

ASSESSMENT REPORTS

MAP No.

TYPE OF WORK:

Drilling - 3000m.

REPORT FILED UNDER	Arctic Gold and Silver Mines Ltd.	
DATE PERFORMED	March 4, 1957	DATE FILED: Feb. 1958
LOCATION - LAT.	Arctic, I.T.	
LONG.		
CLAIM Nos.	New York	
WORK DONE BY	DeLong, Campbell & Associates	
WORK DONE FOR	Arctic Gold and Silver Mines Ltd.	
REMARKS	<p>Soil sampled in front of hole for 102 m. of core. 7.045 samples were taken. The samples were analyzed for arsenic and silver. Results shown on top.</p> <p>The Arctic Drift is located within a granitic stock including dolomite + calcite.</p>	

DOLMAGE CAMPBELL & ASSOCIATES
CONSULTING GEOLOGISTS
808 BANK OF CANADA BUILDING
VANCOUVER B.C.

Arctic Gold & Silver Mines Ltd.

Summary Report

EXPLORATION WORK ON CARCROSS, Y. T. PROPERTY

31 March, 1967 - 27 September, 1967

Feb. 1, 1968.

D.D. Campbell
C.R. Saunders

Dolmage-Campbell & Associates Ltd.

Vancouver, Canada.

DOLMAGE CAMPBELL & ASSOCIATES
CONSULTING GEOLOGISTS
ROB BANK OF CANADA BUILDING
VANCOUVER, B.C.

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INTRODUCTION

In accordance with the required information for the Northern Mineral Assistance Grant the following report presents a brief description of the geology, history and work done on the mineral property of Arctic Gold & Silver Mines Ltd. at Carcross, Y.T.

Appended to the descriptive portion of the report is a complete list of the diamond drill holes drilled during the exploration of the deposit in the designated period. Maps showing the location of these drill holes; of an exploration adit; and of the area covered by a geochemical soil sampling programme are attached.

EXPLORATION WORK

PREVIOUS WORK:

The Arctic property was acquired by purchase, option and staking in 1964-65-66. The six properties, the Big Thing (now known as the Arctic Caribou), the Montana, the Uranus, the Mountain Hero, the Jean and the Joe Petty, all silver-gold occurrences, had not been seriously worked since the district had experienced minor production activity in 1910-15. Underground workings, which existed on the Big Thing and the Montana were blocked by ice in 1965 and for only one, the Big Thing, were any old records available. These indicated that 3,000 tons of silver-gold ore grading 1-2 oz/ton gold and 100-200 oz/ton silver had been shipped in 1915. There was no indication of what ore, if any, remained.

RECENT WORK - to 31 March, 1967:

Bulldozer trenching and dump sampling by Arctic Gold & Silver Mines Ltd. in 1965 indicated fair surface continuity and good grades in both the Big Thing and Montana veins. Because the former property was closest to Carcross, Yukon and in addition had old records available for it as mentioned above, it was

decided to concentrate work on it to determine the ore potential, if any, of that property alone. Accordingly a programme of exploration was started on the Big Ining in late 1965.

In view of the fact that permafrost made surface stripping slow and difficult and surface diamond drilling may not have been definitive enough for a high grade vein deposit of this type, the decision was made to collar a new adit, drive a cross-cut to the vein, drift on the vein and break it to and open the old workings. The cross-cutting, drifting and raising portion of this programme was completed prior to 31 March, 1967. However, diamond drilling was continued during the period 31 March, 1967 to 27 September, 1967.

RECENT WORK - 31 March, 1967 - 27 September, 1967:

Caribou (Big Ining) Property: Underground diamond drilling was done for the purpose of exploring beyond the old workings to determine if enough ore was available to support an economic mining operation. Some surface drilling was done concurrently to supplement the underground programme. A listing of the individual drill holes with accompanying assays for the period in question is appended.

Jean Property: Four exploratory diamond drill holes were drilled from near the face of the Jean adit. These holes and the results obtained are appended.

