OCT 14 1977
WHITEHORSE
Yukon Territory

This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of $ 19,200.

J a Morin

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

B. R. BAXTER
Supervising Mining Recorder

Commissioner of Yukon Territory

ASSESSMENT REPORT

GEOCHEMICAL, ELECTROMAGNETIC AND GEOLOGICAL SURVEYS
AUGUST 1977

SAM CLAIMS -- 1 - 98
WHITEHORSE M.D.

CLAIM SHEETS 115-J-9 and 115-I-12

by

A. A. WALKER
October 3, 1977.

090223

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INTRODUCTION AND SUMMARY

The "Sam" claims No's. 1 - 86 were staked on 25th October 1975 and No's 87 - 98 were staked in mid-October 1976. A Geochemical soil sampling programme was conducted in the summer and fall of 1976.

The 1977 field work, carried out from 11th to 24th August 1977 consisted mainly of further geochemical soil sampling, with some geological float mapping and an E.M. 16 survey.

All work was conducted on behalf of Anglo-American Corporation of Canada Exploration Ltd. A review of expenditures is attached as Appendix "A".

LOCATION AND ACCESS

The SAM claims are located in the Whitehorse Mining Division at 138°05'W, 62°39'N at the boundary of claim sheets 115-J-9 and 115-I-12. The claim group is bordered by Hayes Creek to the north and east and by Butterfield Creek to the south. These creeks are tributaries of the Selwyn River which empties into the Yukon River about 35 miles downstream from Fort Selkirk, Yukon Territory.

The property is accessible in summer by helicopter only. The camp for the 1977 programme was located on the ridge at the head of Sonora Gulch and camp mobilization to this site was achieved by helicopter from Minto and Carmacks. Water was supplied to the camp from Hayes Creek in barrels flown in by helicopter. The helicopter was not based in camp and water and grocery supplies were brought in on a weekly basis. Travel on the property was by foot.

PERSONNEL

The personnel assigned to the project were as follows:

Supervisor	-	A. A. Walker (Geologist)
Assistant	-	W. Skublak (Geologist)
Sampler	-	D. Boucher (Student)
Sampler	-	G. Plummer (Student)

Walker, Skublak and Boucher were present on the property throughout from 11th to 24th August. Plummer left the project on 19th August. In addition all four personnel were employed on preparation of camp equipment from 5th to 10th August and Skublak and Boucher on demobilization from 25th to 30th August. A summary of A. A. Walker's qualifications is included as Appendix "B"

CLAIM OWNERSHIP

All the SAM claims, No's 1 - 98 are owned by Anglo-American Corporation of Canada Exploration Ltd. It should be noted that claims SAM 19 and SAM 36 have been superseded by SAM 88 and SAM 87 respectively. There are, therefore, in total 96 claims and fractions of claims.

GEOCHEMICAL SOIL SAMPLING SURVEY

The 1977 soil sampling programme was designed to extend and 'fill-in' the coverage obtained in 1976 in order to better define anomalous zones.

A total of 524 soil samples were collected at 100 ft intervals along north-south lines, spaced 200 ft. apart west of line 20W, and 400 ft apart east of this line. Cut lines exist from a previous survey in the area and these were used as far as possible. Additional lines were put in by chain and compass. Each sample station was flagged and numbered by co-ordinates.

Samples were taken from the "C" horizon which generally consists of rock fragments and light brown soil. The "B" horizon is rarely developed and the "C" horizon is directly overlain by "A" horizon humus and moss. Sampling was carried out by penetrating into the "C" horizon to a depth of 9-18 inches using a grub-hoe and taking a sample of 1-2 lbs. weight.

Samples were analyzed by Bondar-Clegg and Co. at 1500 Pemberton Ave. North Vancouver, B.C. Sample drying and preparation was also carried out by them. Analyses were done for silver, lead and copper and the method used is listed on the laboratory reports included with this report in Appendix "C". The analytical results are plotted on Plates 3 to 5.

Anomalous zones are indicated for all three metals and a number of these zones are broadly co-incident for, at least, silver and lead. The silver and lead anomalies are in general elongated in a NE-SW direction and probably follow vein structures in the underlying rocks. The copper anomalies are broader and no distinct trend can be discerned. However, in 1976 samples were not analyzed for copper and it is planned to analyze the retained pulps for this metal to facilitate interpretation of the copper distribution.

Anomalous metal values were confined to the rhyolite porphyry intrusive and the Yukon Group metasediments. The 'Coffee Creek' granite has uniformly low values throughout and is probably younger than the mineralization.

