YUKON MINERAL INCENTIVES REPORT

2001

Project #1
Talbot Arm

Project#2
Green

Project #3
Sophia

Ron Beidahl

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2001

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Project #1
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Yukon Mining Incentives Program

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Summary Report for 2001 Field Season

This report covers three grassroot prospecting areas investigated during the 2001 field season Two areas were primarily investigated for gold and the third for base metals

The initial application was changed, shifting a portion of the "green project" from the Ace Mountain area to two additional areas, one just north of the South MacMillan River(Scott), and another (Solo, Rush, Myshka, Sophia) further to the north, just north of Noranda's drill program

Both these additions reflected the attention Noranda was giving the Andrew property on the 105K/16 map sheet The "Scott" component focus was to look for a base metals extension to the south of the Andrew showing The "Sophia" is an old Hudson Bay, Noranda, Nova Gold property to the north of Noranda's current activity The claims came open August 12 The property is regarded as a Ag/Pb showing but was most recently looked at by Nova Gold as a potential intrusive hosted gold target This was my focus as well

The other component of the "Green Project remained as per the application, looking for a large area of zinc moss on NTS 105K/9

Finally a multi element RGS anomaly just east of Talbot Arm(Kluane Lake), NTS 115G9&10 was briefly examined for gold, etc This area had been "protected" from exploration since 1988 by a recently dropped land claim selection (Kluane Band)

PROJECT #1
Talbot Arm

LOCATION The Talbot Arm project is located on NTS map sheets 115G9/10, at Latitude 61 31' N and Longitude 138 33'W The property falls within the Whitehorse mining district It is approximately 10 miles northeast, and across Kluane Lake from Destruction Bay

ACCESS Access to the property was via helicopter from Haines Junction There are no close by lakes suitable for planes, save Kluane Lake itself

GEOLOGY: The geology, from Muller(1953)1:250,000 Kluane Geology Map, shows the area is underlain by a contact between a roof pendant of metasedimentary rocks with limy horizons (unit 3- quartz,chlorite schists, quartzites et al.),possibly unit 3a (crystalline limestone)and Ruby Range batholith (unit 5).

WORK DONE Between July 24 and 30, 2001 a general examination of the project area was made Three goals were set
1) Examine the area of the minfile occurrence 115G69
2) Attempt to reproduce and refine the RGS data and
3) Examine the linear mag high that parallels the target mountain, across the valley

RESULTS. The mineralization in the showing (minfile 115G69) was not located Hilker's 1970's spent safety fuses were found in talus but any trenches had been have since been reclaimed by nature A search of the talus found no chalcopyrite, though sulfides, while not significant, are not uncommon in trace dissemination's and veinlets in some locations on the mountain A soil sample taken near the suspected trench sites returned slightly anomalous Cu, Pb, Zn, As, Fe, etc (D-15)

Previous work on the property is outlined in the accompanying minfile report Several "generations" of claim posts can be found, though little physical work is evident In all 16 rock, soil and silt samples were analyzed by 35 element ICP at Acme Labs of Vancouver Digestion methods are outlined on the analysis sheets. All Talbot Arm samples are prefixed with "1G10"

As was expected the geology was far more complex than mapped at 1 250000 The mapped limestone unit (3a) was slightly east of reality, it was considerable longer than mapped, extending into

the next valley, mimicking the NW striking mag high. The mag high seems associated with a schist/granitic contact, a geologic contact between altered (orange) metaseds (unit 3) and granodiorites A "gossanous" zone was sandwiched by the limestone and intrusive rock for four kilometers The orange or limonitic biotite schist have up to 15-20% disseminated sulfides (pyrite/pyrhotite?)(R-8) Some of the schists have a purplish hue

Sample R-8 was taken on a "gossanous" saddle within the metaseds It is unremarkable in base or precious metals but seems anomalous in Fe, Sr (951), Bi (285) Mg, Ti, Nb, and Sc (Sc is worth about 20,000$ /kg) The baseline RGS data from the mid '80's unfortunately does not cover these rare earth elements so it is difficult to ascertain how unusual these numbers in this Terrane are

The RGS confirmation and refinement was made difficult by very heavy rains prior to and during the field work All streams were torrents making tradition silt sampling impossible Some moss mats were gathered from stream banks but these are impossible to compare directly with RGS data

RGS data sample 3390 (grizzly creek) exceeded my corresponding sample in most base and precious metals Only in Mn, As, and V were the field samples higher than the RGS data, and the sample (1G10S9) consisted mostly of moss mat It has been my limited experience that moss mat sampling can produce results for some elements one magnitude over traditional silts. Smaller creeks allowed for better sampling. Silt samples S16 and S17 taken from Grizzly Creek tributaries at the very base of the target mountain were the only samples that exceeded the RGS numbers. Above S17, massive pyrhotite was discovered (R21) Interestingly the stream seds closest to the pyrhotite (S16, S17) (within 100's of meters) do not reflect the same chemistry The silts are high (relatively) in As (221) while the rock registers only 13 Zn, Ni, Cd, Ba and Pb have similar patterns While the rock is high in W, silts aren't

R8 had some impressive Ti (1 94%), Nb and Sc Garnets in the intrusive associated with the mag high are thought to be a product of regional metamorphism.

CONCLUSION/RECOMMENDATIONS The results at Talbot were disappointing No significant gold or copper numbers materialized Panning revealed a surprising lack of metals, even pyrhotite, which seemed to be a rather common component in schists. The linear mag high is probably due to the pyrhotite rich schists. Water was everywhere during my visit and bits of black sand were apparent in "springs" along the ridge paralleling the kilometres long mag high. Tourmaline and garnets initially heightened interest when found in creek (S-7) But I have concluded the tourmaline is from the granites and the small red garnets in the intrusive are probably relics of regional metamorphism. Garnets are common in schists elsewhere in the region The only mineral showing found, massive pyrhotite, yielded disappointing results (R-21) There is little doubt that there is a large (say 4 km sq) area of intense alteration The area represents an impressive plumbing system but elements of interest didn't appear to make it to levels exposed today Similarly the alteration associated with the kilometers long mag high is interesting but precious metals weren't located on surface. There are apparently different stages/ages of intrusive activity, with different orientations of felsic and mafic dykes on the target mountain I would recommend the area for sheep hunting For conventional grassroots surface examination however I would put this area on a lower priority list for further investigation

Project #2
GREEN PROJECT

The Green Project consists of two components The first, GRN (a) is on NTS 105K/9, while the second, Scott (b) is 20 km north on NTS 105K/16

LOCATION
a)The GRN is on NTS map sheet 105K/9,approximately 50 miles north of Ross River at Lat /Long 62 27' / 132 48'. The project area falls in the Whitehorse Mining District

b) The Scott is on NTS map sheet 105K/16,approximately 60 miles north of Ross River at Lat /Long 62 52' / 132 20 The project falls in the Mayo Mining District

ACCESS·
a)Access to the area was via helicopter from Noranda's Andrew camp (egress) while exit was with a beaver float plane off jawbone lake. Several small lakes in the area could be used for float plane Helicopter landing locations in lowlands are somewhat limited.
b)Access to Scott was via helicopter from Faro (Noranda) A float plane could access 80% lake, taking care to avoid three slumps containing trees etc that have slide into the western portion of the lake

GEOLOGY· The geology for the two components of the green project as well as the Sophia (project#3) is similar as they all fall in the geologic Selwyn Basin The regional geology is exhaustively described elsewhere, and I will not touch on it here except to say there are a series of sedimentary units from Proterozoic "grit unit" quartzite and limestones underlying Ordovician to Devonian "road river" black shales and cherts, which intern underlie Devonian to Mississippian "earn group" chert, shales and conglomerates

The most prominent rock in both components of the Green project is Earn Group, and both have associated cretaceous intrusives nearby The Sophia project (solo,rush,myshka) is underlain by roadriver and grit unit rocks, again with associated cretaceous intrusives

Of more economic interest is the RGS data from government and Atlas Exploration (1968 work in area) Gov't RGS data for Earn/Grit/Roadriver silts respectively at the 90% is as follows:

Zn	364	/	398	/ 826
Pb	20	/	32	/ 28

Atlas' 1968 work 105K16, based on 625 silts, 90%

Zn	349
Cu	49
Pb	62

Atlas considered soils to be highly anomalous if over 200ppm for Pb and 150ppm for Cu

Previous work in all three areas is limited.
a) The moose only recently discovered this swamp
b) A couple of axe marks on the west end of the 280 degree fault, probably in conjunction with Atlas's silt program in the area The programs results were apparently not followed up until 1999 when I discovered a 9.29% Zn "kill zone" 6 km west of Andrew, which was followed by a second and third Pb/Zn showings in 2000 by Anne Bordeleau, near the 9 29 showing And finally a third "kill zone"(Scott)(see photo) this season. At the Sopia Nova Gold's assessment work was yet to be released at the time of the property visit For Noranda, Hud Bay see minfile

WORK DONE:
a)Grn The object at grn was to try and locate a patch of zinc moss spotted from the air the previous year The general location was staked as GRN #1 after snowfall that same year An RGS data point 3364/65 draining the partially burned swampy area registered anomalous in Zn (90%)

A series of loose grid patterns were walked without locating the zinc moss It is possible horsetail or grass could have been mistaken for florescent moss with the changing autumn colors An RGS sample point was resampled and mag highs and outcrops in the area were investigated

RESULTS
a)No mineral occurrences were located The 90% Zn RGS data point location was resampled (S-23, S-24) at 70%til and 50%til At R-26 intrusive rock was found in place Ground was generally swampy or til covered, limiting outcrop A large cliff to the northeast of jawbone lake looked like a volcanic (glass particles) but maybe a reworked quartzite

CONCLUSION/RECOMMENDATIONS

a)The area is a low priority for further exploration however a close eye should be kept out for the illusive Zn moss patch, with GPS in hand

WORK DONE

b)Numerous samples were collected from a) and b) Thirty one were sent for analysis with Acme Labs in Vancouver using 35 element ICP-MS and ES(Au) Digestion methods are described on analysis sheets. All Scott samples have a "1K16" prefix

Work at Scott centered on a "280 " fault cutting rusty conglomerates in the west and shales and sediments toward the east The conglomerate associated with the fault is Fe altered, silicified and in places very rusty Traverses were taken along ridges, up creeks and along the 280 fault Four Scott claims were staked. The new Scott "kill zone" was examined and heavily sampled Areas rendered anomalous by Atlas were investigated

RESULTS

b)Results are mixed, which is disappointing considering the discovery of a third "kill zone" (slide) (Andrew and 9.29 being the others) The numbers from this zone are anomalous, but not impressive The zone has smoke. secondary calcite veins, several soil samples from 177 to 667 ppm Zn, Rock samples to 2428 ppm Zn,421 Ag, 4619 Pb, and 1169 Cu (R-85) Manganese exceeds 3%.