Montana Property: An adit, 807 feet long, and two surface diamond drill holes were completed as initial exploration on this property. A plan of this work is attached.

Geochemical Soil Sampling: A programme of taking soil samples to determine anomalous metal content was completed, except for some assay determinations, during the designated period. A total of 101 miles of sample lines were surveyed and marked and 7565 samples were taken. The samples were assayed for arsenic and silver, the results plotted and anomalous values determined. Several anomalies were found on which it is planned to do further work. A map showing the area covered by the programme is attached.

MINE GEOLOGY

The Arctic Caribou Mine is located within a granodiorite stock intruding sediments and volcanics of Mesozoic age. All other known deposits on Arctic property lie within amygdaloidal volcanics of the Hutshi Group of Cretaceous age.

All of the known ore occurrences on the Arctic property are vein deposits with principal values being in silver and gold. The veins are relatively narrow but

high grade with local ore shoots grading as high as several ounces per ton in gold and hundreds of ounces per ton in silver.

The veins are comprised of grey-white generally cherty quartz containing local nests and veins of comb quartz. The most widespread sulphide is arsenopyrite but there are also local concentrations of galena, sphalerite, chalcopyrite and freibergite. Pyrite is uncommon within the veins but is widespread in the adjacent wallrock.

The veins are extremely variable in widths, ranging from a maximum of 5 ft. to stringers a few inches in width. Average width of the Arctic Caribou mine is 2-3 ft.

No regional or major faults are known in the area but a number of faults have been exposed underground at the Arctic Caribou mine. The faults belong to two sets, both vertical, one striking eastward and the other northward. Both sets displace the veins about 15 ft. vertically.

ORE RESERVE: Enough silver-gold ore has now been outlined by the old workings and by the exploration diamond drilling programme whose individual holes are appended to this report (and a previous report covering the period Nov. 12, 1966 to March 31, 1967) to warrant placing the mine in production at 200 tons per day. Most of the ore outlined to date occurs on four veins in the Arctic Caribou mine. Results from the geochemical soils survey are sufficiently encouraging to project a life for the mine many years beyond the proven and well indicated ore.

Respectfully submitted,



Douglas D. Campbell, P.Eng., Ph.D.

