## ASSESSMENT REPORT ON STAN CLAIM GROUP

VANCOUVER MINING DIVISION, BRANDYWINE CREEK AREA, BRITISH COLUMBIA

## LOCATION:

N.T.S.: 92 J-3E LATITUDE: 50° 05'n. LONGITUDE: 123° 11'w.

## CLAIMS:

STAN1 (#2295) STAN2 (#2350) STAN3 (#2351)

# RECEIVED

JUN 1 9 1992

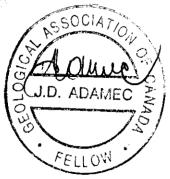
Gold Commissioner's Office VANCOUVER, B.C.

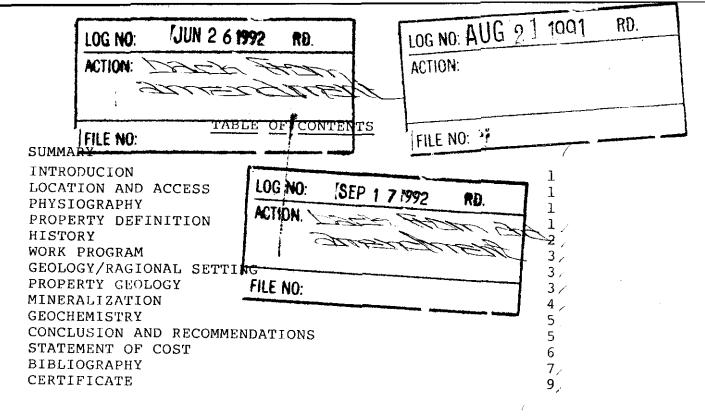
#### PREPARED BY:

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July 1991

21,596





APPENDIX A. CERTIFICATES OF ANALYSES

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GEOLOGICAL BRANCH ASSESSMENT REPORT

AFTER PAGE

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#### SUMMARY

The Stan Claim Group, consisting of 45 units in 3 modified grid claims in Vancouver Mining Division near Whistler, B.C. The property has excelent access from Vancouver via Highway 99 and the Brandywine Creek loging road system. The Stan property is situated northwest of Silver Tusk Mines Property. The Northair deposits are about 3km north.

The Stan property is underlain by quartz diorite intrusions of the Coast Plutonic Complex and a package of intermediate, greenschist facies, meta-volcanic rocks. The geological setting and the northerly to north-northwesterly structures on the Stan Property are similar to mineralized structures on the adjacent Silver Tusk Mines and nearby Northair Mines properties.

The previous work consisted of about 25 km of VLF-EM and magnetometer survey,636 soil samples and 99 rock samples. The surveys have been successful in defining a number of multi-element soil geochemical anomalies with gold values to 123 ppb, silver values to 6.5 ppm, copper values to 4725 ppm, and molybdenum values to 128 ppm. Grab sample 89KSR 015 contained 13971 ppm copper ,19.7 ppm silver and 9150 ppb gold and a o.5 meter chip sample 89 KSR 011 contained 20539 ppm copper, 22.8 ppm silver, and 260 ppb gold. Magnetic anomalies "A" trough "E" and VLF-EM anomalies "A" trough "E" were defined.

In 1990 a total of89soilsamples were collected along the line at elevation of 3700 feet with moderate values in copper to 26ppm,gold values to 4 ppb,zinc values to 77 ppm.

Considering the encouraging results obtained from exploration programs, further , staged exploration of the Stan Property is recommended as suggested by Dr.P.Christopher P.Eng. (1990)

#### INTRODUCTION

The Stan property comprising three contiguous claims is located in the Coast Mountains of Southwestern British Columbia. The property is owned by J.Adamec. The assessment work was carried out in November 8-11 1990 and also May 1-6 1991 to satisfy assessment requirements.

#### LOCATION AND ACCESS (FIGURE 1)

The Stan Property is located in the Coast Mountains of Southwestern British Columbia about 14 km southwest of the ski-resort of Whistler and 80 km north of Vancouver, British Columbia. The claims are in the Vancouver Mining Division and N.T.S. map sheet 92-J-3E at geographic coordinates 50° 05'N. latitude and 123° 11'W. longitude. The claims are situated in the headwater area of Brandywine Creek about 7 km northwesterly from Daisy Lake.

Access to the property from Vancouver is via Highway 99 to the Brandywine Creek Logging (Silver Tusk Mine) Road which extends northward about 8 km to the southern property boundary. Logging operations throughhout the property have resulted in network of two and four-wheel drive roads on the property. The British Columbia Railway branch from Vancouver to Lilloet follows Highway 99 From Vancouver to Pemberton.

