GEOLOGICAL SUBVEY CLAMOR ASSESSMENT REPORTS

DEC 0 4 1996

ASSESSMENT REPORT GEOLOGY AND DRILLING REPORT

on the MASS CLAIM

CARIBOO MINING DIVISION

Latitude 52° 44'N

Longitude 121° 22'W

NTS 93A/11W, 14W

bу

R. Yorston, Geologist

December 1996

GEOLOGICAL SURVEY READER
ASSESSMENT REPORT



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SUMMARY

Percussion drilling at a roadcut showing on the Mass claim has returned very anomalous values of Cu, Pb, Zn, Ag and Au in the top 60 feet (18.3 m) of two drill holes. Over a 10 foot (3.04 m) drilling interval values ranged up to 1766 ppm Cu, 746 ppm Pb, 2969 ppm Zn, 4.8 ppm Ag and 792 ppb Au.

INTRODUCTION

During the period September 3 and 4, 1996, two holes were drilled near the road edge from a truck mounted percussion drill rig. The holes were placed to test a zone containing lenses of pyrite and lesser chalcopyrite exposed in a road cut and an old trench.

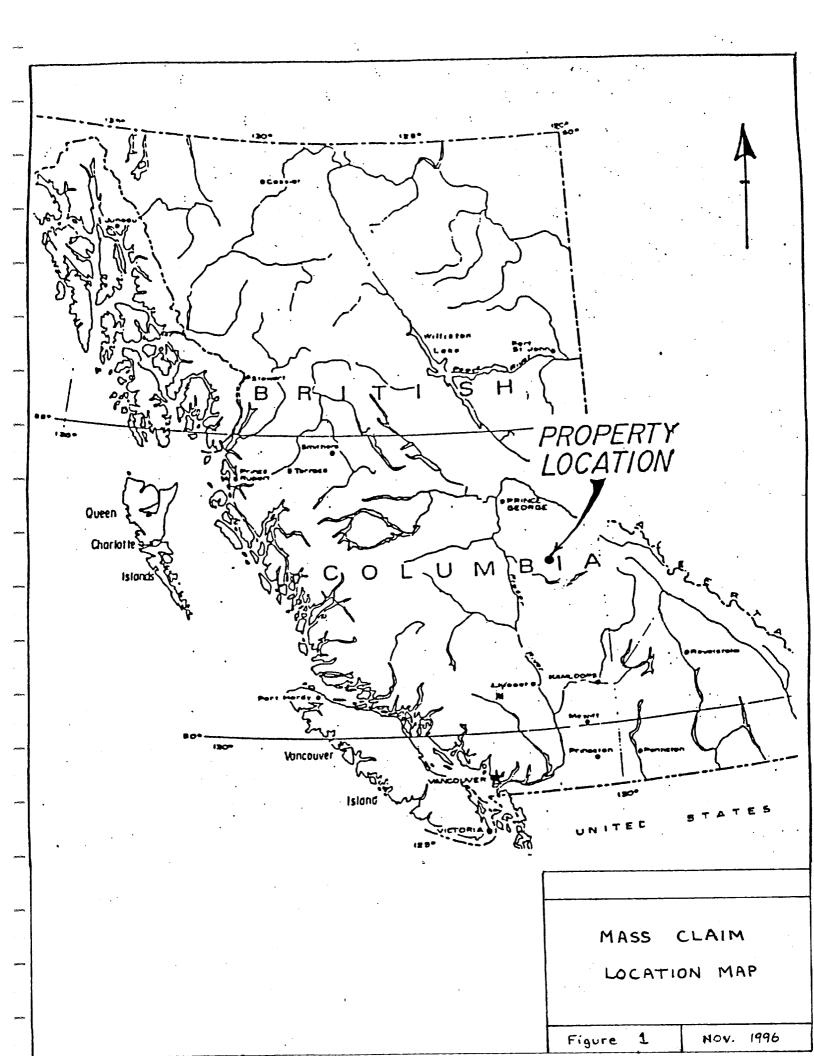
LOCATION, ACCESS AND PHYSIOGRAPHY

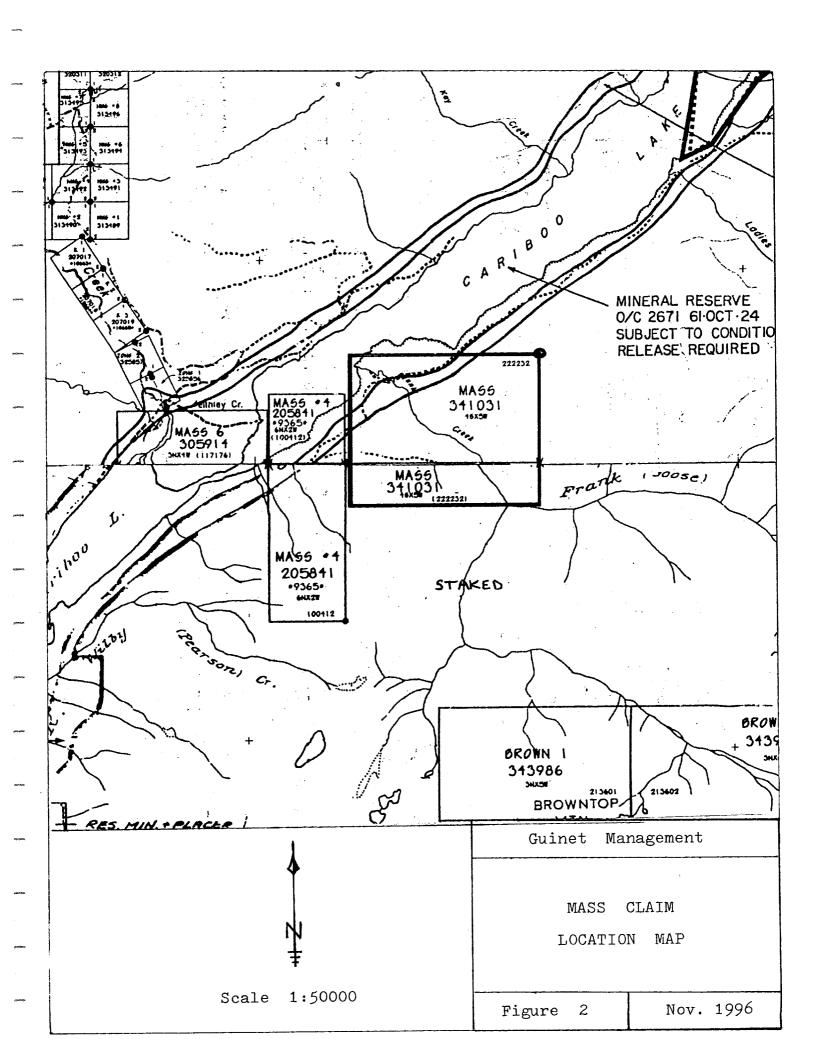
The claim is situated on the south side of Cariboo Lake, approximately 15 km northeast of the village of Likely B.C. The claim is accessible by all-weather logging roads from Likely. The 8400 road which begins just south of the Cariboo River, leads to spur 8400 D which gives direct access to the claim.

Elevations on the claim range from 812 metres at Cariboo Lake to about 1200 metres. The claim is mainly covered by overgrown logging slash.

CLAIM STATUS

The property consists of one 20 unit claim staked by R. Yorston in 1995. Record #341031





PREVIOUS WORK

Placer mining activity in Frank creek during the period of 1984 to 1986 had exposed some boulders of massive sulfide.

In 1987, the area was staked by Golden Eye Minerals as the Mass group of claims.

In 1988, Formosa Resources Corporation optioned the Mass claims and carried out grid soil sampling, VLF-EM surveys and geological mapping over portions of the Mass claims. This work delineated a number of exploration targets consisting of coincident electromagnetic and coincident zinc-in-soil anomalies which Formosa geologists believed might be caused by massive sulphide mineralization.

