IM

SUMMARY REPORT

GRASSROOTS PROSPECTING
YMIP 00-004

AREA 'A'	CANYON	105G-11
AREA 'B'	ARSENIC HILL	105G-11
AREA 'C'	POTATO LAKE	105G-11

WATSON LAKE MINING DISTRICT

Prepared by

James S. Dodge

June-October, 2000

YEIP
2000-
004
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summary

YMIP 00-004

Grassroots prospecting during the 2000 field season under YMIP 00-004 field season was in three areas ("A", "B", "C") peipheral to two neighboring stocks of Cretaceous quartz monzonite in southeastern corner of Map Sheet 105G-11, Watson Lake Mining District.

Targets for prospecting compmrised intrusive-related gold (cf MAUI Cls), stratiform Zn-bearing metaquartzite (cf Hoole River boulder), and emeralds in mafic schist Within the prospecting areas, several stream silt samples reported in GSC Open File 1648 carried anomalously high gold values, bedrock source being the targets.

In Area "A" silt samplings was carried out on the two streams where anomalously high gold values (50 ppb and 80 ppb) were reported in GSC Open File 1648. Assay returns of samples from one of the streams yielded clearly anomalously high gold which is interpreted as confirming the assay in Open File 1648. Bedrock source of the gold is likely the listwaenite outcrops up stream. Proximal to the canyon exposures of sparsely-porphyritic quartz monzonite is a bedded sequence of metaquartzite commonly with abundant fine grained to massive black tourmaline. In context of Aldrich formation (Sullivan mine), might tourmaline halos around Kqm in Pelly Mountains be plathfinders to sulfide deposits?

In Area "B" detailed prospecting located a meter-wide quartz rich vein in muscovite-chlorite-feldspar schist carrying high, but sub-economic, gold along with very high arsenic and bismuth values; typical intrusive-related mineralogy Other parallel veins in underlying quartz monzonite were gold and bismuth poor, with only moderately anomalous arsenic. Field mapping demonstrates a likely relationship to the gold veining in schist. A genetic ore-forming model is present; quite possibly akin to that applicable on the MAUI claims.

In Area "C" only one confirmed bedrock exposure of quartz monzonite was identified in the vicinity of the potato-shaped lake which had been (9 yrs. before?) drastically lowered 15 metres upon a catastrophic breaching of the outlet. Thus, an unexpected opportunity was presented to examine a thick exposure of glacial boulders. The dominant quartz monzonite displays a unique, cf Areas "A" and "B", crowded linear mega-porphyry fabric. One sample from meta-quartzute was >1000 ppb.

Following intensive prospecting, and thorough sampling where hydrothermal mineralization was evident, it is concluded that there is little likelihood in each area for potential of an economic mineral deposit. Nevertheless, the geologic model of one style of intrusive-related gold deposit was developed

It is recommended that no follow-up or further exploration be undertaken .

1 0 Introduction

1.1 Location and Access

Pospecting was conducted during June-September 2000 in three principal areas, namely: Area "A" Canyon 105G-11; Area "B" Arsenic Hill 105G-11; and Area "C" Potato Lake 105G-11. Maps are enclosed which indicate the basecamp sites and the prospecting traversed areas covered from them.

Access to Areas "A" and "B" was by helicopter set-in by Trans North Helicopters from its Ross River base. Access to Area "C" was by Black Sheep Cattle and Aviation's Cessna 210 float plane from their Ross River base at Jackfish Lake .

Personal GPS eTrex unit was used throughout to precisely locate outcrop/sample sites. A rental Globalstar mobile sattelite radio was used frequently in communicating with both the helicopter and fixed wing aircraft. Owing to low ceiling and poor visibility over a 3-day period, SAT phone weather reports to aircraft holding in Whitehorse prevented costly weather-aborted flights for camp pickup.

1.2 Terrain

Area "A" prospecting was carried out in a fan of multiple traverses broadening in all directions from a basecamp situated at 61°31'09n 131°08'36 w. at altitude of 5400 feet and to sites up to 5680 feet. Bedrock exposures were plentiful at and above timberline.

Area "B" prospecting was carried out primarily in a fanned-out semicircle easterly from basecamp situated at 61° 31'36 and 131° 04'02 w at an altitude of 5180 feet approximately 200 feet above timberline. Traverses were conducted up and down both the western and eastern cliff-forming terrain, and throughout the main plateau reaching a maximum altitude of 5690 feet.

Area "C" prospecting focused on search for glacially distributed sulfide-bearing rocks in both the old lake shoreline as well as between it and the newly (9+ years) exposed 15 meter-lower shoreline. Except for cliffy outcrops of Kqm 200 feet above camp, 90% of prospecting was an attempt to evaluate favourable indications for an up-ice hydrothermal source of gold and base metals.

1.3 Claim Holdings

In Areas "A" and "C" no claims are known to be in good standing. In Area "B" the ground site of claim posts for the western portion of the COACH (Expatriate) claim group were found east of their claim map sheet position. All former claims in the area (NIK, JB, INK, and CHUB) have been cancelled.

1.4 Personnel

Prospecting was carried out solo by James S. Dodge with from 17-21 days in each of the three areas

2 0 Areal Geology

The general geology of the areas covered by detailed ground prospecting under YMIP 00-004 was outlined by D. Templeman-Kluit in his 1979 OF 486 Finlayson map sheet 105G. Subsequently, Mortensen and Jilson in their 1985 report identified and described the significant geologic successions within the major Yukon Tanana (YTT) and Slide Mountain (SMT) terranes. SMT ultramafic silicated fuchsite-bearing ferroan carbonates/quartz are present immediately south of Area "A" and northeast of Area "B" (COACH cls). Prospecting during 1999 in the ultramafic sequence immediately south of Area "A" demonstrated that the weak Au bedrock geochemical anomalies do not give much promise as host for commercial gold deposits.

Portions of Mortensen et al's sequence for the YTT cover all three Areas of the 2000 program, namely (1) a basal unit comprising quartzite within a muscovite-biotite-feldspar-quartz schist package, and (2) mid-level carbonaceous phyllite, wackes, and chlorite schist.

2,1 Canyon Area "A"

Portions of the western one-half of Area 'A' had previously been staked by Atlas Explorations (1966), Hudson Bay (1974), L. Loots 1977), Cominco (1994) now cancelled.

Outrops are plentiful throughout with virtually continuous exposures along the north-south ridge crest with metasediments/metamafics inclined 45S.

A 350 meter thickness of biotite-muscovite feldspar schist with several thin (30cm) quartzite tourmaline-rich units comprise the basal unit of the metasedimentary succession. Within this package is a prominent exposure of weakly pyritic metaquartzite up to 3m thick apparently conformable with the 45S dip of enclosing muscovite-biotite-feldspar schist at 61°30 948'n/131°08.702'w.

A 600m thickness of biotite-chlorite-feldspar metamafics over lies (conformably ?) the metafelsic formation with persistent 40°-45°S inclinations. Three widely spaced prominent 5-10m thick orange-red weathering ferroan carbonate/quartz chlorite horizons highlight this mafic unit.

Quite apparent is the common occurrence of black tourmaline in silicified quartzose schist up to 100m south of the Canyon (north wall) outcrops of the Kgm stock. The intrusive mapped by D Templeman-Kluit may be the thin (10m) medium grained aplitic zone conformable with enclosing chlorite schist. Might this be an apophysis of the Kqm stock? One 2mm emerald coloured flake was found in the chlorite.

PHOTO 1 View to north down Canyon Creek Area"A". Feldspar-quartz-chlorite schist 61°31.455'n/131°11.083'w.

PHOTO 2 Mylonitized feldspar chlorite schist on plateau near 'notch' on Arsenic Hill, Area "B" 61°31.428'n/131°03.682'w.