#### PHYSIOGRAPHY

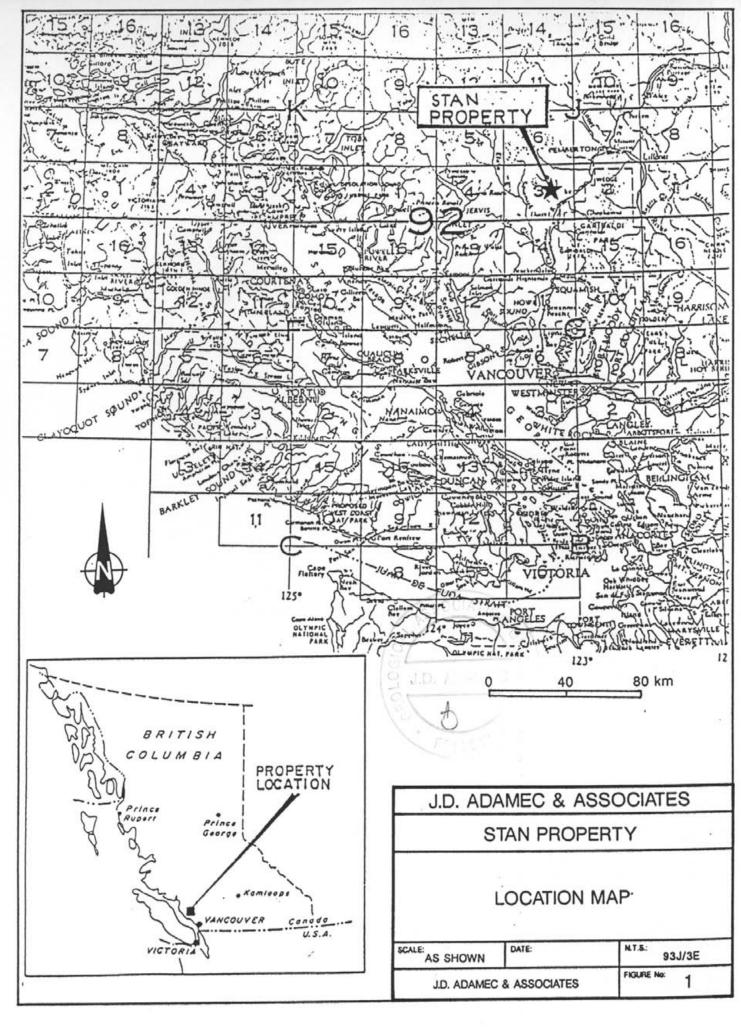
Elevations on the property range from about 2700 feet (823 metres in the Brandywine Creek Valley to about 5600 feet (1707 metres) with moderate to very strong relief of 884 metres. Vegetation is typical of coast rain forest with most of the Stan 1 claim being recently logged for commercial stands of hemlock, yellow cedar and balsam.

#### PROPERTY DEFINITION (FIGURE 2)

The property comprises three contiguous mineral claims, as follows:

TABLE 1. Pertinent Claim Data

Name	Rec. #	Units	Record date	Expiry*
Stan l	2295	20	May 10/88	1991
Stan 2	2350	15	Sept 25/88	1991
Stan 3	2351	6	Sept 24/88	1991
*Prior to	Recording 1	991 Work Pro-	gram	



A

#### HISTORY

The first reports of exploration and mineral occurrences along the Pacific Great Eastern Railroad, now British Columbia Railroad, were made by Camsell (1917) in Summary Report, 1917, Part B, Geological Survey of Canada. In the 1924 Report of the minister of Mines, Brewer states that, "During 1924 discoveries were made by Helmar Hogstrom on a small tributary of the Brandywine River, about 3 miles westerly from McGuire Siding, which are of considerable importance and promice to supply a tonnage of ore and supplies for railway-haul during the coming season of of 1925." The discription apparently apply to the Astra and Cambria prospects (B.C. Mineral Inventory 92-JW #1) and Blue Jack prospects (B.C. Mineral Inventory 92-JW #3) operated in 1969 and 1970 by Barkley Valley Mines Ltd. and Van Silver Explorations Ltd. (now Silver Tusk Mines Ltd.), respectively.

The area appears to have received a number of prospecting efforts with a few small shipments from the Astra-Cambria and Blue Jack prospects prior to discovery of the Warman Property on Callaghan Creek in 1970 by Dr. M.P. Warshawski, an amateur prospector, and Mr. A. H. Manifold, a geologist. The Warman Property was explored and developed by Northair Mines Ltd. from 1972 to start of production in 1976. From 1976 to June 1982, the Northair Mines milled 345,700 tons yielding 166,582 ounces of gold and 845,854 ounces of silver with by-product production of copper, lead and zinc. Milling was suspended in June 1982 due to economic condition with reserves as of February 28, 1982 reported at 67,236 tons averaging 0.25 oz Au/ton, 0.77 oz Ag/ton, 1.25% lead and 1.90% zinc.

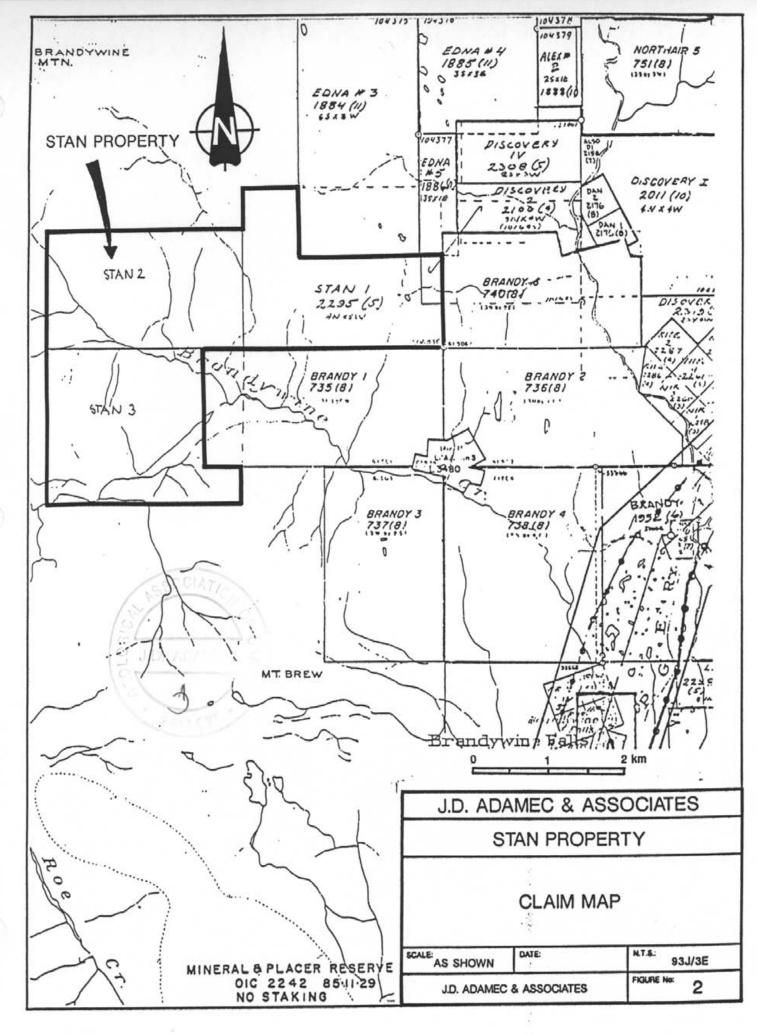
The Silver Tunnel prospect, situated about 2 kilometres southeast of the Stan Property has been owned by Van Silver Mines Ltd. (presently Silver Tusk Mines Ltd.) or associated companies since 1967. A mill was built on the property in 1977 to mine probable reserves at the Silver Tunnel prospect of about 112,00 tons reported to average 12.1 oz Ag/ton, 0.03 oz Au/ton, 0.19% lead and 0.34% zinc.

Acquisition of the Stan Claim Group was started by Dr. Juraj Adamec, geologist with staking of the Stan 1 claim on May 10, 1988. The Stan 1 claim area was formerly held as the Skyline claim on which no work was recorded. The Stan 2 and Stan 3 claims were added to the property in September 1988. Initial exploration of the Stan Property consist of a brief geological and geochemical prospecting program to satisfy assessment requirements. The prospecting program consisted of 47 rock samples and 10 silt samples with rock samples contained up to 4654 ppm copper, 9.2 ppm silver, and 98 ppb gold. A

The 1989 field program was mainly contucted on the Stan 1 claim. The work consisted of 28.75 km of surveyed grid with 800 metres of slope corrected baseline.

Geological mapping of the grid area was contucted by geologist Ken Karchman P. Geol.

A total of about 25 kilometres of magnetometer and VLF-EM survey was carried out over the grid area with readings collected at 25 meter intervals along lines.



#### WORK PROGRAM

Field work on the Stan property was mostly carried out from November 8-11 1991 and continued from May 1 to 6,1991 The initial work in 1990 involved contour sampling by two men crew. The field work resumed in May 1991, included additional prospecting. Contemporary conventional logging in the area made field work difficult but it has opend new showings(new road cuts, uprooted stamps) on the property for future exploration.

#### GEOLOGY

#### REGIONAL SETTING

The general geology of the Brandywine Creek area has been mapped by Roddick and Woodsworth, (1975), Mathews (1958) and Miller and Sinclair (1978; 1979). Figure 3 is after Miller and Sinclair (1978) MAPPING PUBLISHED IN THE B.C. Ministry of Mines and Pet. Resources Fieldwork 1977 and G.S.C. open file map 482 (Woodsworth, 1977). They show the Stan Property to be underlain by dioritic units of the Cretaceous or earlier Coast Plutonic Complex which host roof pendent of metavolcanic and related metasedimentary rocks. Northwesterly trending structures appear to localized Tertiary basalts which occur in the headwater area of Brandywine Creek.

