

GRASSROOTS PROSPECTING PROGRAM 1992

FINAL SUBMITTAL

DECEMBER 14, 1992

GEOFF RUSHANT

CARCROSS, YUKON

92-048

Report and Appendices : Michie Creek

Map Sheet

Report and Appendices : Bennett Lake

Diary

Expenses

Receipts

FINAL REPORT ON PROSPECTING BY GEOFF RUSHANT
ON THE MICHIE CREEK MAP SHEET 105D/9

UNDER THE YUKON MINING INCENTIVES PROGRAM AGREEMENT
1992-048

PREPARED BY GEOFF RUSHANT AND KELINDA SAX, B.Sc.
7 DECEMBER 1992

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LOCATION

NORTH AND SOUTH WORK AREAS

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- 1 Hawk Eye g
- 2 Acme claim
- 3 Midnight g
- 4 Hidden Ore
- 5 Buffalo Hui
- 6 Wheaton M
- 7 Tally Ho gr
- 8 Gold Reef c
- 9 Dail Creek
- 10 Lucky Boy
- 11 Legal Tend
- 12 Mount And
- 13 Mount Rec
- 14 mascot gro
- 15 Big Thing r
- 16 Jean claim
- 17 Montana n
- 18 Joe Petty c
- 19 Uranus cla
- 20 Thistle cla
- 21 Aurora cla
- 22 M and M c
- 23 Vault mine
- 24 Venus min
- 25 Dail and F

Antimony

- 26 Becker Coc
- 27 Fleming cl
- 28 Goddell's c
- 29 Chieftain t

Silver-Le

- 30 Idaho Hill
- 31 Export gro
- 32 Cariboo gr

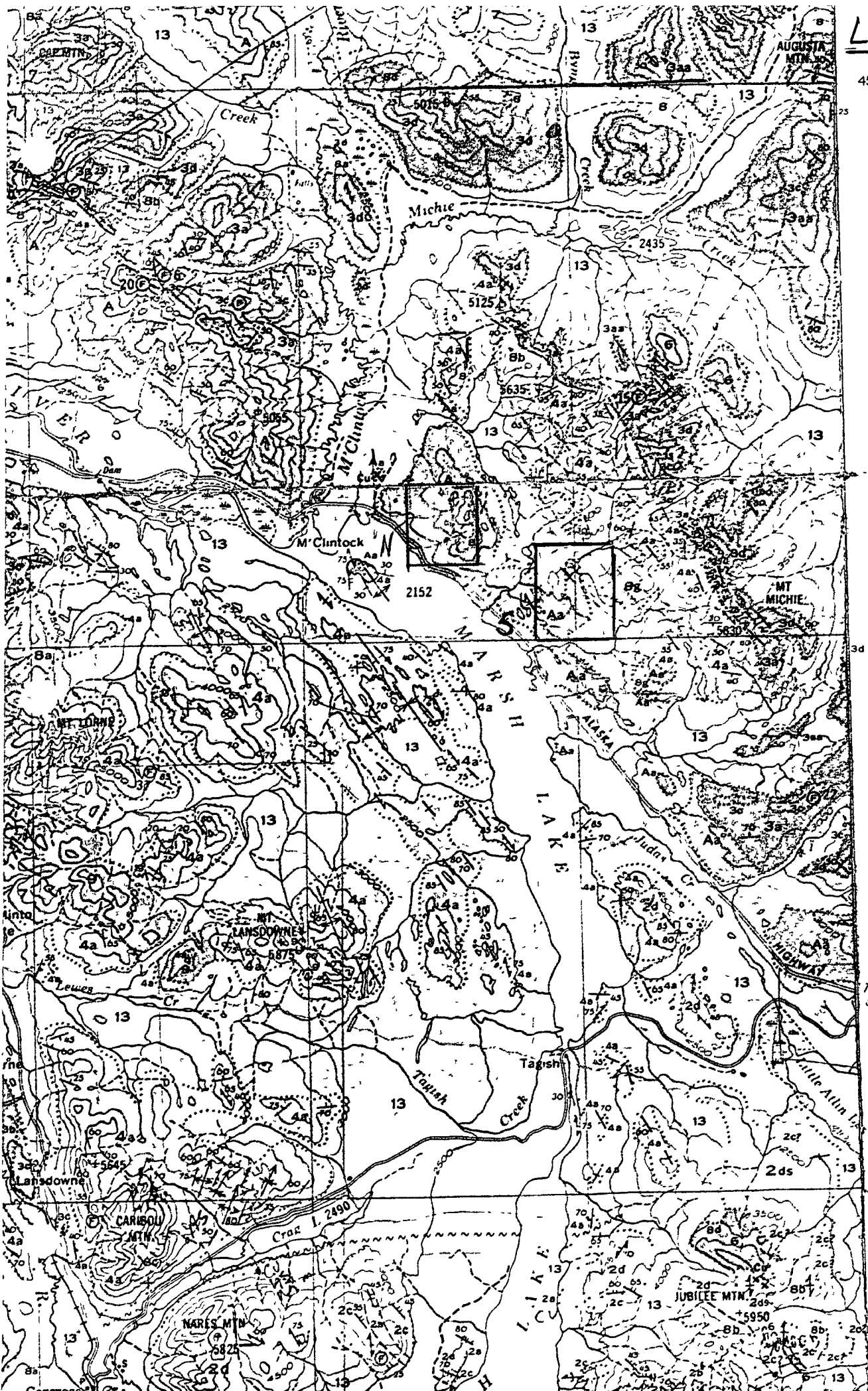
Copper

- 33 Arctic Chi
- 34 Gaffer mi
- 35 Best Chan
- 36 Pueblo mi
- 37 War Eagle
- 38 Anaconda
- 39 Copper Ki
- 40 Valerie mi
- 41 Fleming g
- 42 College Gr

Coal

- 43 Whitehors
- 44 Mount Bu

105 D/8



INTRODUCTION

This grassroots prospecting program was undertaken in five trips to two areas on the Michie Creek map sheet, 105D/9, located immediately north of Marsh Lake.

The two areas of interest are in an inferred belt of N-S and NW-SE trending major structures, with several mineral occurrences. It is mapped as 'metavolcanics with minor intrusives in the north area, and as metavolcanics with syenite porphyry in the south area. Both areas have minor interbeds of clastic rocks.

Previous work has indicated the potential for gold and/or base metal mineralisation in these areas.

OBJECTIVE

Due to the thick overburden cover, the primary objective was to find as much outcrop as possible, and to find an effective sampling method for areas where no outcrop exists. Emphasis was placed on areas with airborne geophysical anomalies.

GEOGRAPHY AND ACCESS

The area is bordered on the south by Marsh Lake and the Alaska Highway, on the east and north by a series of syenite and granite plugs, and on the west by the M'Clintock River. Outcrop is extremely limited due to thick alluvial deposits.

Access off the Alaska Highway is provided by a tote road that follows Greyling Creek. The North Area has been called Area A in the interim reports, and it is located NW of Greyling Creek and centered on a small pothole lake. The South Area has been called Area B in the interim reports, and it is located SE of Greyling Creek, in the vicinity of Caribou Lake.

GEOLOGY

The general geology of this area is reported on Map 1093A, published by the GSC. The volcanic rocks are of uncertain age, and are variably metamorphosed. These are followed by Jurassic clastic rocks consisting of argillites, cherts, and greywackes. To the NE, these rocks are underlain by similar Triassic rocks which also host volcanic flows, and all are intruded by granitic rocks.

NORTH AREA

In the few outcrops surrounding a small lake, diorite in contact with argillite was noted in a shear zone. The diorite

has been extensively altered and its exact composition is unknown.

SOUTH AREA

Metavolcanics, argillite, and chert follow a N-S trend, and appear to be crosscut by trachyte dikes, and intruded by syenite porphyry.

BOTH AREAS

Apparent N-S geographic features seem to represent geologic features. Low ground is covered with glacial overburden and swamp, and gullies are filled with frozen organics.

WORK

Work consisted of prospecting, sediment sampling of silt, sand, and moss mats, soil sampling of basal tills and residual soils, and hand trenching.

AREA	TRAVERSE	DATE	DAYS
N	A-1	15-18 June 92	4
S	Mars	23-28 June 92	6
S	MJ	25-28 July 92	4
S	CA	25-30 August 92	6
N	A-2	14-18 September 92	5

NORTH AREA

Sampled area of a magnetic high/low contact at a base of slope, and upslope of a gold anomaly within the magnetic anomaly. Hand trenching around the lake followed.

SOUTH AREA

Most soil samples taken initially were not analyzed as most of the ground appeared to be covered with deep overburden. Subsequent prospecting tentatively identified areas of thinner overburden where soil sampling may be useful. Prospecting also found outcrops of metavolcanic rocks with quartz veining, and trachyte and syenite intrusions. Eight claims were staked east of Caribou Lake to cover a portion of the airborne geophysical anomaly, and outcrops with quartz veins, two with gold anomalies in soils downslope.

BOTH AREAS

Samples of rock outcrop and float were taken to determine glacial transport directions, if possible. Rocks are pyritic, sheared, altered, and contain quartz stringers and veins with associated listwanite (mariposite).

RESULTS

Relative differences in metal values and gold anomalies indicate that sampling of basal tills on slopes may work to

outline local bedrock sources of mineralization.

NORTH AREA

A northerly trend on mineralization is indicated in the gold, arsenic, and antimony anomalies, accompanied by variable amounts of copper. Minor free gold was discovered in the creek, however, this may be transported instead of local gold. Anomalous gold values are also found in quartz altered volcanic rocks within a sheared area estimated from hand trenching to be about ten meters wide. A suspected source of the gold is vein emplacement along N-S structures, associated with arsenic and antimony.

SOUTH AREA

Wide spaced sampling of basal tills resulted in two gold anomalies along the eastern base of slope, with minor silver and nickel, and a weaker antimony and bismuth association. Arsenic and zinc have higher relative numbers upslope. Prospecting turned up areas of quartz veining along a NW trend and in the vicinity of syenite intrusions. Sediment samples returned anomalous gold values in four areas.

CONCLUSION

The initial grassroots exploration of this area has produced some promising results. Mineralization events have occurred throughout this belt of rocks, but they have been investigated very little, probably due to the depth of overburden.

Further work should include detailed prospecting on close spaced traverse lines to take advantage of what little outcrop is available, and soil sampling at depth, with a plugger or auger, to reduce the possibility of transported anomalies masking the true geochemical signature.

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AREA II

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Geology

MC Sample and Traverse Locations

CR Sample Locations

Sample Descriptions

Lab Report



Introduction MC and CR Projects

This project was undertaken in the Bennett Lake Caldera, an Eocene volcanic complex consisting of ignimbrites, rhyolite and andesite flows and breccias and porphyritic granitic intrusives marking ring fractures on the circumference of the complex.

Two trips were taken to different areas; MC and CR. The primary targets were precious metal veining in connection with structures inferred by previous work and mapping projects. The program was hampered by early snowfalls.

Work History

Known showings in the area are quartz veins with Au, Ag, +/- Pb, Cu, Zn, and As values, occurring with structures in ignimbrites, tuff, breccias and flows of the Bennett Lake Caldera Complex. These were explored in the late 1980's.

My prospecting in the area last year turned up epithermal type quartz veining (vuggy net textured) and numerous quartz/rhyolite breccias. Only slightly elevated Au, Ag, As and Sb values were encountered in vein material from the MC area and elevated Ag, Pb and Zn values in altered rhyolite tuffs of breccias in the MC3 area. Location of these on map in appendix.

Terrain and Access

The Bennett Lake Caldera Complex is mainly steep rugged mountains cut by glacially scoured creek valleys. The ground below 4000 feet is mainly heavy subalpine growth cut by talus slopes and colluvial overburden to the break in slope which occurs between 3500 - 4500 feet in the work area.

Access was gained on foot with pack dogs. Most work was done at or below the break in slope. Boat access is to the west end of West Arm from Carcross.

Summary MC Area

Introduction

The objective of the trip was to explore in the vicinities of quartz veining and float located and sampled last year. The areas were found to be snow covered with several more inches coming down during the trip. Traverses undertaken over three days were mainly focused on studying float as the steeper slopes were hard to travel on.

Some samples of float material not previously encountered were collected, traverses and locations of samples appear on location map in Appendix. Sample descriptions and geochem lab report are also included in Appendix. Results from previous prospecting are also discussed as they augment what little was found on this trip.

Work and Results

The SZ area where quartz veining material occurs on a flat rubbly plateau was too snow covered to find anything.

NE striking veining on the MC zone was found to follow the contact of ignimbrite and rhyolite tuff/breccia. The contact and structure as mapped and found during previous work strikes across a steep slope towards the west end of the MC3 zone. A traverse across the base of the slope turned up several rock types of interest. Descriptions are in Appendix. Quartz vein material returned values similar to those encountered before: only elevated Ag, Au, As and Sb. Two samples of altered rhyolite tuff/breccia unlike others sampled before were collected from the vicinity of previous samples.

MC-03 float has anomalous Au with lesser Pb, Zn and As. Although not much material was found, other greenish quartz breccias have been noted in the area. Previously collected samples have anomalous Ag, Pb and Zn values.

MC-92-1 has slightly anomalous values; of note is similar floured quartz veinlets and cross cutting fractures, sometimes rusty as with previously sampled material in MC3 area. Similar float was found on the south side of MacAuley Creek. In the same vicinity as MC-92-2 a representative sample of some boulders of quartz chalcedony. This material returned values similar to other quartz veining sampled; only elevated Au, Ag with As and Sb.

Conclusion

The mineralized showings found in the area to date have been relatively small; associated quartz chalcedony veining and mineralized breccias and tuffs. The source of the greenish breccias on the MC3 zone should be investigated. Although the MC-92-1 type rock has only minor values, it was found in two fairly wide spread locations and occurs at the apparent confluence of fault contacts. This area is overburden and scree covered; detailed prospecting may turn up further mineralization

Summary CR Area

Introduction

The objective was to explore a canyon on Crozier Creek, a deeply incised, faulted contact between a quartz eye, variably rusty granite and a volcanic conglomerate (breccia) or ignimbrite.

The program consisted of collecting pan concentrates with a small backpack sluice and prospecting the wall rock in the canyon. Access on foot was mainly in the creek.

Work and Results

An Au vein was reported found during work in 1989. Minor Au colours and lots of black sand were panned from below the canyon last year. Ten rock and seven pan concentrates were collected and analyzed for Au+9 and Au+6 elements respectively. Sample descriptions, locations and lab reports are in Appendix.

Five pan concentrate samples were obtained at intervals up the creek below each vein encountered. The strike of these veins was generally NNE across or into the creek. Similar pan concentrates were obtained at the mouth of two other creeks draining into West Arm for comparison to canyon samples. The bulk of the black sand is magnetite.

The veining found was all in NE structures within weathered quartz eye granite. Mostly quartz fluorite +/- calcite stringers. Two sub parallel steeply dipping veins of the same material were sampled across 1.5 M.

The most common float vein material in the creek is a milky white quartz with a soft platy lime green mineral often as boulders. No outcrop source was located.

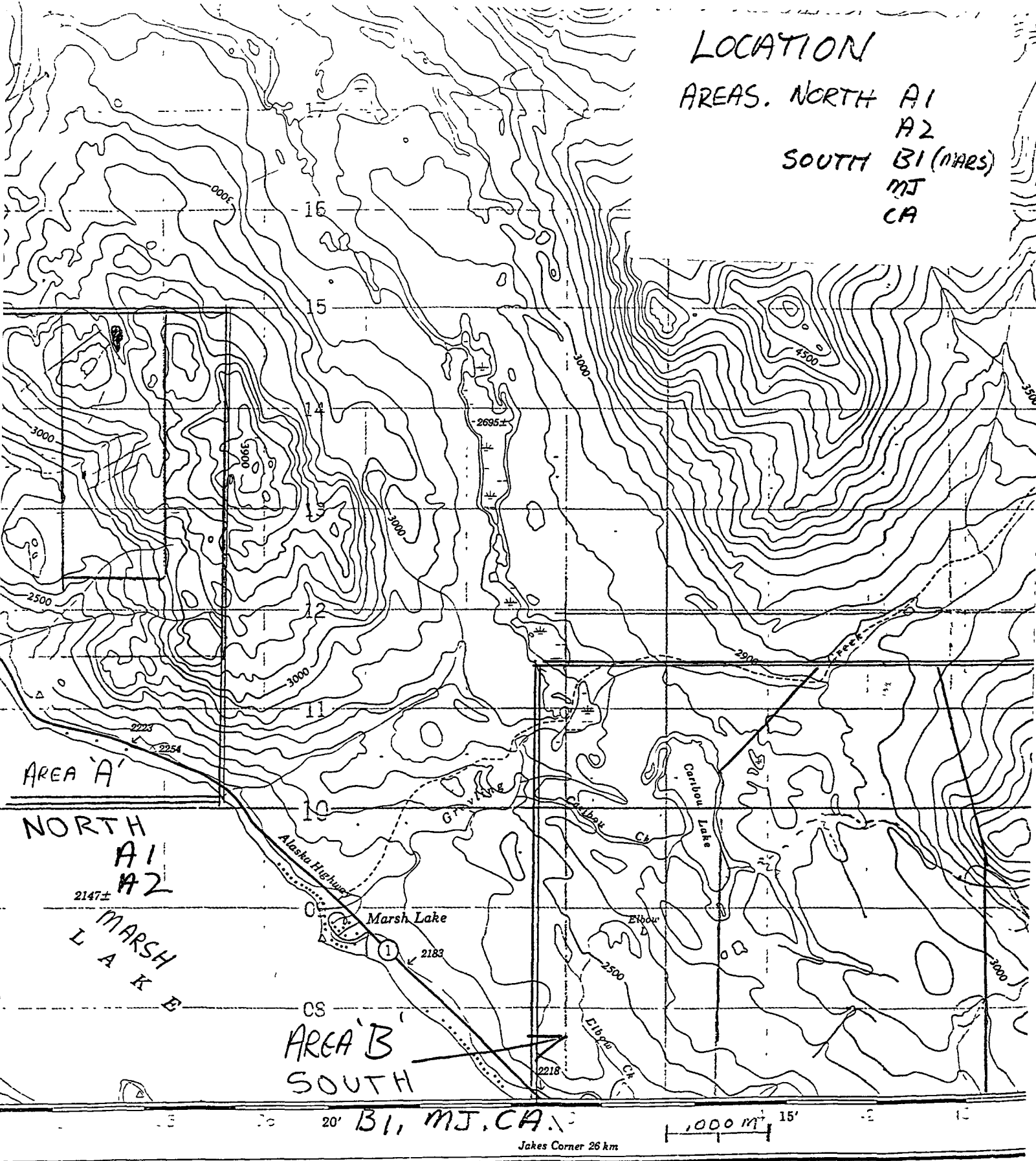
Conclusion

Values overall were not high. The one anomalous Au in pan concentrate value is from below a vein with anomalous Au values (688 ppb). Two other samples of similar quartz fluorite veining also had anomalous Au values (to 1151 ppb). Elevated Pb, Zn and minor As was also encountered. Although geochem results were relatively low the amount of quartz veining and quartz float would indicate the possibility of further Au bearing veining being exposed elsewhere in the canyon.

The NE trending veining exposed in the canyon could be part of a longer mineralized trend along NE striking radial fractures of the caldera.

LOCATION

AREAS. NORTH A1
A2
SOUTH B1 (MARSH)
MJ
CA

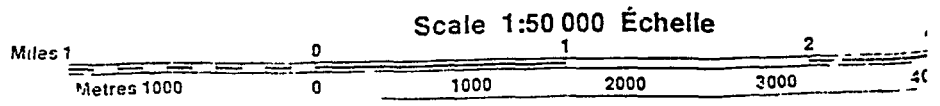


105 D/19

MICHIE CREEK YUKON TERRITORY TERRITOIRE DU YUKON

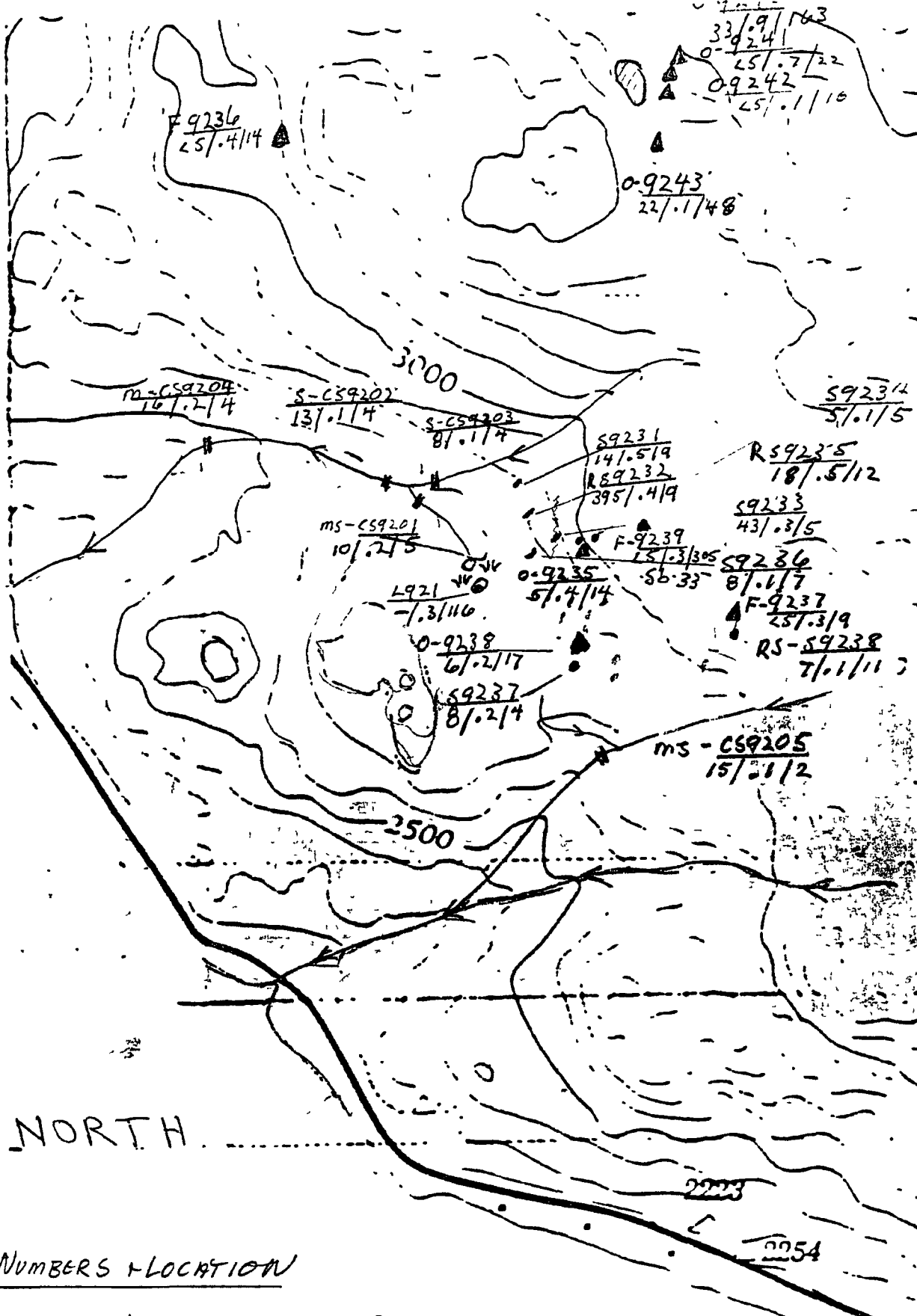
Route.
re. etement dur
re. etement dur
a. av. er agglomere, toute saison
ce. av. er temps sec
e. nor. classee ou rue
cete re
ser. t. er. percée ou portage

dual highway	more than 2 lanes
ac. de chaussee	plus de 2 voies
2 lanes	less than 2 lanes
2 voies	moins de 2 voies
2 lanes or more	less than 2 lanes
2 voies ou plus	moins de 2 voies





APPENDIX A
MICHIE CREEK



AREA 'A' NORTH

SAMPLE NUMBERS + LOCATION

SAMPLE VALUES AU / Ag / AS

500 M

- ▲ Rock
- Soil
- || Sed
- o - outcrop
- f - FICAT
- L - Lake sediment
- RS - Residual / soil
- m - moss
- s - SILT

1A

B1

13 Jul-92 date

Assay Certificate

Page 1

Goett Rushant

WO #13618

Sample # Au ppb

9235	5
9236	<5
9237	<5
9238	6
9239	<5
9240	93
9241	<5
9242	<5
9243	22

NORTH AREA - A 1

10106	7
F1A	6
2401	31
231	5
232	7
26NR1	<5
WL410	31
WL400	6
SL14A	13
SL14B	39

SOUTH AREA - B 1

S9231	14
S9232	395
S9233	43
S9234	5
S9235	18
S9236	8
S9237	8
S9238	7
L921	unable to fuse

CS9201	10
CS9202	13
CS9203	8
CS9204	169
CS9205	15

NORTH AREA - A 1

SC231	<5
SC233	<5
MC233	7
27W-5	10
GCB-1	14

SOUTH AREA - B 1

Certified by *Chyokki*

AB



13-Jul-92date

Assay Certificate

Page.

Goeff Rushant

WO #13619

Sample # Au ppb

GCB-2	402
GCM-2	132
GMC-2	14
S2403	1005
SC2404	1631
MC2404	11
MC2513	25
MC2601	7
MC2603	17
MC2604	9
NC2603	>6667
SC2602	27

SOUTH AREA-B

Certified by *Chyoki*

AB



JUL-16-1992 12 25



Northern Analytical Labs. Ltd.

FILE # 92-1801

Page 3



SAMPLE#	No ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Ca ppm	Sb ppm	Bi ppm	V ppm	Ce %	La ppm	Cr ppm	Mg %	Ba ppm	Al %	S %	K %	Na ppm		
13618 231	1	191	8	82	3	192	37	931	5.00	210	5	ND	1	997	6	2	2	46	11.04	112	3	49	4.97	68	01	8	.29	1	.11
13618 232	1	14	6	10	3	1679	74	738	4.95	18	5	ND	1	21	2	2	2	17	.33	003	2	505	17.82	40	01	9	.06	1	.04
13618 2401	14	48	7	49	3	54	9	145	2.25	8	5	ND	6	18	2	2	7	81	.37	005	12	169	.89	494	17	11	1.05	1	.12
13618 9235	2	69	22	59	4	9	14	904	3.95	14	5	ND	2	172	5	2	2	101	15.41	049	9	46	1.09	24	08	2	1.77	1	.02
13618 9236	1	78	34	55	4	25	23	1029	4.57	14	5	ND	2	497	2	2	2	21	8.08	101	10	38	2.03	71	01	7	.52	1	.21
13618 9237	1	10	4	17	3	2245	105	986	5.76	9	5	ND	1	34	2	3	2	20	3.71	004	2	1085	15.19	103	01	17	.37	1	.01
13618 9238	3	87	19	39	2	11	9	413	4.00	17	5	ND	3	37	2	2	3	81	1.25	086	11	66	.91	181	17	6	1.73	1	.09
13618 9239	1	3	3	23	3	568	100	1203	6.58	305	5	ND	1	264	5	33	2	13	4.46	003	2	250	16.38	27	01	8	.15	1	.01
13618 9240	1	78	33	79	9	22	25	1349	4.88	163	5	ND	6	610	3	2	2	34	5.56	133	17	50	2.02	79	01	4	.75	1	.13
13618 9241	1	128	7	48	7	17	23	459	4.88	22	5	ND	1	57	2	5	2	113	1.45	051	3	35	1.35	41	26	16	2.59	1	.12
13618 9242	6	24	8	21	1	12	4	76	.66	10	5	ND	1	10	2	4	3	4	.08	008	5	187	.07	37	01	2	.14	1	.07
13618 9243	1	30	10	43	1	31	13	866	3.57	48	5	ND	1	381	2	2	5	57	7.23	045	6	50	1.48	52	02	3637	1.72	1	.05
13618 9241	46	47	6	71	3	13	3	89	.31	116	5	ND	1	148	2	7	2	5	3.06	049	3	5	.20	27	01	91	.20	1	.02
13618 92403	63	7	91	17	10	24	340	3.49	14	5	ND	5	30	2	5	6	5	75	.39	044	10	122	1.23	191	14	10	1.91	1	.18
13618 9231	1	33	11	43	3	63	13	381	3.00	9	5	ND	6	33	2	2	3	59	.52	026	15	81	.75	159	14	10	1.60	1	.16
13618 9232	1	13	11	42	3	52	11	329	2.79	9	5	ND	4	30	2	3	2	58	.48	018	10	74	.54	164	13	9	1.52	1	.14
13618 9233	1	12	6	39	3	34	7	273	2.33	5	5	ND	3	23	2	4	3	46	.38	028	9	52	.51	162	12	8	1.25	1	.07
13618 9234	1	16	7	32	1	39	6	175	2.01	5	5	ND	3	23	2	2	2	46	.37	039	10	53	.66	147	11	7	1.60	1	.03
13618 9235	1	36	12	78	5	75	17	832	3.13	12	5	ND	5	32	2	5	4	58	.56	053	13	90	.76	288	12	8	1.68	1	.10
13618 9236	1	54	8	40	1	61	11	425	2.24	7	5	ND	3	82	2	2	2	42	2.46	045	12	60	.81	143	08	15	1.20	1	.05
13618 9237	1	14	7	69	2	36	9	619	2.11	4	5	ND	5	22	2	2	3	39	.35	033	11	43	.42	254	09	6	1.29	1	.06
13618 9238	1	21	9	41	1	45	9	429	2.33	11	5	ND	2	27	2	2	2	47	.32	021	9	53	.47	236	09	5	1.77	1	.03
13618 CS9201	1	30	7	35	2	36	7	672	1.97	5	5	ND	4	71	2	2	2	34	1.03	051	11	45	.66	126	08	10	1.00	1	.05
13618 CS9202	1	13	5	31	1	32	6	167	1.50	4	5	ND	3	38	2	2	2	32	.64	050	12	40	.58	95	09	7	.82	1	.02
13618 CS9203	1	19	5	40	1	47	7	255	1.70	4	5	ND	3	43	2	2	3	34	.88	041	9	51	.77	120	09	7	.90	1	.03
13618 CS9204	1	33	11	48	2	42	7	497	1.71	4	5	ND	3	63	2	2	2	33	1.03	058	10	49	.72	139	09	11	.96	1	.05
13618 CS9205	1	38	5	35	1	32	7	975	1.76	2	5	ND	3	81	2	2	2	27	1.40	065	10	41	.59	142	07	12	.90	1	.04
13618 MC233	1	12	5	42	1	34	7	978	1.75	4	5	ND	5	62	2	2	2	30	.75	071	13	47	.59	142	07	5	.89	1	.04
13618 MC2404	1	11	3	47	1	27	7	1138	1.76	3	5	ND	5	54	2	2	2	29	.65	066	14	41	.57	138	07	5	.92	1	.04
13618 MC2513	1	26	5	61	1	45	6	247	1.78	2	5	ND	2	90	2	2	2	32	.97	075	13	45	.68	138	07	7	.95	1	.05
13618 MC2601	1	9	6	48	1	27	6	814	1.77	2	5	ND	7	50	2	2	2	31	.67	076	20	42	.53	124	08	5	.89	1	.05
13618 MC2603	1	34	10	78	3	52	9	1445	2.56	42	5	ND	3	207	3	2	2	30	2.31	096	11	44	.82	286	05	13	1.23	1	.11
13618 MC2604	1	44	8	39	1	39	5	338	1.48	2	5	ND	1	434	4	2	2	16	3.90	101	7	51	.55	243	03	21	.71	1	.05
RE 13618 MC2404	1	14	5	46	1	29	7	1170	1.89	4	5	ND	6	62	2	2	2	31	.75	073	15	45	.60	145	08	4	.98	1	.06
13618 MC2603	1	27	7	60	2	47	8	850	2.53	5	5	ND	5	148	2	2	2	34	1.66	085	14	52	.78	246	07	9	1.23	1	.11
13618 SC231	1	25	6	41	3	91	9	678	2.06	6	5	ND	4	263	3	2	2	31	6.61	100	10	50	1.23	176	06	26	.99	1	.10
13618 SC233	1	10	5	39	1	35	7	637	1.65	3	5	ND	5	51	2	2	2	29	.70	062	12	46	.62	116	07	5	.87	1	.05
STANDARD C	17	58	37	132	7.4	71	32	1040	3.96	42	18	7	38	52	19	13	19	55	.48	090	37	58	.88	176	09	35	1.87	1	.16

Sample type: PULP. Samples beginning 'RE' are duplicate samples.



AQM ANALYTICAL																														
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	B ppm	Al %	Na %	K %	Y ppm	
13618 SC2404	1	7	4	35		23	6	1021	1.68	5	5	ND	9	47	2	2	2	30	.57	.061	16	39	.47	122	.06	4	.74	.02	.04	1
13618 SC2602	1	6	2	33		22	6	345	1.39	3	5	ND	5	36	2	2	2	28	.50	.058	16	38	.47	84	.07	3	.75	.02	.04	1
13618 SC2604	1	42	2	44		30	5	155	1.38	18	9	ND	1	254	2	2	2	25	2.12	.077	10	55	.55	197	.05	12	.86	.02	.06	1
13618 SL14A	3	5	4	23		9	3	580	.84	9	5	ND	8	27	2	2	2	5	.30	.015	8	78	.05	264	.01	5	.20	.06	.08	1
13618 SL14B	10	48	333	237	10.3	10	3	530	2.17	66	5	ND	45	5	0	2	3	28	.03	.007	3	153	.02	58	.01	3	.13	.02	.08	5
13618 WL400	2	49	2	65		880	53	971	5.13	232	5	2	1	636	2	31	2	36	4.79	.062	3	376	7.29	57	.01	5	1.13	.01	.07	1
RE 13618 GCM-1	1	16	2	36		26	6	607	1.38	9	5	ND	2	67	2	2	2	25	.92	.067	11	43	.51	120	.05	2	.76	.02	.05	1
13618 WL410	4	10	11	36		59	11	948	2.73	94	5	ND	1	1147	2	2	2	13	6.30	.106	4	107	2.73	49	.01	5	.15	.01	.06	2
13618 GCB-1	1	12	5	31		19	5	224	1.14	2	5	ND	3	50	2	2	2	22	.64	.047	11	35	.43	90	.05	2	.66	.02	.03	1
13618 GCB-2	1	8	2	31		17	5	346	1.10	3	5	ND	3	40	2	2	2	23	.58	.053	13	32	.43	97	.06	2	.70	.02	.03	1
13618 GCM-1	1	14	3	36		23	6	593	1.36	2	5	ND	2	63	2	2	2	25	.91	.066	12	42	.48	114	.05	5	.76	.02	.05	1
13618 GCM-2	1	14	2	34		20	5	549	1.23	4	5	ND	2	54	2	2	2	24	.78	.064	14	37	.44	121	.05	2	.74	.02	.05	1
13618 1C106	5	808	20	43	10.2	1468	299	406	35.05	124	5	ND	1	8	2	3	2	44	1.10	.003	2	65	.25	9	.01	27	.10	.01	.01	2
13618 26NR1	2	6	17	34		15	4	354	1.40	28	5	ND	7	78	2	2	2	4	.73	.029	18	66	.28	94	.01	6	.34	.06	.17	1
13618 27W-5	1	19	2	25		66	5	162	1.70	10	5	ND	3	33	2	2	2	31	.36	.012	11	41	.49	93	.07	2	.98	.02	.04	1
13618 F1A	1	5	2	54		2413	115	829	5.97	8	5	ND	1	3	2	2	2	14	.09	.003	2	423	21.40	7	.01	20	.27	.01	.01	1
13618 PK1A	3	14954	29310	43836	234.8	9	11	5552	4.56	22	6	4	15	46	352.3	20	25	28	.47	.066	6	30	1.05	40	.05	30	2.18	.07	.07	1
STANDARD C	19	57	40	133	7.1	70	31	1073	3.97	41	16	7	40	52	18.6	14	19	60	.48	.090	39	58	.89	178	.09	35	1.88	.07	.15	1

Sample type: PULP. Samples beginning 'RE' are duplicate samples.

SAMPLE DESCRIPTION

~~Dep. Rock & Geol. cont'd~~

~~the north end of the area.~~

9235 - 6cm Qtz / calcite / epidote stringer.
in East trending joint in diorite

9236 - Angular float - (Bleached) Tan, ^{rusty, rhy} volcanic
with qtz / carbonate stringers

9237 - Angular float - Tan + Black rusty
Ni Cr Mg qtz / carbonate / malpaisite

9238 Rusty, ^{mafic volcanic} well jointed (sheared) pyritic
selvages - Across 10 m.

9239 Angular float - Serpentinized ultramafic
gray qtz / carbonate flooding + stringer
Sb, Mg, As. minor malpaisite

9240 orange rusty qtz carbonate
stringers ^{to 1 cm} in granish - black volcanic

9241 Gabbroic rock with minor pyroclastic

9242 Qtz and ^{dark} shistose rock. (meta volcanics)

9243 Tan. Gray qtz carbonate and
also black stringers in ultra
mafic rock.

9244

A-1

SAMPLE DESCRIPTIONS

Rock Geochem.

Nine samples were collected. They are described below and located on map in appendix.

