

**GEOLOGY and GEOCHEMISTRY
of the
WAS CLAIMS**

Whitehorse Mining District

Location: 1. Sawtooth Range
2. 105C/13
3. Latitude: 60 56'N
Longitude: 133 47°W

For:
ALL-NORTH RESOURCES LTD.
c/o Archer, Cathro and Associates (1981) Ltd.
Box 4127, 3125 Third Avenue
Whitehorse, Yukon
Y1A 3S9

By:
TOM GARAGAN; B.Sc, FGAC
and
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AURUM GEOLOGICAL CONSULTANTS INC.
604-675 West Hastings Street,
Vancouver, B.C., V6B 4W3

November 20, 1987

This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 2400.

J. J. Banner
for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

SUMMARY

The WAS 1-6 claims, owned 100% by All-North Resources Ltd. are located 75 kilometers east of Whitehorse and 55 kilometers north of Johnson's Crossing, Yukon. Access to the property is via helicopter from Whitehorse. Exploration consisted of geological mapping and geochemical sampling and was carried out on June 16, 1987.

The claims are underlain by meta-diorite, amphibolite and hornblende bearing gneisses of the Mississippian Big Salmon Complex. Several boulders of limonite stained bull quartz and iron carbonate altered diorite associated with oxidized soil occur immediately west of the claims. Soil samples in this area contain up to 145 ppb gold and 9.0 ppm silver and rock samples contain up to 1250 ppb gold and 102 ppm silver. The dimensions of the veins are not known. Other soil and silt geochemical anomalies suggest the presence of other veins in the area.

The results of the short 1987 program warrant a followup program of further geological mapping and sampling. The program should be carried out from a fly camp on the property. Additional claims should be staked to cover the area of veining.

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INTRODUCTION

This report was prepared at the request of R.J.Cathro of Archer, Cathro and Associates (1981) Limited and All-North Resources Ltd. of Vancouver and describes the exploration carried out by Aurum Geological Consultants Inc. on the WAS 1-6 claims on June 16, 1987. Exploration consisted of stream sediment, soil and rock sampling.

LOCATION, ACCESS and PHYSIOGRAPHY

The WAS claims are located approximately 75 kilometers east of Whitehorse (NTS 105C-13) and 55 kilometers north of Johnson's Crossing. The property occurs at the south end of the Sawtooth Range at latitude 60 56'N, longitude 133 47'W (figure 1).

Access to the property is via helicopter from Whitehorse. A little used tote road leading from the South Canal road (40 kilometers east) to the Red Mountain porphyry molybdenum deposit passes within 2.5 kilometers from the property. The condition of the road is not known.

The topography consists of a south facing grass and talus covered slope which flattens out into a east-west creek valley. The north side of the claims is bounded by steep cliffs. Elevations range between 2094 meters and 1800 meters. The tallest peak in the area occurs immediately west of the claims. The property is above treeline with very little vegetation.