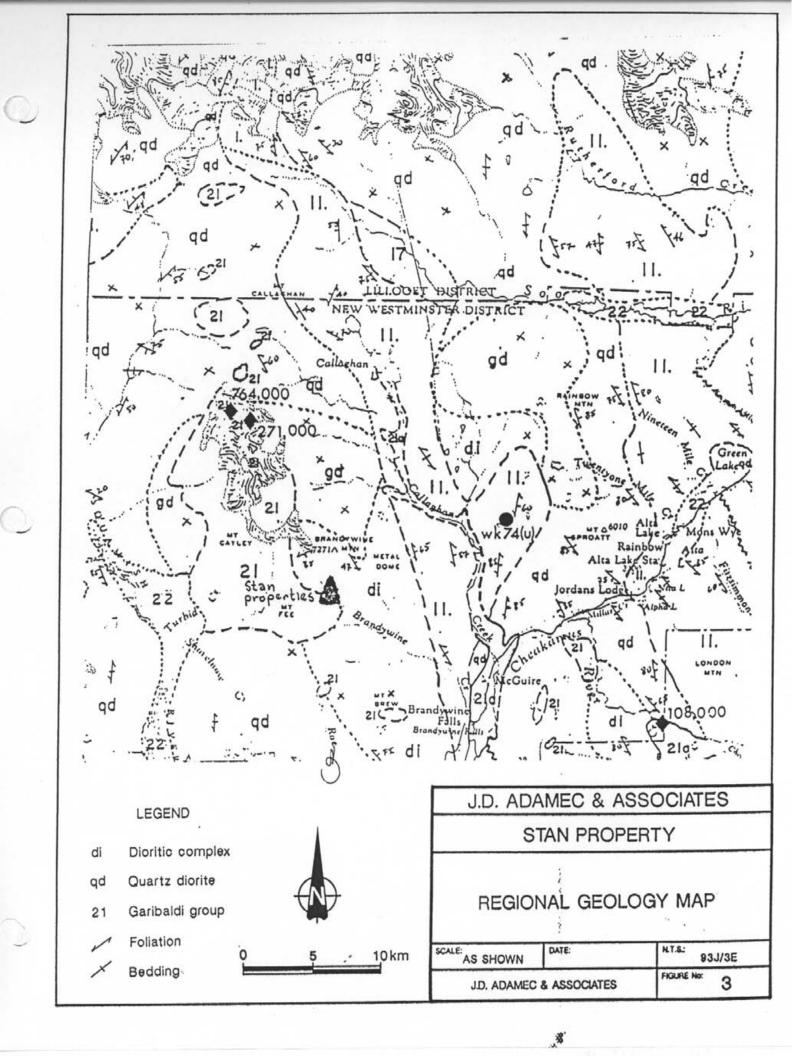
The north-northwesterly trend of Tertiary volcanic rocks is also reflected in the trend of the mineralized zones on the Warman Property of Northair Minec Ltd. The Warman , Discovery and Manifold zones on the Northair Mines Property are believed to have resulted from right lateral separation of a single mineralized zone along northerly trending fault structures.

#### PROPERTY GEOLOGY

The geology of the property is defined in two main units:
Unit 2. Coast Plutonic Complex: 2a. Grandodiorite, pale green,
pink, fine to medium grained, occasionally perthitic; 2b. Hornblenede
diorite, 15-35% hornblende, fine to medium grained, fractured, abundant
quartz and epidote veinlets;
2c. Hornblenede-plagioclase porphyry, dark grey aphanitic matrix, subhedra

2c. Hornblenede-plagioclase porphyry, dark grey aphanitic matrix, subhedral to euhedral hornblende, zoned plagioclase laths to 1 cm.

Unit 1. Greekstone, la. Probable andesitic composition, medium to dark green, sheared, occasional fine laminations, chlorotic, abundant epidote and quartz veinlets; lb. Agglomerate, occasional subrounded to clasts to l cm.; lc. Chlorite schist; ld. Hornblendite, 50% hornblende, gneissic, probably basaltic composition.



Previous mapping of the Northair Mines Property suggest that the greenstone unit may be subdividable into hornblendite, chlorite schist, agglomerate, and alyred andesitic volcanic. The granitic rocks consist of pale green, fine to medium grained granodiorite and fine to medium grained hornblende diorite with abundant quartz and epidote veinlets. Tertiary basaltic rocks have been mapped by Miller and Sinclair (1978) and Woodaworth (1977) in the area of Mt. Fee (Figure 3).