The Andrew zone (50 m of 14% Zn) is the local standard by which other showings are judged There are some similarities There are significant amounts of secondary calcite in both zones Drilling at Andrew intersected large intersections of calcite (pers. Comm C Barr) The color, size and morphology of both zones are similar The grades and geochemistry less so Andrew has a strong Zn/Cd correlation, as does Scott. Andrew has an inverse correlation of Zn/Ba, very low barite numbers Scott has moderate Ba numbers Andrew has a Pb/Sb correlation while Scott displays a seemingly more anomalous signature in most metals, but Zn Ag is only moderate at Andrew (though up to 6opt in galena veins associated with the zone) while apparently higher (421ppm Ag w/2428 ppm Zn) at Scott

One of the main features at Scott is an east striking fault ("280 degree fault") and the associated widespread Fe alteration apparently associated with it I have interpreted the fault to be the fluid conduit for mineralizing fluids generated by the large cretaceous pluton 1 5 km to the north Thus I was somewhat surprised to see the Scott 'kill zone" above the fault Fe alteration is found on both sides of the fault until it crosses 'Red Rock Creek' there after only south of the fault Multi colored quartz veins can be found in portions of the fault

Another notable feature is a large graphitic black shale unit striking northwest intermittently for 1 km located just above the fault It may cross the fault to the east There are several east west linears through it. The unit cuts a small drainage (Atlas Creek) where Atlas prospectors had high Zn in silts. Below the fault this creeks silt (in zinc moss) ran 1.0395% Zn with low Pb and high Cd, typical of Andrew ore (s-17) A creek .5 km to the east (Echo Creek) (and also anomalous on the Atlas map) drains the Scott zone. Interestingly a silt sample taken at the kill zone runs 394ppm Zn (90%), while 1 km downstream, and across the fault a silt ran 1148 ppm Zn (S-2) This was 5 km below the fault. Also the ratios of Zn/Pb and Zn/Cd and Zn/Ag are more like Andrew numbers

Much, if not all Fe alteration is in a conglomerate unit. R-16 ran 20 67% Fe Others were 7.49% (R-20) Rusty conglomerates at jawbone lake 20 km. south but in the same earn group package ran 3% Fe (D-25)

CONCLUSION/RECOMMENDATIONS

b) Looking at our, and Atlas's results over the last three years (see attached map) I suspect there is an east/west mineralized trend running from Andrew through "9 29%" and to the west (Andrew is also associated with a 4 km long, mineralized, northwest striking zone) I suspect that the 280fault represents a more southerly east/west mineralized belt 7 km south of Andrew/"9 29"

A grid is needed for an extensive soils and geophysical program An extensive silt program should be carried out as well from the intrusive body 1 5km north to the South MacMillian river in the south

PROJECT #3
SOPHIA

LOCATION/ACCESS The Sophia prospect is located 15 km West of Mt Selous, in the Clearwater Creek drainage Both these features are found on the 105K16 NTS series map sheet Latitude 62 58'N, Longitude 132 10'W It is the Mayo Mining District Access to the property was via Helicopter from Ross River 68 miles to the south An airstrip used in 2001 by a Dehavlian Otter is 4 miles to the southwest

GEOLOGY see project #2 description

The Sopia is mapped as Road River with slices of Proterozoic limestone quartzites The main rock unit is shale (argillite) and hornsfels surrounding a central granodiorite intrusion Conglomerates predominate the western portion of the area and a carbonate unit is to the south, striking northwest

The most prominent feature at Sophia is the large area of intense alteration Even the granodiorite is altered, in places to a light green aphanitic rock (R-67) to zones of "oxidized" crumbly intrusive (R-68,69). Some intrusive hosts hairline fractures filled with sulfides. The north side of the promontory covered by the claims are colored orange, yellow, red, and green The alteration may strike northeast onto the 105N1 map sheet

WORK DONE Previous explorers (Hud Bay 1968, Noranda 1990, Viceroy Nova Gold 1998) sampled and mapped the area Nova Gold's assessment work was still confidential at the time of the property visit Hudson Bay's grid is still visible in some places The showings are described as silver veins. RGS data shows several highly anomalous multi element base, precious, and pathfinder metals emanating from the altered areas suggesting a gold property

Thirty one samples were sent for analysis at Acme labs using 35 element ICP ES and MS

Work in 2001 between August 22 and 31 consisted of familiarization sampling of different rock types including the intrusion, and exploring below treeline to the northeast and southwest

RESULTS· The Sophıa hydrothermal system ıs large Gıven that three other explorers have vısıted the sıte previously ıt would be overly optımıstıc to assume, ın thıs well exposed sıte, that one ıs goıng to quıckly uncover somethıng others haven't. However, ınterestıng thıngs were found

The ıntrusıve (R-67,68,69) was anomalous ın Pb, Zn, Ag, Cd, Bı, and moderate ın As and Sb The altered granodıorıtes contrast wıth many mıneralızed rocks to the north (draınage #1, heavy alteratıon throughout) R-52 to R-57 though well mıneralızed Are hıgh ın As, Sb, and ın some cases Au, are moderate to low ın most other pathfınder elements

The RGS data (RGS #14,17,12) are hıgh ın most elements These numbers can be explaıned wıth known mıneralızatıon ın draınages #1,2,3,7. But no one rock type ıs anomalous ın all elements.

Stream sılt s-60 draınıng conglomerates partıally reflects the Andrew property base metal ratıos, hıgh ın Zn and Cd, low to moderate ın most others The Zn maybe derıved from underlyıng RoadRıver shales, whıch have an anomaly threshold for Zn 2 5 tımes that of Earn group rocks. If that ıs the case, the 706 ppm Zn ıs less ınterestıng

Soıl sample D-62, from the same draınage, ıs anomalous ın Pb. S-79,reflectıng RGS anomaly #13, ıs hıghly anomalous ın many elements. The hıghly altered draınage basın ıs probably an extensıon of the Sophıa alteratıon Nova Gold holds claıms ın that area untıl July 2002. R-81 exposed ın a slıde of shale and quartz carbonates ıs hıgh ın Sr

CONCLUSION/RECOMMENDATION: The Sophıa area has a large area of ıntense, varıed alteratıon It ıs mıneralızed to some degree The Sophıa needs mappıng and analysıs of the alteratıons, an array of geophysıcs and a drıll

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GEOCHEMICAL ANALYSIS CERTIFICATE

Berdahl, Ron File # A103723

Box 11250, Whitehorse YT Y1A 6N4 Submitted by Ron 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 %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm	Au* ppb
G-1	<2	2	23	55	<5	5	5	807	2.29	<5	<10	<4	10	720	<4	<5	<5	56	2.80	.094	30	12	.76	1029	.27	.8	.65	3.08	.3	.45	<4	8	2	18	19	2	7	1	0
1K16S1	4	66	44	1148	9	82	17	673	3.42	106	<10	<4	12	155	8	2	8	<5	160	1.22	.131	39	59	.89	1829	.28	.5	.12	.58	1	.93	<4	58	5	17	8	2	10	4	6
1K16S12	4	100	122	394	2.6	101	27	1395	4.23	181	<10	<4	12	237	3	2	11	<5	139	1.93	.172	39	55	.87	1562	.30	.5	.66	.70	1	.80	<4	60	9	25	8	2	10	9	7
1K16S17	8	364	30	10395	1.7	991	10	524	3.12	51	15	<4	9	150	102	5	8	<5	310	1.74	164	24	83	.73	1663	.19	.5	.86	.37	1	.93	<4	51	4	31	5	2	11	5	7
1K16S19	4	81	23	167	7	43	13	381	2.93	23	<10	<4	9	209	1	0	<5	<5	158	86	083	29	51	72	1373	.27	.6	.12	.89	1	.69	<4	62	2	15	6	1	11	1	7
1K16S21	3	31	41	211	<5	34	15	631	3.62	98	<10	<4	13	169	1	8	<5	<5	154	1.48	105	41	48	78	1502	.30	.6	.68	.99	2	.00	<4	41	4	20	7	2	13	3	2
1K16S22	11	43	17	175	5	40	8	135	1.79	8	<10	<4	10	95	2	8	6	<5	237	52	087	27	60	56	1151	.26	.4	.67	.37	1	.69	<4	56	2	18	7	2	9	3	1
1K16S23	6	36	17	236	6	38	11	443	3.07	10	<10	<4	10	149	2	2	5	<5	262	81	101	29	70	68	2093	.30	.5	.58	.50	2	.04	<4	65	2	17	7	2	10	2	1
1K16S24	<2	16	9	78	<5	16	8	339	1.78	<5	<10	<4	7	333	7	<5	<5	169	1.70	063	23	49	92	1456	.31	.5	.59	1.18	1	.66	<4	63	<2	12	6	1	9		7
RE 1K16S24	<2	14	9	75	<5	16	7	327	1.72	5	<10	<4	7	323	7	<5	<5	154	1.75	066	24	45	88	1417	.30	.5	.67	1.21	1	.57	<4	63	<2	11	6	1	9		9
1K16S32	3	37	17	104	<5	29	11	632	2.68	11	<10	<4	11	218	5	<5	<5	130	1.15	.087	38	53	80	1683	.29	.6	.28	.86	1	.98	<4	67	2	15	7	2	10	1	7
1K16S77	6	52	15	184	5	55	12	449	2.79	12	<10	<4	8	122	1	4	<5	<5	197	85	.120	22	89	76	145	29	.5	.39	.42	1	.97	<4	56	2	19	7	2	11		9
1K16S78	21	59	15	394	<5	131	13	399	3.40	16	<10	<4	12	186	2	7	<5	<5	272	1.11	242	35	139	79	1043	.31	.8	.66	.48	2	.78	<4	63	2	32	6	2	17	1	3
1K16S79	10	303	15	982	1.5	235	54	3038	8.74	37	<10	<4	6	159	11	4	6	<5	303	96	.248	21	96	55	729	22	.5	.65	.40	1	.70	<4	52	<2	29	5	4	12	17	3
1G10S5	<2	20	16	90	<.5	38	18	738	4.03	7	<10	<4	10	754	<4	<5	<5	114	4.30	077	36	95	1.66	591	59	7.86	1.55	1.94	<4	25	2	21	11	2	14		7
1G10S6	<2	44	18	108	<5	61	23	928	4.56	7	<10	<4	10	355	<4	<5	<5	127	2.55	.091	36	116	1.80	583	55	.8	.28	1.93	1	.87	<4	26	2	15	8	2	16	1	1
1G10S9	3	64	31	163	9	36	20	859	4.96	63	<10	<4	11	408	9	<5	<5	152	2.96	.127	53	81	1.55	1007	73	.6	.91	1.68	2	.11	16	31	3	24	12	2	15	12	1
1G10S10	<2	35	18	109	<5	53	24	787	4.58	8	<10	<4	10	867	<4	<5	<5	117	4.81	121	43	101	1.51	580	65	.7	.61	1.47	1	.99	<4	26	2	26	15	2	15		7
1G10S16	4	85	42	276	9	47	27	1903	5.49	116	<10	<4	11	306	4	3	<5	<5	136	2.01	149	59	74	1.48	959	53	.6	.97	1.64	2	.03	<4	34	3	26	10	1	15	15	4
1G10S17	6	233	51	482	1.9	101	42	1671	6.92	221	<10	<4	13	300	7	0	8	6	150	2.08	.142	61	100	1.79	1209	58	.7	.51	1.49	2	.78	<4	29	4	31	11	2	15	32	2
1G10S20	5	334	45	313	1.7	66	35	1170	6.48	144	<10	<4	9	367	4	2	6	5	141	2.63	.133	46	88	1.75	1056	52	.7	.14	1.54	1	.97	<4	31	2	25	9	2	14	32	6
STANDARD D	10	128	43	188	<5	43	15	1060	4.00	29	<10	<4	7	234	5	7	7	6	140	1.63	.104	29	305	1.02	1094	40	.7	.64	2.15	2	.20	8	44	7	16	8	3	11	22	5

Standard is STANDARD DST3/DS3

GROUP 1E - 0 25 GM SAMPLE DIGESTED WITH HCLO4-HNO3-HCL-HF TO 10 ML UPPER LIMITS - AG, AU, W = 200 PPM, MO, CO, CD, SB, BI, TH & U = 4,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES - SAMPLE TYPE. SILT SS80 60C AU* BY ACID LEACHED, ANALYSIS BY ICP-MS (10 gm)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

DATE RECEIVED: OCT 19 2001 DATE REPORT MAILED: Oct 31/01 SIGNED BY. C. Leong .D TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS

Data ✓ FA ___

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 %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm	Au* ppb
1K16 R82	3	18	582	28	4.6	7	<2	92	1.45	1249	<10	<4	4	66	< 4	117	21	84	.09	.008	15	99	.43	514	.04	1.78	.12	.11	<4	11	140	4	<2	1	3	18.9
1K16R 83	3	17	17	263	< 5	10	2	100	2.62	6	<10	<4	<2	7	< 4	<5	<5	24	.09	.048	2	92	.46	175	.01	.83	.01	.11	5	3	<2	2	<2	<1	4	1.0
1K16R 84	2	9	10	62	< 5	19	8	1212	3.09	99	<10	<4	8	103	4	5	<5	64	.6 72	.016	25	58	.48	1434	.10	4.75	.02	1.99	<4	14	6	11	2	2	5	2.1
1K16R 85	<2	1169	4619	2428	421	0	<2	<2	37816	4.46	529	<10	<4	<2	579	33.6	560	<5	25	16.43	.013	21	10.5	10	236	.01	.63	.01	.28	<4	3	314	7	<2	1	<1	8.9
1K16R 86	<2	211	821	1967	121	2	3	<2	33608	4.03	343	<10	<4	<2	333	19.8	102	<5	10	21.05	.003	12	4.6	53	102	< .01	.21	< .01	.08	<4	2	75	3	<2	1	<1	5.6
1K16R8	4	33	24	76	2.5	14	5	1842	5.63	101	<10	<4	13	200	7	8	<5	141	12.68	.091	35	85	84	2201	.17	6.24	.04	2.72	<4	44	12	25	4	2	9	9
1K16R8	3	15	10	91	9	18	7	1932	2.34	42	<10	<4	6	319	8	5	<5	110	12.74	.037	19	108	1.02	977	.12	3.52	.02	1.57	<4	28	2	12	3	1	4	5
RE 1K16 R88	3	15	9	88	< 5	19	7	1889	2.33	41	<10	<4	7	315	8	5	<5	111	12.52	.036	19	107	99	984	.12	3.52	.03	1.53	<4	28	2	11	3	1	4	< 2
1G10R8	<2	64	12	171	< 5	30	30	705	7.90	<5	<10	<4	2	951	< 4	<5	<5	285	5.29	.159	18	103	2.65	243	1.94	8.04	1.61	2.42	9	9	3	59	18	1	32	4
1G10R1	5	19	82	24	1.6	5	<2	322	1.12	83	<10	<4	9	122	< 4	<5	<5	43	.07	.050	34	103	16	352	.17	6.18	.21	5.91	4	11	2	7	3	<1	4	80.1
1G10R1	7	190	19	151	2.2	35	4	671	6.29	350	<10	<4	6	18	< 4	10	<5	158	.04	.187	17	180	87	266	.06	3.75	.02	.80	<4	11	<2	6	<2	1	7	23.6
1G10R13	2	37	11	160	< 5	66	23	1837	4.71	39	<10	<4	13	99	1.6	<5	<5	96	.25	.069	43	104	1.90	476	.51	8.23	.15	3.30	<4	3	3	13	14	2	13	9.4
1G10R14	5	160	<5	866	1.5	6	3	1530	2.26	10	<10	<4	<2	13	26.1	<5	<5	22	2.06	.012	<2	97	93	10	< .01	.12	.01	.02	<4	<2	<2	2	<2	<1	<1	41.3
1G10R18	3	197	108	58	3.3	15	9	1083	3.77	34	<10	<4	11	262	6	46	<5	46	1.33	.058	64	71	49	71	.21	9.30	1.93	4.47	<4	15	4	22	7	2	6	54.8
1G10R19	4	44	17	55	1.3	5	14	338	3.71	<5	<10	<4	17	239	< 4	<5	<5	39	1.58	.058	109	58	50	65	.32	7.18	2.12	2.92	<4	10	5	50	13	2	4	3.7
1G10R21	37	1849	9	101	5.0	36	79	1303	28.77	13	<10	<4	4	111	4.1	10	25	41	4.62	.030	31	43	84	19	10	1.78	12	.08	1893	15	46	20	4	2	3	87.7
STANDARD DST3/DS3	9	128	38	185	< 5	37	13	964	4.06	27	<10	<4	7	209	5.7	6	5	121	1.57	.096	26	274	1.00	1001	37	7.75	1.61	1.97	8	42	6	15	7	3	10	19.8

Sample type ROCK R150 60C Samples beginning RE are Reruns and RRE are Reject Reruns

Data FA

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Berdahl, Ron File # A103721 Page 1

Box 11250, Whitehorse YT Y1A 6N4 Submitted by: Ron 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 %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm	Au* ppb
SI	<2	4	13	14	< 5	<2	<2	20	11	20	<10	<4	<2	155	< 4	<5	<5	5	8 67	014	2	4	14	169	03	1 16	15 35	24	<4	91	3	4	<2	<1	<1	4 6
1K16R1	3	18	19	65	< 5	6	2	123	3 34	21	<10	<4	16	138	< 4	<5	<5	264	05	057	55	112	99	997	24	11 16	42 2	69	<4	63	2	11	4	2	20	2 4
1K16R13	4	44	21	158	< 5	54	16	453	7 50	64	<10	<4	9	69	< 4	6	5	251	10	055	29	112	1 74	26	22	7 95	25 1	80	<4	66	2	8	5	2	18	3 1
1K16R5	3	8	8	16	< 5	7	<2	53	1 15	83	<10	<4	5	36	< 4	<5	<5	19	03	010	15	89	02	65	06	96	60	07	<4	13	2	2	2	<1	<1	5 5
1K16R6	6	70	76	46	< 5	13	5	421	3 92	46	<10	<4	4	7	< 4	<5	6	16	05	016	7	145	61	66	03	1 19	03	05	<4	14	<2	2	<2	<1	2	5 9
1K16R7	4	16	7	33	< 5	16	4	398	1 02	41	<10	<4	2	41	5	<5	<5	28	2 29	008	13	201	11	407	03	87	01	33	<4	6	<2	12	<2	<1	4	1 0
1K16R8	4	33	9	54	5	13	5	657	2 47	122	<10	<4	9	210	4	6	<5	106	4 48	056	25	103	96	520	16	4 80	04 1	89	<4	25	2	8	4	1	5	3 6
1K16R16	3	42	9	531	< 5	54	7	139	20 67	28	<10	<4	6	41	< 4	<5	<5	106	04	062	23	93	20	226	15	3 24	20 1	24	<4	37	<2	9	5	1	5	2 5
1K16R20	4	39	42	226	< 5	53	14	384	7 49	147	<10	<4	12	137	< 4	<5	<5	168	1 05	049	32	125	76	2129	22	8 93	76 2	42	<4	35	6	12	6	2	13	1 2
1K16R26	3	14	18	109	< 5	28	5	324	1 89	82	<10	<4	4	16	5	<5	<5	123	07	031	16	117	13	189	11	2 52	03	81	<4	19	<2	4	3	<1	3	4 0
1K16R50	6	64	39	93	5	18	3	538	2 43	68	<10	<4	2	36	< 4	<5	<5	55	01	018	9	167	43	1426	06	1 88	03	56	<4	26	<2	5	<2	<1	7	1 8
1K16R52	<2	718	940	53	21 0	9	85	67	10 08	91821	<10	<4	4	18	2 6	510	133	57	01	029	36	86	21	16	04	2 32	07	77	<4	7	109	7	<2	1	12	178 0
1K16R53	4	27	10	27	< 5	6	<2	309	2 09	455	<10	<4	4	71	< 4	<5	<5	73	< 01	060	15	103	51	1031	10	3 06	04 1	03	<4	11	13	3	2	<1	8	2 6
1K16R54	2	167	34	36	3 0	7	<2	80	4 93	59249	<10	<4	2	98	2 2	226	34	29	05	290	<2	140	37	503	03	1 20	13	02	<4	17	34	<2	<2	<1	8	125 2
1K16R55	3	69	16	47	5	4	<2	177	4 25	249	<10	<4	3	147	< 4	39	<5	74	05	035	15	93	63	1607	08	3 48	22	57	<4	4	44	4	<2	1	8	4
1K16R56	2	56	219	130	1 4	8	2	88	3 76	1002	<10	<4	3	47	< 4	127	15	71	01	027	31	100	26	3718	08	3 39	09 1	15	<4	11	155	4	<2	1	8	9 1
RE 1K16R56	2	56	232	132	1 5	8	2	96	4 05	1040	<10	<4	3	48	< 4	131	16	78	01	026	31	104	28	3823	08	3 46	09 1	22	<4	11	160	5	<2	1	9	11 7
1K16R57	<2	338	73	25	4 5	21	99	29	17 02	99999	<10	<4	<2	23	1 3	856	43	12	01	102	<2	47	09	3	01	35	03	01	<4	9	18	<2	<2	<1	5	326 0
1K16R58	4	24	6	90	< 5	32	3	155	1 91	733	<10	<4	3	21	< 4	6	<5	106	01	030	12	207	20	1875	10	2 17	03 1	01	<4	27	2	8	2	1	4	7 0
1K16R59	8	86	8	158	< 5	32	6	121	3 08	476	<10	<4	2	92	< 4	6	<5	93	03	095	12	199	27	459	11	2 43	03	81	<4	23	<2	9	2	1	6	3 5
1K16R64	3	36	6	27	5	24	<2	217	1 12	167	<10	<4	<2	40	< 4	12	<5	25	< 01	017	2	108	14	797	02	78	02	13	<4	5	<2	<2	<2	<1	2	3 6
1K16R65	21	142	135	297	5	73	14	301	8 54	229	<10	<4	4	34	5	5	<5	78	< 01	042	12	100	11	1971	08	2 49	02	89	<4	23	<2	7	2	1	5	3 9
1K16R67	5	18	345	1123	5 6	7	4	1970	3 45	138	<10	<4	9	60	28 0	7	9	48	1 02	064	10	101	93	345	17	5 33	17 1	47	<4	25	56	9	3	1	7	2 5
1K16R68	65	36	1644	923	31 3	2	3	647	5 86	277	<10	<4	8	33	7 2	48	71	50	09	041	8	95	94	570	10	4 02	14 1	08	<4	19	56	4	2	<1	8	4 0
1K16R69	12	44	942	1396	18 8	7	4	749	7 25	353	<10	<4	8	32	15 6	21	24	63	10	053	10	139	95	636	13	4 68	13 1	49	<4	26	65	5	3	<1	9	7 3
1K16R70	3	81	43	197	1 0	14	9	599	7 49	37	<10	<4	6	98	1 2	24	<5	93	1 70	159	25	123	2 40	32	33	4 50	66 1	28	<4	29	70	21	7	1	8	1 6
1K16R71	5	56	10	35	< 5	8	3	208	7 35	27	<10	<4	6	50	< 4	10	<5	74	28	112	15	176	95	229	25	3 16	19	78	<4	29	29	9	6	1	5	1 9
1K16R72	8	33	9	34	< 5	23	<2	55	1 50	58	<10	<4	3	107	< 4	<5	<5	150	01	010	17	152	28	6753	09	1 91	07	67	<4	38	<2	14	2	<1	6	4 3
1K16R73	8	80	30459	5438	288 0	29	20	270	6 05	7041	<10	<4	3	38	99 5	318	147	119	19	096	7	123	64	<1	07	1 51	11	06	<4	22	74	5	2	<1	5	112 9
1K16R74	2	232	166	287	4 5	111	70	1042	27 99	63	<10	<4	7	35	9	15	8	106	56	206	28	42	3 28	7	18	3 98	08	44	<4	38	2	23	10	1	10	44 1
1K16R75	27	124	4126	1937	8 6	49	176	89	10 97	35004	<10	<4	3	19	25 3	2780	<5	94	04	038	15	113	34	22	06	1 20	09	35	<4	27	37	4	<2	<1	3	161 8
1K16R76	4	94	58	70	1 7	22	24	598	4 97	15622	<10	<4	2	53	4	117	6	100	02	028	3	100	45	36	09	3 32	09 1	20	<4	15	25	6	2	1	8	200 6
1K16R80	2	52	24	343	8	86	14	1187	32 97	247	<10	<4	4	34	7	7	<5	151	12	036	52	63	55	816	05	2 19	01	06	<4	29	<2	34	<2	<1	15	5 2
1K16R81	9	32	13	133	< 5	57	18	1773	7 61	72	<10	<4	6	2267	3 3	<5	<5	78	14 08	091	36	31	4 26	1966	13	2 52	42	29	<4	46	<2	37	24	<1	15	4 4
STANDARD DST3/DS3	10	126	41	187	< 5	43	15	1082	3 92	28	<10	<4	7	228	5 7	7	5	145	1 56	102	29	292	94	1068	39	7 39	2 05 1	99	9	45	6	15	8	3	10	18 3

