

August 10, 1991

Work Order # 13305

Noranda Exploration Company Limited
 201 - 107 Main St.
 Whitehorse, Yukon
 Y1A 2A7

File # 13305a

Project # 312-A4

~~TAMBOURNE~~ LANSING
 Berdahl

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
R1N113	48	0.4	5	28	72	3530	268
R1N114	<5	0.2	6	<1	47	3060	305
R1N115	<5	0.4	4	<1	24	4450	386
R1N116	25	0.3	18	85	136	105	47
R1N119	<5	0.4	90	14	470	323	29
R1N1114	<5	0.6	70	11	309	226	35
R1N1124	<5	0.4	21	28	210	201	28
R1N1125	<5	0.8	09	<1	712	167	20
R1N1126	92	0.5	2080	37	1207	389	40
R1N1127	<5	0.4	75	2	182	385	36
R1N1133	33	0.2	121	13	91	115	<1
R1N1134	11	0.3	94	105	312	161	27
R1N1138	<5	0.4	29	<1	27	210	66
R1N1143	<5	0.7	45	4	84	217	50
R1N1144	28	0.4	67	5	2210	186	42
R1N1146	<5	1.2	60	7	1664	239	73
R1N1147	>6000	1.9	158	66	2540	333	110
R1N1149	247	0.2	51	5	453	220	59
R1N1150	67	1.4	120	28	531	248	57
R1N1151	25	0.5	296	<1	196	607	61
R1N1155	23	0.5	151	10	140	321	24

Certified by Chyokki



*Tombstone LANSING
Berdehl*

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Noranda Exploration Company Limited
201 - 107 Main St.
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Y1A 2A7

File # 13305b

Project # 312-A4

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
S1N51	<5	<0.1	36	26	198	240	51
S1N52	<5	0.3	63	18	101	303	92
S1N117	14	<0.1	141	18	188	320	73
S1N118	<5	<0.1	59	16	153	265	100
S1N1110	23	<0.1	103	20	184	117	64
S1N1111	<5	<0.1	67	18	658	105	51
S1N1112	<5	0.7	32	19	517	83	48
S1N1113	<5	4.0	236	15	242	232	131
S1N1115	<5	1.7	29	21	345	119	109
S1N1116	38	2.5	60	8	49	201	34
S1N1117	29	4.7	16	17	57	716	179
S1N1118	<5	3.5	3	15	49	342	86
S1N1119	<5	2.9	9	8	45	537	114
S1N1120	<5	<0.1	1	3	49	745	425
S1N1121	9	2.3	13	14	28	1090	128
S1N1122	<5	<0.1	39	21	110	31	35
S1N1123	<5	<0.1	42	20	134	37	38
S1N1128	<5	<0.1	18	21	135	22	28
S1N1129	<5	<0.1	10	14	102	24	17
S1N1130	<5	<0.1	18	20	79	58	66
S1N1131	<5	<0.1	22	19	92	62	83
S1N1132	<5	<0.1	17	19	98	69	23
S1N1135	<5	5.2	77	17	69	63	72
S1N1136	<5	<0.1	50	14	135	121	43
S1N1137	<5	0.3	19	10	81	108	152
S1N1139	<5	1.4	39	14	126	233	95
S1N1140	<5	0.6	60	19	119	217	119
S1N1141	<5	0.5	64	8	719	141	79

Certified by *Chyokki*



LANSING

August 10, 1991

Work Order # 13305

Noranda Exploration Company Limited
 201 - 107 Main St.
 Whitehorse, Yukon
 Y1A 2A7

File # 13305c

Project # 312-A4

Assay Certificate for Samples Provided

Sample	ppb Au	ppm Ag	ppm Cu	ppm Pb	ppm Zn	ppm As	ppm Sb
S1N1144	<5	3.4	47	18	185	303	246
S1N1145	<5	<0.1	79	11	1886	745	276
S1N1148	<5	0.3	149	19	163	412	129
S1N1152	<5	1.6	147	4	177	175	109
S1N1153	<5	0.5	27	38	273	123	46
S1N1154	<5	1.1	165	15	176	168	33
S1N1156	<5	1.5	174	17	301	153	38
S1N1157	11	0.8	65	16	304	78	41
S1N1158	34	0.4	41	11	70	124	189
S1N1159	<5	7.1	44	6	95	87	175
S1N1160	25	<0.1	95	16	453	248	58

Certified by Chyokko



Nizotin
SNOW

Berdahl

NORANDA VANCOUVER LABORATORY

Geochemical Analysis

Project Name & No. YUKON GENERAL - 312

Geol.: J.D.

Date received: JULY 04

LAB CODE: 9107-027

Material: 18 SILTS

Sheet: 1 of 1

Date completed: JULY 10

Remarks: * Sample screened @ -35 MESH (0.5 mm)
□ Organic, Δ Humus, S Sulfide

Au - 10.0 g sample digested with aqua-regia and determined by A.A. (D.L. 5 PPB)

ICP - 0.2 g sample digested with 3 ml HClO₄/HNO₃ (4:1) at 203 °C for 4 hours diluted to 11 ml with water. Leeman PS3000 ICP determined elemental contents.

N.B. The major oxide elements and Ba, Be, Ce, La, Li, Ga are rarely dissolved completely from geological materials with this acid dissolution method.

Lab No.	SAMPLE No.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Sr	Ti	V	Zn
		ppb	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	
116	123755	5	0.2	2.39	2	105	0.6	5	10.10	0.2	96	21	42	98	3.38	77	0.19	10	16	1.45	412	3	0.20	58	0.08	2	372	0.22	100	70
117	123759	90	2.0	2.85	133	38	0.4	12	5.27	0.2	62	526	17	1994	15.29	67	0.08	7	22	0.35	4199	6	0.03	80	0.10	3	18	0.06	55	55
118	123761	50	0.2	3.26	2	122	0.4	5	2.06	0.2	53	21	72	149	4.21	52	0.33	14	10	1.33	534	2	0.24	40	0.09	2	129	0.22	142	80
119	123762	40	0.2	3.41	2	141	0.4	5	1.85	0.2	53	21	70	175	4.12	54	0.37	15	9	1.31	527	2	0.23	39	0.10	4	133	0.21	136	78
120	123763	20	0.2	2.54	2	119	0.5	5	6.75	0.2	84	19	68	149	2.96	68	0.18	10	12	1.28	452	2	0.22	52	0.07	2	369	0.18	92	75
121	123765	10	0.2	2.33	4	79	0.6	5	6.87	0.3	79	25	43	111	3.98	69	0.19	12	18	2.13	517	3	0.19	55	0.06	2	230	0.23	123	87
122	123766	10	0.2	3.65	2	78	0.4	5	2.73	0.2	48	30	66	77	5.00	56	0.20	11	19	2.60	638	2	0.35	81	0.06	2	128	0.27	140	77
123	123767	10	0.2	2.56	10	89	0.5	5	5.26	1.1	76	22	51	105	3.85	64	0.23	12	20	2.31	517	3	0.15	52	0.09	2	110	0.24	114	106
124	123768	5	0.2	2.07	19	99	0.5	5	6.03	0.7	79	19	39	96	3.34	65	0.21	13	14	1.15	527	4	0.14	39	0.08	2	210	0.22	102	122
125	123769	5	0.2	2.07	16	170	0.6	5	12.62	0.2	109	15	34	64	2.57	74	0.20	6	14	0.85	495	4	0.17	35	0.06	2	417	0.16	82	55
126	123771	5	0.2	2.17	16	132	0.6	5	12.69	0.2	106	13	31	55	2.41	70	0.19	9	12	0.72	453	4	0.17	29	0.07	2	520	0.18	82	55
127	123772	5	0.2	4.60	19	147	0.5	5	2.28	0.2	54	40	40	110	5.30	54	0.28	15	22	2.80	776	3	0.27	150	0.08	2	148	0.23	119	95
128	123774	5	0.2	3.22	2	331	0.7	5	1.30	0.2	54	24	63	73	4.90	53	0.29	19	15	0.89	1774	2	0.09	48	0.10	5	116	0.25	119	215
129	44926	5	0.2	3.34	11	191	0.6	5	1.59	0.5	56	24	74	95	4.72	46	0.50	17	13	1.65	1067	4	0.09	46	0.10	10	49	0.16	136	147
130	44927	5	0.2	3.70	3	136	0.6	6	1.52	0.7	48	35	30	127	6.61	56	0.40	14	12	2.47	1725	4	0.09	41	0.07	6	62	0.23	211	229
131	44932	5	0.2	3.73	2	371	0.7	5	1.38	0.2	50	16	53	37	4.05	34	0.36	19	18	0.98	661	1	0.15	38	0.08	2	316	0.17	102	99
132	44933	5	0.2	3.55	10	244	0.6	5	1.28	0.2	34	19	78	63	4.41	36	0.62	13	15	1.29	633	1	0.13	37	0.07	2	92	0.20	140	99
133	44934	5	0.2	3.32	2	130	0.6	7	1.28	0.2	41	23	46	61	4.68	44	0.40	13	31	1.64	797	2	0.13	39	0.09	6	114	0.24	137	93



GEOCHEMICAL ANALYSIS CERTIFICATE

Noranda Exploration Co. Ltd. PROJECT 9107-027 312 File # 91-2293

1050 Davie St., Vancouver BC V6E 1M4

Nazota
Snow
Blowfall
AA

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb	ppb
123751	1	102	2	18	.1	18	19	2067	4.78	2	5	ND	1	23	.2	2	2	24	6.07	.036	2	19	.23	39	.09	2	1.53	.01	.02	1	14	5
123752	1	262	5	19	.1	23	26	963	5.55	3	5	ND	1	21	.2	2	2	12	2.40	.030	9	12	.21	24	.06	5	1.05	.02	.01	1	10	5
123753	2	134	2	24	.4	121	34	141	3.17	11	5	ND	1	240	.2	2	2	29	1.86	.028	2	51	.61	72	.11	3	2.42	.13	.14	1	7	5
123754	1	9	19	55	.1	3	4	696	2.05	10	5	ND	1	92	.2	2	2	9	4.83	.034	12	3	.06	18	.01	8	.51	.03	.14	1	1	5
123756	1	352	5	88	.4	102	31	368	8.71	2	5	ND	1	68	.2	5	2	328	2.81	.033	2	406	1.84	103	.63	8	4.83	.34	1.92	1	11	5
123757	3	1904	2	50	1.3	30	38	424	4.36	2	5	ND	3	56	.3	2	4	66	1.90	.057	8	130	1.06	35	.12	6	1.80	.12	.07	1	37	5
123758	29	6717	4	152	6.3	63	118	938	8.05	5	5	ND	3	90	1.3	2	11	21	7.82	.072	8	49	.38	44	.05	3	.91	.03	.16	2	370	5
123760	1	10185	2	338	.5	51	141	655	13.80	4	5	ND	1	145	1.6	2	11	64	7.03	.054	3	29	.47	27	.15	9	2.02	.02	.01	1	4	5
123764	1	161	10	37	.1	53	23	460	5.51	2	5	ND	1	132	.2	2	2	157	1.95	.010	2	219	1.59	25	.18	4	2.04	.23	.05	1	2	5
123770	5	424	2	10	.3	72	30	104	5.33	3	5	ND	1	325	.2	2	2	24	2.31	.114	8	28	.37	52	.10	6	3.18	.59	.09	1	6	5
123773	4	802	2	17	.2	20	8	255	1.51	2	5	ND	1	9	.2	2	2	18	.95	.003	2	28	.34	8	.01	2	.49	.02	.01	1	1	5
123775	1	3411	4	1355	2.1	31	13	1447	3.61	3	5	ND	1	18	4.8	2	7	34	10.49	.003	2	94	1.00	43	.01	3	.80	.01	.01	8	4	40
44928	1	182	47	504	1.1	8	43	913	9.26	99	5	ND	1	9	.9	3	2	59	2.09	.021	6	22	1.37	9	.01	7	1.31	.01	.01	1	81	165
44929	1	2408	21	5326	3.5	64	36	1434	11.08	81	5	ND	1	5	10.9	4	5	122	.51	.029	2	161	2.09	17	.08	4	2.56	.01	.01	20	11	70
44930	1	62	2	56	.1	38	8	480	2.97	2	5	ND	1	120	.2	3	2	52	10.68	.053	6	69	1.72	103	.05	10	1.78	.01	.56	1	1	5
44931	1	52	7	39	.2	8	13	1063	3.94	37	5	ND	1	34	.2	6	2	14	7.28	.136	14	10	.47	39	.01	4	1.10	.01	.26	1	3	5
STANDARD C/AU-R	18	56	44	132	7.0	69	32	1035	3.96	39	19	7	39	52	18.9	15	20	54	.48	.089	39	58	.88	176	.09	34	1.88	.06	.15	11	500	1300

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

DATE RECEIVED: JUL 4 1991 DATE REPORT MAILED: July 10/91 SIGNED BY: [Signature] D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE Yukon Gen. (JD)

Noranda Exploration Co. Ltd. PROJECT 9107-027 312 FILE # 91-2426

1050 Davie St., Vancouver BC V6E 1M4

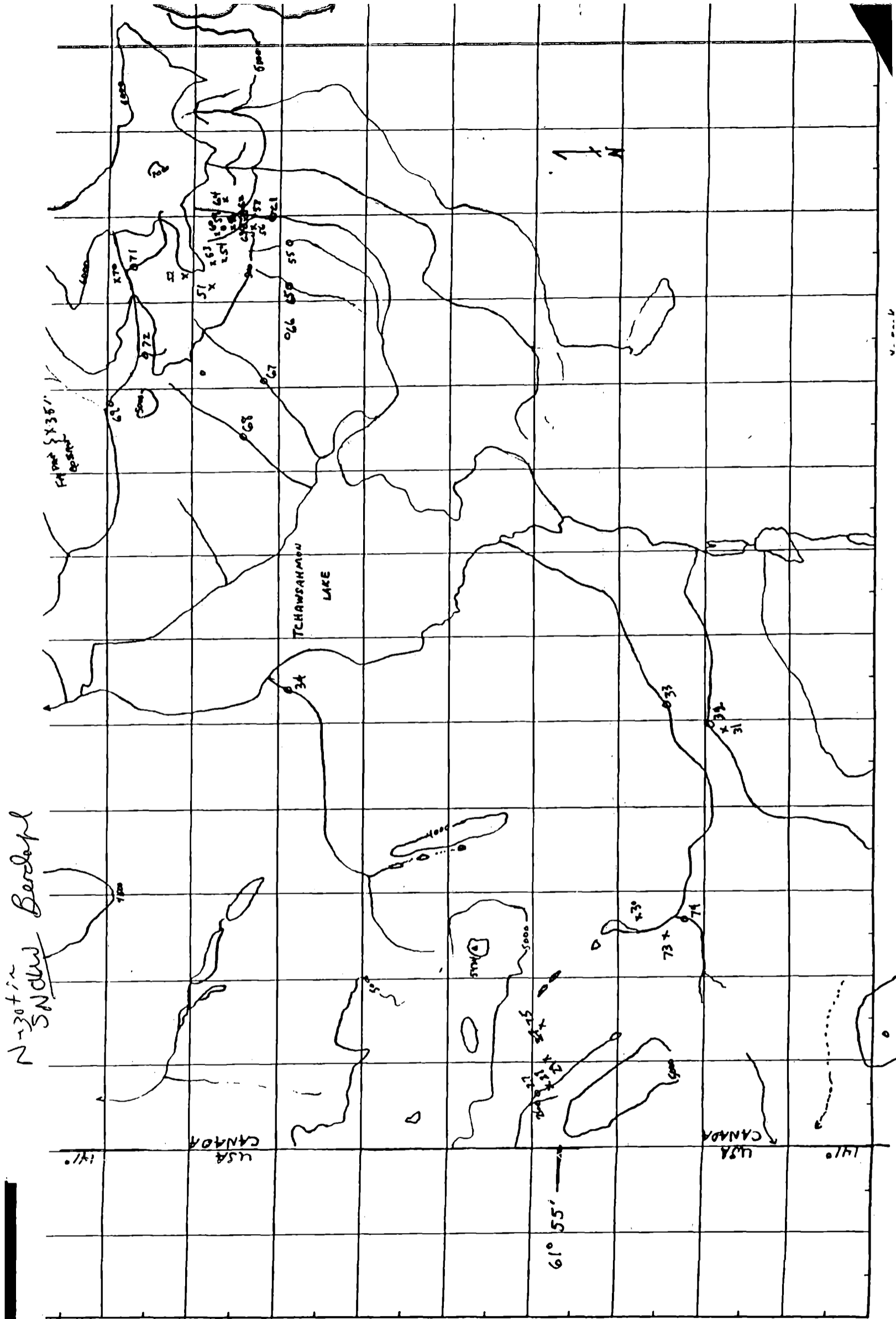
SAMPLE#	Hg ppb	
44926	30	Wuzotia Snow Berdeff
44927	5	
44932	5	
44933	40	
44934	35	
123755	5	
123759	5	
123761	10	
123762	10	
123763	15	
123765	20	
123766	10	
123767	50	
123768	15	
123769	30	
123771	50	
123772	30	
123774	110	
STANDARD C	1400	

- SAMPLE TYPE: SILT PULP HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: JUL 10 1991

DATE REPORT MAILED: July 12/91.