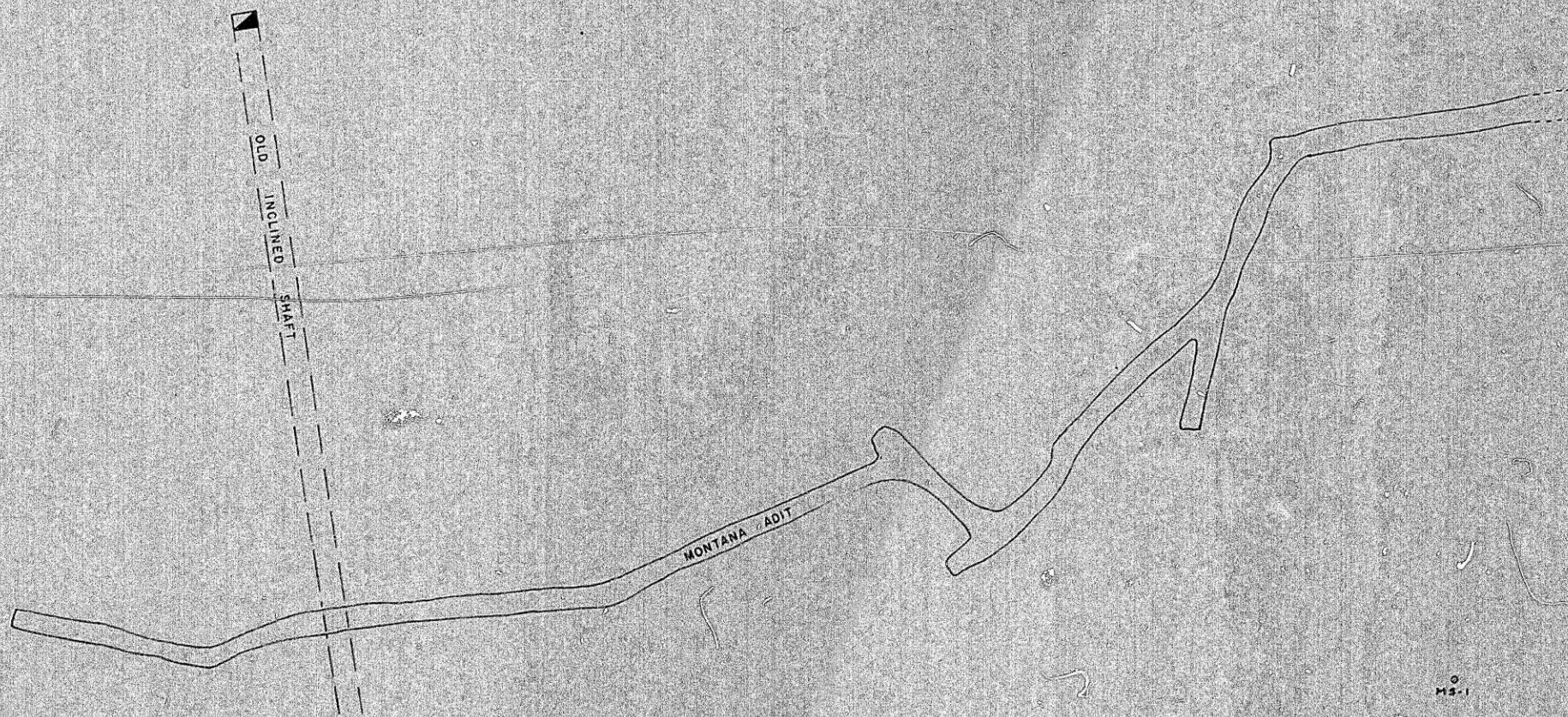
APPENDIX

List of all diamond drill holes drilled during the period 31 March, 1967 to 21 September 1967 with pertinent assay data.