GROUP 1E - 0.25 GM SAMPLE DIGESTED WITH HCLO4-HNO3-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM, MO, CO, CD, SB, BI, TH & U = 4,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES - SAMPLE TYPE ROCK R150 60C AU* IGNITION BY ACID LEACHED, ANALYSIS BY ICP-MS. (10 gm)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: OCT 19 2001 **DATE REPORT MAILED:** Nov 1/01 **SIGNED BY.....** D TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS

Data A FA ___

ACME ANALYTICAL LABORATORIES LTD. (ISO 9002 Accredited Co.)
852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Berdahl, Ron File # A103722

Box 11250, Whitehorse YT Y1A 6N4 Submitted by Ron 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 %	Al %	Na %	K %	W ppm	Zr ppm	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm	Au* ppb
G-1	<2	3	20	51	< 5	4	5	732	2 28	<5	<10	<4	8	649	< 4	<5	<5	49	2 50	081	29	9	66	967	24	8 44	2.11	3 03	4	8	<2	17	16	2	5	< 2
1K16D4	2	36	15	84	< 5	21	10	501	2 67	8	<10	<4	9	267	1 1	<5	<5	87	1 56	084	25	42	69	1191	24	6 72	.91	1 62	<4	66	<2	12	5	2	8	3 6
1K16D11	3	45	71	465	1 1	60	14	1250	4 43	371	<10	<4	21	76	3 1	18	<5	398	7 99	226	58	116	86	3534	33	11 01	.03	4 67	<4	127	60	32	8	2	19	5 8
1K16D13	12	218	335	667	6 9	104	27	2097	9 63	620	<10	<4	18	142	3 8	28	<5	159	1 77	229	39	89	1 41	255	17	8 71	.07	2 16	<4	58	64	26	4	1	12	10 7
1K16D14	3	86	181	345	1 7	82	41	2303	7 38	1091	<10	<4	20	253	2 3	27	<5	122	4 70	073	54	73	1 40	2673	20	8 82	29	3 02	<4	53	33	22	5	1	12	8 5
1K16D15	<2	62	27	177	< 5	58	35	1413	6 65	395	<10	<4	17	308	7	5	<5	68	4 72	051	41	54	2 46	1987	24	6 58	22	1.40	<4	31	2	21	6	2	9	7 1
RE 1K16D15	<2	61	27	175	< 5	57	36	1399	6 91	399	<10	<4	17	303	6	5	<5	70	4 70	046	40	54	2 27	1946	23	6 16	20	1 39	<4	31	2	21	6	2	9	7 0
1K16D18	<2	19	12	63	< 5	7	9	450	2 59	<5	<10	<4	5	580	< 4	<5	<5	72	2 51	057	18	11	95	775	28	8 80	2 50	2 08	<4	111	<2	9	4	1	5	4
1K16D25	2	43	19	118	< 5	18	6	191	3 01	20	<10	<4	8	128	< 4	<5	<5	109	48	054	31	47	51	1014	28	6 39	60	1 46	<4	64	2	10	8	1	6	1 2
1K16D60	9	71	38	706	1 8	122	13	1964	2 72	27	<10	<4	7	171	12 2	7	<5	231	82	.239	22	56	59	1059	20	6 40	53	1 47	<4	50	2	23	4	2	9	5 0
1K16D61	3	32	78	113	< 5	23	7	447	3 05	24	<10	<4	8	192	4	<5	<5	117	88	107	27	53	65	1327	29	6 12	.94	1 72	<4	68	2	12	7	2	8	3 0
1K16D62	<2	35	167	176	2 4	15	10	676	4 11	14	<10	<4	13	58	1 3	14	<5	115	18	071	28	13	92	2590	39	12 49	02	1 13	13	97	7	20	6	1	22	5 6
1K16D63	<2	44	17	213	< 5	73	8	337	4 32	7	<10	<4	13	81	7	5	<5	117	17	075	35	18	66	1286	50	9 84	15	1 77	4	113	<2	26	7	2	18	2 4
1G10D15	2	242	24	91	3 9	6	3	412	18 22	276	<10	<4	6	144	< 4	<5	5	85	1 77	.111	25	72	1 57	68	44	3 80	.34	2 65	<4	10	5	7	7	1	10	66 9
STANDARD D	9	128	38	185	< 5	37	13	964	4 06	27	<10	<4	7	209	5 7	6	5	121	1 57	096	26	274	1 00	1001	37	7 75	1.61	1 97	8	42	6	15	7	3	10	19 8

Standard is STANDARD DST3/DS3

GROUP 1E - 0 25 GM SAMPLE DIGESTED WITH HCLO4-HNO3-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM, MO, CO, CD, SB, BI, TH & U = 4,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES - SAMPLE TYPE SOIL SS80 60C AU* BY ACID LEACHED, ANALYSIS BY ICP-MS (10 gm)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

DATE RECEIVED: OCT 19 2001 **DATE REPORT MAILED:** Nov 1/01 **SIGNED BY.** C. Leong D TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS

Data ✓ FA ___

YUKON MINFILE
STANDARD REPORT
CANADA YUKON ECONOMIC DEVELOPMENT PLAN - MINERAL RESOURCES SUBAGREEMENT

105K 090 SOLO
Other Names ()
Deposit Types VEIN

NtsMaps TAY RIVER

Status SHOWING
Commodities. SILVER, LEAD, ANTIMONY

Location: 62 58'42"N, 132 10'19"W

CAPSULE WORK HISTORY

Staked as Solo cl (Y31507) in Oct/68 by Hudson Bay Mg, which explored with grid soil sampling and mapping in 1968-69. Restaked in August/90 as Rush claims (YB03736) by Noranda Exploration Co. Ltd.

SOPHIA - AURORA Breakup

CAPSULE GEOLOGY

Galena, stibnite, boulangerite and sphalerite occur in fractures up to 20 cm wide cutting a fault slice of Dev-Miss Earn Group and Ord-Sil Road River Group elastic sediments which are bounded to the SW by Proterozoic and Lower Cambrian clastics and Cambro-Ordovician Rabbitkettle Formation limestone. Small granitic plutons occur 1 km NE and 5 km SE. Selected samples assayed 3017 g/t Ag, 75% Pb, 0 2% Zn, 0.11% Sn, 0.9% Sb and 665 g/t Ag, 34.3% Pb, 6.6% Zn, 18% Sb and 0.14% Sn.

BIBLIOGRAPHY

MIR, 1969-70, pp 97-98
ER, Nov/69 by K.T McIntosh & L R Larson for Hudson Bay Mg

(seen in PHOTO)

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S). Rockslide
MINFILE #. 115G 071
MAJOR COMMODITIES: Cu
MINOR COMMODITIES: Mo,W,F
TECTONIC ELEMENT: Nisling Range Intrusions
NTS MAP SHEET. 115 G 8
LATITUDE· 61°27'30"N
LONGITUDE. 138°08'02"W
DEPOSIT TYPE: Porphyry
STATUS: Drilled Prospect

CLAIMS (PREVIOUS AND CURRENT)

NORTHERN, A, B, ROXY, TOOT, JUBA

WORK HISTORY

Staked as Northern cl (60487) in Aug/51 by M de Mers, who did some hand trenching in 1952 Restaked as A, B, etc cl (Y52235) in Jun/70 by Charta ML These claims were optioned until Feb/72 by Phelps Dodge, which conducted mapping and geochem surveys and drilled one hole (abandoned at 66 8 m) in 1970 and 2 holes (305 7 m) in 1971

R G Hilker added the Roxy cl (Y75843) in Jul/73, performed hand trenching in 1976, restaked as Toot cl (YA48227) in Sep/79 and hand trenched in 1980 J W Kerr staked JUBA cl (YA74479) 1 6 km to the west in Dec/81

GEOLOGY

The claims are underlain by quartz monzonite which is cut by zones of quartz porphyry A fluorite occurrence was noted by the GSC about 2 4 km to the west and patchy fluorite is common in the area The holes were drilled to test an area geochemically anomalous in copper, molybdenum and tungsten on the fringe of a strong gossan

REFERENCES

GEOLOGICAL SURVEY OF CANADA Memoir 340, p 112-113

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S). Talbot
MINFILE # 115G 069
MAJOR COMMODITIES· Cu
MINOR COMMODITIES -
TECTONIC ELEMENT Nisling Terrane

NTS MAP SHEET 115 G 10
LATITUDE 61°31'34"N
LONGITUDE 138°32'46"W
DEPOSIT TYPE Porphyry?
STATUS· Showing

CLAIMS (PREVIOUS AND CURRENT)

PUNK, ROB, ROC, THUNDER

WORK HISTORY

Staked as Punk cl (Y52036) in May/70 by W Hinnek and restaked as Rob cl (Y60781) by R G Hilker, who explored by hand trenching Restaked by J Carson as Roc cl (Y78085) in Jan/74, as Venus cl (Y93385) in Apr/75 with O Milliard, and as Thunder cl (YA48864) in May/80

GEOLOGY

Claims are underlain by a contact between a roof pendant of metasedimentary rocks with limy horizons and the Ruby Range Batholith Minor amounts of pyrite and chalcopyrite reportedly occur in the intrusive rocks

TALBOT ARM - project #1

S - Silt
R - rock
D - soil

Rock & Soil Descriptions

[redacted] - 1G10 prefix

1G10R1 - biotite schist w/ 15-20% disseminated sulfides (pyrite +/or pyrhotite) schist has purplish hue

1G10R2 - rusty grey quartz with disseminated sulfide - from intrusive/sed contact area

1G10R3 - orange quartz

1G10R4 - limonite schist

1G10R8 - rusty schist

1G10R11 - grey quartz w/ yellow staining

~~1G10R11 - limonite skale/sediment breccia + quartz~~

1G10R12 - limonite skale/sediment breccia w/ quartz

1G10R13 - bright yellow stained black silicified schist

1G10R14 - rusty to limonite coated grey quartzite w/ minor disseminated sulfides

1G10D15 - Soil - "so orange it glows"

1G10R18 - intrusive dyke (in sed) w/ pyrhotite

1G10R19 - quartz vein w/ magnetite and/or pyrhotite in altered granite

Silt samples 1G10S [redacted] locations are mapped

PROJECT #2

R - rock
S - silt
D - soil

Green project 1K16 prefix

1K16R1- rusty black shale w/ rotted pyrite cubes
R2- rusty " " w/ 1cm pyrite rich (to 40%) bands - cubic pyrite not banded
D-4 soil from east end of 280° fault
R-5 vuggy limonitic light grey mini crystaline rock w/ eroded pyrite cubes
R-6- rusty quartz w/ aphanitic mafic inclusions
~~R-7- qtz from 1m wide vein @ Scott kill zone~~
R-8- red stained orange ~~calcite~~ silica rich rock w/ calcite veins, - some pyrite w/ calcite veins
R-7 grey quartz e/w striking vein - w/ yellow/reddish limonite ssublette thrount
R-9 - ~~large~~ 1" calcite crystal w/ limonite
R-10 - breccia
D-11 - talus soil 30% white clay
S-12 - Strm silt @ Scott kill zone
D-13 - ~~[illegible]~~ 6" of yellow/white/orange clay under 1' overburden @ scott kill zone,
D-14 - 10' composite soil 15m north of main zone
D-15 - ~~sp~~ soil - 15m south of #D-14
R-16 - very rusty non calcareous conglomerate
S-17 - stream sed - Atlas creek - zinc moss present
D-18 - 18" soil on 280° fault - composed of white silt & orange silty clay to 30% ± magnetite in some of white silts (high Na in analysis)
S-19 - stream silt westerly end of 280° fault
R-20 - Fe altered conglomerate - rusty matrix
S-21 ~~R-21~~ strm silt - red rock creek 2m wide - lot of water
S-32 - strm silt ~~sed~~ @ lost rest creeklet draining 280° fault
S-22 - strm silt r. limit pond
S-23 - " " l "
S-24 - " " north drainage into jawbone lake thru black mud stone - ~~[illegible]~~ minor rust on surface sed.