CLAIM STATUS

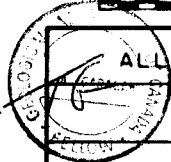
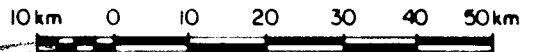
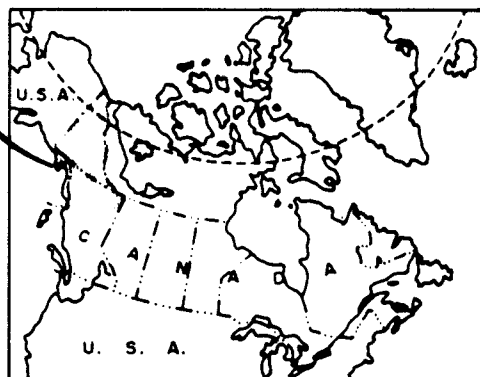
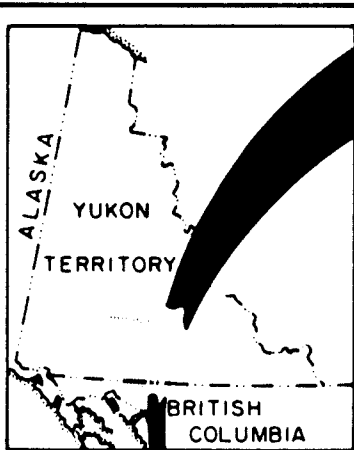
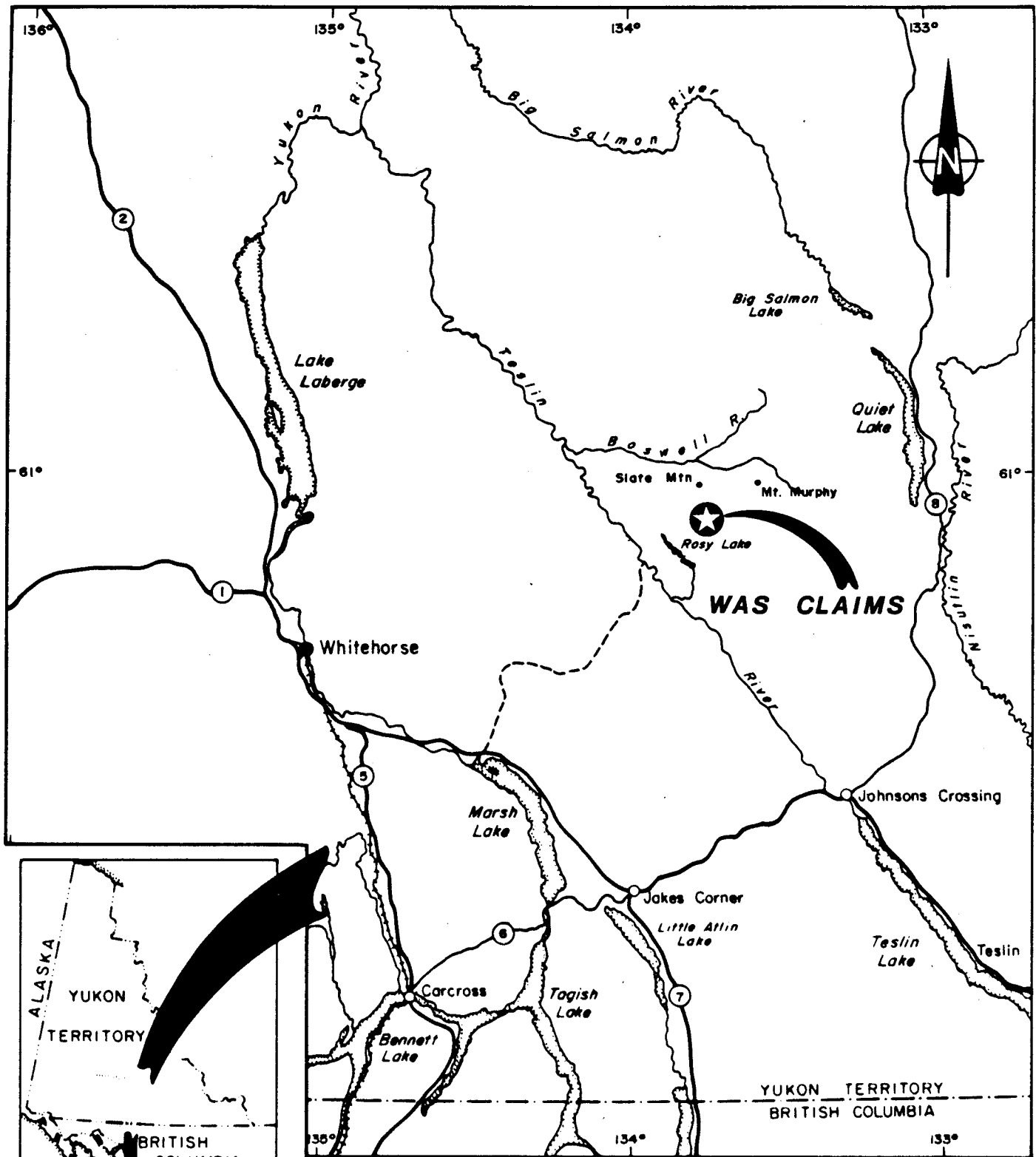
The property consists of 6 contiguous mineral claims staked in 105C-13 of the Whitehorse Mining district. The property is 100% owned by All-North Resources Ltd. of Vancouver, B.C.

The claim status is shown below and the approximate claim distribution is shown in figure 2.

