BRANDYNINS PROJECT

Fass Claims 1 - 98; 201 to 206; 208 to 221

Situated 32 miles north of Squamish, British Columbia at latitude 50°10', longitude 123°07' - Map Sheet 92J/3

Vancouver Mining Division

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by J. R. Woodcock

J. R. Woodcock Consultants Ltd.

1521 Perderton Avenue

North Vancouver, B. C.



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25	o #10	Silver in Soil	In Pocket

BRANDYWINE PROJECT

INTRODUCT ION

A preliminary appraisal of the Fass mineral claims was done by reconnaissance geochemical sampling along all draimage features crossing the claims. Silt samples were taken along the major draimages and from every small incoming stream or gully. Where there were large spaces without incoming side streams, widely spaced soil samples were taken.

Between June 25 and July 3, 1973, a two-man orew (Marvin Currey and Roy Beaton) sampled all the drainages below the anowline. A two-man crew (Marvin Currey and Howard Hong) returned to the area in August (August 7 to 17, 1973) to complete the sampling of the higher areas.

After appraisal of the geochemical survey by J. R. Woodcock, a two-man erew consisting of a geologist (A. J. Audst) and a prospector (N. Wychopen) went to the area to prospect, map and soil sample a small area on the western side of the claim group. This last phase of the work was done between August 29 and September 1, 1973.

LOCATION AND ACCESS

The Fass claim group is 32 miles north of Squamish at latitude $50^{\circ}10^{\circ}$, longitude 123°07' on Map Sheet 92J/3.

The claims are within two miles of an all-weather logging road, and 10 miles from a paved highway. Access to the southern part of the claims can be from this logging road; however access to the central parts of the claim group must be by helicopter. A Jetranger helicopter is based at Mt. Whistler, six miles to the east of the claim group.

Elevations on the claim group vary between 3000 and 6000 feet. The terrain is very steep with considerable areas of rock exposure on the higher portions. Soil is either very shallow or absent over most of the area, although a thick blanket of organic material covers much of the rock outcrop. The southern part of the area and also the valleys in the northern part of the claim group are forested with large yellow cedar, balsam and hemlock. Even in the areas of widespread vegetation, there are many cliffs of dioritic, sedimentary or volcanic rock.

CLAIMS AND OWNERSHIP

In September of 1972, Marvin Currey staked 96 Fass mineral claims in his own name for J. R. Woodcock, and in July and August, 1973, he staked an additional 20 Fass mineral claims.

In September, 1973, assessment work was applied to 29 of the original



Fass mineral claims on the south central, west, and southeast parts of the large claim group. The remainder of the original Fass mineral claims were allowed to lapse. The claim data and the claim status are shown in Appendix I.

GENERAL GEOLOGY

The Fass mineral claims are in the centre of the Coast Crystalline Complex in an area of very sparse published geological data. The geological map of British Columbia shows that the region is underlain by Faleozoic or Mesosoic sedimentary and volcanic rocks intruded by acid and intermediate rocks of the Coast Crystalline Complex.

The Pass mineral claims have not been completely mapped; however some observations were made by Audet and Wychopen. A dark digritic rock, containing erratic pyrite, occurs over much of the west soil grid area, with some outgrops of intermediate volcanic rock on the southern part of the grid. To the east of the grid, north-trending cliffs are composed of fine-grained cross-bedded sedimentary rocks. In the southern part of the claim group (Fass 1, 2, 51) the rocks are largely intermediate volcanics containing abundant pyrite and epidote.

A gold - silver vein occurs in intermediate volcanic rocks on the Warman claim group about one mile south of the Fass claims. This property, presently held by Northair Mines Ltd., is being explored by surface and underground methods, with encouraging results.

GEOCHEMISTRY

Geochemical Techniques

Drainages in the area of the Fass claims were sampled in detail. Streams were traversed and sampled at intervals, and silts were taken from all incoming small drainages. Where there were extensive stretches of valley lacking incoming streams or guillies, soil samples were taken.

The type of sample is indicated on the sample number map by a latter at the end of the sample number. The latter "L" indicates silt taken from sorted material of a stream bed. The latter "G" indicates a soil sample taken in the bottom of a gully which is intermittently permeated by surface waters draining down the gully. The latter "S" indicates a soil sample, generally taken from the "B" horizon.

