

671138

Report on Swan Claims, Sunaby Island,
Queen Charlotte Islands, B.C.

PROJECT: B.C. GOLD

CAMP: ALPHA

NTS: 103 B/6W

DATE: APRIL 17-30, 1981

CREW: J. PAUTLER

S. ANGUS

D. KAPICKI

ROCK SPECIMEN NO.S:	73806 - 73825	20
	92723 - 92741	19
	73657 - 73658	2

SOIL SAMPLE NO.S: 81-AU-A-1 to 81-AU-A-26
81-AU-A-501 to 81-AU-A-505
81-AU-A-1001 to 81-AU-A-1002

SILT SAMPLE NO.S: 81-AU-Z-601

NB. BULK SOIL SAMPLES: 81-AU-A-1, 3, 5, 7, 9, 11, 13, 15, 17, 18, 19,
20, 21, 22, 23, 25, 503

Report on Swan Claims, Burraby Is, Q.C.I, B.C.

Introduction: The Swan claims are located at the southeast end of Burraby Island, Queen Charlotte Islands B.C., (approximately 110 km south of Sandspit).

The campsite at Swan Bay is an open grassy area with a good beach which facilitates float plane and helicopter access. Water is available from a small creek which is located immediately adjacent to the site. The Swan claims themselves consist of an open forest of large cedar, spruce and hemlock with some windfall patches.

In the two weeks spent at Swan Bay, the only visitor was the egg lady, who lives in a cabin 3km west of Swan Bay.

The weather during the above period was rain with a few days of sunshine.

The Swan claims were stated in 1980 after the finding of a highly silicified zone at what is now the ^{high claim post} (H.C.P.). Further prospecting revealed a chalcopyrite-malachite zone at 1050 N, a chalcopyrite-malachite-sphalerite vein at 1200 N, and an outcrop of silicified limestone at 300E/30S. Low Au values were obtained for the silicified areas and soils from the property returned only high As results. This is very similar to Alder Island, at which high As in soils was obtained in an area with visible gold in outcrop.

~~Thus~~, The purpose of the 1981 program was to check the areas of high As in soils by taking bulk soil samples and analyzing the mid-density and heavy mineral ~~concentrate~~ fractions. It ~~was~~ hoped that this ^{would} yield the Au values that are, ~~so far~~, absent in the soils taken to date. To this end, 17 bulk soil samples were taken and sent to Overburden Drilling Management, 192 Powell Ave, Ottawa. (Refer to figure 1 for sample locations). The bulk samples consisted of approximately 20 lbs. of soil from the B horizon. An attempt was made at collecting soil profiles at these sites, but due to the poor development of soils on Swan, only 1 ~~soil~~ profile was obtained. Often windfall exposures had to be utilized for samples.

Prospecting was also conducted this year since the bulk sampling was completed ahead of schedule. ~~The results were extremely promising.~~ Many ~~new~~ highly silicified areas were uncovered as well as two magnetite showings, (one previously drilled by Mexican Mines International Ltd.), Additional chalcopyrite-pyrite-malachite-

sphalerite zones and a large area of quartzitic limestone with pyrite, ~~arsenopyrite~~ arsenopyrite ± chalcopyrite, were located

The silicified areas were found at 1350N/200W, 1350N/400W, 1000N/250W, 1070N/25W and 900N/500W. These areas consist of highly silicified limestone along the edges of the Kungur massive grey unit. Quartz is present in numerous veinlets throughout. Each silicified zone has a couple of meters of exposure. All the zones are in an area west of the north-south claim line, between 2N and 3N.

A silicified outcrop was found in a creek at 300W/200S. This outcrop and its associated silicified zone, (which extends along the creek in both directions), will be referred to as the south-west creek zone. The outcrop consists of highly silicified black limestone and is very similar to the LCP outcrop. Chip samples were taken and locations are shown in figure 2.