ELECTROMAGNETIC (E.M. 16) SURVEY

An E.M. 16 survey was carried out over 6.25 line miles on claims SAM 25, 27, 29, 56, 58, 89 - 92 and 95 - 98. The following is a brief description of the method:

The Ronka EM-16 instrument is a VLF radio receiver designed to measure the electro-magnetic component of the very low frequency field transmitted by various stations in North America and Europe in communication with submarines. These stations have vertical antennae and transmit a horizontal field. This field is distorted in the presence of a conductor such as a body of sulphide. By systematically measuring dip angles the presence of a conductor can be detected and its location determined. The conductor will distort the primary horizontal field and thus if dip angle measurement are made and plotted they will produce a profile with the conductor being located at the crossover point.

Readings were taken at 100 ft. intervals along the north south lines used for soil sampling. A 400 ft spacing between lines was used. In possibly

anomalous areas the station spacing was reduced to 50 ft. One distinct 'conductor' was located (see Plate 7) which is spatially related to the contact between the 'Coffee Creek' granite and adjacent rocks. No conductor was found which could be correlated with the geochemical anomalies. 'Crossover' points do exist near the northern limit of the grid but these are thought to be due to topographic effects.

GEOLOGICAL FLOAT MAPPING

The SAM claims lie within the unglaciated area of West Central Yukon and consquently the property is covered by residual soil. Bedrock exposure is negligible even on the ridge tops and convential outcrop mapping is not possible. However, rock fragments were encountered in the "C" horizon in almost every soil sample pit and mapping of this float produced an acceptable geological map. Movement of rock fragments away from their source due to soil creep was not thought to be significant.

In addition to mapping the float from the 1977 soil sampling, the old sample pits dug in 1976 were re-examined and the nature of the float noted. Also, a previous operator of the property had ripped furrows with a bulldozer along cut lines 20W, 16W, 12W, 8W 4W and 00 exposing float and some bedrock. These were also utilized in the mapping. Mapping was conducted on the following claims:- SAM 42,43,44,58,89-98 and 25-29 (see Plate 6).

Three main rock units were recognized:

1. 'Coffee Creek' granite/quartz monzonite
2. A Rhyolite porphyry intrusive
3. The Yukon Group Metasediments.

The 'Coffee Creek' Granite/quartz Monzonite

A coarse grained buff-pink granite was mapped in the southern portion of the area examined, mainly on claims SAM 91, 92, 97, 98 and 29. The rock appears almost identical to that described by Tempelman-Kluit (1974) occuring at Coffee Creek some 25 miles west of the SAM claims and has therefore been correlated with this intrusive . On his map Tempelman-Kluit shows a plug of the 'Coffee Creek' granite outcropping some two miles south-west of the property.

The rock has a coarse grained typically granitic texture and, in the one thin section examined, was observed to consist of almost equal proportions of quartz, orthoclase and albite with very minor biotite ($\pm$ 1%). According to Tempelman-Kluit there is a range in composition from granite to quartz monzonite and therefore the term granite/quartz monzonite is used. This intrusive appear to be younger than the Yukon Group metamorphics and the rhyolite porphyry intrusive and uniformly low geochemical values were obtained over its outcrop. The exact nature of the contacts with the other rock-types was not observed.

Rhyolite Porphyry Intrusive

This intrusive forms a plug or stock-like body in the central part of the area mapped and covers an area of approximately 0.15 square miles. The rock appears to intrude the Yukon Group metamorphics but is probably older than the 'Coffee Creek' granite. No contact relationships were directly observed, however.

The rock is a light to medium grey or buff colour and is fine grained with a porphyritic texture. Phenocrysts are up to 3mm in size. Pyrite is disseminated throughout the rock in amounts from one to two percent by volume.

In thin section the phenocrysts are observed to be approximately 20% by volume quartz, 70% orthoclase, 5% albite/oligoclase and 5% chloritised biotite. Carbonate and sericite alteration is common in the orthoclase phenocrysts. The rock has been classified as a rhyolite porphyry.

The Yukon Group Metamorphics

This group of rocks flanks the rhyolite porphyry to the east and west and also to the north. No attempt was made to map individual rock types in the group which were observed to consist of schistose quartzite, chlorite schists and granite gneiss. The geochemical sampling indicates that some anomalous metal values are associated with these rocks.

CONCLUSIONS AND RECOMMENDATIONS

Geochemical soil sampling has been successful in locating anomalous metal values in the rhyolite porphyry intrusive and the Yukon Group metamorphics. Further sampling should be carried out to follow up 'open ended' anomalies in conjunction with further float mapping. Float mapping has been successful in mapping the geology and has permitted the distinction of favourable and unfavourable host rocks. This type of mapping should be extended over the remainder of the claims to define further areas of potentially favourable geology.