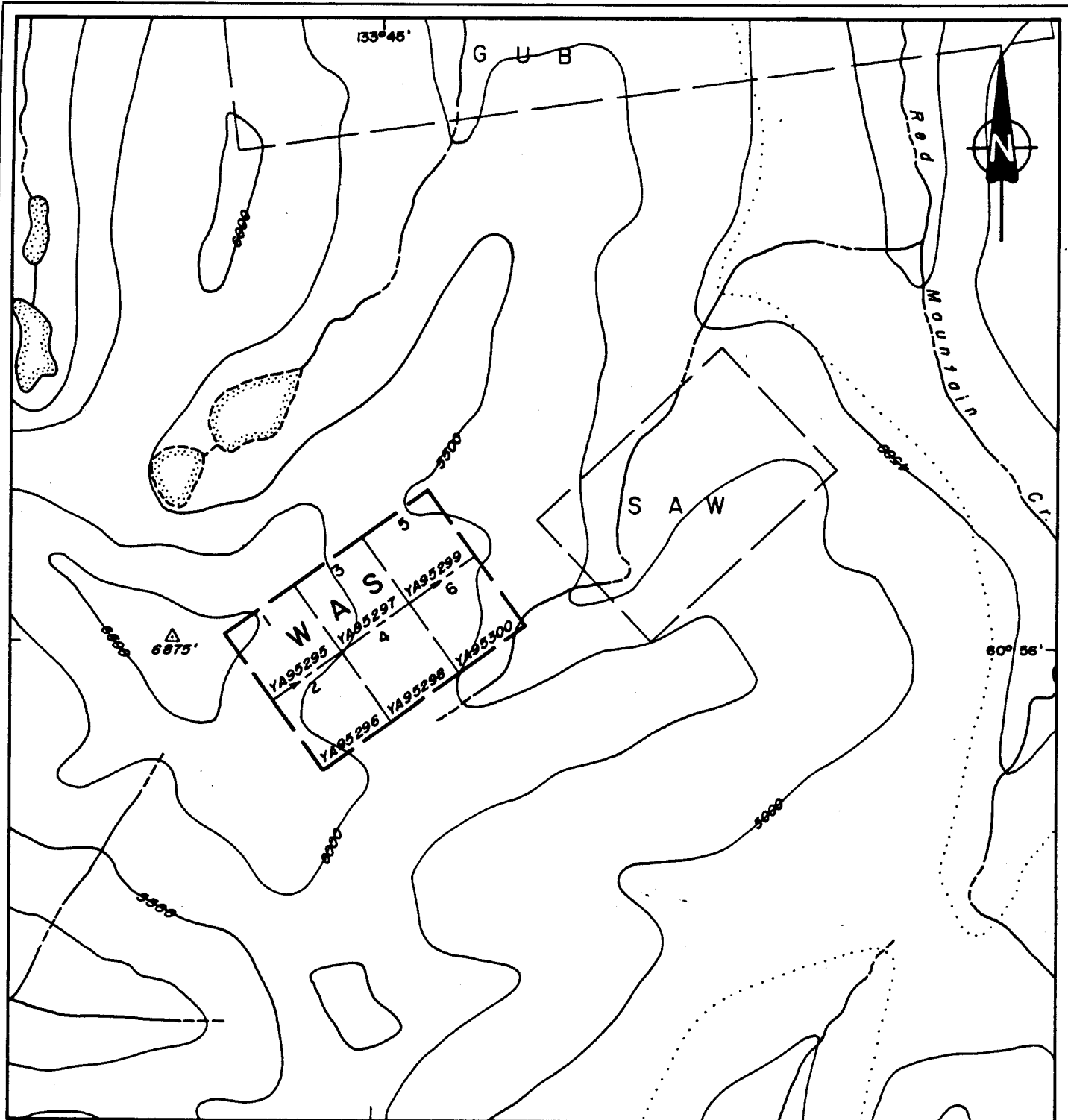
<u>Claim Name</u>	<u>Grant Number</u>	<u>Recording Date</u>	<u>Expiry Date</u>
Was 1-6	YA95295-300	July 28, 1986	October 28, 1991

HISTORY

Placer gold was discovered on Iron Creek, Sidney Creek and tributaries in 1905. The placer operations were abandoned in the late 30's. The creeks are located 20 kilometers east of the claims.



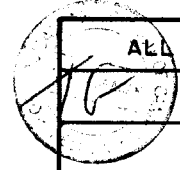
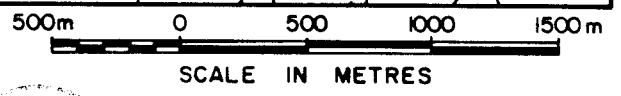
ALL - NORTH RESOURCES LTD	
WAS CLAIMS	
LOCATION	
Aurum Geological Consultants Inc.	OCTOBER, 1987
Drawn by NH	Scale: 1:1,000,000
FIGURE: 1	



LEGEND

- claim boundary
- claim number
- tag number
- 4WD trail
- creek, lake
- elevation contour; interval 500 ft.

Note: adapted from D.I.A.N.D. map sheet 105 C-13



ALL - NORTH RESOURCES LTD.			
WAS CLAIMS			
CLAIM MAP			
Aurum Geological Consultants Inc.			OCTOBER, 1987
NTS 105C/13	DRAWN BY NH	SCALE: 1:30,000	FIGURE: 2

Prospecting in the area continued sporadically until the discovery of the Red Mountain molybdenum deposit in 1969, located 5 kilometers north of the WAS claims. The property was explored by a variety of companies until it was acquired by Amoco Canada in 1978. The property was drilled until 1982 when the project became dormant due to low metal prices. Drill indicated reserves at this time were 187,270,000 metric tons grading 0.167% MoS₂ (Kahlert & Brown, 1983: paper given at the Mineral Deposits of Northern Cordillera Conference, Dec 5-7, 1983, Whitehorse).

The WAS 1-6 claims were staked on July 23, 1986 on the south facing slope of the headwaters of a creek containing a 36 ppb gold, 121 ppm arsenic, 2.8 ppm antimony and a 57 ppm copper silt anomaly from a government regional silt geochemical survey (G.S.C. open file 1218). The results of this survey were released on July 23, 1986.

No evidence of previous exploration on the property was observed during the 1987 exploration. Noranda's SAW claim were staked on the north facing slope of the same creek to cover the same silt anomaly.

REGIONAL GEOLOGY

The WAS claims are located within the Big Salmon Complex, 5 to 10 kilometers east of the Teslin suture, the western margin of the Omineca Belt. The regional geology has been described by Mulligan (1963) and by Templeman-Kluit (1974) and will only be summarized here.

The Mississippian and earlier Big Salmon Complex consists of metamorphosed volcanics and related intrusives and sediments. Diorite gneisses and amphibolite (Mulligan's Unit A) occurring in the WAS claims may be related to a higher metamorphic grade version of the Big Salmon complex. The Big Salmon Complex rocks are intruded by the late Cretaceous-Quiet Lake granodiorite batholith. These rocks are cut by late Cretaceous to Tertiary quartz feldspar porphyry dykes.