- 231 - Probably float. Grey qtz with black stringers, qtz veinlets x-cutting, matrix.
- 232 - Probably float. Tan weathered to greyish volcanic fine grain black stringers and x-cutting qtz veinlets 1-2 mm.
- 2401 - Pyritic, rusty grey green ^{shear.} ~~volcanic~~ and fractured ~~qtz~~ ~~ftz~~ volcanic.
- Some qtz flooding
- shear, vertical trending N20E
- sample across 3 m.
- SL14A - Rusty fine grain qtz + qtz feldspar.
- SL14B - Limonitic, qtz / feldspar, pegmatite with minor black sulphides.
- structure uncertain
- sample across 1 m.
- F1A - Grey - gritty 50%
- black fluidal inclusions 50%
- magnetic
- float?

B1

SAMPLE DESCRIPTIONS.

- ZUNRI - Rusty grey gte carbonate
A with gte stringers in shear
- strike NW 60E
- sampled across 8' exposure.
- mafic volcanic host some
light green (bleached) shistose
- A rusty - slaty black (graphitic, g. gillite)
outcrops beside to the SE

- WL400 - Black fine grain volcanics
silicification, mariposite,
carbonate alteration and
gte veining
- Sample across 2 m
- No apparent strike, jointing
N 40 E
- Black fine grain meta volcanic
host rock.
- ~~Dark~~ outcrop of dark gray
to black volcanic with 5%
biotite outcrops NW.

- WL410 - Sample across 1.5 m
barren gte shear strike
N 10 W

Marshall

GEOLOGY

Sy - Syenite

MV - META VOLCANIC

GREY - BLACK - SHISTOSE

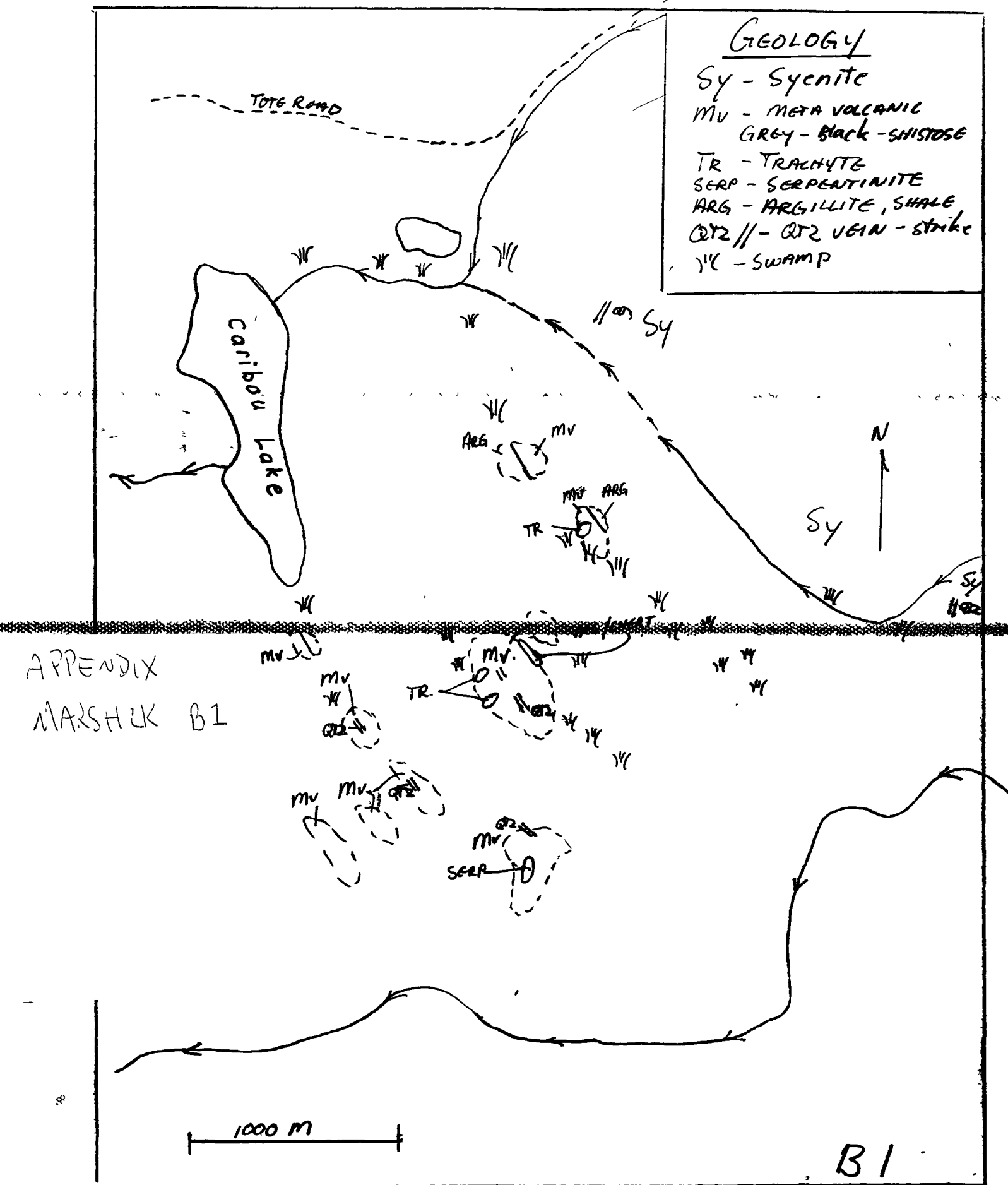
TR - TRACHYTE

SERP - SERPENTINITE

ARG - ARGILLITE, SHALE

QTZ // - QTZ VEIN - STRIKE

/// - SWAMP



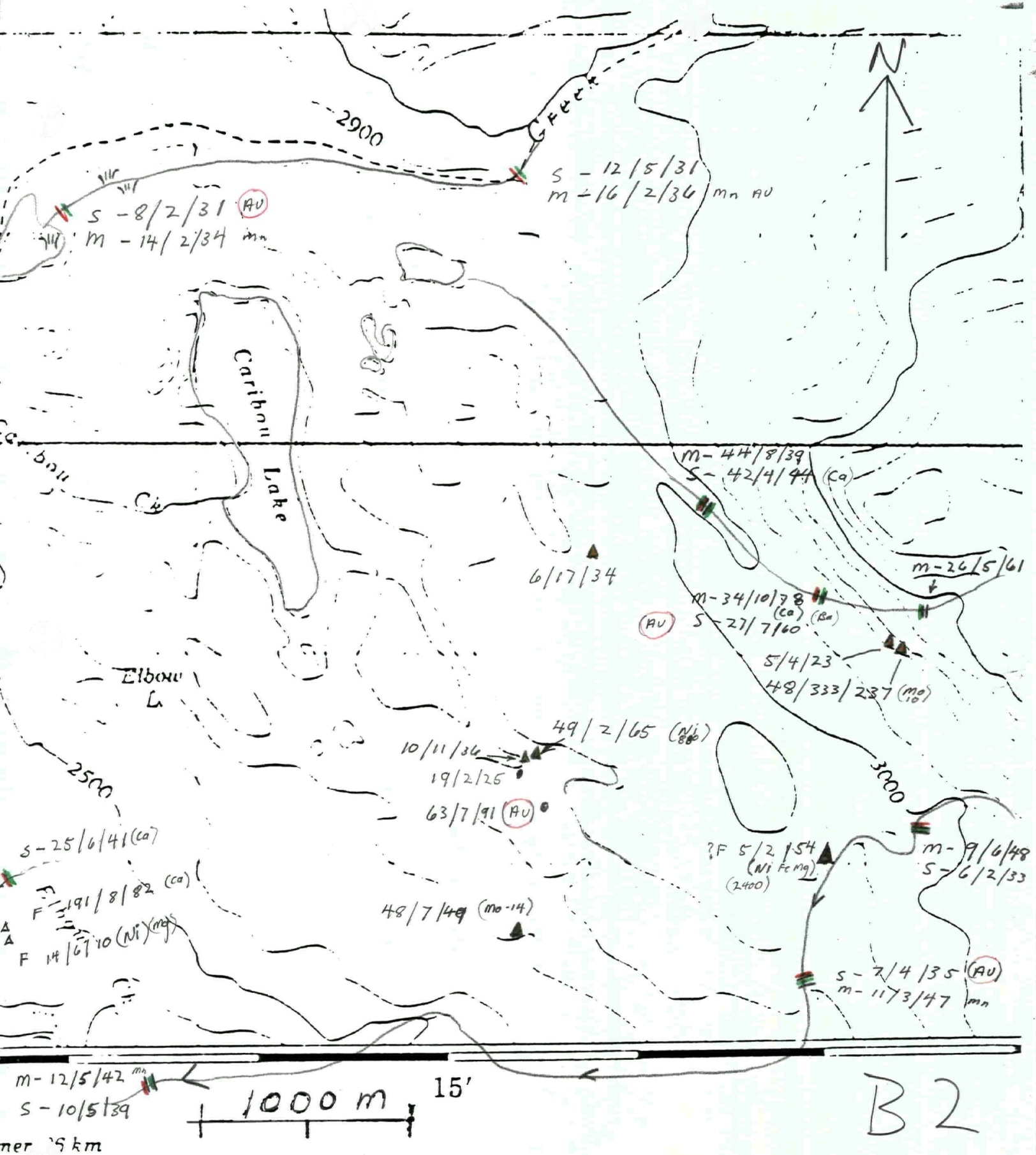
APPENDIX
MARSHALL B1

B1

AREA 'B' SAMPLE LOCATION + NUMBERS
VALUES AD PPB / AG PPM / AS PPM
GEOLOGY

Rock
Moss / Sediment
Soil

B/

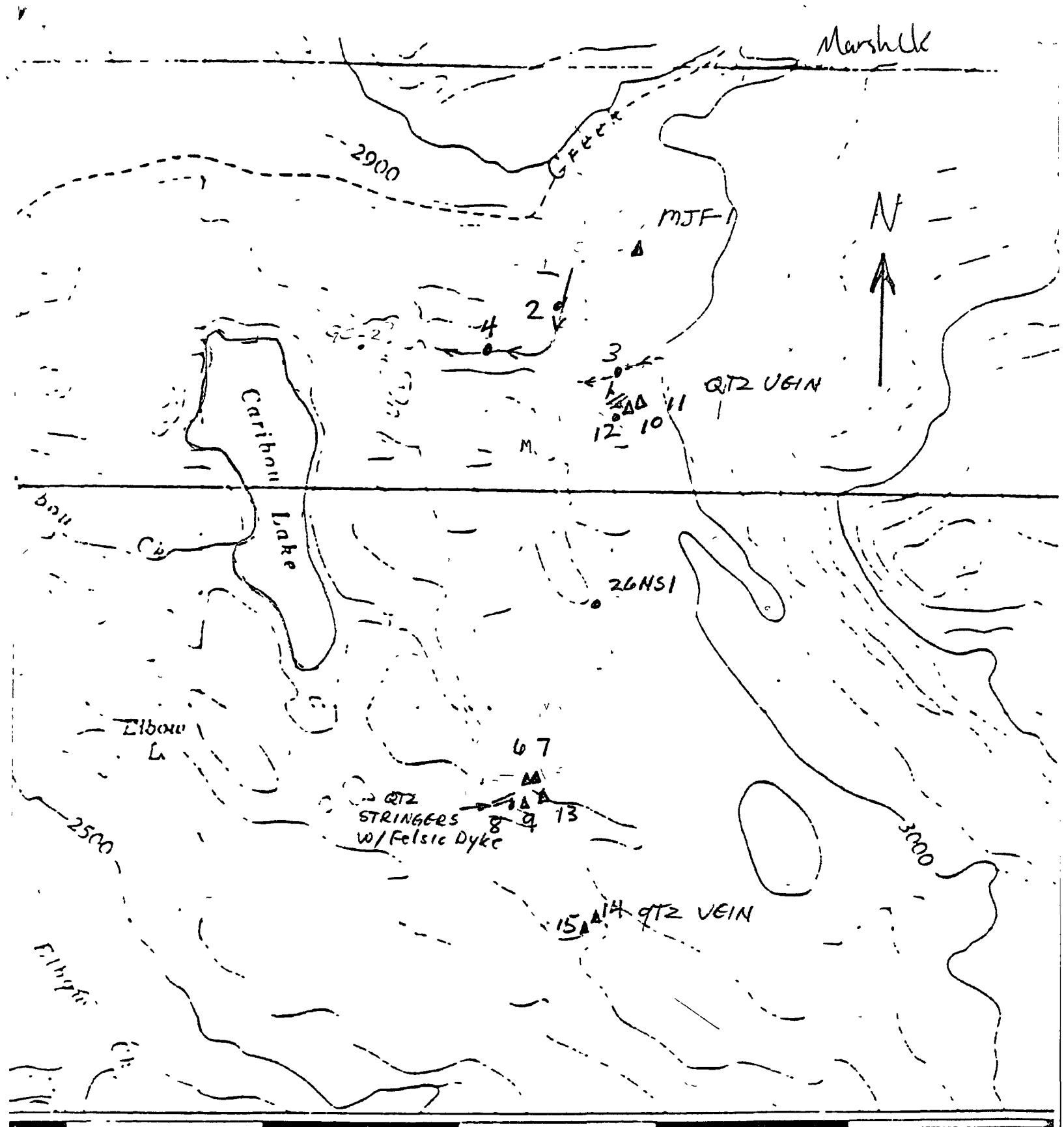


AREA 'B'

SAMPLE VALVES
CU / Pb / Zn - (OTHER HIGHER VALUES)

Rock - Δ - 'F' - suspected float
Soil - $\bullet$
Stream
Sediment - $\parallel$
m - moss mat
S - sediment

B2



MJ SAMPLE LOCATIONS
MJ

iPL Report: 9200680 Northern Analytical Laboratories
Project: Various W/O

In: Aug 24, 1992
Out: Aug 26, 1992

46 Pulp

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Section 1 of 2
Certified BC Assayer

David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %
W/O 13675 26NS1	P 0.3	254	63	207	316	7	<	5	<	<	0.1	31	84	57	<	36	60	590	10	71	2	15	0.01	1.46	0.31	9.34	0.64	0.04	0.02
W/O 13675 MJC- 2	P <	10	<	27	5	<	<	<	<	<	0.1	5	16	89	<	28	24	196	11	28	1	2	0.03	0.61	0.50	1.12	0.46	0.03	0.03
W/O 13675 MJC- 3	P <	28	14	56	7	5	<	2	<	<	0.5	8	36	187	<	40	39	348	7	100	1	2	0.04	0.99	1.03	1.93	0.72	0.16	0.03
W/O 13675 MJC- 4	P 0.1	16	<	31	5	<	<	<	<	<	0.1	6	21	162	<	34	26	850	9	48	1	2	0.04	0.69	0.79	1.27	0.50	0.04	0.03
W/O 13675 MJS- 8	P 0.5	120	19	131	437	23	<	7	<	<	0.8	53	860	218	<	94	70	1532	14	78	3	29	0.02	1.55	0.59	7.93	0.68	0.10	0.02
W/O 13675 MJS-12	P 0.7	75	62	124	1452	24	<	5	<	2	0.5	43	82	210	<	95	132	825	25	56	2	26	0.04	1.78	0.67	7.25	0.80	0.14	0.02

26 - Perlite soil - residual - over shale / shist argillite?
Contact ARG / Volc / Trachyte?

2 - Upper - major creek } same bottom sand
4 - Lower - " }

3 - Very small drainage E-NE $\Rightarrow$ W-SW - doubtful source tiller
INTRUSIVE contact area

8 - SE CARIBOU LK soil below outcrop of qtz carb metamorphic (mineral) py (mineral)
stringers in grey volc. / Trachyte? contact with
volc.

12 - EAST CARIBOU LK soil below qtz veining - NE striking - Mag / iron



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Out: Aug 26, 1992

46 Pulp

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Section 2 of 2

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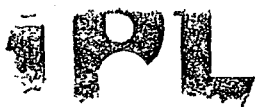
David Chiu

Sample Name	P
	Z

N/O 13675 26NS1	P 0.03
N/O 13675 MJC- 2	P 0.06
N/O 13675 MJC- 3	P 0.08
N/O 13675 MJC- 4	P 0.07
N/O 13675 MJS- 8	P 0.05
N/O 13675 MJS-12	P 0.08

Min Limit 0.01
Max Reported* 5.00
Method ICP

--No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898



2000
Vancouver
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Phone (604) 279-7898
Fax (604) 279-7898

IPL Report: 9200622 T Northern Analytical Laboratories
Project: W/O 13675

In: Aug 12, 1992
Out: Aug 14, 1992

10 Pulp

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Section 1 of 1
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David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
MJ 1	P <	22	15	42	<	<	<	2	<	<	0.4	4	4	145	<	22	32	666	22	45	18	1	0.02	0.19	0.76	1.38	0.03	0.11	0.05	0.04
MJ 6	P <	60	<	95	69	<	<	3	<	<	<	30	70	26	5	22	33	295	<	8	1	2	0.08	0.77	0.41	5.30	0.62	0.04	0.03	0.03
MJ - 7	P 0.4	48	17	82	191	7	<	3	<	<	0.1	31	72	28	<	34	93	477	<	29	4	4	0.21	1.06	1.09	9.71	0.88	0.11	0.03	0.17
MJ 9	P 0.4	43	<	43	161	16	3	5	<	<	0.1	27	179	84	<	245	58	943	5	703	2	13	<	1.16	5.71	4.03	4.61	0.09	0.02	0.11
MJ -10	P 0.4	20	31	47	492	7	<	4	<	<	0.3	6	14	96	<	99	23	486	4	51	1	5	<	0.22	1.45	1.59	0.19	0.06	0.02	0.06
MJ -11	P 0.2	17	15	56	527	8	<	4	<	<	0.3	8	19	104	<	83	30	699	4	51	<	6	<	0.24	2.07	2.11	0.17	0.07	0.03	0.05
MJ 13	P <	30	4	18	459	52	<	4	<	<	0.9	60	976	49	<	392	27	473	2	337	1	10	<	0.31	2.83	3.68	12.05	0.05	0.02	0.05
MJ -14	P <	26	<	9	9	5	<	5	<	<	0.3	3	22	282	<	135	22	74	4	30	1	2	0.03	0.54	0.35	0.82	0.36	0.09	0.02	0.04
MJ 15	P 0.1	103	<	40	5	<	<	16	<	<	0.3	9	55	139	<	139	108	228	4	13	5	6	0.04	0.84	0.12	2.56	0.69	0.19	0.03	0.02
9244	P <	17	<	9	<	<	<	4	<	<	0.1	2	8	13	<	115	9	79	<	30	1	1	0.02	0.24	0.77	0.48	0.37	0.03	0.02	0.03

1 - Syenite

6 - pyritic shear in area of qtz veining in meta volc - NW striking
AU 7 - 0X101360 #6

9 - Qtz carb stringers W of 13 contact area meta volc + trachyte?
+ volc host rock.

AU 225 10 Across 1m rusty qtz vein
AU 145 11 felsic wallrock bx + stringers

13 volc (UB?) w/ qtz stringers + bx matrix py 1-5% - 1m NW shear.

14 Qtz vein - rusty dirty looking over 3m exposure
15 " + wallrock. along 30m strike E-SE UPSLOPE soil 110 1150 ppm

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
Max Reported* 99.9 20000 20000 20000 9999 9999 9999 9999 999 999 999 99.9 999 999 9999 999 9999 999 9999 9999 999 99 1.00 99.99 99.99 99.99 99.99 99.99 5.00 5.00
Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP
---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefir m=Estimate/1000 %=Estimate % Max=No Estimate
Internation Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/8 378 Fax:604/879-7898

18-Aug-92 date

Assay Certificate

page 1

Geoff Rushant

WO#13675

Sample #	Au ppb
MJF-1	10
MJ-6	31
MJ-7	70
MJ-9	22
MJ-10	225
MJ-11	145
MJ-13	7
MJ-14	8
MJ-15	9
CC9206	18
9244	134
MJC-2	<5
MJC-3	6
MJC-4	<5
MJS-8	7
MJS-12	272
26NS1	33

Certified by *Cheryl K.*

MJ



SAMPLE DESCRIPTIONS

MJ SAMPLES July 25-28 9 - Rock

MJ-1 - Sycite - limonitic orange to red stain with black granular to siliceous mineral on selvages. - 5%
 - minor grey-black streak
 - Grab sample

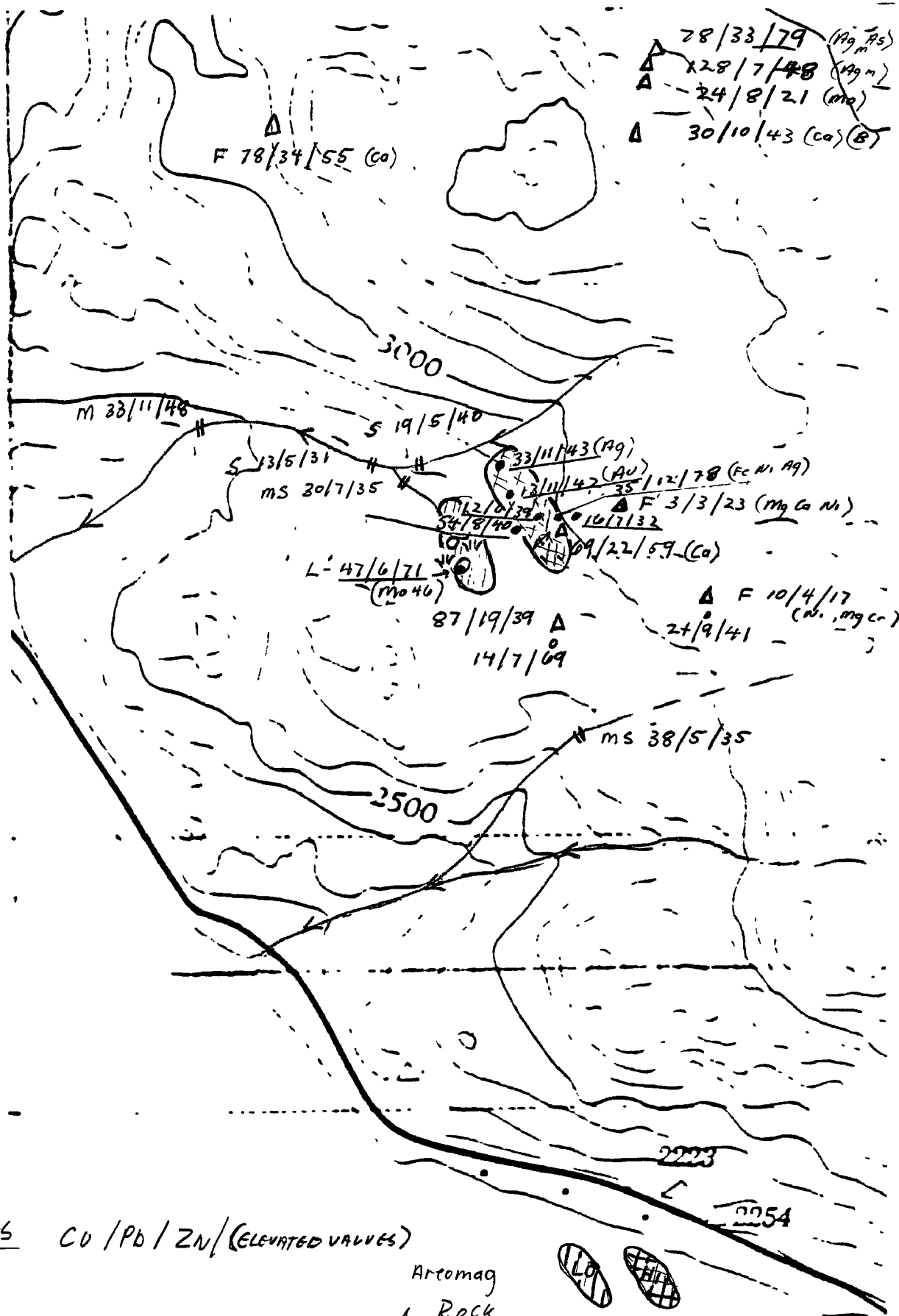
MJ-6 - Very orange rusty, minor carbonate
 - Light to dark green fine grain, lamellar
 - pyrite x's minor, pyrite along flow lines, with yellow, earthy material
 - shiny orange brown x's granular to cubic. soft.
 - minor listwanite

MJ-7 - Oxidized MJ-6.
 - Very rusty. 5% pyrite with earthy tan, yellow, orange masses.
 - minor granular qtz and carbonate
 - G + 7 Rep. samples across 1.5 m

MJ-9 - Qtz carbonate stringers cutting 1m-2cm
 light grey fine to med grain volcanic
 - minor black inclusions (crystals?)
 - listwanite (minor; with rock + qtz)
 - pyrite < 1%
 - Rep. sample across 2 m.

MJ-10 - Qtz, lamellar crystalline, orange
 E-W 1m rusty selvages to 10%, some red stain.
 - minor, < 1% grey black coating in joints
 - minor amount crumbly altered felsic dyke wallrock.

MJ



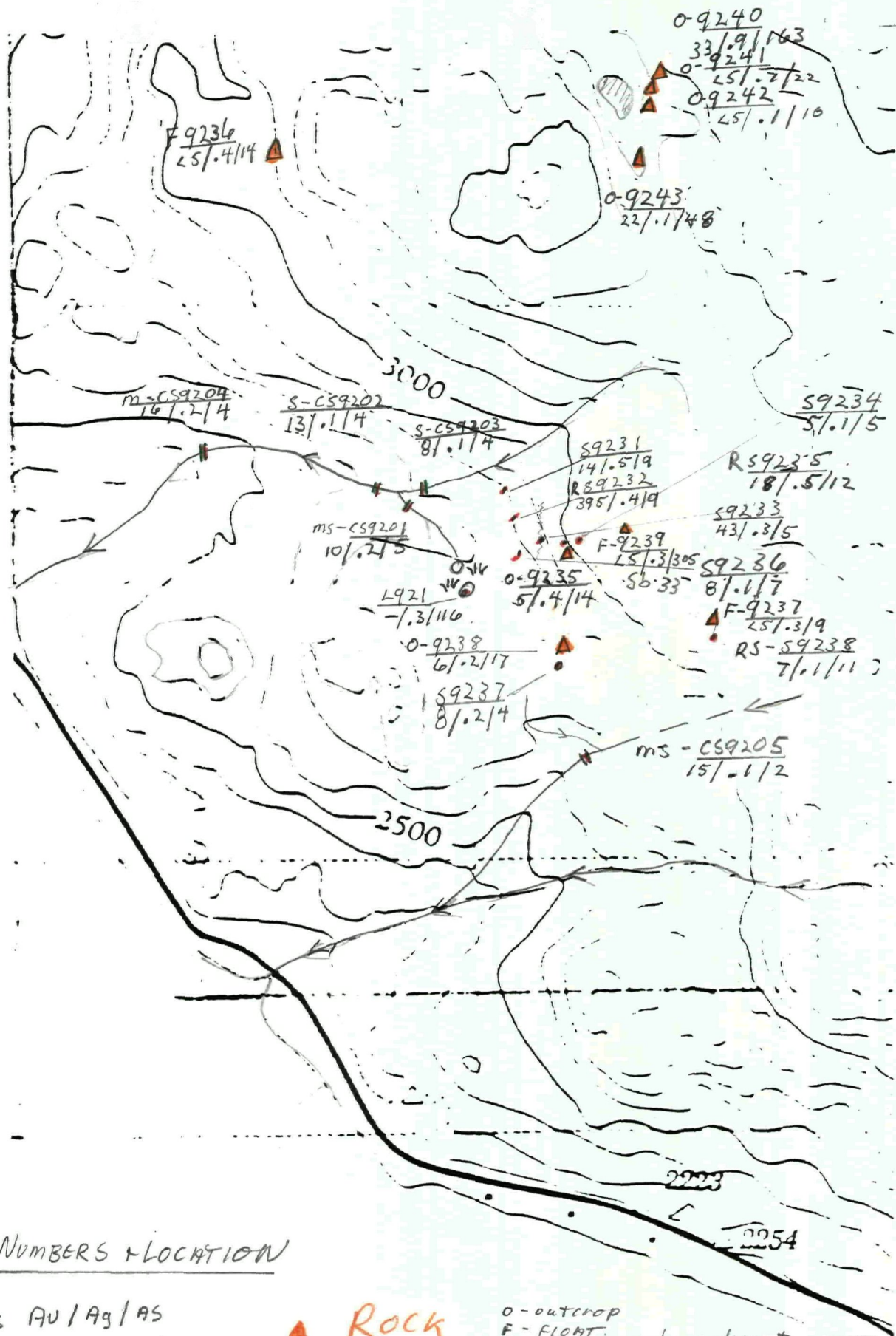
Area 'A'

SAMPLE VALUES CU / Pb / Zn / (ELEVATED VALUES)

500m

- Arcomag
- Δ Rock
- Soil
- L - Lake sediment
- RS - RESIDUAL SOIL
- || STREAM
- MOSS MAT - M
- Sediment - S

2A



1A

MJ SAMPLE DESCRIPTIONS

Soil / Sediment Samples.

MJC-2 - Bottom ^{sediment} Sandy grey

MJC-3 Sifted grey brown crumbly
to angular pebbles in crk bottom
- grey - green qtz w/ minor dark
mineral grains

MJC-4 Grey brown bottom sed

MJS-8 Red br soil - residual

MJS-12 Red br soil - residual
4 pits.

26NS1 - Red br soil - residual

CC9206 - 16 gm pan concentrate
Area A.

MJ

Rock Samples

- MJ-11 - Qtz and wall rock breccia (felsite) 50, 5
- Qtz veins crystalline - minor
- grey black 'dendritic' coarsens
- wall rock breccia, silicified, rusted
- Rep. samples from pits.

- MJ-13 - Qtz crystalline veining with listwanite
- dk green to black rock - li. fluidal
milky dty. breccia (lime, listwanite
and dk grey color material.
- pyrite 1 to 5%
- siliceous
- Rep. sample across 1 M.

- MJ-14 - Qtz yellow / light green (mud) to
orange to red brown staining joints
- Qtz crystalline to sugrosic lumpy
and minor flaggy parting.
- sugrosic, light grey colored.
- includes lt green to grey brown
silicified rock frags?
- Dirty looking
- Rep. sample across 3 M.

- MJ-15 - Qtz and altered wall rock very
limonitic.
- Some lamellar features, minor
graphitic selvages.
- Rep. samples along 30 M. E-W.

- 9244 - Graphitic Qtz (AREA A)
- Flowed structure
- Crystalline and sugrosic

MJ.

AUG 25 - 30 CA SAMPLES.

CA-1 - White $\rightarrow$ light gray $\rightarrow$ green, patches and joints,
silicic, carbonatized, $\checkmark$ limonitic
- fractured shear filling, py 1-5%, minor
sooty graphite? - Across .4 m, shear N20E $\pm$

CA-2 - White $\rightarrow$ lt gray volcanic bx, pervasive
jointing + greenish silica flooding
- limonitic, py 1-2% dissemin + in joints
CA-2 site

CA-3 - Clear qtz and dark gray coloring 50%, dark gray
joint fillings
- Gray qtz lease .5 m wide in meta-volc

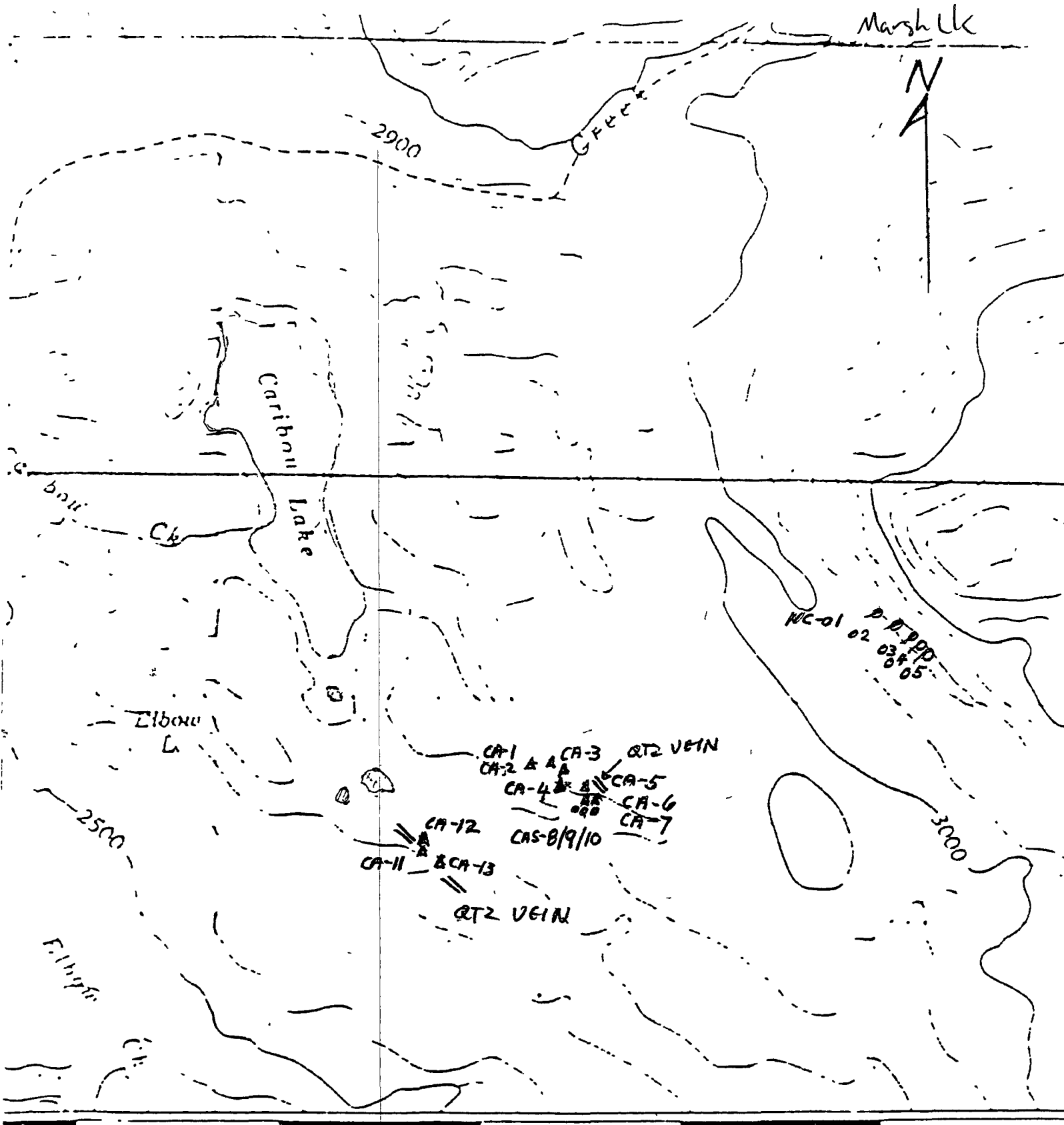
CA-4 - White sugrosic qtz, 30% gray stringers
- As above - red-orange stained, 30% gray-bleat
graphitic stringers WEST MS-6/7.

CA-5 Sheared qtz, limonite coating shear
surfaces, lt yellow $\rightarrow$ greenish staining
representative grabs. E-W 2 m.
- 30 m NE MS-13
- minor 2% gray minute fracture fillings
and smokey qtz.

CIA - SAMPLES

AUG 25-30/92

- CA-6 - Limeritic, clear to white qtz vein
 minor carbonate, graphitic selvages
 grayish color to 25%
 py. < 1% across .25 M
- CA-7 - Listwanite - minor carbonate
 py < 1%, black disseminations 1%
 minor musking, very little py.
- CAS-8 - RESIDUAL soil - west side, below 6/7 showing
- CAS-9 - Soil below middle of showing across 1M
- CAS-10 - Soil below East side of veining and
 graphitic shear across 1M.
- CA-11 - Qtz vein w/ lamellar - shistose black-graphitic
 - clear + sucrosic qtz - rusty - minor
 carbonate. - Grab from 2m exposure
- CA-12 - Mostly sucrosic qtz and minor clear qtz
 minor carbonate - shistose graphitic
 bands - 25%
- CA-13 - Qtz - CARBONATE + wallrock (argillite) bx
 - 5% black disseminations (discoloring)
 of selvages.
- NC-01 br-drk brn sediment - lots of organic material
- 02 "
- 03 SAME AS ABOVE



15'

1000 m

26 km

CA - SAMPLES

△ - ROCK

○ - Soil / stream sed.