The E.M. 16 survey was not successful in locating potential mineralized bodies although it did highlight a geological contact. Any future E.M. 16 work should be limited to tracing of this contact where float mapping is unsuccessful due to swamp or permafrost.

The geochemical anomalies should be further investigated by a different electromagnetic technique and/or drilling.

A. A. Walker
October 3, 1977

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1974: Reconnaissance Geology of Aishihik Lake, Snag and part of Stewart River Maps-Areas, West-Central Yukon; Geol. Surv. Can., Paper 73-41.

APPENDIX " C "

BONDAR-CLEGG & COMPANY LTD.
1500 PEMBERTON AVE., NORTH VANCOUVER, B.C. PHONE: 985-0681 TELEX: 04-54554

Geochemical Lab Report

Extraction Hot Aqua Regia

Method Atomic Absorption

Fraction Used

Report No. 27 - 1187

From Anglo American Corp. of Canada

Date September 16, 19 77

SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm		SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm	
54W 20S	5	11	0.2		50W 20S	8	14	0.2	
19S	6	10	0.2		19S	8	12	0.2	
18S	11	12	0.2		18S	8	12	0.2	
17S	7	12	0.2		17S	8	12	0.2	
16S	4	10	0.2		16S	9	13	0.2	
15S	9	12	0.2		15S	6	10	0.2	
14S	5	12	0.2		14S	4	22	0.2	
13S	9	37	0.2		13S	14	13	0.2	
12S	5	14	0.2		12S	8	14	0.2	
11S	8	17	0.2		11S	7	13	0.2	
10S	7	10	0.2		10S	9	12	0.2	
9S	17	19	0.2		9S	17	14	0.2	
8S	6	16	0.2		8S	7	12	0.2	
7S	4	15	0.2		7S	6	9	0.2	
6S	6	14	0.2		6S	7	8	0.2	
52W 20S	4	10	0.2		48W 20S	11	9	0.2	
19S	11	11	0.2		19S	8	12	0.2	
18S	10	11	0.2		18S	16	12	0.2	
17S	12	11	0.2		17S	12	12	0.2	
16S	16	10	0.2		16S	11	15	0.2	
15S	10	12	0.2		15S	13	48	0.2	
14S	8	17	0.2		14S	9	12	0.2	
13S	9	12	0.2		13S	20	11	0.2	
12S	11	10	0.2		12S	5	12	0.2	
11S	6	13	0.2		11S	7	10	0.2	
10S	3	7	0.2		10S	9	14	0.2	
9S	10	13	0.2		9S	14	14	0.2	
8S	12	13	0.2		8S	11	13	0.2	
7S	11	14	0.2		7S	5	10	0.2	
6S	9	14	0.2		6S	10	12	0.2	

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Geochemical Lab Report

Report No. 27 - 1187

SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm		SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm	
46W 20S	12	27	0.2		44W 7S	11	9	0.2	
19S	8	18	0.2		6S	6	10	0.2	
18S	10	20	0.2		5S	12	10	0.2	
17S	15	14	0.2		4S	28	10	0.3	
16S	12	15	0.2		3S	20	15	0.6	
15S	13	16	0.2		2S	32	54	1.7	
14S	6	19	0.2		1S	68	200	4.8	
13S	12	14	0.2		00S	18	131	1.5	
12S	10	16	0.2		43W 00S	14	66	0.6	
11S	8	13	0.2		42W 20S	14	12	0.2	
10S	11	18	0.2		19S	13	16	0.2	
9S	7	13	0.2		18S	10	12	0.2	
8S	8	10	0.2		17S	13	12	0.2	
7S	6	13	0.2		16S	6	9	0.2	
6S	4	17	0.2		15S	19	12	0.2	
5S	10	19	0.2		14S	8	12	0.2	
4S	16	17	0.4		13S	6	12	0.2	
3S	14	20	0.2		12S	13	14	0.2	
2S	27	15	0.2		11S	13	15	0.2	
1S	20	14	0.7		10S	5	9	0.2	
00S	30	80	2.6		9S	14	13	0.2	
45W 00S	78	141	4.0		8S	6	14	0.2	
44W 20S	2	8	0.2		7S	12	12	0.2	
19S	6	10	0.2		6S	11	12	0.2	
18S	8	12	0.2		5S	14	14	0.2	
17S	12	14	0.2		4S	32	10	0.8	
16S	12	15	0.2		3S	12	20	0.5	
15S	11	17	0.2		2S	43	152	1.1	
14S	15	20	0.2		1S	35	196	2.3	
13S	7	12	0.2		00S	31	285	4.8	
12S	4	6	0.2		41W 00S	58	86	4.2	
11S	6	10	0.2		40W 20S	14	18	0.2	
10S	9	10	0.2		19S	11	12	0.2	
9S	14	10	0.2		18S	12	13	0.2	
8S	14	15	0.2		17S	13	17	0.2	