SIGNED BY.....*C. Leung*.....D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



No. of SAMPLES 34 35 SAMPLE No's. 123751 - 75 + 44926 - 34

PROJECT SNOW DATES SAMPLED 6/3/91 to 6/21/91 COLLECTORS R BERDAHL

REMARKS _____

SCALE 1:50,000 N.T.S. No. 115 F/15

G.C.I. No. 58701

July 19, 1991

SUMMARY Nuzotin Project: 1156 / 13

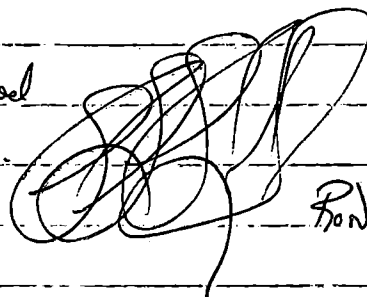
The results for the Nuzotin project include the staking of 4 'SNOW' CLAIMS. Four more will be added in August to the North of the present claims.

NORANDA LTD has agreed to run all rock, soil, & stream sed. samples of the Nuzotin project for a first right of refusal on the 'SNOW' CLAIMS.

Results of the assays are mixed. Au (gold) values in rocks that have good copper are disappointingly low, but 90, 50 & 40 ppb Au Stream Sed values hold some promise. This along with high Cu (copper) values, to 10,000 ppm⁺, are encouraging enough (and the SNOW's close proximity to 'their' AZ property) to justify a property visit in August.

It appears interest in Snow depends on its stratigraphic sequence in relation to certain sequences on the AZ. The stratigraphy on the AZ is still in question at this point.

Assay reports will be forwarded when available from Noranda.



Ron Berdahl

cc JS Berdahl geologist
YTG MIP

July 19, 1991

SUMMARY KUWANE PROJECT:

The end result of the seasons work on the Kuwane project are inconclusive as the assays gathered have yet to be analysed. However a new, highly mineralized, quartz carbonate/mariposite shear zone was discovered 2.5 km to the north of the ISB claim's orange canyon showing (5⁺g over 2m) (311g over 2m).

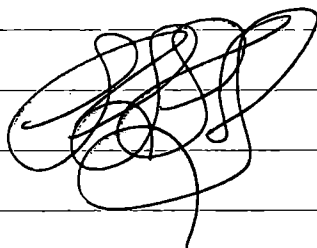
On the basis of the samples NORANDA LTD has agreed to assay all rock & stream sed samples.

A series of cut/slashed/flagged grids were established for future geophysical surveys. This includes 5.2 km of cut out Baseline on the ISB, ATK, J10 and newly staked MBB (1-9) claims; 11.2 kms of line with stations @ 25m intervals.

Two companies have expressed some interest in the property. Noranda plans an Aug/September visit. A junior company - Comoreplex, an Albertan oil & gas concern, has also been in contact w/me.

The assays and assessment reports will be forwarded when complete.

cc JS Berdahl Grabstaker
YTG MIP



June 3 ~~mid~~ day - To White River to conclusion w/ ^{TU 10:30 AM}

Noranda crew, stakers etc for helicopter charter into area. Two Camps in: one for each phase.

@ Fry pan to ~ 1/2 May - very little snow on high - Jim @ Kieldra says 1 month ahead of schedule, May 31 - heavy snow to 3000 ft @

Tchoukashon original plan to change to height of land above + south of Hatcher Crk. - 5 big rams there; lots of ever loads on south slope

in. Snow to 2' - camp + ports unloaded at tree line - 4800'. Camp B @ ~~some~~ Drop Lake

(2 more horns dropped) - ports (6 chains) + 2 boxes food

~~Two~~ Trans North - Ranger Bill III - 900 #^s - 30 ports +

2 small camps - pilot sitting; Geoff Ruskert leads

staking crew. Noranda - Shirley - Motors; Gernot, Eric

Todd? Geophysical crew in on 6th

June 4th 90%⁺ of south slope covered w/ snow to 6th

camp @ 4800' on basalt flow w/ epidote etc filling

voids; first bluff above camp subdivided

grey argillite - juxtaposed to that (up ridge) grey (bluff?)

biolite - grey calcareous 'slate' w/ fossil

shells to 1' + - STRIKES E-W dip 50 m

horizontal bed Then below - 50m hor; (100^{ft})

greenstone w/ green to black 'phaneritic' to

fine grained phaneritic, a white Calc bed

dipping 25° to ^{south} west w/ 6' vein (some dip) of

silica or siliceous w/ sulphide. Biolite also have

Some fine grains of sulphide - see 1/5 close
 the silicic argillite - "blebs of silvery sulphide".
 show sample of fossils in 'heff' bioherms taken.
 2 Kestrels. light rain - snow everywhere.

1/51 - limestone float - probably originally "greenstone"
 taken at 'original camp location'; good amount of
 very rusty float + outcrop, esp on ridge
 edge (going east) - The maroon/green and/or
 of the have disseminated sulphide but seem
 to be common, 1/52 rusty outcrop on canyon ridge
 @ creek - large outcrop 20m across - seems
 to be associated w/ the contact of granodiorite
 (on ridge) + greenstone - (rusty same common
 to several feet in 'canyons' draining ridge -
 esp 12-14 creek) - This outcrop also has

limestone or "meta limestone" on either side.
 on south it seems to dip SE @ 45° -
 possibly same as outcrop - tough to say -

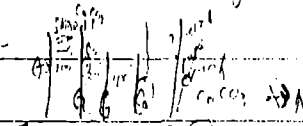
Could the ~~meta~~ meta CaCO₃ be a sollicitant
 as in walli claim - rx is white/gry, massive
 not needle like crystals. Below, on ridge
 1/53 - silicified 3'+ limestone alt rock
 west dip strike ENE w/ yellow to rust alt
 rock - difficult to say parent material.

On ridge (main going to 7000' pk - granitic
 w/ seams - 2' of white/green rx - syenite??
 mostly nephelitic - or an meta rock ???
 seams strike ~~at~~ E/W. 5 m. runs below me - 2000'

1/54 - 1st gully east of camp, silicified
 organics on top. This is silicified and
 creek. Above gully - fine grained
 limestone, red and grey, silicified, silicified
 difficult to say but apparently NW strike + dip
 to gully, silicified 2' mostly all granitic
 some sulphide (pyrite) but strike is 'greenstone'
 w/ the (fine grained) (metachert) (metachert) (metachert)
 silicified by process - see 1/51 + 1/52
 It goes into 3rd / 13th creek (east end of)

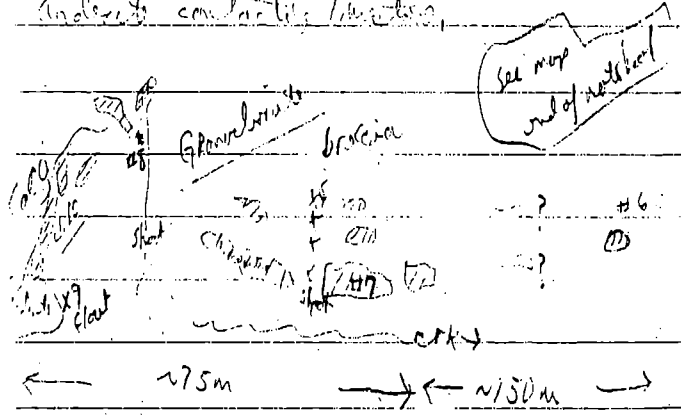
possible 25m shear w/ magnetite shear zone
 going to the south to granodiorite ridge.
 Top of shear silicified, w/ green, silicified
 alt green rx + garnet (brown silicified) bands
 then zone of granitic rx. From gully
 (100' wide) to the south. Then rx → 1/55

magnetite in green, brown, alt some pyrite
 1" granitic veins, massive, silicified + sulphide
 pyrite + calcoprite. - This is probably an
 extension of the mag outcrop in the previous
 creek (1/54) with the CaCO₃ outcrop above it.
 (granite outcrop directly above creek)

Series of parallel "slivers" on right hand of right hand of
 12/14 creek -  mix of quartz/CaCO₃
 G-quartz
 CaCO₃
 20° Dip N (metachert)

IF156 alt. diorite w/ qtz stringers - orange
 malachite/malachite chlorite pyrite 20° N - Rocks on
 this side consist - left limit of R.L. of additional base
 quite nice mafic - diorite - and up @ #6 - 15' long
 (to north 3-6' west (upflow) possibly related to
 colored (rust) or up of ash; half angle, some sun
 Diorite body - 100's of ft (up creek)

IF157 - massive sulfides in skarn w/ malachite
 - not unlike A2. Rocks of skarn - rusty red w/
 garnet etc. Skarn on left limit ~ 100m
 above by - runs in 'narrow' for 75 m
 in granoblastic (adjacent to complex into
 is breccia w/ granoblastic matrix;
 To the north limestone (S. line crystalline contact
 granoblastic - much azurite & malachite
 in limestone. Also very thin, pyritic
 and/or contact limestone.



IF158 skarn - varying degrees of sulfides
 more under snow/over bushes? malachite
 3 pictures taken
 pyrite
 (chalcocite)
 pyrite etc.

IF150 - 30's - alt. in matrix of mafic material
 etc in vertical "vein" then skarn material
 IF159 - float from cliff area where skarn
 contacts granoblastic - heavily pyritic
 rusted out or w/ malachite skin - no sulfides
 only rust. More rusty or up creek but
 probably rusty and/or - one outcrop
 near ridge (6-6500') that is near
 mapped granoblastic - maybe of interest
 (still 70% snow cover on high (west of ridge))

June 6 - continue to work east of camp
 wake up to gale force winds / very wet snow
 tent blown off mtn - take couple cans of
 food sleeping bag head to try for
 June 7 - rain/snow about 4000 (stubby)
 talk w/ Norrish geologists of skarn geology, snow
 of very high etc

June 8 - snow - back to former tent site -
 grabbers etc eat all leather (tent penetrated)
 - Drop ~ 900' to big space (all km to try for)

June 9 - continue to prospect west of old camp
 make crevices for chrysosulphide of rocks
 shal - snows all day @ 5560 - knee
 deep - all new snow - sample stream @

IF159 - the way branch (left limit)
 how what appears to
 me to be a "multi-phase"

intrusion - breccia consisting of
a granite matrix of clasts of
granodiorite - to 1' + unlike the
right limit - all rx here is granodiorite
granite - much magnetite - to 1/2" crystals
often in granitic rx's. Some limited
visibility + ground searching; it would
appear to me that that the
gd have been intruded - by the more
felsic granite - thus giving rise to
gd breccias - granites seem to predominate
on west side of canyon - breccia + gd
on east. Whether the two types of
granite rx represent two phases of the
same event (probably) or two separate
events is unknown. Magnetite in rx

is also of unknown origin / timing - possibly
later stage mag body moving into granite ???

Rx samples taken in float train off
left limit of left limit trib. was built

1F1513 - tan granitic rock - felsic

w/ inclusion of mafic - magnetite
Xhals (photograph) - rock mag

1F1514 - granite (last stage of multi phase
intrusion) w/ some mag matrix character
+ mag / mafic phenocrysts

1F1515 - magnetite from mag body? -
large Xhals to 1/2" - str mag - minor granitic

w/ 1x phos + magnetite - magnetite
felsic granite w/ 1/8" malachite stain
across top (vein) of some breccia
from top of ridge - ^{South} shear + sample
#6 is a granitic / gd contact
(not seen) rx include granite w/ 1/2" +
+ veins of granite w/ disseminated sulfides
some almost schist like rx (partic mag)
granite w/ possible skarn - garnet (amorphous)
character + an "green quartz" -
sub-cryst. - ? possibly altered - situated adjacent
CO₂ bed just S of granite / granitic contact
Also near contact - light gray magnetite
body (see June 5 notes - some rock - possible
contribution of bed in strike)

At confluence of creek (in Hilden creek) large patches
"black overbite" w/ 25% finely disseminated
metal magnetite (float)

June 10 - found riprap (have sharp) under
large spruce tree - still searching - about
~3200'. retreated to try for to dig out
attempt to move gear station off to
Hilden creek to attempt a hole west of
12/14) creek + mag high (snow ft deep) water
than 5500 - ridge @ 6000)

Strm sample taken on following

1F1516 @ finally creek - only to camp (to sample)

IFIS 11 -> drainage off
 angle bottles found near stem zone in
 this area primarily.

IFIS 18 - small creek draining into Lk from
 west side angle bottles - see map.

Area 1/2 mi. At Fry Pass - bear have
 hit tent (too wet to put away, bear
 time) - saw tent, 3" between

outside of lower canine tooth. tracks of

7" x 1" year on own on trail,

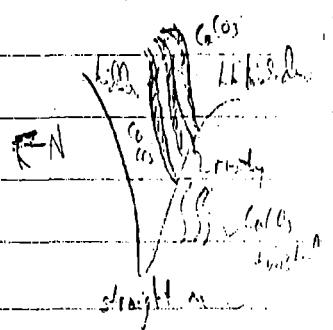
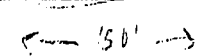
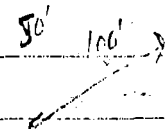
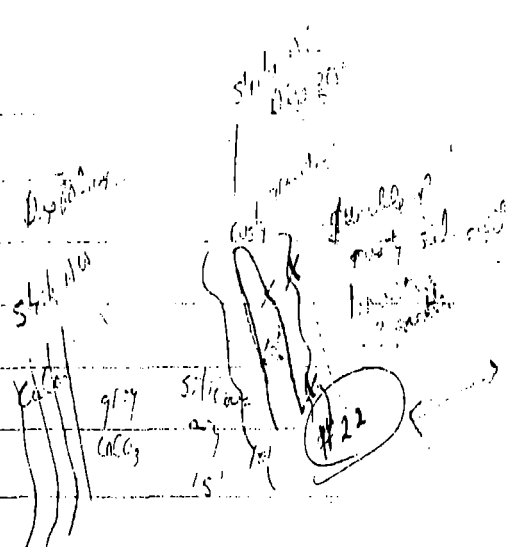
also very fresh across track. bear

camped at Dutton Camp.

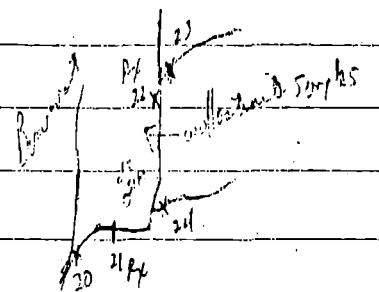
work on A2 going slow - too much very
 activity - good what have good results, in
 lots of flipping - hope no problem w/ out-fitter
 give encouragement of 12(N) crk. also good
 very commonly found on ridge above.

showing (Powers) & skinn type rx as well
 (Garret) - May be IP & trench at Kibota.

June 11th - no rain snow overnight
 to Hidden creek to see if accessible - for
 stem work etc.