#### MINERALIZATION

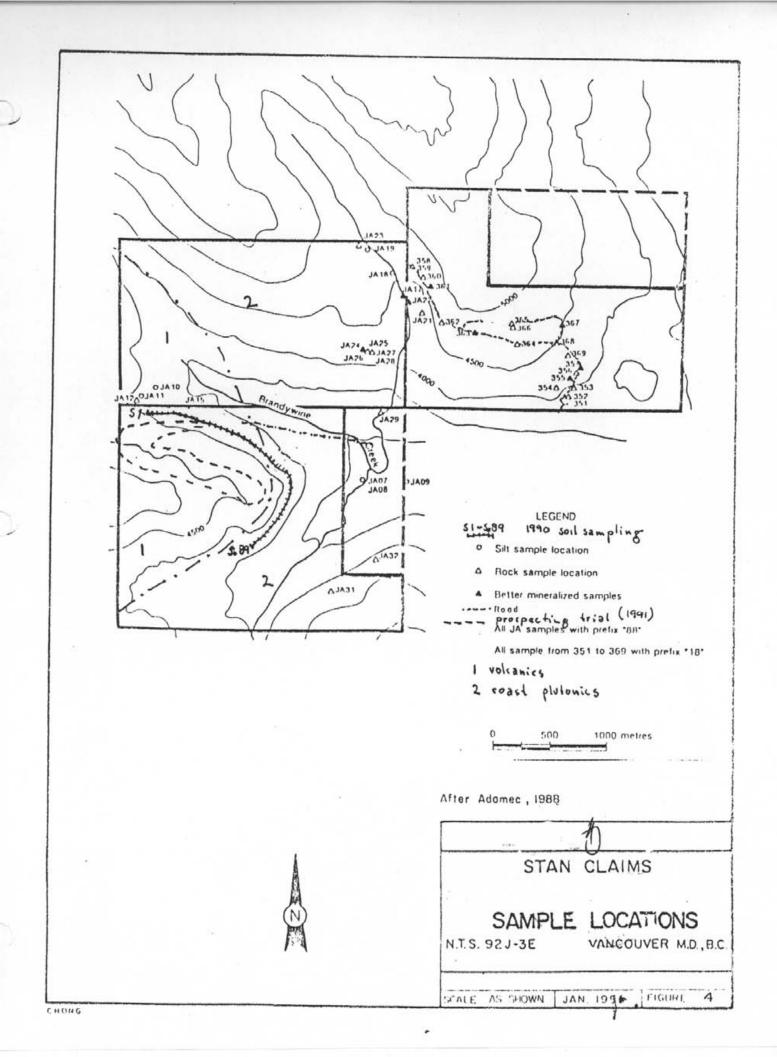
Exploration on the Stan Property has been orientated toward location of deposit similar to those exploited on the nearby Warman Property of Northair Mines Ltd. and adjacent Brandy Property of Silv Tusk Mines Ltd. The deposit on the Warman Property are apparently faulted segments of a single 'volcanogenic' exhalite deposit that habeen somewhat deformed and remobilized during metamorphism that accompanied emplacement of the Coast Plutonic Complex (Miller and Sinclair, 1979). Between 1982 Northair Mines Ltd. milled 345,700 tons yielding 166,582 ounces of gold (5,181 kg.) and 845,854 ounces of silver (26,309 kg.) with by-product copper, lead and zinc. The Northair Mines Ltd. suspended mining with reserves of about 61,0 metric tonnes granding 7.775 gm. gold, 23.94 gm. silver, 1.25% lead 1.90% zinc.

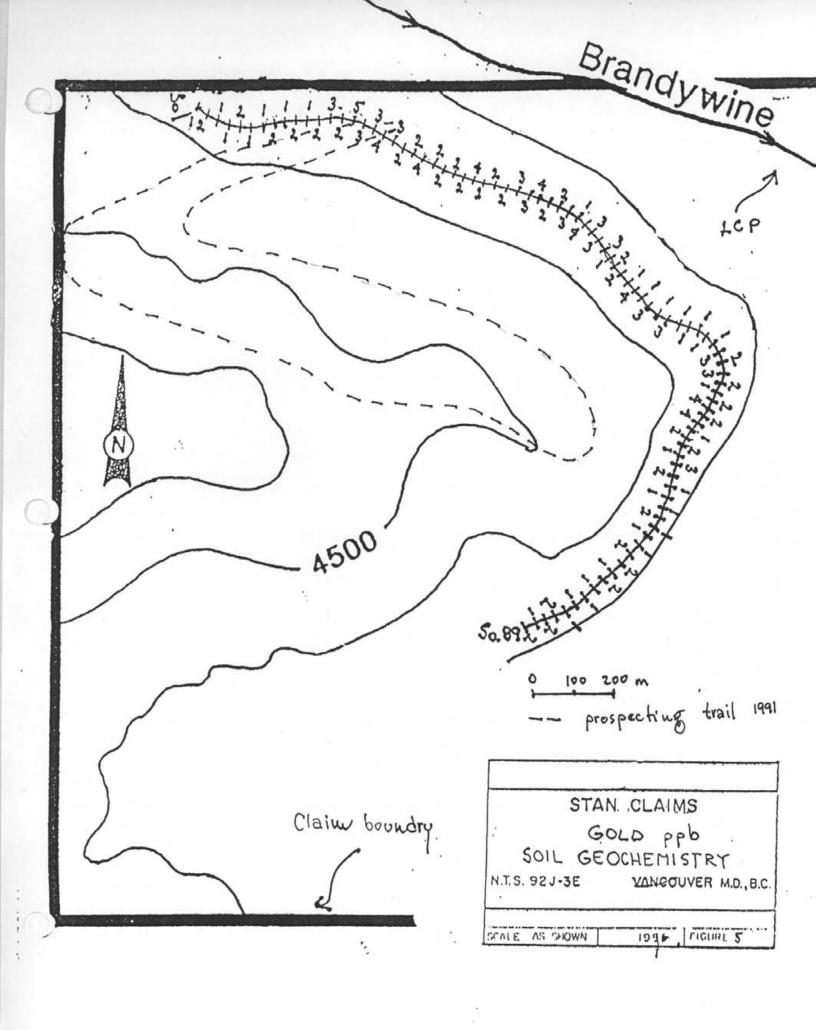
Several significant occurrences are found in the Callangham Crock Brandywine Creek area. The occurrences, controlled by Northair Mines Ltd. and associated companies (Silver Tusk Mines Ltd. and Brandy Resources Inc.), are of the following types:

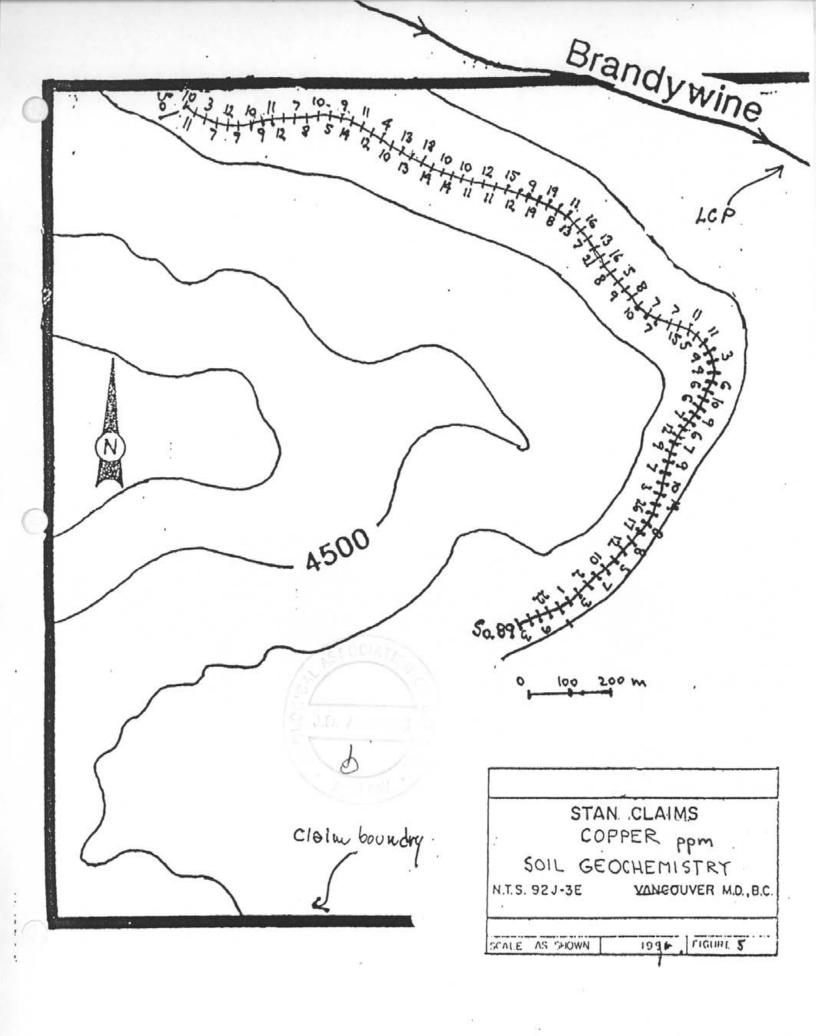
- 1. Discovery Masive Sulphide
- 2. Warman zone Veins, Massive Sulphide and Disseminated.
- 3. Manifold zone Veins and Disseminated.
- 4. Silver Tunnel Veins and Disseminated.
- 5. Millsite Veins and Disseminated.
- 6. Tedy Pit Massive Sulphide.
- 7.Zone 4 Massive Sulphide and Skarn.