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Geochemical Lab Report

Report No. 27 - 1187 Page No. 3

SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm		SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm	
40W 16S	10	15	0.2		38W 15S	7	11	0.2	
15S	15	14	0.2		14S	7	11	0.2	
14S	12	14	0.2		13S	8	9	0.2	
13S	12	17	0.2		11S	4	14	0.2	
12S	20	14	0.2		10S	2	6	0.2	
11S	7	12	0.2		9S	19	25	0.2	
10S	8	14	0.2		8S	89	8	0.2	
9S	2	8	0.2		7S	18	11	0.2	
8S	5	11	0.2		6S	25	12	0.2	
7S	15	11	0.2		5S	44	43	1.1	
6S	24	16	0.2		4S	28	59	1.0	
5S	43	22	0.2		3S	21	23	0.2	
4S	79	166	1.9		2S	56	76	1.2	
3S	40	63	0.2		1S	49	80	2.0	
2S	54	190	6.9		00N	37	60	0.9	
1S	63	54	2.2		1N	44	108	1.2	
00N	50	128	1.2		2N	54	78	1.7	
1N	40	123	1.7		3N	17	18	0.2	
2N	37	62	0.3		4N	74	14	1.7	
3N	59	72	1.1		5N	18	47	1.0	
4N	34	54	0.2		6N	36	112	2.0	
5N	61	139	1.0		7N	32	181	1.0	
6N	126	270	7.5		8N	84	68	2.1	
7N	50	113	1.0		9N	41	58	0.9	
10N	37	110	1.2		10N	48	100	0.8	
11N	27	92	1.1		11N	29	70	0.9	
12N	44	116	0.9		12N	13	14	0.2	
13N	41	73	1.2		13N	52	53	0.6	
15N	42	69	1.6		14N	31	66	0.6	
39W 00N	23	92	1.0		15N	60	162	3.3	
36W 20S	10	12	0.2		37W 00N	90	54	5.5	
19S	4	10	0.2		36W 20S	5	8	0.2	
18S	10	13	0.2		19S	13	13	0.2	
17S	22	12	0.2		18S	11	10	0.2	
16S	11	12	0.2		17S	14	10	0.2	

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SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm		SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm	
36W 16S	11	12	0.2		34W 18S	6	12	0.2	
15S	16	14	0.2		17S	12	12	0.2	
14S	4	15	0.2		16S	8	12	0.2	
13S	6	13	0.2		15S	6	11	0.2	
12S	7	16	0.2		14S	10	12	0.2	
11S	10	11	0.2		13S	6	67	0.2	
10S	17	17	0.2		12S	4	8	0.2	
9S	25	10	0.2		11S	27	18	0.2	
8S	30	7	0.2		10S	27	10	0.2	
7S	44	9	0.2		9S	28	13	0.2	
6S	26	17	0.5		8S	196	30	3.8	✓
5S	20	12	0.2		7S	48	35	0.4	
4S	40	61	1.4		6S	57	84	0.2	
3S	36	25	0.5		5S	87	15	1.4	
2S	59	97	1.4		4S	120	70	1.2	✓
1S	58	46	0.3		3S	28	14	0.4	
00N	68	120	1.1	✓	2S	44	190	3.1	✓
1N	140	67	3.6	✓	1S	143	58	0.6	
2N	290	87	13.0	✓	00N	30	23	0.3	
3N	45	35	0.7		1N	63	59	0.8	
4N	37	27	0.2		2N	22	17	0.3	
5N	62	28	0.2		3N	105	120	5.8	✓
6N	40	96	0.5		4N	30	36	0.2	
7N	38	98	0.6		5N	40	39	0.5	
8N	50	36	0.6		6N	36	8	0.6	
9N	52	72	0.6		7N				
10N	30	85	0.2		8N	36	24	0.3	
11N	61	92	0.7		9N	73	56	1.1	
12N	100	20	0.2	✓	10N	59	67	1.0	
13N	60	77	0.8		11N	84	163	2.4	
14N	34	38	0.2		12N	66	38	0.2	
15N	85	44	1.9		13N	65	23	0.5	
35W 00N	76	26	0.2		14N	80	60	1.6	
34W 20S	10	12	0.2		15N	26	29	0.2	
19S	6	13	0.2		33W 00N	40	22	0.2	