== QTZ VEIN

105-D/9

CA. SAMPLE LOCATIONS

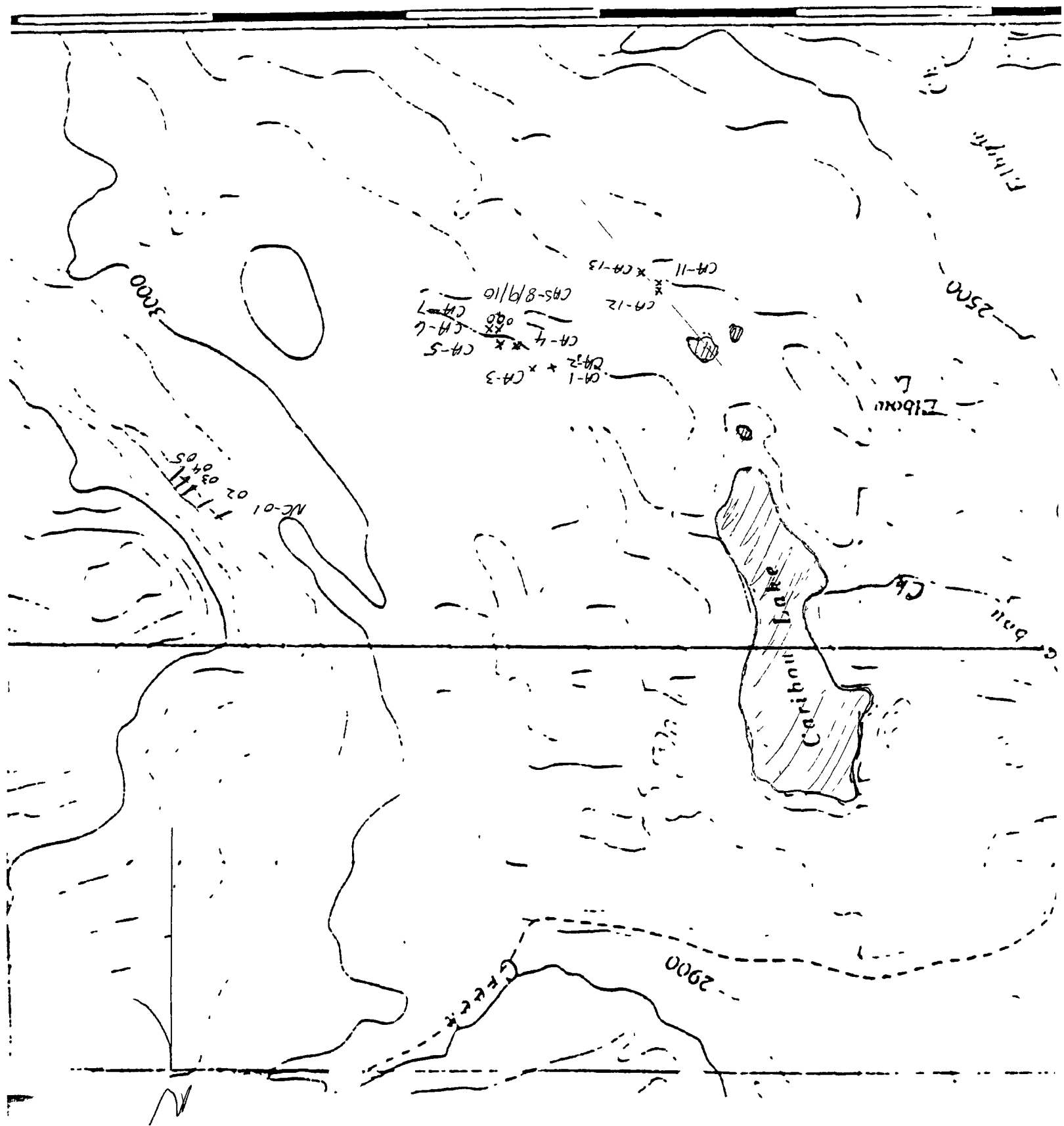
CA

105-D/9

2175. 104

157

CH - SAMPLES
X - ROCK
O - Soil / str



18-Aug-92 date

Assay Certificate

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Geoff Rushant

WO#13675

Sample #	Au ppb
MJF-1	10
MJ-6	31
MJ-7	70
MJ-9	22
MJ-10	225
MJ-11	145
MJ-13	7
MJ-14	8
MJ-15	9
CC9206	18
9244	134
MJC-2	<5
MJC-3	6
MJC-4	<5
MJS-8	7
MJS-12	272
26NS1	33

Certified by

Chy K





INTERTEKNA, PLSMA LABORATORY LTD

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iPL Report: 9200622 T Northern Analytical Laboratories
Project: W/O 13675

In: Aug 12, 1992
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10 Pulp

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Section 1 of
Certified BC Assayer

David

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
MJF- 1	<	22	15	42	<	<	<	2	<	<	0.4	4	4	145	<	22	32	666	22	45	18	1	0.02	0.19	0.76	1.38	0.03	0.11	0.05	0.04
MJ - 6	<	60	<	95	<	<	<	3	<	<	<	30	70	26	<	22	33	295	<	8	1	2	0.08	0.77	0.81	5.30	0.62	0.04	0.03	0.03
MJ - 7	0.4	48	17	82	191	7	<	3	<	<	0.1	31	72	28	<	34	93	477	<	29	4	4	0.21	1.06	1.09	9.71	0.88	0.11	0.03	0.17
MJ - 9	0.4	43	<	43	161	16	3	5	<	<	0.1	27	179	84	<	245	58	943	5	703	2	13	<	1.16	0.71	4.03	4.61	0.09	0.02	0.31
MJ -10	0.4	20	31	47	492	7	<	4	<	<	0.3	6	14	96	<	99	23	486	4	51	1	5	<	0.22	1.45	1.59	0.19	0.06	0.02	0.06
MJ -11	0.2	17	15	56	527	8	<	4	<	<	0.3	8	19	104	<	83	30	699	4	51	<	6	<	0.24	2.07	2.11	0.17	0.07	0.03	0.05
MJ -13	<	30	4	18	459	52	<	4	<	<	0.9	60	976	49	<	392	27	473	2	337	1	10	<	0.31	2.83	3.68	1220	0.05	0.02	0.05
MJ -14	<	26	<	9	9	5	<	5	<	<	0.3	3	22	282	<	135	22	74	4	30	1	2	0.03	0.54	0.35	0.82	0.36	0.09	0.02	0.04
MJ -15	0.1	103	<	40	5	<	<	16	<	<	0.3	9	55	139	<	139	108	228	4	13	5	6	0.04	0.84	0.12	2.56	0.69	0.19	0.03	0.02
9244	<	17	<	9	<	<	<	4	<	<	0.1	2	8	13	<	115	9	79	<	30	1	1	0.02	0.24	0.77	0.48	0.37	0.03	0.02	0.03

Min Limit	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP
—No Test	In=Insufficient Sample				C=Cd	P=Pb	A=As	S=S	I=In	B=B	D=D	L=L	H=Hg	F=Fe	Ni=Ni	M=Mn	Zn=Zn	Co=Co	Cu=Cu	Cr=Cr	Mg=Mg	Ca=Ca	K=K	Na=Na	Al=Al	Si=Si	Ti=Titanium	V=V	Cr=Chromium	Mo=Mo

PL Report: 9200680 T Northern Analytical Laboratories
Project: Various W/O

In: Aug 24, 1992
Out: Aug 26, 1992

46 Pulp

Page 1 of 2

Section 1 of 2
Certified BC Assayer

David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %
W/O 13675 26NS1	P 0.3	254	63	207	316	7	<	5	<	<	0.1	31	84	57	<	36	60	590	10	71	2	15	0.01	1.46	0.31	9.34	0.64	0.04	0.02
W/O 13675 MJC- 2	P <	10	<	27	5	<	<	<	<	<	0.1	5	16	89	<	28	24	196	11	28	1	2	0.03	0.61	0.50	1.12	0.46	0.03	0.03
W/O 13675 MJC- 3	P <	28	14	56	7	5	<	2	<	<	0.5	8	36	187	<	40	39	348	7	100	1	2	0.04	0.99	1.03	1.93	0.72	0.16	0.03
W/O 13675 MJC- 4	P 0.1	16	<	31	5	<	<	<	<	<	0.1	6	21	162	<	34	26	850	9	48	1	2	0.04	0.69	0.79	1.27	0.50	0.04	0.03
W/O 13675 MJS- 8	P 0.5	120	19	131	437	23	<	7	<	<	0.8	53	860	218	<	94	70	1532	14	78	3	29	0.02	1.55	0.59	7.93	0.68	0.10	0.02
W/O 13675 MJS-12	P 0.7	75	62	124	1452	24	<	5	<	2	0.5	43	82	210	<	95	132	825	25	56	2	26	0.04	1.78	0.67	7.25	0.80	0.14	0.02

ipl Report: 9200622 T
Project: W/O 13675

Northern Analytical Laboratories

In: Aug 12, 1992
Out: Aug 14, 1992

10 Pulp

Page 1 of 1

Section 1 of 1
Certified BC Assayer

David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
MJF- 1	<	22	15	42	<	<	<	2	<	<	0.4	4	4	145	<	22	32	666	22	45	18	1	0.02	0.19	0.76	1.38	0.03	0.11	0.05	0.04
MJ - 6	<	60	<	95	69	<	<	3	<	<	<	30	70	26	5	22	33	295	<	8	1	2	0.08	0.77	0.41	5.30	0.62	0.04	0.03	0.03
MJ - 7	0.4	48	17	82	191	7	<	3	<	<	0.1	31	72	28	<	34	93	477	<	29	4	4	0.21	1.06	1.09	9.71	0.88	0.11	0.03	0.17
MJ - 9	0.4	43	<	43	161	16	3	5	<	<	0.1	27	179	84	<	245	58	943	5	703	2	13	<	1.16	5.71	4.03	4.61	0.09	0.02	0.11
MJ -10	0.4	20	31	47	492	7	<	4	<	<	0.3	6	14	96	<	99	23	486	4	51	1	5	<	0.22	1.45	1.59	0.19	0.06	0.02	0.06
MJ -11	0.2	17	15	56	527	8	<	4	<	<	0.3	8	19	104	<	83	30	699	4	51	<	6	<	0.24	2.07	2.11	0.17	0.07	0.03	0.05
-13	<	30	4	18	459	52	<	4	<	<	0.9	60	976	49	<	392	27	473	2	337	1	10	<	0.31	2.83	3.68	12.05	0.05	0.02	0.05
-14	<	26	<	9	9	5	<	5	<	<	0.3	3	22	282	<	135	22	74	4	30	1	2	0.03	0.54	0.35	0.82	0.36	0.09	0.02	0.04
MJ -15	0.1	103	<	40	5	<	<	16	<	<	0.3	9	55	139	<	139	108	228	4	13	5	6	0.04	0.84	0.12	2.56	0.69	0.19	0.03	0.02
9244	<	17	<	9	<	<	<	4	<	<	0.1	2	8	13	<	115	9	79	<	30	1	1	0.02	0.24	0.77	0.48	0.37	0.03	0.02	0.03

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
Max Reported* 99.9 20000 20000 20000 9999 9999 9999 9999 999 999 99.9 999 999 9999 999 9999 999 9999 9999 9999 999 99 1.00 99.99 99.99 99.99 9.99 9.99 5.00 5.00
Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP
---No Test :Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefin m=Estimate/1000 %=Estimate % Max=No Estimate
International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph:604/879-7878 Fax:604/879-7898

18-Aug-92 date

Assay Certificate

page 1

Geoff Rushant

WO#13675

Sample # Au ppb

MJF-1	10
MJ-6	31
MJ-7	70
MJ-9	22
MJ-10	225
MJ-11	145
MJ-13	7
MJ-14	8
MJ-15	9
CC9206	18
9244	134
MJC-2	<5
MJC-3	6
MJC-4	<5
MJS-8	7
MJS-12	272
26NS1	33

Certified by *Cheryl K.*



09-Sep-92 date

Assay Certificate

page 1

Geoff Rushant

WO#13749

Sample #	Au ppb	Ag ppm	Cu ppb	Pb ppm	Zn ppm	As ppm	Cd ppm	Sb ppm	Co ppm
CA1	24	0.1	1070	13	105	141	<0.1	32	45
CA2	13	<0.1	505	6	77	112	<0.1	29	32
CA3	5	<0.1	64	<1	21	52	0.3	19	8
CA4	<5	<0.1	45	1	32	41	<0.1	13	11
CA5	5	<0.1	27	<1	22	113	0.2	18	4
CA6	43	<0.1	7	23	36	483	0.1	44	31
CA7	10	<0.1	8	18	80	1480	<0.1	83	60
CA11	<5	<0.1	26	<1	26	63	<0.1	29	10
CA12	7	<0.1	13	2	30	80	0.2	12	8
CA13	17	<0.1	28	7	22	66	<0.1	49	19
NC101	8	<0.1	20	2	37	97	<0.1	34	12
NC102	10	<0.1	18	1	34	83	<0.1	9	11
NC103	530	<0.1	21	4	37	237	0.1	13	12
CA8	14	<0.1	39	8	31	584	0.7	16	23
CA9	1103	<0.1	88	22	45	278	0.4	27	29
CA10	134	<0.1	45	16	56	1481	0.1	42	51

Certified by

Chyoki

CIA



09-Sep-92 date

Assay Certificate

page 2

Sample # Ni ppm

CA1	60
CA2	69
CA3	21
CA4	34
CA5	24
CA6	201
CA7	651
CA11	19
CA12	17
CA13	2
NC101	26
NC102 SED	22
IC103	28
CA8	174
CA9 Soil	107
CA10	760

Pyritic shear, graphitic volcanic (UB?)

Qtz lenses? in Meta volcanics

LIMONITIC QTZ CARB, GRAPHITIC
LISTWANITE MINOR PY.

GRAPHITIC QTZ & CARB

DRAINAGE SEDIMENTS

AREA OF 6000 PPB AU IN SEDS.

WEST OF QTZ vein

BENEATH QTZ vein

EAST OF QTZ BENEATH GRAPHITIC SHEAR

Certified by

Chypicki

CA



Aug 25 - 30 (Fr) SAMPLES.

CA-1 white $\rightarrow$ light gray - green patches and veins.
silica carbonated, v limonitic
- fractured shear filling, py. 5%,
coarse graphite: - across 4 m, shear N45E

CA-2 - White $\rightarrow$ lt gray - volcanic s. ex., pervasive
jointing + greenish silica filling
- limonitic, py. 1-2% disseminated + in joints.
Cr-2 site

CA-3 - Clear qtz and dark gray coloring 50%, dilated
joint fillings
- Grey qtz lenses .5 m under in 10 m etc

CA-4 - White, sucrosic qtz, 30% gray stringers
- 10' above - red-orange stained, 30% green
graphitic stringers. West MS-6/7

CA-5 - Sheared qtz, limonite coating shear
surfaces, lt yellow $\rightarrow$ greenish staining
representative grabbs. E-W 2 m.
- 30 m NE MS-13
- minor 2% gray minute fracture fillings
and smoky qtz.

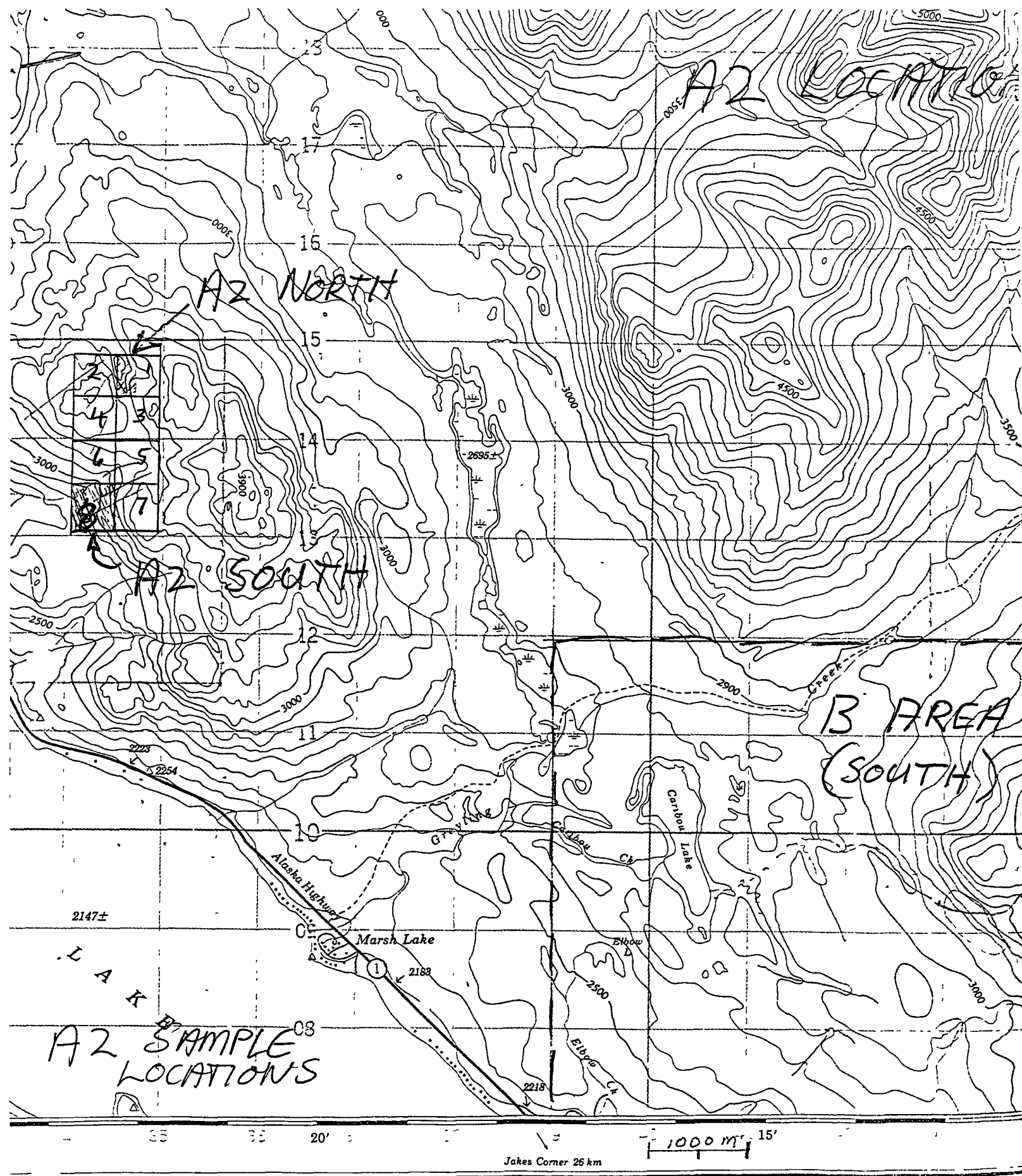
CA

CH - Sr. FES

AUG 25-30, 92

- CA-6 - Limestone, clear to white dr. vein
minor carbonate, graphitic selvages
grayish color to 25%
py. < 1% across .25 m
- CH-7 - Limestone - minor carbonate
py. < 1%, black disseminations 1%
minor rusting, very little py.
- CAS-8 - RESIDUAL SOIL - west side, below 6/7 showing
- CAS-9 - Soil below middle of showing across 1M
- CAS-10 - Soil below East side of veining and
graphitic shear across 1M.
- CA-11 - Qtz ven w/ lamellar - shistose black-graphitic
- clear + sucrosic qtz - rusty - minor
carbonate. - Grab from 2m exposure
- CA-12 - Mostly sucrosic qtz and minor clear qtz
minor carbonate. - shistose graphitic
bands - 25%
- CA-13 - Qtz - CARBONATE + wallrock (argillite) bx
- 5% black disseminations (discoloring)
of selvages.
- NC-01 br-drk brn sediment - lots of organic material
- 02 "
- 03 SAME AS ABOVE
- 04 Mostly ORGANICS dredged from 2-3'
- 05 Rounded cobbles under.

CA



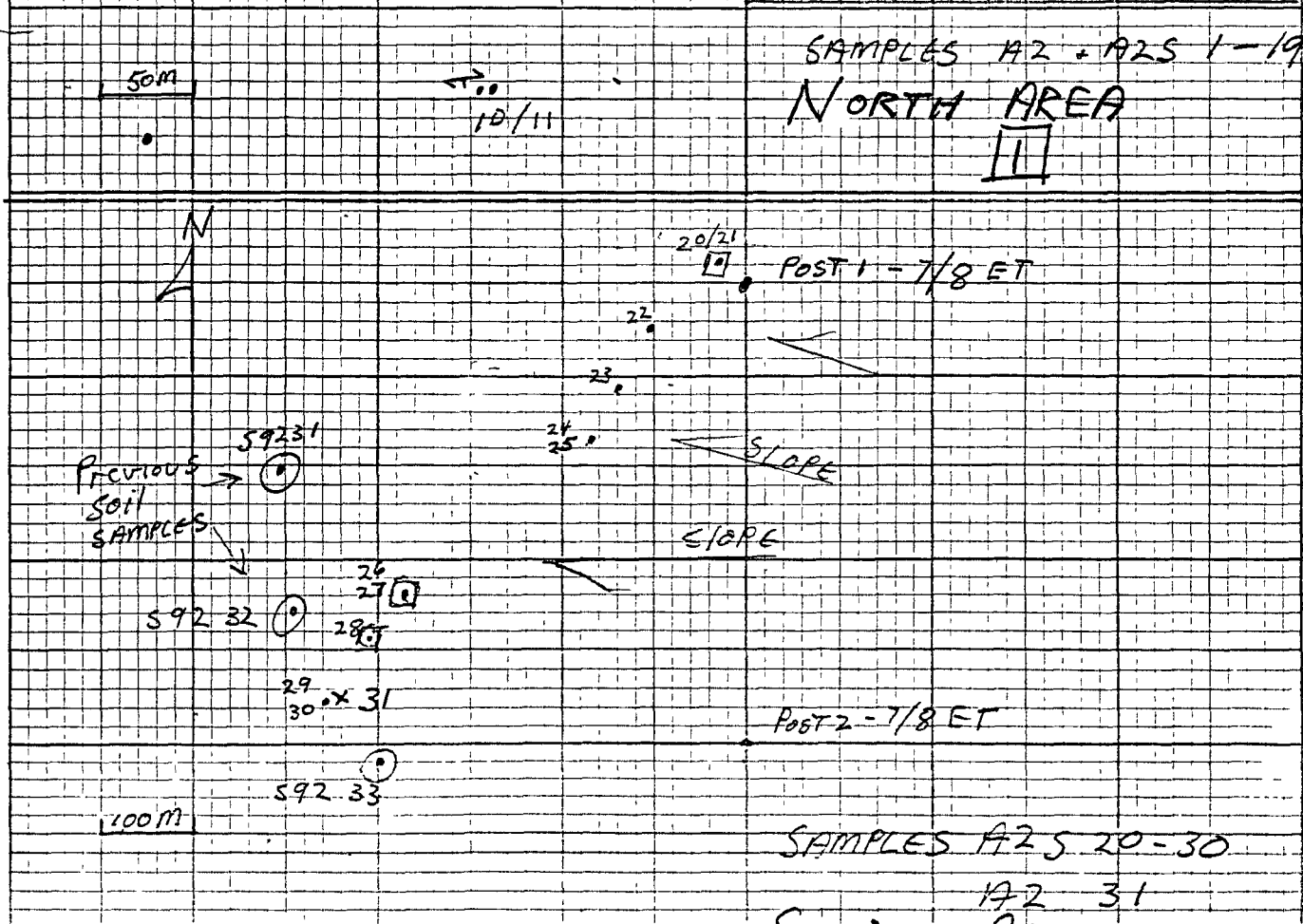
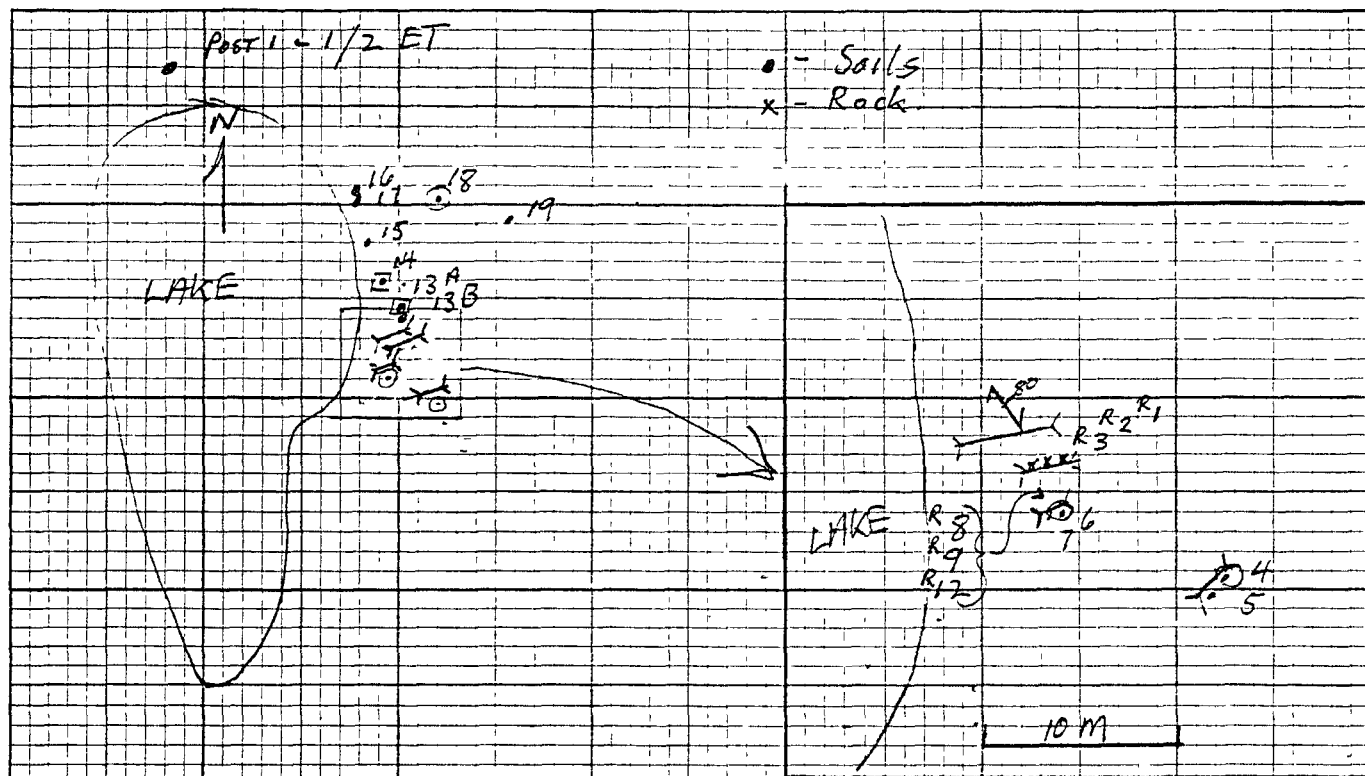
utes	duel highway	more than 2 lanes
ement dur	double c iaussee	plus de 2 voies
ement dur	2 lanes	less than 2 lanes
	2 voies	moins de 2 voies
vier agglomère toute saison	2 lanes or more	plus than 2 lanes
gravier temps sec	2 vo es ou plus	moins de 2 voies
ne non classée ou rue		

MICHIE CREEK
YUKON TERRITORY TERRITOIRE DU YUKON

Scale 1:50 000 Echelle

A2

A2 SAMPLE LOCATIONS



20-Oct-92 date

Assay Certificate

page 1

Geoff Rushant

WO#13791

Sample #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Cd ppm
A2S-4	17	<0.1	245	29	279	85	5	2.7
A2S-5	<5	0.1	69	16	117	72	4	1.1
A2S-6	20	<0.1	135	21	158	201	7	2.3
A2S-7	35	<0.1	121	22	118	153	6	1.7
A2S-10	64	<0.1	36	10	63	77	5	0.3
A2S-11	271	0.7	65	46	88	656	3	1.3
A2S-12	24	<0.1	51	41	117	157	4	0.9
A2S-13A	918	0.7	128	25	157	1188	8	1.9
A2S-13B	29	<0.1	25	28	75	139	10	0.8
A2S-14	803	0.9	83	12	147	108	9	1.1
A2S-16	11	1.0	67	7	75	96	3	0.4
A2S-17	<5	<0.1	19	8	80	70	5	0.8
A2S-18	18	<0.1	158	13	183	159	7	1.3
A2S-19	6	<0.1	34	9	82	115	3	0.5
A2S-20	<5	<0.1	26	7	51	76	2	0.3
A2S-21	<5	<0.1	19	5	45	71	1	0.1
A2S-22	<5	0.7	5	3	43	69	1	0.1
A2S-25	13	<0.1	45	21	101	102	4	0.6
A2S-23	8	<0.1	29	3	25	18	8	0.8
A2S-24	5	<0.1	9	<1	16	27	9	0.6
A2S-25	9	<0.1	17	3	14	20	6	0.4
A2S-26	5	<0.1	69	2	27	33	7	0.7
A2S-27	10	<0.1	58	2	17	23	4	0.6
A2S-28	19	<0.1	26	1	6	18	7	0.3
A2S-29	7	<0.1	7	3	15	21	7	0.5
A2S-30	12	<0.1	18	5	10	26	2	0.6
A2-1	349	1.0	74	22	81	703	13	1.2
A2-3	49	0.4	72	16	63	205	11	0.8
A2-8	7	1.0	81	24	53	133	22	1.2
A2-9	11	0.6	117	17	52	197	25	1.7
A2-12	6	0.9	74	14	35	103	21	1.0
A2-2 -100	781	1.9	76	14	62	1061	10	1.1
A2-2 +100	747							
A2-31 -100	84	1.0	149	11	75	298	9	1.4
A2-31 +100	83							
CA-33 -100	<5	0.3	105	11	75	170	40	1.4
CA-33 +100	<5							

Certified by

Chyo/Kci



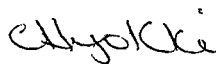
20-Oct-92 date

Assay Certificate

page 2

Sample #	Co ppm	Ni ppm
A2S-4	107	18
A2S-5	51	12
A2S-6	119	10
A2S-7	111	17
A2S-10	29	7
A2S-11	85	8
A2S-12	62	3
A2S-13A	232	5
A2S-13B	37	4
A2S-14	82	10
A2S-16	38	11
A2S-17	30	2
A2S-18	122	9
A2S-19	30	2
A2S-20	26	3
A2S-21	14	2
A2S-22	5	1
A2S-15	44	11
A2S-23	3	9
A2S-24	5	13
A2S-25	11	18
A2S-26	13	17
A2S-27	10	11
A2S-28	10	16
A2S-29	12	17
A2S-30	13	12
A2-1	25	153
A2-3	15	38
A2-8	24	18
A2-9	30	29
A2-12	22	27
A2-2	22	33
A2-2	-----	-----
A2-31	39	147
A2-31	-----	-----
CA-33	32	58
CA-33	-----	-----

Certified by




A2. Soils Description

A2S-4-7 LAKE SHOWING

4 SAMPLES + 5 Trench 4 - Re br + black

8/9/12 6 Trench 3 - Red rusty soil from vertical seam NE striking

7 Soil around silicified rock w/ stringers

A2S 10-11 SOUTH OF LAKE WEST STRIKING vertical seam in sheared diorite

2 SAMPLES

10 - Re br soil across 1 m + downslope of seam

11 - SEAM IN shearing Re or Ye material

Survey upslope (N-W) of showing

A2S-13A Upper soil Re br w/ fragments

-13B Lower soil Ye - Lt br

2 SAMPLES

Both ~~ditto~~ over (upslope) Trench 1

A2S-14 - Upper soil - 12" Re br (residual, with shist / argillite? fragments - over lt or till + stones

A2S-15 - 2-10" depth Re br residual soil probably immediate upslope origin

A2S-16 } 24" depth - Till and residual soil over graphitic shist

-17 } 6"-12" depth Re Or Br soil (colic. cl?)

A2S-18 - 12-24" depth Re Br sandy, ignit w/ shist fragments and Till

A2 Soil Surveys

A2S-19 12" depth Lt Olive Br to Re Br silt. sand
Mostly diorite grit & stones
— South Soils Survey —

A2S-20 } Upper soil to 6" Re Br to Lt Br sandy
+ grit angular fragments
- Till and Residual?

A2S-21 6"-12" depth Br - Lt Br sandy silt - sub
angular + rounded pebbles - stones
- More till than residual?
- 2/12 slope

A2S-22 Organic and Br silty sand over cobbles
- 6"-12" — Till + Local Colluvium
- 2/12 slope

A2S-23 12-18" depth Lt Ol Re Br sandy silt
- grit to angular - sub ang - rounded pebbles/stones
- local rock represented well
- 2/12 slope

A2S-24 4-12" depth Re Br sandy
Fragments Rounded / Sub ang pebbles - stones
A2S-25 24" depth Olive Re Br sandy
Same fragments. Many local.

A2S-26 3-12" Re Br sandy silt
A2S-27 24" depth Ol Re Br sandy silt
Fragments as previous samples
slope 3/12

A2S-28 24" depth Lt Br sandy silt
30% Ang + Sub ang fragments local?
2/12 slope

172 Soils DESCRIPTION

✓ 172S-29 2-8" Rc - RcBr sandy silt
ang / sub ang - Rounded pebbles and
ang cobble

172S-30 12-16" depth 80% Rocks Rounded
local? rock (diarite) pebbles - cobbles
Lt Br silt / sand.
4-5/12 slope

A2 Samples. - Rock

- ✓ A2-1 - Graphitic qtz cutting soft black graphitic rock. - rusty black selvages.
- lots of carbonate
- sample - soil + qtz - minor wallrock.
AU-349 AS-703 SB13 Ni153
- A2-2 Met - qtz stringers in altered? Diorite
- carbonatized, some silicification
- 50% re soil - rock sample occurs as blebs in this material
AU 781 1.9 Ag AS 1061 SB10
- A2-3 Black graphitic schist, carbonate - rusty selvages.
- some soil occurring w/ schist.
AU 49 AS 205 SB11
- A2-8 Met - qtz^{carb.} stringers - 10% in lt gray to brown altered diorite?
- py. 1%
AU 7 : CO 81 AS 133 SB 22
- A2-9 Sample 3" seam, qtz carb stringers in alt diorite + schist. including weathered rock soil
AU 9 CO 117 AS 197 SB 25
- A2-12 As A2-8 - black disseminated material in rock + qtz.
AU 4 AS 103 SB 21
- A2-31 Met - Flcat. Lt tan - rusty (bleached) rock - fine gr pervasive qtz flooding + stringers cutting rock + black stringers, some carbonate, malacostri-
spheres - pyrite to 1% 84 AU CO 149 AS 398 SB 9

CH-33 - float S of MJ 8/9.

Ultrabasic cut by qtz stringers.

Met . w/ Mariposite + pyrite - 5%

16-Jul-92date

Assay Certificate

Page1

Geoff Rushant

WO #13618

Sample #	Au ppb	Ag oz/ton
PK1A -100	35	102 464
PK1A +100	33	65 252

Certified by *CHyokki*





NORTHERN ANALYTICAL

Northern Analytical Labs. Ltd. FILE # 92-1801

Page 3



NORTHERN ANALYTICAL

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Ca	Sb	Bi	V	Ce	La	Cr	Nb	Ba	Y	Sc	Al	S	K	Na
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm
13618 231	1	191	8	82	13	192	37	931	5.00	210	5	ND	1	997	6	2	2	46	11.04	112	3	49	4.97	68	81	8	.29	1	.11
13618 232	1	14	6	10	5	1679	74	738	4.95	18	5	ND	1	21	2	2	2	17	.33	003	2	505	17.82	40	81	9	.06	1	.04
13618 2401	14	48	7	49	5	54	9	145	2.25	8	5	ND	6	18	5	2	7	81	.37	085	12	169	.89	494	12	11	1.05	1	.12
13618 9235	2	69	22	59	4	9	14	904	3.95	14	5	ND	2	172	5	2	2	101	15.41	149	9	46	1.09	24	81	2	1.77	1	.02
13618 9236	1	78	34	55	4	25	23	1029	4.57	14	5	ND	2	497	4	2	2	21	8.08	101	10	38	2.03	71	81	7	.52	1	.21
13618 9237	1	10	4	17	5	2245	105	986	5.76	9	5	ND	1	34	4	3	2	20	3.71	004	2	1085	15.19	103	81	17	.37	2	.01
13618 9238	3	87	19	39	12	11	9	413	4.00	17	5	ND	3	37	2	2	3	81	1.25	088	11	66	.91	181	17	6	1.73	1	.09
13618 9239	1	3	3	23	3	568	100	1203	6.58	105	5	ND	1	264	5	33	2	13	4.46	003	2	250	16.38	27	81	8	.15	1	.01
13618 9240	1	78	33	79	9	22	25	1349	4.88	163	5	ND	6	610	3	2	2	34	5.56	133	17	50	2.02	79	81	4	.75	1	.13
13618 9241	1	128	7	48	9	17	23	459	4.88	22	5	ND	1	57	2	5	2	113	1.45	051	3	35	1.35	41	26	16	2.59	2	.12
13618 9242	6	24	8	21	1	12	4	76	.66	10	5	ND	1	10	2	4	3	4	.08	008	5	187	.07	37	81	2	.14	2	.07
13618 9243	1	30	10	43	1	31	13	866	3.57	48	5	ND	1	381	2	2	5	57	7.23	045	6	50	1.48	52	81	3637	1.72	1	.05
13618 L921	46	47	6	71	3	13	3	89	.31	116	5	ND	1	148	2	7	2	5	3.06	049	3	5	.20	27	81	91	.20	2	.02
13618 S2403	1	63	7	91	7	149	24	340	3.49	7	6	ND	5	39	5	6	5	75	.39	044	10	122	1.23	191	14	10	1.91	1	.18
13618 S9231	1	33	11	43	5	63	13	381	3.00	9	5	ND	6	33	2	2	3	59	.52	026	15	81	.75	159	16	10	1.60	1	.16
13618 S9232	1	13	11	42	4	52	11	329	2.79	9	5	ND	4	30	2	3	2	58	.48	010	10	74	.54	164	13	9	1.52	1	.14
13618 S9233	1	12	6	39	3	34	7	273	2.33	5	5	ND	3	23	2	4	3	46	.38	028	9	52	.51	162	12	8	1.25	2	.07
13618 S9234	1	16	7	32	1	39	6	175	2.01	5	5	ND	3	23	2	2	2	46	.37	039	10	53	.66	147	11	7	1.60	2	.03
13618 S9235	1	36	12	78	5	75	17	832	3.13	12	5	ND	5	32	2	5	4	58	.56	053	13	90	.76	288	12	8	1.68	2	.10
13618 S9236	1	54	8	40	1	61	11	425	2.24	7	5	ND	3	82	2	2	2	42	2.46	045	12	60	.81	143	81	15	1.20	1	.05
13618 S9237	1	14	7	69	2	36	9	619	2.11	4	5	ND	5	22	2	2	3	39	.35	033	11	43	.42	254	81	6	1.29	2	.06
13618 S9238	1	21	9	41	1	45	9	429	2.33	11	5	ND	2	27	2	2	2	47	.32	021	9	53	.47	236	81	5	1.77	1	.03
13618 CS9201	1	30	7	35	2	36	7	672	1.97	5	5	ND	4	71	2	2	2	34	1.03	051	11	45	.66	126	81	10	1.00	1	.05
13618 CS9202	1	13	5	31	1	32	6	167	1.50	4	5	ND	3	38	2	2	2	32	.64	050	12	40	.58	95	81	7	.82	1	.02
13618 CS9203	1	19	5	40	1	47	7	255	1.70	4	5	ND	3	43	2	2	3	34	.88	041	9	51	.77	120	81	7	.90	1	.03
13618 CS9204	1	33	11	48	2	42	7	497	1.71	4	5	ND	3	63	2	2	2	33	1.03	058	10	49	.72	139	81	11	.96	1	.05
13618 CS9205	1	38	5	35	1	32	7	975	1.76	2	5	ND	3	81	2	2	2	27	1.40	065	10	41	.59	142	81	12	.90	1	.04
13618 MC233	1	12	5	42	1	34	7	978	1.75	4	5	ND	5	62	2	2	2	30	.75	071	13	47	.59	142	81	5	.89	1	.04
13618 MC2404	1	11	3	47	1	27	7	1138	1.76	3	5	ND	5	54	2	2	2	29	.65	066	14	41	.57	138	81	5	.92	1	.04
13618 MC2513	1	26	5	61	1	45	6	247	1.78	2	5	ND	2	90	2	2	2	32	.97	075	13	45	.68	138	81	7	.95	1	.05
13618 MC2601	1	9	6	48	1	27	6	814	1.77	2	5	ND	7	50	2	2	2	31	.67	076	20	42	.53	124	81	5	.89	1	.05
13618 MC2603	1	34	10	78	3	52	9	1445	2.56	12	5	ND	3	207	3	2	2	30	2.31	096	11	44	.82	286	81	13	1.23	1	.11
13618 MC2604	1	44	8	39	1	39	5	338	1.48	2	5	ND	1	434	4	2	2	16	3.90	101	7	51	.55	243	81	21	.71	1	.05
RE 13618 MC2404	1	14	5	46	1	29	7	1170	1.89	4	5	ND	6	62	2	2	2	31	.75	078	15	45	.60	145	81	4	.98	1	.06
13618 MC2603	1	27	7	60	2	47	8	850	2.53	5	5	ND	5	148	2	2	2	34	1.66	085	14	52	.78	246	81	9	1.23	1	.11
13618 SC231	1	25	6	41	3	91	9	678	2.06	6	5	ND	4	263	3	2	2	31	6.61	100	10	50	1.23	176	81	26	.99	1	.10
13618 SC233	1	10	5	39	1	35	7	637	1.65	3	5	ND	5	51	2	2	2	29	.70	062	12	46	.62	116	81	5	.87	1	.05
STANDARD C	17	58	37	132	7.14	71	32	1040	3.96	12	18	7	38	52	19	13	19	55	.48	090	37	58	.88	176	81	35	1.87	1	.16

Sample type: PULP. Samples beginning 'RE' are duplicate samples.