Other silicified outcrops similar to the last area were found at 150S/30E and 200S/150W

A large area from about 300N to 800N, which continues to ~~at least~~ the top of the hill to the east, and is cut off by a northeast trending fault near Poole Inlet, (FIG 1), consists of a 'quartzitic' limestone. The unit is the black limestone member of the Kungur Formation, as evidenced by the fossil Monotis which was commonly found on its bottom surface. It has a very light coloured weathered surface, is grey, aphanitic, finely banded and very quartz-rich. Arsenopyrite and pyrite ± chalcopyrite, are

found on fracture surfaces of the quartzite and ~~are~~ disseminated throughout. A sample of this taken in 1980 ran low Au, (100 ppb). Soil lines, run in 1980, yielded high As results for the area (FIG 1). These As values decreased drastically after crossing the northeast fault after which Karmutsen basaltic greenstone with small magnetite nodules, (2-3mm size), predominates, ~~(on the western edge of the claims)~~

The magnetite showings were found at 1350 N/450 W and 1300 N/250 W. The former consists of massive magnetite \pm abundant pyrite within the massive grey limestone unit. One of the silicified areas mentioned above is also present at this showing. Merican Mines International Ltd. drilled this showing with a winkle. Some of the core boxes remain and indicate two zones of magnetite approximately 1 meter wide. The showing extends about 30 meters on surface. The magnetite at 1300 N/250 W is not massive and was found in a limestone stain.

Additional chalcopysite - malachite - pyrite - sphalerite zones were found at 1350 N/200 W, which was silicified in part, and along the cliffs for 75 meters east of 1200 N. The latter areas were rusty veins within the limestone similar to the vein at 1200 N.

Detailed mapping at scales of 1:50 and 1:100 was conducted of the outcrops at the LCP, 300 E/30 S, 1050 N and 1200 N. Refer to Figures 3, 4, ~~and~~ 5 and 6.

A flux-gate magnetometer survey was not undertaken due to constant magnetic storms. In future, a survey is not recommended since it is impossible to run lines along the cliffs which is where the survey is needed. There is too great a distance between the top and bottom of the cliffs for a useful survey if lines were only run here.

Conclusion: Work to date has shown that the Swan claims are lightly mineralized. Abundant chalcopyrite, malachite, sphalerite, pyrite, arsenopyrite, magnetite and silicified zones have been found on the property. Camp Alpha feels that the amount of mineralization found here, especially for a region of limited outcrop, makes Swan a highly promising ~~area~~ property. Further work, although still depending on assay results, should include detailed mapping of the area and correlation of the mineralized and silicified zones.

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NTS 103 B/6W

SAMPLER J. Pautler

PROJECT B.C. GOLD - SWAN

LINE

DATE Apr 17 - 30, 1981

o/c = outcrop; lmot = limestone;

AIR PHOTO No.

SAMPLE NUMBER	LOCATION	ROCK TYPE	ALTERATION	MINERALIZATION	STRIKE / DIP	ADDITIONAL REMARKS	APPARENT WIDTH	TRUE WIDTH	ASSAYS			
									Au.	As.	Ag	Cu Zn
(1) 73806	150 S + 40 m E	lmo (bl.) + gtz breccia	silicified						<10	180		
(2) 73807	5 1/2 m. mark on LCP o/c.	sil. lmo w/	drusy gtz			chip sample mainly drusy gtz			<10	30		
(3) 73808	0-1 m from LCP o/c	v. sil lmo w/	gtz veining			chip sample			10	30		
(4) 73809	1-4 m LCP o/c	very silicified lmo (black)				chip sample			<10	27		
(5) 73810	5 1/2 - 7 m LCP o/c	sil. lmo - gtz breccia				chip sample			10	29		
(6) 73811	LCP o/c	sil. lmo (black) float.							<10	23		
(7) 73812	1200 N	mineralized vein		malach, cp sphal.					10	395	1.8	70,000
(8) 73813	1200 N		rusty fracture zone	cp, py, sphal?					<10	57	4.0	70,000 850
(9) 73814	1050 N	lmo stain		cp, malach, sphal.		etc + gtz crystals			70	165	12.0	70,000 2450
(10) 73815	1175 N + 10 E	lmo stain		sphal, cp, some malach.		angular float			<10	50	0.2	1500 78
(11) 73816	1175 N / 20 E	lmo lmo-stain	very rusty	cp, malachite	-	along cliff face			<10	22		70,000
(12) 73817	500 W / 50 N	quartz vein with lmo fragments	silicified			gtz vein 1 m long and 10 cm wide cutting lmo in small creek			<10	36		
(13) 73818	500 W / 300 S	sil. lmo							10	165		
(14) 73819	400 W / 1300 N	massive mgte				100' elev. above E of Poole Inlet			2600	7500		
(15) 73820	"	massive mgte w/ abundant py.				"			20	99		
(16) 73821	v. very sil lmo								20	73		
(17) 73822	600 N 100 W	QZTE (v. silicious) lmo (zb) with Monot's				py + aspy on fractures			10	33		
(18) 73823	550 N 60 W	"	"	"	"	float			<10	38		
(19) 73824	500 N + 60 W	same as above	except brecciated w/ lmo frags, sil. natip, py, aspy, cp.						10	25		950
(20) 73825	650 N + 100 E	same as 73823	py, aspy on fractures + disseminated throughout						<10	16		