The regional structural trend is north to northwest.

PROPERTY GEOLOGY

The property is underlain by a meta-diorite, quartz hornblende and quartz feldspar hornblende gneiss and amphibolite. The relationships between the different units is not known, but they are believed to form part of the Mississippian Big Salmon Complex.

Several boulders up to 10 cm in diameter of limonite stained quartz veining occur west of the claims. The boulders are associated with boulders of iron carbonate-pyrite altered diorite and orange brown soil. The trend and width of the veins are not known. The vein material and alteration are similar to the Cassiar gold veins.

GEOCHEMISTRY

A total of 10 stream sediment, 12 soil and 6 rock samples were collected on the property. The samples were all analysed for Au (FA/AA) and 32 element ICP by Chemex Labs Ltd of Vancouver, B.C.. The sample locations and Au-Ag results are plotted in figure 3 and all the results are in Appendix A. Rock descriptions are in Appendix B.

The stream sediment samples were collected at approximately 250 to 500 meter intervals in the two creeks draining the north and south side of the claims. Several of the samples from both creeks contained slightly anomalous values of 30 to 50 ppb gold and 105 to 160 ppm arsenic. Three samples collected in the northernmost creek contained 60 to 96 ppm copper.

Two soil sample lines were run along the south facing slope at approximately the 1990 meter and 1770 meter contour levels. The soil samples were collected at 100 meters intervals. Two samples were also taken from oxidized soil zones higher up the slope.

Several soil samples contained anomalous values of gold, silver and arsenic. Geochemical values are up to 145 ppb gold, 9.0 ppm silver and 765 ppm arsenic with the best results coming from areas of oxidized soil and quartz vein float.

Two grab samples of quartz float in this area contain 470 ppb gold, 102 ppm silver; 1250 ppm gold and 5.6 ppm silver. The samples also contain up to 1680 ppm arsenic, 237 ppm chromium (possibly due to fuschite), 139 ppm copper, 84 ppm lead and 70 ppm antimony.

CONCLUSIONS and RECOMMENDATIONS

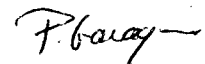
The WAS claims are underlain by meta-diorite, amphibolite and hornblende bearing gneisses of the Mississippian Big Salmon complex. Several boulders of limonite stained bull quartz with associated boulders of iron carbonate-pyrite altered diorite in oxidized soil occur immediately west of the claims. Soil geochemical values are up to 145 ppb gold and 9.0 ppm silver and rock values are up to 1250 ppb gold and 102 ppm silver.

(approximately 3 opt silver). The dimensions of these veins are not known and other geochemical anomalies in soil and silt suggest the presence of other veins on the property.

Quartz veins with associated iron carbonate-pyrite altered meta-diorite and metavolcanics are being mined for gold in the Cassiar region, B.C.. There appears to be some potential for locating a similar deposit around the WAS claims. Therefore, a short followup program of geological mapping and more soil and rock sampling from a fly camp is recommended for this area. More claims should also be staked west of the WAS claims to cover the oxidized zones.

The following budget is anticipated for this program.