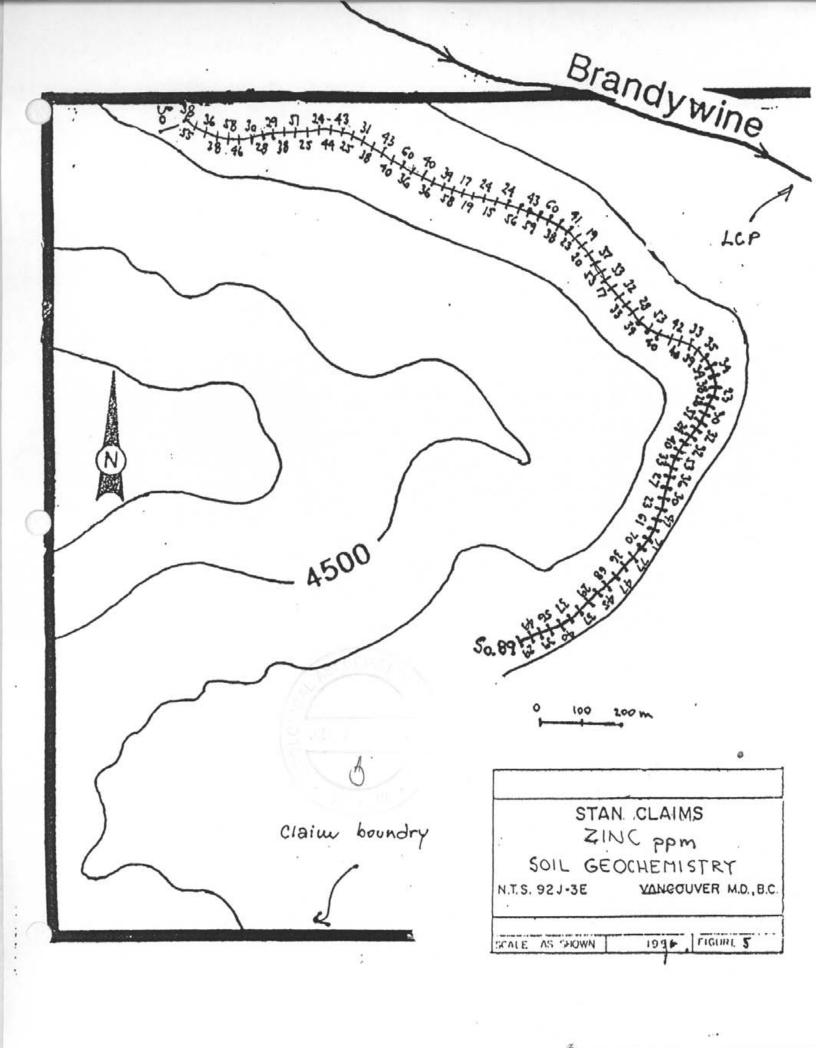
The Zone 4 occurrences contains sphalerite, pyrite and minor chalcopyrite in a skarn. The other occurrences and deposits are polymetalic, containing galena, sphalerite and pyrite with significant amounts of several silver mineral and native gold, and minor amounts of chalcopyrite and pyrrhotite (Miller and Sinclair, 1978).

The initial exploration program contucted on the Stan Property ir 1988 consisted of 47 rock samples. Samples contained values up to 96 ppb gold, 9.2 ppm silver and 4517 ppm copper. Follow-up geological exploration in 1989 located fractured grenstone and plutonic rocks with accompanying veinlets of quartz, epidote and pyrite. Pyrite, as veinlets, layers or blebs, appears to parallel the foliation in sheared grenstone. Banded pyrrhotite occurs in a 0.5 meter-wide quartz-epidote vein which cuts hornblende diorite (P.Christopher, 1990)









Samples with massive and disseminated pyrite contained the highest gold value of 9150 ppb gold and 2 meter rock chip sample from horblende-plagioclase porphyry contained strongly anomalous values of 260 ppb of gold.

#### GEOCHEMISTRY

The contour soil sampling was carried out on the Stan 3 claim. A total of 89 soil samples were collected along contour line in elevation of 3700 feet above sea level from the "B" horizon at about 25 cm with samples placed in Kraft bags, dried and shipped to Acme Analytical Labs in Vancouver, B.C. The samples were analyzed for Ag, Mo, Cu, Pb, and Zn by ICP and Au analysis by acid leach. Results for 89 soil samples are presented in Appendix A. Moderate values were recorded with copper values to 26 ppm, gold values to 4 ppb, zinc values to 77 ppm and silver values to 0.7 ppm. Soil results for gold, copper and zins are plotted on Figure 5. The station interval was 25m.

#### CONCLUSIONS AND RECOMMENDATIONS

The previous programs on the Stan Property have been successful in defining a number of geological and geochemical and geophysical targets that warrant follow-up exploration. The strong base and precious metal response from soil and rock samples and several N-S trending VLF-EM conductors suggest mineralized structures which may be similar to those on the nearby Northair Mines ans Silver Tusk properties. The recent contour soil sampling resulted in moderate gold, copper and zinc values .

Further, success contigent, phased exploration of the Stan property is warranted as suggested by P. Christopher Ph.D. P.Eng. (1990)

Chomme)

July,1990 Vancouver,B.C.

## STATEMENT OF COSTS

Travel and acc Field supplies Analysis Report		* * * *	2,185.00 165.00 982.53 1,600.00
Personnel			
Geologist 2 tecnicians	2 days \$300/day 8.5 days \$150/day	\$	600.00 2,550.00
		S	8.082.53

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#### STATEMENT OF QUALIFICATIONS

I, J.(Duro) Adamec, of 3891 Lonsdale Ave, North Vancouver B.C., hereby certify that:

- 1. I graduated in geology from Commenius University of Bratislava, Czechoslovakia (1978) and I hold Ph.D. in Engineering geology (1982) from the same University.
- I am a Fellow, in good standing, of the Geological Association of Canada
- 3. I have been practising my profession in Europe, Canada, USA and Mexico since 1978.
- 4. The information contained in this report was obtained from field work conducted by myself and others in 1990,1991.