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10/07/2000 Certificate of Analysis

James Dodge AREA "A" WO# 00061

Certified by

	Sample #	Au ppb		
ss	25474	5		
ss	25475	<5	Silts, West Canyon	31.455n/10.849w
ss	25476	5		
ss	25477	8		
ss	25478	50		
ss	25479	18	Silts, East Creek	30.358n/08.173w
ss	25480	26		

CERTIFICATE OF ANALYSIS
iPL 00G0722

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Client : Northern Analytical Laboratories
Project: WO#00061

7 Samples
7=Pulp

[072216:58:12:00071400]

Out: Jul 14, 2000
In : Jul 10, 2000

Sample Name		Be ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
25474	P	<	<	48	27	156	<	<	<	6	<	<	<	32	107	2077	<	176	171	752	48	101	80	17	0.25	8.9%	0.83	4.52	1.26	2.84	0.92	0 12
25475	P	<	<	41	38	141	<	<	<	2	<	<	<	37	61	940	<	119	133	812	55	349	38	18	0.43	9.4%	1.93	4.67	1.43	2.32	1.55	0 16
25476	P	<	<	40	42	137	<	<	<	3	<	<	<	35	61	923	<	117	132	803	55	343	36	17	0.43	9.2%	1.91	4 61	1.42	2.26	1.48	0 15
25477	P	<	<	31	29	119	<	<	<	2	<	<	<	28	48	706	<	86	106	737	44	290	29	13	0.39	8.6%	1.52	4 18	1 04	2 36	1.30	0 12
25478	P	<	<	31	25	143	<	<	<	2	<	<	<	31	54	746	<	98	112	964	43	302	29	13	0.38	9 0%	1.44	4.32	1.11	2.53	1.30	0 11
25479	P	<	0 5	38	27	116	<	<	<	4	<	<	<	31	58	811	9	123	123	808	49	214	43	15	0.31	8.5%	1.33	4.32	1 20	2.21	1.43	0 13
25480	P	<	0 2	59	34	167	36	<	<	5	<	<	1.7	46	146	2317	<	173	167	6915	48	115	80	17	0.20	8.8%	0.97	5.8%	1 19	2.82	0.90	0 12
Min Limit		5	0 1	1	2	1	5	5	3	1	2	2	0 1	1	1	2	5	1	2	1	2	1	1	1	0.01	0 01	0.01	0.01	0.01	0.01	0.01
Max Reported*		9999	99.9	20000	20000	20000	9999	999	9999	999	999	9999	999.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	5.00	9.99	5.00	9.99	9.99	5.00	5.00
Method		ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICP	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

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James Dodge

AREA "A"

WO# 00059

Certified by

f = Float Sample

	Sample #		Au ppb			
r	25461		<5	T	Tourmaline	31.218n/09.551w
r	25462	f	6		Actinolite schist	
r	25463	f	<5		Fuchsite	30.931n/10.463w
r	25464	f	9		Actinolite schist	
r	25465		92		Tourmaline	31.218n/09.551w
r	25466		5		Tourmaline	31.218n/09.551w
r	25467		11		Quartzite	31.305n/09.151w
r	25468		7		Syenite w. qtz	31.305n/09.151w
r	25469		5		Silicified schist	31.531n/08.163w
r	25470	f	24		Cp & Py stringers	31.540n/08.160w
r	25471	f	78		Po & Cp clusters	31.540n/08.160w
r	25472	f	12		Kqm W Py strgs	30.081n/10.980w
r	25473	f	<5		Listwaenite	30.081n/10.980w

CERTIFICATE OF ANALYSIS
iPL 00G0721

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Client · Northern Analytical Laboratories **13 Samples**
Project WO#00059 13=Pulp [072116 58:23 00071400]

Out: Jul 14, 2000 Page 1 of 1
In · Jul 10, 2000 Section 1 of 1

Sample Name		Be ppm	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
25461	P	<	<	11	3	21	<	<	<	1	<	<	0.9	4	10	54	<	204	9	203	10	34	6	1	0.03	1 88	0 08	0 85	0.17	0.23	0.68	0 01
25462	P	<	<	13	6	43	<	<	<	1	<	<	1 3	10	15	79	<	154	15	700	<	4	1	2	0 01	0.95	0.04	1.54	0.41	0.10	0 04	0.01
25463	P	<	0 3	187	13	43	<	<	<	7	<	<	1 7	52	50	1058	<	73	171	1837	38	220	29	10	0 18	5.5%	6 94	5 5%2	11	1.95	0.61	0 17
25464	P	<	0 2	33	8	41	<	<	<	4	<	<	2 3	43	205	728	<	802	204	1404	20	159	11	37	0 06	4 31	8.91	5 2%2	66	1 77	0.19	0 09
25465	P	<	<	47	9	61	<	<	<	<	<	<	2 4	15	23	102	<	132	21	270	14	54	7	3	0 09	2.70	0 39	2.38	0.64	0 41	0.42	0 02
25466	P	<	0 2	46	17	81	<	<	<	5	<	<	1 4	49	156	2026	<	275	202	1038	21	887	19	23	0 69	6.1%	7 41	4.82	2 79	0 63	1 96	0.10
25467	P	<	<	114	37	14	24	<	<	<	<	<	1 5	8	6	29	<	108	13	70	3	8	2	1	0.02	0.67	0.05	1.59	0 08	0.03	0.17	0.01
25468	P	<	<	42	34	100	<	<	<	4	<	<	<	32	72	1142	<	196	144	843	40	447	180	16	0 49	8.2%	2.65	4 00	1 90	1 69	3 06	0.22
25469	P	<	<	29	80	99	<	<	<	2	<	<	<	21	36	244	<	172	75	575	31	211	99	8	0 27	6.6%	0.48	2.70	0 28	1 10	2.66	0.11
25470	P	<	0 8	948	14	21	<	<	<	<	<	<	4 6	209	41	57	<	102	18	218	2	23	17	2	0 05	3.50	0 06	6 6%0	14	0 05	2 34	0.02
25471	P	<	0 4	90	37	56	<	<	<	6	<	<	1 8	39	82	553	<	61	199	697	33	151	67	12	0 43	7.1%	0 92	5 8%1	49	0 84	2.07	0 33
25472	P	5	<	9	31	44	<	<	<	2	<	<	<	8	8	920	<	85	26	329	26	155	51	4	0 16	7 9%	0 70	1 52	0 38	4 03	2 17	0 06
25473	P	<	<	26	9	27	<	<	<	3	<	<	3 3	17	38	97	<	266	30	946	3	93	5	6	0 01	0 47	4.11	3.37	1 33	0 17	0.05	0.02
Min Limit		5	0.1	1	2	1	5	5	3	1	2	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0 01	0 01	0.01	0.01	0 01	0.01	0.01	0.01
Max Reported*		9999	99.9	20000	20000	20000	9999	999	9999	999	999	9999	999.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1 00	5.00	9.99	5.00	9 99	9.99	5.00	5.00
Method		ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICP	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICP	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM	ICPM

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

2.2 Arsenic Hill "B"

The Area had been staked as the Rivier cls by Welcome North (1988) and as NIK claimes by Cominco (1994) now cancelled. The COACH cls staked by Expatriate (1995) are in good standing and cover a prominent listwaenite northeast of Area "B".The author's designation "Arsenic Hill" evolved from the presence of anomalously high arsenic in current samples from fault zones in both the quartz monzonite stock and the intruded schists.

A package of metasediments comprising largely felsic schist is intruded by coarse grained Cretaceous quartz monzonite stock with a peripheral zone exhibiting only sparsely distributed feldspar megacrysts.

The eastern one-half of Area "B" is underlain by dominantly metamafic schist (45 SE), while the western one-half exposes the quartz monzonite intrusive stock.. Three parallel steeply dipping, wide (8-l0m) fault zones are best recognized in the quartz monzonite terrane by the distinct topographic linear depressions. These 500-800m long fault zones are conduits of hydrothermal argillization with accompanying miarolitic quartz veining and "digestion" of the altered quartz monzonite. Black tourmaline and rare arsenopyrite crystals (6% As) are accessory to quartz veins principally near bounding faults Assays of grab samples of quartz-tourmaline revealed highly anomalous values of arsenic (>1000ppm) and tungsten (255ppm) with very low 20-50 ppb gold. Samples of quartz veining in argillized quartz monzonite yielded weakly anomalous arsenic (max 237 ppm) only

Near the headwall of a shallow west-facing cirque a steeply dipping I 0m-wide vein of quartz, tourmaline and arsenopyrite was found in ESE-dipping muscovite-feldspar-quartz schist at 61 31 723'n/131 02.742'w. The vein comprises multiple hydrothermal brecciation-healing within a fault zone where siliceous black tourmaline is concentrated near the southside fault. The northern portion of the fault zone is younger, poorly re-cemented, tourmaline poor, but from the garlic scent and yellowish green oxides, likely arsenic rich, assays bear this out. Tourmaline-rich samples #25481/2 are high in arsenic (4% As) but low in gold (58 ppb Au) On the other hand, vein breccia samples #25483/4 are very high in arsenic (20% As), notably high in bismuth (2000 ppb Bi) and high, but sub-economic, in gold (60l ppb Au); altogether mineralogically akin to the intrusive-related gold suite.