12" good slope
 - rolling
 6" snow at end line
 - off clean block of
 'Chern' compliance
 Snow covers north for
 slope 'entirely'.



4/10/12

and Norman geologist in area of AZ

- try to learn something of 'volcanic' 'argillite w/ mag' potential in area

origin of AZ showing those geol-
studies! (some had used geologist before
paleontological error) Grant, Todd

projector 3rd yr geol - Vana; Eric local

also discuss mag anomaly / VLF / 4 IP
potential in this w. klone (Toni) area

- good weather w/ some rain seen

AZ main stormy looks like front

very mag storm for next 4-5 days

predicted (from radio rpt) Nevada looks
all sample

June 14 - move to prospecting area - 1076

Down a gopher hole hit 10 day

cache - ~50% food gone - found

(Candy like orange bit) - anything in

plastic - peanut butter, cookies, etc -

brought complete pack of noodles from

Fry pan cache - Food will be tight;

100% / 300 / 1000 - possible coal

seems on creek @ approx 3700' - all 11

seem to strike SE. Calc. ridge ~~and~~ north

of creek at top - below that - brownish

stone, argillite (whitish @ cliff on stn)

granite tubular etc

sample waste off the front

June 15 - Saturday - investigate high ground to
the ~~the~~ north. Searching for granitic zone

this includes a set of bedding - base of

Calc. thin argillite just to the north

this smaller and different with a lot of

green calcite, pyroxene etc. found in soil

A mag high ~~seems to coincide with a high~~

will be argillite bed. The idea in this area

try to locate geology similar to that found

just across the border, where Porphyry etc into the

Basin (I knowed 1969 USGS AK) where

mineralization is described as a "Galena

intrusion" etc that seems to be a complex

(the same occurs west of the basin & up to

1st fault (now had a basin)); Much of the

discovery - argillite, siliceous nodules etc

seem the same. @ Nevada (west of border)

porphyry in argillite to hydrothermal ~~which may~~

& ^{min} in adjacent argillite / Calc.

Probably is type of fault along at

'the international' boundary. According to

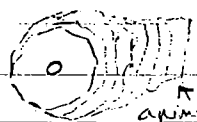
geol map ~~where~~ we have the possibility

of intrusions in late Mesozoic formation etc

(hydrothermal to hydrothermal). South of line

As well as smaller intrusions may have

the same column change position is common
 like a black serpentine - slick-sappy fault -
 fair bit of orange matrix, also @ P - in a
 1m x 2m x 1/2h rx in creek: the black w/
 numerous calcite veins, thin - irregular
 fossil, & some pyrite, largest fossil
 segment 8cm, largest pyrite x 1/4" ²
 (X-6 sample of fossil) calcite appears to have
 replaced fossil - on x-section like rx but
 w/ a "ventral" (i.e.)



animal?

36 ribs ^{with actual}
~~ventral~~ ~~actual~~

seam is not coal but w/ of shale on surface
 described previously; T. fault @ Q -
 fairly major but short structure - organics
 in bottom (no sample taken) - 75 yds wide - trace taken not mapped
 rx on either side either outside or
 "dirty greenish w/ xbs - mag" or at R (sample X-1)

@ P pillow basalt - vert dip - strike @ 190° -
 between vert dip same - like rusty shales that
 that rubes all along creek (left bank)
 outcrop of pellets (1/2 w/ sandstone? interbedded) 10" high
 - several sections - 4 ft wide - like walls
 of piled stones

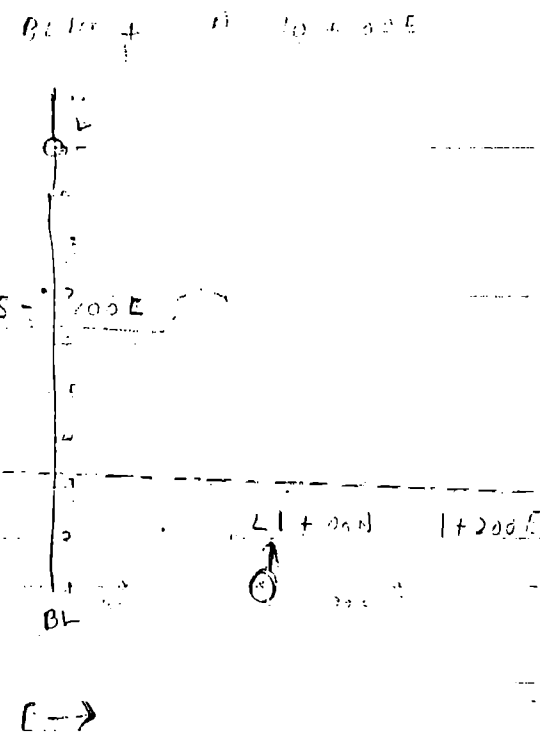
June 18 1962

try to adjust the same along creek, 191000
 forming valley at camp represents the fault
 - dirty (concrete) outfiller, sample 2" thick
 15 steep on "dip track", some 7m on before
 - 2 inches of calcite, some white, but not massive
 but calcite stands 12" up to @ corner of
 (another fault) - slickenside - small
 steep @ 50 yds - very tight units
 on - some 7 - 2 nice very large slip - near place
 - lots of spotting - no calcite @ 100 yds of
 steep - 15 15 27 @ Q qtz 2" - calcite vein 1/2"
 w/ pyrite, minor calcite, - see creek and
 drainage, 1F1528 - stem soil at one below
 boundary uk - 1F1527 - boundary creek
 Galena deformed in qtz of 1/2" w/ calcite
 1F1530 @ P below - 110° strike 30 yds wide
 "green stone" black, yellow to gray - matrix
 w/ 6" qtz, some dip, strike - sample from
 contact - green stone / qtz - lots of pyrite
 orange dirt in creek, steep distance
 As rock turns to the north, with a big
 hill, back bank, some of the fault contact
 Above 27 - massive, sandy green stone
 sulfide (1 foot), some weathered towards
 1F1531 - beyond few calcite patches
 also a little, some green? some of
 calcite in 1/2"

1F1535 - 36 at base creek
 and a fault creek (QPM - down fault
 located at 2 days ago) respectively.
 1F1537 - 1st day 22' and 1/2 mile
 papers for 1st day 22' 3-3
 1F1537 - 1st day 22' 3-3
 1F1537 - 1st day 22' 3-3

1F150 - 1st day 22' 3-3
 above 1st camp @ 22' 3-3

Rocks to Naranda for 1st Right
 of referral - maps & rock
 descriptions complete



Review 1 - 11 after discovery

target evaluation:

see Report by Arthur on TOSH (including

JIB JSB OAK + MPS properties: for objectives/characterization

July 3+4 to Klumbe River with newly acquired 10 1/2 river boat - hope to

depend less on expense on travel

- boat tied on lake behind 1118;

Trip down River approx 23 miles -

first 8 very broad w/ several

difficult passages - prop takes a

hourly - no mist bottom of boat

Klumbe muddy from Duke - no visibility, etc

No watch but trip made in 23 hrs?

Once past area of asbestos interest

(past mile to camp) river much

better - good weather: camp up

in old area - ~~at~~ at mouth of

Boeing creek

July 5th Objective - for trip was

to have established a geologic

work ~~formation~~ grid + VLF property

to determine the shear / graphite

zones which occur ~120-300° thru

property thus enabling 1) the

prospector to predict where

other showings might occur

enhancing the reliability of the

property 2) overburden targets for

later evaluation by a company -

drill etc. It was highly recommended

that the grid be established before

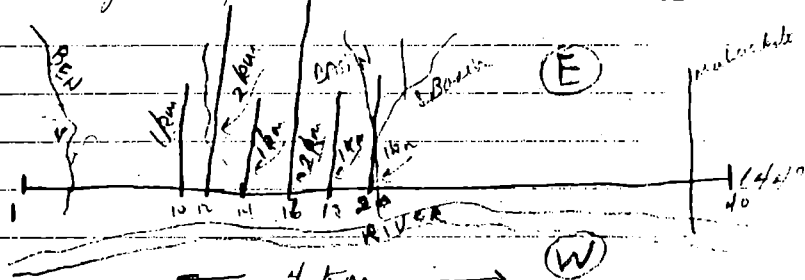
had with operation of geophysical data;

the deciding factor being the EM-16

seaward was being reported in BC

(White Geophysical Assoc.) at time of work.

The following grid was set. NOT TO SCALE



entire baseline w/ cutout/sloak + flagged

lines; Line @ 100m intervals

& station @ 25m along line

Lines are open ended - ~~at~~

Notes on Grid: Grid/VLF survey also

to complete assessment work for summer

due from July 23 - Aug 1; Sept for VLF

assessment on JIB completed but September

on own w/ Noranda visit; Grid then

gridline (1111)

Baseline @ 1400 - surface level ground

→ can serve as level also

cross cutting of structure (N/S running)

will increase the likely hood

that small graphic zone are

detected; the graphic zone in

upper malachite associated w/ the

5g Au/ln is only 1 foot wide, while

graphic zone in lower are >50'

* Line 10 12 14 16 18 20 ~~run~~ run

w/ 12 & 16 to ~2 km

#16 cross claim line @ 1330 m

Problem w/ slope of this claim - esp

near end - this has caused some

discrepancy that will as district show

up later!

* JIB claim line @ ~~325~~ line 33 & 50 E

→ All lines run E of base line so

for. Grid is established so that

if lower lines 1-40 can be run

to west, with the W designation.

→ Malachite cut @ line 33 & 50 v

Any point on grid can be

described by 1) line # (where N-S)

2) meter reading (where N-S)

* July 9 & 10

for east or west of base line

respectively, using the same

physical grid as other measurements

could be used to get a

computer software specifications.

Run transect from JSB #1^{100'} South Head
 mostly JTB claims - creamy dry basin (see photo)
 siliceous + limonite cherts at line (160°)
 lenses of qtz to 1" + in schists; some
 qtz, calc or in coal w/ iron pyrite; also
 massive calc^{110'} w/ qtz veins + limonite staining
 - good amount of limonite, qtz in schist w/ calcite
 + x-cut, schist 10' to 20', strike E-W - part
 w/ 1/2' base (marked) 2" qtz vein white x-cut
 west of the limonite schists - schist exposed
 on right bank for ~ 25 m; 16/41 - structural
 from @ schist outcrop to NW 1/2 SW 1/4;
 along top edge side of qtz vein - siliceous
 alt schist - gneiss like - look to quartzite
 - probably only a few meters thick - metamorphic
 w/ chert + pyrite cubes. now w/ qtz veins
 - all rx range on surface - extent ??
 16/42 - same adjacent to qtz vein
 siliceous alt schists w/ sulfates

Upper reaches of creek road investigated
 further;
 Is part of the reconnaissance
 set out in the Arroyo TOS/1
 Report the practical matter

of the jointing JTB JTB a creek road
 for assessment work is made - 4/13
 was done - 9 lanes MBR strike
 as follows:
 MBR 1-4 on 160° w/ other than
 left diving JSB to JTB and
 covering sulfide qtz showing described
 previous page on dry basin
 MBR 5-9 - ^{1/2} ~~1/2~~ ^{1/2} for Post #1 / MBR
 304 perpendicular (250') across
 blaine river to DAK; the
 added benefit to property is
 two fold, on top of more desirable
 assessment work 1) water is
 on property 2) 'late pool' which
 shows on NTS 1:250,000 is on
 property (when mind it is a jurisdictional
 post.
 MBR 10 is a first hand claim to
 250m to post DAK
 July 29/1 ~~see~~ see basic info on
 July 5/6 - 1.2 km borehole
 ran at base of north (blaine cut) to
 cover assessment on cut at basin geophysics
 work for geophysical stations etc;
 fault zone on NW side much
 closer but much less exposure in
 creek because of BL 160°

L.L. 13
 red alt
 200°
 147°
 RL carb macropore system in
 schist. Dip is 20° or 30°

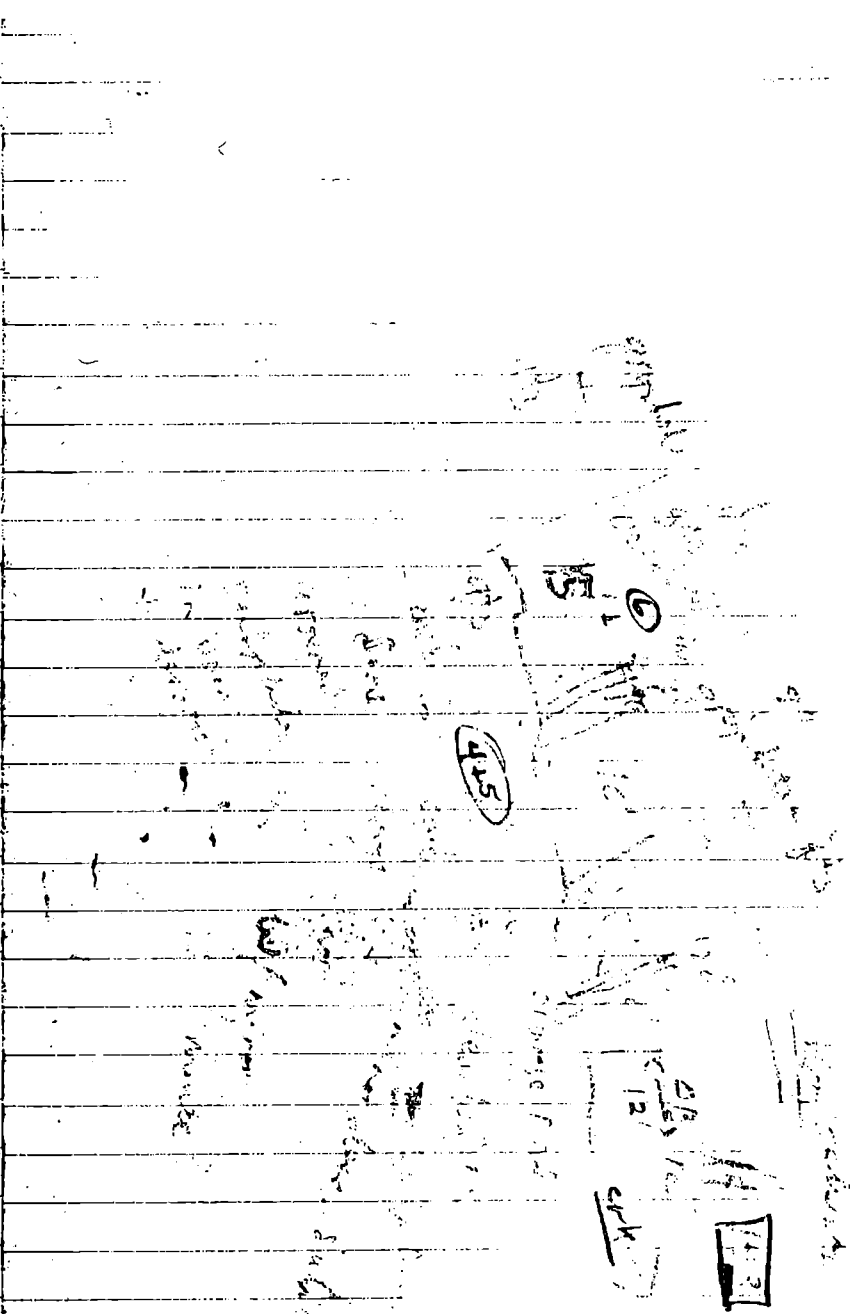
Dip = 20°
 System cut rock
 120-130° vertical
 Dip - vert?

this unit seems to be the
 pure graphite with 2" bed of graphite
 zone still dip under siliceous shale

1G/144 - graphite zone
 RL above graphite/siliceous zone above

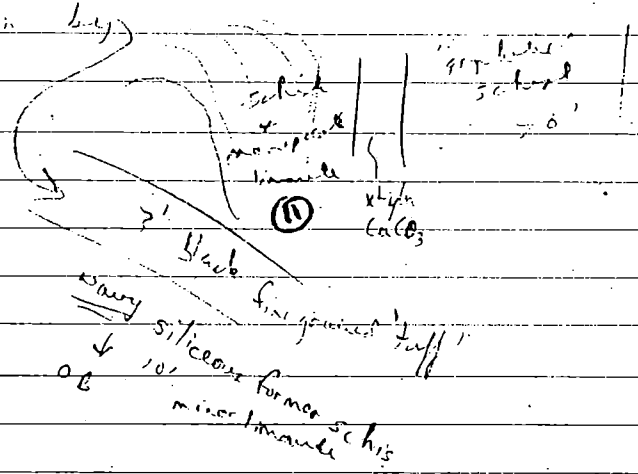
TG/145 - schist
 graphite zone in schist

1G/146 - L.L. limit - red alt schist zone - 2'
 'between' of carb macropore units



July 11 - g. calc. crk (115611)
 near qtz carb. conglomerate just below
 crk confluence to new ign. unit (C)
 strike 290 dip 45 to south
 more of a siliceous flour - grade into
 schist m. edge

16149 - right hand low spot
 161410 - left hand
 just above confluence - vert dip strike 280
 micropelite in limestone schist - 161411



Full exploration camp where crk hits
 valley. 4-5 tent min - cleared area
 of 20 acres - airstrip ??? Core shed
 w/ core - one 4' core of calcite -
 now decomposed to powder - No
 qtz carb - camp apparently set up
 in 1973 - only drill here

logable was 23-2
 was drill hole 2 in 1973 -
 several m of "jade" - sample horizon

Project was obviously looking for calcite
 - in 73 just started to take off
 this could be also that is left of
 low hill/stone left. much resist / jade /
 serpentine / ultra mafic float in creek
 not to mention mag high - no valley
 extending to ridges.