Monot's on fracture surface

NTS 103 B/6W

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LINE _____

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PROJECT B.C. GOLD. SWAN CLAIMS

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SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				ppb		ppm		
											Au	As	Au	As	
APRIL 18 A-1	150-SOUTH - 40 EAST	12"	B	RUSTY BROWN	Fine Clay	-		MOD-STEEP	FOREST	BULK SOIL near A-80-349	<10	750	<10	620	H
2	"	"	"	"	"	-		"	"	Profile of Bulk soil A-1	10	750	<10	950	MD
3	500 E	12"	B	Brown	med. course	-		Slight-MOD.	"	Bulk soil at A-80-421	<10	160	90	90	H
4	"	"	"	"	"	-		"	"	Profile of bulk soil A-3	<10	125	<10	43	MD
5	300E	20"	"	light Brown	Fine-med.	-		Slight	"	Bulk soil at A-80-419		110	50	433	H
6	"	"	"	"	"	-		"	"	Profile of Bulk soil A-5	<10	160	<10	125	MD
7	400 W-100 N	24"	"	"	"	-		MOD-STEEP.	"	BULK SOIL at A-80-543			<50	433	H
8	"	"	"	"	"	-		"	"	Profile of bulk soil A-7	<10	110	<50	740	MD
APRIL 19 9	950 N	15"	"	RUSTY BROWN	COURSE	-		MOD	"	BULK SOIL at A-80-1111			<50	107	H
10	"	"	"	"	"	-		"	"	Profile of Bulk soil A-9.	<10	110	<10	90	MD
11	255 N	20"	"	Brown	Fine MED.	-		STEEP	"	Bulk soil at A-80-546			<10	32	H
12	"	"	"	"	"	-		"	"	Profile of Bulk A-11	<10	110	<50	73	MD
13	250 W-100 W	20"	B-C	White-Brown	Course clay	-		Slight-MOD.	"	Bulk soil between A-80-1106 and 1107			80	19	H
14	"	"	"	"	"	-		"	"	Profile of Bulk A-13	<10	36	20	24	MD
15	50N-50W	20"	B	orange-Brown	Fine	-		MOD	"	Bulk soil A-80-1108			<10	94	H
16	"	"	"	"	"	-		"	"	Profile of Bulk A-15	10	315	<10	125	MD
APRIL 20 17	1200N-20 E	"	B	orange BROWN	"	-		STEEP-V. STEEP.	"	Bulk soil, at A-80-104			<10	70	H
18	1050 N-200 E	"	"	"	COURSE	-		"	"	Bulk soil near A-80-348			<10	65	MD
19	650 N-300 W	"	"	Brown	Fine-MED.	-		Slight	"	Bulk soil at A-80-527			<10	46	H
APRIL 21 20	1350 N-50 E	"	"	light Brown	Fine	-		MOD.	"	BULK SOIL at A-80-551			<10	20	MD
													<50	195	H
													<10	145	MD
													<10	200	H
													<10	128	MD

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SAMPLE NO.	LOCATION	Depth	Horiz	DESCRIPTION				SLOPE	VEG.	ADDITIONAL OBSERVATIONS OR REMARKS	ASSAYS				
				Colour	Part Size	% ORG.	Ph				Aw	As	Au	Ag	
APRIL 21 81 Au A-21	1300 N-100 W	20"	B	Orange Brown	Fine	-		mod	Forest	Bulk soil			180	41	H
22		20"	B	light Brown		-				Bulk soil at A-80-1052			140	7000	H
APRIL 22 23	960 M on 2-Post claim line SW from top of hill	20"	B	Brown	Course	-		mod		near A-80-548 in small gully			70	>1000	MD
24		10"	B	light Brown	Course	-				under detrop fall, same loc. as rock - 92725	<10	36			
25		20"	"		Fine clay.	-				Bulk soil at A-80-542			50	260	H
APRIL 24 26	SW creek zone. 300W-200S	15"	B		Fine	-				AT edge of outcrop on bank of creek. sil zone.	<10	55	<50	250	MD

