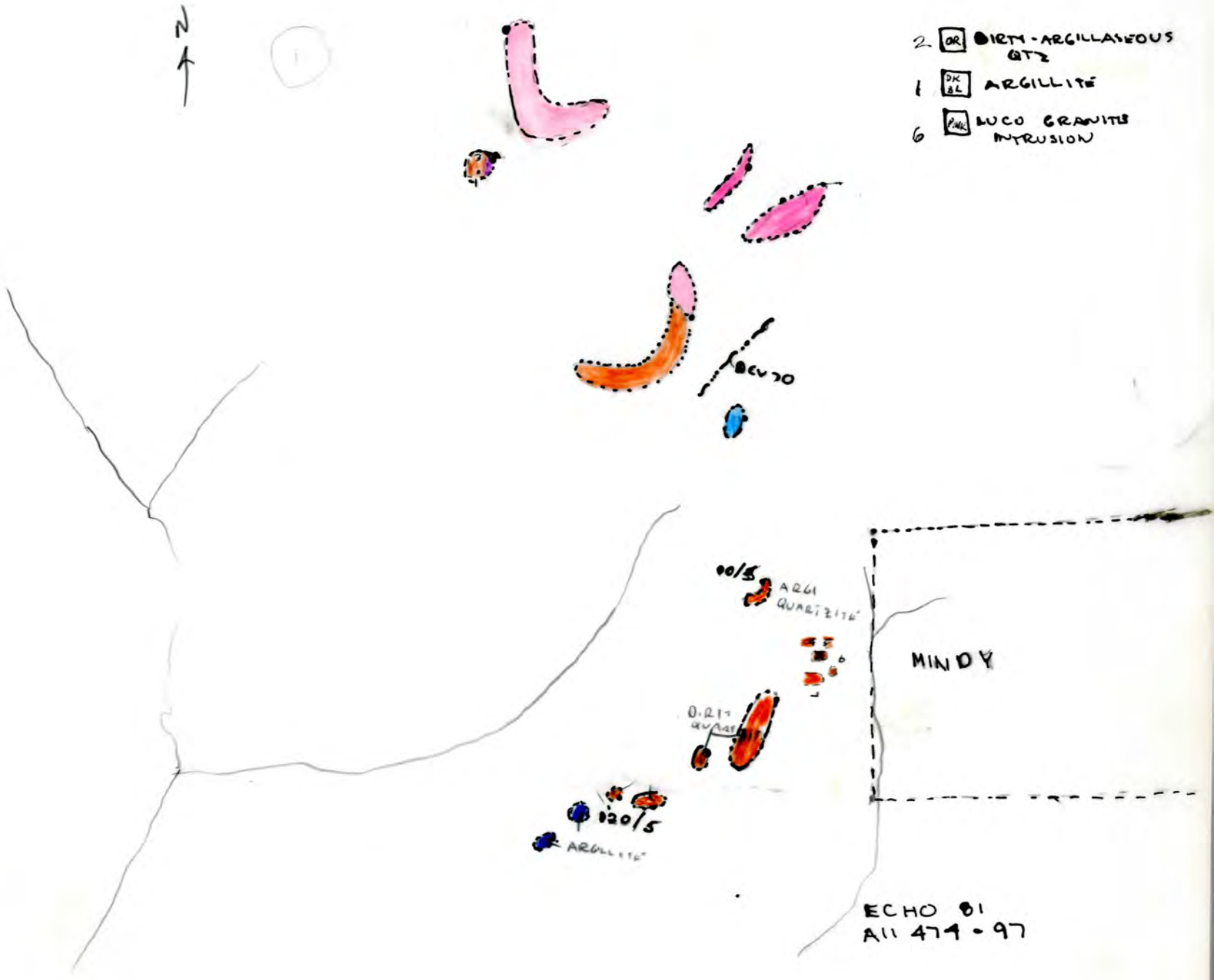
Last ~ Creek has
cut ravine with nearly
vertical walls through
BLM along following
joint syster. 024°/91 84°/103°