My objective here is to locate quartzite
 shears + qtz carb micropelite to
 try + tie in other ultra mafic
 body to the TOSK properties. No
 ultra bodies are on the property
 yet the leucostibite ^{was} are CO₂
 alteration products of ul rx. In
 addition the mag high on map is
 1250,000 grid may sit top a
 epinite 'band' that is to the
 NW. It assumes a NW trending
 structure on the TOSK property.
 Several or better an hydrothermal local
 me to believe there is a connection -
 if so the potential for

considerable mineral showings elsewhere
the very high of TOSH 15 miles is good.
In the creek (A) between the two
areas (Finnish) the gneiss geochron
has high anomalous Sb - as in
the TOSH claims.

Considerable massive "actinolite"
quadrant ix (greenish jadeite to fibrous
hard green to actual actinolite) is
found in float on 'actinolite creek' or
along ridge - (A) - quite concentrated
overlain by $CaCO_3$ on the ridge top.
(NW strike steep N dip) + some basal
schists at (B) - 10' (exposed)
glophite zone - strike 130° - beautiful.

Area has potential - w/ qtz/cor/b noriponite
(though all qtz/cor/b noriponite was
at quite right - too schistose or too
siliceous to be identical to
Nalchite creek on TOSH claims) did
resemble to degree qtz/cor/b on Dry
Barr (July 8) also 'jade' interesting &
of course the glophite zone w/ the
 130° strike - very similar to
TOSH's. Much line cutting done - need
to check gneiss assessment rpts -
locate hole #2-72 or any other info

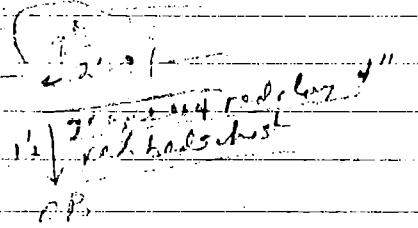
June 12, 1943, LINE 2, 4, 6, 8 W off
Boreline - no rock cores found
hasn't been checked before
~~Area~~ Line @ 240° - 800m
stations @ 25m - flogged along
marked w/ 1" x 1" nails
All lines along on west side of
boreline. Area has gneiss (low
also float of sphalerite + sulfide
(pyrite) in the gneiss zones -
Overburden 99% of area - need
geophysics - geochron less than
encouraging; some Au (below) but
probably ??? glacial (found also
where the line dips valley)
This claim 'slippage' caused line
to be "considerably" longer
13.

13 June - prospect 120' strike of P...
~ 75m up from 1943 - glophite
stalychite exposed - 4' x 1' high.
Potentially high in folded to high gneiss
on 4' ; w/ red clay - all
= well-sorted schists - gneiss
siliceous of some white qtz -
1.2" or more plus actual + some w/
* 5% glophite

061410 - thin siliceous schists - to 2' wide

Dip 20° N

Strike 240°



061411 - 20' red schist zone for
500' sch - alt schist zone for
limestone schist to 'almost gtz schist'
alt orange zone. strikes @ 240°

Dip 45° N - sample siliceous w/
5-10% sulphide + orange schist

June 14 - up Kilmore on boat good
for 20 miles - then major

break - muddy - River bank (dipped
siliceous schist w/ 2' dip - still
high) line came up 3000'

perhaps - note that hollow soil
fields - under a pack to heavy -
3 canisters (6 parts) seen on river

- to down? - got to be a
mine past that the 1000' have
found cells

061412 - alt red schist from P.L.

061413 - siliceous schist w/ graphite & sulphide
adj to 061412

061414 - L.L. graphite/Qtz in alt zone
one of two between upper & lower

zone (#124 #4) - sulfides, pure graphite
limestone layers (some Qtz) red schist

061415 - sulfide/Qtz in bedrock graphite
on upper contact w/ 15' horizontal

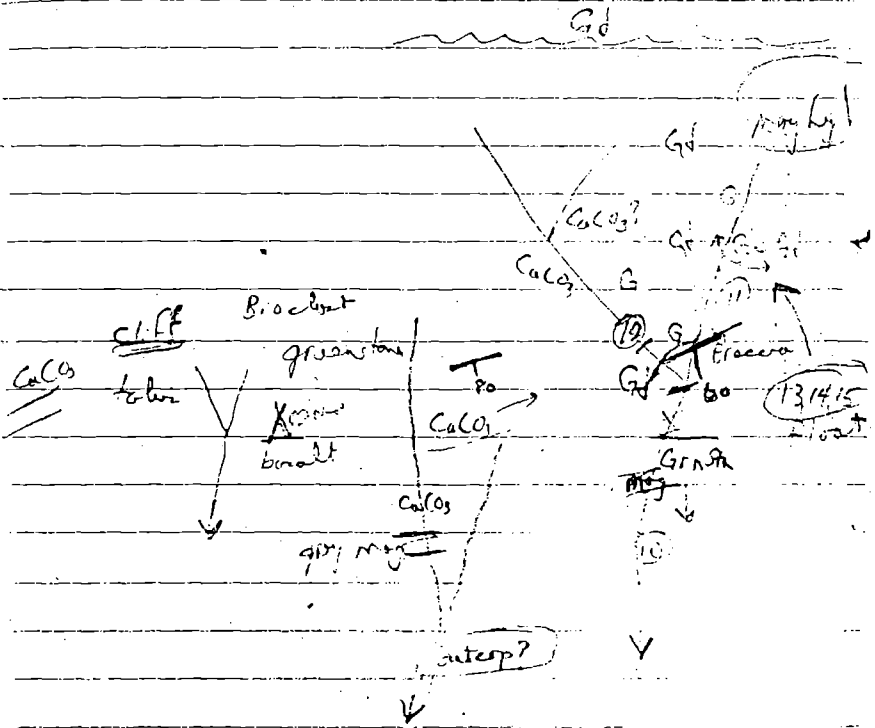
zone - L.L. (see previous notes)

061416 - 13' (3m) channel sample
near - from #15 down crack - not humid

061417 - grab of grey grey Qtz schist
w/ 10% sulphide - vein to the west

to contact (Monite etc - hemispherical)

061418 - 2' channel of alt red
schists on bedrock contact
graphite at contact



N.T.S. 115F/15

PROPERTY SNOW

DATE 6/25/91

ROCK SAMPLE REPORT

PROJECT BEROHL

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23751	1F150; limonite brownish red garnet cluster, garnet variable size to 1/2"	0		Grab									RB ↓
23752													
23752	1F151 - alt greenstone (microgrn andesite?) limonite; rusty on fractures	< 1		f/t									
23753	15152 or 123752 but from outcrop - less alt. andesite	< 5	pyrite pyrrhotite										
23754	1F1593 silicified limonite pink to tan "banded" rock w/ qtz veils to 1cm	1	pyrite										
23755	1F1504 DRY Gully / East Camp - STRMSSED												
23756	1F155 - magnetite very fine grain slab grey rx w/ disseminated sulfides, + banded skarn micrology ("brown pre garnet green") - some < 1cm qtz veins												
23757	1F156 - orange colored ^{multiple breccia} limonite of qtz stringers, copper carbonates, chalc + pyrite	5-10%	chalc pyrite	grab									

294

N.T.S. 115F/15

PROPERTY SNOW

DATE June 25, 91

ROCK SAMPLE REPORT

PROJECT Berdahl

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	ANALYSIS								SAMPLED BY	
					G	A	G	A	G	A	G	A		G
23758	1F157 - Skarn w/ massive sulfide; garnet - granodiorite matrix - limonite / rusty	> 10%	chalcopyrite											IRB ↓
23759	Soil - rusty to yellow outc. above skarn 1F158	Ø												
23760	1F159 limonite thru out w/ magnetite magnetite	Ø												
23761	1F1510 STRMSSED	Ø												
23762	1F1511 STRMSSED	Ø												
23763	1F1512 STRMSSED	Ø												
23764	1F1513 1F1515 - magnetite x 1/2 1/2" w/ minor limonite	Ø												
123765	1F1516 - (Fusion 99 c-h) STRMSSED	Ø												
123766	1F1517 STRMSSED - Slide	Ø												
123767	1F1518 1 south edge STRMSSED	Ø												
123768	1F1519 STRMSSED - core 4 north	Ø												

3-84

PROPERTY SNOW

N.T.S. 115F15

DATE June 25, 91

ROCK SAMPLE REPORT

PROJECT: BERDAHL

AMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
23769	IF1520 - STRM SED - 1/2 in @ Base	0													
23770	IF1522 - Sulfidated metabasites to ten grains or more (minor magnetite) w/ sulfide dr. + 1-2 mm veins	5-10%	pyrrhotite pyrite												
123771	IF1523 STRM SED top left limit	0													
23772	IF1524 STRM SED - lower left limit	0													
123773	IF1525 - ^{white} qtz vein thru greenstone 'breccia' w/ pods massive sulfides - minor Cu Carb. + minor limonite	1-5%		qtz fill											
123774	IF1526 - STRM SED														
123775	IF1527 - ^{white} qtz vein w/ sulfides - pods + disseminated minor Cu. thru greenstone	15%	pyrrhotite chalcopyrite												
123776															
44926	IF1528 - STRM SED - 1 below Boundary														
44927	IF1529 - STRM SED Boundary														

4 of 4

NORANDA EXPLORATION COMPANY, LIMITED

N.T.S. 115 F/15

PROPERTY SNOW

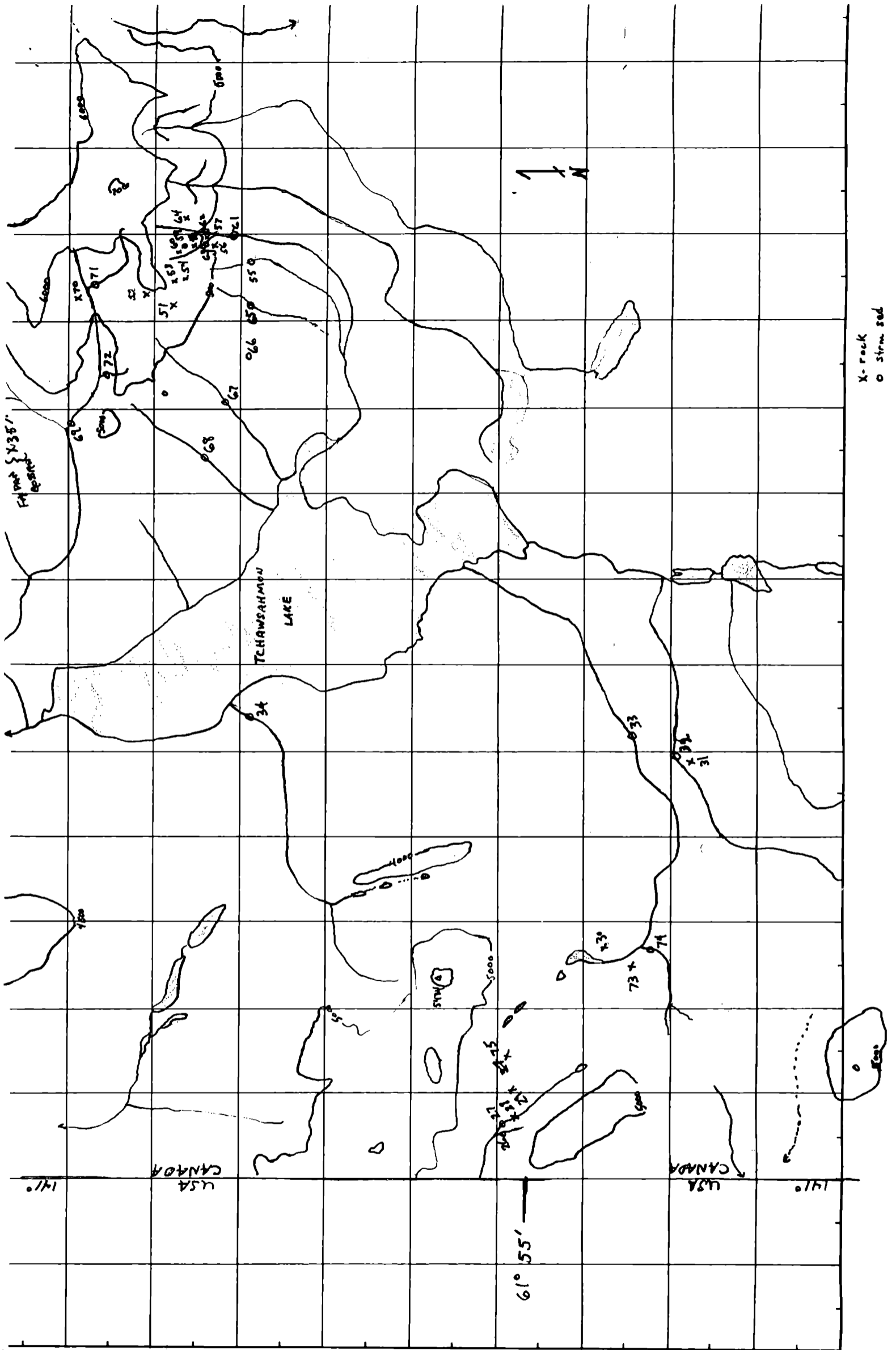
DATE June 25, 91

ROCK SAMPLE REPORT

PROJECT Berdahl

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
44928	IF1530 - siliceous layered greenstone w/ sulfides disseminated thru out + veins rusty on fractures	25+	Pyrite	grab											
44929	IF1531 - rusty green stone - limonite w/ sulfides in 'veins' - 1mm+	5%		fl+											
44930	IF1532 IF1532 blue green rock frag yellow soil (mariposite?, malachite?, Ni blue?) w/ minor limonite or qtz comb														
44931	IF1534 - dirty gray green aphanitic rx w/ minor brown sulfide - rusty limonite on fractures + yellow soil	1-2%		grab											
44932	IF1533 - STRMSSED Red Rock Crk														
44933	IF1535 - STRMSSED DROP CRK low														
44934	IF1536 - STRMSSED Tent LRK														
44935	IF1537 - black/green aphanitic rx w/ major sulfide / limonite veinlet 5mm	20%+	pyrite chalc	fl+											