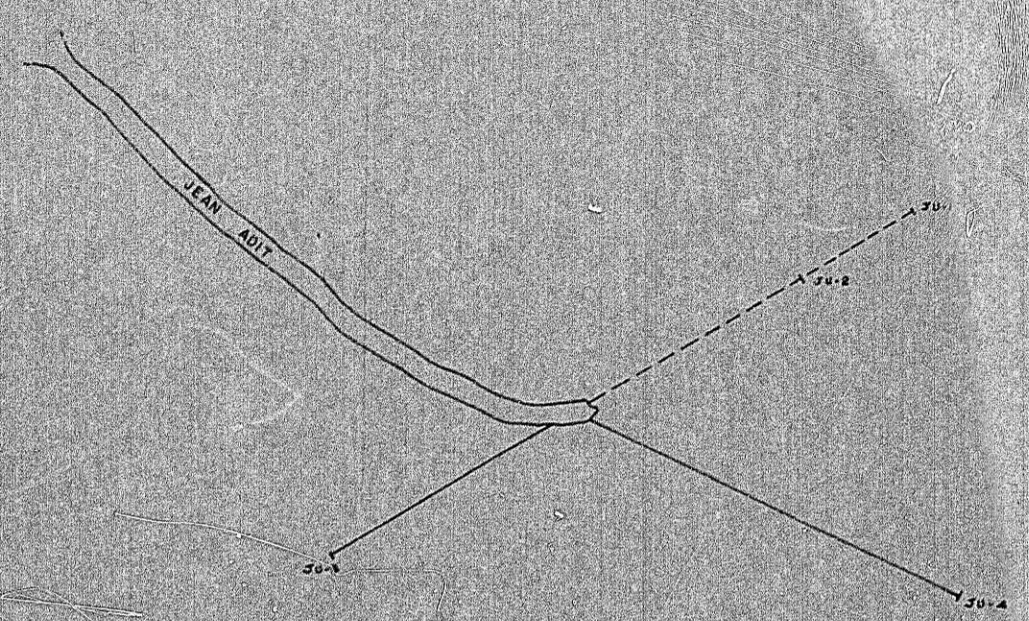
Hole No.	Length	ASSAYS											
		From	To	Au	Ag	From	To	Au	Ag	From	To	Au	Ag
U164	153	21.3	22.3	Tr	4.1	83.1	91.6	.10	4.3				
U165	151	26.9	27.9	.10	14	85.7	85.5	Tr	7.3	87.2	86.2	.05	13.4
		94.4	95.6	.14	6.3	26.0	27.7	Tr	22.7				
U166	132												
U167	151												
U168	86												
U169	149												
U170	151												
U171	120	4.3	7.5	.28	16.6	42.0	45.5	.54	19.6				
U172	220	135.0	137.4	.20	.3	151.4	152.4	.05	1.3	156.7	157.5	.26	2.7
U173	151												
U174	127												
U175	104	92.4	93.9	.14	.7								
U176	243	178.9	182.9	.66	4.2								
U177	199												
U179	180	110.7	114.2	.28	2.4	118.2	122.1	.14	.6				
U180	180	96.3	97.8	.04	4.1	156.2	160.0	Tr	2.3				
U181	120	2.2	3.4	Tr	2.3								
U182	99												
U183	121	102.5	110.6	.22	6.3								
U184	101												
U185	121	7.3	8.8	.10	1.6								
U186	76	51.3	58.9	.05	2.4								
U187	129												
U188	160												
U189	168												
U190	153	67.0	69.0	.48	.8	91.6	82.5	3.92	4.4	87.7	88.4	.10	.12
U191	87	36.0	37.3	.20	3.6	39.3	42.3	.83	3.1	58.8	57.2	.06	2.0
		62.4	63.4	.36	3.7								
U192	265												
U193	180	129.8	130.7	.08	1.3								
U194	75	15.2	16.8	.10	2.3								
U195	140												
U196	150												
U197	69												
U198	140												
U199	86	72.0	78.0	.03	29.5								
U200	80												
U201	132	49.0	50.0	.10	2.0								
U202	171	118.0	119.5	.02	5.0								
U225	108												
U226	190	10.8	13.6	.72	24.7	30.5	31.5	.08	1.0	43.7	45.0	.08	1.2
		70.1	71.2	.34	2.5	163.4	165.0	.16	3.2				



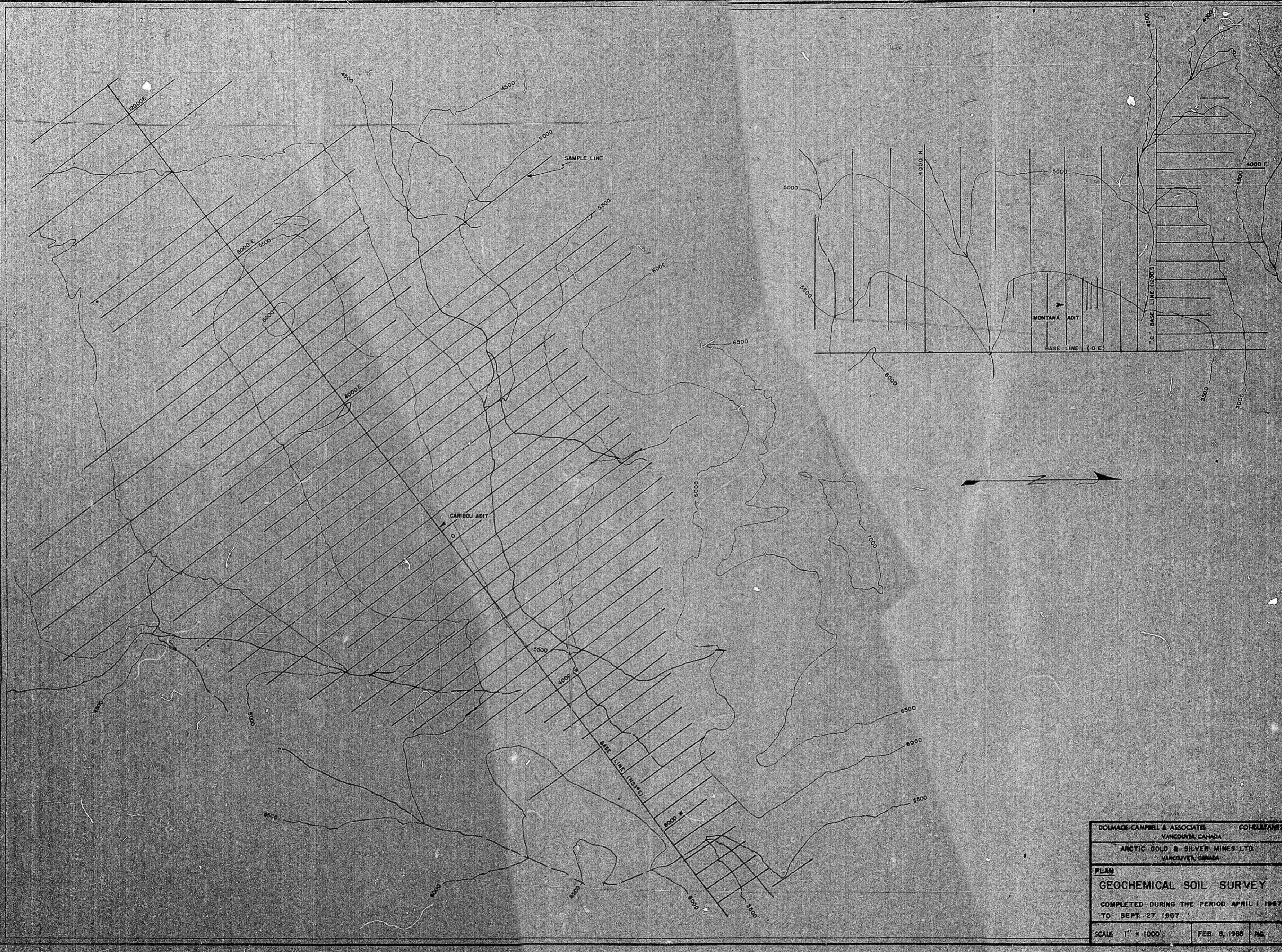
DOLMAGE-CAMPBELL & ASSOCIATES CONSULTANTS	
VANCOUVER, CANADA	
ARCTIC GOLD & SILVER MINES LTD.	
VANCOUVER, CANADA	
CARIBOU MINE	
DIAMOND DRILL HOLES	
COMPLETED DURING THE PERIOD APRIL 1 /67	
TO SEPT. 27 /67	
SCALE: 1" = 40'	FEB. 1, 1968



DOLMAGE-CAMPBELL & ASSOCIATES CONSULTANTS VANCOUVER, CANADA	
ARCTIC GOLD & SILVER MINES LTD. VANCOUVER, CANADA	
MONTANA ADIT	
DRIFTING & SURFACE DIAMOND DRILLING	
COMPLETED DURING THE PERIOD APRIL 1 /67 TO SEPT. 27 /67	
SCALE: 1" = 40'	FEB. 1, 1968



DOLMAGE-CAMPBELL & ASSOCIATES CONSULTANTS VANCOUVER, CANADA	
ARCTIC GOLD & SILVER MINES LTD. VANCOUVER, CANADA	
JEAN ADIT	
DIAMOND DRILLING	
COMPLETED DURING THE PERIOD APRIL 1 /67 TO SEPT. 27 /67	
SCALE: 1" = 40'	FEB. 1, 1968 FIG



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ARCTIC GOLD & SILVER MINES LTD.		
VANCOUVER, CANADA		
PLAN		
GEOCHEMICAL SOIL SURVEY		
COMPLETED DURING THE PERIOD APRIL 1 1967		
TO SEPT. 27 1967		
SCALE 1" = 1000'	FEB. 8, 1968	RD.