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SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm		SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm	
32W 20S	6	15	0.2		30W 14N	74	87	0.9	
19S	6	16	0.2		15N	67	23	0.2	
18S	9	14	0.2		16N	31	23	0.2	
17S	14	20	0.2		17N	104	76	0.3	-
16S	12	14	0.2		18N	98	73	0.2	-
15S	8	14	0.2		28W 20S	10	38	0.2	
14S	6	26	0.2		19S	12	14	0.2	
13S	17	16	0.2		18S	9	11	0.2	
12S	52	18	0.2		17S	4	48	0.2	
11S	46	10	0.2		16S	9	10	0.2	
11N	49	340	4.0	-	15S	7	9	0.2	
12N	37	87	1.0		14S	8	10	0.2	
13N	42	58	0.2		13S	40	10	1.1	
14N	74	200	2.2	-	12S	52	110	2.8	-
15N	55	62	0.2		11S	16	47	0.8	
16N	20	27	0.2		26W 20S	9	15	0.2	
17N	70	61	1.4	-	19S	6	11	0.2	
18N	67	38	0.7		18S	9	12	0.2	
30W 20S	8	13	0.2		17S	8	10	0.2	
19S	12	15	0.2		16S	7	14	0.2	
18S	17	13	0.2		15S	22	19	0.5	
17S	15	12	0.2		14S	38	80	1.6	
16S	22	24	0.2		13S	36	40	1.0	
15S	13	13	0.2		12S	26	22	0.8	
14S	22	13	0.2		11S	56	113	12.0	-
13S	30	12	0.2		24W 20S	8	11	0.2	
12S	55	8	1.2		19S	9	12	0.2	
11S	65	60	4.0		18S	15	11	0.2	
7N	30	20	0.4		17S	8	8	0.2	
8N	24	17	0.2		16S	10	18	0.2	
9N	54	225	1.0	-	15S	21	36	1.4	
10N	54	225	0.8	-	14S	61	63	2.0	
11N	38	80	0.3		13S	50	92	2.6	
12N	92	520	4.9	-	12S	54	245	3.0	
13N	56	245	3.9	-	11S	25	58	2.4	

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SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm		SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm	
22W 20S	13	14	0.2		12W 21S	10	12	0.2	
19S	8	21	0.2		20S	80	59	1.8	
18S	24	21	0.4		19S	82	182	0.8	
17S	20	18	0.7		18S	134	166	2.6	
16S	88	78	4.5		17S	96	88	2.0	
15S	49	89	3.7		16S	84	101	4.1	
14S	49	79	1.8		15S	84	160	5.9	
13S	47	38	12.0		14S	64	84	2.7	
12S	96	87	1.9		13S	79	1125	24.0	
11S	44	29	0.6		12S	46	82	1.7	
10S	56	38	1.9		11S	65	124	1.0	
20W 20S	8	12	0.2		10S	87	79	2.8	
19S	8	13	0.2		9S	64	48	0.6	
18S	14	20	0.2		8S	30	28	0.5	
17S	51	108	4.5		7S	32	40	0.2	
16S	162	92	7.4		6S	24	30	1.6	
15S	330	84	5.8		5S	58	28	0.6	
14S	194	54	2.2		4S	46	38	0.2	
13S	126	30	2.7		3S	68	41	0.2	
12S	110	37	1.4		2S	103	26	0.3	
11S	116	72	0.4		1S	109	20	0.2	
16W 20S	21	18	0.2		10W 9S	285	152	2.4	
19S	16	22	0.2		5S	750	640	13.0	
18S	86	36	4.0		1N	41	27	0.2	
17S	135	50	3.6		2N	51	24	1.0	
16S	154	66	4.2		3N	370	12	0.2	
15S	42	39	0.8		4N	158	11	0.2	
14S	92	40	0.8		6N	56	52	0.2	
13S	87	159	1.3		7N	37	25	0.3	
12S	57	88	2.6		8N	134	63	0.9	
11S	71	184	5.4		10N	215	91	2.8	
12W 25S	9	13	0.2		11N	360	53	1.4	
24S	14	14	0.2		12N	260	11	0.5	
23S	10	13	0.2		7W 12N	210	28	0.6	
22S	10	12	0.2		6W 12N	134	28	0.2	

BONDAR-CLEGG & COMPANY LTD.