P.005/010

TO NORTH, ANALYT

FROM LUE ANALYTICAL

JUL-16-1992 12:26



Northern Analytical Labs. Ltd.

FILE # 92-1801

Page 4



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Ca ppm	Sb ppm	Bi ppm	V ppm	Ce %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	Si ppm	
13618 SC2604	1	7	4	35	1	23	6	1021	1.68	5	5	ND	9	47	2	2	2	30	.57	.061	16	39	.47	122	.06	4	.74	.02	.04	1	
13618 SC2602	1	6	2	33	1	22	6	345	1.39	5	5	ND	5	36	2	2	2	28	.50	.058	16	38	.47	84	.07	3	.75	.02	.04	1	
13618 SC2604	1	42	2	44	1	30	5	155	1.38	18	9	ND	1	254	2	2	2	25	2.12	.077	10	55	.55	197	.05	12	.86	.02	.06	1	
13618 SL14A	3	5	4	23	1	9	3	580	.84	5	5	ND	8	27	2	2	2	5	.38	.015	8	78	.05	264	.01	5	.20	.06	.08	1	
13618 SL14B	10	48	333	237	10	10	3	530	2.17	66	5	ND	45	5	1.0	2	3	28	.03	.007	3	153	.02	58	.01	3	.13	.02	.08	5	
13618 WL400	2	49	2	65	2	880	53	971	5.13	232	5	2	1	636	2	31	2	36	4.79	.062	3	376	7.29	57	.01	5	1.13	.01	.07	1	
RE 13618 GCM-1	1	16	2	36	1	26	6	607	1.38	9	5	ND	2	67	2	2	2	25	.92	.067	11	43	.51	120	.05	2	.76	.02	.05	1	
13618 WL410	4	10	11	36	3	59	11	948	2.73	94	5	ND	1	1147	2	2	2	13	6.30	.06	4	107	2.73	49	.01	5	.15	.01	.06	2	
13618 GCM-1	1	12	5	31	1	19	5	224	1.14	2	5	ND	3	50	2	2	2	22	.64	.047	11	35	.43	90	.05	2	.66	.02	.03	1	
13618 GCM-2	1	8	2	31	1	17	5	346	1.10	5	5	ND	3	40	2	2	2	23	.58	.053	13	32	.43	97	.04	2	.70	.02	.03	1	
13618 GCM-1	1	14	3	36	1	23	6	593	1.36	8	5	ND	2	63	2	2	2	25	.91	.066	12	42	.48	114	.05	5	.76	.02	.05	1	
13618 GCM-2	1	14	2	34	1	20	5	549	1.23	4	5	ND	2	54	2	2	2	24	.78	.064	14	37	.44	121	.05	2	.74	.02	.05	1	
13618 1C106	5	808	20	43	10	1468	299	406	35.05	124	5	ND	1	8	2	3	2	44	1.10	.003	2	65	.25	9	.01	27	.10	.01	.01	2	
13618 26NR1	2	6	17	34	1	15	4	354	1.40	28	5	ND	7	78	2	2	2	4	.73	.029	18	66	.28	94	.01	6	.34	.06	.17	1	
13618 27M-5	1	19	2	25	1	66	5	162	1.70	10	5	ND	3	33	2	2	2	31	.36	.012	11	41	.49	93	.07	2	.98	.02	.04	1	
13618 F1A	1	5	2	54	1	2413	115	829	5.97	5	5	ND	1	3	2	2	2	14	.09	.003	2	423	21.40	7	.01	20	.27	.01	.01	1	
13618 PK1A	3	14954	29310	43836	234	8	9	11	5552	4.56	22	6	4	15	46	352	3	20	25	.47	.044	6	30	1.05	40	.05	30	2.18	.07	.07	1
STANDARD C	19	57	40	133	7	70	31	1073	3.97	41	16	7	40	52	18.6	14	19	60	.48	.090	39	58	.89	178	.09	35	1.88	.07	.15	13	

Sample type: PULP. Samples beginning 'RE' are duplicate samples.

13-Jul-92date

Assay Certificate

Page2

Goeff Rushant

WO #13619

Sample # Au ppb

GCB-2	492
GCM-2	132
GMC-2	14
S2403	1005
SC2404	1631
MC2404	11
MC2513	25
MC2601	7
MC2603	17
MC2604	9
NC2603	>6667
SC2602	27

Certified by *Chyokici*



13-Jul-92date

Assay Certificate

Page1

Goefi Rushant

WO #13618

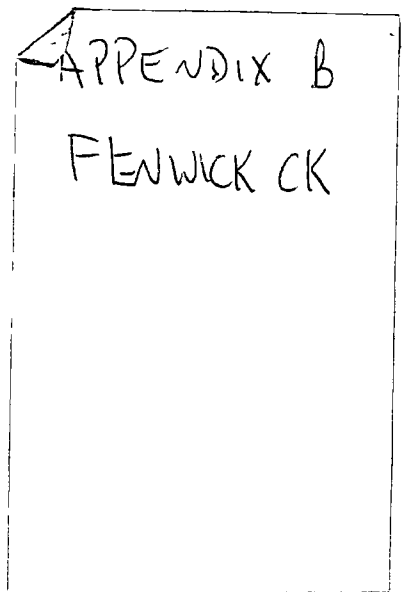
Sample # Au ppb

9235	5
9236	<5
9237	<5
9238	6
9239	<5
9240	33
9241	<5
9242	<5
9243	22
1C106	7
F1A	6
2401	31
231	5
232	7
26NR1	<5
WL410	31
WL400	6
SL14A	13
SL14B	39
S9231	14
S9232	395
S9233	43
S9234	5
S9235	18
S9236	8
S9237	8
S9238	7
L921	unable to fuse
CS9201	10
CS9202	13
CS9203	8
CS9204	169
CS9205	15
SC231	<5
SC233	<5
MC233	7
27W-5	10
GCB-1	14

Certified by

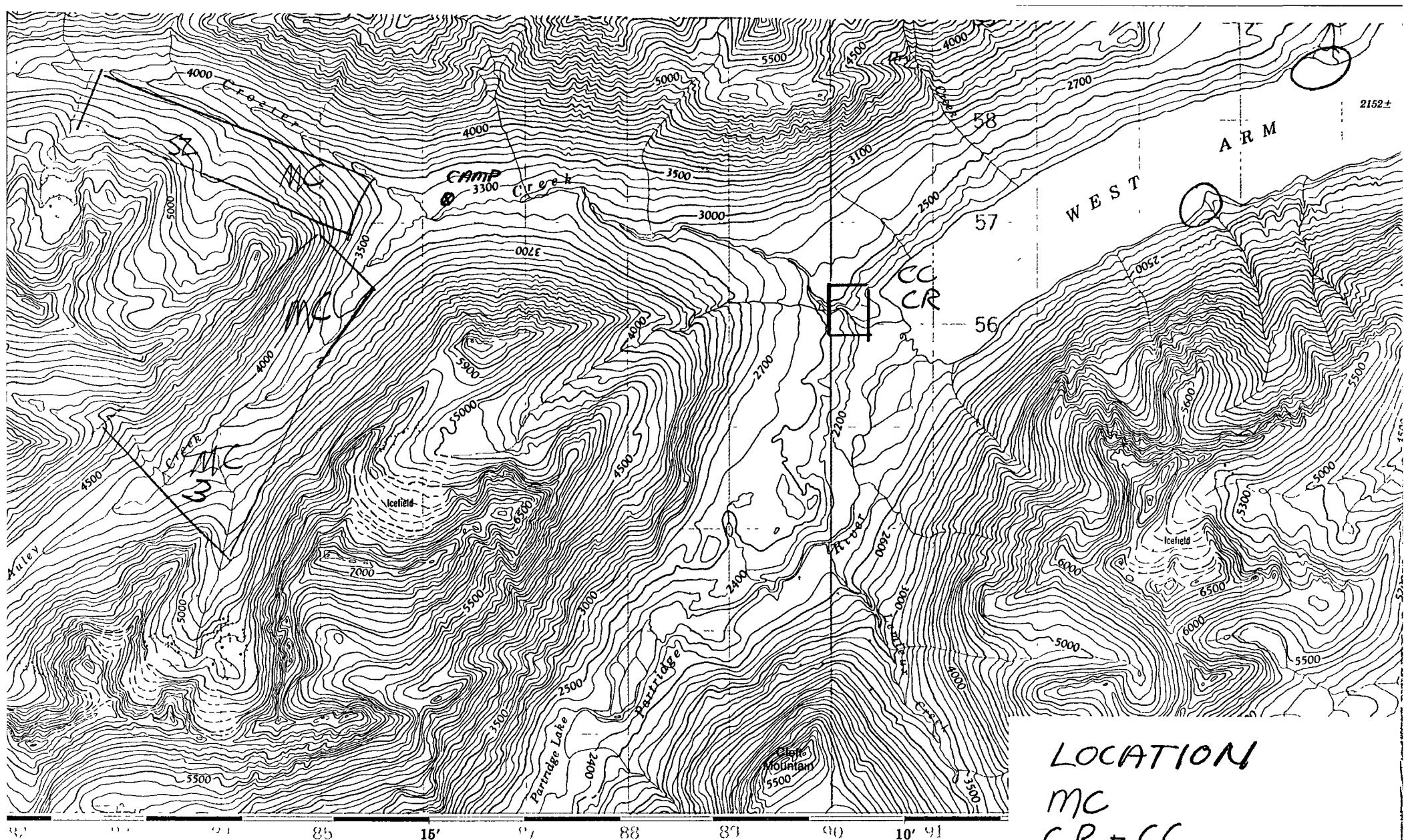
Chyokki





APPENDIX B

FENWICK CK



LOCATION
MC
CR + CC
PROJECT AREAS

FENWICK CREEK 105 D/3 YUKON TERRITORY TERRITOIRE DU YUKON

Information concerning bench marks and
be obtained from Geodetic Survey, Survey

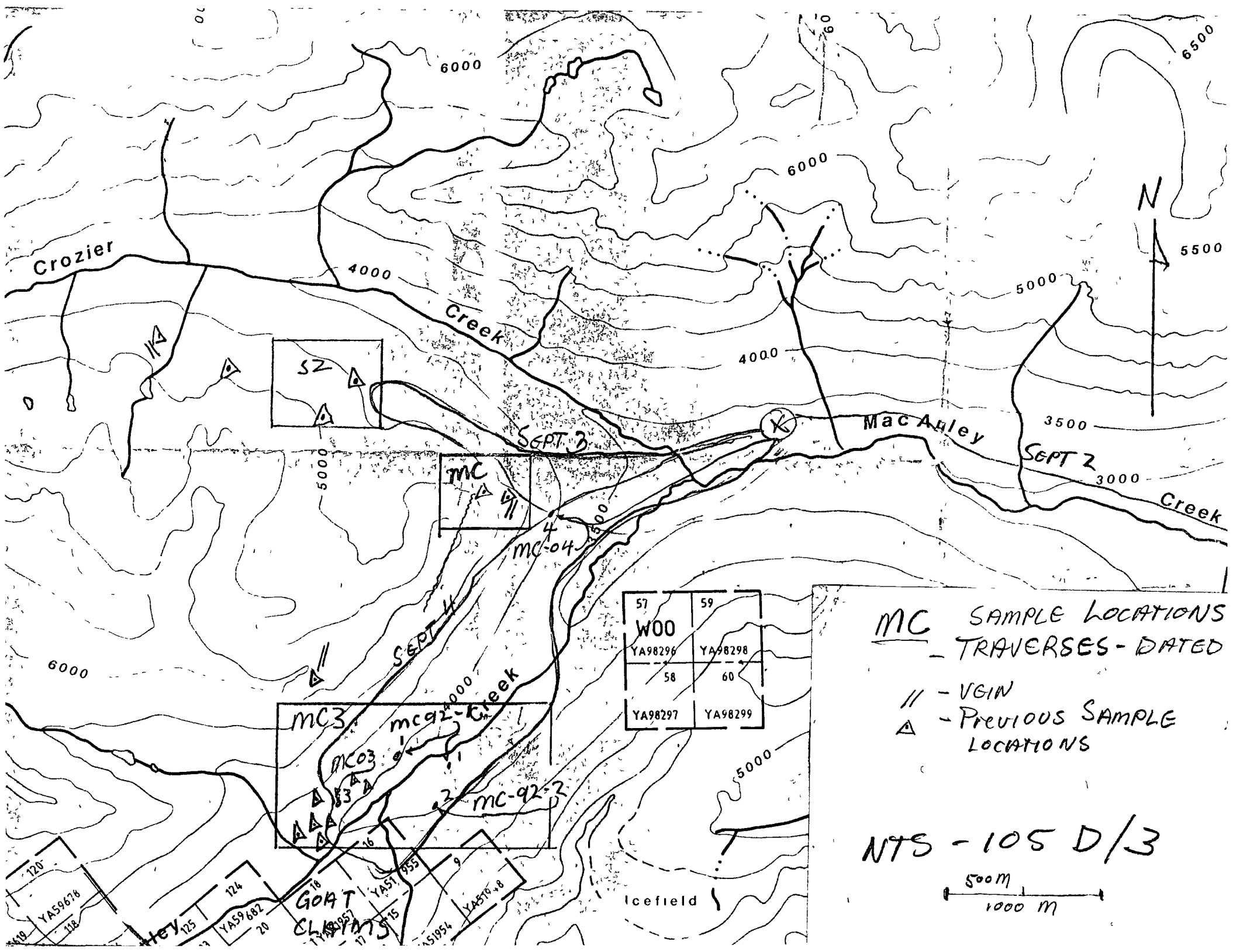
CONVERSION SC

Metres 30 20 10 0
Feet 100 50 0 10

CONTOUR II
Elevations in Feet
North American
Transverse I

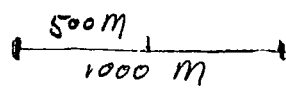
Scale 1:50 000 Échelle

Miles 1 0 1 2 3 Miles
Metres 0 1000 2000 3000 4000 Metres



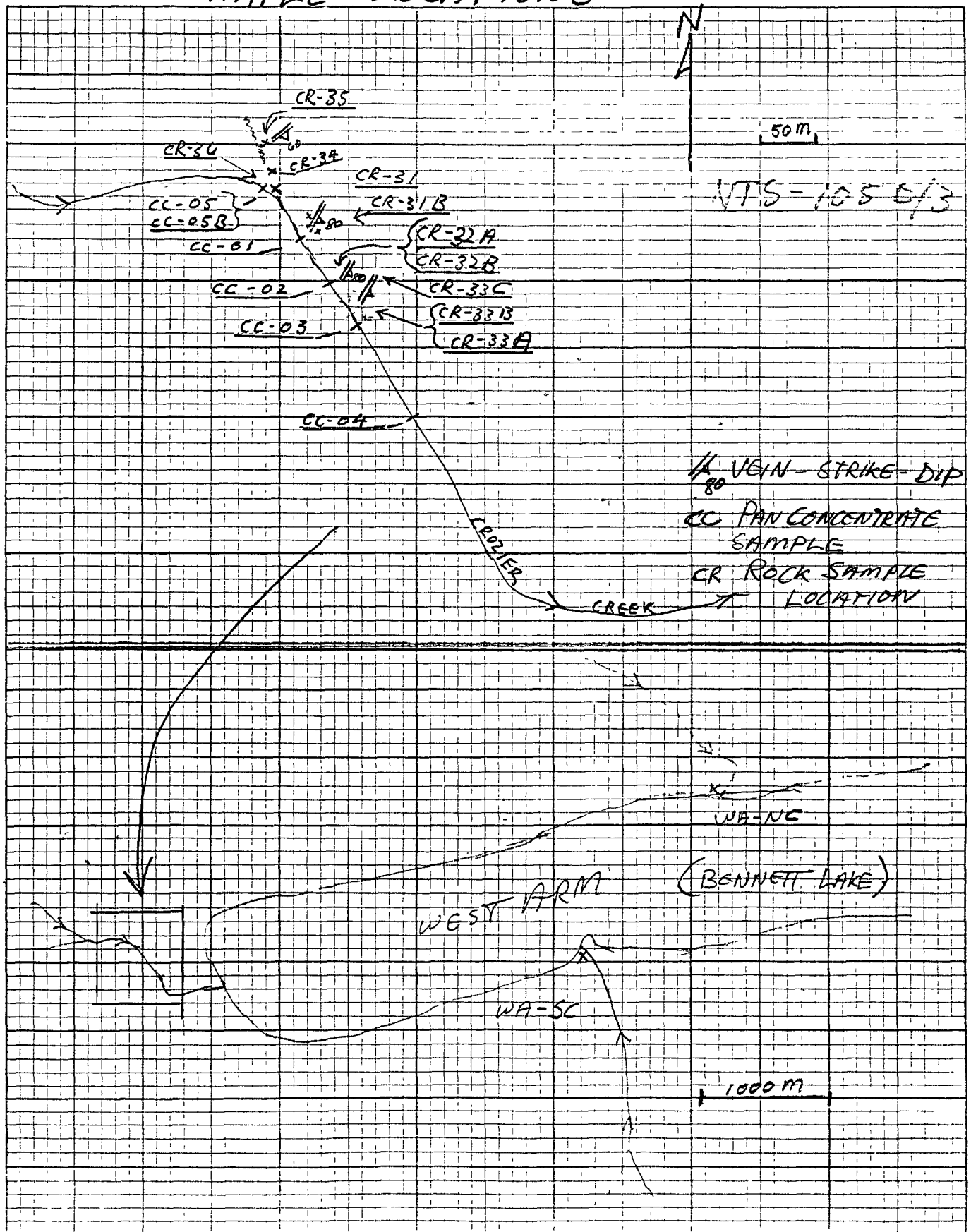
MC SAMPLE LOCATIONS
- TRAVERSES - DATED
// - VGIN
Δ - PREVIOUS SAMPLE
LOCATIONS

NTS - 105 D/3



SAMPLE LOCATIONS

CR AND CC



MC SAMPLE DESCRIPTIONS

MC-92-1 - Representative of an abundant float - white qtz (rhyolite) with gray/white chalcedony stringers (flow banding)?
- rusty cross cutting fractures.

MC-92-2 Qtz chalcedony and breccia.
- minor rusty selviages.
- float.

MC-03 'Floury' qtz (rhyolite) with greenish crystals and discoloration (flow bands?)
- minor carbonate with rusty patch 1 cm wide. - float

MC-04 Gray-green qtz vein float.
- vuggy, not textured.

SAMPLE DESCRIPTIONS

CR - Crozier Canyon Sept 22 - 26

Rock Samples

CR-31-A - Representative chips across .75 m
North side to middle. Rusty to
Greenish qtz. Cockade text. vuggy
- Black amorphous veinlets up to 5%
- Fluorite 20-30%

CR-31-B - Representative chips across .75 m
SE side vein. - Orange-tan
argillic altered pink qtz feldsp porphyry
w/ chalcedonic stringers + qtz
Fluorite vein material 25%

CR-32-A. Chips across 1.5 m Orange
rusty argillic qtz, Fluorite
w/ qtz veinlets

CR-32-B - Vein 'core' material .25 m.
Qtz - vuggy - rusty w/ Fluorite

CR-33-A - Rusty - vuggy qtz +/- Fluorite
+ black staining - veinlets to
5 cm.

CR-33-B - Lt orange rusty argillic
QFP? at x cutting shear
w/ qtz veinlets - chips across
1 m.

CR-33-C - Vein - qtz rusty / argillic
+/- Fluorite } across 1.5 m
- top of canyon over 33 A + B.

CR - CROZIER CANYON

Rock SAMPLES.

CR-34 Float below CR-35 Gully.
Green - altered medium grain
Granitic? or tuff rock in qtz/carb.
veining - 1% py

Av. CR-35 Vein material - qtz +/- fluorite
across 0.5 m - Argillic gouge
material. Strike N50E.

CR-36 Representative sample of float
in crk. from above area worked
in.
- white and greenish qtz and
softer green material
- minor dark minerals - amorphous.

CROZIER CANYON CC.

Pan Concentrates

CC-01 - CC-05 To test for presence of and relative abundances of precious and base metals below, in and above Crozier Canyon.

WA-NC and WA-SC - similar concentrate samples from two other creeks draining an area on the edge of the Bennett Caldera. These are for a relative value and potential exploration.

22-Oct-92 date

Assay Certificate

page 1

Geoff Rushant

WO#13836

Sample #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm
CR-31A	375	<0.1	<1	45	64	15	11
CR-31B	688	<0.1	<1	21	57	42	7
CR-32A	16	<0.1	<1	37	66	44	6
CR-32B	18	<0.1	<1	259	73	46	14
CR-33A	33	<0.1	<1	511	283	61	<1
CR-33B	10	<0.1	<1	21	71	66	2
CR-33C	325	<0.1	<1	17	17	55	2
CR34	16	<0.1	<1	30	33	101	25
CR35	1151	<0.1	71	63	223	77	<1
CR-36	72	<0.1	<1	30	24	76	<1
MC-03	1820	<0.1	<1	206	224	78	<1
MC-04	50	6.3	2	84	55	87	<1
WA-SC-1	18	<0.1	<1	25	61	141	<1
A-NC-1	<5	<0.1	3	3	35	122	<1
LC-01	1307	<0.1	13	16	67	155	<1
CC-03	13	<0.1	9	9	59	157	<1
CC-05	145	<0.1	17	21	71	191	<1

Certified by *Chyokki*



22-Oct-92 date

Assay Certificate

page 2

Sample #	Ni ppm	Co ppm	Cd ppm
CR-31A	4	1	0.1
CR-31B	6	<1	<0.1
CR-32A	8	<1	<0.1
CR-32B	6	3	0.5
CR-33A	7	<1	0.6
CR-33B	9	<1	<0.1
CR-33C	7	<1	<0.1
CR34	11	7	1.4
CR35	9	1	0.4
CR36	13	1	<0.1
MC-03	25	1	0.4
MC-04	35	1	<0.1

Certified by

Chyorki



21-Sep-92 date

Assay Certificate

page 1

Geoff Rushant

WO#13768

Sample #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Ni ppm
MC92-1	17	5.6	152	72	296	43	91	
MC92-2	190	3	6	64	88	74	148	
NC04	72	<0.1	25	18	59	26	16	5
NC05	62	<0.1	41	15	53	29	9	2

Certified by *Chyokti*



21-Sep-92 date

Assay Certificate

page 2

Sample #	Co ppm	Cd ppm
MC92-1		
MC92-2		
NC04	8	0.1
NC05	5	<0.1

Certified by

Chyokki



1992
① June 15 Marsh 1

△-92-△ - R sample 5

2600' on crk. Rusty outcrop.
volc. - w/ pyr. / m. magn.

2 Fl syen. 2920 Near

3 Fl. bleached 2960

crk strk 240° SSW

- fair amount on N slope
crk.

150' → Top of cliff S side crk

4 Basaltic float. 3000' N

slope

5 S side crk - 1st outcrop

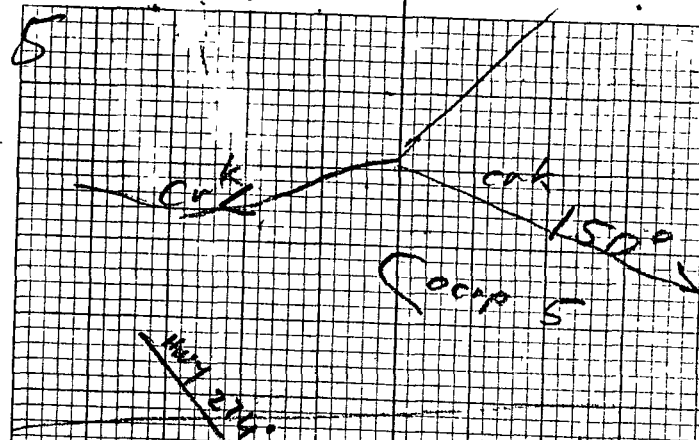
6 outcrop - N-S Bluffs steep
dip west.

6.5 Sample gray qtz/carb w/
List.

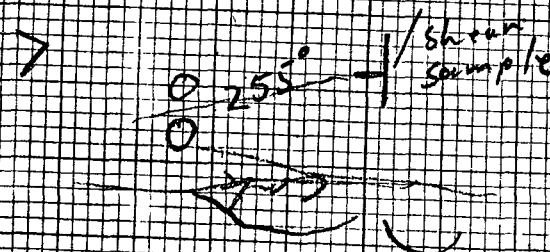
- Float, non rounded.

- Flagged about site.

7 Shear sample carb/
mar. / black stuff
RON SAMPLED.



6 1/2 Bluffs



DAILY DIARY

June 15

8 Row - S Sample in gully

F9 sample, float Ck South
3360' Angular
rusty Mn oxide

Soil 92-9 - Redish rusty

~~501~~ Soil - Rocky slope

59238 1' deep → bed rock

10 2650 Outcrop

sample GR + REN

Similar to #5

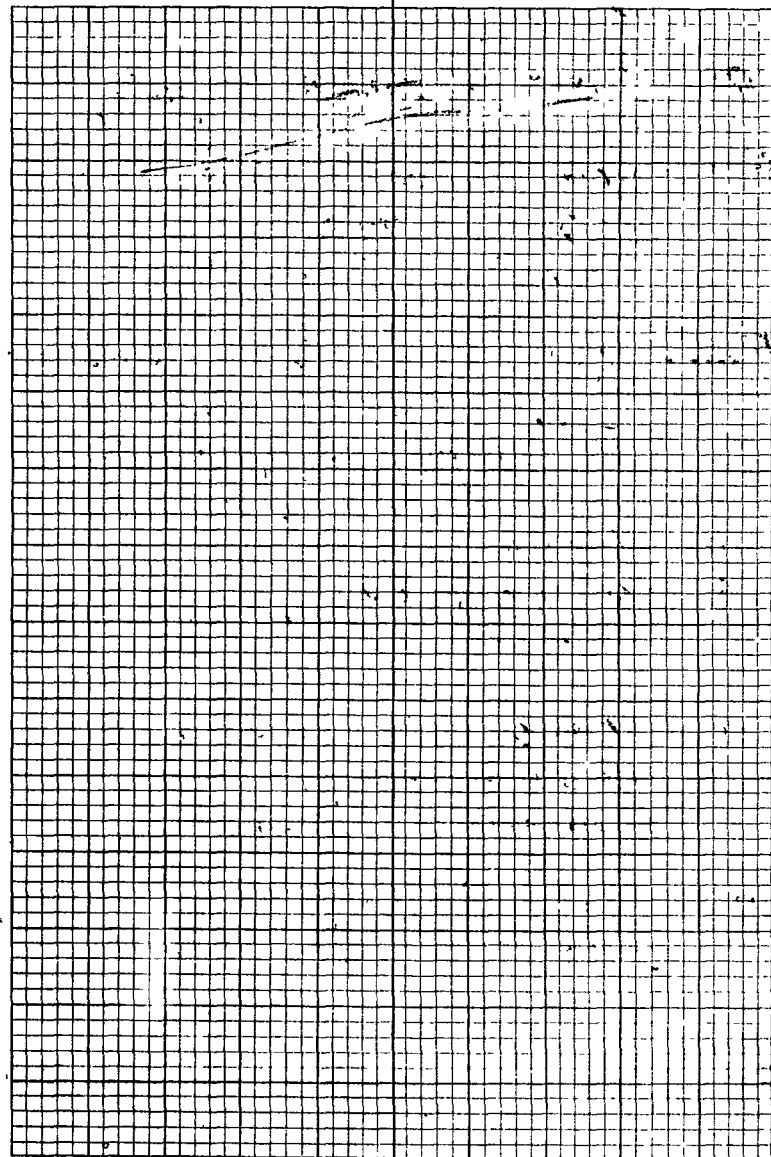
11 Gram Pit 2600

N side crk 2.

limonitic outcrop

ALT 2140 AT Home

938 M13 same as AM



②

June 16 ATN 925
2620 ft ALT.

Run line from creek up stream
EAST from camp 175 M
OE 0+00 S → OE 4+50 S
at S side 2ND pond

L921

Sed Sample - Sulphur smelting
9215 organic and silty mod.

ST6021

9225 Doubtfull sed sample
ST6030 from swamp drainage

CS9201 - from active part
- silt on top of moss

9253 - Silt from active
ST6040 creek across right.

CS9202 - bars on top of moss

CS9202

9253

CS9203

CS9201

Swamp Pond

Sample 9215

5

③ Sunny Camp Am 925
June 17

Pan in crk.

- Pyritic outcrop N of creek camp to drainage NW of OE OS
- Qtz + rusty spot Blat NW 100 m. / OE OS.

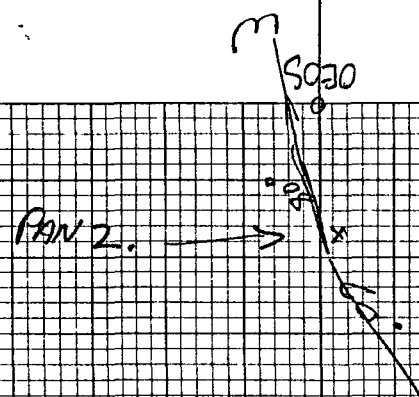
Trail 80°

El 2740 creek steeper 60°

Sampl. gravelly some black
concentr. sand - Sample 2.
need more

Pan Conc #1 At camp location. Couldn't
get much black sand from
creek bed - mostly sandy/silt
on moss.
need more.

Camp loc.
Silt Samp Silt sample from active
9254 part of creek, across 5' r.
51705C
CS9203



db

④ Sunny, ATM 9.21
June 18 Re set from 2740

Ben OE+OS - + 100m upstream
conc. #2

6-7 pans in all from
gravelly bottom.

El. 2720' at 918.

- Rons VG site.

31 Ang float - Diorite
w/ Biotite

S9231 Soil sample lite brn
silt/diat

- color same to 1' depth.
- ang float

S9232 Reddish soil, having
over round boulder
/ cobbles - under
pocket of volc ash.

32 Dark dioritic? pgn
magn. lg boulder
on outcrop. - as

25 by Lake Lawlts

S9233 Slight change in slope
dip to 350°

- Reddish soil over ash
sampled 1+ brown soil under
w/ sub rounded rocks

OE
+ OS →

1650

11

50 100

S9231

S9232

S9233

#33
carbonated
mafic (shar)
rock. float?

Breath in slope
change
350°

June 18

outcrops in open slope
structure (strike) N-W 10

2820 Dip steep W.

34 { -some w/ biotite
-some magnetic

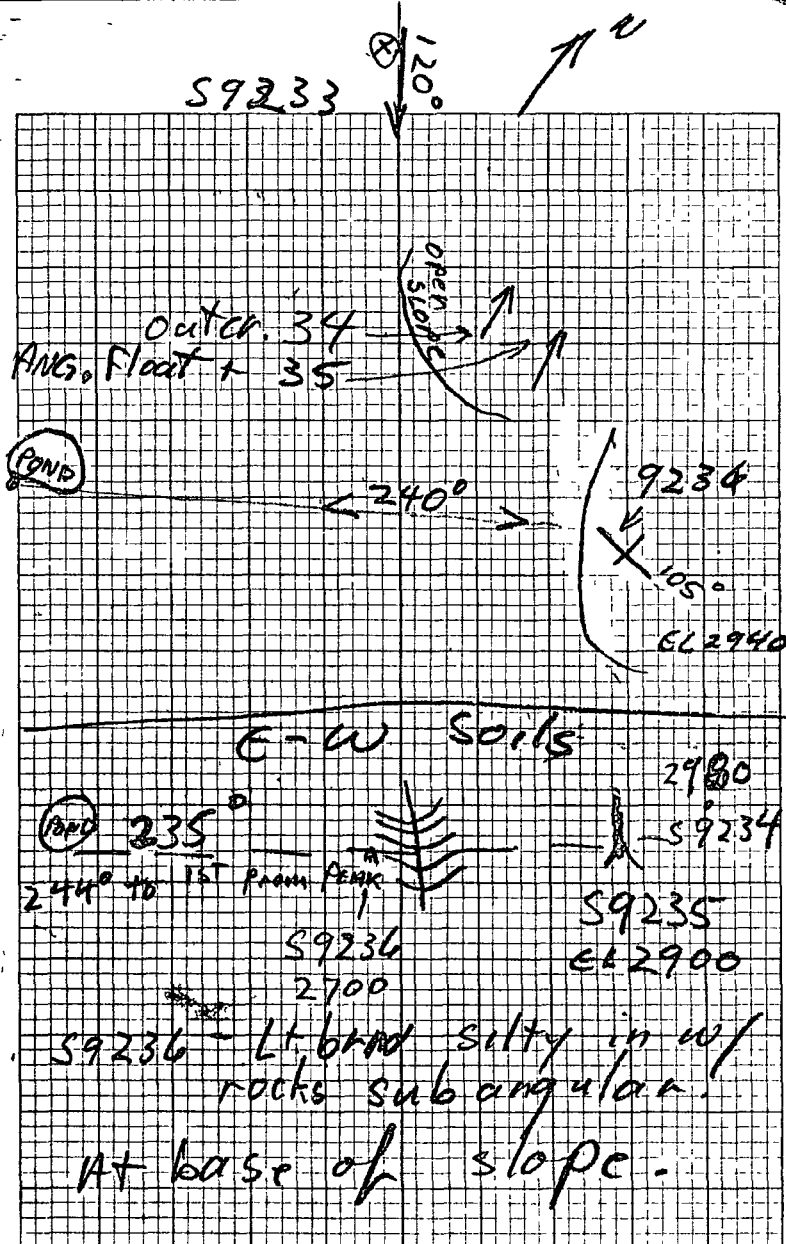
35 ANGULAR carb / mafic / qtz
Float rusty

Float dark grey / fine grain
w/ qtz stringers every
which way,

non biotite / non magnetic
SAMPLE Material Brown & cut
9236 structure at 105°
qtz / carb + green platy
mineral

S9234 Soil, lite brown clay / silt
in shallow gully N trend.
El 2960.
- cobbles & boulders (crushed)
in hole.

S9235 Red brown dirt soil on
slope over ang. rock
Bag 5.