PHOTO 3 Argillized breciated Kqm healed by hydrothermal quartz - 10m wide fault zone 50° Az, Area "B" 61°31.126'n/131°03.298'w.

PHOTO 4 Viewed southwest 300m southwest of Photo 3 characterized by increasing tourmaline in host quartz veining, Area "B" 61°31.134'n/131°03.717'w.

PHOTO 5 Crushed weakly silicified one-half of 1.0m thickness of vertical vein. Shallow hand trenching to bedrock carrying 20% As, 2000 ppm Bi, 600 ppb Au. Samples #25483/4 Area 'B' 61°31.723'n/131°02.742'w.

PHOTO 6 Close up tourmaline-bearing silicified one-half of 1.0m thickness of (same) vertical vein carrying only 4% As and very low Bi and Au. Samples #25481/2 Area 'B' 61°31.723'n/131°02.742'w.

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09/08/2000 Certificate of Analysis

James Dodge WO# 00087

AREA "B"

Certified by

	Sample #	Au ppb		
r	25481	58	Moderate As in black silica-tourmaline	31.813n/02.232w P#6
r	25482	56		
r	25483	601	High As,Bi,Au crushed oxidized arsenopy	31.813n/02.232w P#5
r	25484	433		
r	25485	53	White qtz + arsenopy	31.813n/02.232w
r	25486	21	Qtz moderate As,W w bk tourmaline	31.126n/03.298w P#3
r	25487	30		
r	25488	16	Weak As qtz digesting Kqm in fault zone	31.134n/03.717w P#4
r	25489	23		

CERTIFICATE OF ANALYSIS
iPL 00H0951

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Client : Northern Analytical Laboratories
Project: WO#00087

9 Samples
9=Pulp

[095116:46:13:00081800]

Out: Aug 18, 2000
In : Aug 15, 2000

Sample Name	Type	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm
25481	Pulp	<0.1	19	44	21	3.3%	8	<3	2	<10	24	2.7	4	6	<2	<5	108	3	62	8
25482	Pulp	<0.1	28	47	19	4.0%	5	<3	1	<10	31	3.2	7	7	<2	<5	101	3	46	10
25483	Pulp	4.7	143	164	21	20%	36	<3	5	<10	1050	11.8	47	13	<2	<5	30	14	15	2
25484	Pulp	7 3	181	540	19	20%	40	<3	3	<10	2018	13.5	42	19	<2	<5	35	14	17	3
25485	Pulp	<0.1	28	66	12	6.0%	10	<3	3	<10	83	4.4	35	14	<2	<5	217	8	41	13
25486	Pulp	<0.1	28	2	11	525	<5	<3	3	<10	<2	0.8	2	4	24	255	146	3	44	7
25487	Pulp	<0.1	17	<2	9	1125	<5	<3	8	<10	14	1.2	1	5	27	75	146	3	42	15
25488	Pulp	<0.1	3	11	24	114	<5	<3	1	<10	<2	0.7	4	3	48	<5	176	4	406	7
25489	Pulp	<0.1	4	11	20	237	<5	<3	2	<10	<2	0.8	3	4	34	<5	141	5	227	8
Minimum Detection		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2
Maximum Detection		100.0	20000	20000	20000	10000	1000	10000	1000	1000	10000	100.0	10000	10000	10000	1000	10000	10000	10000	10000
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample

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iPL 00H0951

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Client : Northern Analytical Laboratories
Project: WO#00087

9 Samples
9=Pulp

[095116-46:13:00081800]

Out: Aug 18, 2000
In : Aug 15, 2000

Sample Name	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
25481	8	6	<1	<0.01	0.07	0.04	2.76	0.02	0.01	0.01	0.02
25482	12	9	<1	<0.01	0.06	0.02	3.31	0.01	0.02	0.01	0.03
25483	133	5	<1	<0.01	0.04	0.04	14%	<0.01	0.10	0.01	0.01
25484	113	6	<1	<0.01	0.05	0.06	14%	<0.01	0.03	0.01	0.02
25485	20	2	<1	<0.01	0.23	0.06	4.85	0.07	0.09	0.01	0.03
25486	8	32	1	0.01	0.64	2.28	1.05	0.03	0.27	0.04	0.03
25487	10	24	<1	0.01	0.70	2.24	1.02	0.04	0.31	0.05	0.02
25488	18	5	1	<0.01	0.25	0.04	0.78	0.02	0.07	0.02	0.01
25489	10	5	1	<0.01	0.24	0.03	0.78	0.02	0.07	0.02	0.02
Minimum Detection	1	1	1	0.01	0.01	0 01	0.01	0.01	0.01	0.01	0.01
Maximum Detection	10000	10000	10000	1.00	10.00	10.00	10.00	10.00	10.00	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 . %=Estimate % NS=No Sample

2.3 Potato Lake Area "C" was chosen for a basecamp site to prospect the northernmost sector of the quartz monzonite stock mapped by Mortensen and well exposed in Area "B". A lake, named by the author as "Potato Lake", owing to its simile configuration, was chosen for float plane set-in.

The lake has now a significantly reduced shoreline and at least a l5m lower water level than as indicated on Map Sheet lo5G-11. Age of new growth willows on the "new" shore indicates that this change came about evidently in the l990-91 period when the outlet was catastrophically breached and at least one-third of the lake drained permanently. Thus was revealed an unexpected scene of a vast number of glacial boulders serendipidously exposed below the old lake level. So, an exceptional opportunity was offered in the evaluation for plotential bedrock mineral deposits up-ice.

Alas, only two boulders, among the literally hundreds examined, provided any heightened outlook of any up-ice potential for prospective mineral deposits. Sample #28603 Photo 8 and sample #28602 Photo 9 offer at best tenuous targets for gold and copper, respectively.

PHOTO 7 Crowded K-spar megaphenocrysts forming strongly linear anisotropic fabric in Kqm, Potato Lake, Area 'C' 61°34.020'n/ 131°07.160'w.

PHOTO 8 Stratified micaceous metaquartzite with 15cm band of FeOx carrying 1079 ppb Au. Sample #28603 east end Potato Lake, Area 'C' 61°34.147'n/131°09.201'w

PHOTO 9 Massive folioform float with pyrite, chalco-pyrite and fine grained tourmaline.1012 ppm Cu, 588 ppm As, 174 ppm Co, 136 ppm Ni. Sample #25490. Area 'C' 61°34.035'n/131°09.158'w.

PHOTO 10 Pyritic schist southeast shore Potato Lake, Area 'C' 61°34.035'/131°09.158'w.