Geochemical Lab Report

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SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm		SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm
5W 12N	67	19	0.2		0+00W 21S	74	8	0.2
4W 22S	54	28	2.0		20S	54	14	0.2
21S	46	7	0.6		19S	36	6	0.2
20S	39	10	0.3		18S	73	48	0.2
19S	30	9	0.2		17S	18	10	0.2
18S	22	7	0.2		16S	22	15	0.2
17S	28	12	0.2		15S	46	10	1.6
16S	42	10	0.2		14S	37	6	0.2
15S	40	36	0.2		13S	116	4	0.2
14S	110	20	0.5		12S	66	11	0.3
13S	28	18	0.7		11S	29	20	0.4
12S	39	34	1.5		10S	28	14	0.2
11S	65	26	0.8		9S	74	27	1.2
10S	49	18	0.2		8S	94	48	0.7
9S	65	30	0.3		7S	126	36	1.4
8S	86	48	0.8		6S	147	72	2.2
7S	95	66	1.2		5S	164	98	3.0
6S	92	22	0.2		4S	270	184	4.0
5S	32	19	0.3		3S	245	38	2.2
4S	77	146	2.0		2S	470	22	1.3
3S	270	190	8.0		1S	150	26	1.9
2S	560	61	0.9		00E 1N	210	57	1.2
1S	300	190	2.2		2N	220	37	1.7
1N	250	30	1.4		3N	200	39	1.2
2N	196	30	0.2		4N	52	23	0.6
3N	174	58	0.8		5N	140	44	0.5
4N	140	39	0.7		6N	245	25	1.2
5N	122	190	2.0		7N	100	30	0.6
6N	53	26	1.2		8N	200	41	1.1
7N	32	19	0.4		9N	106	28	0.4
8N	164	104	1.0		10N	200	56	4.8
9N	42	30	1.4		11N	280	40	1.7
10N	44	15	1.3		12N	390	91	1.7
11N	114	25	0.7		4E 15S	59	9	0.2
0+00W 22S	56	10	0.2		14S	194	18	5.3

Geochemical Lab Report

Report No. 27 - 1187

SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm		SAMPLE NO.	Cu ppm	Pb ppm	Ag ppm
4E 13S	150	56	1.4		12E 4N	37	20	0.2
12S	116	6	0.3		5N	38	18	0.2
11S	49	4	0.2		6N	32	15	0.5
10S	37	4	0.2		7N	83	24	0.8
9S	73	21	0.5		8N	41	10	0.2
8S	200	52	2.0		9N	35	20	0.6
7S	131	110	1.4		10N	37	14	0.6
6S	83	53	1.3		11N	124	14	1.0
4S	146	30	1.7		12N	134	16	0.7
3S	610	47	6.6					
2S	560	30	2.1					
1S	108	30	1.0					
BL	230	88	2.9					
1N	310	36	3.4					
2N	300	56	3.2					
3N	200	44	2.0					
4N	200	80	3.4					
5N	420	40	3.5					
6N	650	126	1.4					
7N	64	13	0.6					
8N	16	6	0.2					
9N	22	10	0.3					
11N	153	64	2.2					
12E 8S	81	50	2.0					
7S	215	52	5.8					
6S	127	36	1.7					
5S	220	84	6.4					
4S	330	72	6.3					
3S	290	50	3.9					
2S	290	188	6.5					
1S	81	22	0.3					
BL	61	42	1.0					
1N	94	26	2.0					
2N	200	54	1.6					
3N	90	40	0.6					

140 139 138 137 136 135

64

63

62

61

U.S.A.

CANADA

ALASKA

TERRITORY

YUKON

DAWSON

KLONDIKE RIVER

SIXTY MILES RIVER

INDIAN RIVER

DOMINION CREEK

YUKON RIVER

CLEAR CREEK

ELSA

KENO HILL

MAYO

STEWART RIVER

THISTLE CREEK

WHITE RIVER

MINTO

SELWYN RIVER

HAYES CREEK

APEX MOUNTAIN

PROSPECTOR MOUNTAIN

CARMACKS

WHITEHORSE

SCALE 1:1,000,000

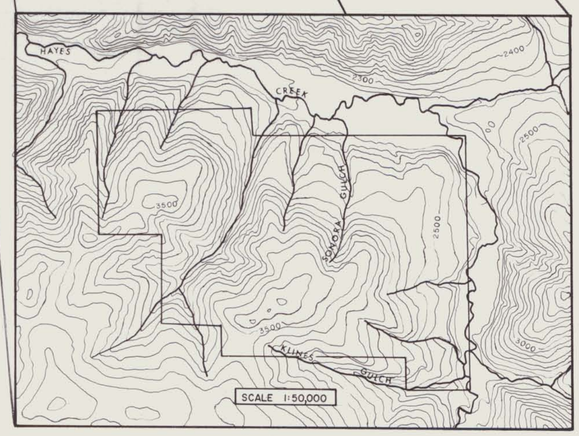

PLATE I

SAM and SWEDE CLAIMS
SONORA GULCH Y.T.