June 18

S9237 Soil - reddish
under ash layer.
El. 2720' Sample 1 lb
silty soil.
- Rusty outcrop
dark dioritic pyritic
rock N 30' from sample

9238 Gossanous N trend
outcrop. w/ qtz (float).
Seen across 70m +/-

~~GC9238~~ - Silty sample from
active crk. on moss

CS9205

CS9204 - ~~A~~ - lower crk moss mat
sample - 91

*

June 19

Sort samples

- sample descriptions

- Break camp

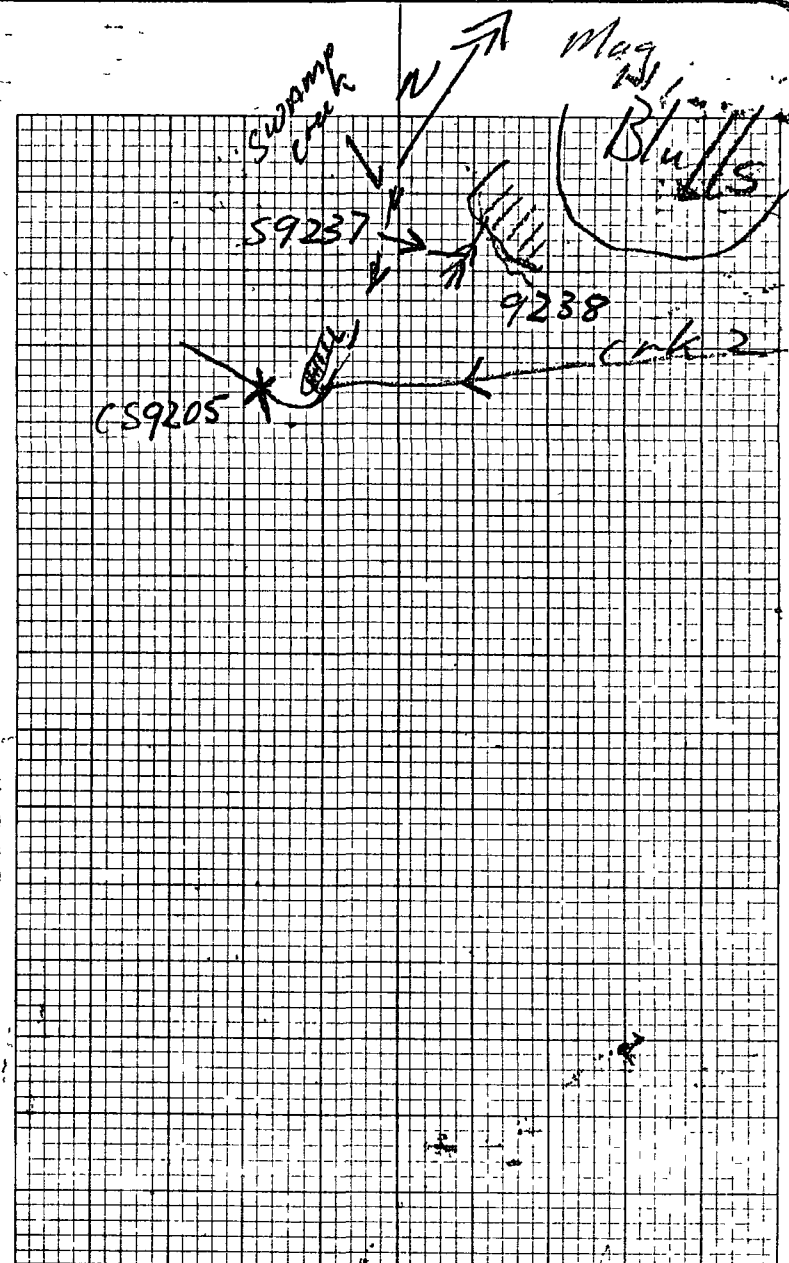
JUNE 19th Travel

1 (G.M.)

W. L. R.

J. L. DARLING CORP
JACKSON, MS 39211

No 312



7 RASPBERRY +
June 23 Strawberry patch.

Gravel pit just N of Elbow
creek.

- Looking for access to
area East of Caribou Lk.

- Found 2 ^{Rusty} Qtz / Manganese
boulders?

- They look rough on outside

- South boulder quite friable

- if not outcrop, might
not have come from here.

- Other boulders in area:

R? - platy, wavy black volc
w/ Qtz

R? - dark green volc as further
north.

R - grayish black 'schistose'
rock

R - pea green volc

R - Volc bx

R - Rounded granitic

Most boulders - greenish to
black volc.

R - congl. green/gray sand/gravel

June 23

- Went looking for
outcrop along top
of ridge.

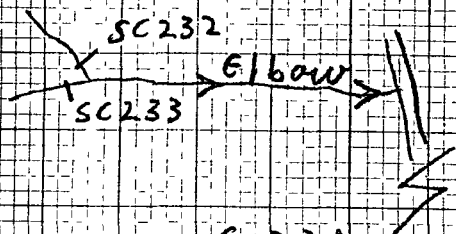
- Checked any rock seen
- much old cat activity
some trenching - mostly
on aspen slope towards
Marsh Lk SW

- All trenches seem to
indicate till to at
least six ft

- Gravel pit may form
off lee side of slope
No convincing outcrop
seen anywhere

June 23

SAMPLES.



SC231

SC232 - Gray flood silt from active swampy cove (bars)

* SC233 - Flooded creek sample of flood silt
2 samples on moss benches in + by creek

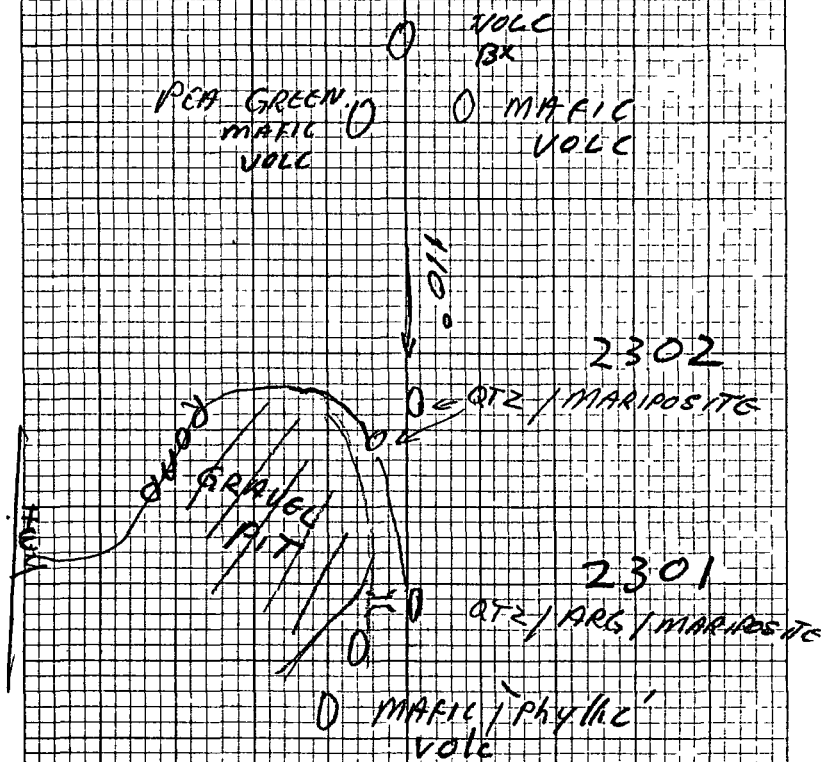
* - Moss sample

SC231 - Sample of soil silt under moss over + from gravel

- All these to test for potential along trend? of qtz blow (outcrop)

- Representative of bar area.

June 23



June 23

Silt/Soil Sample
from small active
drainage - under moss
layer / over gravel
SC1231

Rock - Tan qtz bx w/ qtz
(float) stringer

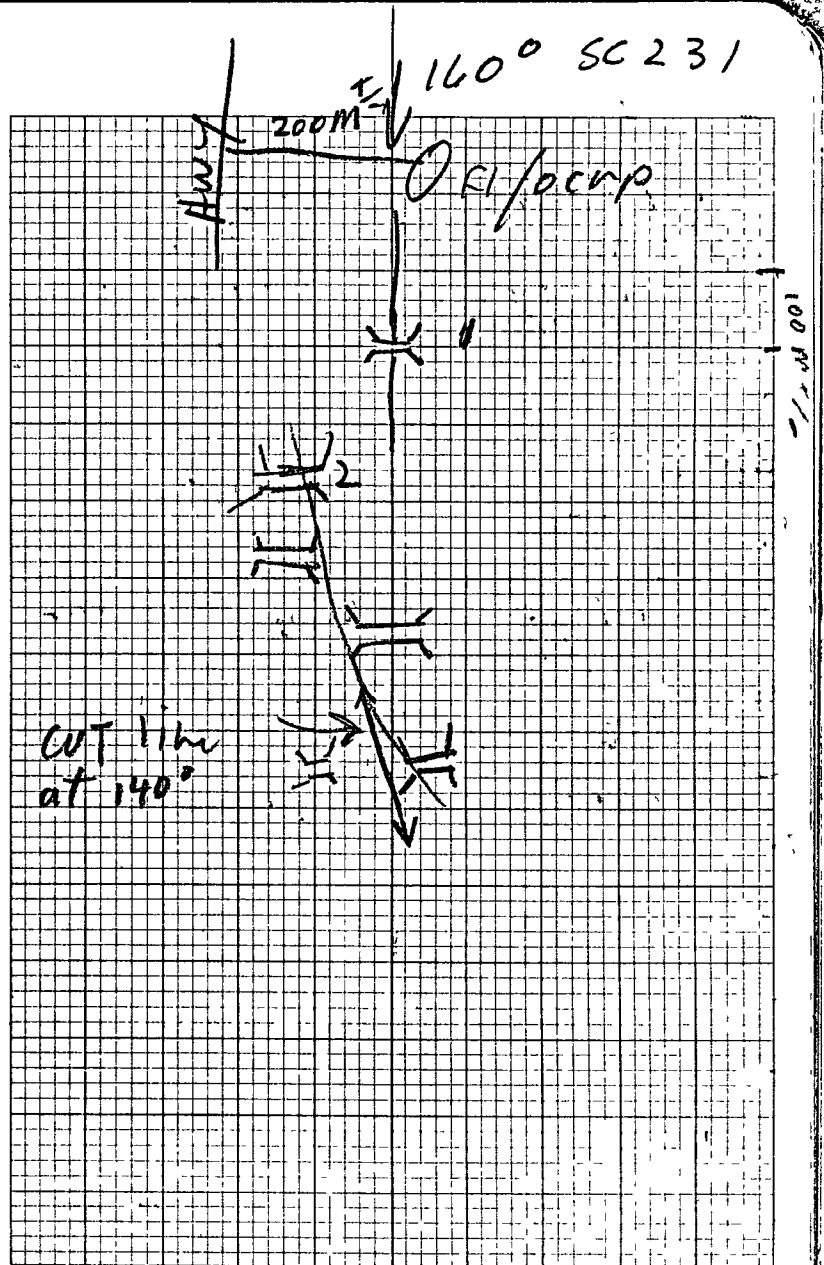
① OLD Trench 6' Deep + - bottom
in till

② Trench on poplar slope 3-4'
Bottom in beach sand.

③ - SAME

④ -

Quite a few more along
same contour + -
140° +/-



Rock Samples

June 23

2301 Qtz carb ^{minor} Mani posite
bleached (volc)? w/ black
hard (chalcedony?) inclusions
* - As float behind NE of
15' area - BX

2302 Qtz carb Mani posite

Both to see if any min
values before trying
to find source. ✓

Representative samples
of other boulders in
area.

R- Same white & rust spots
as rock at lake showing
as at North Shaving

7 June 24 936 mb AM.

Explored a series of old logging roads leading generally west NW looking for access. They deteriorate.

Geo - Series of what appear eskerlike little ridges

R - One truck size boulder of 'Ultra meta' black +

R-24-1 rusted 'schistose' rock

Geo - Eskers appear to form a N → NE lineament

R-24-1 Graphitic - shiny as at Lk showing?

SAMPLE Rusty grayish $\text{qtz} + \text{limonite} + (\text{BX}?)$

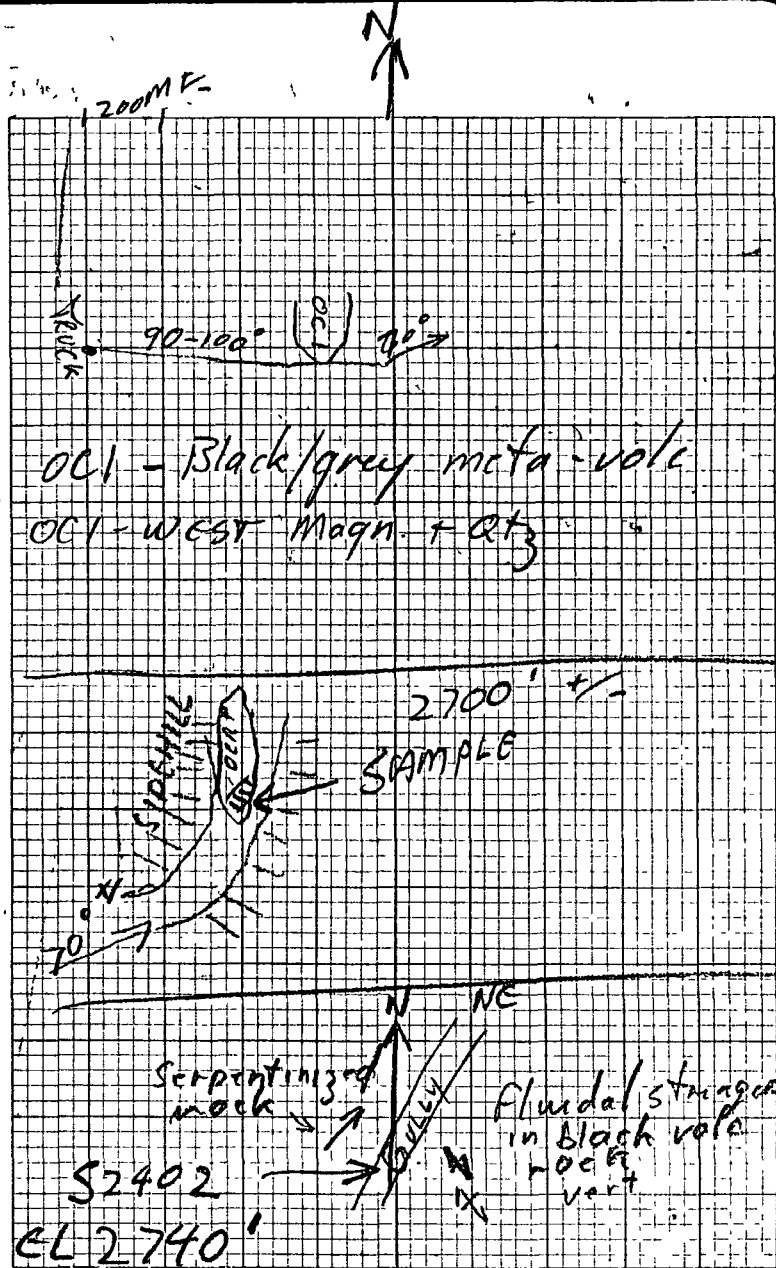
2401 Sampled intermit. across 10-12' - Host rock N gray black schistose

- Seeming strike N - N20E

R - 2401 + 250 N

Outcrop - Banded / schistose black linegrn w/ white stringers general trend North

S2402 - Soil sample in gully black About 1 1/2' down 10" into frozen ground. 8" below (ash?)



June 24

Gully cont NE up from

S2402

- Another Gully comes in
at 360°

- Outcrop mafic/carb
sheared at 360°

S2403 Soil sample taken
below ash layer
over angular pebbles
lt redish tan

CAMP

918 mb

Creek same as below (fast)

EL2820

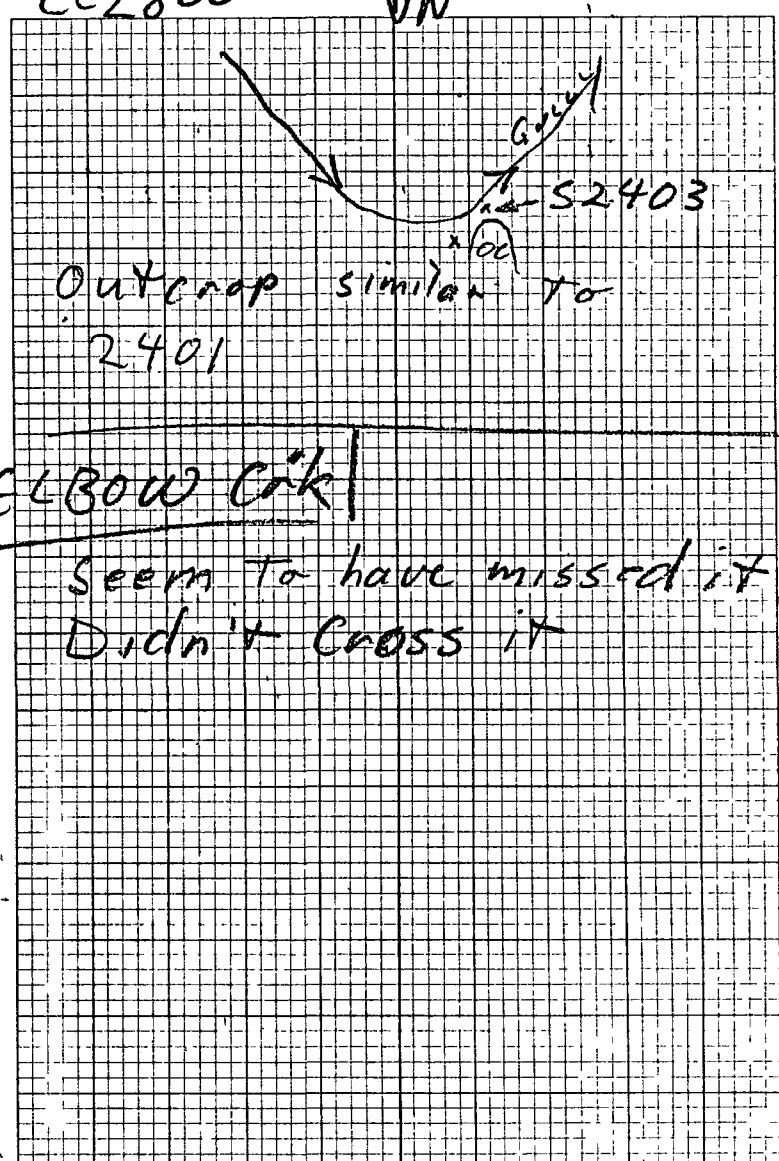
Deep (3') narrow (4'-6')
Moss + Willow banks

SC2404

Flood silt on moss on
banks.

919 mb,
EL2800

↑ S
↓ N



Outcrop similar to
2401

ELBOW Crk

Seem to have missed it
Didn't cross it

June 24 Summary

- Outcrop encountered in gully
- foliation tends to vertical with qtz in fol. planes.
- 2 outcrops had more rust + qtz or silicification
- more brecciated

2401 - on v sheared outcrop

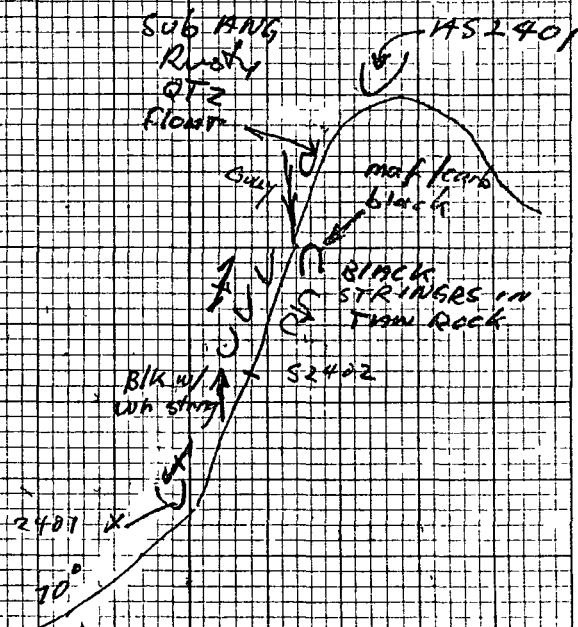
rusty

- Most volc rock has black line grain - foliated variably usually trend N.

- One exception mid NE traverse in gully the white stringers turned to black seemingly cross cutting general fabric - N - NW trend
- Outcrop intermittent
- some slickensides - serpentinization greenish and whitish (cummingtonite?)

Suggesting mostly lateral NW-S (NE-SW) movement.

June 24



June 24

- Seems to be lots of till.
- will try sampling lines across mag hi gullies / benches.

Mag. - 2 of 6 specimens from outcrop along NE trend gully are magnetic.

- They appear to be v dark - black - fine grain.
- one is somewhat serpentized showing fol. along lenticular plane. w/ infilling serpentine perp. to other fol.
- other shows some fol -

THE
L. J. DABLING CORP.
TACOMA, WA 98401

NO 362

8 June 25 918 mb
 EL 2820'
 - Sunny / o'cast
 - Clouds hazy → wispy drift
 from WNW

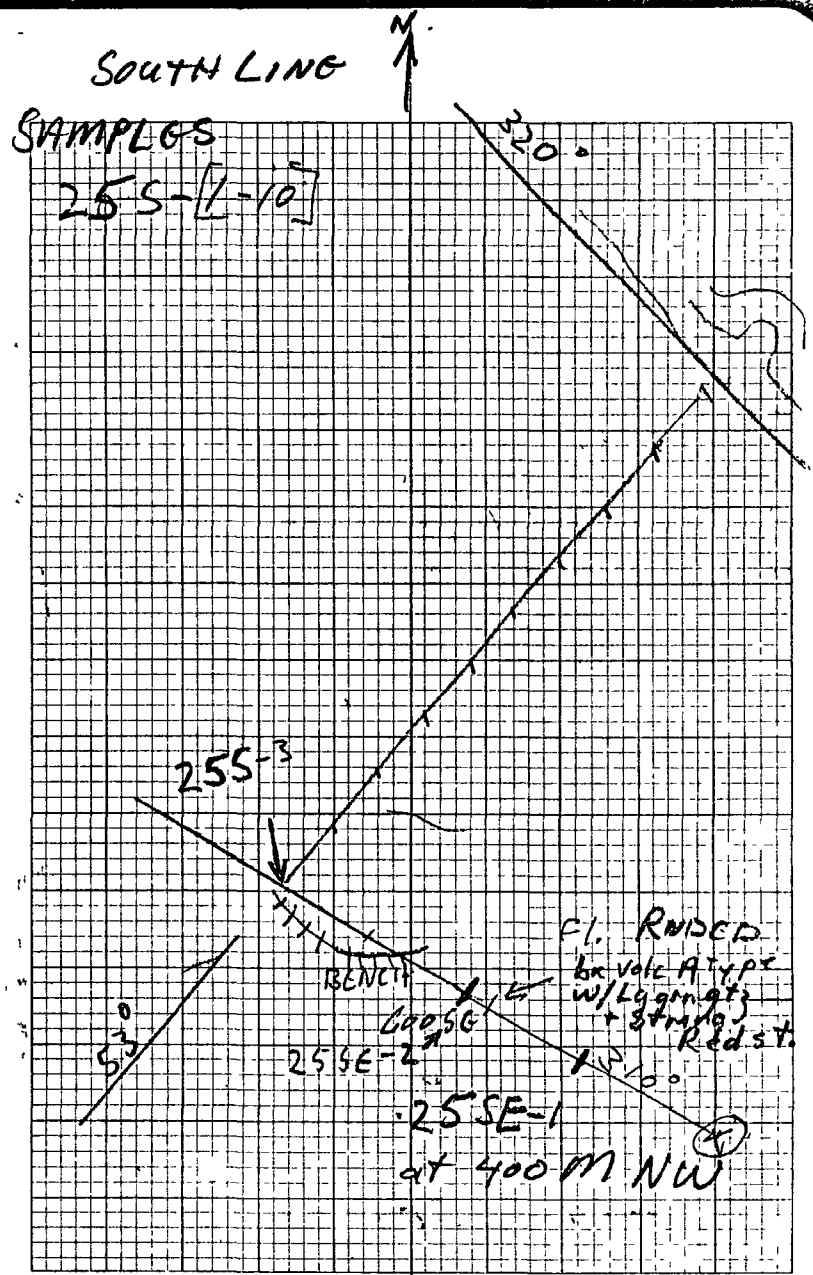
25SE-1 Hilly w/ pockets
 - Sample - from pocket

Type Soil
 Text Clay / silt
 Depth 16"
 Hor No ash layer seen. Lt & bnuw/r.
 Color spots, below rdish hor?
 Rock coarse, rounded
 Frag.

25SE-1B CONTROL SAMPLE
 - Mostly Grom Lt Rd BN under
 a white layer in w/org. layer
 Depth 8-10"

Hor BF + BM / MeRcbn - Ø
 Rocks - lots Rounded - sub Round.

25SE-2 - Rolling w/ depressions
 6.25 NW - soil from depression
 { silt / sand @ 16"
 Lt bn-re above
 R + sub R frags + pea grav.
 suggesting water deposition



June 25

25 S-6 Sand/silt / sm pebbles

Depth - same

Lt Ø Bn Ye BM-BF

Syen R- ANG frags. + R volc?

HEIGHT OF TRAVERSE

2555 SAME as previous

Typ. - Ash layer? below org.
- thin reddish

50% R-SA coarse sand-pebb.
→ stones.

2554

200 NE/SL - Sandy silt amongst R. pebbles

3000' → pebbles 70%

@ 912 - 14-18"

- Same as before.

255-3

Coarse sand + R pebbles - cobbles

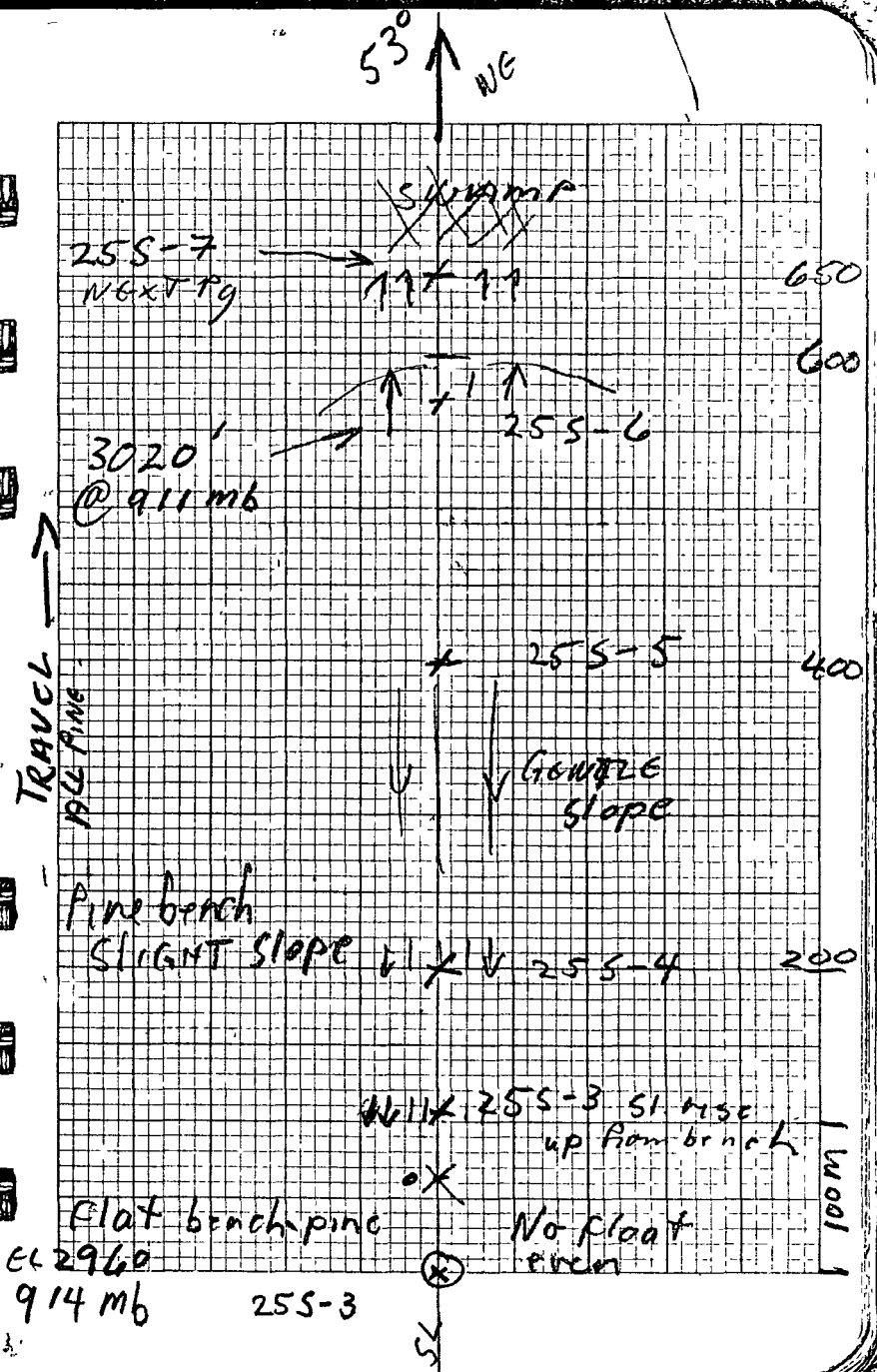
Poor sample - Glacial till - unknown depth

100 M-NW - Sandy silt

- 14"-18"

- Lt Ø Bn / BT-BM

- R- Sub ANG pebbles in soil



South line

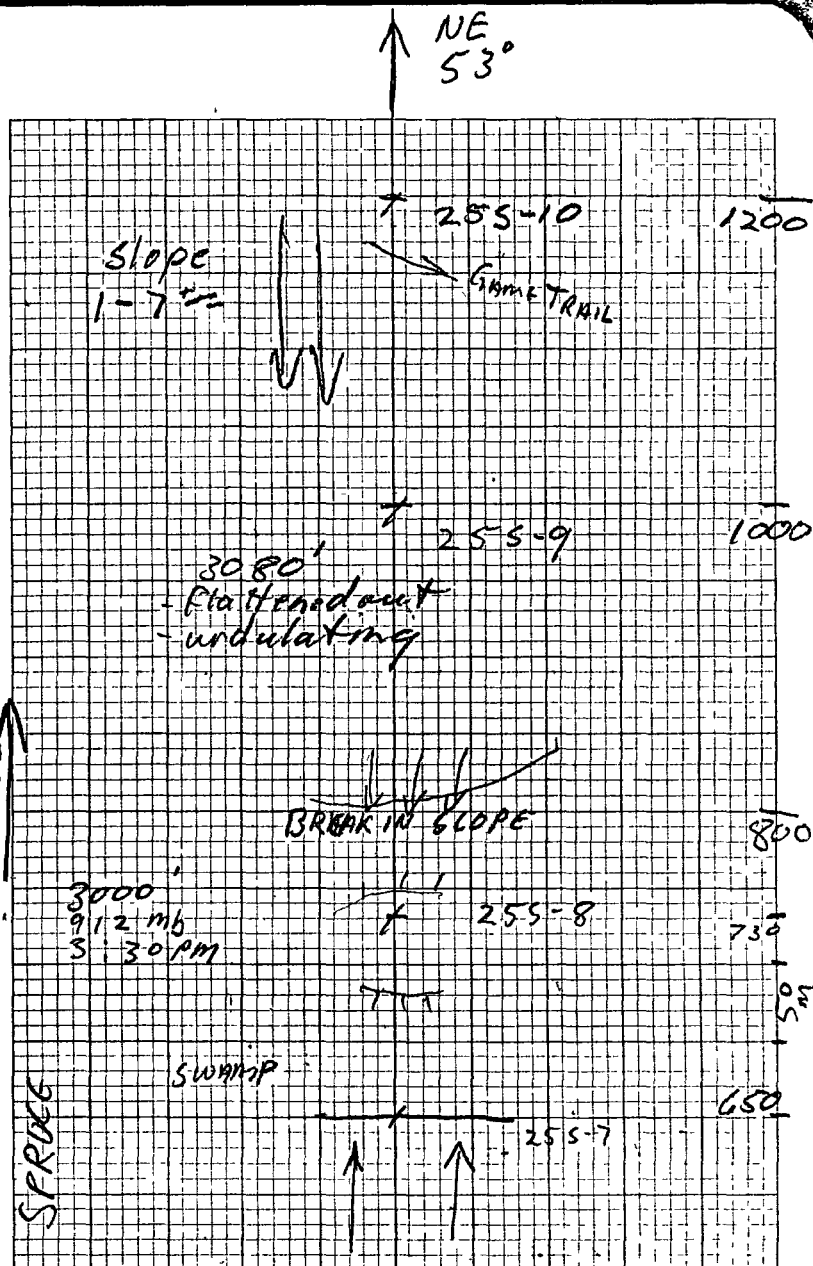
June 25

255-10 Sandy/silt Lt $\emptyset$ Br $\rightarrow$ Y
14-16" depth
10-20% coarse - pcbb - stone
R - Sub ANG.

255-9 Silt / Clay $\emptyset$ BN
14-16" depth
5-10% small pebb. Sub. ang.
Rate float - sylv. rounded

255-8 SAND / SILT M Re BN
14-16" Depth
R - cobbles $\rightarrow$ 50%+ R - SUB ANG. Grags
Slight Sandy/Grav Rise in Topog. - c. thin
way on line mossy - frozen.

255-7 - WET Lt Br + Y Re
650 NE - 16" Depth over rocks + frozen grnd.
- under organ. + ash?
- R Grags



June 25

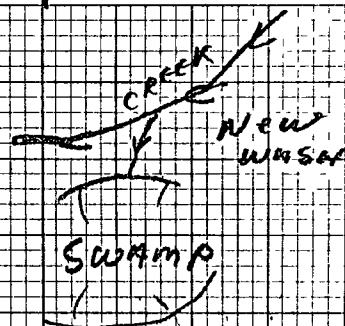
3360' Moss Mat sample taken
900mb on creek above new
SC25-13 washout in case needed.

Follow 195° back to camp
R-Outcrop? Enough syc
boulders to look like
outcrop
- crk trend N60E here
- 290 Dbl prices down stream
to camp.

290
1.8
2320
2900
5220

June 25

905 mb
3200'
9 PM



BACK AT CAMP 9:30 PM
2920'
914 mb

U.S. GEOLOGICAL SURVEY
WATER RESOURCES DIVISION
BOSTON, MASSACHUSETTS
1:50,000 SCALE
NO. 362

Summary LS ^{south} LINE

June 25

NW310° 3 soil samples to test for samp media and do a lateral line.

Fl. volc. 'A' type? w/ br. qtz, rusty rounded.

- Rare float anywhere.

NE53° Tried to maintain similar medium.

- Rejected some holes as
1- outer edge of beach too rocky + sandy soil

2- depression w/ gray clay

Soil - All (most) samps were same

- Horizon BM +/-

- same general texture w/ more or less coarse Rounded to Sub Ang. clasts

Geop. - 255-7 @ 650 NE

- overturned root

- wet brn soil.

Topog. Generally up → bench-dn (swamp)
x2 → undulating → steep at end.

Summary Geo.

June 25

First outcrop seen at 1400 NE

? - fine grn some qtz rich?

? - variations of syen

- Sampled vein of U Luggan qtz (folds) in syen?

- pegmatitic, rusty.

R - rock has black smears
→ disseminations

R - some of qtz (vein) had blobs of black (sulphide?)

Terrain glacial (moraine?)

!?. Which way did ice move
N → S?

MARS - CARIBOU LK
(MJ)

July 25

① Traverse from camp
340° (160) 5500 - 600 m

Sample

MJF-1 Orange → red stained
- subangular - float
- lg. feldsp. gran c/n
- drk min stain and
minor masses on selv
ages

ALL INFORMATION CONTAINED
HEREIN IS UNCLASSIFIED

DATE 11-11-88 BY
JL DALLIN CORP
TUCUM, WA 98271

No 362

340°

Inc Bench

(Bumpy) rougher sparse cover

MJF-1 Δ

200

④ JUNE 26

El 2820'
918 - unchanged

Weather - same - cool at nite
- cloudless

Trav. - upstream N side most
float Syen some volc

? + (Graywacke?)

outcrop - Syen - Rusty

IA? - Magn. volc w/ blk stages

SC2601 Sample of flood material
- collected from traps i.e.
moss facing upstream
- collected under water
1" - 6"

- stream has sharp bank
about 3' deep 3-4' wide

Same as sample at camp.