D-25 - soil from rusty conglomerate west of jawbone lake

R-26 - quartz w/ pyrite & limonite & manganese, possibly orthogneiss - assoc w/ ~~schist~~, siliceous shale/quartzite/intrusive contact

R-#83 - 'painted' quartzite w/ minor limo, trace vugs - colors range from white, grey, pink, green, tan, purple, orange

R-#84 limonitic calcitic cemented breccia

R-85 float - 1" thick chalco rich (disseminated) siliceous (?) ~~sandy~~ "white/black" (paper like) rock ± smithsonite(?)(tan) ± galena, malachite, limonite.

R-86 flt - grungy beige rock (smithsonite?)

R-87 flt - limonitic shale w/ tr. calcite veins

#88 bdrk - limonite w/ 2" calcite vein

R-rock
D soil
S-silt

Project #3

Sample Description Sophia 1K16 prefix

1K16R50 - white quartz in platey grey argillite w/limonite - ~~zone~~ xeno crysts of shale w/trace sulfides

51 - black chert w/ quartz veinlets cross hatched throughout, trace sulfides

52 - galena in pale yellow aphanitic host - galena in "banded parts"

53 - orange quartz conglomerate

54 - vuggy grey/green rock, skarn like w/ limonitic bands

55 - limonitic breccia w/ manganese staining

56 - limonitic quartz, minor vugs, manganese

57 - galena bands in light green aphanitic rock, pyrite.

58 - rusty chert pebble conglomerate w/ limonite and sub parallel quartz veinlets < 1 mm.

59 - rusty conglomerate float

D61 - soil - host rocks conglomerate/altered (orange) conglomerate

D-62 - orange soil from 300m N-S fault

D-63 - orange soil at limestone/conglomerate contact

R-64 - epithermal quartz in shale, w/trace sulphides + limonite

R-65 - altered soil/conglomerate, rusty w/ cubic vugs

R-66 - silicic (?) manganocrete conglomerate

R-67 - vuggy metaliferous to limonitic light green aphanitic rock in orange granodiorite

R-68 - granodiorite, orange w/ hair line sulfide veinlets + trace disseminated steel color pyrite

R-69 "oxidized" granodiorite

R-70 hornsfel, rusty ~~on~~ on fractures

R-71 quartz rich hornsfel w/ trace sulfide

R-72 - black argillite w/ multi directional white quartz veins

R-73 - 2" cube of arsen. galena, pyrite, quartz

R-74 - massive to semi massive pyrrhotite in meta sedz

R-75 - float quartz w/ arseno pyrite and stibnite

R-76 - yellowish stained oxidez / ~~pt~~ pyrite etal

S-77 ~~-79~~ - stream silt sample - 2 m wide 6" deep

~~S-77~~ shale (some green) diorite

S-78 shale bottom

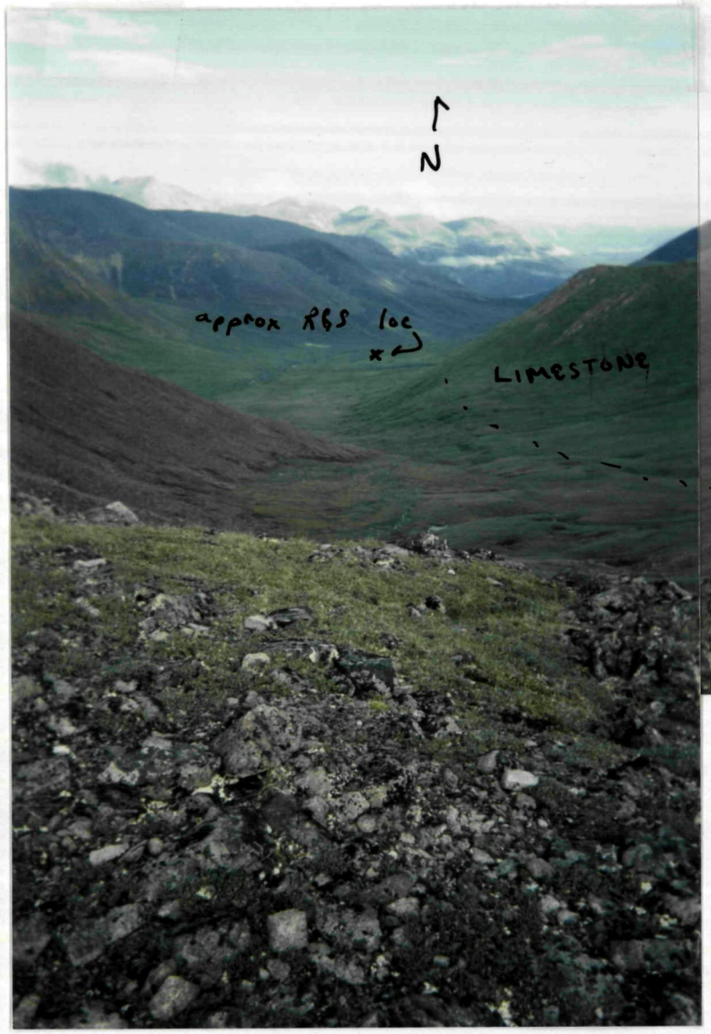
S-79 yellow orange coating on creek bottom, 1m wide

R-80 limonite rock w/ quartz veins

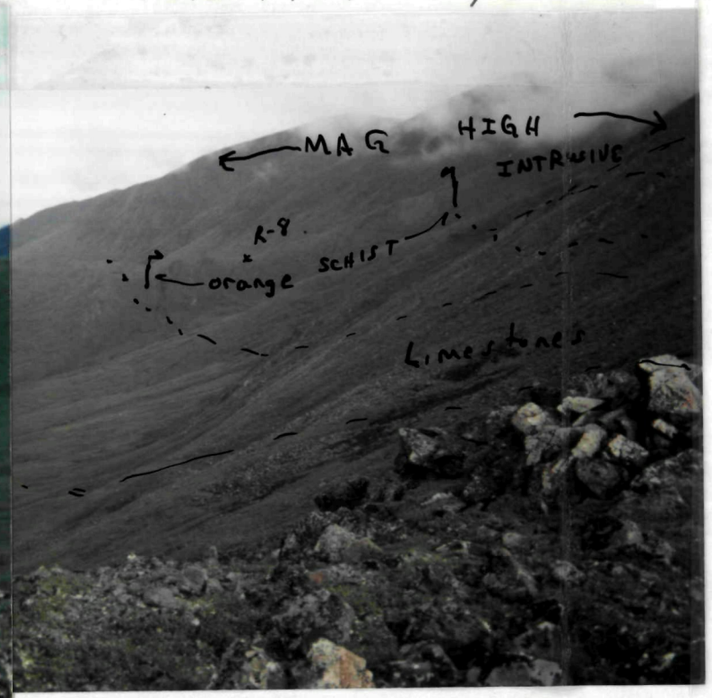
R-81 - at contact of quartz carbonate & graphitic shale limonite rock w/ graphite & quartz veins

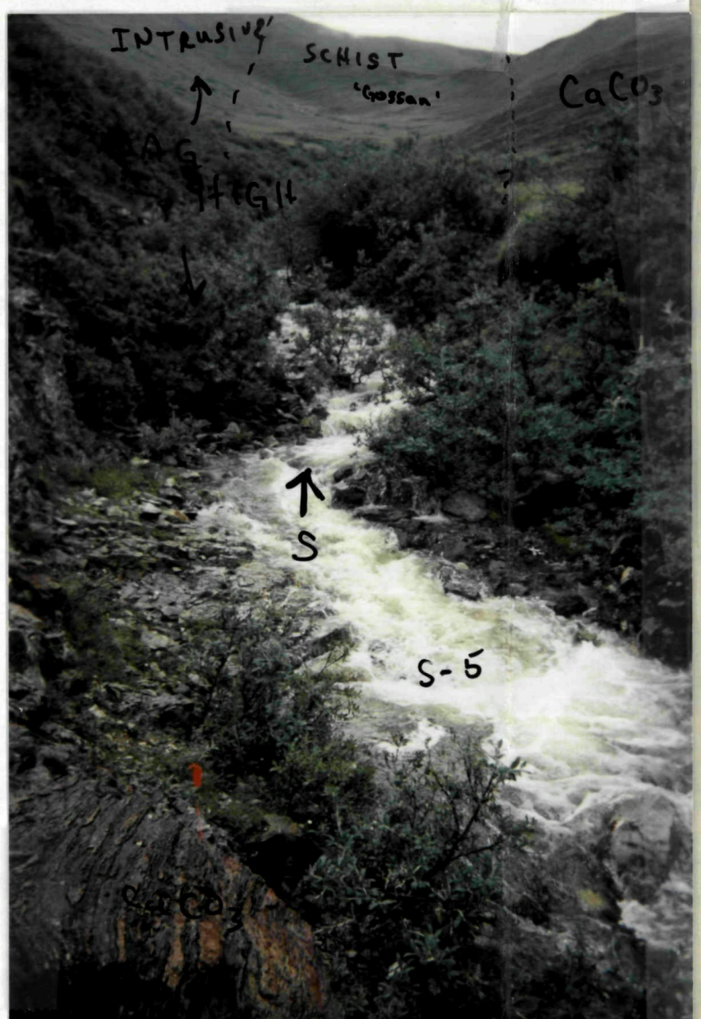
R-82 - quartzite w/ scorodite & limonite