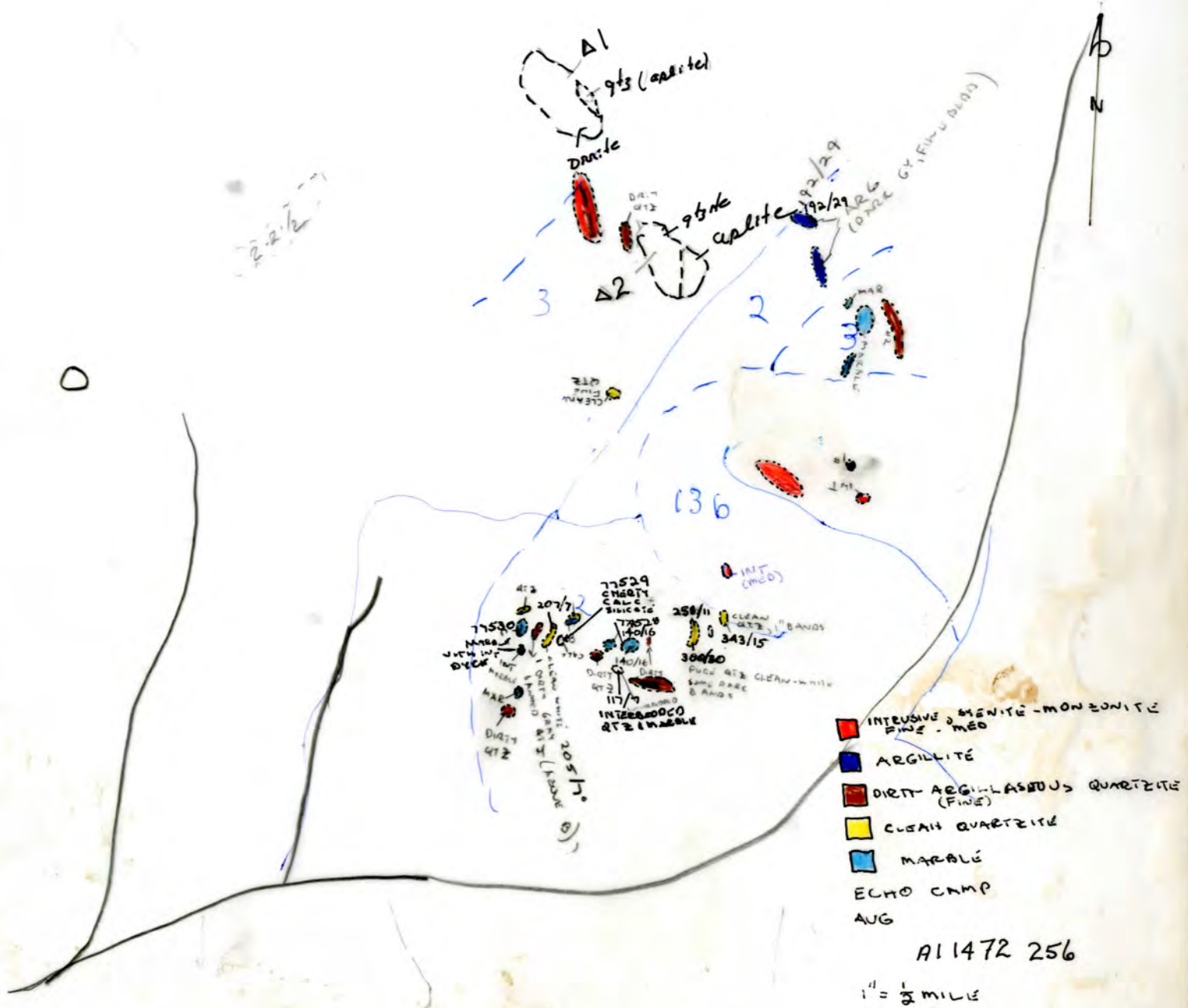
N

(23) 46188 (24) 46189
(21) 46186 (22) 46187
(19) 46184 (20) 46185
(17) 46182 (18) 46183
(15) 46075 (16) 46076
(13) 46073 (14) 46074