In 1991, Rio Algom Exploration Inc. optioned the Mass property and conducted a program of reconnaissance mapping, prospecting, silt sampling and an airborne EM survey. Numerous EM conductors were identified by the airborne survey.

In 1992, Rio Algom continued exploration with more detailed surveys consisting of geological mapping, ground geophysical work, geochemical sampling and an excavator trenching program.

REGIONAL GEOLOGY

The Mass claim lies in the Cariboo Gold Belt (Struik, 1988) in the Barkerville Terrane, one of four fault-bounded stratigraphic and tectonic terrains that were deposited in an ocean and consisting of continental shelf and slope clastics, carbonates and volcaniclastics.

Geology of the area consists of the Harveys Ridge succession, a member of the Palaeozoic Snowshoe Group and consists of quartzite, phyllite, schist, siltite, limestone, conglomerate and metatuff.

Regional geology in the immediate area of the Mass property consists of undifferentiated Snowshoe Group rocks to the east and Harveys Ridge succession to the north. To the west, the rocks are the Hadrynian(?) Keithley succession, consisting of quartzite, phyllite and minor marble. An intrusion of Palaeozoic Quesnel Lake granite orthogneiss occurs in this succession.

Structurally, the area is dominated by a northwest-striking, moderately southwest-dipping foliation, as determined from abundant metasedimentary rocks in the area. The Lightning Creek anticlinorium (a northwest-trending structure) occurs five kilometres north of Frank Creek. Structural disturbance was accompanied by regional prograde and retrograde metamorphism to a chlorite-grade facies.

The NTS 93A/14 mapsheet was mapped by L.C. Struik in 1977 - 1982 and released as map 1638A which accompanies GSC Memoir 421.

CLAIM GEOLOGY AND MINERALIZATION

Rocks containing the mineralization consist of a massively interbedded sequence of black phyllite and a pale greenish to tan coloured sericite and chlorite altered fissile unit.

Lenses of translucent grey quartz mainly in the light coloured unit can carry abundant fine and coarse pyrite and milk white lenses to 10 cm widths in both units contain goethite but little sulfides. Generally the milk white lenses fill cross fractures.

Stratigraphically the lowest part of the showing is a sheared light green schistose unit containing gobs and lenses to 5 cm of massive pyrite and lesser chalcopyrite. The interface between the black phyllite and the greenish unit may be important for localizing the mineralization. The black phyllite may be locally graphitic.

The rocks at the showing area strike about 130° and dip about 50° to the southwest. Apparent bedding plane movement between and within the units has produced breccia zones containing variable pyrite, chalcopyrite, malachite and covellite within the ground mass surrounding clasts of black and greenish phyllite and an occasional rounded clast of what appears to be altered greenstone.

The old trench was dug on a 2 metre wide breccia zone containing abundant secondary pyrite. Smaller breccia pods of a few centimetre widths are discontinuous within the black phyllite but usually they contain secondary copper minerals.