LOCATION MAP

— CLAIM BOUNDARY

—·— INTERNATIONAL BOUNDARY

● EXISTING TOWNSHIPS

○ ABANDONED TOWNSHIPS

▲ MOUNTIAN PEAKS

——— MAIN ROADS

- - - - - - - - SECONDARY and BUSH ROADS

PLATE 2.

SAM CLAIMS

HAYES CREEK & SONORA GULCH, YUKON TERRITORY, 115-J-9, 115-I-12

SCALE=1:10,000

CLAIM GROUPS —
1 -- Pink
2 -- Brown
3 -- Purple
4 -- Orange
5 -- Yellow
6 -- Blue

Miles 1 0 1

Metres 1000 0 1000

T.N. 31°09.4' M.N. 1975 ~3.6 p.a.

GEOCHEM. SOIL SAMPLE GRID. (AUG. 1977.)

E.M. 16 SURVEY (AUG. 1977.)

GEOCHEM. SOIL GRID (AUG. to OCT. 1976.)

A SOIL SAMPLE POINTS. (AUG. 24. 1977.)
o-z/10/11 Ag/Pb/Cu. in PPM.

SAM CLAIMS 1-86=YA 3869-3954, SAM 87-98=YA 8275 - 8286

SWEDE CLAIMS 1-6=YA 3779-3784

CLAIM NUMBERS IN BOLDFACE ARE SURVEYED BY CHAIN & COMPASS. CLAIM NUMBERS IN ITALICS ARE NOT YET SURVEYED.

SWEDE 5 YA3793

SWEDE 6 YA3784

SAM 41 YA3909

SAM 42 YA3910

SAM 23 YA 3891

SAM 24 YA 3892

SAM 54

15 N

SAM 43 YA3911

SAM 44 YA3912

SAM 94

SAM 90

SAM 93

SAM 25 YA 3893

SAM 26 YA3894

12 N

SAM 56

SAM 89

SAM 91

SAM 92

Base Line 00

00

06S

SAM 95

SAM 96

SAM 27 YA3895

08S

SAM 58

20S

52 W

48 W

44 W

40 W

36 W

32 W

28 W

24 W

20 W

16 W

SAM 98

SAM 28 YA3896

8 E

12 E

SAM 29 YA 3897

4 E

4 W

00

8 W

12 W

SAM 97

SAM 60

T.N.

MN

3°09'4

1975

INSET - DETAIL OF TRENCHING
SCALE - 1:500

SAM 30 YA 3898

PLATE 3.

SAM CLAIMS

HAYES CREEK & SONORA GULCH, YUKON TERRITORY, 115-J-9, 115-I-12

SCALE = 1 : 2000

GEOCHEMICAL MAP

(SOIL SAMPLING)

SILVER CONTENT

CONTOUR INTERVAL = 3,5 & 10 PPM

POSTSCRIPTS TO SAMPLE NUMBERS - B = DUPLICATE SAMPLE
P = PANNED SAMPLE
R = ROCK SAMPLE
T = SOIL SAMPLE FROM TRENCH
V = VEIN SAMPLE FROM TRENCH
D = DEEPENED RESAMPLED SOIL SAMPLE

SAMPLE SITE & Ag IN PPM (1976)

SAMPLE SITE & Ag IN PPM (1977)

CLAIM POST & BOUNDARY

SEPTEMBER, 1977

SWEDE 5 YA 3793

SWEDE 6 YA 3784

SAM 41 YA3909

SAM 42 YA 3910

SAM 23 YA 3891

SAM 24 YA 3892

SAM 54

15N

SAM 43 YA 3911

SAM 44 YA 3912

12N

SAM 90

SAM 94

SAM 26 YA3894

SAM 25 YA 3893

SAM 56

SAM 93

SAM 89

Base Line 00

00

SAM 95

SAM 96

SAM 27 YA 3895

06S

08S

SAM 28 YA 3896

8 E

12 E

SAM 58

SAM 91

SAM 92

SAM 29 YA 3897

20S

52W

48 W

44 W

40 W

36 W

32 W

28 W

24 W

20 W

16 W

SAM 98

4W

00

12W

8W

SAM 60

SAM 97

T.N.

MN

36°09.4'

1975
-36 p.a.

INSET - DETAIL OF TRENCHING
SCALE - 1:500

PLATE 4.