ECHO 91
A1:474 - 99


N
2. OR DIRTY - ARGILLACEOUS QTZ
1 DK BL ARGILLITE
6 PINK LUCO GRANITE INTRUSION
DCV 30
00/5
ARGI QUARTZITE
MINDY
D.RI QUART
020/5
ARGILLITE
ECHO 81
A11 474 - 97


Δ1
qtz (calcite)
DRAIN
qtzite
Δ2
3
2
136
N
INTRUSIVE SYENITE - MONZONITE FINE - MED
ARGILLITE
DIRTY ARGILLACEOUS QUARTZITE (FINE)
CLEAN QUARTZITE
MARBLE
ECHO CAMP
AUG
AI 1472 256
1" = 1/2 MILE

60°15'

131°30'

SEAGULL

SKETCHED FROM 4 MILE MAP

BATHOLITH

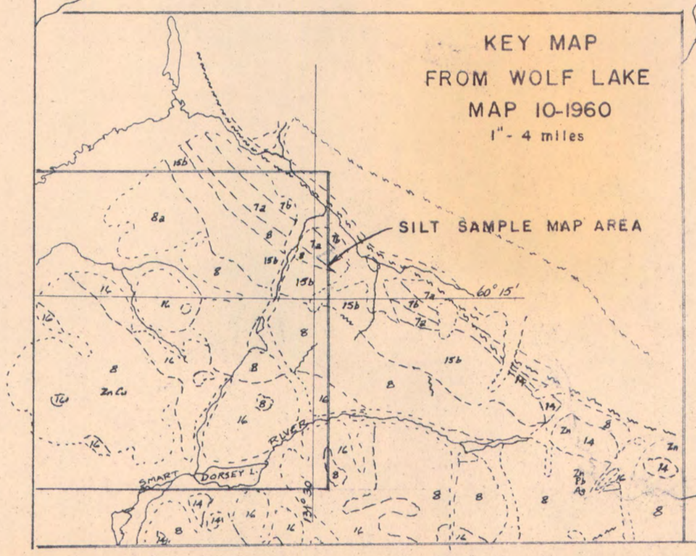
SMART

RIVER

DORSEY LAKE

Jim Douglas
Vicki Douglas

KEY MAP
FROM WOLF LAKE
MAP 10-1960
1" - 4 miles



LEGEND

10 Qtz feld porph, Andesite, Dacite

3 Granite, Monzonite, Monz. porphyry

78 Argillaceous Slate, Sandstone

742½ Micaceous Quartzite, Schist, Gneiss

37 Limestone

26,120,2,<0.5,5 Cu, Zn, Mo, Ag, W Silt sample

D C SYNDICATE

DORSEY LAKE AREA

SILT SAMPLE RESULTS

AND GEOLOGY

105 B 4&5

SCALE 0 ½ mile 1 NOV. 1976 FEB 1977

CAMP BRAVO FIGURE II

60° 15'

131° 15'

RAM STOCK

SKETCHED FROM A MILE MAP

HIDDEN LAKE

GENERAL AIR MAG TREND

SMART RIVER

MUNSON LAKE

3616

RESULTS DUE TO PLACER TYPE DEPOSITION ??

MAIN ANOMALOUS TUNGSTEN AREA

SEAGULL BATHOLITH

SKETCHED FROM A MILE MAP

LEGEND

3a Ultra Basic Intrusive

3 Granodiorite

37 Limestone

37a Dolomite

78 Argillaceous slate, phillite

78a Cherty argillite, chert.

x 10, 120, 2, 6 Silt Sample Cu, Zn, Mo, W, ppm.

D C SYNDICATE

MUNSON LAKE AREA

SILT SAMPLE RESULTS

AND GEOLOGY

105 B-3

SCALE: 1" - ½ MILE

FEB 1977

CAMP BRAVO