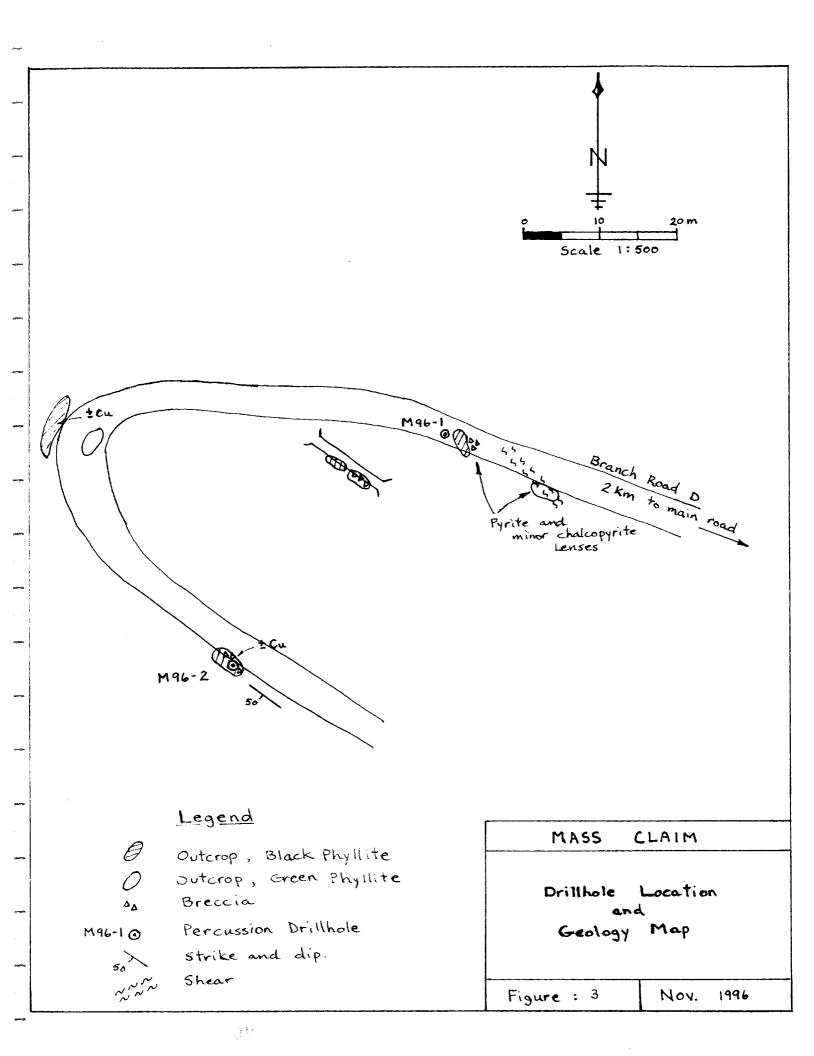
Altered greenstone is exposed in the road cut below the main showing. The greenstone may be sill-like in form and it may be related to the apparently conformable shear or breccia orientations at the showing. Its presence explains the greenstone clasts in the breccia.

The greenstone where altered is variably brownish coloured with carbonate and talcose alteration. It can also contain minor disseminated secondary pyrite and mariposite. It is non-magnetic where altered but fresher material contains magnetite.

Since the altered greenstone may be intimately associated with the mineralization a low magnetic signature or a magnetic crossover may be expected when searching for similar zones.

DRILLING

Two holes were drilled on the claim from an existing roadway. The drilling was contracted to H.N. Horning Percussion Drilling Ltd. of Kamloops and the total footage drilled was 200 feet (60.9 m). The holes were drilled vertically or subvertically without water and the sample return consisted mainly of fine dust with an occasional chip. A generalized geologic log of the holes was determined mainly by the colour of the returned dust and the log sheets are included in the appendix.



Both holes were sampled at 10 foot (3.04 m) intervals and the samples were treated at Acme Labs of Vancouver using the 30 element ICP plus geochem Au analysis. The results of analysis sheets are listed in the appendix.

The high Ca values contained in hole 1 from 70-100 feet may indicate the carbonate altered greenstone or may indicate dolomite or a dolomitic section of the greenish phyllite. On surface the greenish phyllite does not fizz to dilute HCL.

CONCLUSIONS AND RECOMMENDATIONS

Both percussion drill holes on the Mass claim encountered very anomalous base and precious metal values in the top 60 feet (18.3 m) of each hole.

Lenses of pyrite and lesser chalcopyrite to 5 cm widths occupy shears and irregular, but possibly conformable, breccia zones.

The anomalous metallic mineral assemblage and the semimassive sulfide occurence at the road showings indicate potential for economic grade massive sulfides.

Further work should focus on tracing the mineralized horizon along its projected strike direction with the anticipation that better sulfides probably exist at more favourable geologic or structural areas.

REFERENCES

Martin, L S

Geological, Geochemical and Geophysical
Report on the Mass Property, 1989.
BCDM Assessment Report

McClintock, J A

Mass and Annex Options. Geology, Geochemistry
and Geophysics, 1991. BCDM Assessment
Report

Donaldson, W S

Mass Property. Geology, Geochemistry,

Geophysics and Trenching, 1992.