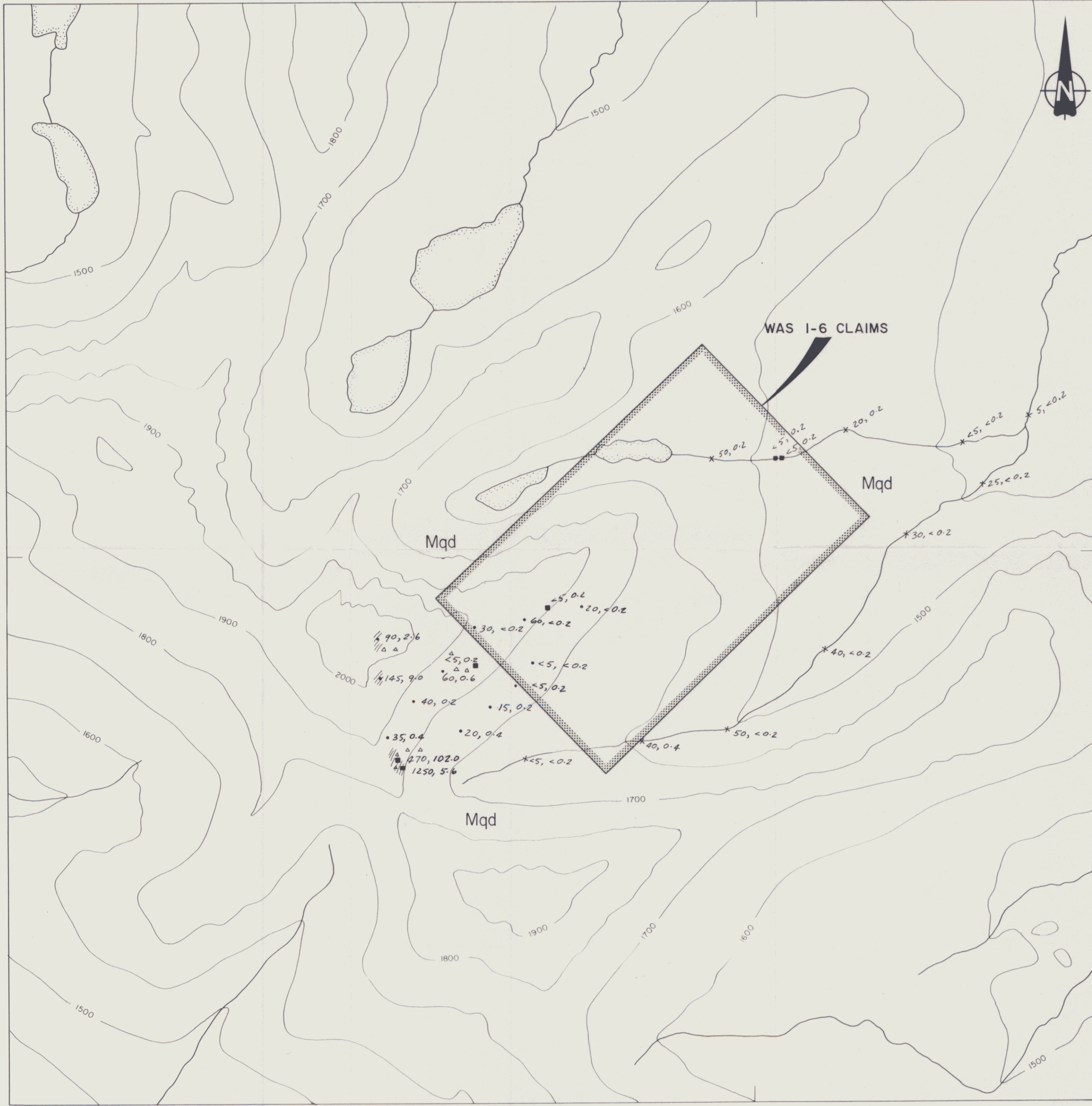
Geology:	\$ 4,000
Geochemistry:	3,000
Helicopter:	5,000
Camp Costs:	800
Claim Registration:	<u>200</u>
Subtotal:	3,000
plus 10% contingency:	<u>300</u>
Total Budget:	\$ 4,300