- flow same as at camp

SC2602 - Sandy sediment

(silty) from bottom

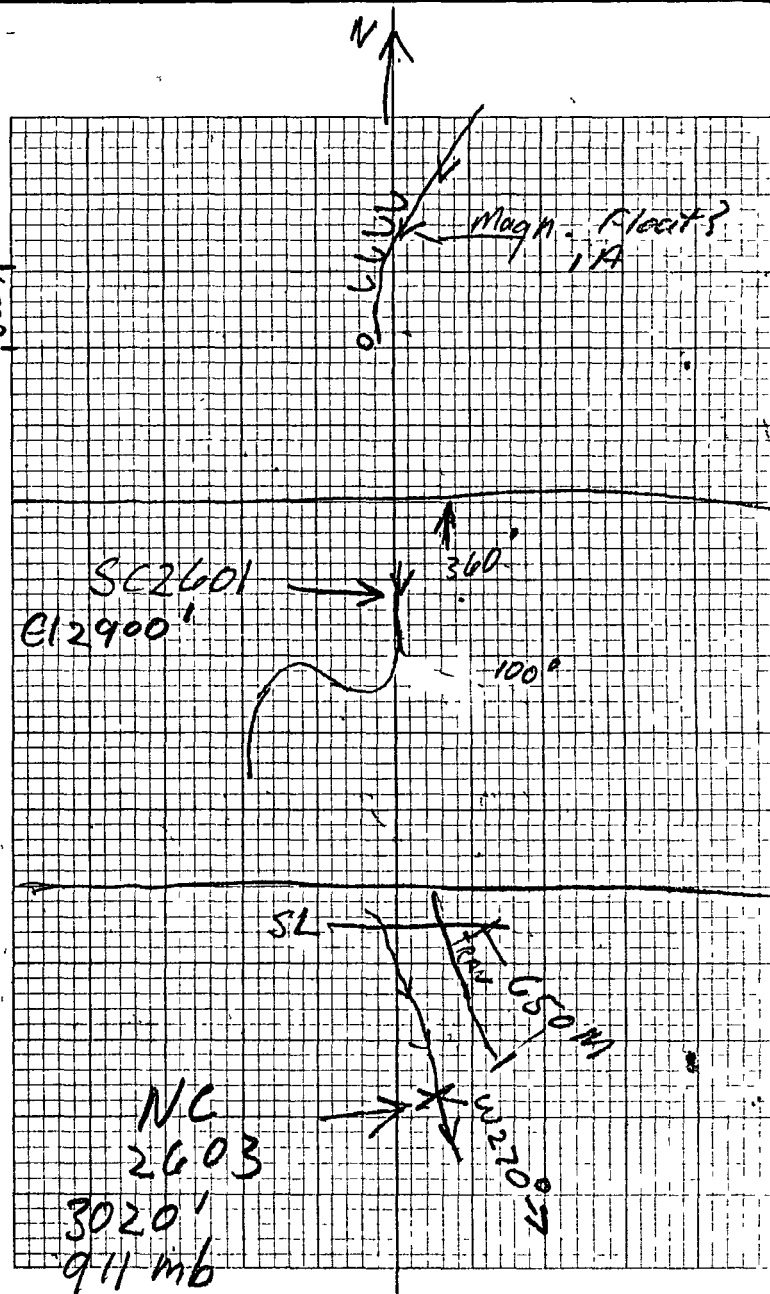
MC2603 of chlk - same place

NC2603

2 Samples - ONE mineral soil from
creek bottom

- ONE silty short moss + root
1-1 1/2" thick at trap in flow

- flow as above.



June 24

ON crk N.

Trav - 200 M - W from 2603

Trav - 650 (or 800) NW

MC2604 - Difficulty finding same sampling medium
- Got some (silty) moss at trav end.

- Back 175-200 M upstream got same silt from under litter on crk bottom about arms length deep

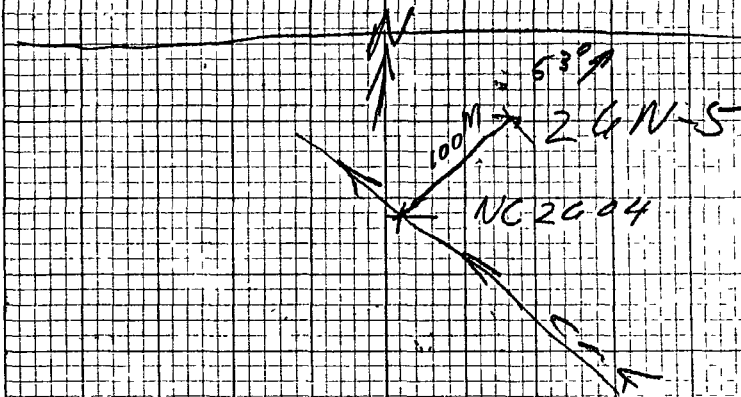
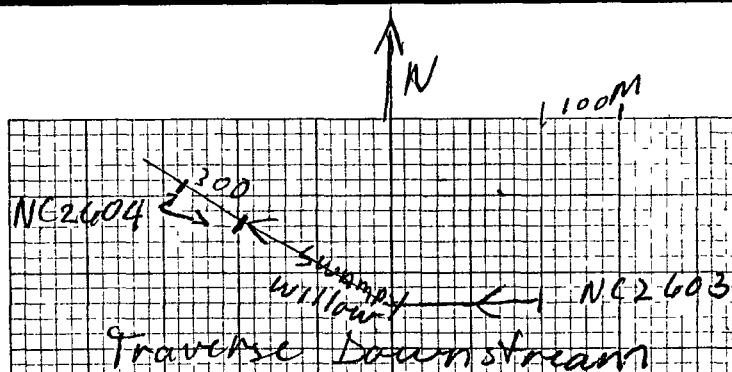
- greyish + organic silt

26N-5 - sand/silt Lt Ø Br

- 14-16

- 50% + Sub Ang pebb. - stones.

- Sl Sloping bench above creek



June 26

26N-9 Sand/silt Lt Ø Br
12" deep - Rocky
60% R-Sub ANG frags
Volc + Syen - cobbles
in bottom

26N-8 silt/sand Lt Ø Br
- fines - frozen below
coarse sand
12-14" deep - minor coarse
frags.

26N-7 BACK 50 m
Too coarse (water washed?)
- SAND/silt Lt Ø Br.
- 12-14" deep
- Rocky 60-70% R-Sub ANG
stones Dk. Gr Volc

26N-6 Soil Lt Ø BR BM
SW 200 m sandy/silt
Gran Rocky - 60-70%
csh 12"-14" deep
R-Sub ANG pebbles
→ cobbles

↑ 233 SW

DOWNHILL

300'

outcrop

800 SW

26N-9

600 SW

26N-8

450

Swampy

26N-7

400 SW

Gentle

26N-6

200 SW

Pan Green
Volc R

Syen
Pl

June 26

800 SW Outcrop.

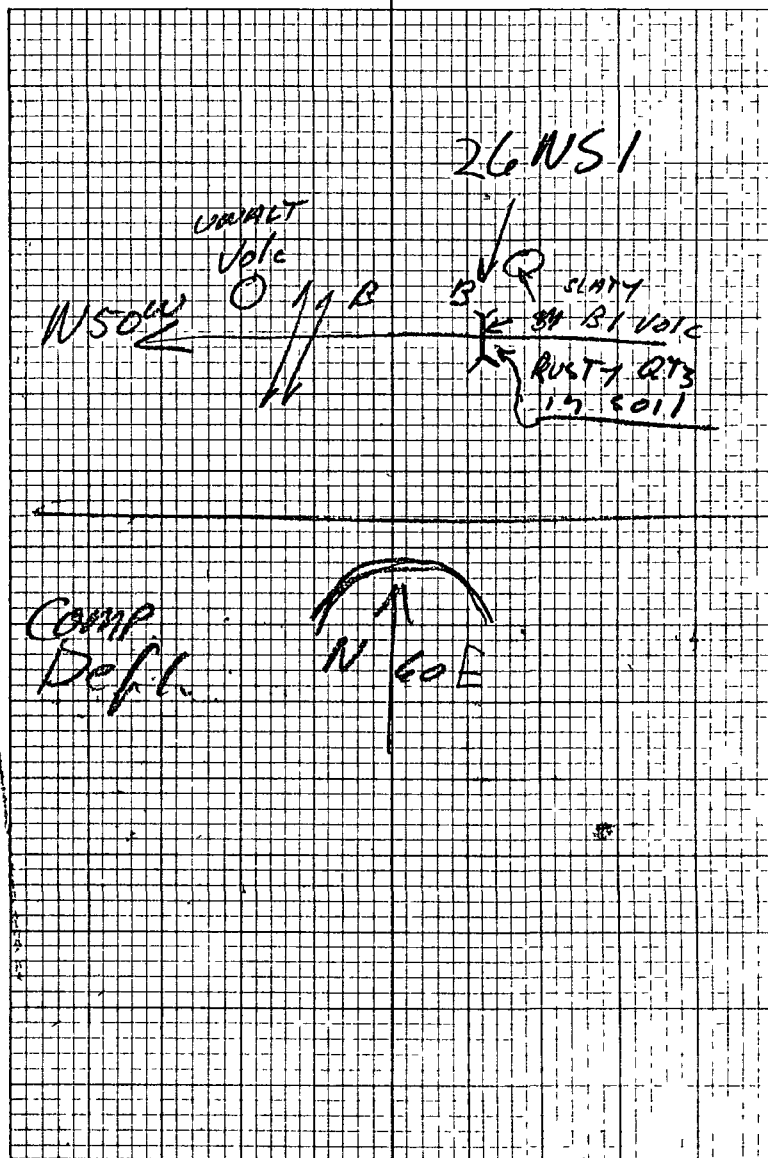
26 NR1 Sample noted siliceous rock

- Sheared N60E
- Rusty shear exp across 8'
- form of outcrop ridges N50W

TRAV → CAMP 150'

26 NS1 Soil sample over bedrock - trench (pit) site

- Re Br soil 20" depth
- angular / rusty
- slaty black rock frags



June 26 Summary

①

- Traversed upstream for sed sample above Mag Hi area.
- Sample moss + bottom sediment
- Traversed to end of previous day + 450 M downstream
- try to sample drainage cutting NW diagonally across Mag Hi.
- Problem - drainages are boggy although water flowing
- most sediment is organic
- N line more rocky soils. Rounded

Outcrop - Rare - gullies have some exposures as at 800 SW (NL)

- Interesting outcrop at 800 SW
- spent quite a bit of time digging to try and define structure.

outcrop - Exposed qtz / carb rusty
800 SW qtz and siliceous bleached?
NL
Green Volc rock over it
- most outcrop along trend
NSW is bleached. / Rizzy

SAMPLING Summary June 26

①

ENVIRONMENT - Ridges - Benches
Bays + Streams
Rare outcrop.

- 3 seeds on N crk - similar medium
- 17 soils - glacial silt (1 unsimilar)
- 1 organic 255-7
- NL 1 weathered rock. 450 NE (SL)
- 24 1 " " Graph volc
- 3 (4) seeds on camp crk

5 Rock samples

- pegm qtz?
- 25 - Dimer green siliceous? rock at same place
- 24 - rusted volc.
- 26 - Magn black float? amongst syenocrp?
- shared siliceous / carb volc / rusty w/ qtz str.

Crk samples where possible to detect min. values from Mag Hi + contacts

- NEED More on N crk.
- Camp crk as background and see if values vary above Mag Hi area
- hence moss + bottom sampling
- General info of drainage
- Need Grayling crk as background + North test.

June 24

Summary

(2)

outcrop - Fissile + qtz stringers frind.
800 SW N 60 E ? or thereabouts.
NL hard to tell.

- very rusty
- Pepper rock and graphitic
v fine grained black volc
outcrops to the SE

- Evidence of outcrop activity
as far up as 2401 site

- General trends;
- Inferred syn contact N-S
to NNW

NL - shearing N 60 W some
similar carb/volc shearing
1 mile South?

S - general trend of foliation
N-S

Mag - 3 rocks magnetic.

- 2 in NE trending gully
- fol N trending?

? - NW trend stringers?

- Flt on outcrop SE of area
(Sample 1A)

June 26

Sampling Summary

(2)

- Soil sampling may show
general drift trends
- ckr sampling may show
areas of anomalous value
Need more from North

Rock samples may show
values in immediate areas.

2 soils over rock may
show immediate area
values

1 organic? S2402 may show
value in gully or possible
medium for brown sampling
of gullies

PROBLEMS

- Gullies Frozen - Moss
- Mosquitos

10
June 27

mb 919
Set to 2820

-80' msc in 2-3 hrs HOT

-Sunny - Cloudless
cool nite

NAV. Navigations seem to
have been good

-Compass + reckoning got
me to camp within 100m
800 SW AREA → camp

CAMP - Angular cobbles + in
outcrop bank at camp.

TRAV 318° NE 1600M 110 paces dbt.
x 8 = 880 dbt paces

318°

-900 = Flat to slight
slope
-Open pine

← ←
O SMALL clearing 900

← SLIGHT 800

FLAT 700

BENCH 600

570 paces
HIT SL
75 NE (100)

FLAT

Bench

Bench

ROUGH

SWAMPY

TRAV

100 dbt paces

June 27 TRAVERSE 236° SW

Soil samples 27W-1-10

27W-4 Retake for W-3

Lt BR Yc sandy / silt

40-60% R - SubAng frags.

10-12" Depth.

BM - BF sl.

27W-3 Sandy / some silt. Lt BR.

Much R STONE + SubAng pebbles

80% rock.

10"-12"

27W-2 Sandy / some silt - Rocky / Sandy

900 NW 10" and below

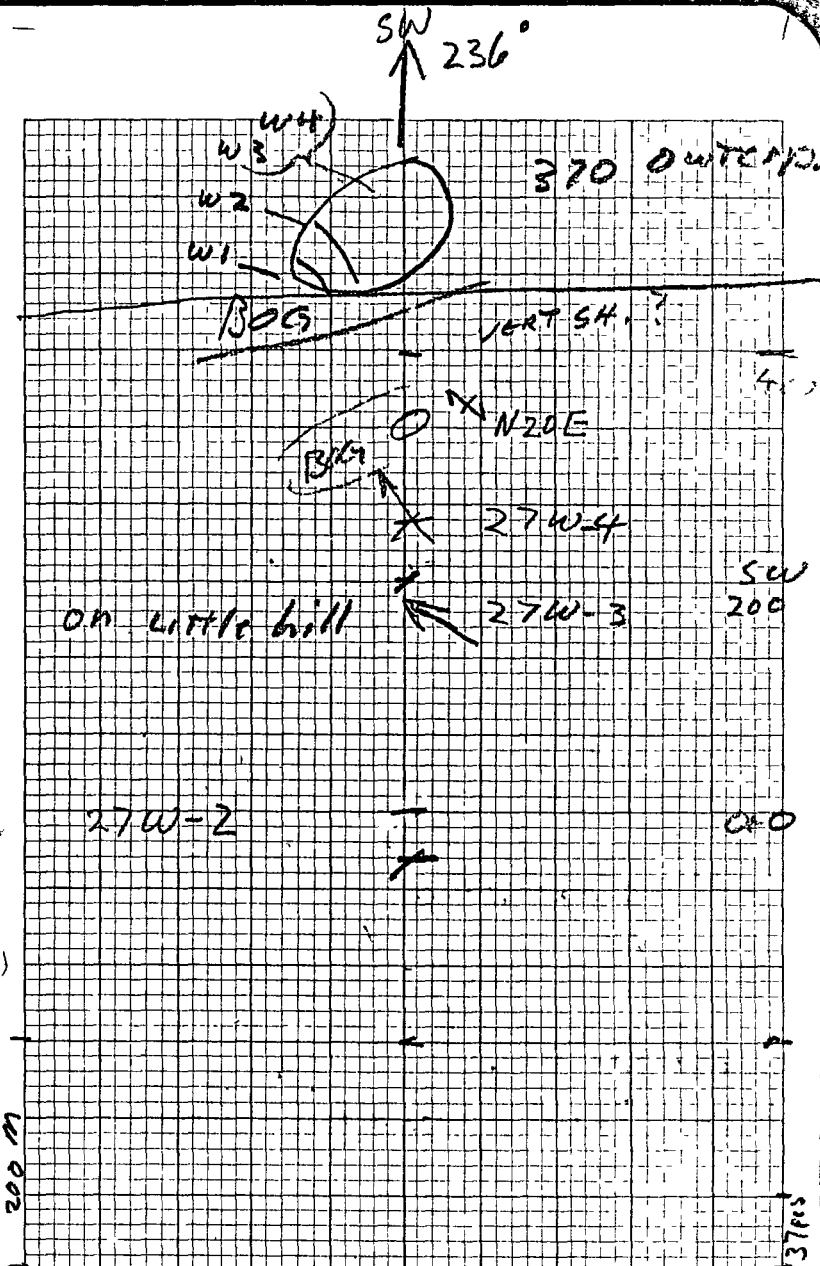
60 NE Lt BR Yc BM - BF

8-10" depth

70%+ SUB ANG - R frags, Peb. - silt

900 NW 700 Sandy - R rock to 12"

0 SW Then washed sand and SubAng Gravel



June 27

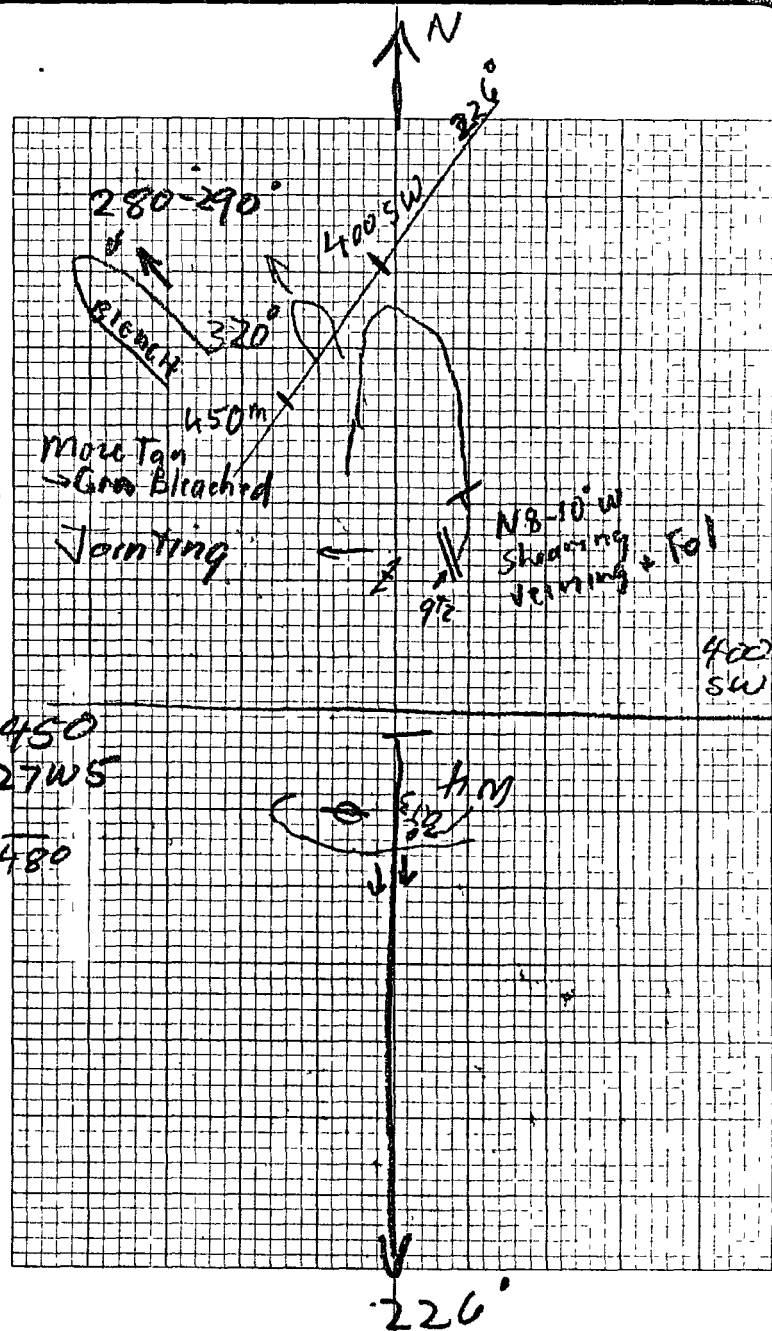
This outcrop cooked
up lots of time.
- couldn't get a handle
on any structure or
width - would take
some digging

450 Tried for a soil sample
- very little soil over
R rock - greenish platy
vols. platy → N50W
- fracture perpendicular

27WS Lt BR
clay/silt
10 + 12" in slight
depression
no rock frags

R. Most outcrop yet

480 - Outcrop of sheared volc
w/ qtz - Black / gray
green strippy rock beside



June 27

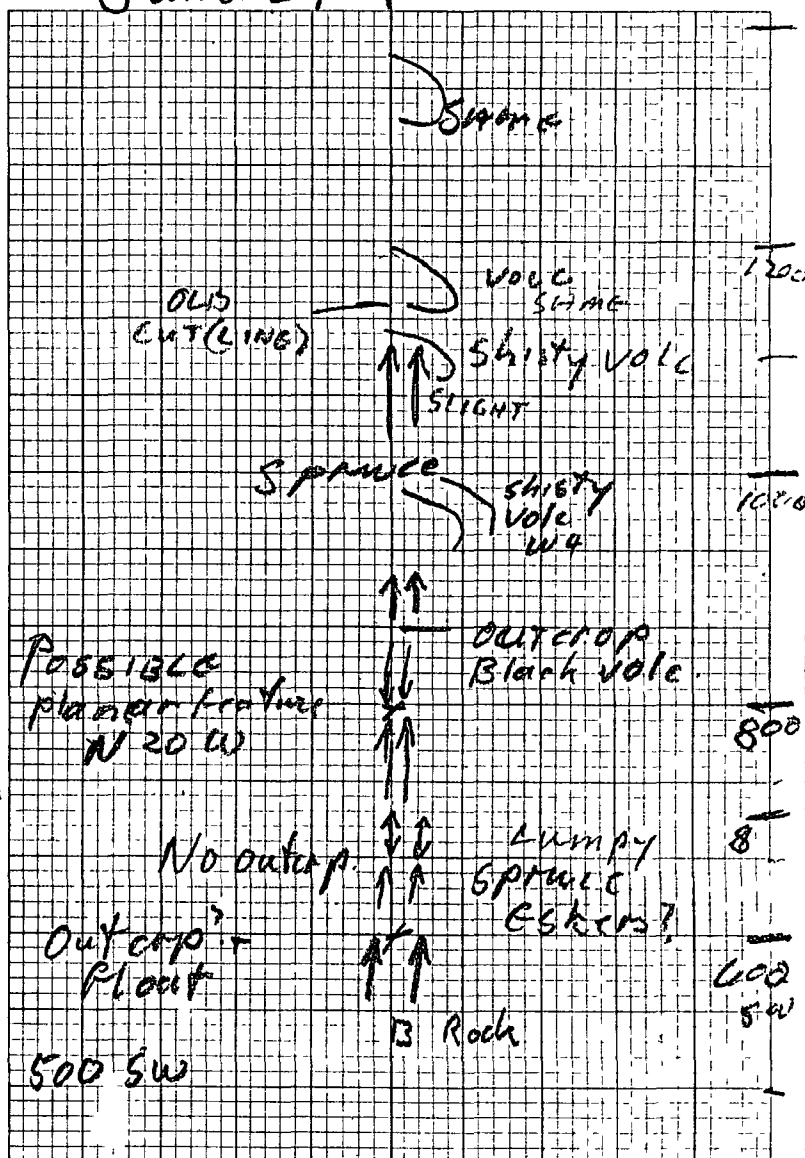
27W-8 Sand/silt/clay
BR-ye
50% + R-Sub Ang frags.
R-Sub ang cobbles
8-10" depth
rocks (cobbles) at bottom

27W-7 Wet Gray-Lt BR
12-14" Sub Ang - R. Frags
30-40%

27W6 Clay/silt Re BR - BF
- 8-10" over - shisty wet
probable outcrop
Terrain lumpy

500 SW Bleached green w/porph.
white R's

June 27 ↑ 236°



JUNE 27

↑ 236°

+ 1k at least to truck

Boat

1600

lots
of outcrop

↗

qtz rich
rusty

1500

QTZ RICH Rusty
SAME VOLE

↘

1400

14-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100

11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100

No 362

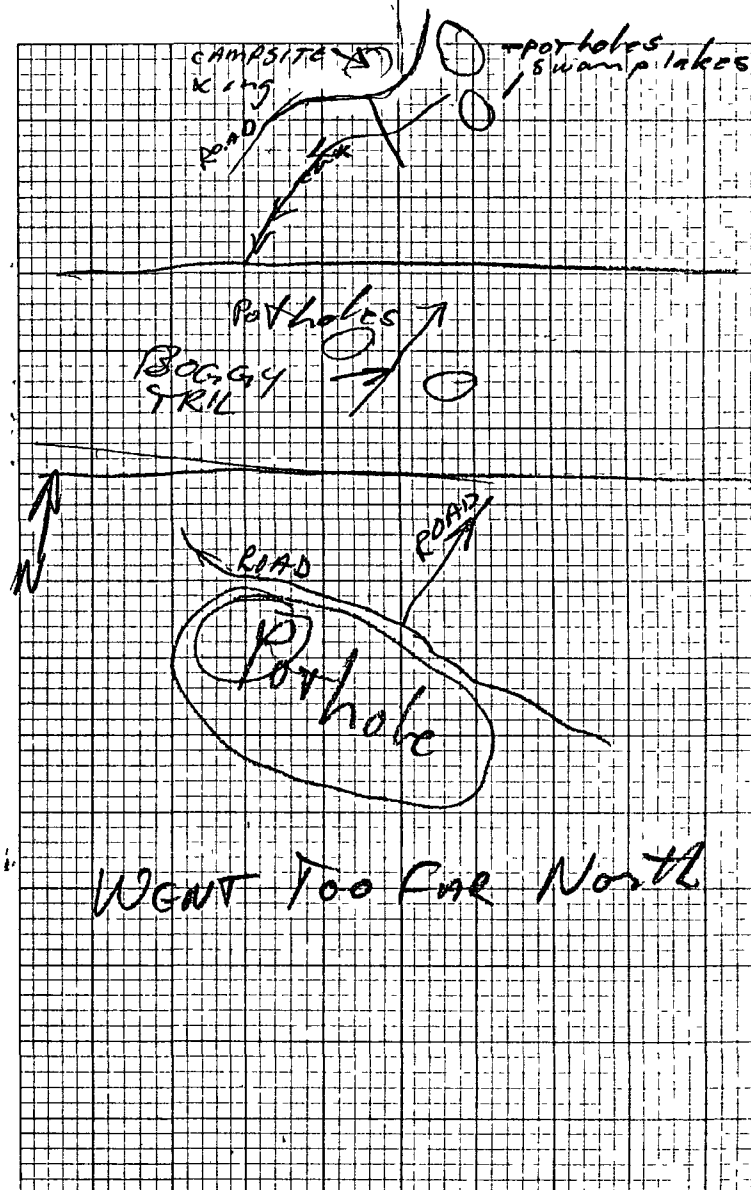
June 28 TRAVERSE
Rd

11

12.45 King

1: PM - Bog hole,
- Port holes

1:03



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No 362

SGD SAMPLE

June 28

#1 TOP

GRAYLING Bog

Creek same as south
'Camp Creek'

- 1 sample of blood moss
taken same as camp
creek samples.
- 2 Sed bottom mid to
inside channel

GCS-1

GCS-2

GCM-1

GCM-2

15

JUNE 29

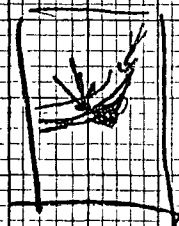
TRAVEL

GL 2820

↑ N

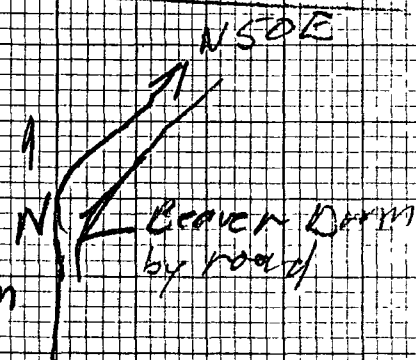
moderate
flow

- Moss Bath
sides
- Stuffed bank

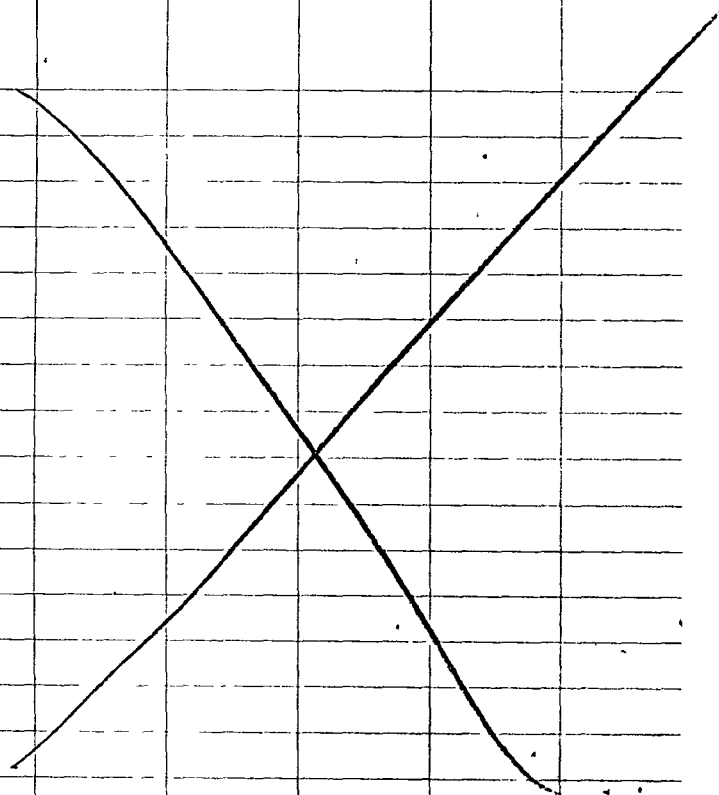


200 M up
road from
Dam

75 M SW
to creek from
nd



THE DARLING CORP
1100 N. 1st St.
MILWAUKEE, WI 53211



W. L. DARLING CORP.
1400 N. W. 10th St. Miami, Fla.

W. L. DARLING CORP.
1400 N. W. 10th St. Miami, Fla.

No 362

Marsh S -
Soil

DATE | LINE | #

Rock R
Crack C
Moss MC
Crack

Marsh N DATE | # |

Rock R
Crack C
Crack Moss M
Soil S

(13) Mans - CARIBOU July 25
MJ

JULY 25 Traverse 160° from
camp 5 - 600 m.

Fl. - Orange - Red stained syen.

SAMPLE - Subang float.

MJE-1 - Lg cream cl. feldsp.

△ { clark min stain + minor
masses on selvages.
- dk min shiny - streak
v minor black - mostly
smears light → whitish
- soft

Float in drainage (gully)

- Boulders (occp?) - red + orange
st. syen.

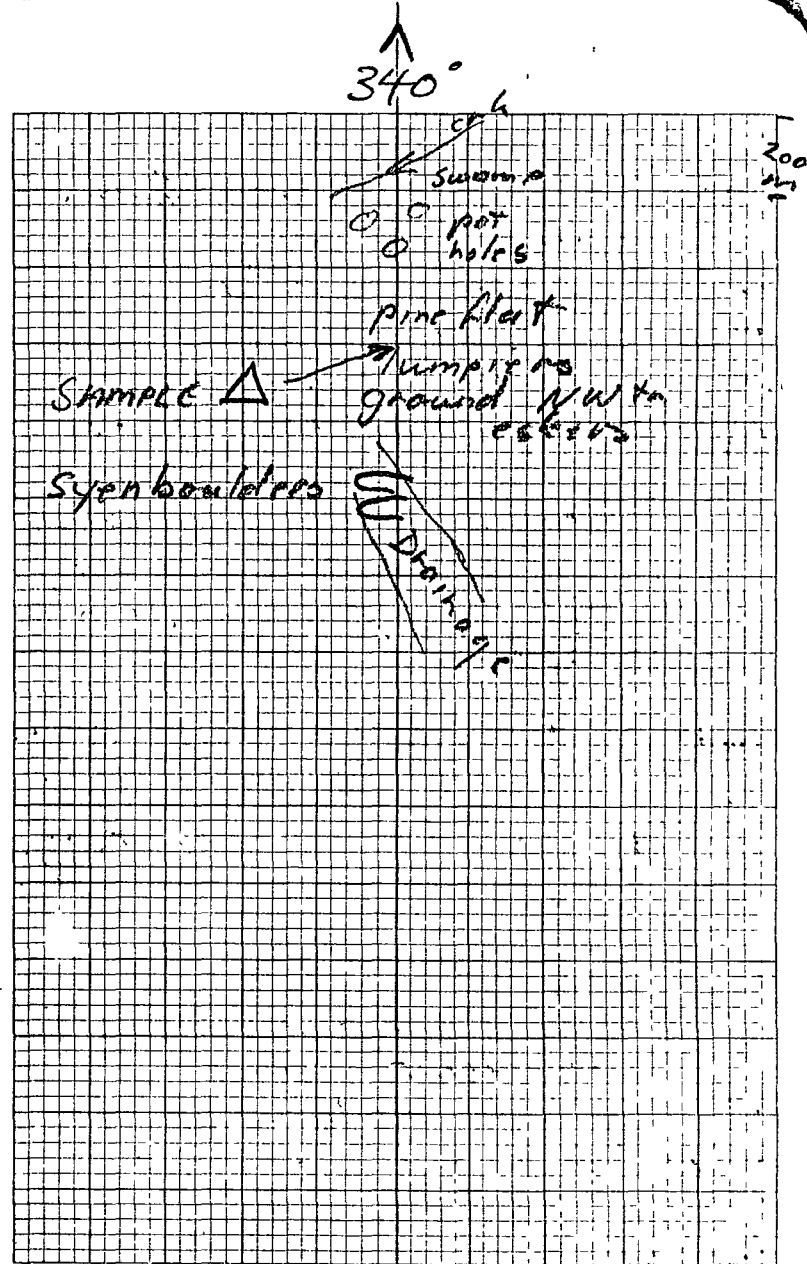
dk - scaly text. - soft - non mag.
Lt green to dk green to black
- compressed looking.

dk - greenish sandstone?

Lt green - fine grain, Lamellar.
H = 4-5.5

Diorite

Leuco Qtz/feldsp. - 10% Green
inclusions



14 MARS

July 26 - Traverse S (5-10° E)
1100 - 1200 M → NC

→ $W(5.10s)$ 3-400m

→ 2000 m, S - WL 400 area.

6505 Fl. 2-1 Dark gray - shistose
magn. mica? - whitish - Lt. green.
Fl.

650 S Fl numerous boulders

F - rusty s.s. w/ mica
F - dark gray green plat x's
F - gray shale
100%

700 to 800' - INTERMITTENT Boulder
FLOAT. Mostly Syen
as MJF-1

→ 1100 Parallel MTC-2 crk - it sounds like it runs off SW.

NJC-3 Sampled - Mostly moss sedim.
in flow bed.
- Pebbles + rocks form most of
bed - some sed / sand from
rocks

360°
X CAMP

Pine

- Sy float as Δ
94/Feldsp? 25th
green incl float

MJC-2

Bottom Sed/sand

-ork 3'w 3'd

- Good Flow
- Silt - Rock bottom

MJC-3

small crk 1'w
1" D

Mars. - M.J.

July 26.

MJC-4 2 samples

① - Moss on rocks in flow
4' W x 1' D

② - Bottom Sediment + moss

Fairly fast flow

100 m below beaver dam

FI 2-2

1000 S-SW of MJC-4

- banded Lt G + drk Green

- no preferred direction

some shistose

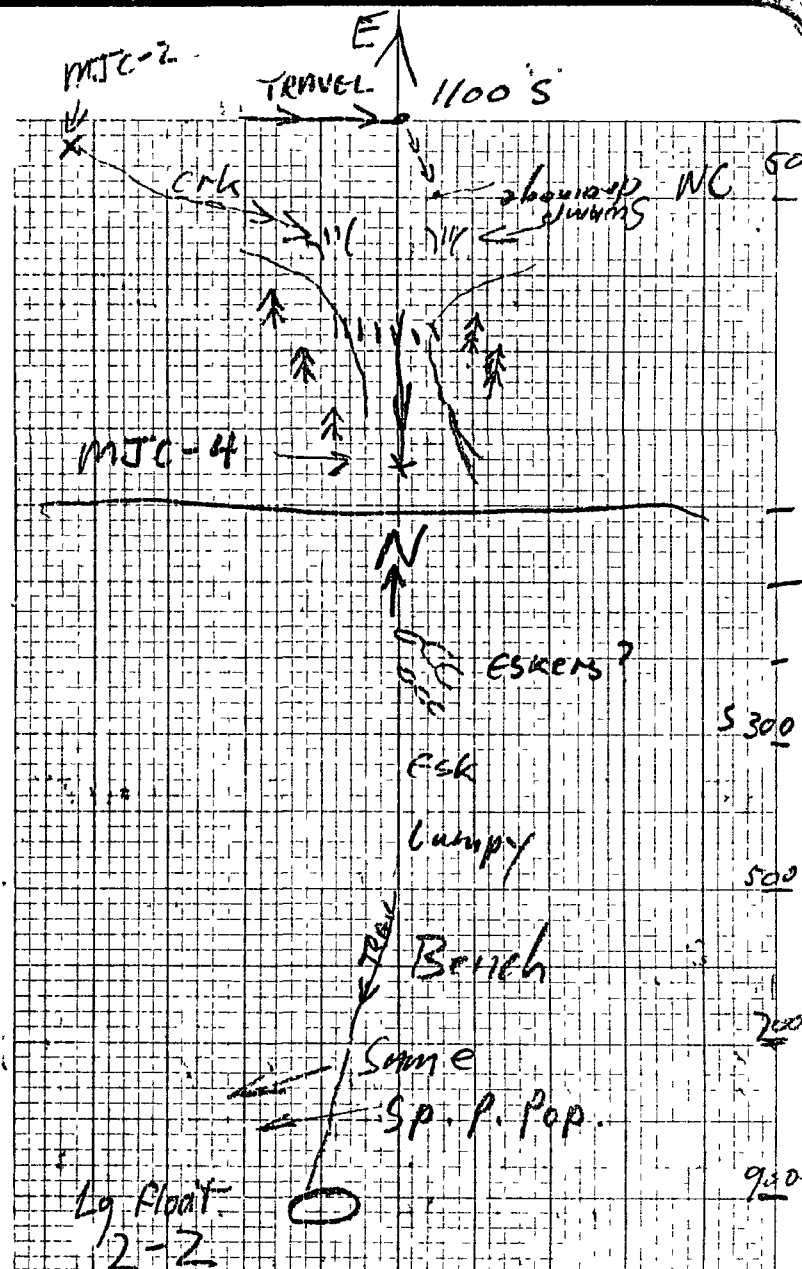
TRAV - SW from Lg Float.