BCDM Assessment Report

Struik, L C Structural Geology of the Cariboo Gold
Mining District, East-Central British
Columbia. GSC Memoir 421, 1988

APPENDIX I

CERTIFICATE

- R. YORSTON OF DUNCAN, B.C. CERTIFIES THAT:
 - 1) I am a graduate of the University of British Columbia. BSc
 - 2) I have practiced my profession since 1972.
 - J have personally conducted the work program discussed in this report.

R. Youto

R. Yorston
Stoltz Road RR2
Duncan, B.C.
V9L 1N9

December 1996

APPENDIX II

STATEMENT OF EXPENDITURES

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200' @ \$7 Per Foot \$1498.00

Personnel:

R.	Yorston - Geologist	2md @ 235	470.00
ν.	Guinet - Helper	2md @ 200	400.00

Expenses:

Mobilization	\$ 748.00	
Assays	325.28	
Materials	100.00	
Accomodation and Meals	60.72	
Fuel	56.00	
Report Preparation	500.00	
	\$1790.00	1790.00

Total Program Expenditures \$4158.00

APPENDIX III

DRILL LOGS

HOLE No. M96-1

SHEET 1 OF 1

	METRES			_	ASS	SAY I	mara
FROM	TO	m	DESCRIPTION	Cu	Pb		
rnum	10	111		 			
	6.09		Black Phyllite	1766	241	635	2.
	9.14		·	1180	67	508	1.0
9.14	12.19	tı .		1426		842	3.
12.19	15.24			1556	369	1333	4.
15.24	18.28	4	Green Phyllite, minor pyrite	684	345	1028	2.
18.28	21.33	ıı	droom ingerioo, mriior pyrroo	441	108	203	1. 1
	24.38	1 B		215	54	303	. 9
24.38	27.43	э	pyrite to 3-5%	1	16	157	۷.
	30.48	1 1		92	i	l	1
2 7, 73	30.78	u	water at 27.43m	71	32	132	۷.
			,				
			,				
			· · · ·				
		1		1	1	1	1

SHEET 1 OF 1

HOLE No.

M96-2

HOLE N	0.	TAT.	96-2	SHEE		UF .	
ME	TRES					AY P	рm
	то	m	DESCRIPTION	Cu	`Pb	Zn	Ag
3.04 6 6.09 9 9.14 1:	.04	3.04	Black Phyllite, minor pyrite Green quartz Phyllite and Black Phyllite Black Phyllite, trace cpy	739 261 231 202	746 140 328 126	882 2969 1542 1620 1356	2.6 2.7 .8 1.7
24.38 2		11 ts	Greenish-grey Phyllite, 2-3% pyrite water at 24.38m increased quartz at bottom	572 89 76 125 232	138 61 57 79 75	1316 364 177 22! 205	1.0 2.3 2.3 2.3 2.6

APPENDIX IV

ANALYTICAL DATA

ACRE ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER BC VOA 1R6

ACME ANALYTICAL LABORATORIES LI

GEOCHEMICAL ANALYSIS CERTIFICATE

Guinet Management File # 96-4310 Page 1
310 Nigel Ave, Vancouver BC V5Y 2L9

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SAMPLE#	Мо ррп	Cu ppm	Pb ppm	Zn ppm	Ag	Ni ppm	Co	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	pp m	Mg %	Ba ppm	Ti %	ppm	Al %	Na %	К %	ppm	Au* ppb
M 96-1 10-20 M 96-1 20-30 M 96-1 30-40 M 96-1 40-50 RE M 96-1 40-50	1 1 1 2	1766 1180 1426 1556 1562	241 67 219 369	635 508 842 1333	2.4 1.9 3.2 4.8 4.8	41 31 34 29 26	25 1	450 1 447 1 1021	9.92 10.49 10.30 7.64 7.61	55 156 108 136 141	<5 <5 <5 <5 <5	<2 <2 <2 <2 <2	4 4 5 3 4	6 5 7 7 7	1.2 1.2 2.3 4.2 4.2	<2 <2 <2 <2 <3	11 23 10 12 10	31 29 24 9	.18 .15 .13 .12	.011 .023 .016	7 5 8 8 8	31 2 26 3 14	2.49 2.69 3.12 1.99 1.98	18 < 18 < 14 < 22 < 24 <	<.01 <.01 <.01	<3 2 <3 2 <4 4	.80	.01 .01 .03 .04	.05 .03 .05 .08	<2 2 2 12 12	2 3 6 140 396
M 96-1 50-60 M 96-1 60-70 M 96-1 70-80 M 96-1 80-90 M 96-1 90-100	2 1 1 1	684 441 215 92 71	345 108 54 16 32	1028 203 303 157 132	2.8 1.6 .8 <.3 <.3	29 31 38 33 32	13 1	1221 1211 1123	7.96 8.02 5.67 4.46 4.12	92 49 25 27 23	<5 <5 <5 <5	<2 <2 <2 <2 <2	4 5 7 8 7	17 11 84 77 68	2.5 .6 1.1 .5 <.2	2 <2 <2 <2 <2	4 7 4 4 2	4 6 3 4 3	.44 .25 3.49 3.86 2.94	.014 .040 .035	9 8 11 13 14	10 11 8	2.56 1.51 1.47 1.53 1.92	37 · 59 · 50 ·	<.01 <.01 <.01 <.01 <.01	उ उ उ उ	.79 .32 .51 .40	.05 .03 .02 .02	.09 .12 .18 .20 .18	3 3 <2 2 3	13 792 9 3 2
M 96-2 4-10 M 96-2 10-20 M 96-2 20-30 M 96-2 30-40 M 96-2 40-50	1 1 1	1444 739 261 231 202	140 328	802 2969 1542 1620 1356	2.6 2.7 .8 1.7	45 95 59 57 51	22 1 16 1 19	1908 1637 1777	8.84 9.62 6.63 8.36 7.28	296 140 116 174 59	<5 <5 <5 <5	<2 <2 <2 <2 <2	3 5 7 7 8	5 9 10 9 8	1.2 7.1 3.9 4.2 3.1	2 3 <2 <2 <2	13 7 3 10 5	69 9 5 5 6	.19 .22 .20	.015 .044 .070 .059	6 8 16 14 17	38 13 12	.87 2.56 1.60 1.62 1.35	50 · 58 ·	<.01 <.01 <.01 <.01 <.01	3 · <3 · 3 · <3	.42 .55 .54 .62	.03	.05 .12 .19 .20	<2 <2 <2 <2	2 24 2 5 3
M 96-2 50-60 M 96-2 60-70 M 96-2 70-80 M 96-2 80-90 M 96-2 90-100	1 1 1 2	572 89 76 125 232	138 61 57 79 75	221	1.0 <.3 <.3 <.3	45 45 40 34 26	16 16 12	1639 1448 1638	8.04 5.49 4.77 6.99 6.94	74 46 60 30 39	<5 <5 <5 <5 <5	<2 <2 <2 <2 <2	6 8 7 8 8	9 14 22 13 9	2.9 .4 .3 <.2 <.2	<2 <2 <2 <2	9 <2 2 <2 5	4 4 4 3	.53 .97 .50	.034 .057 .041 .029 .021	14 19 16 15 16	8 8	1.42 1.36 1.38 1.25 .95	62 58 60	<.01 <.01 <.01 <.01 <.01	<3 <3 <3 <3 <3	.46 .43 .38 .36 .36	.03 .03 .03 .03	.22 .22 .20 .18	<2 <2 <2 3 3	23 2 41 3 3

STANDARD C2/AU-R 20 61 41 146 7.0 74 34 1235 4.04 37 18 8 35 53 20.6 16 21 75 .55 .106 42 67 1.04 208 .08 28 2.11 .06 .15 11 476

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HN03-H20 AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.

THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB

- SAMPLE TYPE: P1 TO P6 CUTTING P7 ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

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

DATE RECEIVED: SEP 6 1996 DATE REPORT MAILED:

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