TAIBOT ARM 1 of 3



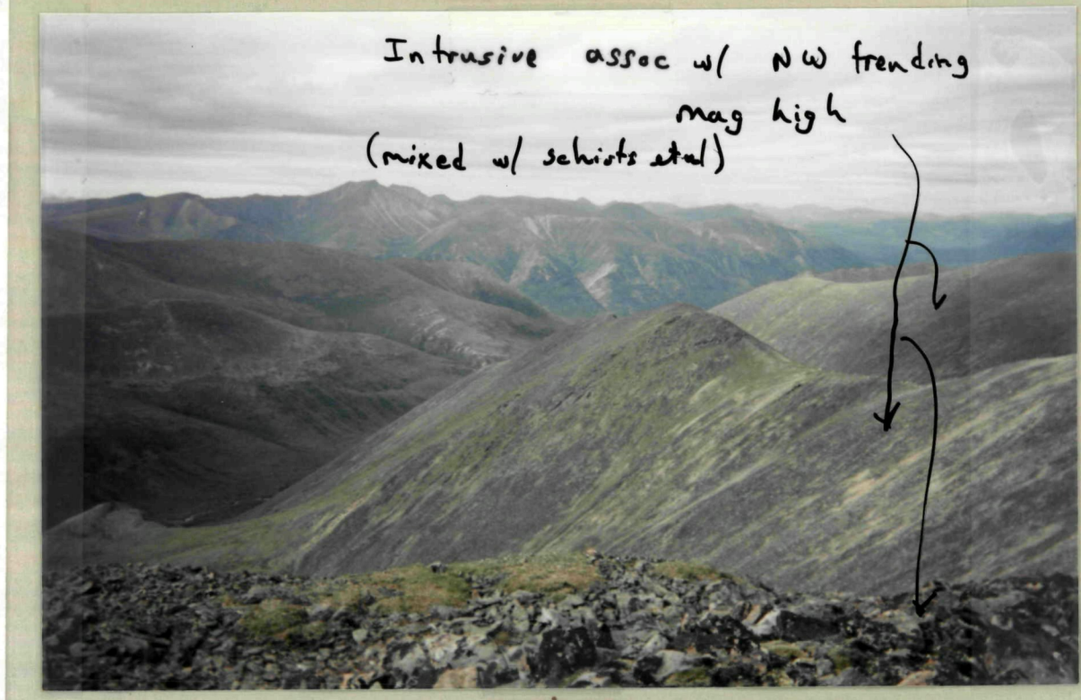
Ⓐ FROM "PASS" LOOKING NORTH





Ⓑ ⟶

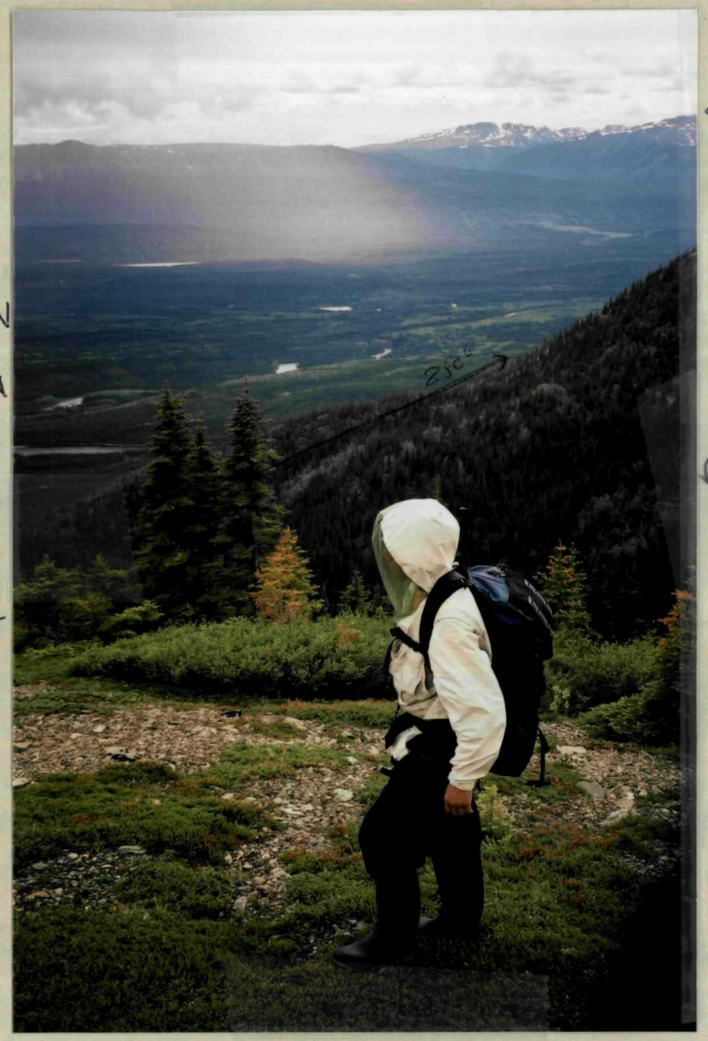
Looking South
from sample pt. S-5
to orange schist,
(the same 'orange schist' shown in photo 'A' above, opposite side of ridge)



Ⓒ Ridge top w/ garnet in intrusive, some ~~pho~~ porphoritic rock, albite dikes -
(same ridge as is shown in photo 'A' engulfed in clouds)

TALBOT
1/3

GRpdt / Scott 2 of 3



Scott Area (D)

Scott claims 1-4

Testing for metal toxicity in creek draining kill zone

GRN 293

GREEN / SCOTT 3 of 3

Bug protection →

Jawbone Lake camp - why am I doing this ?

ONLY SHOT OF SOPHIA PROJECT
Someone forgot film, Looking out into conglomerate - only area w/o alteration.

Beauty on a grey weathering mudstone - Headwaters of Teddy Crk
'the reason I prospect'

METAL Prices Down? - Always a local timber market

ARN 343

(A)

SCOTT "KILL ZONE"

looking NW

1000' meter graphite shale - striking NW / X cut by mag High

Silt sample S-17 (1+% Zn) drainage just west of 'Echo Creek' (kill zone drainage)

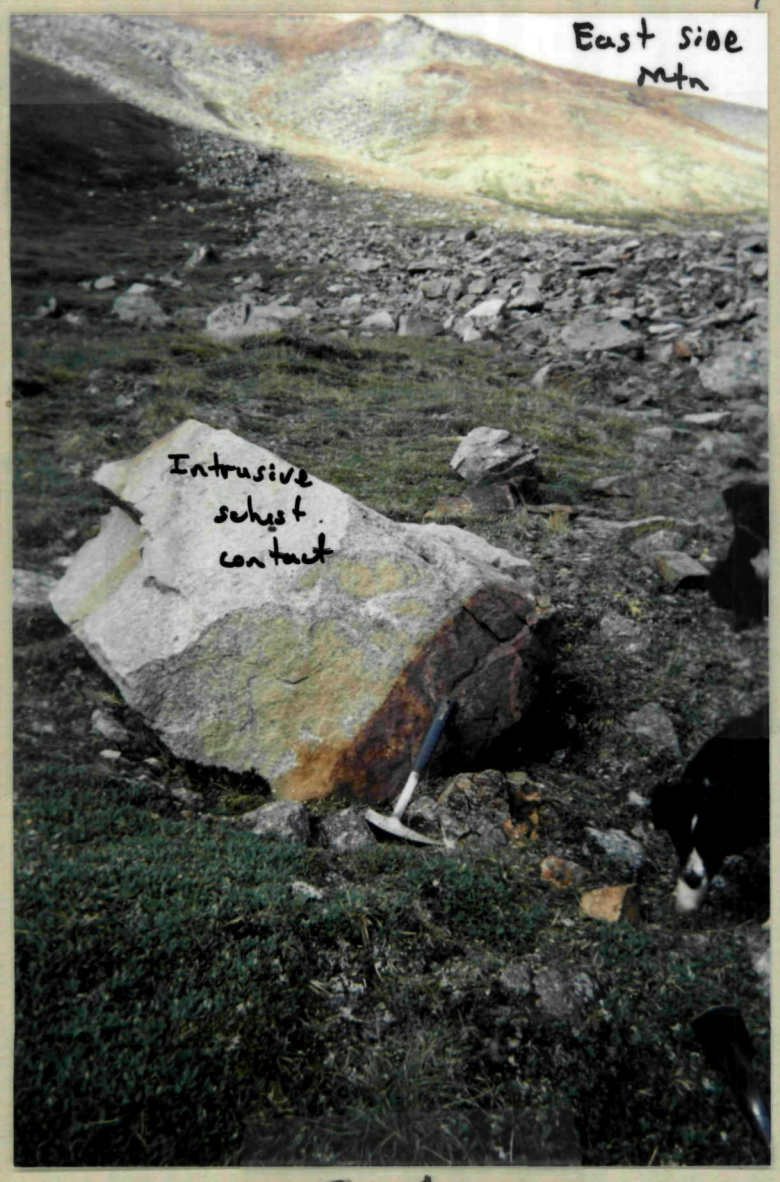
280° Fault immediately to left of picture