G = GEOCHEM A = ASSAY



No. of SAMPLES 34 35 SAMPLE No's. 123751 - 75 + 44926 - 34

PROJECT SNOW DATES SAMPLED 6/3/91 to 6/21/91 COLLECTORS R BERDAHL

REMARKS _____

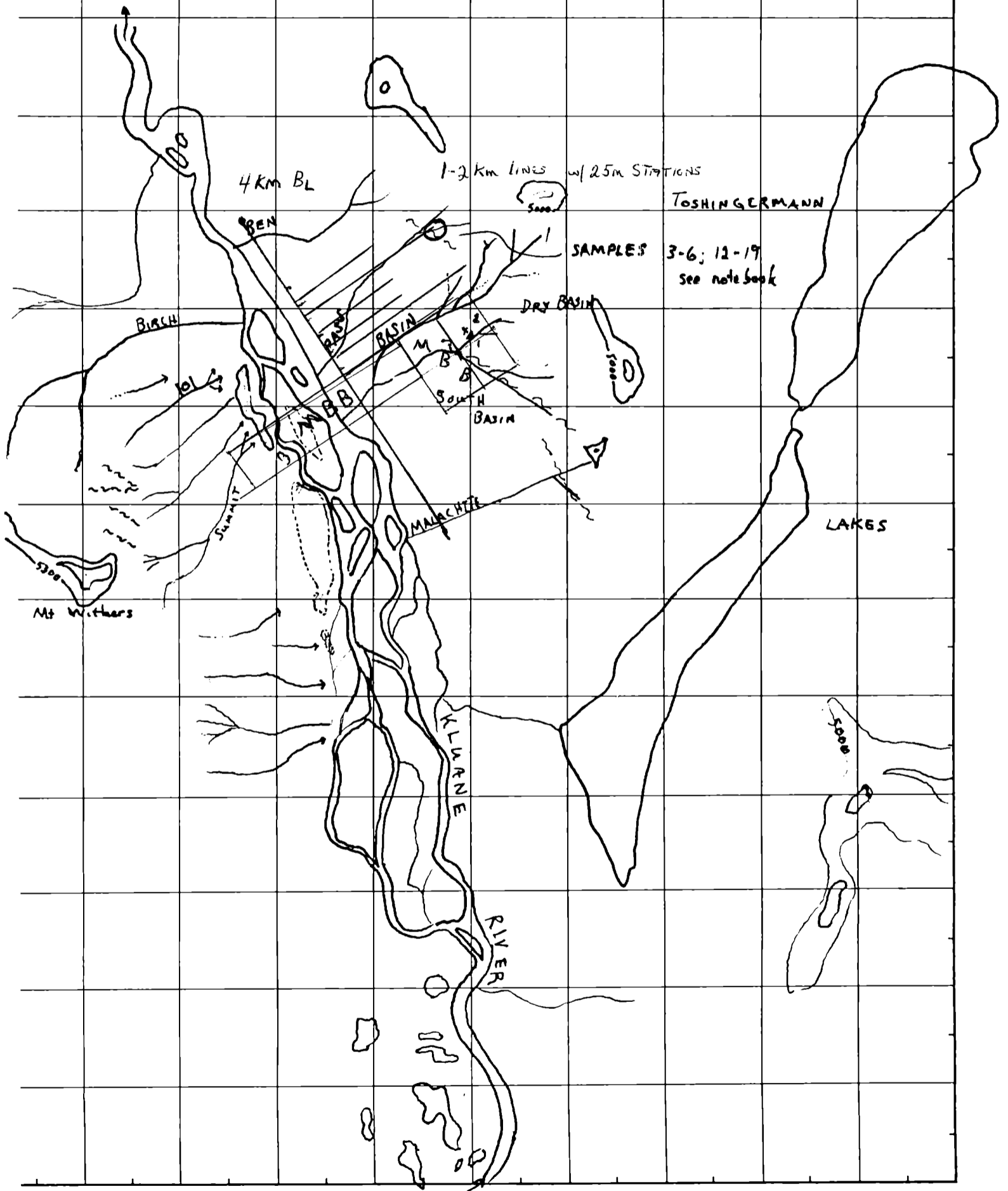
SCALE 1:50,000 N.T.S. No. 115 F/15

G.C.I. No. 58701

PROJECT 91 MIP
RS BERDAHL



Δ - STRM SED
x - ROCK



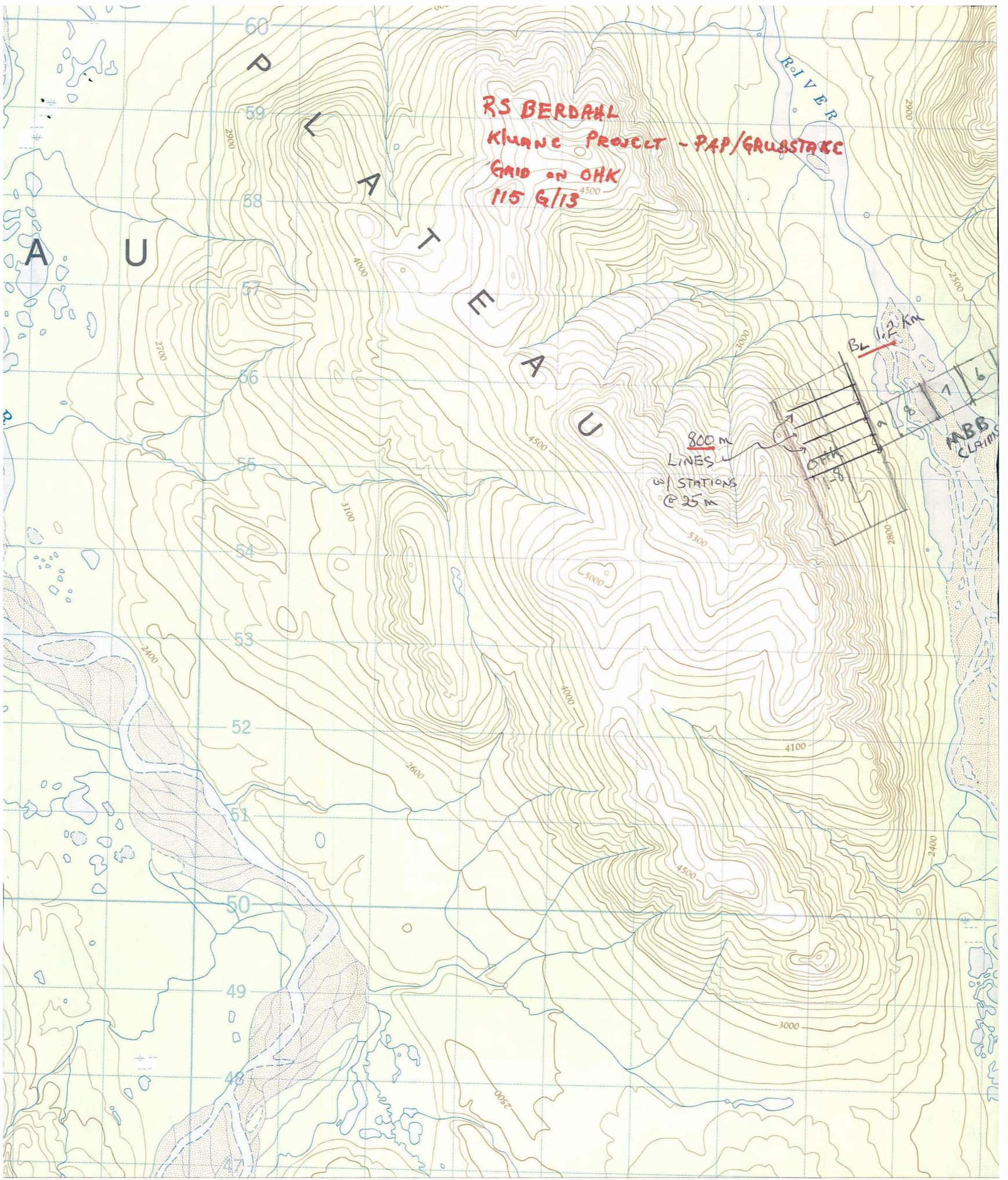
No. of SAMPLES _____ SAMPLE No's. _____

PROJECT ~~90~~ 91 DATES SAMPLED ____/____/____ to ____/____/____ COLLECTORS BERDAHL

REMARKS _____

SCALE 1:50,000 N.T.S. No. 115 G/14-13

G.C.I. No. 52414



RS BERDAHL
 Kluane Project - PAP/GRAUSTAKE
 GRID on OHK
 115 G/13

800 m
 LINES
 w/ STATIONS
 @ 25 m

ABB CLAIMS

68 69 70 40' 71 72 73 74 35' 76 77 578000m. E. 139

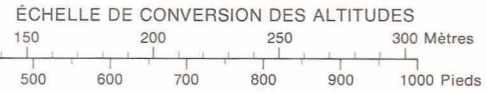
115 G/13

K
 UKON

Information concerning bench marks and horizontal survey monuments can be obtained from Geodetic Survey, Surveys and Mapping Branch, Ottawa.

Pour tout renseignement concernant les repères et bornes altimétriques, s'adresser aux levés géodésiques, Direction des levés et de la cartographie, Ottawa.

Établie par la DIRECTION DES LEVÉS ET DE LA PHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES SOURCES. Mise à jour à l'aide de photographies aériennes, 1979. Vérification des ouvrages en 1981. Publiée en 1983.



Ces cartes sont en vente au Bureau des Cartes du Canada, ministère de l'Énergie, des Mines et des Ressources, Ottawa ou chez le vendeur le plus près.

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3 Miles
 4000 Mètres

CONTOUR INTERVAL 100 FEET
 Elevations in Feet above Mean Sea Level
 North American Datum 1927
 Transverse Mercator Projection

ÉQUIDISTANCE DES COURBES 100 PIEDS
 Altitudes en pieds
 Système de référence géodésique nord-américain, 1927
 Projection transverse de Mercator

Summary of Tombstone project

Aug 18, 91

116B107

The Tombstone project - an amendment to the PTP project 91 to take advantage of a geochem release - uncovered mineralization in several forms.

Sulfides to 50% of the total rock (in float) were discovered in two areas. These rocks seem to be associated with a Diorite (I'd say Andesite) shale contact. These two rock types contact several times on the newly staked 'wall' property and are marked by obvious gossans or rusty rocks. The "moonlander" skarn was also examined but not staked. Uranium in a yellow secondary compound was evident through out the area. In addition one creek resembled the creeks in the Lacey component with ferretes associated with a red stained creek then changing to a white stained creek after emerging from a talus slope.

Because of the proximity to the Main, and the obvious metal content Noranda has again agreed to pick up all assay costs on rocks/soils/stream sed.

Values have not been received as of yet.

PAP Budget - Tombstone component

vehicle - Dawson wheel tra @ .26/km (536 x 2)	278 ⁷²
Transportation - Trans North	1348 ⁸³
per diem 1 x 38 x 6	228 ¹⁸
maps - geology, geomog, geochem release - Ogilvie/Dawson	54 ⁰⁰
Assays (Niranda)	0
misc - flagging tops etc	22 ⁰⁰
	<hr/>
	1,932 ¹⁸

	10000
	- 8650
	<hr/>
	1350
Remaining from PAP	1,350

Difference <1932¹⁸>

+ 1350

<582¹⁸> to be picked up
by Grubstake

According to my records PAP is now fully prescribed.

Tom bstone project

ADA

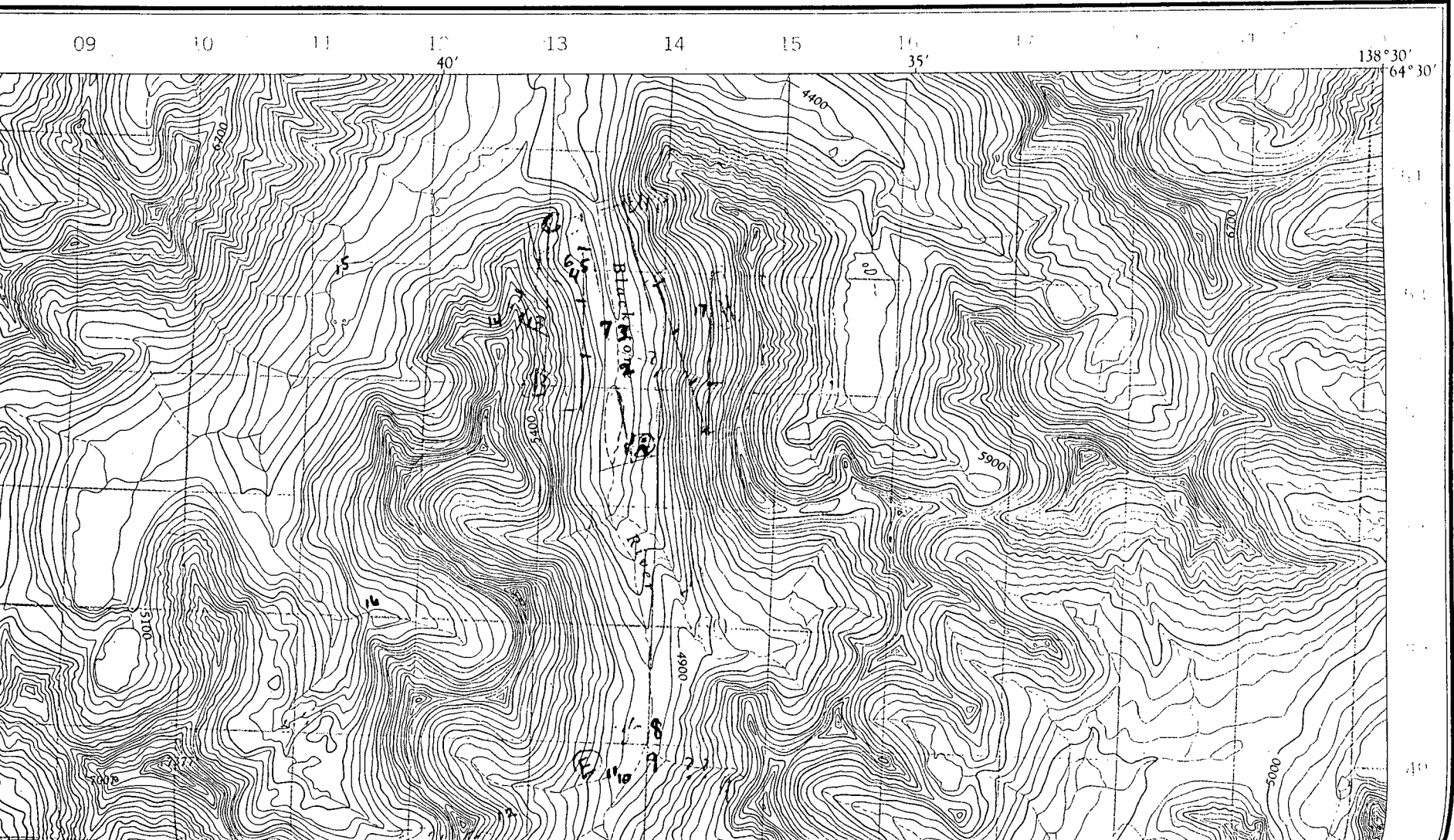
B/10)

Refer to this map as:	116B.7 EDITION 1 ASE SERIES A 722
--------------------------	---

CARTE PROVISOIRE

EDITION 1

116B/7



TOMBSTONE Berdall

Aug 8-9, 1911 - Obtain geochron carbon,
 formulates plan off to Dawson,
 & possibilities. 1) VMS - formational local
 metal properties - probably, in north
 of (Algaline country) of release -
 by Selwyn Basin or 2) gold
 properties within stream (Tombstone)
 or properties in top of world?? or
 Antarctic water - boundary. One of
 each type considered. Good Pb, Zn, Cu
 # on ridge north of coal creek - but
 min field shows much activity
 - drilling, geochron etc by the Big Bear
 metal boys in this general area - at least
 3 diff. companies. Also for from Dawson
 (Halverson) Good Au (to 20 ppb) near
 Noranda Main Skarn (300,000 lbs of 2 opt Au) -
 -40 from Dawson - near enough to other
 properties that Noranda at least may
 go for it if they haven't yet.
 Camp at south end of Lake - right hand
 of headwaters. Black stone - Arctic Drainage
 @ A - massive sulfide pit in range
 rusty rx - - host rx stems to top
 fine grained "shale" w/ biotite ?? 1871
 Chloranite separates abundant w/ talc

as well: Red Oxide shales - some w/
 considerable amount of some metal.
 Several rock types in valley - Red Oxide,
 A. syenite, quartzite & various thin of
 - quite common w/ most rock having
 vertical dip (incredible scenery) & strike
 of granite cutting valley - some
 more horizontal rx (shale - mostly) as river
 cuts across the east of valley
 1872 - Strm sed - R. Limit below A.
 - no real stream - too vertical - but
 water flowing, small talc
 1873 - right limit side of creek turns
 milky white (as in Laramie country)
 again no natural creek drainage
 but obvious drainage from somewhere.
 sample in under water near route - only
 see fine white, halby full of geochron
 1874 - ^{20"} fine grain gray rx - rusty w/
 metallic pods pyrite shales - & very fine
 grain sulfide lenses - 2-3 mm
 1875 - possible site of govt 120 ppb
 sample Strm sed - no real creek
 - maybe they sampled blackstone ?? Yes
 1876 - massive sulfide - red fine
 grain - gray - no chalcocite

TOMBSTONE Bedfall

1B74-6 ~~see~~ are related to red mud, 'shale' only to syenite + quartzite (mixed) on a NE striking 50° Dip (SE?) at valley end - syenite outcrop at ridge top looks like "redbed" (fine bottom. 2 strange beds - 1 too yellow)

under hill, a single peep. horizontal a few feet in front between rubric/spores in size. One the shale or clastic material. flycatcher? tail finitator?