The soil samples from the western grid were collected at 100-foot intervals along flagged lines. The soil is a podsol and the samples were taken from the B horizon. Hotes on the drainage characteristics and the vegetation, stc. were made on field sample sheets.

All samples were placed in wet-proof manilla envelopes and shipped to Vangeochem Lab Ltd. where they were dried and sifted to -80 mesh. The -80 mesh portion was analyzed for copper, lead, zinc, and silver. Summaries of the analyzical techniques are included in Appendix II.

- 2 -

The analytical results were plotted on a base map prepared by enlarging an air photo overlay by a factor of two, to give a scale of approximately 1" = 1600". Separate maps have been made for each of the metals and for the sample numbers.

Frequency distribution graphs or histograms for each of the metals were constructed in order to aid in selecting threshold values, and also in selecting divisions for the colour code on the maps. Instead of using means and standard deviations to select anomalous values, the values are divided into enough classes (denoted by colours) so that variations throughout the map area can be detected as well as the cutstanding anomalous values. In general, the blue and the green represent background values, the yellow represents threshold values, the orange represents anomalous values and the red represents outstanding anomalous values.

Stream Geochemistry

A histogram for copper indicates that the threshold value is about 160 ppm. The threshold value for sinc is about 300 ppm; but values between 240 and 300 ppm are within a somewhat erratic threshold range. The threshold value for lead is 70 ppm; those values between 55 and 70 ppm are within a threshold range and could be significant if associated with other anomalous values.

Anomaly 1.

Sample M73-555L from a very small tributary on the northwest side of the main northeasterly valley (Fass 75 mineral claim) contains 223 ypm copper and is therefore anomalous. However it is not anomalous in zinc, lead, or eilver. It is bounded by non-anomalous small drainages immediately to the north and to the south, and therefore the source is not of great extent. Follow-up work is not warranted.

Anomaly 2.

Along the west part of the Fass claim group is a very small lake in which the outgoing stream has threshold values in sine (sample M73-485L) and in lead (sample M73-488L). The drainage pattern indicates that these samples could be from the drainage basin of the little lake. This factor would enhance the anomalies as generally such small lakes extract most of the matals.

Anomaly 3.

The highest lasd value (400 ppm) was obtained in a soil sample (M73-608S) near the southeast end of the main lake within the Fass mineral claims (Fass 40 claim). This sample also has above average sinc content. One suspects that the anomalous values could be concentrations in black soil. A field examination and possibly a short line of soil samples could give a definite answer.

Soil Geochemistry

The soil geochemistry on the west side of the Fass mineral claim group was confined to Fass claims 88 to 94 inclusive. It also extended around the southeast side of a small lake. Sampling was done on lines spaced 400 feet apart at 100-foot intervals along the lines.

Histograms of the results indicate that the threshold values are approximately as follows: lead 50 ypm, sinc 150 ppm, and silver 3 ppm.

Only three anomalous laad values were obtained and two of these (52 ppm and 55 ppm) are only slightly above threshold value. The other sample (140 ppm) west of the little lake is from a highly organic sample and therefore may be of little significance.

Only two anomalous sinc values were obtained (188 ypm on the north end of L 18+00E and 180 ypm southeast of the little lake). These are not significant sinc anomalies.

Three above background values for silver were obtained (3, 4, 4 ppm). These are barely anomalous values and do not correspond with the lead or the sinc values and therefore are of little significance.

One would conclude that the soil sampling on this small grid has failed to detect any significant anomalies.

CONCLUSIONS AND RECONNENDATIONS

- 1. The Fass claim group ties on to the north side of the claim block being explored by Northair Mines Ltd. Northair Mines Ltd. is investigating, by surface drilling and underground drifting, a high grade silver - gold - lead - sinc vein which cuts the intermediate or andesitic volcanic rocks and trends in a northwesterly direction.
- 2. Rock types on the Fase claim group include the intermediate and acidic valcanic rocks, sedimentary rocks, and intrusive rocks of the Coast Crystalline Complex.
- 3. Reconnaissance geochemistry of the drainage system yielded a few small anomalies. Most of these are single sample anomalies and merit no more than a cursory examination.
- 4. Soil sampling in a small area along the west part of the claims failed to detect any significant anomalies.
- 5. Assessment work (1 to 3 years) has been applied to 29 Pass mineral claims staked in 1972 and the remainder have been allowed to lapse. Fourteen of these mineral claims are in the south central part of the claim group adjacent to the Northair claims.