Follow gully SSE

SAMPLE

MJC-5 - Mostly organic
silt dredged from 3'
depth - dk brown.

Loc - Approx 300 m DNSTRM
WNW of open point
approx 500 m L x 100 m W



MARS - MJ July 26

TRAV - UP gully SSE
1-200 m

outcrop - felsite w/ rust
spots.

- Seems to trend E

outcrop

GP Gray gtz w/ feldsp
porph.

GG Gray Green (Lite)
w/ flat lt green x's

VM shisty - fine gran
black w/ gtz
- drk gray

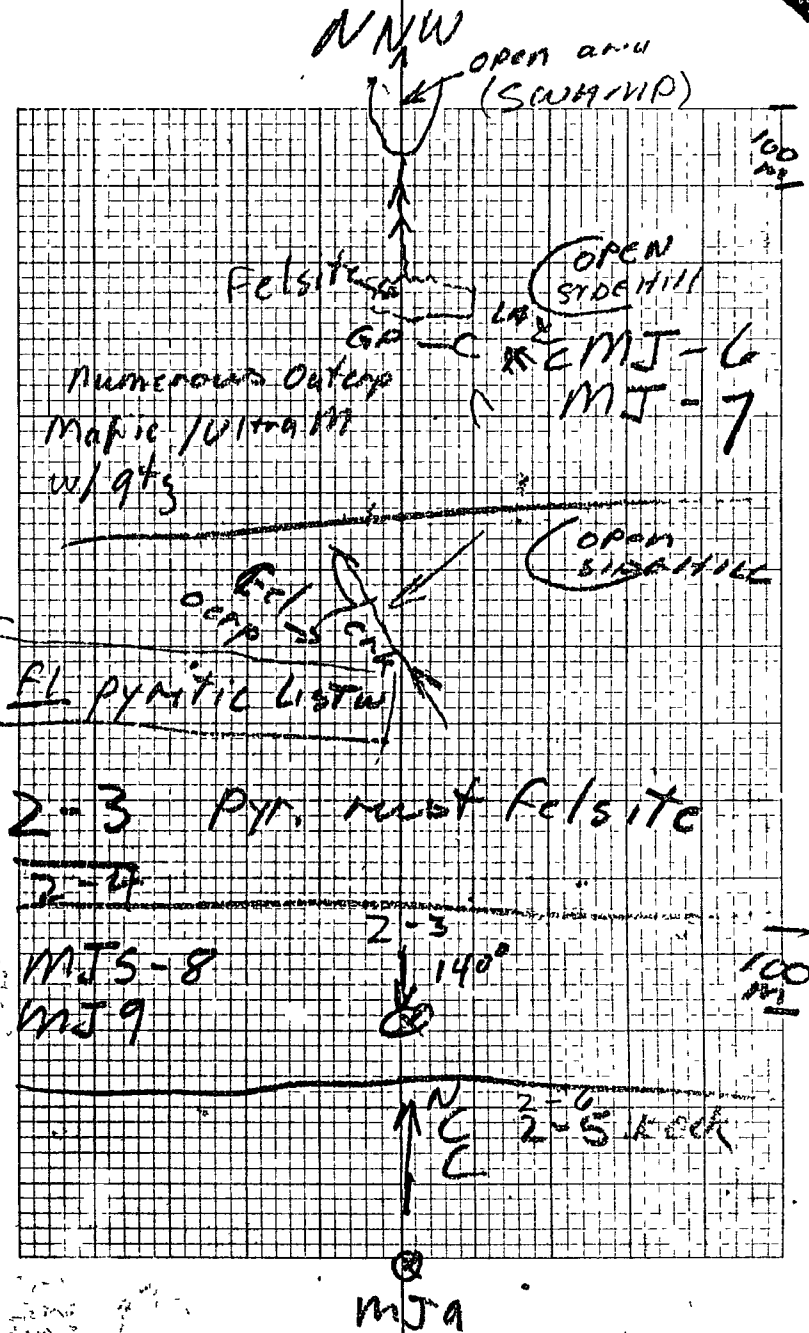
LA - LAMPROPHYRE?

MJ-6 Pyritic Listwanite
mostly W side of g' pit

MJ-7 Pyritic, oxidized
material, Minor (Listw?)

MJS-8 Composite soil
mostly v rusty 1' d epth
N 60 E + below MJ-9

MJ-9 Dug E-W 5' N-S 10'
composite of gtz/carb
minor marip. in gray-sltan
stringers .1-1' wide siliceous



MARS - MJ-10 →

(15)

July 27

TRAV 500M at 146°

→ S 5W 2.5k to 'A' ZONE

- No cdk encountered

800 S. - N side gully

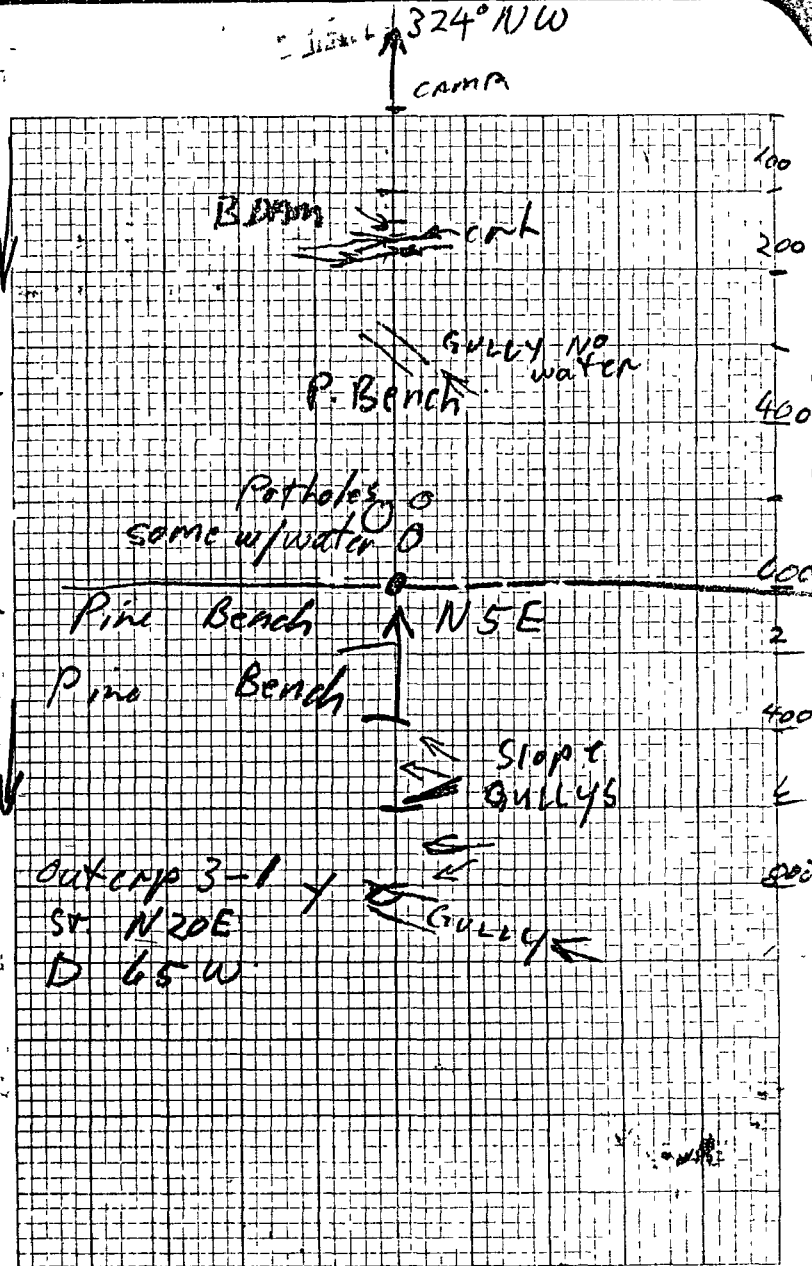
3-1 - Lt grn - gray felsite

- feldsp. physis

- ~~siliceous~~ felsic m/qtz

outcrop 30M intermit.
along gully E-W

- fizzy in joints



MJ 10 / 11 MJS-12

July 27

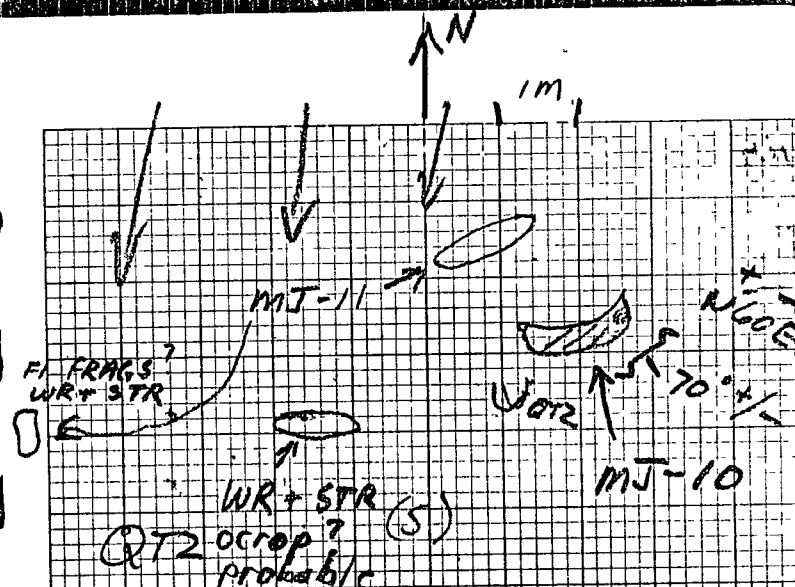
MJ-10 E-W across 3'

- qtz - rusty massive → sheared
- crumbly w/ dark pieces East
- hole w/ rounded (shale?) w

MJ-11 Wall rock + stringers from West side

MJS-12 Composite soil - 4 pits sample.

- red residual w/ sharp ang. frags.



Probable strike N50-60E
 More qtz float as samples on hill.
 Possibly more than 1 vein

MARS - MS

July 27

ARG +

3-4 + 3-7 Silicid Arg hornfels?

3-5 - ^{minor IP} Biotite in black volc. bx

3-6 - Prk gray - black - volc?
ring grn

2650 S

2670 S

3-7 Black slate + (Hornfels?)

Outcrops found N/W

2730 S Lamprophyre rock

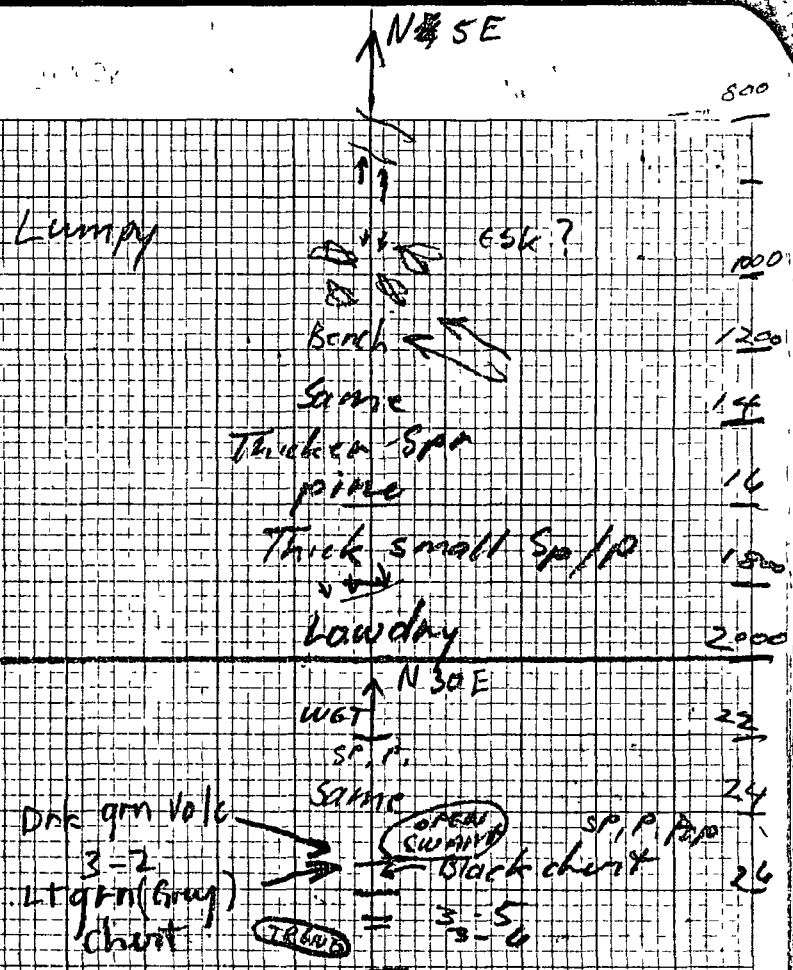
same pyritic

2760 S Lt grey green w/ ^{biotite} pyrite

23-8 →

2780 S shisty black volc

3-5



2800 AT Gully

MARS - MJ

July 27

MJ-13 - Silicified white $\rightarrow$ Lt gray
 $\rightarrow$ drk gray - listwanite
 + 1%⁺ - pyrite + sm. stringers

Assoc Rocks w/ sample
 gray volc w/ biotite
 + minor pyrite

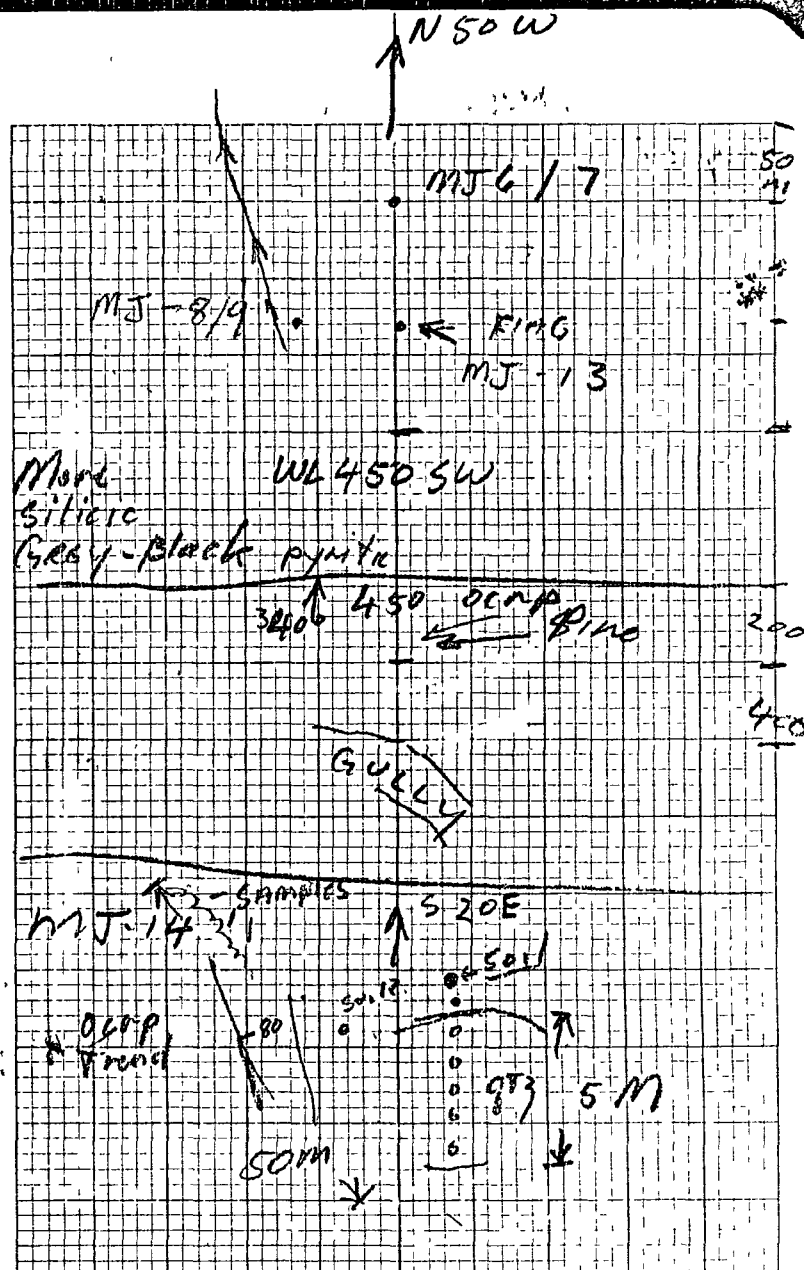
Str - Seemingly N 50 W
 Dip - NE steep on vent.

MJ-14 Site of 1000 PPB AU
 in soil

- Rusty qtz brn / gray / black
 - No R₁₃₃

- Shisty volc? East
 - shistosity flat to SW dip
 - qtz could be same
 banding in qtz where seen
 could be the same

MJ-15 Qtz + Rusty wall-rock



16 MARS - MJ
Summary. July 25-28

July 28

work - Work aimed at WL zone
Objective - Looking for Listwanite assoc
A - Au anom.

- Follow up Au in soil S of WL zone.

Objective - Stream (drainage sampling)
B - South of Grayling Crk to Hill in work done south.

Objective - Look around Maghi area
C - North.

Results Found three Listw. showings
+ pyrite. Most pyritic
A MJ-13 - Middle showing.

- 3 Listw. showings seem to form N50W trend same as gully to SW.

- MJ-9 SW may indicate another vein (parallel)?

- Volc rock w/ biotite seems to be associated w/ Listw veining more of this rock outcrops NE of sample sites

Summary.

Results - Dark volc shists +/- gtz
A trend NNW

- Au in soil site - big rusty dirty gtz showing
- hard to say which way it goes

Results - Most drainages boggy

B - Sampled good flow, sandy rocky bottom crk below maghi - 2 places.

- One below NC intersection
- one sample similar to lower NC sample NW end of WL gully below big clay swamp.

* - Looks like GC-2 site is misplaced - couldn't see a crk at GC-2 site as mapped.

MARS - MJT

Summary July 25-28

Results - Area is covered w/ heavy
C overburden. - Benches (Pine) and
eskers.

- Some magnetic dark gray-black
w/ feldsp - shisty → mashed w/
m/ black stringers - float
was found in and area
downslope of mag hi. Most
float (some outcrop) is syenite
as MJF-1.

Vein - A rusty qtz vein + stringers
in altered wallrock was found
'beside' a siliceous mostly
felsic 'dike'.
- They seem to cut across
the mag hi.

(17) → TRAVEL July 29th

Geology

MF - mag. float.
- mashed, shistose → bx
- Gray felsic, feldsp x's, qtz x's?
- black stringers, py - innes

Sy - Syenite

Gr - Lite green siliceous volcanic

M - Gray med-fine grain volcanic

Vbx - Drk gray volcanic bx? w/ biotite
and qtz.

CH - LIGHT → drk gray chert

ARG - Black argillite m hard

H - Hornfels

L - Gray fine grain w/ biotite
pyroxene, olivine

F - Lt gray → cream color felsite
14/5, 6 w/ rust spots

Gq - Gray qtz/carb - rusty selvages

Gp - Gray fine grain rhy? w/ feldsp
porph. and lt green small
lath x's.

Vm - Dark Gray - black meta volcanic
shistose

VU - Fine grain black ultra mafic

10 Travel

18

CARIBOU LK

TUES AUG 25 / 92 EL 2620'

19

WED AUG 26

TRAV SE → WK zone

Sy Fl. - carbonatized, rusty shudose joints purple soft
Flax mineral

N. END - FLOAT Syen + CI-1
MEADOW dk gray chert / surspic
qtz? in softer black
fine grain rock

C2-2 SE MEADOW - white → Lt gray
silicic rock.
- hizzly joints
- intruded black string's
- slicken sides

C2-1 to B Most exposure 6-8 rock
- N40W lineament may
SAMPLE apply

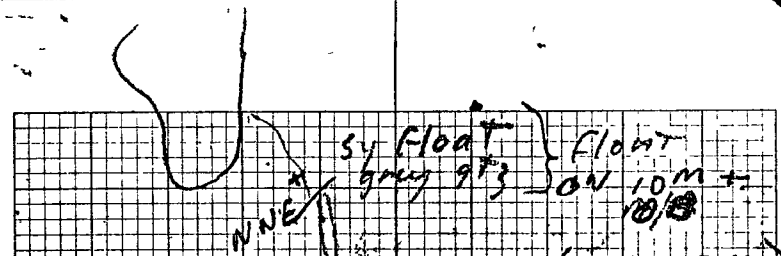
CA-1 Limonitic, minopy, Asp?
.5M N40E shear

Trav. SE → Eup hill

9 Rock as SL 14A

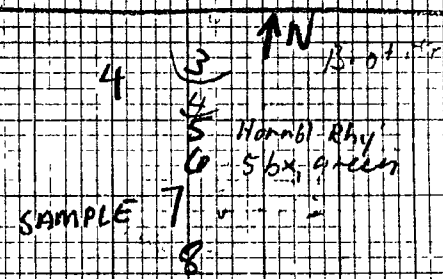
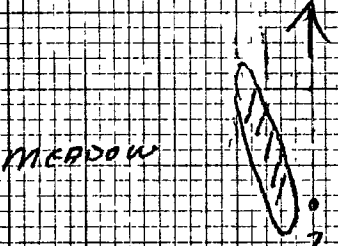
10 Shisty gray w/biotite

Lt gray (4) / phosphatic rock
grades into 10 Biotite Rock
unaltered. Dip of contact
possibly NE



- OLD CUT LINE - NNE (N40E+)
- Another cutting N40E - 100 m ±
CI-1 S. of previous

C-2



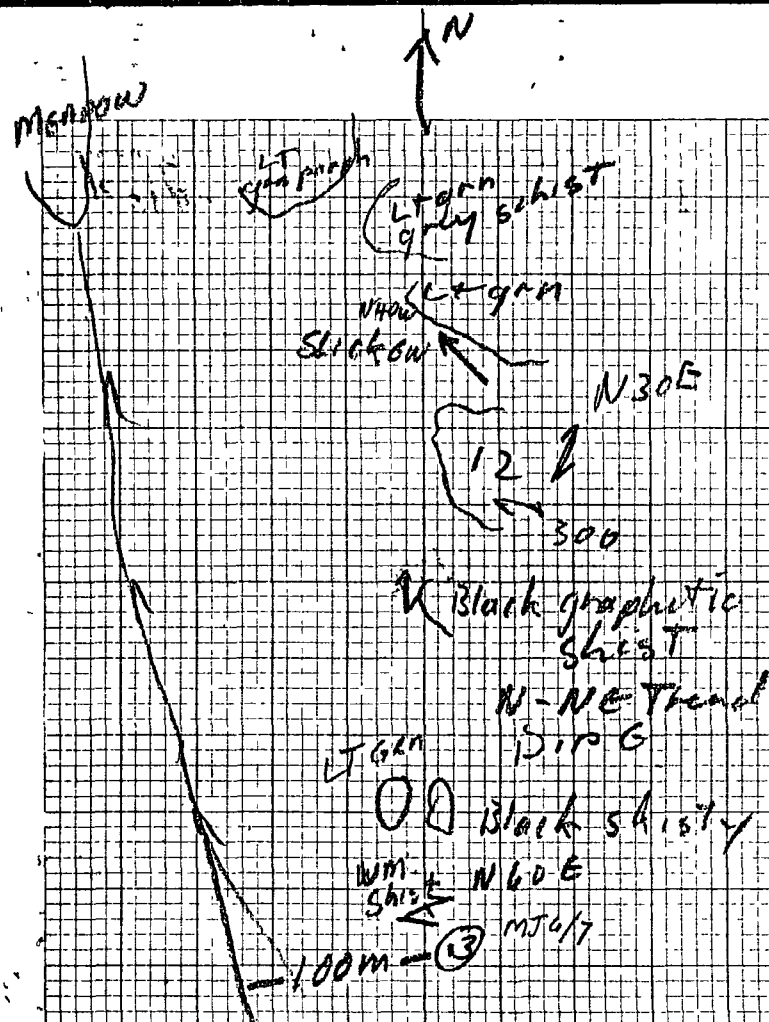
4/9
1/10

Aug 26

10 grades NE to N grey
11 fine grain fuzzy? volc? shisty - semicryst?

12 vm rock - Schisty
dk grey - black meta
volcanic - Locally
qtz rich

13 Rusty Qtz.
CA-4



NO 362

J. L. DARRING CORP
ALBUQUERQUE, N.M. 87121

NO 362

AUG 28

Traverse from END of N60E Trave
200 SE Outcrop 5-6 rock shearing at
N20E

250 SE Along SW edge of swamp

-7 Biotite rock Trach 225°

-8 Seems to outcrop S + W
of 7 + Trach

-9 Drk gray seems to

300 SE intrude lt rock

SWAMP OPENS UP

POSSIBLE CHOPPER LANDING

TRAV E 10 N ✓

OPEN WET BUT WALKABLE

SWAMP MEADOW EAST SIDE

Swamp

10 Fl. UP HILL EAST OF SWAMP

1-200m.

NC01 Drk Br dirt w/ lt brn silty SAND
soil 1' depth over rock in dry
sample crk bed. All moss covered

NC02 Similar 01 except there's
water

54 } MARSH
POND
100m

Marked
EAST
SIDE

NC-05

Willows

Mostly organic 15m
over rock
Red ooze evident

NC-04

Mostly organic
material over
rocks
Orange ooze in
crk side

NC-03

SAME as
Roofs - no rock
bottom - drk
muck

NC-02

NC2603

= NC-01

Marked
West
Side

50m

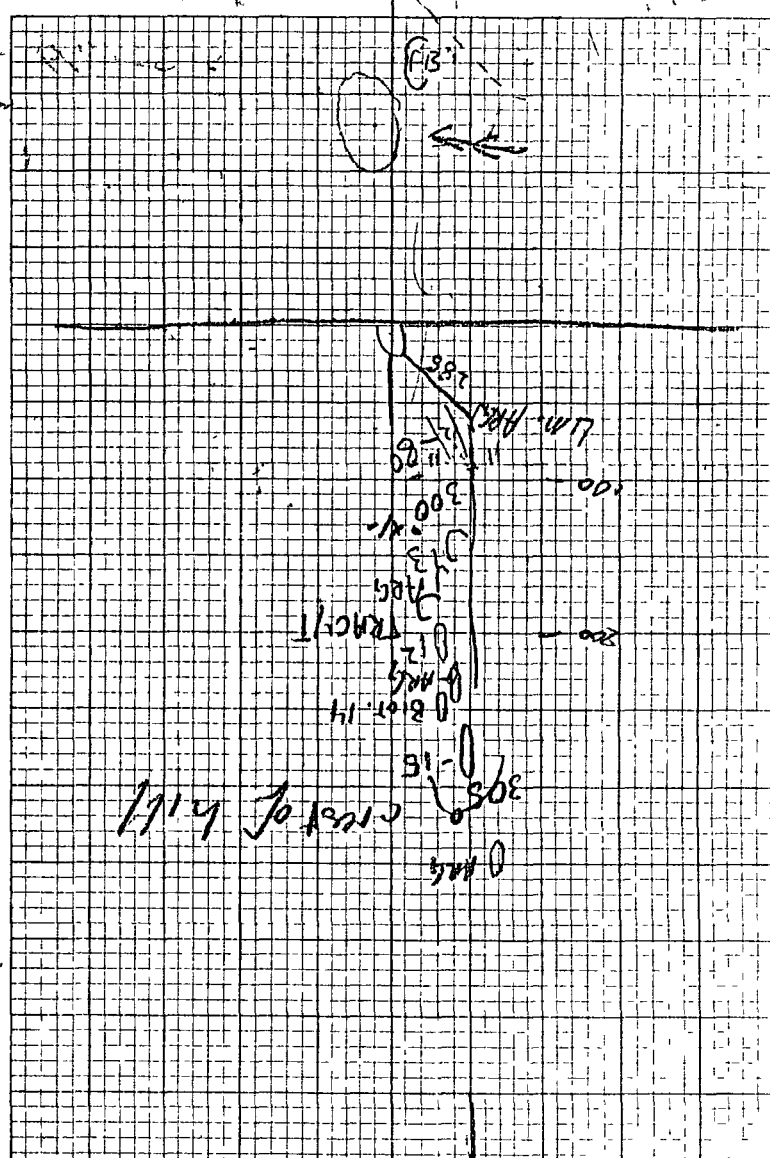
AUG 28 SL MREA

FB - FIRE BRICK rock as SL14A
minor Qtz in Flout

Qtz - Blob/Vein shearing N40E
Exposed N-S - 12m
- Could be Plat lying -> Dip
East Str. NE?

285° Trav - Meadow NE W. area
+ 100m - Argillite - limonitic

cut down



SL 14A

SL 14A

No 362

AUG 29 (22)

END OF
PAY PERIOD

Outcrop S 2ND POND

①/2/3 ① Schist black + lt green
finegrained

② Grey Calc. gen w/ black incl.
minor listw + carb.

③ Unaltered 2?

④ Also black schist and smoky
black at. as #1

ACCLING N 65-70 E

samples - Rusty, schistose gtz/carb.
① w/ black material + graphite
② N exp.

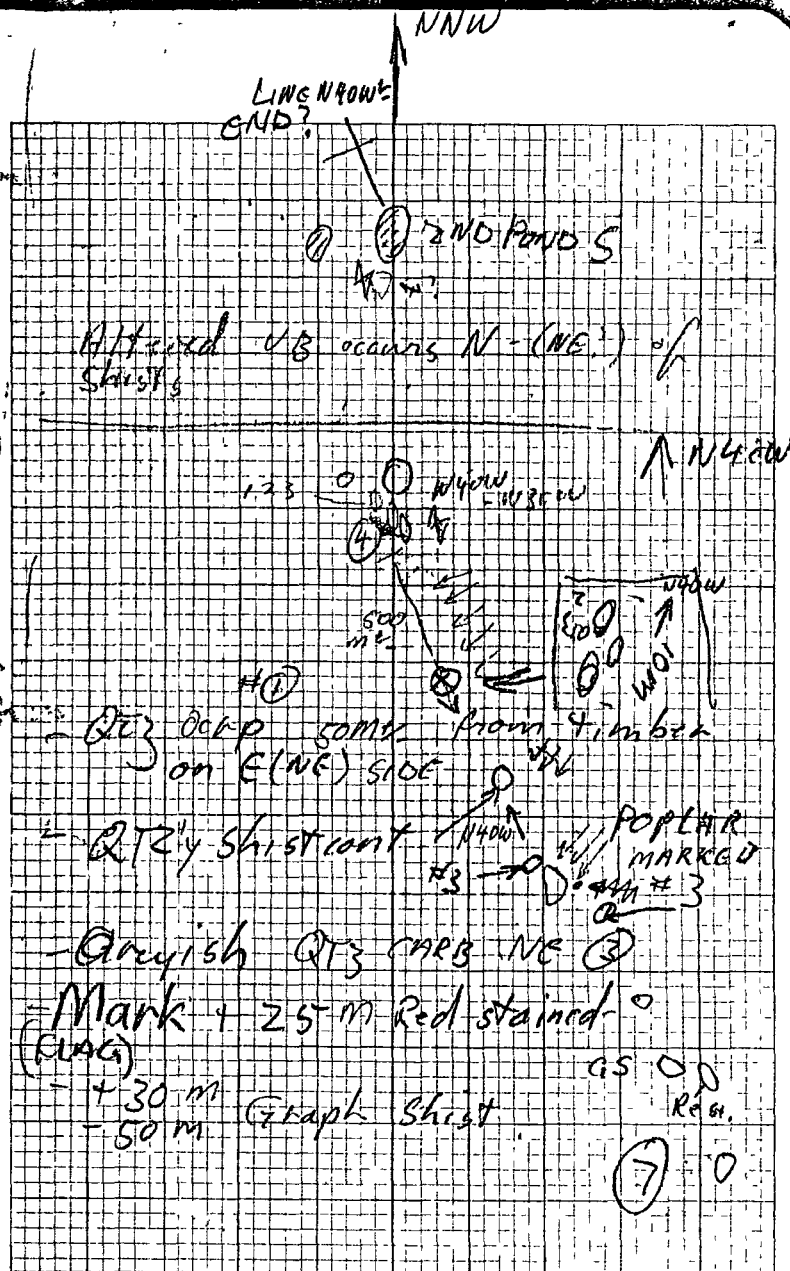
⑥ SW Qtz showing East side?

③ More schist + gtz from 100m+
on strike N40W

- These showings are all
about 2m exposed E-W

⑦ Serpentinite?

On strike w/ old cat line
at ⑦



Aug. 29

At WL Gully Shist-black/surfic
qtz East, Trachyte west.

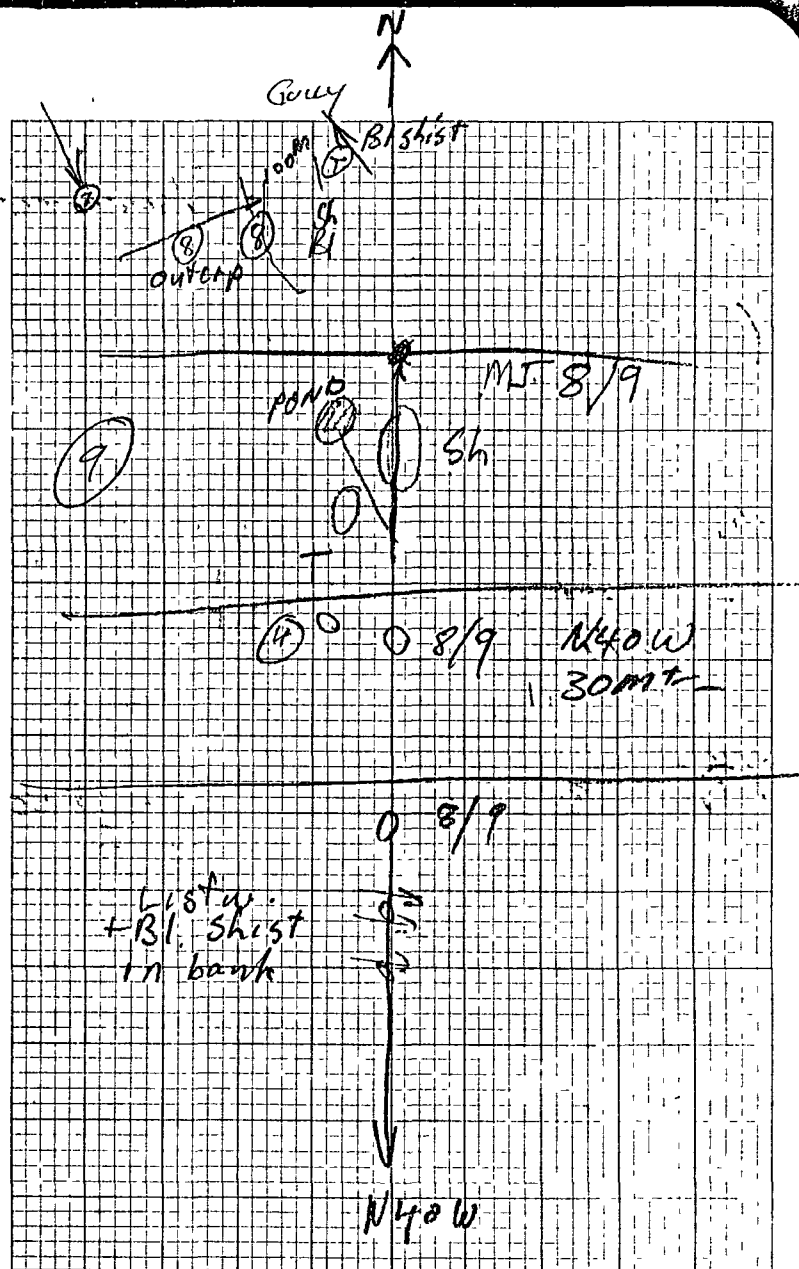
⑨ Trachyte at contact
w/ shist qtz rich smoky black
- black.