Can't believe no evidence of primary staking - only 40 miles from Tombstone. + very obvious target. Beautiful country as if one has been given a sneak preview of heaven. One good fall. Have lost fuel bottle somewhere. no wool anywhere - storks have done in lower valley. Great blue crow + ^{crane} ~~heron~~ ^{heron} ~~heron~~ ^{heron} ~~heron~~.

Aug 10, - YA 9535 - Archer Cather - 22th March 8 Sept 76 on limestone raft at head-left hand of Blackstone. some skarn mineralization - limestone patch on limestone / "eye to" contact - skarn @ G has been claimed @ least 3 times - K Hudson latest. nice banded garnet - some

only but no copper mineralization seen. @ (E) secondary uranium compounds coat shale + altered granitic rock (1B711)

1B710 - stem end of creek showing uranium ore. several clean points + survey stakes lying at mouth of creek.

1B712 - whitish alt granitic rock between stem & granite orb (E) w/ veins of biotite or minor sulphide (18) rusty op. fractures

1B717 - stem end L. limit below gossanous talus w/ uranium stain on cliff (B)

1B718 - Blackstone proper stem end

1B719 - R. limit "drainage" of gossanous talus (E) Drainage is not continuous - also @ (D) has no real outlet @ all though drains 3+ km².

Limestone @ G seems very limited - no Au value assoc w/ skarn in reports. So we do not believe the geochem is related to it.

Aug 11 - investigate area ^{west} of camp
along diorite / shale contacts - NE/SW
strike. @ 1B713 - a ferruginous
in float - along 100m x 200m
plug of andrite. or at the
the andrite (mapped diorite?)
have purple chlorite + disseminated
sulfide thru out - 1-2% - the
adjacent shales are rusty to very
rusty all along strike. @
1B714 - rusty shale w/ 4 sulfide
- gossanous area on left
limit of the Blackstone is very
orange - seems to ultramylonite to
be of value - possibly Au
values (also ^{27%} in this branch of
Blackstone - to 22 Au) are derived
from small veins (see sample #1
4, 6 etc.) assoc w/ contacts
w/ any economic tonnage -
Gossans are everywhere +
obvious, Noranda Main property
300,000 lbs @ .2 Au / lb Cu etc is
just to west - Yet ~~to~~ appears
to be little exploration (flogging)

TOMBSTONE Berdoff

Inventory lines, ponds, in this
area except @ 'limestone raft'.
1B715 - stream bed draining
(no single drainage) gossanous
talus on 'kilt' mtn between
Morn + Blackstone - just to
try to ascertain Au source -
Country incredibly rugged +
beautiful - 1st rate - easy to
walk valleys but nearly
impossible to cross ridges -
long poleward slides - esp in
granite areas walls 100's
of feet vertical - 1 to 1.5 km wide
etc. -

1B716 - very fine grey / black ox
NE strike vert dip - 5' wide
10-15% poor sulphides (no top
taken or fly left - to pretty - could
be silver ???
Upper valley has some small CaCO₃
dikes - vertical in shale - can't see
granite / CaCO₃ contacts - much -
gossan / rust - very steep
5 sharp - 1 dead 7 ft old mine -

TOMBSTONE
Berdeff

Aug 12-13- ran line thru contact
area in Right Hunt valley,
on high on ridge as possible.
Due to rain / weather - esp east
side - progress slow -

@ H on impure ferricrete that
turns cherty while (crack bottom)
when draining into Blackstone at
base of talus slope 1B717
is ferricrete stem seal.

1 large carbonaceous body
 Hunt log @ H₃ 7 claims
 started. wall. Chopper arrived
 early out to Paurson to
 log claims 13₂ to Mayo
 mining recording to research
 19 claims to Whitaker for
 rocks to Nevada - they
 accept for 12th right refusal

10/2

PROPERTY WALL TOMBSTONE

N.T.S. 11687

DATE Aug 17, 91

ROCK SAMPLE REPORT

PROJECT BERDAHL - Yukon GEN

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G	A	G	A	G	A	G	A	G	A	SAMPLED BY
371) 14936	Diorite w/ 50% sulphide dissem. thru out; rusty of fracture	50%	pyr. par. cp.	flt.											
14937 1874)	siliceous shales w/ very rusty fractures + 'pods' of sulphide to 1/2"²	5%	pyrite	grb											
14938 B76)	Diorite similar to 14936 above w/ fine grain disseminated sulphide - very rusty on fract/ flt from Diorite (Andesite?) shale contact	25%	pyrite ?	grb											
14939 B711)	Alt syenite? (granitic rx) or shales w/ yellow coating on granitic shale contact - suspected Uranite or secondary minerals	∅													
14940 B712)	whitish alt granitic w/ veins of biotite + minor sulphide - very rusty on fractures	1%													

2 of 2

TOMBSTONE

PROPERTY WALL

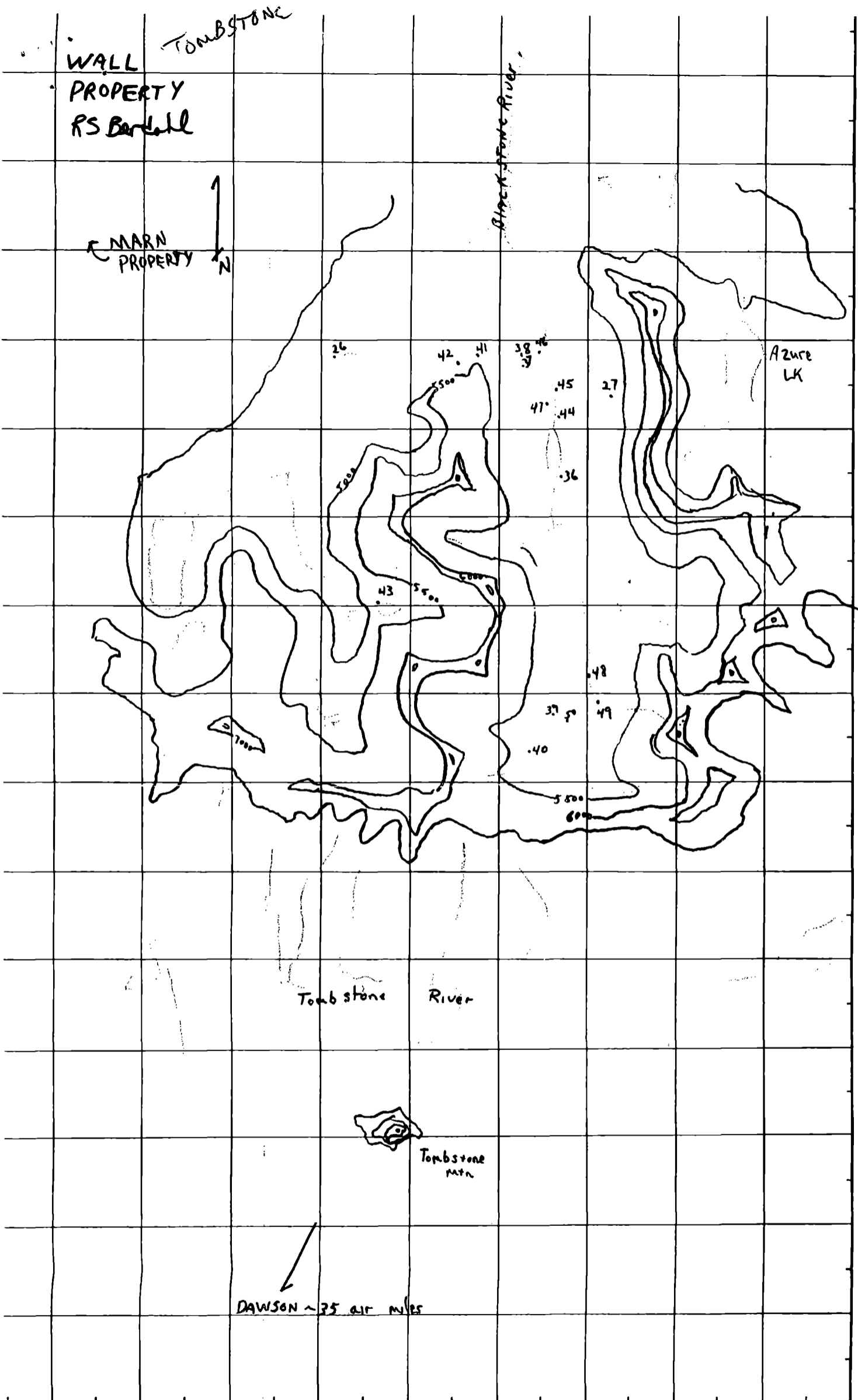
N.T.S. 116.B7

DATE Aug 17, 91

ROCK SAMPLE REPORT

PROJECT Berchell - Yukon Gen

SAMPLE NO.	LOCATION & DESCRIPTION	% SULPHIDES	TYPE	WIDTH	G <input type="checkbox"/> A <input type="checkbox"/>								SAMPLED BY	
4941 B713)	ferricrete	0	Grb →											
4942 B714)	shale on diorite (Andrite) / shale contact - rusty on fract trace sulfide	TR	GAB →											
4943 B716)	very fine grained grey-black rock - no rep - 10-	10-12%	S&P pyrit? sulf?											
<p>Samples 1B72, 3, 5, 7-10, 15, 17 STRM SEDS 44944 - 50 respectively (#15 4/0 0 NORX #) #17 " " " "</p>														
<p>44926 = 1B715 44927 = 1B717</p>														
<p>Rocks = 8 STRMSEDS = 9 <hr/>N = 17</p>														



No. of SAMPLES 17 SAMPLE No's. 44926-7 ; 44936-50

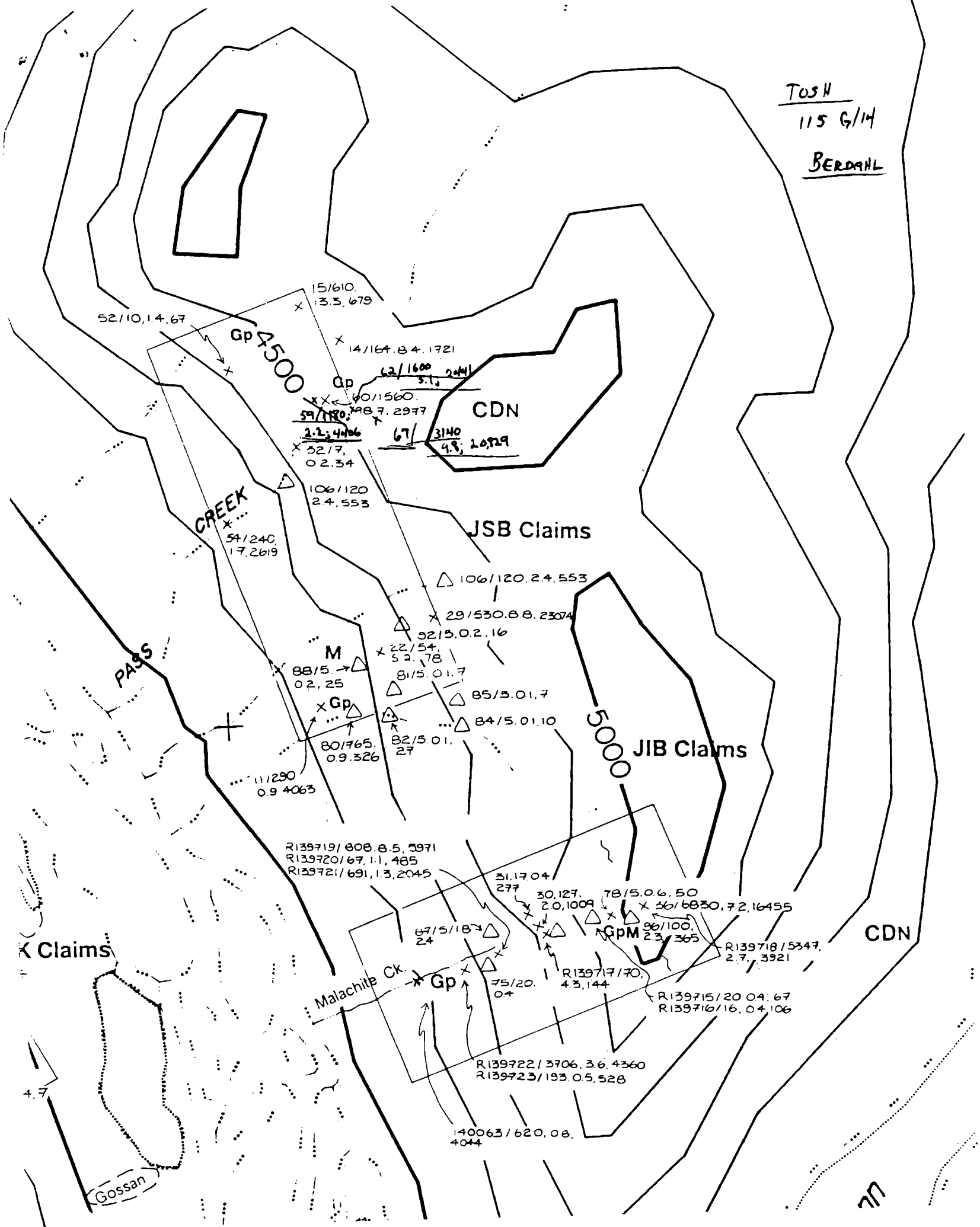
PROJECT X_h Gen. DATES SAMPLED 8, 8, 11 to 8, 13, 91 COLLECTORS R Barkahl

REMARKS _____

SCALE 1:50,000 N.T.S. No. 116 B7

G.C.I. No. 52417

TOSH
115 G/14
BERDAHL



TOSH PROJECT

J. DUKE

TOSH

#	Rx Descr.	% sulphides	Bedrock
113056 (1G144)	light grey 'qtz carb' w/ micropelite & ^{very} fine grained sulphides - orange on surface		3%
113057 (1G1411)	siliceous alt orange/green qtz carb micropelite schist graphite green on foliations (asb crk)		
113058 (1G1416)	13' channel sample thru red alt schist decomposed into w/ qtz carb 120 crk		
113059 (1G1419)	red limonitic schist w/ qtz & sulphides - pyrite fine grad		5% +
113060 1G146	2' red decomposed schist		
113061 (1G1417)	grey/green qtz carb micropelite 120 crk, sulphides dissem in veinlets		>5%

NOREX

June 16, 91.