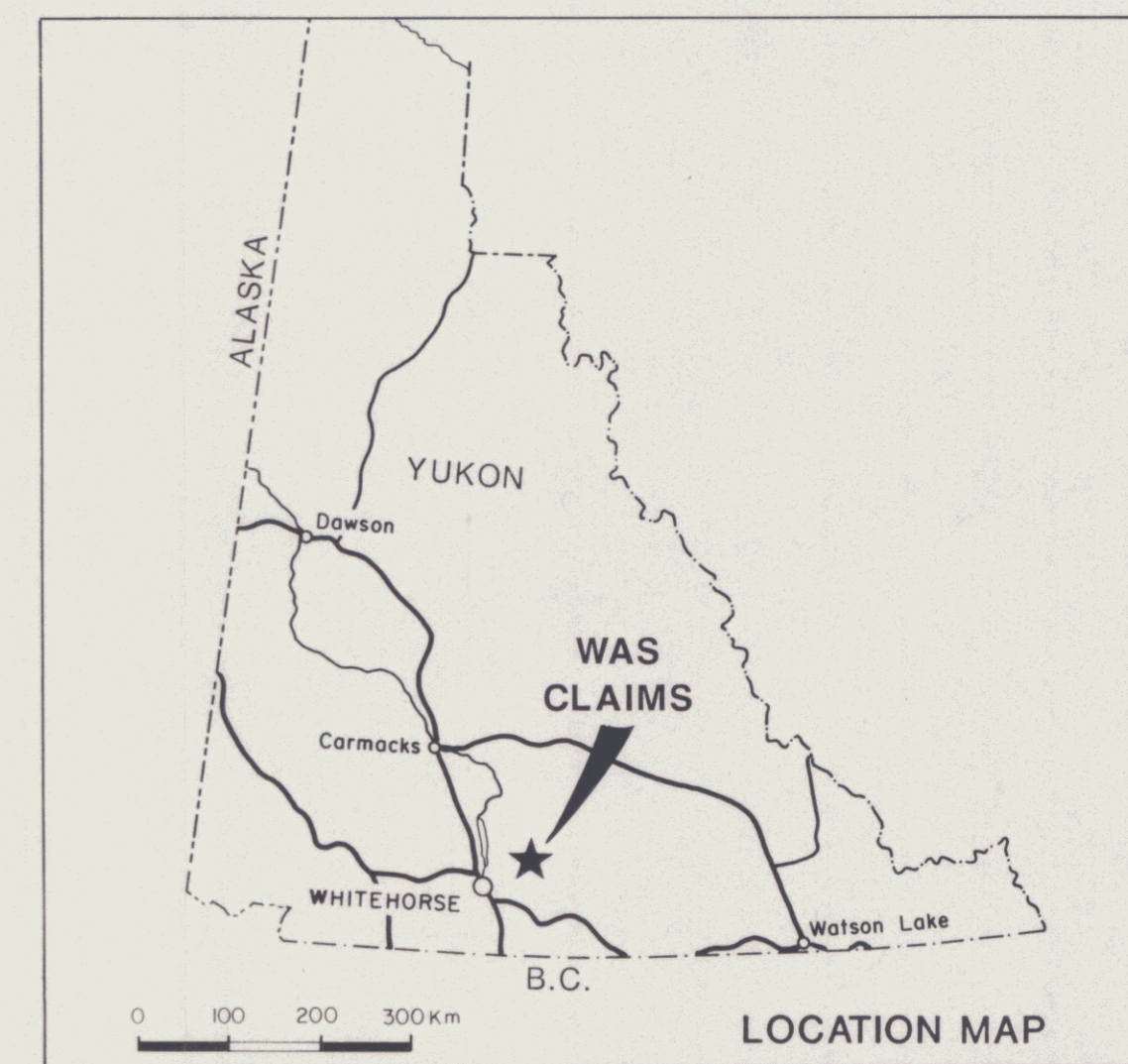
REFERENCES

- Mulligan, Robert, 1963: Geology of the Teslin Map Area, Yukon, Territories, G.S.C. Memoir 326.
- Templeman-Kluit, D.J., 1979: Transported Cataclasite, Ophiolite and Granodiorite in Yukon: Evidence of Arc-Continental Collision, G.S.C. Paper 79-14.

133°45'



60°56'



LEGEND

- MISSISSIPPIAN or earlier: Big Salmon Complex**
- Mqd Quartz hornblende gneiss, amphibolite and hornblende diorite
 - $\triangle \triangle$ Quartz vein float
 - Area of oxidized soil
 - \bullet $5, 0.2$ Soil sample location - Au (ppb), Ag (ppm)
 - \times $40, 0.2$ Silt sample location - Au (ppb), Ag (ppm)
 - \blacksquare $5, 0.2$ Rock sample location - Au (ppb), Ag (ppm)



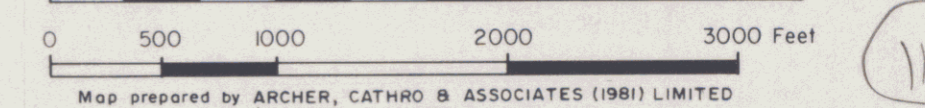
Figure 3
 AURUM GEOLOGICAL CONSULTANTS INC.

091975

**GEOLOGY AND
 Au, Ag GEOCHEMISTRY**

WAS CLAIMS
 ALL-NORTH RESOURCES LTD.

NTS 105C/13
 SCALE 1:10,000



Map prepared by ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

To accompany report dated Nov. 20/87

1184

**APPENDIX A
ANALYTICAL RESULTS**



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
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 BRITISH COLUMBIA, CANADA V7J-2C1
 PHONE (604) 984-0221

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Project: WAS/CLAIM
 Comments: CC T. GARAGAN

Page No. : 1-A
 Tot. Pages: 1
 Date : 6-JUL-87
 Invoice # : I-8716701
 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8716701

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			Fa+AA																		
7-660033	201	238	145	1.59	9.0	660	230	< 0.5	< 2	0.36	2.0	15	15	21	4.52	< 10	< 1	0.29	20	0.30	1400
7-660034	201	238	35	2.53	0.4	170	350	< 0.5	< 2	0.55	< 0.5	17	41	16	4.90	< 10	5	0.30	20	0.81	1380
7-660035	201	238	40	2.71	0.2	255	430	< 0.5	2	0.57	0.5	13	35	21	3.85	< 10	3	0.24	20	0.64	1160
7-660036	201	238	60	2.08	0.6	230	560	< 0.5	< 2	0.62	0.5	18	33	29	5.44	< 10	< 1	0.37	30	0.42	1530
7-660037	201	238	30	2.32	< 0.2	435	320	< 0.5	< 2	0.52	1.5	17	42	28	4.67	< 10	5	0.21	10	0.78	1045
7-660038	201	238	90	1.71	2.6	295	180	< 0.5	< 2	0.48	1.0	8	13	13	3.12	< 10	3	0.32	30	0.31	895
7-660039	201	238	20	2.01	< 0.2	55	290	< 0.5	< 2	0.57	< 0.5	16	39	33	4.21	< 10	< 1	0.19	10	0.78	875
7-660040	201	238	60	1.95	< 0.2	765	460	< 0.5	< 2	0.73	2.0	13	30	20	5.77	< 10	3	0.16	10	0.46	1255
7-660041	201	238	< 5	1.75	< 0.2	20	210	< 0.5	< 2	0.56	< 0.5	7	36	15	3.03	< 10	1	0.15	10	0.67	585
7-660042	201	238	< 5	2.51	0.2	20	530	< 0.5	2	1.01	< 0.5	13	45	26	3.64	< 10	3	0.21	20	0.84	619
7-660043	201	238	15	2.38	0.2	30	440	< 0.5	< 2	0.80	< 0.5	15	46	38	3.41	< 10	3	0.21	20	0.96	678
7-660044	201	238	20	1.98	0.4	105	360	< 0.5	< 2	0.90	0.5	14	39	28	3.32	< 10	< 1	0.18	20	0.75	801
7-850004	201	238	< 5	1.94	< 0.2	10	250	< 0.5	< 2	0.80	< 0.5	10	44	27	3.23	< 10	1	0.15	20	1.00	542
7-850005	201	238	40	2.12	0.4	160	370	< 0.5	< 2	0.88	0.5	14	35	33	3.61	< 10	< 1	0.19	20	0.86	925
7-850006	201	238	50	1.87	< 0.2	150	380	< 0.5	< 2	0.69	0.5	14	31	32	3.52	< 10	1	0.21	20	0.73	981
7-850007	201	238	40	2.18	< 0.2	155	450	< 0.5	< 2	0.69	0.5	15	37	39	4.23	< 10	2	0.20	20	0.79	1215
7-850008	201	238	30	1.98	< 0.2	105	390	< 0.5	< 2	0.71	0.5	15	36	39	3.56	< 10	3	0.20	20	0.78	799
7-850009	201	238	25	2.09	< 0.2	130	390	< 0.5	< 2	0.79	0.5	17	46	52	4.92	< 10	2	0.18	20	0.95	1465
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7-850011	201	238	< 5	1.31	< 0.2	15	170	< 0.5	< 2	1.16	< 0.5	8	85	60	2.12	< 10	3	0.10	10	0.74	343
7-850012	201	238	20	1.83	0.2	60	320	< 0.5	< 2	0.88	< 0.5	16	58	82	3.73	< 10	< 1	0.17	20	0.89	475
7-850013	201	238	50	3.28	0.2	125	420	< 0.5	< 2	0.79	0.5	27	69	96	4.54	< 10	3	0.29	20	1.06	1560