(B) Typical bush in canyons / slopes - site of S-17 sample -

(C) Green project (a) typical non swamp veg - near R-26

RRN 173

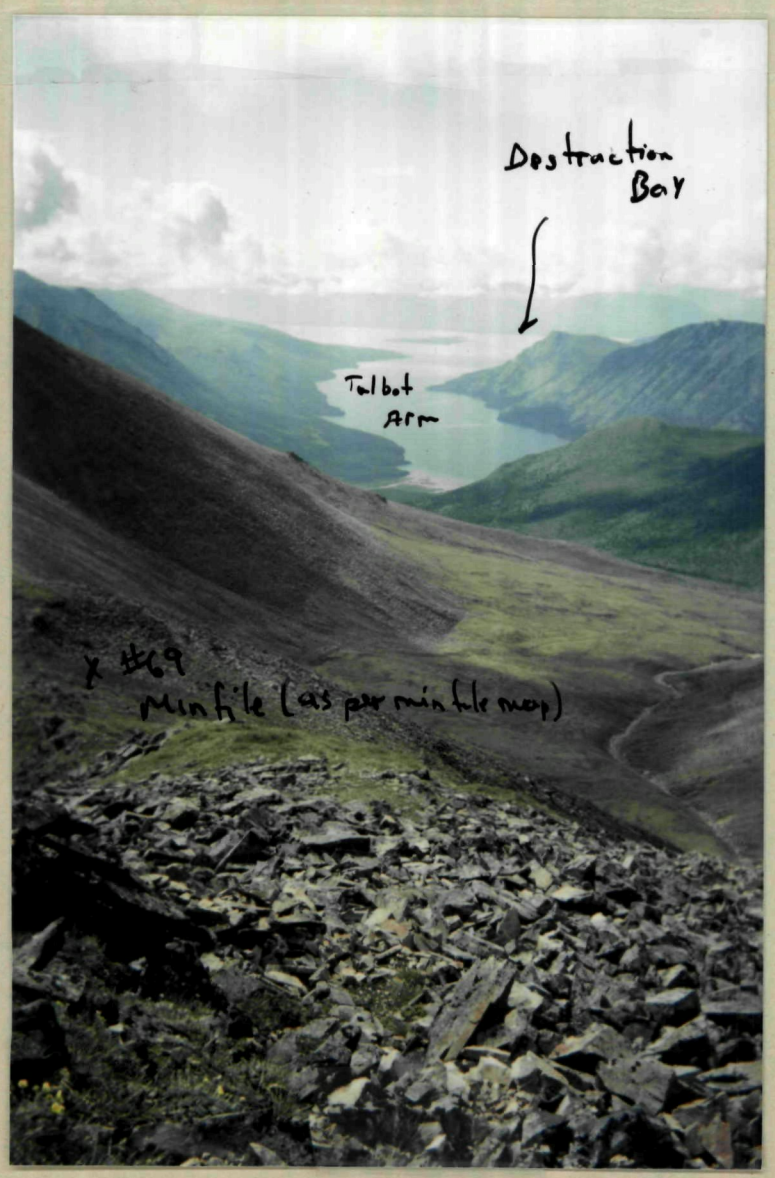
TALBOT 3 of 3



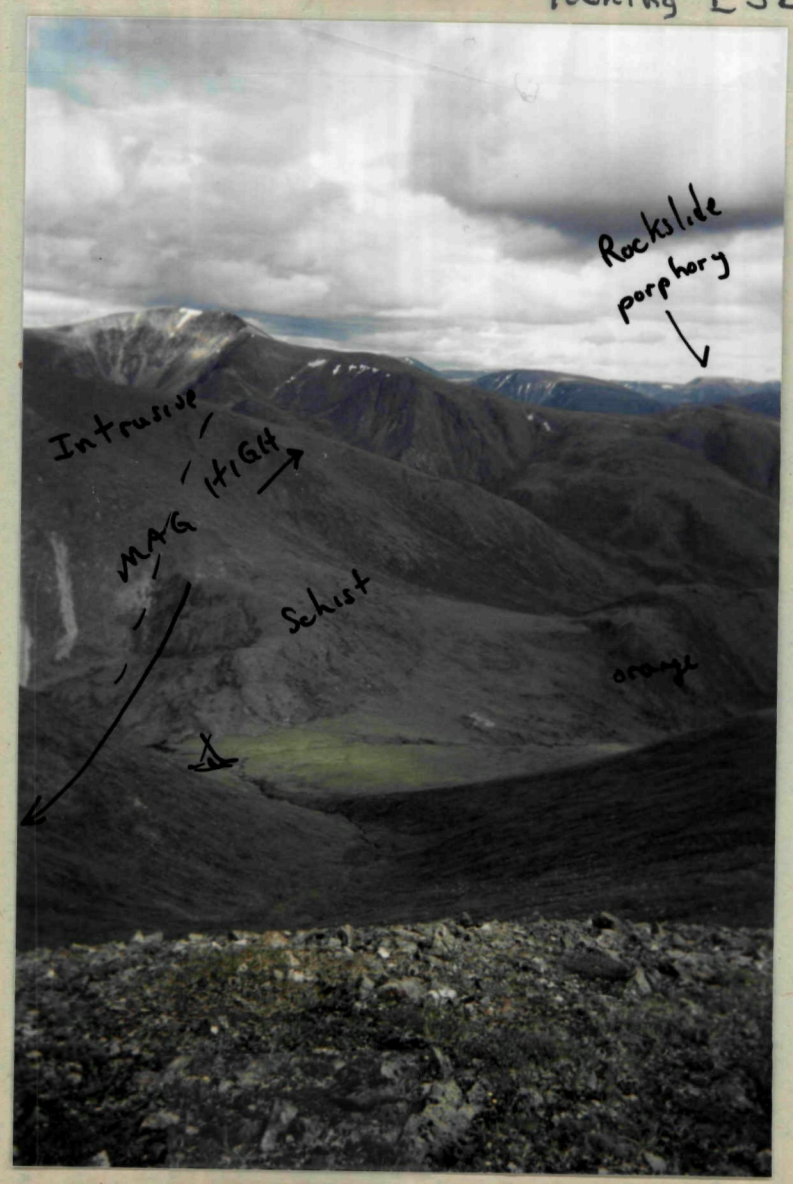
(G) ↑

(H) ↷

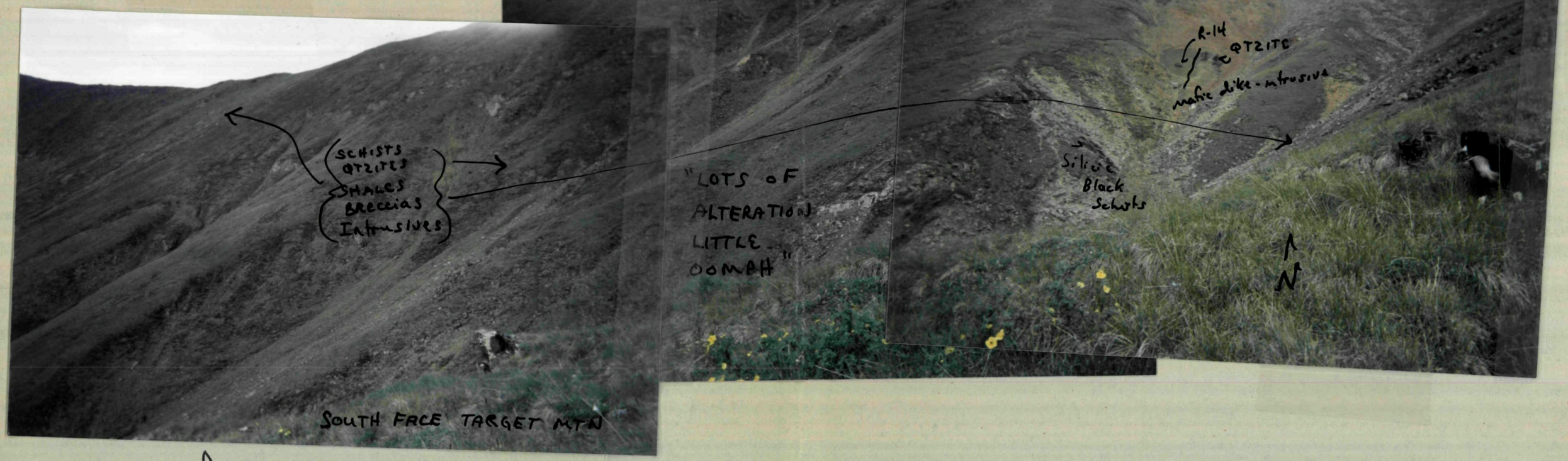
(I) ↓ looking down TALBOT ARM (180° from picture E)



(J) looking ESE

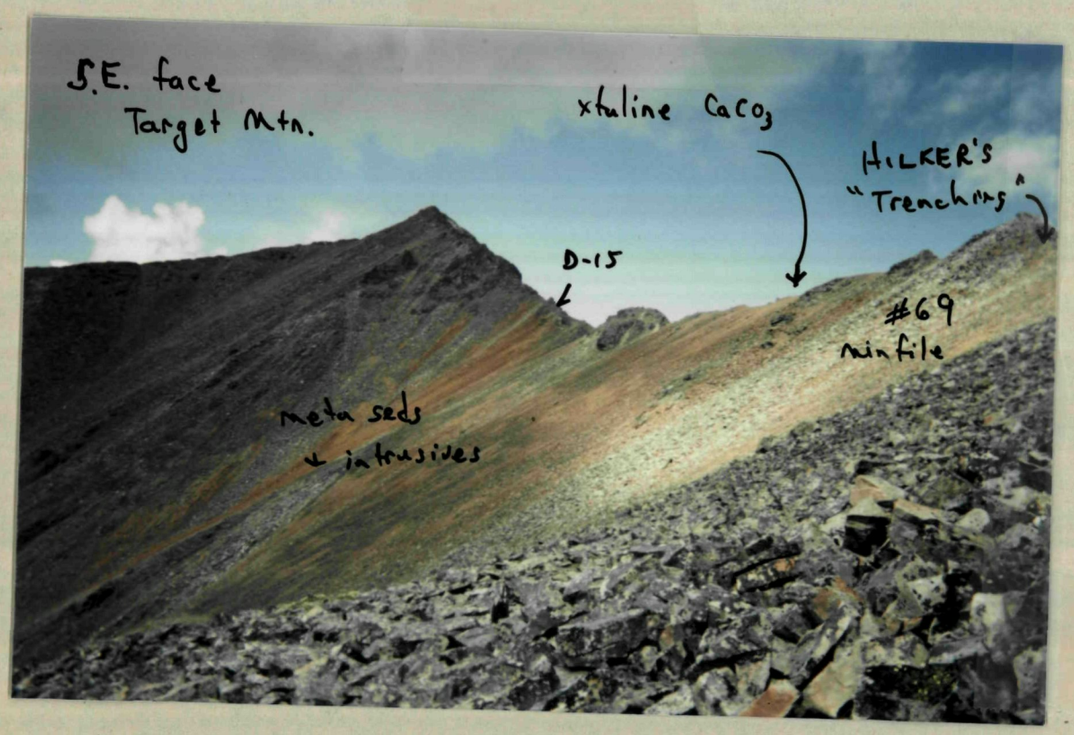


TALBOT 293



(D)

(E)



(F)