TOSH

Rx / STRAM SEEDS
#15

TASH PROJECT

J. DUKE Berdahl

113051
(ΦG1413)

Rx. Descrip % sulphides
siliceous graphitic
schists w/ minor limonite
+ sulphide - pyrite (120 CRK)
pyrite 3%

113052
(ΦG1414)

limonitic 'altered' chlorite
~~graphitic~~ pyrite 5%
schists w/ sulphides in
~~bed~~ laminations (120 CRK)

113053
(ΦG1415)

graphite w/ qtz + CO₂ stringers 5%
1-2 mm; + disseminated
sulphides (120 CRK)

113054
(ΦG142)

Siliceous tan fine grain rx
(low grade qtz carb-schist) w/ 1/4" calcite 1-2%
veins + pyrite xtals in patches
+ "veinlettes" (to 1/8") (DRY BASIN)

113055
(ΦG145)

Siliceous chlorite schists
w/ trace sulphide (Dry Basin)
+ limonite + noriposite

TSSH

TSSH

Berdoff

113062
(18143)

- soil

1G143 - ~~dry basin~~

(1G148)
113063

2'

alt zone on micropelite /
graphite contact

113064
(1G141)

STRM
SED

Dry Basin

113065
(1G149)

STRM SED

right limit asb crk

113066
(1G1410)

STRM SED

left limit asb crk

113067
(1G1412)

decomposed schist w/ limonite
in former foliations 120 crk

5 - SOILS - 5
Rf - 13

N = 18



GEOCHEMICAL ANALYSIS CERTIFICATE

Tosq (7D)

Yukon General



Noranda Exploration Co. Ltd. PROJECT 9108-014 312 File # 91-3134 Page 1

1050 Davie St., Vancouver BC V6E 1M4

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*	Hg
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppb	ppb
44935	1	19184	2	291	29.4	56	71	259	25.29	59	5	3	6	31	4.6	24	12	131	.46	.031	308	21	.29	18	.13	3	1.00	.02	.04	1	2260	25
* 113051	3	172	7	47	1.6	36	9	275	3.11	1898	5	ND	7	42	.3	26	3	16	.94	.230	18	12	.16	58	.01	9	.43	.01	.23	1	310	30
* 113052	1	105	13	79	3.1	44	18	473	5.91	2763	5	ND	6	81	.7	16	2	20	.73	.123	16	33	.26	81	.01	8	.72	.01	.26	1	530	15
* 113053	1	42	25	12	2.6	106	12	3707	6.95	1004	5	ND	1	99	1.2	20	2	25	3.23	.137	2	15	1.31	35	.01	5	.29	.01	.17	1	340	10
113054	1	124	9	113	.8	55	32	1635	8.41	492	5	ND	1	372	2.4	13	2	62	9.81	.121	5	28	1.17	41	.01	2	1.24	.01	.24	1	180	25
* 113055	1	57	7	66	1.1	41	14	823	3.78	1809	5	ND	11	143	.6	10	2	5	3.20	.033	11	10	.96	96	.01	7	.40	.01	.28	1	170	10
* 113056	1	94	3	53	3.6	104	29	1436	6.22	2282	5	ND	1	436	1.6	23	2	23	9.46	.071	4	41	3.60	85	.01	8	.44	.01	.29	1	290	40
113057	1	19	8	18	.4	283	24	1304	4.08	50	5	ND	1	442	.9	6	2	10	9.03	.014	2	307	4.12	137	.01	2	.44	.01	.10	1	160	10
* 113058	1	92	12	111	3.8	99	29	2097	5.63	1936	5	ND	11	290	1.5	34	2	28	4.97	.204	14	40	1.87	124	.01	9	.69	.01	.33	1	350	20
* 113059	1	74	6	76	2.2	45	29	1098	6.68	4406	5	2	1	327	1.4	36	2	20	6.59	.089	4	13	2.64	64	.01	8	.46	.01	.28	1	1180	80
113060	1	105	12	89	5.6	83	35	2295	7.61	2741	5	ND	2	206	1.8	45	2	25	4.26	.134	5	25	1.65	66	.01	8	.71	.01	.36	1	370	25
* 113061	1	202	15	206	4.9	203	46	2291	9.00	2659	5	ND	2	295	2.4	58	2	30	7.62	.177	5	71	2.83	50	.01	7	.51	.01	.31	1	320	25
* 113063	1	108	8	130	5.3	124	38	2260	7.90	4394	5	ND	1	296	1.9	49	2	24	5.35	.101	6	22	2.02	208	.01	7	.51	.01	.28	1	560	25
STANDARD C/AU-R	17	59	36	133	7.2	73	33	1073	4.04	41	18	6	39	52	18.5	15	18	57	.49	.092	38	60	.87	182	.09	32	1.98	.06	.16	13	480	1400

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB - SAMPLE TYPE: P1 ROCK P2 SOIL P3 SILT AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. HG ANALYSIS BY FLAMELESS AA.

DATE RECEIVED: AUG 2 1991

DATE REPORT MAILED: Aug 9/91

SIGNED BY: C. Leong, D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

* samples from '120 crk' (L. Limit trib of Pass Crk)

TOSH PROJECT

ISB CLAIMS 115 G-14

RS Berdahl

TASH Berdahl



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
113064	1	32	10	102	.4	48	17	414	3.47	69	5	ND	4	160	.6	2	2	53	2.48	.074	20	54	1.02	96	.15	4	1.74	.04	.23	1	3.6	20
113065	1	38	6	81	.3	73	15	440	2.99	16	5	ND	3	87	.2	2	2	51	3.11	.096	15	73	1.28	151	.13	5	1.29	.04	.08	1	3.7	15
113066	1	49	11	213	.5	82	16	597	3.16	20	5	ND	2	104	1.1	2	2	39	4.58	.074	16	46	1.06	174	.08	6	1.31	.03	.07	1	31.2	75



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb	Hg ppb
* 13062	1	143	89	369	5.1	165	110	4420	25.52	2441	5	ND	2	102	2.2	2	2	38	1.89	.079	12	17	.93	92	.01	2	1.22	.01	.13	1	1600.0	55
* 13067	4	118	50	310	9.8	65	31	867	19.08	20829	5	3	13	85	3.0	49	2	13	.66	.081	21	4	.15	160	.01	2	.29	.01	.09	1	3140.0	10

* - samples from '120 crk' (L. Limit trib of Pass Crk)

TASH PROJECT
 JSB CLAIMS - 115 G-14
 B. Berdahl

August 6, 1991

Summary of Lansing Project 105N111

The Lansing Project went exceedingly well. Several mineralized / oxidized zones were discovered. Six of these were staked and together are referred to as the Aztec Property:

JANE - 4 claims covering a low pH creek with minerals leaching into and turning the creek colors - white to red to orange

CANDY - 4 claims covering a valley oxidized / breccia zone.

CARIBOU - 4 claims covering a 5m x 3m 'kill zone' consisting of heavily oxidized altered zone.

CAN 2 claims covering a 20m x 50m 'kill zone' w/ oxidized and brecciated rocks

FLOWER 4 claims covering a limonitic breccia zone and a creek leaching red/orange from a low pH mineralized zone.

RED 1 claim covering several limonitic brecciated zones and a colored (red) creek from leached minerals.

Push geo. down up Lake for pit
up to 1927 creek drive into Stewart
Lake (in Canadian - east - (100 or apart)
down into Hess via floor.

Push to Nevada or wherever
reportedly started 2-400 claims on
Lucky sheet - probably between
Hess & Fido

Area has great potential with
Low pH (4/low to values) highest Cu
on sheet (Candy) highest Yb;

7/8 samples are $\geq 95\%$ of or Au
of all heavy stuff. 7/8 for Mo
& Sb $\geq 95\%$, highest Fluorine
H₂O in sheet ??;

3203 + 3205 plotted wrong on grid
geochron scheme; # 3203, 3205 in correct way.

1N1154 - stream sed on "milk creek"
the white bottom sediment is like the
scum of rotten milk - yet it hardens
(when dry) + forms shale "conglomerate".
Wish at least a paper. Taste is
sort of 'sulfurous'. @ 1N1155 - exposure

of shales dip 30 NW with intermingled
heavily laminated + "at. thos" (washed out)
qtz - qtz veins also extend out into
shales. Qtz seems at one point to
be a yellow lava. Sample 1N1155 -
laminated alt qtz

1N1156 - stream sed with @ confluence w/
'Red' crk (X) - mosses here w/ white
coating - ^{at} crk confluence still
some millipores - creek about equal
@ confluence 'red creek' look normal

1N1157 - Stream sed Red Crk.

1N1158 - Stream Sed well into orange/red
coating on creek bottom (mountain type crk)
The geology here is better exposed than
at Candy or Flower. Here we can
see, though not showing shales +
rusty conglomerates (1N1161) inter-
mingle much more than just

a conglomerate cap rock - at Flower
(75): For several hundred feet
vertically shales + breccia/conglomerate
(some more rusty some much less)
intermingle - shales have been washed
+ buried. Very hard light brown stream bed -
flowers literally reach deep - delphinium,
+ other small trees in valley to 24"
some spruce mostly - several aspen
cutting fir.

1N1159 - @ (6) near Candy Shanty -
bedrock conglomerate - all orange

1N1159 - stream sed sample - some more
as crk bottom is solid ex. This is
right limit trib to Candy creek
both are "orange/red": Many
avalanches in area - most recent -
last winter - lots of trees gone.

Aug 4 + 5 1N1160 Stream sed
from creek draining into Island
southwest of camp. Below Lake
Coribon creek a series of
beaver ponds - good secondary shows
L.L. trib - down 2 hrs 200 ft
no stream bed in pond area

also some, ~~of~~ of this quite common
taller float has 'pods' - $\frac{1}{2}$ "² of weathered
out metals - probably pyrite; Very carbon
ball - very common - + its lumpy surface.
A third quite abundant rx on the taller
slope is a very sparsely well crystalline
ply w/ 1/minute & baked on red (iron) metal.

Aug. 3 - Take stream sed. samples in
creeks draining opposite side of
pass @ Candy showing.

@ U - pass between June showing +
1927 creek. a 20m x 50m hill
zone w/ 50/50 heavily oxidized 'gossan'
like at Coribou + heavily rusted breccia
all - "soft albedo" swamp red -
especially side draining into Con
creek (June showing side) to a
lesser extent on 1927 side -
showing on east side of pass. old
canal fire first evidence of people - very
old (many avian & mushrooms in area).
This 'gossan' stuff is getting so
common I wonder if its worth
even sampling - there are however
some interesting structures in the
breccia rx - ~~also~~ small 2mm tubes

+ flake - as if wood was ~~same~~
part of this thing → sample IN1152
IN1151 - soil from hill zone area -
- quite a showing - actually a gossan. -
Didn't really consider Coribou as there that
as only small areas were exposed -
but these are just swamp gossans

@ Z - mixture of black + toward (V)
light green shales (as @ A) - Nothing -
particularly striking.

@ V - IN1153 - on strike w/ my two
'ophyritic showings' - this is
however a 'light yellow gossan' rock - a
dirty / weathered rx w/ ^{mineral} manganese stain -
one sample for show; IN1153 a soil
sample on this NW trending fault.
from (V) one can see the 'trace' of
of the fault - 1-2 km NW - the valley
is as red as Candy - also
directly below (+ directly opposite
drainage of pass Candy showing is in)
is a well white creek (bottom of it is
not water) just like upon 25 m of
Candy showing. ~~Either~~ This country
is one big deposit and hope -

Aug 1 - run transect thru June showing @
① - showing is in gen E-W alignment
w/ rhyolites on ridge if strike is
not E-W not W-E?

Upon investigation it seems the
showing is confined - or at least
only exposed on the west side of the
creek - The creek itself does not display
the red bottom and the swampy red
water seeps into it due to just natural
gravity. From the Flower showing - 1/2 km
up stream at 200m breccia conglomerate
are either the conduit for mineralization
or the actual mineralized zone - though
there appears to be thin breccia/congl.
rock type w/o nearly as much limonite/
oxidization as some others. At any rate
from Flower (or at least #42) it appears
to conglomerate dip to the NW - then
striking NE - but the dips are moderate
- I would expect the creek itself to
expose the showing - being on the east side
of the canyon - another mineral
exposure @ #41 or #42 are on the
east side of Flower Creek. Sample
IN1148 - red "overflow" soils in Carher Creek
like @ Kill zone - Do they carry silver +

where are they? ...
incredible # of blueberries - 4 - first recent
sign of bear - a few bit, must be
moving up from valleys after berries -
Aug 1 is right time for blue + about
berries here - 2 bull coriander -

Blueberries in all size / stages - some quite large
Aug 2, 91 run transect thru Flower showing
- West to East. ① The right limit
trib is the main creek - the red creek -
however it appears a small contamination
may affect the left limit creek (down to
the highest water @ 26) as it bottom is
a light yellow white. On the
talus slope ② it self are scattered
rock of limonite qtz - some look so
good had to take sample - similar to
26 - IN1149 ; IN1150 is a
brown (manganese/hematite) rind rock -
very hard w/ a lattice of quartz
veins + veinlets running thru out -
The rx appears very heavy + is
sparkly thru out - the heavy fine
texture of the rx does not allow one to
determine if this is metal or quartz
However on the margins of the
qtz veins there are silver, van, mag, sulfide

4.9 pH reading of 3205/6 on gneiss stream bed
must be from this? unless there is
yet another 'outcrop' between these -
gneiss reports no color in creek bottom -
it may be now are deleted by that
time - 3 kms; 3207 gneiss # - drainage
south of same knob as Zone showing
must extend to - yet no low pH or ^{creek bottom} water
color as is characteristic - yet good '28' ppb
Au value?

1N1139 - stream bed flower ark (L.L. trib) no bottom color

1N1140 - " " main creek (top) - " " "

1N1141 - ^{ck} yellow/orange decomposed rx / dirt

- from otherwise vegetated creek bank

@ S - creek has orange color (between R-S) @ S
conglomerate bedrock - w/ much limonite →

1N1142 (maybe labeled 43) rx are like those
found west of coribon showing @ "I"

rx seem to have a very mild dip to ^{north} west
say 10° - but diff. ^{to} w/ erosion & conglom nature

- main outcrop on left limit - 10m⁺ (length of creek)

1N1144 (43 labeled as 42 on type?) stream bed
above #42 above - creek bottom still reddish
orange/reddish.

1N1145 - a possible origin or off
① ②

L. Limit thought map for creek color -
bedrock at location is NW striking shale
w/ variable - twisted dip - horizontal to vertical
some large 1m⁺ congl. float - ^{all} ~~some~~ w/
limonite to some degree

1N1146 - rx soil @ 45 (AN) - a
black crust - 1/2" level between shale
overburden & real layer - red seems
to be a black zone - not more than
several inches deep

From bedrock above ~~at~~ 45 it can be
seen that the conglom is a cap rock
(strike slope? - but near horizontal?)
over usually vertical but NW striking
blocks & sometimes mostly (on bedding plane)
shales. 1N1147 - conglom sample about 40
orange in creek bottom & red seeps -
from both right & left limit
continues to vary near (down?) ridge top
which is composed of black shale

Conglomerate in upper reaches of creek
are common - they appear to be
forming in situ on creek bottom
w/ orange/red material.
follow anniversary

July 30, investigate emissions around Candy
showing - but 2km of trail from camp to 1927 creek → to facilitate travel to west side of property.

IN1131 - Ryolite plug found @ (N) - dip
to 45° @ angle of 30° Strike NW.
@ (M) - showing to 3!!! - ~~red~~

orange creek 3206 th incredible -
certainly expand parallel sulphide
deposits size - if orange low pH caused
by such - has to be

"Gossan" south of Ryolite looks very
interesting as well - too much

distance - unnumbered sample of Ryolite taken
The drainage from Ryolite gossan @ O - that is
creek @ P are all under ground - the
valley is a jumble of rx until the
end where creek "springs forth" 1/2 km
from confluence w/ other creek. @ O Cirque is

output a light green shale strike E-W - dip
steep to N w/ some pyrite + talc

talcs along the sides are heavily rusted
(on fracture) block shales - cirque one looks
like a huge dredge + cuts have been in area

IN1133 - pt's float w/ limonite + "burnt metal"
from west gossan float train

IN1134 - waste silicified? w/ trace silver
sulphide - from ~~west~~ east value train

- east gossan much more rusty - No
H₂O draining anymore (all under ground - no stream
sed)

IN1135 - stream sed @ creek some it surface

IN1136 - " " @ main creek: creek is
very red on bottom - quite large - 5' x 6"
looks like a salmon run w/ large red
rocks or sediments.