CERTIFICATION :

BC



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 Y1A 3S9

Project: WAS CLAIM
 Comments: CC: T. GARAGAN

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CERTIFICATE OF ANALYSIS A8716701

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Se	Sr	Tl	Tl	U	V	W	Zn
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7-660034	201	238	< 1	0.01	22	1170	2	5	< 10	40	0.02	< 10	< 10	97	< 5	98
7-660035	201	238	< 1	0.02	18	1280	10	5	< 10	53	0.04	< 10	< 10	79	< 5	81
7-660036	201	238	< 1	< 0.01	23	1250	4	5	< 10	25	< 0.01	< 10	< 10	93	< 5	101
7-660037	201	238	< 1	0.01	25	730	18	5	< 10	41	0.06	< 10	< 10	91	< 5	67
7-660038	201	238	< 1	< 0.01	12	420	22	5	< 10	52	< 0.01	< 10	< 10	30	< 5	60
7-660039	201	238	< 1	0.02	28	820	< 2	< 5	< 10	35	0.06	< 10	< 10	87	< 5	64
7-660040	201	238	< 1	< 0.01	16	1970	14	10	< 10	49	0.01	< 10	< 10	80	< 5	93
7-660041	201	238	< 1	0.01	15	1070	4	< 5	< 10	47	0.07	< 10	< 10	76	< 5	58
7-660042	201	238	< 1	0.02	21	1340	8	< 5	< 10	66	0.09	< 10	< 10	98	< 5	64
7-660043	201	238	< 1	0.03	25	810	8	< 5	< 10	63	0.13	< 10	< 10	89	< 5	57
7-660044	201	238	< 1	0.02	18	1150	8	< 5	< 10	64	0.09	< 10	< 10	82	< 5	71
7-850004	201	238	< 1	0.03	22	910	6	< 5	< 10	53	0.12	< 10	< 10	81	< 5	53
7-850005	201	238	< 1	0.02	20	1140	4	< 5	< 10	66	0.05	< 10	< 10	76	< 5	74
7-850006	201	238	< 1	0.02	20	1000	10	5	< 10	49	0.04	< 10	< 10	70	< 5	69
7-850007	201	238	< 1	0.02	21	960	< 2	< 5	< 10	51	0.04	< 10	< 10	83	< 5	73
7-850008	201	238	< 1	0.02	20	940	4	< 5	< 10	49	0.04	< 10	< 10	81	< 5	69
7-850009	201	238	< 1	0.03	25	950	6	< 5	< 10	46	0.07	< 10	< 10	115	< 5	70
7-850010	201	238	< 1	0.03	32	510	< 2	< 5	< 10	41	0.11	< 10	< 10	91	< 5	53
7-850011	201	238	< 1	0.03	28	820	4	< 5	< 10	46	0.11	< 10	< 10	74	< 5	67
7-850012	201	238	< 1	0.04	31	870	< 2	< 5	< 10	43	0.11	< 10	< 10	133	< 5	71
7-850013	201	238	< 1	0.02	48	1320	8	< 5	< 10	41	0.07	< 10	< 10	144	< 5	148

CERTIFICATION :



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Project: ~~WAS~~ CLAIM
 Comments: T. GARAGAN

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CERTIFICATE OF ANALYSIS A8716700

SAMPLE DESCRIPTION	PREP CODE		Au ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
			FA+AA	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm
7-62001	205	238	<u>470</u>	0.49	<u>102.0</u>	935	190	< 0.5	< 2	4.55	< 0.5	8	160	139	2.71	< 10	< 1	0.27	< 10	1.04	679
7-62002	205	238	<u>1250</u>	0.34	5.6	<u>1680</u>	170	< 0.5	< 2	1.95	< 0.5	5	237	41	2.00	< 10	< 1	0.18	< 10	0.23	469
7-62003	205	238	< 5	0.03	0.2	5	< 10	< 0.5	2	8.08	< 0.5	< 1	155	1	0.22	< 10	< 1	< 0.01	< 10	3.94	87
7-62004	205	238	< 5	0.14	0.2	15	5740	< 0.5	< 2	>15.00	< 0.5	5	7	< 1	5.31	< 10	< 1	0.01	< 10	5.45	2340
7-82001	205	238	< 5	2.21	0.2	25	110	< 0.5	< 2	7.44	< 0.5	37	64	8	10.10	10	< 1	< 0.01	< 10	3.29	1300
7-82002	205	238	< 5	1.45	0.2	< 5	120	< 0.5	< 2	2.17	< 0.5	31	117	260	7.97	< 10	1	0.16	< 10	1.62	431

CERTIFICATION :



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To: ARCHER CATRO & ASSOC. (1981) LTD.
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 3125 THIRD AVE.
 WHITEHORSE, YT
 Y1A 3S9
 Project: WAS CLAIM
 Comments: CC: T. GARAGAN

Page No. : 1-B
 Tot. Pages: 1
 Date : 6-JUL-87
 Invoice # : I-8716700
 P.O. # : NONE

CERTIFICATE OF ANALYSIS A8716700

SAMPLE DESCRIPTION	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Se	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
7-62001	205	238	1	< 0.01	7	290	84	70	< 10	72	< 0.01	< 10	< 10	17	< 5	93
7-62002	205	238	2	< 0.01	8	160	62	45	< 10	22	< 0.01	< 10	< 10	15	< 5	47
7-62003	205	238	< 1	< 0.01	5	110	6	< 5	10	51	< 0.01	< 10	< 10	1	< 5	14
7-62004	205	238	< 1	< 0.01	8	30	2	< 5	40	440	< 0.01	< 10	< 10	40	5	118
7-82001	205	238	< 1	< 0.01	67	150	< 2	5	20	209	0.01	< 10	< 10	596	< 5	70
7-82002	205	238	< 1	0.24	46	140	< 2	< 5	< 10	48	0.38	< 10	< 10	485	< 5	37

CERTIFICATION :

APPENDIX B
ROCK SAMPLE DESCRIPTIONS

Date: June 16, 1987 Project: WAS Claims Area: Red Mtn Page 1 of 1

Sample No.	Location	Description	Attitude	Width	Analytical Results		
					Au ppb	Ag ppm	As ppm
7-620001	30m downslope fr 7660034	intensely brecciated, limonite staining, qtz veining with carbonate altered diorite		boulders 10 cm diam.	470	102	935
7-620002	as above	as above: with 1% disseminated pyrite		as above	1250	102	1680
7-620003	w. ridge	highly silicious w/ 10% Ca, sugary qtz			<5	0.2	5
7-620004	w. ridge	qtz-ca veining, intensely hematitized			<5	0.2	15
7-820001		qtz-carb veined And, tr 2% py		boulders 60cm diam.	<5	0.2	25
7-820002		pyroxenite, 25% Ca, strongly mag.		boulders 80cm diam.	<5	0.2	<5

**APPENDIX C
STATEMENT OF QUALIFICATIONS**

STATEMENT OF QUALIFICATIONS

I, THOMAS GARAGAN, hereby certify that:

1. I am a geologist with Aurum Geological Consultants Inc. of 604 675 West Hastings Street, Vancouver, B.C. and I co-authored this report.
2. I obtained a Bachelor of Science degree with Honours in Geology from the University of Ottawa, Ontario, in 1980.
3. I am a fellow of the Geological Association of Canada (F3819) and a member of the Mineralogical Association of Canada and the Yukon Professional Geoscientists Society.
4. I have been engaged in mineral exploration and geological survey mapping on a full and part time basis for 9 years, of which 6 have been spent on mineral exploration programs in the Yukon Territory.
5. I have no interest in the claims or securities of All-North Resources Ltd. nor do I expect to obtain any.
6. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

DATED at Calgary, Alta., this 26th day of November 1987.



Thomas Garagan, B.Sc., FGAC

STATEMENT OF QUALIFICATIONS

I, PATRICIA GARAGAN, hereby certify that:

1. I am a geologist with Aurum Geological Consultants Inc. of 604 675 West Hastings Street, Vancouver, B.C. and I caused to be performed the work described in this report and co-authored this report.
2. I obtained a Bachelor of Science degree with Honours in Geology from the Acadia University of Nova Scotia in 1982.
3. I have been engaged in mineral exploration on a full and part time basis for 9 years, of which 3 have been spent on mineral exploration programs in the Yukon Territory.
4. I have no interest in the claims or securities of All-North Resources Ltd. nor do I expect to obtain any.
5. I consent to the use of this report in a company report or statement, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.

DATED at Calgary, Alta., this 26th day of November 1987.

P. Garagan

Patricia Garagan, B.Sc.