MT 8/9 Appears to be at contact
of ⑨ and VB

Contact T - SW
or VB NE @ N40-50W

SAMPLE

④ Listw in qtz + VB - shistose
Float along probable
T - BI sh + VB contact



AUG 29

SAMPLES

- ⑤ Listw + qtz across .25m
- ⑥ pynitic qtz beside Listw
.25m
- ⑦ Soil composite across
1 m. residual
- ⑧ Soil composite - residual
below rocks
SW of ⑦ 1 Macross
- ⑨ Soil below West Listw
cravasses mostly
orange ban

⑩ TRAVEL

No 362

Aug 30

(23)

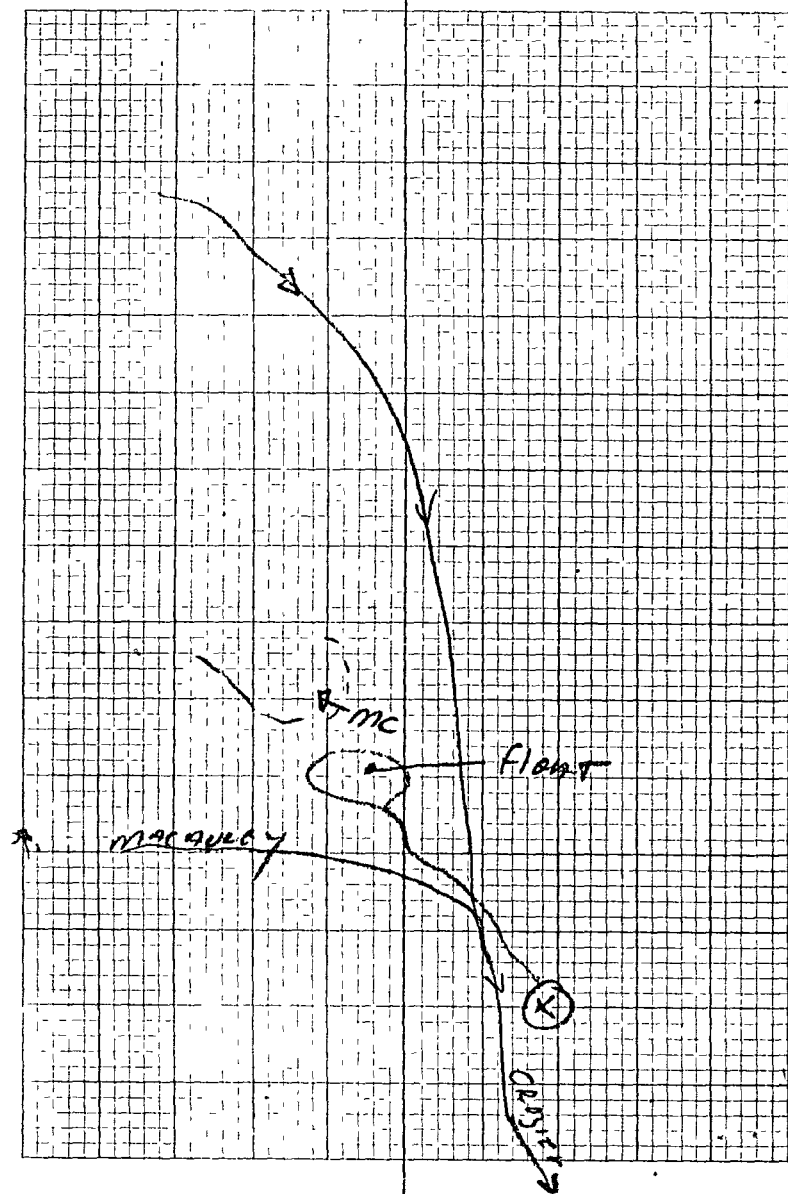
STAKE JAN 1-8

- Prospect along
line - infil geo
map.

- break camp

- sort samples
- sample descriptions

No 362



No 362

(24)

Sept 1

MC. 192.

- Travel to Crozier
- enk. - Rough. - windy

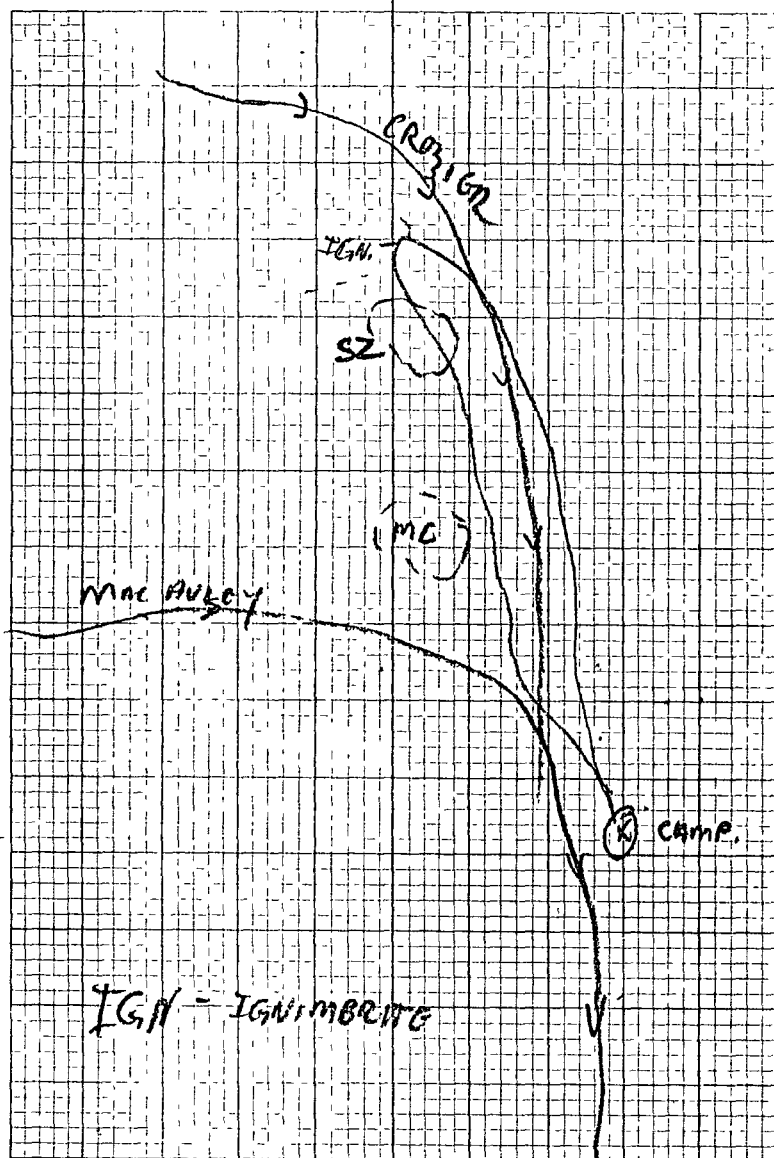
(25)

Sept 2.

- Travel up East side Crozier Lake
- Study of rock in scree
- QFP, Diorite, Granite as mapped - HART OF. 1991-4
- camp.
- Travel to area of interest - snow covered. - no new float types.

J.L. DARLING CORP
BACOMA, WA 98021

Waterbury
Waterbury



No 362

746

Sept 3

Trail to MC → SZ
area - snow covered.

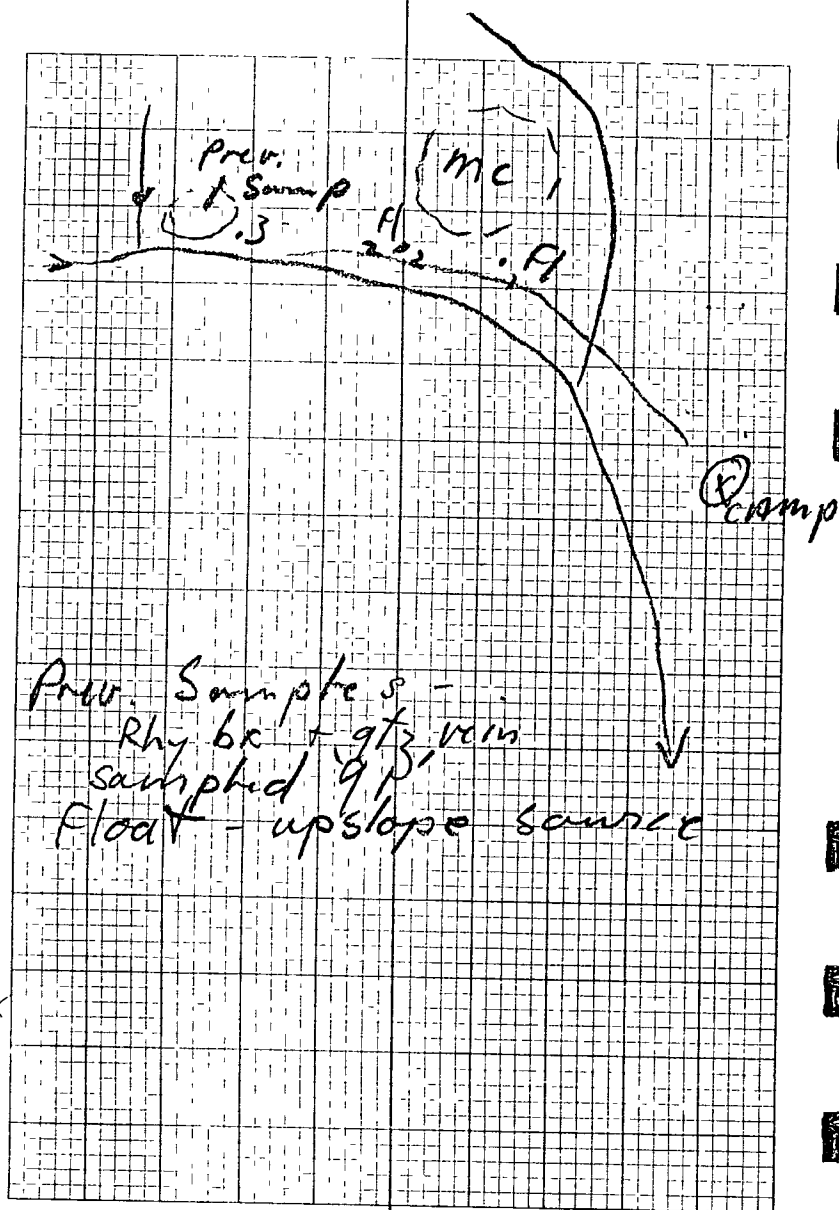
SZ - SCARLET ZONE

Area 4" crusty snow
covered.

IGN - QRTZ VEIN - previously
sampled.

- Outcrop dark → black
w/ white incl.

- Area has float -
mostly dark volcanics
and Rhy bx - previously
sampled.



NO 362

(27) Sept 4.

Ocast - Snow.

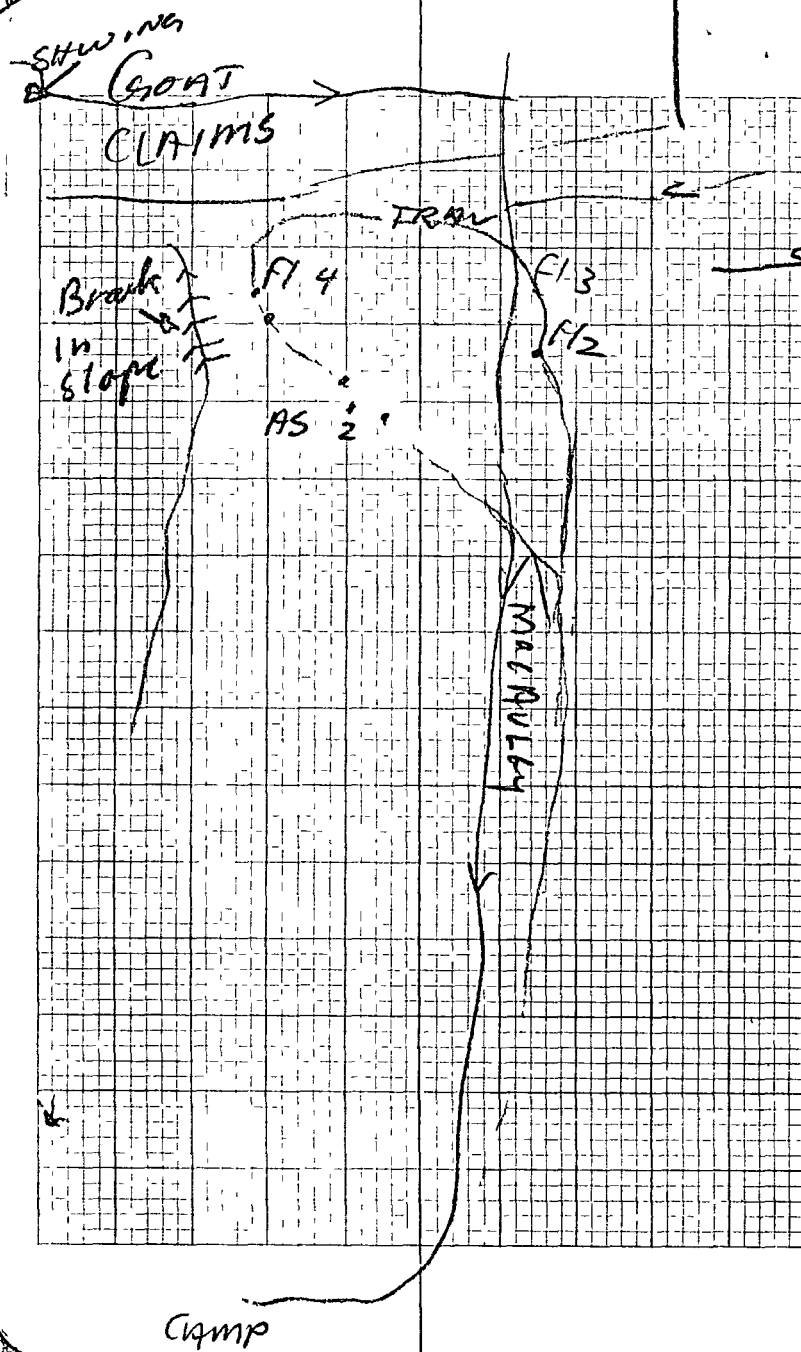
- Several inches of snow cover
- steeper slopes slick.

F1-1 as mc vein material
Elev 3900 ft
gray green gtz chalced.
vuggy - net text.

F1-2 - Abundant float.
creamy white Rhy.?
w/ misty fractures & 2°-5°
- Minor chalced flow stringers
- 2-4 mm.

F1-1-3 - upslope source
F1-2 source upslope on
local. float area.

H-3 Minor float - white-
greenish - flaky
(argillitic). gtz Rhy.?
- fizzy



No 362

J. L. DART INC CORP
BOSTON, MA 02101

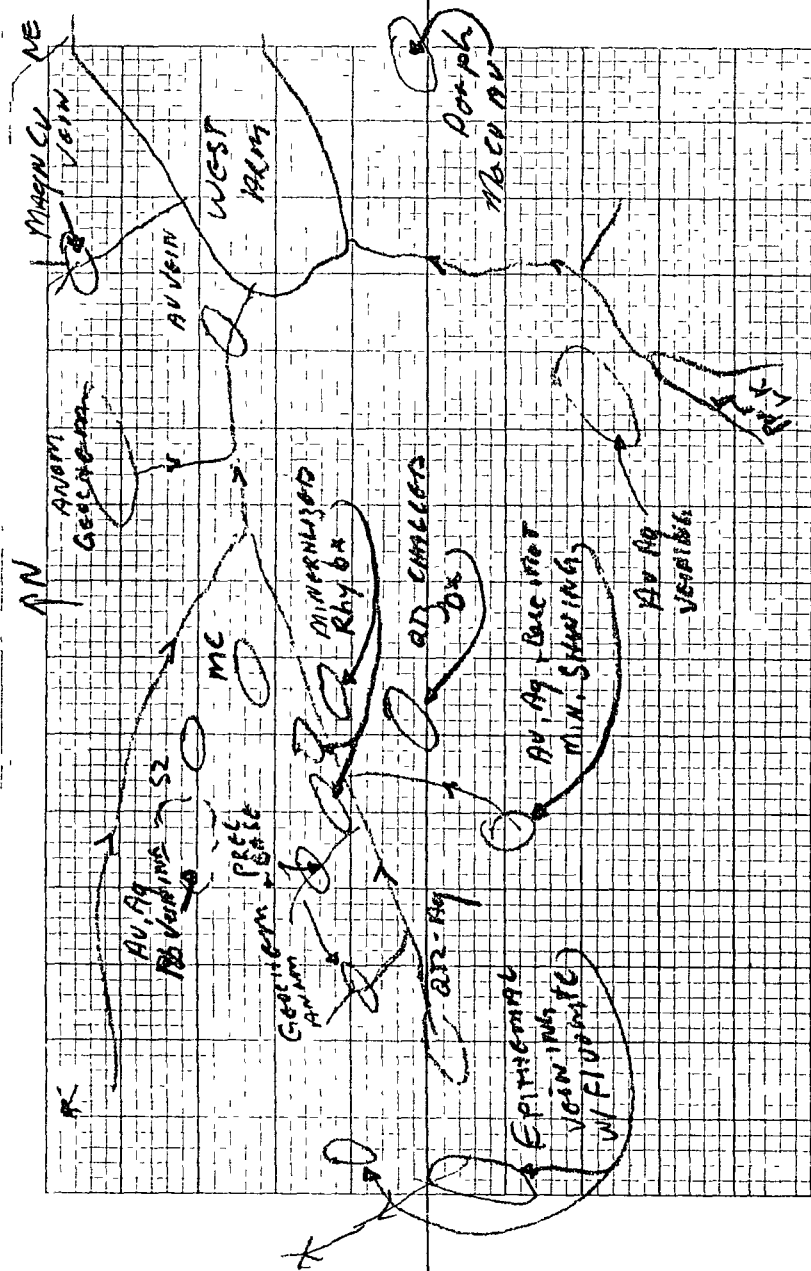
ALPHABETICALLY ORDERED

Sept 4

Trail toward Goat
claim area - Snowing

- F1.4 Qtz chacedony float
ven material
- Repr. sample of
big pieces - 2 found.
 - snow covered - probably
its more around.
 - upslope source
 - break in slope 200m
South

- AS ② More float in snow
train - Not steep.
As F1.2 - repr.
sample.
- Area snow covered.
 - steeper slopes slippery
 - other fl rocks ignimite
and Rhyolites wh - greenish
 - > dark volc.
 - QFP abundant.



No 362

JUL DARLING CORP
TACOMA WA 98421

By on the Honor

18) Sept 5.

Sheet, - ocast.

- Pack up - not many samples this trip

-break camp.

Base camp at lake.

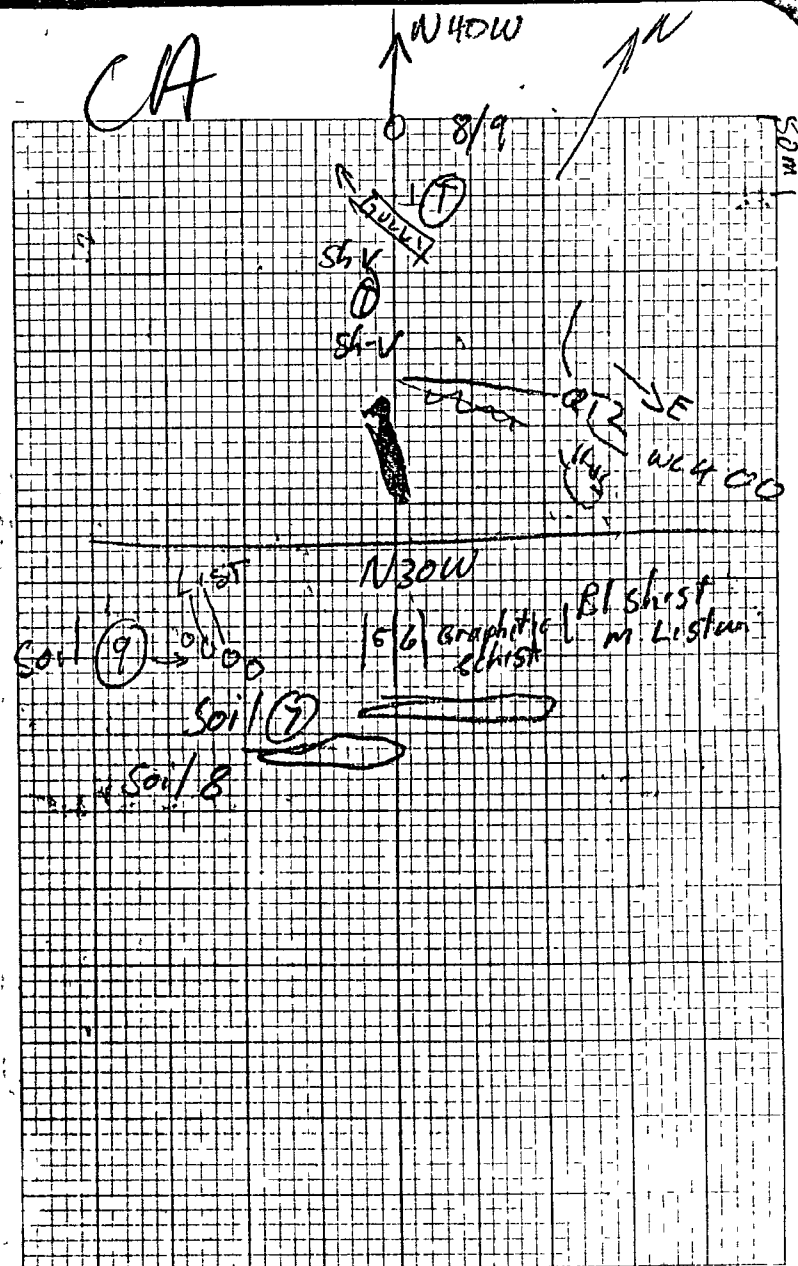
Go over minute-history
of area.

- widespread Precambrian base metal vining
- x-cutting and conformable to strata - volcanic flows.

- Grochum Anomalies GSC
sed's areas of Rhy + IgNim
and QFP, $\rightarrow$ GEP cont
granite, agglomerate GSR of
Erozier

(19) Sept 6 - Home

CA



30 Sept 14 - A-2

- Trav into little lake - nice day.

- Trav around lake.

WEST } west side rock Diorite -
SIDE } gabbro?

R - Siliceous black rock
N trending seam - resembles
black chloritic rock in
same vicinity

✓ - Minor qtz vein N trending

✓ - Some calcite veining to
several inches thick, seen
striking E-W

R - Some drk green pyroxene
rich rock

EAST
SIDE Outcrop of highly carbon
atized black schistose
scaly rock.

- Bleached? lt green on
East side of carb, black
slit

- Qtz carb stringers some
qtz/carb very rusty.

*

AZ LAKE SHAWNG
31 Sept 15 A2

Shawng A2-1
Shale (serp) carbonatized
- Black withering
- Red 14

{ Strike N40W - Dip 80E
A2-1 qtz carb / rusty & rusty soil
A2-2 qtz in alt qtz volc (stringers)
A2-3 Shisty black carb

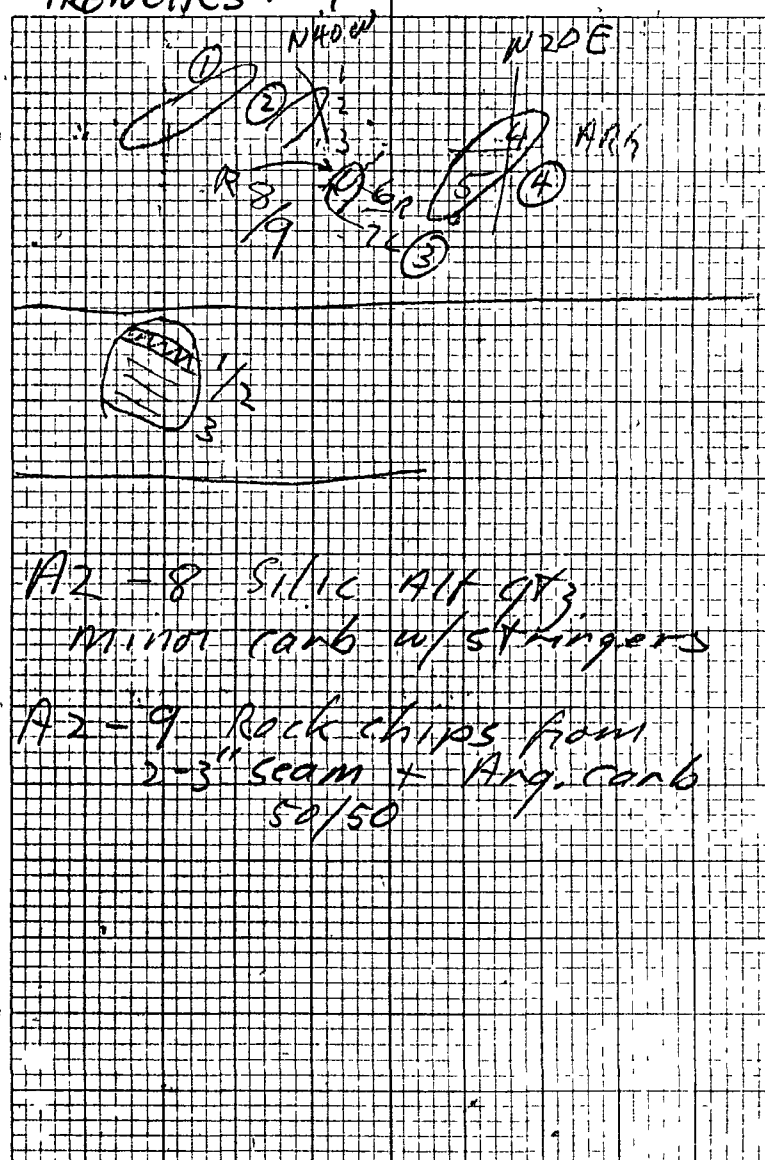
A2S-4 comp soil over 1-2'
NE-SW
mix re/br + black

A2S-5 comp soil 1-2'
NE-SW
mix re br and black

A2S-6 soil from 2-3" red vent
seam Strike NE

A2S-7 soil around silic'd volc
w/ stringers

TRENCHES 1-4



A2-8 Silic alt qtz
minor carb w/ stringers

A2-9 Rock chips from
2-3" seam + Arg. carb
50/50

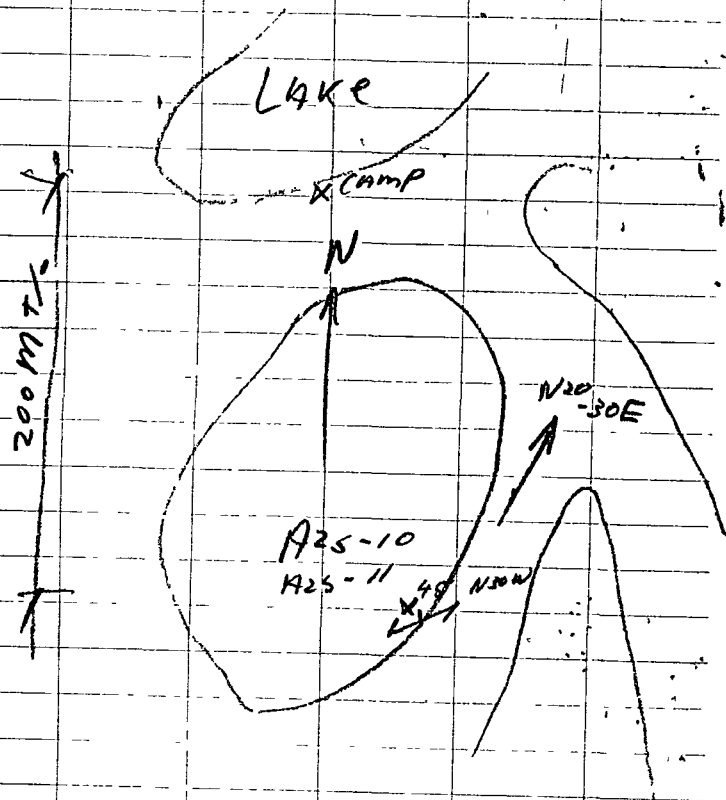
A2

Sept 15 SNOW PM
WIND $\rightarrow$ N

A2S-10 re br soil downslope

~~A2S-11~~ across 4' (across the
seam strike

A2S-11 seam material re/arrange
apparent strike $\rightarrow$ yell
W - N80 W Dip 45° N



(32)

Sept 16 Stake ET 1-8
Start.

- check outcrop along
line W $\rightarrow$ SW of lake
- Diorite + meta-equivalents
SW lake - some shearing +
carb.
shearing N20° E

Snow - Blizzard

- Discuss partnership
- go over Geophysics + Top
maps for area

Sept 17 (33)

Lk shung - 6, 7, 8, 9 trench

A2-12 - qtz veining as 1-2-3 samp
larger veins w/ graphite?
Appear N striking
- 3 m S of 1-2-3 area

R-3-1 Ang float imm. over
- rust, decomposed
A2-1 to } layer - stringer zone in alt. d. oite
3 } - over carb, graphitic
trench } shist

3-2 Graphitic shist (shear zone)
carb, rusty
- angillite? - volc shist?

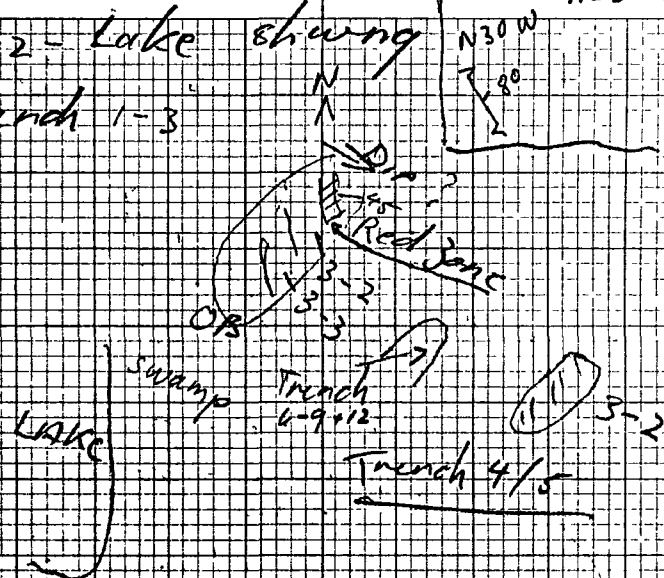
3-3 Rock UB? - Mixed in w/
graph shist in bbs,

TOP RONS TRENCH

A25-13

A2 - Lake shung

Trench 1-3



SAMPLE A2-13A - soil to

- test for up slope anom
- top of Rons trench - No 1-3 (A2)
- (- vert depth 12" re br soil w/ angular frags)
- yell for 12" - 24"
- could be decamp zone shist/bedrock

SAMPLE A2-13 (A+B)

Test 12" 24" vert depth
True depth 8-10" + 13

Sept 17

Soil survey - 10 M N30W Trench.
 - Soil 0-12" rusty re br
 w/ ang + rounded cl pebbles
 + stones - cobbles some
 local (diorite) w/ stringers
 probably downslope
 colluvium
 over 12"-24" glacial lt brn
 sandy/silty till stones
 over sandy silt.

A25-14 0-12" rusty red 3" layer over
 br - re br residual w/
 shist frags
 - on slope 45%

A25-15 N20W from 14, along slope.
 10' upslope from lake
 2"-10" depth - re br resid
 + colluvial over black ang.
 fragments of shist d-comp.
 - represents weathering
 of immed + upslope bedrock.

No 312

LAKE

A25-15

A25-14

A25-13

NW A25-15 20 M along
 A25-16 slope 24" Glacial + probably
 local pb over frags of
 graph shist
 Representative of weathered
 black shisty bedrock and
 lt brn colluvium or
 glacial till

A25-17 Same site 2M-S
 Sampled 6"-12" re ang br
 colluv - possible upslope
 source

No 362

Sept 17

A25-18 40M upslope ~~East~~ East
 - Soil Rebrndy shist
 frags 0-24"
 - Sampled rebr sandy to
 coarse dirt + rock frags
 12-24"
 - Resid + Till 50/50?

A25-19 40-50M-East upslope
 12" hole sample 1/4 brn -
 Rebr soil - sandy/silty
 - Resid? - Mostly lg-sm
 diorite? frags w/ dirt

20 Not Sampled - UPSLOPE 40-50M
 East
 0-12" - Diorite ang. cobbles
 boulders + rebr rusty soil
 12"-24" 1/4 brn till
 - upslope East - outcrop diorite
 " East - " shisty diorite
 foliation N-NW very

No. 312

ET Soil Survey A3

Sept 18

Break camp

Trav. 225° from #1 ET 7/8

START

A25-20/21

~~A25-20~~ 40M W 300°

A25-20 Top 6" under duff (mass)
 excluding 1/4 br leached
 - Rebr - coarse ang frags
 br sandy + rounded
 grit - pebbles
 R Local? ang frags + rounded
 - Possibly locally + distally
 derived.

A25-21 6"-12" br-br sandy
 silty
 - subang + rounded pebble
 - stones
 - Possibly more till than residual

20/21 Moderate slope

ET

Soils Survey

(34) W #17/8
Sept 18

- A2S-22 2/12 slope
+100M organics + brown silty
sand over cobble → 24" deep
- Sampled bottom 6-12"
- Fine fill? + organics
- local? / distal?

TRAV 210°

- A2S-23 - Rounded + subang
+60M stones 0-18"
210° sampled bottom 6"
40 Re br round / subang + ang
coarse grit / sandy silty
- Slope 2/12
- Many of the round + subang
stones could (are) be locally
derived re. diorite

Trav 210

- A2S-24 - R + Subang peb +
+70M stones - Mostly sandy
0-24"

A2S-25 Sampled top Re br
4" - 12"

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ET Soils Sept 18

- A2S-25 - Bottom of 24" hole
Same site of Re br sandy
R + Subang pebbles
Many stones look local

- Last 2 sites represented
separated drainages
between NW trend
ridges

A2S-26/27 10-20% R + Subang
Trav peb + stones 0-24"

270M 0-3" 12" Re br sandy
+ 230° silt - 1st silt layer
dip 6" over crest

26 - 6" of sand silt silt

27 - Bottom of 24" hole
of Re br sandy silt

30-40" ang + sub round
pebbles amongst
bigger stones

- Ridge area + small gully
slope 1/12 +

Et Soils Sept 18

A25-28 0-6" Re under ash - not
+ 60M sampled

at 225 - 24" deep Lt brn sandy
silt 30% ang + sub ang
mags - local?
3/12 slope

- Nose of slope coming onto
slope over previous
sample line

A25-29/30 2"-8" Re soil
+ 90M r-ang pebbles + 19 ang.
* 225 float

R - Lt tan - rusty w/
qtz flooding / stringers
+ 3 black small stringers
minor manip + pyrite
- Probably not far from
source.

A25-29 2-8" Re - Re br.

A25-30 12"-16" - 80% R. rocks
local mags + r-subang
pebbles.
Lt br. silt/sand

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Et Soils

slope 4-5/12; possible
structure upslope
N10E

A2-31 float at 29/30 site

- Lt tan (bleached/alterred)
rusty br - re. withering
- black stringers cutting
tan line gr. host rock
- pervasive qtz flooding
+ stringers cutting
black stringers
- py to 1" w/ qtz + wall rock
- minor manipsite
- Carbonates in qtz + rock.

Sept 22 (35)

- Gear up - leave
→ Wharton R.

Sept 23 (36)

- To QVH - South Crk
- sample - heavy
concentrate.
→ Set camp at End of
west Arm

Sept 24 (37)

Up to Canyon

CANYON

CC-05
CC-05B
CC-01

CC-02

CC-03
CC-04

CR-36 - Flatt m
CR-35
CR-31 - 2 SAMPLES
N-MID
Gossan Area
100' +/-
CR-32 - 2 SAMPLES
CR-33 - 1 Sample
3-10 top
of canyon

steeper?

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Sept 24 Cr. Canyon

CGO1 - Pan conc

- approx 5-6 Buckets
- Sluiced too fast

Loc. Dnsrm NW shute w/
Flagging,
NW wall

Vein s of salmon pink
QEP

Strike N30E Dip S 80°

CR-31 Samples N vein

CR-32 50' Dnsrm same
strike

CR-32A ACROSS 1.5M

CR-32B Vein core?

CR-33B Oxid'd material
rocky w/ stringers
Shear N30W Vert

CR-33A Upstr. N30E str.
Veinlets in Oxid + silic
material

CG02 50M below CC-01
Little black sand
S - end of shear gossan

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Sept 25

38

CC-04 - Canyon Mouth
- 3 buckets sluiced
1" + riffle
- Lots of black sand
2-3 times upper sample
- possibly just digging
deeper under rocks
- possible local source
i.e. structural NE
along w/ start of
canyon wall
OB covered

CR 33-T Random across

1.5M

- Jagged overhanging outcrop

? over CR-33, A+B

- Same material

Strike N10-15E Dip - Vert

N70E shearing to N of well

Sept 25

CC-05

CC-05B

- Major gully w/ flagging
- Shearing both gully walls
- N 10° E

- Gully strike N30W (E?)

CR-35 vein to .5M

sample East Arg + orange
alt. + rusty core mat.
.25M → stringers in QEP WR

- vein mat.

- Strike N50E 3m up gully
Bom creek. Dip 60° SE

ER-36 Lg chunks of qtz
Fl + green WR w/ lg feldsp.
mark - 2 pcs. up samples

CC-05 - 2 Buckets in creek
behind boulders
Not much black in WR
Too much OB

CC-05B - On beach in
bedrock crevices
2 Buckets. Lots of black

CR-39 - Green WR - small feldsp's

float? Tuff?

Left by
ph. } - w/ qtz + carb, pyrite
under } - Electrum.
below
gully.

MC-03 Lt greenish mostly
wh. pdm
- 10 grey clasts

MC-04 Juggy net tent
qtz

Sept 26 - Head back

Windy

- Sample North Creek
- Windward shore

WA -

No. 15 Three buckets from
inside bend - gravel
bar over - Cobble / stone
colluvium (colluvial fan.
- Dissimilar to Canyon
+ WA - S

Sept 26³⁹

WA-S - Most stones

granitic

← some qtz veins in
pinkish granite

← fair amount chlorite
granite

Sept 27

TRAVEL

(46)

Not a full
year 1939

J. L. DALING CO. INC.
TACOMA, WA 98401

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