Dated in Vancouver, B.C. this 27 day of July

1991

POARAMED

J.Duro Adamec, Ph.D. F.G.A.C.

## APPENDIX A.

CERTIFICATES OF ANALYSES

DATE RECEIVED: FEB 25 1991

DATE REPORT MAILED:

March 1/91

## **GEOCHEMICAL ANALYSIS CERTIFICATE**

Bush Resources Ltd. FILE # 91-0471 Page 1 705 - 543 Granville St., Vancouver BC V6C 1X8 Attn: STANISLAV

SAMPLE#	Мо	Cu	Pb	Zn	Ag	Au*
	ppm	ppm	ppm	ppm	ppm	ppb
1	1	10	3	38	. 5	1
2	1	11	6	55	. 2	2
3 4	1	3	2	36	.1	1
	1	7	2	38	. 2	1
5	2	12	6	58	. 4	2
6	1	9	6	46	. 2	1
7	1	10	5	30	. 6	1
8	1	9	11	28	.1	2
9	1	11	5	29	. 3	1
10	1	12	13	38	. 2	2
11	1	7	4	51	. 1	1
12	ī	8	4	25	.1	2
13	ı	10	2	24	. 1	3
14	9	5	5	44	.1	2
15	í	9	6	43	.3	5
16	1	14	2	25	. 4	3
17	ī	11	6	31	.1	3
18	î	12	2	38	.1	4
19	i	4	6	43	.1	3
20	1	10	4	40	.1	2
21	1	13	2	60	. 3	2
22	ī	13	10	36	.1	4
23	ĺ	18	11	40	.5	2
24	1	14	5	36	.5	2
25	i	10	4	39	.3	2
26	1	14	29	<b>5</b> 8	. 2	2
27	1	10	3	17	. 4	4
28	1		2			
		11		19	.1	2
29	1	12	2	24	. 3	2
30	1	üΊ	7	15	. 1	2
31	1	15	1.1	24	.5	3
32	1	12	7	56	.1	3
33	1	9	11	43	. 3	4
34	1	19	4	59	. 1	2
35	1	19	2	60	. 4	2
36	1	8	2	38	. 2	3
STANDARD C/AU-	S 21	63	42	137	7,3	46

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 CRAMG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. SAMPLE TYPE: P1-3 SOIL P4-ROCK ALV ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

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

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag Ag	Au* ppb
37	2	11	9	41	. 3	1
38	î	13	2	23	.1	4
39	ī	16	2	19	. 3	3
40	ī	7	5	20	.1	3
41	1	13	9	37	. ī	3
42	1	21	14	53	. 8	1
43	2	16	5	33	. 3	2
44	1	8	2	17	. 3	2
45	1	5	7	32	. 1	1.
46	1	9	17	33	.1	4
47	1	8	2	28	.1	1.
48	1	10	5	34	. 4	3
49	1	7	3	53	. 2	1
50	1	7	3	40	. 3	1
51	1	7	2	42	. 3	1
52	1	15	2	40	. 3	1
53	1	11	8	33	. 2	1
54	1.	5	2	39	.3	3
55	.1	11	4	35	. 1	2
56	1	9	2	34	. 2	3
57	1	3	5	34	. 1	2
59	1	4	2	38	. 2	1
60	1	6	2	23	. 1	2
61	1	6	6	28	. 2	4
62	1	10	3	30	.1	2
63	1	6	3	37	.3	4
64	1	9	2	32	. 4	1 2
65	1	7	3	24	• 5	2
66	1	6	2	32	. 2	2
67	1	12	2	40	. 2	1
68	1	7	3	53	. 2	3
69	1	9	2	33	. 2	2
70	1	9	3	36	. 2	1
7.1.	1	7	2	2.7	. 1	1
72	1	10	2	30	.1	1
STANDARD C/AU-S	19	57	41	131	7.2	49

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au* ppb
73	1	3	8	23	. 1	2
74	1	1.4	9	47	. 3	1
75	1	26	8	61	. 5	1
76	1	8	4	71	.5	1
77	1	17	4	70	. 2	2
78	1	8	10	77	.7	2
79	1	12	2	36	.3	1
80	1	5	15	47	. 4	2
81	1	10	10	68	.3	1
82	1	7	15	45	. 4	1
83	1	2	10	29	. 5	1
84	1	3	6	37	. 4	1
85	1	1	3	40	. 3	1
86	1	1	8	56	. 3	2
87	1	22	2	39	. 3	2
88	1	9	21	49	2	1
89	î	3	11	29	. 5	2
STANDARD C/AU-S	19	57	38	131	7.4	48