In addition, 20 Fass mineral claims were staked in 1973.

APPENDIX

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- I. Claim Data
- II. Laboratory Procedures

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III. Statement of Costs

MAP SHEE	7 92J		MININ	O DIV	ISION _	VANC	OUVER		/	PRO	Brandywine	-	ASS	ESSMEN	T			APP	LIED	
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VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA 604-988-2172

October 4, 1973

TO: J. R. Woodcock Consultants Ltd. 1521 Pemberton Avenue North Vancouver, B. C.

FROM: Mrs. Ena Agarwal, Chemist Vangeochem Lab Ltd. 1521 Pemberton Avenue North Vancouver, B. C.

1.

2.

SUBJECT: Analytical procedure used to determine acid soluble copper, lead, zinc and silver in geochemical samples.

Method of Sample Preparation

- (a) Geochemical rock, soil, or silt samples were received in the laboratory in 8" x 13" plastic sample bags, or in ¹/₂" x 9" cotton mailing bags, or in wet-strength 3' x 6' Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven.
- (c) The dried soil and silt samples were sifted by using a shaking machine using an 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (d) The dried rock samples were crushed and pulverized into minus 80-mesh. The pulverized sample was then put in a new bag for later analysis.

Methods of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).

page 2

(c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

Method of Analysis

Copper, lead, zinc and silver analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamp. The digested samples were aspirated directly into an air and acetylene flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit.

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The analyses were supervised or determined by Mrs. Ena Agarwal or Mr. Laurie Nicol and their laboratory staff.

Agarwal, Chemist, Provincial Assayer

VANGEOCHEM LAB LTD.

EA:mb

STATEMENT OF COSTS

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Brandywine Project

A. J. Audet Aug. 29 - 31 2-1/2 days \$100/day A. J. Audet Sept. 1 - 3 3 days \$100/day A. J. Audet Sept. 24 3/2 hours \$12/hr. A. J. Audet Sept. 24 1/2 hr. \$12/hr. A. J. Audet Sept. 24 1/2 hr. \$12/hr. A. J. Audet Sept. 24 1/2 hr. \$12/hr. Roy Beaton June 25 - 30 5½ days \$45/day M. Brooks Sept. 26-Oct. 4 9½ hours \$6/hr. C. M. Currey June 25 - 30 5½ days \$55/day C. M. Currey Aug. 29 - 30 5½ days \$55/day T. Drevs Sept. 11 - 1k 8½ hours \$6.50/hr. T. Drevs Sept. 24-Oct. 2 18 hours \$6.50/hr. T. Drevs Sept. 24-Oct. 2 18 hours \$6.50/hr. H. Hong Aug. 8 - 17 8½ days \$50/day M. Wychopen Aug. 29 - 31 3 days \$60/day J. R. Woodcock July 31-kug. 10 1/2 days \$175/day J. R. Woodcock Aug. 36 - 29 2 days \$175/day	st	Rate	Total Time	Dates Worked	onnel Costa	DT 80	Pe				
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J. R. Woodcock Sept. 4 - Oct. 4 12 days \$175/day Total Personnel Costs: \$3; DISPURSINGENTS Food and Accommodation \$ 503.94 Geochem Costs 1,134.60 Helicopter Costs 628.80 Equipment Rentals 413.52 Miscellaneous Supplies 132.64 Vehicle Rentals and Gas 44.06 Total Disbursements \$2,	350.00	\$175/day	2 days	Aug. 28 - 29	Woodcock	R.	J.				
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Helicopter Costs 628,80 Equipment Rentals 413,52 Niscellaneous Supplies 132,64 Vehicle Rentals and Gas 44,06 Total Disbursements \$2,			1,134.60		aem Costa	loch	Ge				
Equipment Rentals 413.52 Miscellaneous Supplies 132.64 Vehicle Rentals and Gas 44.06 Total Disbursements \$2,			628, 80		copter Costs	lic	He.				
Niscellaneous Supplies 132.64 Vehicle Rentals and Gas 44.06 Total Disbursements \$2,			413.52	1	ment Rentals	mip	Eq				
Vehicle Rentals and Gas 44.06 Total Disbursements \$2,			132.64	plies	Miscellaneous Supplies						
Total Disbursements			44.06	Vehicle Rentals and Gas							
	,857.56			Total Disbursements							
TOTAL COSTS \$6,	,675.81	R 8	TOTAL CO								

NOFE: Costs incurred after September 7, 1973 included in the above costs:-

Personnel	\$596.75
Disbursements	<u>43.07</u>
	\$639.82

30 28 85 $-\infty$ 86 83 Ì 500-84 **8**1 _2 82 208 209 0/01 79 0,0 80 24 210 23 211 77/ Q 78 hq~ 21 22 870-75 212 213 76 Ĩ 00 20 19 05 \mathcal{L} 214 10 73 215 74 0/0-18 17 10 . \$ 8. -0-217 216 61 62 06-02 6/8 | 16 15 71 59 72 60 \ 14 13 57 69 6 58 10 12 H^{-} 55 67 56 68 53 54 65 66 0 00 51 52 63 64 Ø0ģ í ුරු. Department of Mines and Potenburn Recources A ... E. Suiter REPURT NO 4652 MAP # To accompany report on Fass Claims --1 - 98; 200 to 206; 208 to 221, in the Vancouver Mining Division, British Golumbia, by J. R. Woodcock Octover/4, 1973 Codesch CALTOR SYNDICATE <u>PROJECT</u> BRANDYWINE CLAIM LOCATION MAP 4652 (FASS CLAIMS) VANCOUVER MINING DIVISION Scale - linch = 1/4 mile J.R.WOODCOCK CONSULTANTS LIMITED -----Figure No - 2 September 1973

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Departments of Departments of Mines and do r Loop Resources Addeddie, r addorf No. 4652 Moths No. 4652 Moths To accompany report on Fass Claims 1 - 90; 201 - 206; 208 - 221, In the Vancouver Mining Division, Interior Collembia, by J. R. Woodcook. (atobor 16, 1973 Machadom
20	CALTOR SYNDICATE
	BRANDYWINE PROJECT (FASS CLAIMS) LEAD IN SOIL
	VANCOUVER MINING DIVISION
	Scale linch = 400 feet
.	J.R. WOODCOCK CONSULTANTS LIMITED
	Sept 1973 Figure No - 8

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Department of De
	CALTOR SYNDICATE
	BRANDYWINE PROJECT (FASS CLAIMS) ZINC IN SOIL VANCOUVER MINING DIVISION Scale Linch = 400 feet J.R.WOODCOCK CONSULTANTS LIMITED
	Sept 1973 Figure No - 9

1.0 1.5 1.0 1.0 0.5 *1.0* 1.5 1.5 -1.0 1.5 1.0 -1.5 Department of 1.0 0.5 1.0 1.0 0 1.0 0.5 1.0 Minos and Family a Resources 0.5 1.0 -1.5 0.5 0.5 ASUELSMENT REPORT 1.5 0.5 1.5 1.5 1.0 0.5 1.0 1.0 ių, 1.0 MP #10 00+8 NO. 11.0 0.5 00 E 1.0 To accompany report on Fass Claims --4 10 1 - 98; 201 - 206; 208 - 221, In the Valesburg Mining Division, Baiston, Calagada, by J. R. Mosleook. 0.5 1.0 1.0 Chicken to 1018 oodcor 4 1.ll 0.5 1.0 1.0 CALTOR SYNDICATE 11.0 0 + 00 BRANDYWINE PROJECT (FASS CLAIMS) SILVER INSOIL MINING DIVISION VANCOUVER Scale - linch = 400 feet J.R.WOODCOCK CONSULTANTS LIMITED Sept 1973 Figure No - 10