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James Dodge WO# 00125

AREA "C"

Certified by

f = float

	Sample #		Au ppb		
r	25500	f	16	Cp Py chlorite schist	34 035'n/09 158'w P#10
r	28601	f	11	Folioform Py & Cp	34 359'n/09 205'w P#09
r	28602	f	57	Folioform Cp & Py	34 359'n/09 205'w
r	28603	f	1079	Py band quartzite	34 147'n/09 201'w P#08
r	28604	f	21	Grey qtz As Sb Ni	34 359n/09 200w

CERTIFICATE OF ANALYSIS
IPL 00I1130

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Phone (604) 879 7878
Fax (604) 879 7898

Client Northern Analytical Laboratories
Project W O 00125

5 Samples
5=Pulp

[113017 08 22 00092000]

Out Sep 20 2000
In Sep 07 2000

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
25500	P	1.0	105	40	21	8	<	<	16	<	<	0.9	23	34	26	6	64	93	149	12	115	4	1.0	0.03	2.39	5.68	3.28	1.04	0.04	0.12	1.94
28601	P	<	59	23	54	<	<	<	5	<	<	5.5	29	41	32	6	42	30	414	15	199	2	1.0	0.12	1.51	1.50	3.72	0.57	0.06	0.08	0.14
28602	P	<	216	21	60	<	<	<	3	<	<	6.1	33	88	60	<	135	132	370	11	33	3	11.0	0.14	1.36	1.01	4.73	1.26	0.08	0.05	0.18
28603	P	0.5	81	16	166	<	<	<	4	<	<	10.4	28	30	257	49	48	32	4868	22	279	9	5.0	0.14	2.01	13%	7.22	0.67	0.06	0.04	0.06
28604	P	<	22	16	13	447	200	4	2	<	<	1.8	76	1058	63	<	219	8	142	<	7	1	1	<	0.08	0.31	1.51	0.65	0.01	0.01	<
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 /=Estimate / NS=No SampleP=Pulp

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15/09/2000 Certificate of Analysis Page 1

James Dodge AREA "C

WO# 00126

Certified by

	Sample #	Au oz/ton	Ag g/mt	Cu %	Pb %	Zn %
r	25490	0 002	1 4	0 082	0 009	0 008
r	25491	0 001	<1 0	0 049	0 003	0 029
r	25492	< 001	1 6	0 038	0 002	0 003
r	25493	0 001	1 8	0 015	0 001	0 002
r	25494	< 001	<1 0	0 027	0 002	0 002

Folioform oxidized sulfides in chlorite schist

Samples taken from float Sample #28601

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CERTIFICATE OF ANALYSIS
iPL 00I1289

Client Northern Analytical Laboratories **5 Samples** 5=Pulp
Project W O 00126 [128911 56 54 00100500]

Out Oct 05 2000 Page 1 of 1
In Sep 28 2000 Section 1 of 1

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
25490	P	1 9	1012	104	100	588	<	<	4	<	<	3 2	174	136	11	7	70	21	344	<	13	7	<	< 0 08	0 28	18%	0 05	0 01	0 01	0 01
25491	P	1 0	574	37	308	11	<	<	4	<	<	5 5	36	40	32	<	71	113	305	9	30	2	12	0 32	1 89	1 46	4 98	1 33	0 71	0 10	0 20
25492	P	0 2	443	11	29	<	<	<	2	<	<	2 1	40	28	24	<	34	9	394	8	73	2	<	0 05	0 58	1 99	4 99	0 30	0 16	0 02	0 09
25493	P	0 2	180	10	15	<	<	<	1	<	<	0 6	16	9	20	<	50	8	266	10	81	2	<	0 05	0 53	1 49	2 87	0 21	0 04	0 02	0 10
25494	P	0 2	308	12	22	<	<	<	1	<	<	1 7	21	12	34	<	34	8	377	6	86	2	<	0 05	0 55	1 96	3 42	0 27	0 09	0 02	0 10
Min Limit		0 1	1	2	1	5	5	3	1	10	2	0 1	1	1	2	5	1	2	1	2	1	1	1	0 01	0 01	0 01	0 01	0 01	0 01	0 01
Max Reported*		99 9	20000	20000	20000	9999	999	9999	999	999	9999	99 9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1 00	9 99	9 99	9 99	9 99	9 99	5 00	5 00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 /=Estimate / NS=No SampleP=Pulp

3 0 Conclusions

Area "A" offers very low potential for discovery of Intrusive-related gold and of stgritiform base metal occurrences

In Area "B' a new sub-economic intrusive-related gold occurrence was discovered on Arsenic Hill where anomalously high arsenic in-bedrock outcrops are prevalent Although the very high arsenic and bismuth assays along with nearby high tungsten present a mineralogical fit with many Yukon I-R deposits, the narrow (I 0m) vein structure Its grade and location all lessen the attractiveness of further exploration

As seen from a proposed genetic ore-forming model gold deposition appears to be linked to the reasctivation of the initial fault zones where early mixed meteoric magmatic fluids had dominated (low but anomalous arsenic and tourmaline) Reactivation within the fault zone allowed tapping of dominantly magmatic hydrothermal reservoirs (high arsenic bismuth tungsten) This 2-phase genesis appears to be a working model for evaluation of arsenic-only occurrences with respect to their potential as a guide to gold and its pathfinder elements Tourmaline in quartz along with arsenic are common to both early and late hydrothermal phases

In Area C the absence of significant precursor float led to the conclusion that any up-ice sulfide deposits were poorly or scantily revealed among the multitude of glacial boulders

One of the targets outlined in the author s proposal for YMIP 2000 Grassroots prospecting was successfully realized. Although of sub economic importance, the program s efficacy was confirmed by the discovery of an intrusive related (As,Bi W,Au) vein in schist near a quartz monzonite stock.

4 0 Recommendations

Detailed prospecting during the 2000 field season in Areas A B and C was unsuccessful in locating gold/base metal occurrences on which prudent exploration can be recommended

ABRIDGED RESUME
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Education

B S Mining Engineering 1941 Missouri School of Mines Rolla, Missouri U S A
M S Economic Geology 1951 Leland Stanford University Palo Alto California, U S A
Field Geology Mapping 1940 Princeton University Red Lodge Montana, U S A
African Ore Deposits 1952 Albert Ludwigs Universitaet Freiburg im Breisgau Germany

Experience

Miner 1939 South London, Colorado 1941 Hirst Chichagof Alaska
Mine Geologist – 1941 1943 under Reno Sales Anaconda Copper Butte Montana
Mine Operator – 1945 U S Army Engineer Lieutenant air field construction, Kyushu Japan
Deputy Chief Mining/Geology – 1946 1949 SCAP Occupation Tokyo Japan
Senior Exploration Geologist – 1954-1955 U S Atomic Energy Commission, Washington D C
Prospector/Mine Operator – 1956 1959 Fryingpan Uranium Co Aspen, Colorado
Prospector – 1958 1959 Southern Rhodesia/Northern Rhodesia – emeralds
Geologist – 1959 – Guest Gov t France Uranium deposits Massif Central France
Consultant – 1960 1964 – Mitsui Mining/Smelting – Porphyry Coppers Peru Chile U S A
Consultant – 1963 1966 Mitsui Mining/Smelting – Pb/Zn Massive Sulfides Vangorda Yukon
Consultant 1967

Thayer Lindsay (B C) ESSO staked Eaglehead (B C) Eisenman Chemical Nevada discovered largest No Am barite deposit Glidden Co barite New Mexico DIAND Whitehorse copper unconformity uranium, Sask magnetite Southern California beach sand gold Yagataga Alask Atlas Exploration, copper Chile bedding sands Manitoba expa nded shale Japan TEA barite Yukon minette pipes Dawson Yukon, Tarvisio Italy Pb/Zn Morocco/Algeria 1952 Pb/Zn

Affiliation

Senior Fellow Society of Economic Geologists
Member Association of Professional Engineers Yukon Territory

I

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LEVEL BOOK
ALL WEATHER

09°C-Pty Cldy

13 June ~~Wed~~. Tues

Drove Whse → Ross River 258 mi

Trans North Helicopter - Grant

Ross R. to: 61°31'09"/131°08'36"

Windy-exposed-tent partially blown out. Snow banks nearby.

Many dwarf lupin

Camp @ ~~5E~~ 5400'

14 June ~~Thur~~ Wed +01°C am

Sunny

e-tex-GARMIN confirm heli GPS camp

030 from camp - down slope to 5325', alt. Qtz, musc. schist buff 45°S Strike E-W. Some layers qtz dom., while others are musc dominant. One 10cm thick qtz-rich band has much tourmaline.

15 June ~~Fri~~ Thur

0°C am
Clear - windy
Bar. fell 400' onlite

Traversed E 1km, S. up to 5550' fm contact Chl, qtz schist (E/W 45°S) overlying mafic schist/phyllites (bk weathering) often massive.