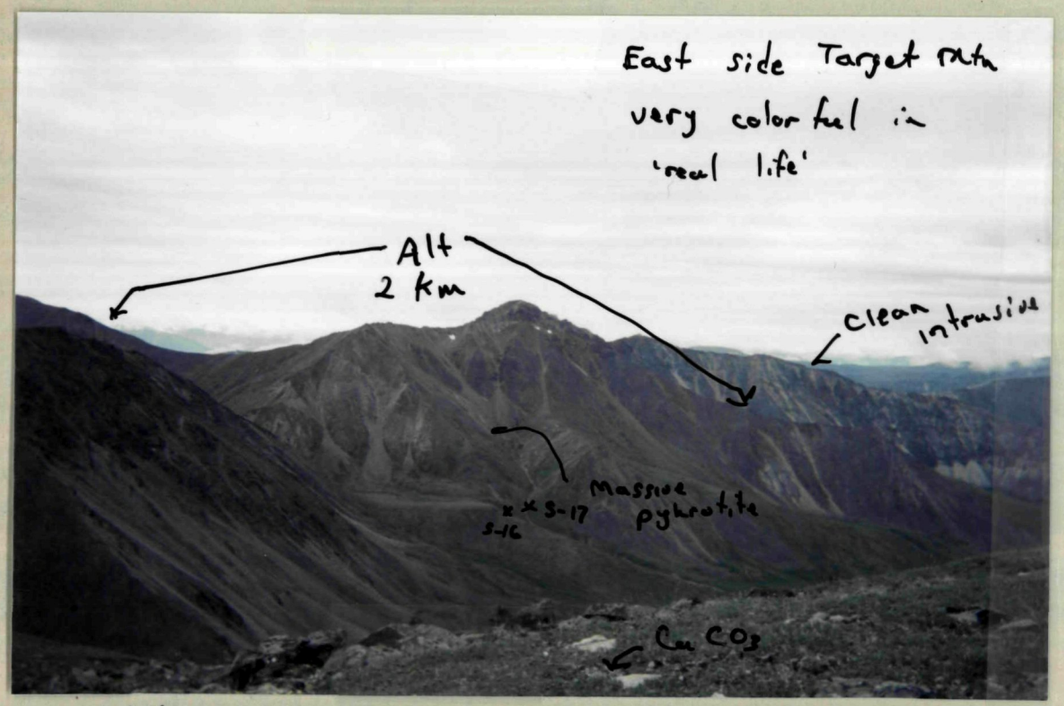


photo from east of pass

TALBOT
2 of 3

C

R-84, 85, 86, 87, 88
R-7, 8, 9, 10, 11
S-12, D-13, 14, 15

from SCOTT

KILL ZONE

6km to ANDREW

GOSSAN

biotite rx rocks

Macaulay Shale

R-6

R-5

UTM 69 7 3000

1 N

Green b

1:12,500

SCOTT

105K 16

R-20
S-21

S-19

R-83

D-18

S-17

S-3

R-3

SHALE

D-4 280°

FAULT

SHALE

CALC/SILICATE

RED ROCK CK

SHALE

R-16

rusty conglomerate

S-2

R-1

800

ATLAS CRK

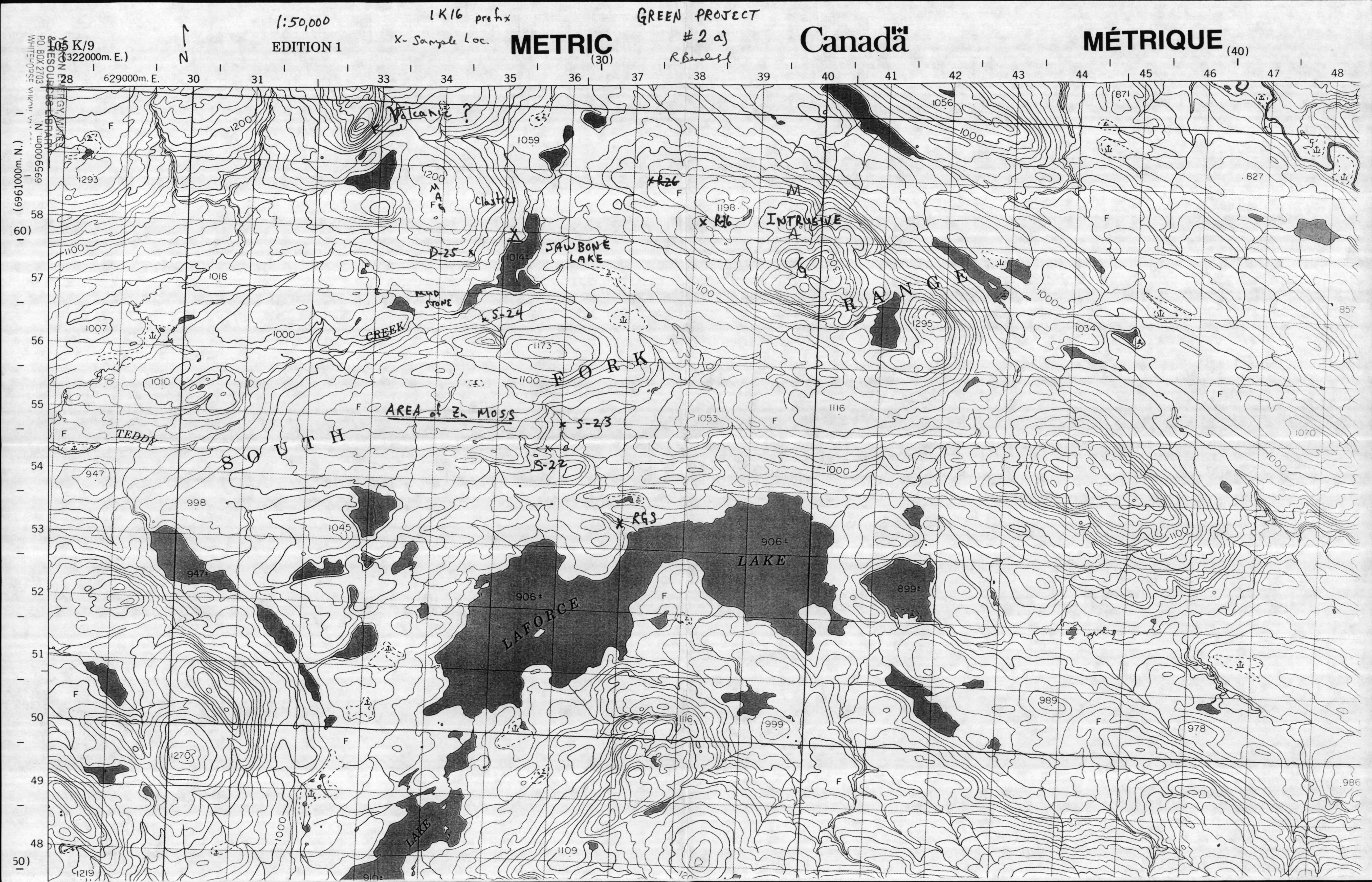
ECHO CRK

SLUMPS

80% LAKE

6380000

- INTRUSIVE
- Fe Alteration
- Graphitic Shale
- Earn grp mixed
- MAG HIGH
- KILL ZONE
- sample location
- fault
- claim posts



1:50,000
1K16 prefix
X- Sample Loc.
GREEN PROJECT
#2 aj
R Berdahl
105 K/9
EDITION 1
METRIC
Canada
MÉTRIQUE
Volcanic ?
Clastics
INTRUSIVE
D-25
JAWBONE LAKE
MUD STONE
S-24
CREEK
SOUTH FORK RANGE
AREA of Zn MOSS
S-23
S-22
TEDDY
RGS
LAFORCE LAKE
LAKE

SOPHIA PROJECT
Area North of
105K16-6

105 K-16

1

N

1:30,000

from Atlas Exploration

AR#019912

SOPHIA 1-4

RGS17

RGS 14

RGS13

RGS12

S-79

S-77

S-78

R-80

R-81

SHALES

11

3d

3c

3f

3a

3b

1a

1b

1c

4000

4500

5000

3500

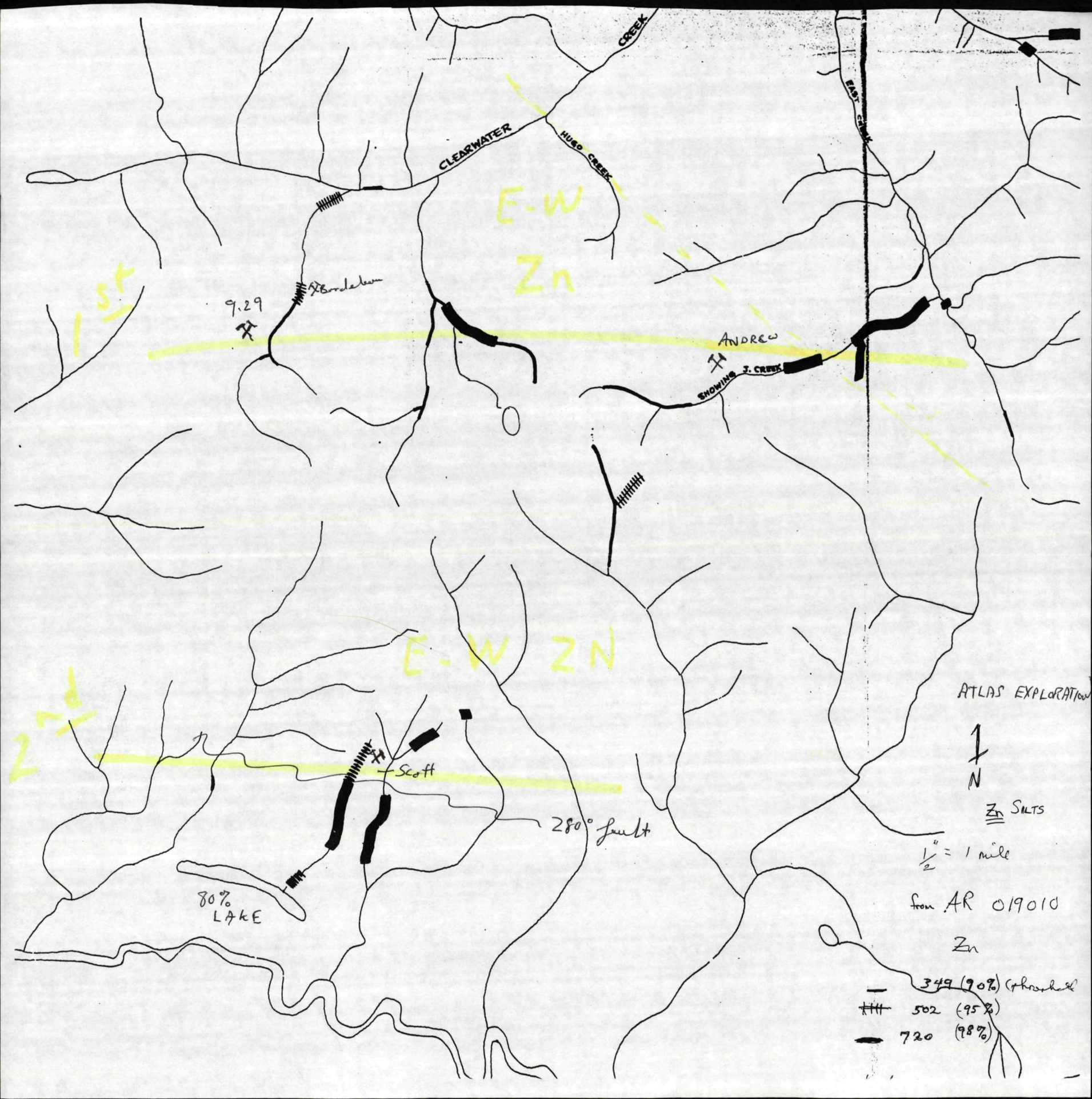
LEGEND:

SOPHIA PROJECT
- Area North of Map 105K16-6 -

CRETACEOUS	11	GRANITIC INTRUSIVES
ORDOVICIAN-DEVONIAN	3f	GRAY BEDDED CHERT
	3e	ALKALINE BASALT
	3d	CHERT PEBBLE CONGLOMERATE, MINOR QUARTZITE
	3c	PHYLLITE
	3b	DOLOMITE, CALCAREOUS PHYLLITE, MINOR LIMESTONE
	3a	BLACK SLATE - BLACK BEDDED CHERT, ARGILLITE, GREYWACHE.
PROTEROZOIC	1c	VARICOLORED PHYLLITE, MICA SCHIST
	1b	LIMESTONE
	1a	QUARTZITE, FELDSPATHIC QUARTZ SANDSTONE MINOR - MICA SCHIST.

SYMBOLS:

- CONTACTS
- INFERRED FAULT (ARROW, INFERRED THRUST FAULTS)
- FOLIATION BEDDING ALTITUDE
- DRAGFOLD
- SHEAR ZONE
- QUARTZ VEIN
- (ORANGE) RUSTY ALTERATION
- X (RED) GOSSAN
- X (BLACK) MINERAL SHOWING


CREEK
EAST CREEK
CLEARWATER
HUGO CREEK
E-W
Zn
1st
9.29
Bordelon
ANDREW
SHOWING
J. CREEK
E-W ZN
2nd
Scott
280° fault
80%
LAKE
ATLAS EXPLORATION
N
Zn SILTS
1/2" = 1 mile
from AR 019010
Zn
349 (90%) (phreathed
502 (95%)
720 (98%)

TALBOT ARM PROJECT

115 G/9 + 10

1: 25,000

N

5 Ruby Range Granodiorite

3 Meta Seds

3a Limestones

⊗ Massive pyrrhotite

G - Gossan / Alteration

// - quartz veins •69 minfile k

X - sample sites

Gs - orange schist

MAG High

Ⓐ - pictures

ANG FT

4500 3900 4700 4800 5000 6500 5500 5300 6300000 UTM 68 24000 UTM

Tourmaline

Albite DYKES

Gs

S-9 S-26 S-5 S-10 S-15 S-16 S-17 S-18

R-18 R-19 R-21 R-15 R-11 R-12 R-1 R-2 R-3 R-4

Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ Ⓖ Ⓗ Ⓘ Ⓙ

"PASS"

Destruction BAY

△ 6974

5100 5900 4600

UTM 642000

UTM 643000

RGS 17

DRAINAGE #7

1300

1400

1500

1600

xR-76

xR-75

ferricrete

pyrite sphalerite arseno qtz

flt

xR74

flt SKARN

xR73

xGALENA

shale

xRG4

xDG3

Punky granitics

orange alt.

xDG1

CONGLOMERATE

xDG2

CaCO3

DRAINAGE #6

S-60

1200

1300

1400

1500

1600

1700

DRAINAGE #1

xR-82

to

R53

xR52 Galena

RGS 14

xGALENA

Fe ALTERATION

Boxwork vuggy limonitic brecciated Rock

DRAINAGE #2

DRAINAGE #3

Black Shale

Fe ALT

R 67-69

Hornfel

Intrusive

xR71

HORNFEL

xR-70

CHERTS

xR51

xR50

ARGILITE

xR-72

qtz vein in talc

R64-65

CONGLOMERATE

DRAINAGE #4

conglomerate

Conglomerate

R-59

CaCO3

Rusty Conglomerate

R-58

DRAINAGE #5

N

UTM Grid North

0 100 200 300

METRES

105 K/16 - SHEET 6

SOPHIA PROJECT

x - sample loc

Ron Berdahl, Prospector

SCALE: 1 : 5,000	FILE: 105K16-6
NTS: 105 K/16	DRAWN:
DATE: 99.07.19	FIGURE