IN1137 - swampy area to west of creek has
red "organic" layer of 1" - several inches - sample
- when went to see if it carries values -
how far below showing (flow?) values
go - sulphide conditions + red dirt worked
in valley during high water on creek
"drained" Coribon showing (sample 7 creek)

IN1138 - ^(M) near Ryolite - in trail along
west hill - showing H₂O -
oxidized entire mt rx - mostly like
Coribon - other rx in area more
solid - calc/iron/basaltic - no sulphide
no hell zone or red sand (yellow)
but much more a larger size 103+
- Creek bottom clears up from IN1138

NE (axis) the rx are striking NW and dipping to NE @ 80° - very ~~flat~~ columnar.

Another (or same further on strike) similar rx toward K - also more powder, black, graphite. Most rx lighter shade; @ K E-W striking near vert. dip (to N) chert pebble breccia zone - fairly extensive in size - knobs depicted on map.

@ IN1127 - beautiful north grass valley E-W in line with Corihon stony - 'definitely' a fault - #27 is again laminar breccia - also a large white qtz system or just south of 27 flagging. Coming off hill above lake in

front IN1124 - magnesian rx w/ stringers of either metal or xtaline qtz coated w/ magnesian - also slightly altered inside (sandstone like) w/ 2-5% disseminated pyrites etc. First real sulphide seen. Collected nice oxidized specimen from corrosion - also some digging in area. Seems to strike S.E. NW. >120°??

July 29 - investigated + collected stream soil samples on creek draining ~~to~~ to west on knob south of camp - good Cu + Sb + molybdenum values from first survey

The knob elongated E-W w/ three subordinate branches is very well covered. Some water exists along the N. edges of drainage - esp down lake. The rocks in the creek, unlike those south, are well rounded for the most part. Most northern branch, top soil - IN1128: stream soil, shale cut up here. L. 113?

IN1129 - " " near confluence

IN1130 - " " left limit branch

IN1131 " " right limit of above

IN1132 " " left limit of above - the left limit is near creek of two.

Creek sep #30 has some amount of granodiorite boulders though quite round. Creek color is clear though govt give crk 4.8 pH ca 1727 ±. Candy much less laminar rx - nothing out of ordinary other than granodiorites + "tuff - feldspar porphyry" rx in creek. Several more beds (are more in camp but right) They lay in grass meadows near creek heads. Very beautiful w/ grass, yellow groundbark, violet muske herb, posid ferns, blue long wood or red stinks of oxide beds, a white "trichum" etc all w/ a biochlorea of grasses covered mt Joy/Haining Range.

a patch of downed trees - orange dead
 fir needles? - tough area to get to.
 such brush (with matogy) is hard
 to get thru. Coribou follows us
 at - very close at times. Hwy Run - 2
 days. "Shoury" @ G does not
 "line up" with Condy or I would
 expect - 100-120 but is - NE - need
 more investigation. Difficult area as
 walk is on lake - hell on earth or
 over such brush area. " " also.
 Coribou showing 35 actual miles from road
 (@ Plata area) - 25 air miles - no crossing
 over 3700' - 1 bridge on Rogers for
 exploration - plane from Fort Mayo to
 the from showing or helicopter - close thru
 many SW when site (AZ). Site 100 miles
 east of world class (largest one). Ag mine,
 100 mile N of " " " " Pb Zn
 adjacent to Ag mine - whole area anomalous
 in Au (at base)

July 28 - investigate limonite braccia
 zone discovered 26 in trip of 1927 etc.

@ I - a couple to several 100 yd sections of
 creek and adjacent ground (less to no - ramp)

IN1120

low braccia or limonite braccia + yellow qtz.
 There is the regular short parallel braccia
 which extend further up the side than
 the limonite, these is the limonite or that
 is a dirty matrix braccia w/ shale - this
 must be new or the shale would surely
 be gone - some is certainly but generally
 hard - a weakish matrix holds some of it together
 - almost not well. Shale braccia → conglomerate??
 No actual outcrop - but area @ I suspect -
 many braccia in 'plate' @ I graphite
 zones (v. on ridges to the east) - very
 fine - look "pure". Between I + I block
 shale w/ rust strike ~~NE/SW~~ dip NE @ 45°
 or @ L above Condy showing these very
 dark shales seem to over lie a
 much lighter - especially almost - shaly
 shale - (rx break into nice swords of 2'+)
 at these contacts a fair bit of
 limonite / rusty material - a massive
 white qtz is also sometimes present - +
 yellow qtz stringers in rusty rx - no
 sulphides evident. Sample
 IN1126 is such a ^{white/yellow} qtz joint on ridge
 top w/ shale/shale contact - in a
 darker grey (not light or black) striking

1N1121 - ✓ for width $\sim 210'$ from
main showing ~~from~~ - soil from
log - some rx chips (same size) of
eaten out character & earthy red soil

if anomalous - potential $\rightarrow \sim 40'$ zone

June 26/27 - run transect thru "Conely" (E)
showing @ 114' -

1N1122 - STM sed on right limit trail of
1927 creek. 30-50%+ breccia in
creek rx - limonite to dirt cement
also orange qtz - ~~is~~ 'sawap' around
crk breccia predominate

1N1123 - main 1927 (left limit above
junction - 1-200m) shale ~~at~~ bedrock
at crk here - some red within
bedding - enough to redden portion of
crk when big int - Dip 20-40 N -
I suspect the shale - being
irregular & soft well laminated -
possibly skew ~~of~~ STM soil results
away from values favoring the etc -
Have noted fine - & there are lots -
seem to be shale powder, ??

From on high there are a number
of gen E-W (100°-120°) running faults

That are parallel or "aparrallel" streakwork

The #1 showing (Coribou) is on a
particularly wide bench (fault?)
that runs very strong thru out
the 'broad' (a below the conely
showing. These E-W structures
continue north to Murray Lake -
thru the area north of Lake I
were capped on with the 15,21 Au ppb
Govt STM geochem #'s - very efficient
from above. At (G) (G w/o circle is given)
on R. limit trib of conely creek (govt
geochem (48,11) (my sample #11) there is
apparently a rusty patch within
the creek - not far below (1-200m)
from the crk source in tubes. The
crk appears orange from mtn tops to
the west. from directly above (south)
it appears as an limited area - a
meter or so + creek appears clear
below this. @ H - just ~~below~~ below
band in crk large rusty area w/
trees - 100's of ft - from 4000' level.
From ~~the~~ slope higher on mtn looks like

IN1110 @ 152422 - Texas Flagging on at
Fehsokhar + Nevada + ??

STM sed R. L. limit, also flagging found
on ridge helicopter parking

IN1111 - L. L. limit STM sed @ 152423
at lower end of gash/crack
1 yr old flag - "105N 903203"

- crk - 2' wide - rusty coating on
everything, rocks, tree branches, etc
in winter - J water floor - green forest

@ IN1113 - rx dip 40-45° N ~~rust~~ black
shale w/ some rust - some foliation or
ruffles

IN1112 - R. L. crack below rust

1 carbon - bands? @ 45° - stands, highly flinty
very hard.

incredibly rusty creek - almost rust of
organic coating on rx - but it starts
immediately near pines.

UNBelievable - CRK Δ² 3 Times

leg: suddenly - milk white for 2m
then beat red → orange - within 2'

Sample IN1114 - leaching orange

1 show sample of red + white streak
on rx

- 1 rx - 100m below Δ vol silver metal

in columnar x tabs - sample taken
- silver dollar size of tab.

Post office box qty in 1/2 m - white
"schist" - almost well sorted structure
off white - only rx out of rock in
shale dip steeply to N -
some very thin, below crk color
changes. (Wd)

July 25 investigated area around showing that
run transect of 100° thru showing
25m E of showing about parallel about "concrete"
broken bedrock strikes @ 125°; some rock
(conglomerate) w/ minor dark limestone + shale (50% ^{stone} pebbles)

IN1116 - ~20m 120° of showing - dirt in bog hole
- no color - no sign of iron

Zone likely runs 85°-120° ~ 100°
STRIKE w/ rusted out rx over 30 meters
E of main showing (IN1118)

IN1117 - 10m E of ACRTS Swamp Sed

IN1119 + 20 120° ~ 20-25m E of showing

19 - red grit on top of orange

note coarse layer (IN1120) w/ 1/4
quarter size rusted out bits - hole
frozen @ 21 millims of rust

ZONE at least 5m wide.

gossamer hangs on water like a colder
veg - mostly sub alpine fir - @ Lake
Some spruce to 8-10", fir in lake, muskeeter
black fly (all sizes) ~~water~~ flies are numerous
to say the least. Ground cover - bush hound
reindeer moss - which is extremely slippery
underneath. Took knot in left knee after
slip - some more caribou? tracks - gassy
relatively easy - some thick stuff
between two glacial recess

Unknown if ~~ground~~ exp. to west is
staked, will continue to search for
evidence. @ D Cloud berry showing
4m x 8' red veg. kill zone in
Swamp; Rock honeycombed
leached out limonite, very light,
crumbly - IN54; 8' channel
sample E-W IN53;

IN55 - sample @ 2' loop just
south of ends

@ E stake. Dip 33° West, strike 30°
between D & E possible "worm" @
spring - low volume L. Limit of creek
irregularly incalculable

40' from ridge below D to center on opposite ridge
1 caribou above showing - lots of beaver @ camp.

July 24 Look for flagging as seen of
final approach to lake - south side
of canyon - ~~200m~~ west camp - collect
straw seed samples; ~~if~~ if flagging &
staking it may be easier to sell property,
(if numbers are evident @ staking) or someone
has visited in the area.

IN11 should be prefix of 1st five samples
not IN5.

IN117 - straw seed on creek draining into lake.

IN118 - " " on " " "19,27" CRK;

Flagging must be between "1927 + 48,11 CRK

Between 1927 + creek that drains into lake CTD16 is a

grassy meadow - locust - beautiful - some trees on hills
of creek to 11" - large flys, mosquitoes, black fly - ^{two} _{new}

IN119 - boulder float above (L. Limit) IN118 -

breccia / cong (concrete) w/ some limonite matrix

Below (down creek - L. Limit) IN118 - out crop -

stake dip 20° N, - some limonite between

'plate'. One rx of interest - black chert

w/ white qtz veins w/ 5-15% limonite - relatively

common on lake edge, etc etc - always float.

IN116 - manganese float w/ veinlets of qtz +

? silver, metal - magnetite? ? on lake w/ lake

200m camp

Aug 5 - early am flyout
Monday - Arthur Brian

July 22-23 - To Faro. Fly Arctic Air 806 into
Lake - Inland S. Murray Lake - south
of mt Joy 105 N10, set up camp - west
end of 1 km long lake - very narrow
in deep canyon - surprised plane landed -
pilot Brian (owner) Near Staggery west of
Lake upon approach - no post etc
seen. Investigate Anomalous Au values
from Geochim release that range in
values ~ trace ~ 50 ppb in large area
100 km² north of Swan Lake to
Murray Lake in north.

(A) - feldspar (f) qtz (white) in siliceous shale
w/ limonite; ^{1N51 -} stem sand in per. exp. ^{to film on rx 5}
1N52 - stem sand or per. exp.; (B) breccias
w/ 1/2" inclusions - also shaly schist w/ qtz
veins (white to 1") Some breccia (f) w/
qtz veins - w/ open spaces;

(C) outcrop, 'Messy' chert/shale w/ qtz (white)
veins to 6". Most qtz veins strike
north-south; outcrop - chert shale breccia seems
to strike E-W though this could be a
relic glacial feature. Many \odot E-W
veins - rounded boulders late from Faro - base.
Bright orange red gossans on mt Joy
& exp on mt just to the east.

LANSING RANGE

LANSING PROJECT
MINERAL INCENTIVE
PROGRAM

PAP - QUABSTANC

897 ± NTS 1058/W

sample locations
1-61

see text for details
and explanations
of letters (A) etc.

1:50,000

RS BERDANE

SAMPLES 16-21
at CARIBOU SHOWING
(D)

SAMPLES 45-7 at ELGIN SHOWING
(M)

STEWART

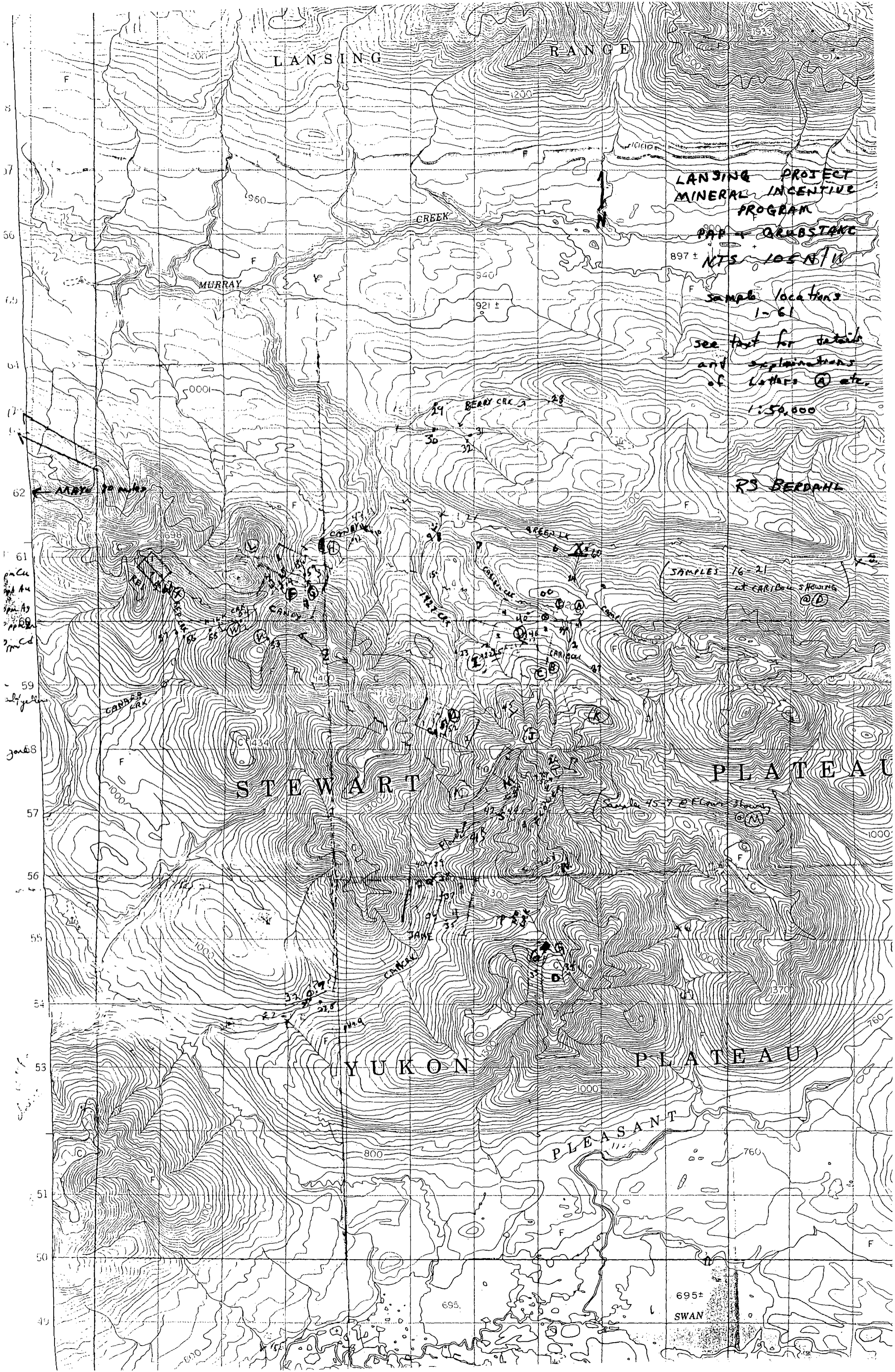
PLATEAU

YUKON

PLATEAU

PLEASANT

695 ±
SWAN



8
17
56
65
61
62
61
59
58
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55
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51
50
49

← ARBY 70 miles

on Cu
on Au
on Ag
on Pb
on Cd
- 59
sh yellow
zomb