Schist recessive 200m thick to N edge of prominent (50m deep) gorge w. 5m thick snow banks concealing N-facing cliffy (appears to be) outcrops. Qtz lenses in schist - esp. where FeOx weakly generated. No bedrk evidence of any hydrothermic development so far, but several pco. float suggest possible presence in area.

Heavy shower mid-afternoon. #2 ~~tent~~ erected as food shelter.

Many lupin & anemone.

16th June ~~Sat~~ FRI +8°C am.
Partly cloudy –
Bar steady. Lt breeze
Steady Rain begun 7pm

10 am ↓ crossed #1 creek ~
11 am ~ sampled Mt #2 (main) Creek West of camp. @ ~~5440~~ 5080' Base camp correction
60% Mafic fine grained wacke w white qtz blips and occasional qtz short stringers.
30% Porphy qzm partially rounded – implication a separate qzm from the main qzm N of camp
20% Many large (3-5cm) angular qtz/chl schist veins.

10 kg boulder of musc, bio, schist w. actinolite ~~////~~ bestaform w bright green specks and splotches – green isn't quite like typical fuchsite. Shape indicates it was in tight fold host .

Does stream float point to rocks which might be auriferous? (ie. contribute to stream silt anomaly near junction w EW Gorge.

61° 30.938 / 131. 10.753

Interesting to note the range of float compositions:

* Mafic wacke
* Qtz/chlorite vein
- Feldspar porphyritic monzonite
* Minor. Fe-carbonate-schist - Green specks or (Fuchsite maybe)
- Serpentinite
- Chalcedony/Jasper
- Qtz/feld 'eye' porphyry
- Qtz schist - fine Pyrite + yellow (Cp?) specs

17 June ~~Sun~~ Sat

5°C am
Partial clearing
Rain until 5 am
Not a solitary mosquito yet!

61 31'.218
131 ~~09~~.551
~~5125~~ 5250'

Qtz veins in Amphibolite bio-musc schist near tourmaline in Qtz
E-W 35°-40°S

Numerous float qtz w tourmaline and Felx-muscovite
Bedrk source appears to be 16-18 cm thick with musc-qtz (metaqtzite) above below, ~2-3 mm bands

Very uncommon - 2mm pink garnets in qtzite

Sun
18 JUN ~~MON~~ -1°C am
Partly sunny
2 Curious caribou @ breakfast
showers beginning 9:15

After & before heaviest rain - carried on up (9) to 5580' to prospect low cliffs & edge of giant 6-8m hi cornice. Moderately resistant muse-chlorite schist & phyllite. Several horizons hold lenses of limonite stained bull qtz or 'sweats' meaning products of metamorphic dehydration - not intrusive related hydrothermal.

+1.0°C Sunny
19 June Mon Windy

61° 31.305' 5080'
131 09.151'

Amphibolite w. Chianti red (Pink) garnets (Possibly float - i.e. remote source.
Much fine grained, mafic (amphibolite) in large (no tumbling) pieces 30-40cm. near source.
Much metaquartzite - some with sphalerite quartz zones - quite similar to the metaquartzite + misc host of the large boulders I found along Hodder R. containing banded sphalerite 13% Zn remember?

* Looked up to see Grizzly running away @ 100m - heading for timber. Probably heard my whistle blowing

Alpine Bittercress
Lousewort

0°C

20 June Tues Very strong Winds
Sunny
~~Equinox~~ Solstice

Confined to tent by very high winds – used body weight to keep tent from being airborn – in the 60-70 km/hr range. Large hole in fly of small food tent.

-1°C am

21 June - Wed. Partly sunny - black to west. Low wind. -
STILL NOT ONE MOSQUITO !!
(too cold too windy)

61° 30.554'
131° 09.573'
Buff weathering, massive, fine grained qtz, feldspar, hbl ↔ rhyolite intrusive - could this be an appendage of the main stock (Qm)? 5680' -

20m strataig thick ferroandolomite bands in chl. schist - dol. from 1-2 cm thick, as are bands of chl. schist - E-W 40°S. @ 5550

SNOW!

22 June Thur. +1°C

1cm snow after 4 hrs drizzle 2cm in cup.

Rain light but steady 5 pm — midnight. —

#2 tent leaking.

23 June Fri

+3°C
Grey day
Sunny late afternoon

5040 - N ~~facing~~ side of Main Gorge. -
Bio in cfz, ~~mud~~ sdst

61 31.521
131 09.276

61 31.449 (valley Btm
131 09.277

24 June Sat

+6°C

Sunny – West wind

Hi bar.

Mosquitoes arrived at Base Camp 5400'

+10°C

25 June Sun. Sunny Hi Bar.

Fire - McEvoy Lk (?)

2 Magnificent caribou

Lunch main Gorge - w of both tributary creeks.

@ 4620' alt. 61 31.537'

131 10.849'

31.455

Photo — 131. 11.083

Calcareous schist cliffs

Stream silt samples:

#1 main Gorge - west - near

#2 W. tributary

#3 E. tributary

#4 Gorge - just above #3 tributary

26 June Mon +12 am

Very hi pressure
up to 18°-20°

Called Grant @ TNE / Ross River
to change from 30 June to
03 July ± pickup.

Located meta-qtzite formation
110° 20° S White weathering-
Qtz + muse. Limonitic increasing
to footwall contact (conform) with
muse, qtz schist.

61 30.948
131 08.702

5430'
5380'

Apparently 3 m thick
Exposure 50 m, perhaps longer

Very similar to the stratiform Zn
Boulder of Hoole.

Found D handle shovel w red paint.

27 June – Tues

+10°C am
Sunny
For Fire "atomic" cloud
mink Creek/RS Hwy ?

Silt Samples Station #1-27 5060' W. side main Creek.
61 – 30.521
131 • 08.204

#2-27.00 5160' W. side main Creek.
61° 30.358'
131 08.173'

#3-27 61° 30.040'
131° 08.041'
5200' W side main creek.

28 June Wed

8°C am
Fly sunny
Bar-falling

Outcrop – silicified muse schist.
Blocky pcs. (up to 25cm) white
|| qtz dikes – thin, but up to 8cm wide, occasionally. Silicification appears to start along foliation preferentially – rare X-cutting

Gulley 15m to east – med grained K-spar, hbl, qtz – boulders poorly rounded (probably near source as over 7 large boulders – 80cm)

61° 31.531
131 08.163
Alt. = 5000'

The sheeted appearance + Felx – call for assay

61° 31.490'
131° 08.209'

Could this setting represent high level intrusive purged of SiO_2 into mica schist with syenitic residual aqueous phase. Need Be values.

29 Jun. Thur. 8°C Cloudy Heavy Rain beginning noon - to 8 pm.

Returned to site of 28th - specifically 50 m to south and 50' vert.

Located two pcs. float:

#1 30cm, dark grey qtz frac fillings in weakly silicified chlorite schist. Pyrrhotite in clusters w rare chalcopyrite.

#2 25cm feebly-weakly silicified musc schist with several folia conformable bands (1 cm wide) 95% metallic gray sulfide(s). Quite impressive.

Rounded out at noon - after futile search 'up-ice' for more similar float - 100 m to east.

+6°C

30 Jun Fri

Rain beginning 5am until noon then in fog w. drizzle until 4pm Partial lift of fog & bar. commences rise by 7pm

01 July Sat

-1°C ice in pail

Sunny then high partial cloudy.

Traversed @ 5300-5400 west, then, south to old prospecting campsite (2 barrels + tent poles. camp wood stove - along primary E-W ravine - draining W then sharply south (see last year notes nearly reached this site)

The BM mapped by Templeman-Kluit appears to have been a fine-to-medium grained aplitic zone possibly up to 50m thick - sill-like in massive chlorite schist package.

5320' Correct

61° 30.081'
131° 10.980' W

02 July Sun

+6°C am
Ptly cloudy
Steady hi bar.

One last trip down to 5250 alt to extend some outcrops of qtz-tourmaline - i.e removing thin turf. The presence of notable amounts of tourmaline in siliceous ~~x~~ vicinity of Kam stock - this seems to be common occurrence - yet, so far, no important concentration of sulfides - not even pyrite. The ~~accom~~ host quartzitic formations (@ least stratiform) are they of replacement origin - i.e qtz added from intrusive - or are they metaquartzites sensu stricto?

cloudy
Drizzle
9am – noon
+ 7° am

03 (Mon) July

Sorted & bagged 13 rock samples w. tags for NAL + ICP-extended – i.e. with Be values in addition to Gold.

Lift out by NNH @ noon & drive back to Whitehorse from Ross River.

Sunny 20°.

10 July ~~Tues~~ Mon

Drove Whse → Ross River

TN Helicopter (Grant) to camp 2 "B" site – low saddle in Kqm – swamp water.

5380' alt.

61° 31' 36" } TNH
131° 03' 55" }

(131° 04' 02") → mine
(61° 31' 36")

Globalstar = 1.403.997.1406

11 July – Tues

Lunch @ 5580 much Felx. (Bio=) Kqm float – just below cliffy outcrops. Some feldspar porphyritic Kqm – w. white qtz stringers. Some narrow 1-4 cm ~~wide~~ heavy Felx 61° 31.635 / 131° 03.684'

@ 5650' (above camp) 61°31.505' / 131°03.704'
Float - 4 grs - up to 20cm
Qtz vein incorporating wisps of bio schist
minor sulfides aside from sparse pyrite.
FeOx ± vugs lined w. qtz. Site is 20m
below top of outcrops of blocky hgm - sparse
feldspar phenocrysts.

Called Miami - connected 30 min off watch time.

12 July Wed.

Rain -3/4 hrs during night Blue tent blown over - hi winds 4°C am

Hi wendebill.

Gopher "attacking" tent

Returned to 11th @ 5650' - recovered 5kg similar float. One pc. 0.5-1.0 mm fluorspar purple seams. Followed near-source float to the contact zone between sparse-feldspar-porphyritic Kgm and blocky feldspar-qtz-musc (weich to somewhat silicified.

Probably ? radioactive

Apparently the contact zone is on order of 2-5 meters - but need to check top of ridge @ 5800+ tomorrow.

13 July Thurs. +8°C

Mostly sunny

Gophers marshalling for attack on tents.

A.M. Dug up many boulders - qtz lenses in bio-musc-qtz schist - much pyrite, occassional chalcopyrite - esp. along periphery of qtz lens. Vein material - at least 20 m above highest outcrop of Kqm-

P.M. Climbed to ridge crest @ 5750'

Photo #1 Close up - boulder - schist + qtz lenses

Photo #2 of schist - ~~V40°~~ 25° foliation ~~250°~~ 50° E 25

looking 61° 31' 44.8"

131° 03' 36.08"

14 July Fri - Clear am 10°
by 10am - 90% clouds

61° 31.559 5790'
131° 03.392

Qtz-breccia Felx++ 1m x 5m
apparently still musc schist w.
increasing hbl edges of qtz.

11°C am

15 July Sat. 3 heavy, long showers from west. Re-set tent after blow-down.

Retraced climb through 'notch' to plateau east mtn – no Kgm dikes or even qtz veins.

1°C

16 July - Sun — Chilly - clear after clouds crashed onto

100m S of 'notch' - E/W fault zone distinguished by 3-4m wide depression clearly defined for over 200m in W end identified by arkose-like weathered felds-musc-qtz schist. 61° 31.407 5710'
131° 03.656

@ 90m S of 'notch' narrow (25cm) dike - (E/W) crosscutting schist - of very fine grained Kgm distinguished by occasional 1mm flakes of biotite randomly oriented. Dike appears to be approx. 20m long - extending up from typical Kgm on steep west-facing slope off plateau.

Photo taken looking S to knob of Kgm.
Knob @ 5650' (E/W fault zone @ 5600')
61° 31.225
131° 03.781

Lunch E end of butte -

61° 30.875
131° 02.407 5360'

Somewhat phyllitic fgd musc. qtz schist

13:00 hrs.

@ 61° 31.126
131° 03.298 5380'

2 fast flowing spring-fed creeks in cauldron

Broad pervasive argillization - new word

near (20m) outcrops of Felsed fine grained Kqm.

Within this altered Kqm - large (to 45cm) quartz breccia healed by quartz w. Felsic pockets and fracture planes - 10 large pcs roughly concentrated in mid-altered zone - assuming these represent the core or main vein of this E-W wide 10m fault zone. Photo of breccia float.

2 large cobbles of harzburgite - w. 1-cm veg orange rind.

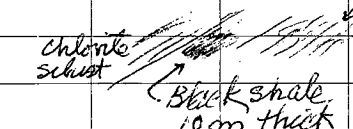
18 July Tues 4°C

Low bar. Pty sunny

61° 31.858'

131° 02.846 5550'

Contact



Lunch - after climbing S from 5450' to 5650' @ 61°31.813 ridge line
131 02.232

Found a 50m long train of float vein material, gtz crushed, healed by arsenopyrite. Largest boulder 50cm. Some very hard siliceous(?). Yellow and pea green surface coatings. Can't locate bedrock source so far - more digging needed where heavy turf conceals bedrock. Float train is entirely linear i.e. fall line - as a sled would describe it. So far, appears to be a vein, but it's

relation to chlorite schist (060 25 SE) is unclear. Might there be some relationship with the 500ppm As in one soil sample on INK claims - several claim lengths SE?

Found Post No. 1 of INK 1/2 - so this float lying to NW is on open ground - open anyway, as INK are cancelled. Need to find COACH 1/2 claims - as these are nearby in good standing!

As have learned re As in this area - Au may or may not be present - still can't differentiate megascopically. - (read - MAUI conundrum).

19 July Wed

Standby quiet
~~Called~~

+4°C

20 July Thur

Rain & more rain all day. w. 3 periods of cold wind lasting 1 hr each

21 July — Fri — +7°C Hi Winds Cloudy

INK #1 Posts

INK P.1 (1) YB 50995 — 5720' — 61° 31.689 / 131° 03.354

INK P.1 (2) YB 50996 — 61° 31.696 / 131° 03.338 — antlers

20' diff. from antlers

61 31.700
131 03.337

.004 Lat = 20'
.001 Long = 20'

Thus:
GPS accurate to within 20' radius circle.

NE corn. of former #1 INK
61°31.877
5525' 131° 02.966

Arsenopyrite train of float
10x9 E-W 5740' 61° 31.761 / 131° 02.708

030°

x bottom 5665 61°31.778 / 131°02.689'

Arsenopyrite

2:30 pm large (50cm) float — may be near subcrop. — just one corner peeking up through turf - up-slope - right on trend of 10 pcs below.

5780' 61° 31.723
131 02.742

4 more large (30cm) pcs within 3 meters of No. 1 boulder - not rounded.

+5° bar steady

22 July Sat. Hi S wind

Returned to 21 July - uppermost large arsenopyrite boulder - with shovel unearthed 6 more medium sized to cobble boulders - float - just under turf.

Upslope 30m - asernopyrite in limonitic & white quartz - but only small cobbles. However, could be considered to be up-fall line for float.

Took 2 photos @ upper major float boulder.

@2/13

23 July Sun +8°C

Interminable wind
(on other hand - no bugs)
Cloudy

Examined N-draining mini-gorge of Kgm
down to old snow @ 5200'. Monotonous
texture - no feldspar porphyry.

Carefully followed float up west-facing
hillside searching to pinpoint intrusive
contact with feld-musc-qtz schist.

Within 70 m noted feldsp porphyry - Kgm med grained
within 30 m less porphyry at expense of
notable decrease in grain size

Finally, within 3-5 m Kgm became an aphanitic
pinkish chalcedony - then in contact with
schist produced a very tough, blocky weathering
dark brown meta-schist - probably the foliated
fissile progenitor underlying upper slopes of hill.

Sparse white bull-qtz stringers into schist -
did not see any stringers of Kgm into schist
General altitude of two good Kgm exposures
is ca. 5500'

Cloudy
+8°C

24 July Monday

First chlorite schist dominant float in solifluction + felx ball - sample @ 5400' 61° 31.965 / 131° 03.331

Carefully prospected 200m width of chlorite schist (+ minor black slate and shale) - no through going qtz stringers or dikes. Much felx qtz as ball in chlorite-felds.-schist.

Rain began 11 am - continuous (with force 5 winds - peaking @ 9pm with Tent collapsed) Rain easing @ 11pm.

↓9°C

25 JULY Tues

Perfectly still
Cloudy Bar↓

At 'Notch' on W-facing slope.
Feld + musc-qtz schist
040 to 050 As, 35° SE

7 caribou

Very fine grained Kqm dikes (3) (Feld dominant) and ?foliation form
See photo - @ 5720 61° 31.428
45° SE 131° 03.682

+10°C

26 July. Wed. Cloudy / showers

On plateau, carried out very slow, detailed prospecting in 2 areas:

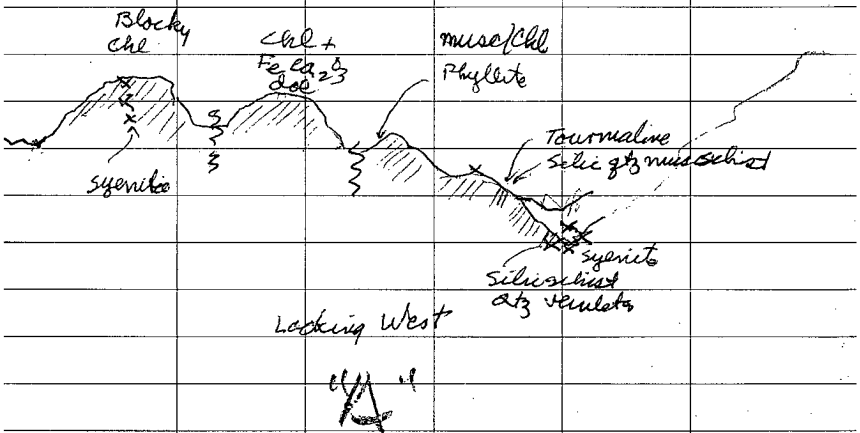
A. Slate/chlorite schist cliffs - where 2 bull qtz dikes (± 90°) produced bleached, talcy chlorite schist at contact between black slate and overlying fold - chlorite - qtz(-) 010 Az 30° E. No fuchsite.

B. Arsenopyrite vein in phyllite - Upslope prospecting - probing through turf below/above uppermost 50cm float boulder (and many small fragments). Revealed two more cobble-size As-bearing shattered qtz veining - with some phyllite in breccia walls of vein. No clear evidence for more up-slope float - largely owing to prominent solifluction on this N-facing slope.

27 July Cloudy + 9°C

Revisited "Notch" area and re-examined W-facing slope to determine if Kqm may have produced distinctive features in its contact with the wacke schist. SE 45° inclination of foliation-

As seen in this photo I took today there has developed a replacement style (Lit-par-Lit?) very very fine grained - dominantly feldspar - foleo-form discontinuous flooding - no cross-cutting. With this foliation to SE (above and ~~trend~~ apparently trending away from the underlying Kqm) where is the conduit from the Kqm? See 25 July - first recount of area.


Blocky
Chl
Chl +
Fe Ca Zo
Musc/Chl
Phyllite
Tourmaline
Silic qtz musc schist
syenite
Silic schist
qtz stringers
Looking West

II

Jo Dodge

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Whitehorse, Yukon
411 Strickland Street
Y1A 2K3

LEVEL BOOK
ALL WEATHER

+5C

28 July Pty sunny

Old NIK claim post SSE of camp
YB 51023 5470'
61° 01.805
131° 03.957
Non-porphyritic Kqm

Located sub-crop, large (50cm) boulders on-line 60°[illegible]° Az with 2-spring qtz breccia (16 July). Tourmaline-qtz vein breccia - some Felx + qtz stringers in med. Kqm.
5428' 61° 31.134
131° 03.717
Photo 2 samples (A) w. tourmaline, (B) Kqm Felx qtz stgrs.

Surprise - hitting last quartz hump before leaving - this led to upheaving & large boulders (probably sub-crop - of identical 'breccia' of July 16 - on strike, too. Unclear whether a breccia (sense stricto) as qtz seems to "digest" the altered (Kqm) resulting in apparent islands of ↗.

28 Jul cont'd.

A latter site noticed what is likely a 'kill' patch of toxic soil. Need to trace this indicater E joining up with the 16 July trend.

Will be interesting to compare samples from tourmaline stringer and those of only qtz stringers in weak to extensive altered Kqm.

+8°C

29 July Sat.

RAIN – one of most continuous have experienced in Yukon – 4am – 9pm w one 30 min break for grub. around 3 pm

30 July Sun. 7°C → 15°C

Although Bar rising markedly entire area covered by grey clouds – no wind to make a change.

12 Caribou 'Herd' near camp. – unafraid as long as I remain motionless.

New outcrop – presumably the footwall of the hydro-qtz zone. ~~Platy~~ 113Az – 70°N Hyena markings

5390' 61 31.140
131 03.798

Exposure - bedrx through above turf.
In place 1+m wide - 1m Strike

7m downslope is Pink/Blue ribbons
with VR (or R") 60 142 & 143
my estimate 1998 or 99

31 July mon. Clearing 6° lt wind

Drying tents early a.m.
Trans North helicopter pick-up noon time. — drove Ross River to Whitehorse p.m.

10 Aug - Thur.

Potato Lake Camp

64° 34.084 = 20"

131° 09.588 = 35"

3800 alt.

This a breached glacial lake

Est. 10 yrs ago - from willows growing on former lake bed. Appx 15 m below old shoreline.

"Potato" from shape of lake when topo map of Mink Creek - 105G11 was made - now not so "potatoey".

Carried camp gear 60 yds up from mucky shoreline to sandy site - formerly shore. Where wee creek cuts through slumped shoreline, excellent display of folding of sand/silt interlayering ≈≈→ 1m amplitude.

Before rain - poked around bouldery N-shore 100 m to east. 100% crowded feldspar porphyry Kgm - large (5cm) phenocrysts.

11 Aug Fri -1° - ice in pail

Windy - 4 heavy showers in afternoon

Extended exam of old shoreline eastward and across end of former lake. The dominance of Kgm continues. Strikingly porphyritic in contrast to the Kgm of the July camp area several km to the south. Not only because of 'crowded' texture of phenocrysts, but also here the felds. laths are clearly flow-parallel like an armada of ships. Question is obvious - is this suite from the same Kgm or another up-ice - mapping by T-Klerat indicated the July Kgm eastern border lies some 2 km east of Potato Lake.

Lite aircraft (wheels) circled camp low altitude & flew on easterly - noon.

2 young bull caribou

+2°C

12 Aug. Sat

Gusty, rain until noon. — Loon calls.

Continued prospecting bouldery SE area of old shoreline. Concluded 95% gross porphyritic Kqm; 3% ultramafics (peridotite, amphibolite, pyroxenite, serpentinite); 1% ortho-gneiss; ½% bull qtz vein; ½% combined musc schist, metaqtzite, biotite schist, skarn.

The < 1cm old beach sand is 50% black argillite & slate — 50% the above assortment.

Only 2 examples of late white qtz veins (2cm) cutting por. Kqm.

Sulfides confined to (a) qtzose bands in silicified meta-sediments and (b) py, cp in one sample of siliceous siltstone. Thus, not much implication of sulfide in near upice bedrx. However, pyrite in banded metaqtzite does keep open possibility of a "Hoole R. Zn boulder".

13 Aug Sun +6° Low, completely overcast + drizzle

Repeated search of cobble-sized — 5m lower than major Kqm boulder horizon primarily @ former lake waterline — primarily on NE sector of former lake shore.

Here por. Kqm 65%; orthogneiss 30%; remaining 5% about equally as musc schist, basalt, bull quartz weakly limonitic.

14 Aug Mon. +6°C Drizzle all day

Hi Grade - Zn + Cu.
@ 61° 34.35'
131 09.205'

Boulder 30cm across - no sign of rounded edges. Obvious sulfate (creamy) coating of sulfide-rich bands - lesser sulfate on disseminated patches of sulfide.

Stratiform bands 0.5-1.0 cm thick separated by off-white fine grained host quartz. Guess is Zn 7% Cu (cp) 0.5% pyrite <0.1%. Perhaps some galena.

Late white qtz (1 cm wide) stringers cut across bands occassionally.

All evidence compares closely with the Hoole River Zn boulder!!!

Partly because of virtual absence of pyrite - am beginning to consider

that genetically this more closely fits a SEDEX rather than MVS type. Could a replacive origin be at hand. Lake of agrite (as MVS) would not have offered a typical "heavy" gossan - and thus could have been unnoticed by prospectors.

The quartz (metaqtzite??) host may well be the Ecc unit - and I shall work up-ice - don't see how this boulder could have "survived" more than 4-5 km of glacial transport/abrasion.

The stratiform banding augers well for intensive search (in this forest-covered terrane) for the source horizon. Hopefully, stream/soil geochem will work. Lack of massive sulfides could impede interpretation of air geophysics.

15 Aug Tues +5° Gloom
Rain retreating to steady drizzle.

Spent only 4 hrs out - soaked
Lack of any sunny periods over past 4 days makes field work happenstance - fogged lens, etc.

Didn't find more fragments/boulders of yesterday's morale-lifter.

+1°C

16 Aug. 16 Wed Continued steady fog-cloud-drizzle. Lonely Loon calls

Back in same shoreline. Spotted two cobbles-small boulders of grey hydrothermal quartz with distinctive pyrite "necklaces" of very fine grain in seams. Some chalcopyrite lending a malachite-green to some patches of qtz. Should geochem assay this as potential up-ice Au potential.

One large (60cm) boulder old shoreline E end of lake - banded qtzite with two 4cm layers of fine grained, sparse sulfide producing rusty, soft recessive outcrop. This could be the general siliceous "package" of PE_{sc} - cliffy outcrops are possible.

17 Aug Thur:

17 Aug Thur

Boulder – fine gravel, laminated garnetiferous –

Felx 10 cm, then qtzose bio schist/massive weathers

61° 34.147
151° 09.201

Photo

E end lake.

18 Aug. Fri +8° weebit of sun - 2 hrs.

Followed prominent game trail east from Potato LR. No outcrops - muskeg - 3 km

Lunch to Wend #3 Lake (E of Potato)

@ 61°34.607
131° 07.640

+4°C

19 Aug Sat.

ugly explosive low bar pressure cyclone-like upper clouds.

Worked up south 1 km in brush & old fire downs to low cliffy outcrops of weakly (scattered - not crowded) feldspar porphyritic Kgrn. No sulfides or hydro-quartz veining.

20 Aug Sun. Slicker & Rubber boots day
Heavy drizzle +6°

Southeast corn lake.

61° 34.035
131° 09.158

Massive boulder – sharp edges
Silicified laminated rx –
grey on fresh break.

Sphalerite ?, Chalcopyrite spots

Could be the "key" bed near
the Kgm.

Photo 2

+5°C

21 Aug - Mon. Very low bar. Still, sunny breaks

W. end of lake
@ 61° 34. 057
131° 10. 851

Viewed breached outlet glacial sediments. Approx 15m drop in lake level. Catastrophic rush of exiting water as a quite torential destructive force depositing silt-to giant-boulder spill on outflow creek for 1.5 km

Grant beaver house now perched 15m above lake level - excellent opportunity to see that 50% was underwater and 2 entries sub-surface. Some of mass of logs in construction were up to 25cm diameter.

No sulfide-bearing float seen at west end of Potato Lake.

22 Aug Tues

+4°C

Rain - will it ever end. Hand lens has moisture accumulating between the 2 lenses — blurred vision / will bring a 2nd one next season as backup.

Revisited "caterpillar" boulders — which display such a neat lineation fabric (doesn't appear layered) — the feldspars (up to 7cm) are phenocrysts — not Porphyroblasts — i.e. no flow lines wrapped around feldspar xtls. Matrix appears to be Kgm too as 2-3mm crystals feldspar, qtz, biotite

+1°C

23 Aug Wed. Snow at 6000' on mtns to west. Bar rising

Re-examined glacial drift SE corner of former Lake shore - with intent to collect specific styles of the Kqm coarse (bouldery) to cobble sized

95% 1. Coarse qm w. large (4-8 cm long) feldspar phenocrysts - crowded and parallel swarm - in intrusive mush.

<1% 2. Medium qm w. stubby phenocrysts - occassionally crowded.

<1% 3. Quartz-eye porphyry - Kqm with round, black-replacing, 2-3 mm dia qtz phenocrysts, Kqm medium to mostly fine grained. NO feldspar porphyry.

Am contemplating having Be ICP run on these 3 styles of Kgm to see if get 'kick' such as the soils on MAU1. near similar phase-types of Kgm

24 Aug Thur

−2°C
clear, still
bar normal

22 duck feeding along shore

called Blacksheep re pickup tomorrow

Sorted (and culled) rocks from last 10 days. Many rejected once exam under sunlite cf. 5 days no sun + drizzles.

Close exam reveals (in some of Zn samples) needles - like tourmaline. But could these be tourmaline replaced by Sph.? Odd thought, but considering possibility of an overall ~~WEST~~ SLOPE setting; I wonder if maybe most of Felx is from pyrite & min_cp.

25 Aug Fri Fog and drizzle.

Called Black Sheep 8 am to advise that ceiling only 100 m and visibility < 3 km past Fox leaving Whitehorse.
Same @ noon; same at 3pm
No flight today.

26 Aug Sat Fog & drizzle

Virtually same radio (Globalstar) schedule & weather as on 25th

27 Aug Sun - mist ceiling 300m

Confirmed fly-in weather —
Black Sheep float plane at noon.
Drop off @ Ross River & drove to Whitehorse beginning 2:30 pm

.034
60
.204

60
03
.18

588
6
3528

Black sheep - 867-668- 7761

"A"

BASE CAMP

"B"

BASE CAMP

Kqm

Pn

PEsc

PEsc

PIPk

4000

4500

5000

5500

61° 33'

61° 30'

131° 00'

131° 07'

105G-11

105G-06

COACH

INK

TAPE

JB

CHUB

YMIP 2000
J.S. DODGE

1500' 0 1500' 3000' 4500'
SCALE

2000-004

A I N S

3900
Photo 9
Photo 8
Photo 10
Photo 7
BC
4600
105G-11
Kqm
4800
4300
4000
5700
5000
Kqm-sparse phenocrysts
Photo 1
Silicified tourmaline
Syenite plug
Musc, Chl, Qtz wacke
35
Chlorite phyllite
Ferroan dol
Ferroan dolomite
Mafic qtz vein
5200
Ferroan dolomite
30
Chlorite phyllite
35
BC
Kqm por(?)
5800
45
Photo 2
Photo 3
Photo 4
Biotite Phyllite
Musc Chl Qtz schist
Black Z Shale
Photo 5/6
VEIN
25 m
Au, As, Bx
Grey, Chl Bio Qtz schist
4600
61°30'N
131°00'W
10'
05'
81
82
83
84
85
86
87
88
90
91
1.0 Km
392000m. E
105G-11
N
EEK

Kqm. stock
Basecamp site
Prospecting area
Fault zones (mineralized)

o a standard

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Certains noms inscrits sur cette carte ne sont

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INS
REV
STR
UN
SAT
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POTATO LAKE

XBC

3500

4000

4500

5000

5500

6000

Kqm

COACH

YB69048 YB69049 YB69050 YB69051 YB69052 YB69053 YB69054 YB69055 YB69056 YB69057 YB69058 YB69059 YB69060 YB69061 YB69062 YB69063 YB69064 YB69065 YB69066 YB69067

VEIN
As, Bi

Notch

BC

A

B

35'

10'

05'

61° 30'

131° 00'

TIN

TIN

105 G-11

PROSPECTING AREA

QUARTZ MONZONITE STOCK

BASE CAMP

7500' 6000' 4500' 3000' 1500' 0'

FEET

N