SAM CLAIMS

HAYES CREEK & SONORA GULCH, YUKON TERRITORY, 115-J-9, 115-I-12

SCALE = 1:2000

GEOCHEMICAL MAP

(SOIL SAMPLING)

LEAD CONTENT

CONTOUR INTERVAL = 100, 500 & 1000 PPM

POSTSCRIPTS TO SAMPLE NUMBERS - B-DUPLICATE SAMPLE
P-PANNED SAMPLE
R-ROCK SAMPLE
T-SOIL SAMPLE FROM TRENCH
V-VEIN SAMPLE FROM TRENCH
E-DEEPENED RESAMPLED IDL SAMPLE

189 SAMPLE SITE & Pb IN PPM (1976)
124 SAMPLE SITE & Pb IN PPM (1977)

CLAIM POST & BOUNDARY

SEPTEMBER, 1977

SWEDE 5 YA 3793

SWEDE 6 YA 3784

SAM 41 YA3909

SAM 42 YA 3910

SAM 23 YA 3891

SAM 24 YA 3892

15N

SAM 43 YA 3911

SAM 44 YA 3912

SAM 94

SAM 93

SAM 25 YA 3893

SAM 26 YA3894

12 N

SAM 56

SAM 89

SAM 30

Base Line 00

00

06S

SAM 95

SAM 96

SAM 27 YA3895

08S

SAM 28 YA 3896

8E

12 E

SAM 58

SAM 91

SAM 92

4E

SAM 30 YA 3898

20S

52W

48 W

44W

40W

36W

32 W

28 W

24W

20 W

16 W

SAM 98

SAM 29 YA3897

4W

00

SAM 97

12W

SAM 60

8W

T.N.

35°09.4'

MN

1975

-36 p.a.

PLATE 5.

SAM CLAIMS

HAYES CREEK & SONORA GULCH, YUKON TERRITORY, 115-J-9, 115-I-12

SCALE = 1 : 2000

GEOCHEMICAL MAP

(SOIL SAMPLING)

COPPER CONTENT

CONTOUR INTERVAL = 100, 500 PPM

• SAMPLE SITE (1976)

63 SAMPLE SITE & Cu IN PPM (1977)

CLAIM POST & BOUNDARY

SEPTEMBER, 1977

SAM 54

41 YA3909

YA3793

SWEDE 6 YA3784

SAM 42 YA3910

SAM 24 YA3892

SAM 23 YA3891

15N

SCHIST & GNEISS

SAM 43 YA3911

SAM 44 YA3912

SAM 94

12N

SAM 26 YA3894

SAM 90

SAM 93

SAM 25 YA3893

SAM 56

SCHIST & GNEISS

SAM 89

Base Line 00

00

06S

SAM 95

SAM 96

SAM 27 YA3895

SAM 58

SAM 91

SAM 92

RHYOLITE PORPHYRY

08S

SAM 28 YA3896

8E 12E

4E

"COFFEE CREEK" GRANITE / QUARTZ MONZONITE

20S

52W 48W 44W 40W 36W 32W 28W 24W 20W 16W

SAM 98

SAM 29 YA3897

4W 00

SAM 97

12W

8W

SAM 60

T.N.

3°09'4

MN

1975

-3.6 p.a.

INSET - DETAIL OF TRENCHING
SCALE - 1:500

PLATE 6.

SAM CLAIMS

HAYES CREEK & SONORA GULCH, YUKON TERRITORY, 115-J-9, 115-1-12

SCALE = 1:2000

GEOLOGY MAP

(BASED ON FLOAT MAPPING)

— LEGEND —

- "Coffee Creek" granite/quartz monzonite
- Rhyolite Porphyry
- Yukon Group schist and gneiss

POSTSCRIPTS TO SAMPLE NUMBER - V=VEIN SAMPLE FROM TRENCH
B=DUPLICATE SAMPLE
P=PANNED SAMPLE
R=ROCK SAMPLE
T=SOIL SAMPLE FROM TRENCH
D=DEEPENED SOIL SAMPLE

- SAMPLE SITE & NUMBER (1976)
- SAMPLE SITE (1977)
- CLAIM POST & BOUNDARY

SEPTEMBER, 1977

PLATE 7.

ANGLO AMERICAN CORPORATION OF CANADA EXPLORATION LTD.

SAM CLAIMS

HAYES CREEK AND SONORA GULCH
Yukon Territory

E. M. 16 SURVEY PROFILES

SCALE: 1:2000

0 100 200 300 FT.

DATE SURVEYED: AUG., 1977

SURVEYED BY: W.S., D.B.

APPROVED BY: