

MAP NO.: ASSESSMENT REPORT X
115 I 2 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092538
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: GEOCHEMICAL

REPORT FILED UNDER: R.A. Granger

DATE PERFORMED: June - October, 1988 DATE FILED: October 5, 1988

LOCATION: LAT.: 62°14'N AREA: Wolf Lake
 LONG.: 136°56'E VALUE \$: 4,050.00

CLAIM NAME & NO.: WOLF 1-8 13-50, 1-2 FRS
 WOLF 1-2, 27, 44, 49-50

WORK DONE BY: R.A. Granger

WORK DONE FOR: R.A. Granger

DATE TO GOOD STANDING:	

REMARKS: #98 WOLF
In 1988, 3 anomalous areas were better defined by fill-in soil sampling. The strongest anomaly lies north of the Freegold Road where the best sample contained 290 ppm As and 45 ppb Au. A bulldozer trench on the North zone uncovered vein containing coarse stibnite.



M.R. file no.
R.M.M.R. file no.
Date forwarded <i>5 October 1988</i>

TRANSMITTAL FORM

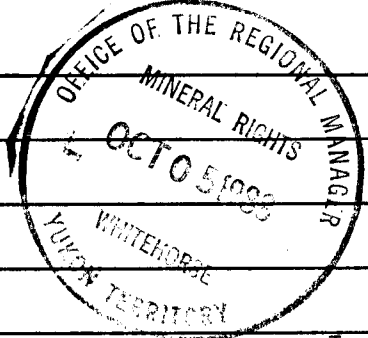
From Mining Recorder at: *Whitehorse*

To Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

<input type="checkbox"/> NEW APPLICATION FOR PLACER LEASE TO PROSPECT	Name	
<input type="checkbox"/> RENEWAL APPLICATION PLACER LEASE TO PROSPECT	Name	Lease no.
<input type="checkbox"/> AFFIDAVIT OF EXPENDITURE ON PLACER LEASE	Name	Lease no.
<input type="checkbox"/> SECURITY DEPOSIT		
<input type="checkbox"/> FINANCIAL ABILITY		
<input type="checkbox"/> ASSIGNMENT OF PLACER LEASE NO.	From	To
<input type="checkbox"/> GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT.	Owner	
<input type="checkbox"/> DIAMOND DRILL LOGS	Claims	Claim sheet no.
<input checked="" type="checkbox"/> QUARTZ ASSESSMENT REPORT	Claims <i>WOLF 1-8, 13-50, 1-2 FTS.</i>	Claim sheet no. <i>115-I-2</i>
	Type of report <i>Geochemical</i>	Submitted by <i>R.A. Granger</i>
	Cls. work performed on <i>WOLF 1-2, 27, 44, 49-50</i>	\$ req. for ren. application <i>4050.00</i>

[Signature]
Signature



092538

Date returned <i>7 October 1988</i>
--

REPLY ACTION

Approved for amount required

#98 WOLF

[Signature]
Signature

GEOCHEMICAL EXPLORATION

OF

THE WOLF GROUP OF MINERAL CLAIMS

Located on Claim Map No. 115I-2

62°14'N 136°56'E

by

R. A. Granger



June 1988 to October 1988

092538

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 \$ 4050.00.

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

882864

TABLE OF CONTENTS

	<u>PAGE</u>
INTRODUCTION	3
WORK DONE	3
PROPERTY	3
LOCATION	3
ACCESS	4
TOPOGRAPHY	4
REGIONAL GEOLOGY	4
LOCAL GEOLOGY	5
REGIONAL GEOCHEMISTRY	5
LOCAL GEOCHEMISTRY	5
GEOCHEMICAL SURVEY	6
RESULTS	6
TRENCHING	7
CONCLUSIONS	7
RECOMMENDATIONS	7
APPENDIX	
Statement of costs	8
 MAPS	
Fig.1 Location Map Fig.1(a) Detail of Location	
Fig.2 Claim Map	
Fig.3 Geochemical Survey Map 1986-1987	
Fig.4 Geochemical Detail Maps:	
North Zone (a), (b), (c), (d)	
South Zone	

INTRODUCTION:

This report is based on a program of geochemistry and trenching carried out by Ron A. Granger on a group of 50 mineral claims in the Mt. Freegold area of Yukon Territory during 1988.

The report has been compiled and written by R.A. Granger for submission to the Mining Recorder of the Whitehorse Mining District to satisfy assessment work requirements for claims Wolf 1 to 8, 10, 12 to 48, 49 & 50, plus Wolf 1 Fraction and 2 Fraction.

The work was carried out during the period June 1988 to Oct. 1988 by the following persons:

- Granger, R.A.-----prospector-----48 Tamarack Drive,
Whitehorse, Yukon. Y1A 4Y6.
- Granger, B.D.---dozer operator-----48 Tamarack Drive,
Whitehorse, Yukon. Y1A 4Y6.

WORK DONE:

- 1) local geology, prospecting and layout of lines for the detail-sampled grid.
- 2) sampling, 2.15 kilometres of line sampled @25m.
- 3) sample analysis, 53 samples analysed for Cu, Pb, Zn, Ag, As, Au, Sb & Hg. 7 rock samples analysed identically.
- 4) report and maps.
- 5) bulldozer trenching on soil anomalies.

PROPERTY:

The property consists of fifty Quartz Mining Claims named Wolf 1-8, 10, and 12-48; numbered YA84829-36, YA94838, and YA94840-60 & YA97089-97104; two fractional claims named Wolf 1 Fr. & 2 Fr. numbered YA97126 & 27; plus Wolf 49 & 50, numbered YB20350 & YB20351.

All of the claims are held by R.A. Granger, Whitehorse, Yukon.

LOCATION:

The claims are located surrounding Wolf Lakes, which are the headwaters to westerly-flowing Seymour Creek and easterly-flowing Crossing Creek. The Carmacks to Mt. Freegold Road passes through the claims from mileposts 31 Mile to 33 Mile putting the village of Carmacks that distance easterly, with Mt. Freegold about ten miles westerly. Co-ordinates are 64°14'N, 136°56'W.

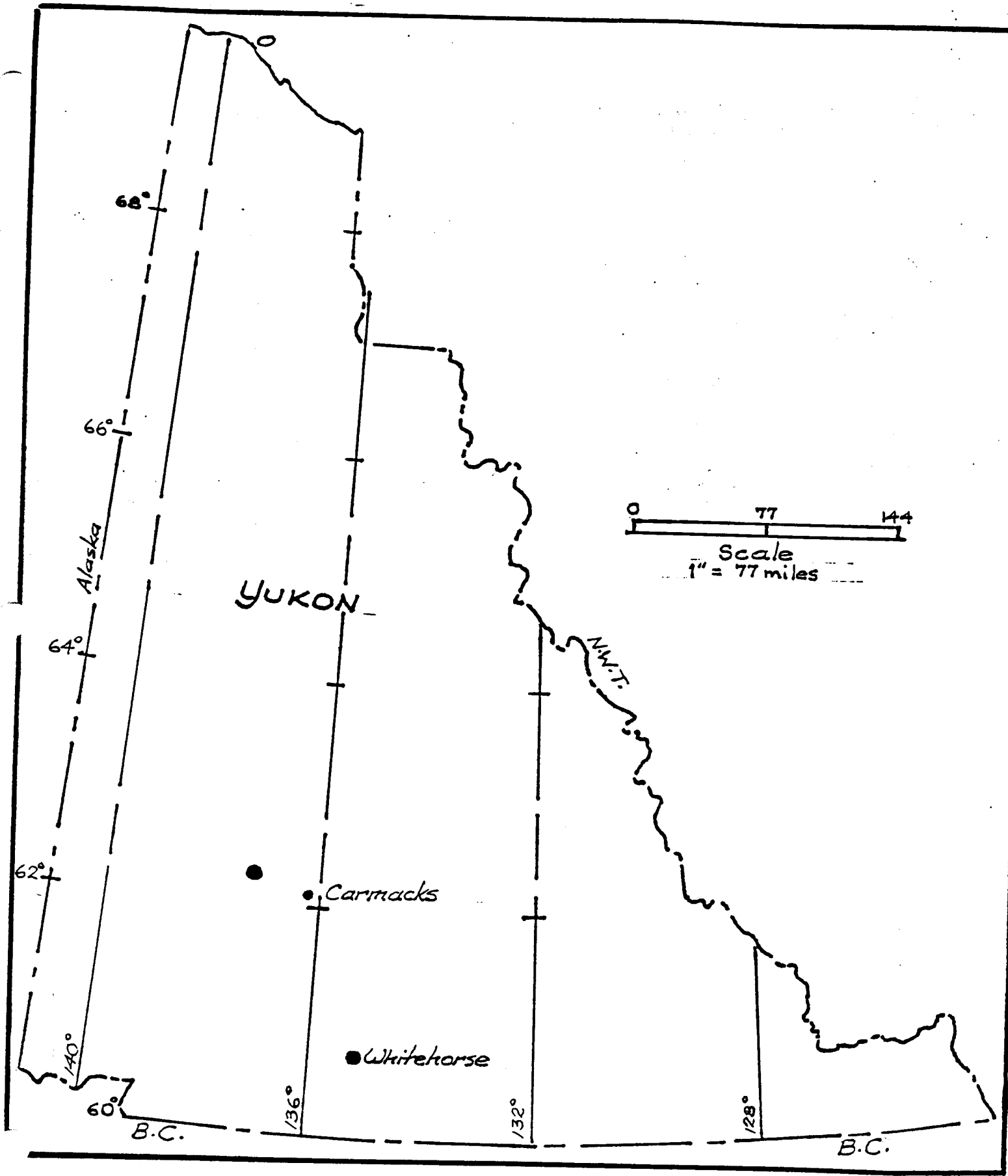
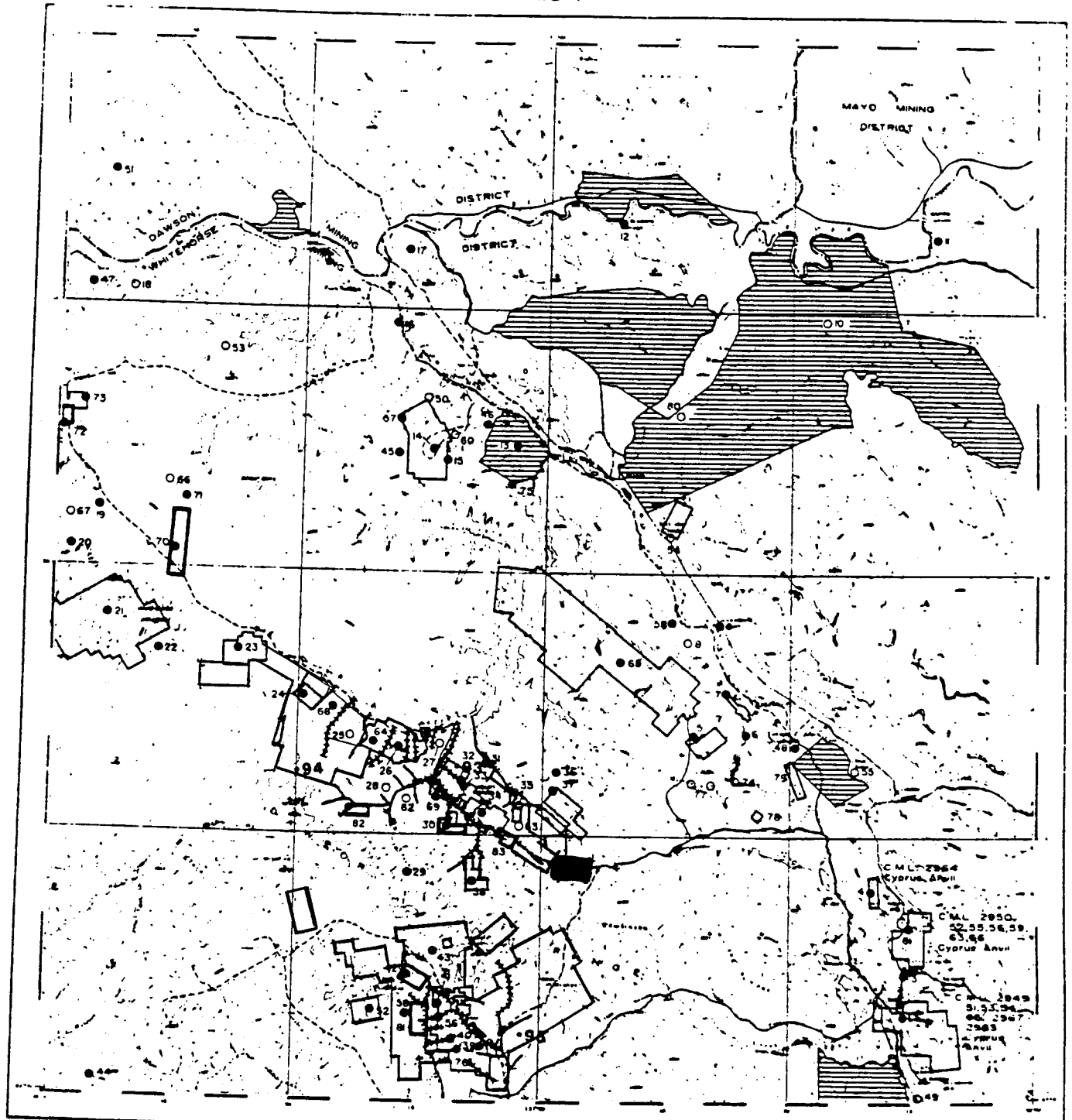
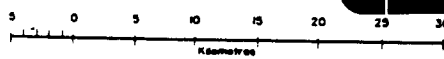


Figure 1

Preliminary Map Only



CARMACKS — Figure 1(a)
YUKON TERRITORY



Lands withdrawn from staking due to Native Land Claims (see specific claim map for accurate location and additional sites of withdrawal)

- Mineral Deposit or Occurrence see key on facing page
- Unmineralized Target
- Mineral Claims in good standing (Jan. 1964) and staked before Jan. 1963
- Mineral Claims staked in 1963

- Pinger Leases in good standing (Jan. 1964)
- Pinger Claims in good standing (Jan. 1964)
- CEL Coal Exploration Leases
- CML Coal Mining Lease

- Pinger Leases in good standing (Jan. 1964)
- Pinger Claims in good standing (Jan. 1964)
- CEL Coal Exploration Leases
- CML Coal Mining Lease

- Fero Trip
- Drivable Road
- ◆ On or Close to
- Airfield

ACCESS:

The claims are accessed by the Mt. Freegold road which traverses the northerly half of the claim group. This is an all-weather gravelled road maintained annually by the Government of Yukon. Carmacks lies about 110 miles north of Whitehorse by paved highway.

TOPOGRAPHY:

The bulk of the claim area lies in the valley bottom and the portion adjacent to the lakes and streams is deeply covered by overburden which appears to be largely frozen. There are some small drumlinoid hills and some morainal material toward the mountain slopes. Only the most northerly claims contain any steep slopes and some of this area is marked by small cliffs of outcrop.

REGIONAL GEOLOGY:

The geology of the Carmacks map sheet 115I is most recently revised by D.J. Templeman-Kluit in Open File 1101.

The structural and stratigraphic relationships of the various rock units are described as follows:

Table of Formations:

- Upper Cretaceous - Basalt flows of the Carmacks Group.
- Volcanic sandstone and conglomerate.
- unconformity
- Mid-Cretaceous - Andesitic plagioclase porphyry and andesite breccia as plugs, pipes and dykes.
- Rhyolite to dacite, quartz feldspar porphyry; innumerable dykes and small plugs
- intrusive contact
- Casino Granodiorite; biotite, hornblende granodiorite.
- intrusive contact
- Jurassic - Hornblende Syenite, porphyritic.
- intrusive contact
- Upper Triassic - Foliated biotite-hornblende granodiorite
- Permian ? - Hornblende-biotite-chlorite gneiss

LOCAL GEOLOGY:

During the course of work in 1986 and 1987 many of the outcrops on and near the claims were observed. The most interesting area was in the vicinity of claims Wolf 19 and 36 where gneisses and porphyries have been converted into fine to coarse fragment breccias. No outcrop was located in the vicinity of Wolf 27 where the antimony soil assays were strongest.

Table of Formations:

- 1) Unconsolidated gravel deposits formed during the last glacial advance which terminated at this point .
- 2) Thin, discontinuous remnants of gravel, Pre-Reid?
- 3) Basalt flows, Carmacks Group.
- 4) Quartz veins and included sulphide minerals; dikes and bodies of fine to medium syenite porphyry.
- 5) Foliated biotite granodiorite.
- 6) Gneissic syenite and augen gneiss.
- 7) Quartz-biotite gneiss.
- [8) Breccia, both large and small angular fragments.]

REGIONAL GEOCHEMISTRY:

An Open File on the silt geochemistry of 1151 was released during 1986 and this indicated the presence of antimony in all of the tributary streams in, and adjacent to, the Wolf Group of claims. One sample was strongly anomalous in five elements. The samples follow by order of their numbers:

#1827(SE of claims) Sb 0.2 ppm
#1828(S of claims) Sb 1.1 ppm
#1829(S of claims) Sb 1.8 ppm
#1830(on claims) Sb 4.0 ppm
#1831(NW of claims) Sb 0.9 ppm, Hg 192 ppb, As 350 ppm,
Zn 120 ppm, Au 12/12 ppb

LOCAL GEOCHEMISTRY:

A soil survey was carried out for gold and arsenic in 1986 which gave only limited encouragement. It was decided that fill-in sampling should be carried out, that further claims should be staked along the south boundary, and that sampling should be carried out on two hills in the swamp. This program was completed in 1987 and better results were had including anomalous antimony.

The Wolf Group was located to cover the projection of the "Big Ck. Fault" in an area marked by floats of rhyolite, altered mineralized diorite and quartz vein matter. The wide zone of

breccia might mark the location of the fault and be the source of the anomalous antimony assays.

GEOCHEMICAL FILL-IN SURVEY:

Lines were marked out between the 1987 lines where previous results suggested anomalous soils in two areas which were named North Zone and South Zone and resampling was done at 25 metre spacing on flagged lines. Samples were taken by mattock and placed in Kraft paper bags. The samples were rough dried at camp and strung in order before delivery to the Bondar-Clegg office in Whitehorse for analysis as follows:

1) Cu	Copper	1 ppm	HNO ₃ -HCl	Hot Extr	Plasma	Emission Spec.
2) Pb	Lead	5 ppm	" "	" "	" "	" "
3) Zn	Zinc	1 ppm	" "	" "	" "	" "
4) Ag	Silver	0.5 ppm	" "	" "	" "	" "
5) As	Arsenic	5 ppm	" "	" "	" "	" "
6) Au	Gold	5 ppb	Fire-Assay		Fire-Assay	AA
7) Sb	Antimony	5 ppm	HNO ₃ -HCL	Hot Extr	Plasma	Emission Spec.
8) Hg	Mercury	5 ppb	" "	" "	" "	" "

Samples were sized to -80 mesh after drying in preparation for analysing.

During the collection of the samples the mattock was utilized to penetrate the organic and ash layers in order to get clean B horizon material. The soils in the Wolf Group of claims are notably less mature than those found only a short distance to the west where pre-Reid soils are found.

RESULTS:

The soil geochemistry anomalies found during the 1986,87 surveys were substantiated and better defined. The North Zone results were anomalous in Sb,Hg,As,Pb,Zn and gold and were largely coincident although the antimony results were broader and partly independant of other elements.

Although mild the anomalous zones contour well and the gold results fit the arsenic results to a favourable degree, while the antimony results tend to occur seperately in the South Zone. The background level for antimony is <5 ppm with 18 assays exceeding 10 ppm out of 53 soils in the two zones.

Antimony is the most anomalous element in the South Zone but a few low gold results were obtained this year.

TRENCHING:

A D-4E bulldozer was used to cut a bedrock trench about 100 yards long, 5 yards wide and 2 yards deep on the North Zone where a small vein was uncovered carrying coarse stibnite, see rock sample RW002. Other small veins were anomalous in several metals as shown in rock sample assays RW001 and RW003,4.

Three trenches were cut into bedrock both above and below the Mt. Freegold Road just east of the Granite Mtn. Trail cut-off but although considerable alteration was disclosed no explanation was found for the soil anomaly. Since no detail samples were taken here it is possible that the source lies uphill.

Due to problems no trenching was accomplished on the South Zone.

CONCLUSIONS:

There are three areas of anomalous geochemical assays in soils discovered to date on the Wolf claim group. The broadest zone occurs on the Wolf 1,2 & 50 claims and it contains two areas of particular interest, the first at and below the road and the second to the north on the mountain slope.

The small gravelly hill on Wolf 26 is part of the geological system that gave rise to the anomalous antimony stream sediment results in the Government survey of 1151 map sheet. It appears most likely that the center of this mineralization lies in the swamp just south of the hill and it should strike E-S-E.

The area just north of the hill on Wolf 36 needs further work but as the area is covered by swamp this might prove difficult.

Rock sample W-1 consisted of a number of mineralized floats from Wolf 1 FR. taken in the vicinity of Govt. silt sample #1837. Since this sample is strongly anomalous in several elements a grid should be detail sampled in this area.

RECOMMENDATIONS:

It is recommended that further work be carried out on the anomalous areas and that further soils be taken in the area to the east of the North Zone as delimited to date. A continuation of the trenching work should be carried out in 1989.

Respectfully submitted,



Ron A. Granger.
October 1988.

APPENDIX

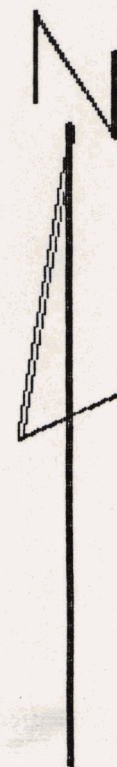
COST OF GEOCHEMICAL & BULLDOZING WORK

WOLF CLAIMS

1988

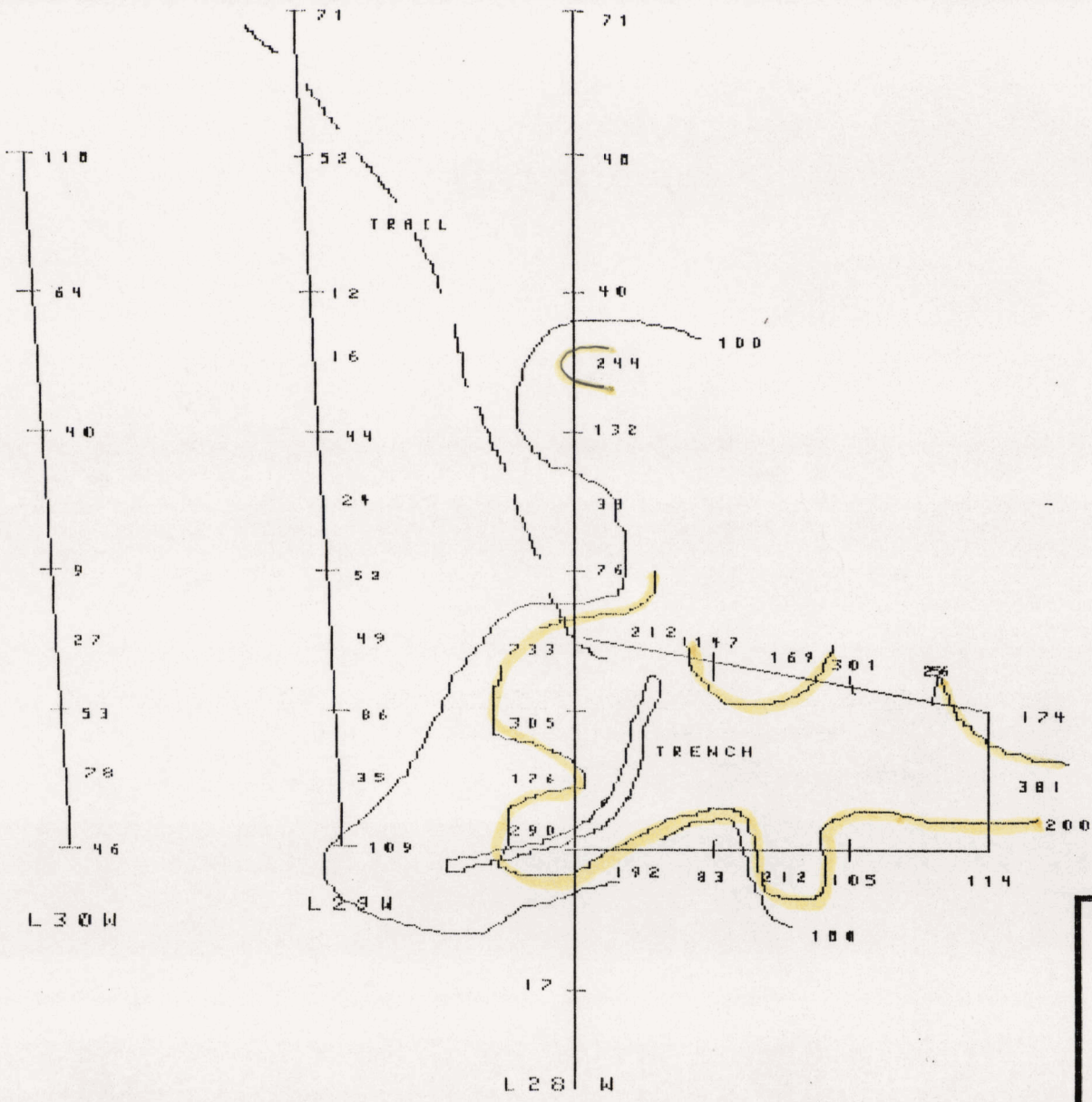
1) Soil sampling and lines, 3 days @ \$150	\$ 450.00
2) Assaying 62 @ \$20.50	1271.00
3) Prospecting & geology 2 " " "	300.00
4) Camp and supplies	143.00
5) Vehicle 12 * \$40	480.00
6) Office, report and maps	522.00
7) Receiver General, maps	6.00
8) Bulldozer 42hr* \$60	2520.00
	<u>5692.00</u>
Total Cost of Program:	\$ 5692.00

This work has been applied for and distributed.



003

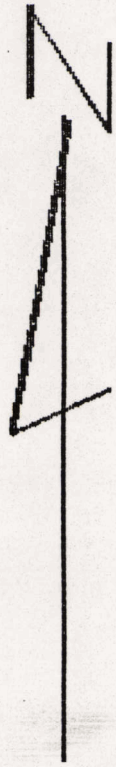
WOLF GROUP
 DETAIL NORTH ZONE
 Hg GEOCHEMISTRY
 1:2500 30 SEP/88 RAG



L 30 W

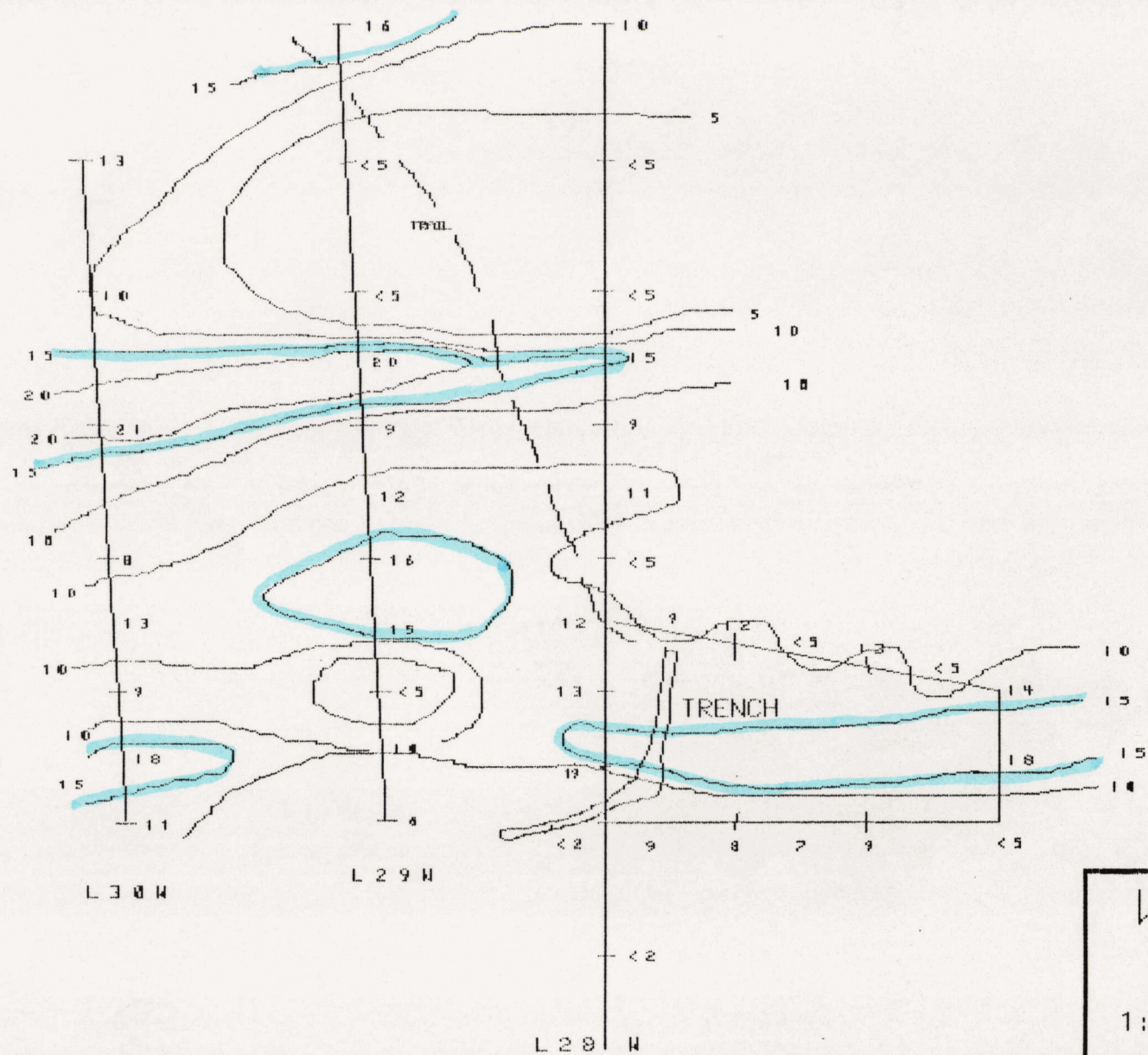
L 29 W

L 28 W



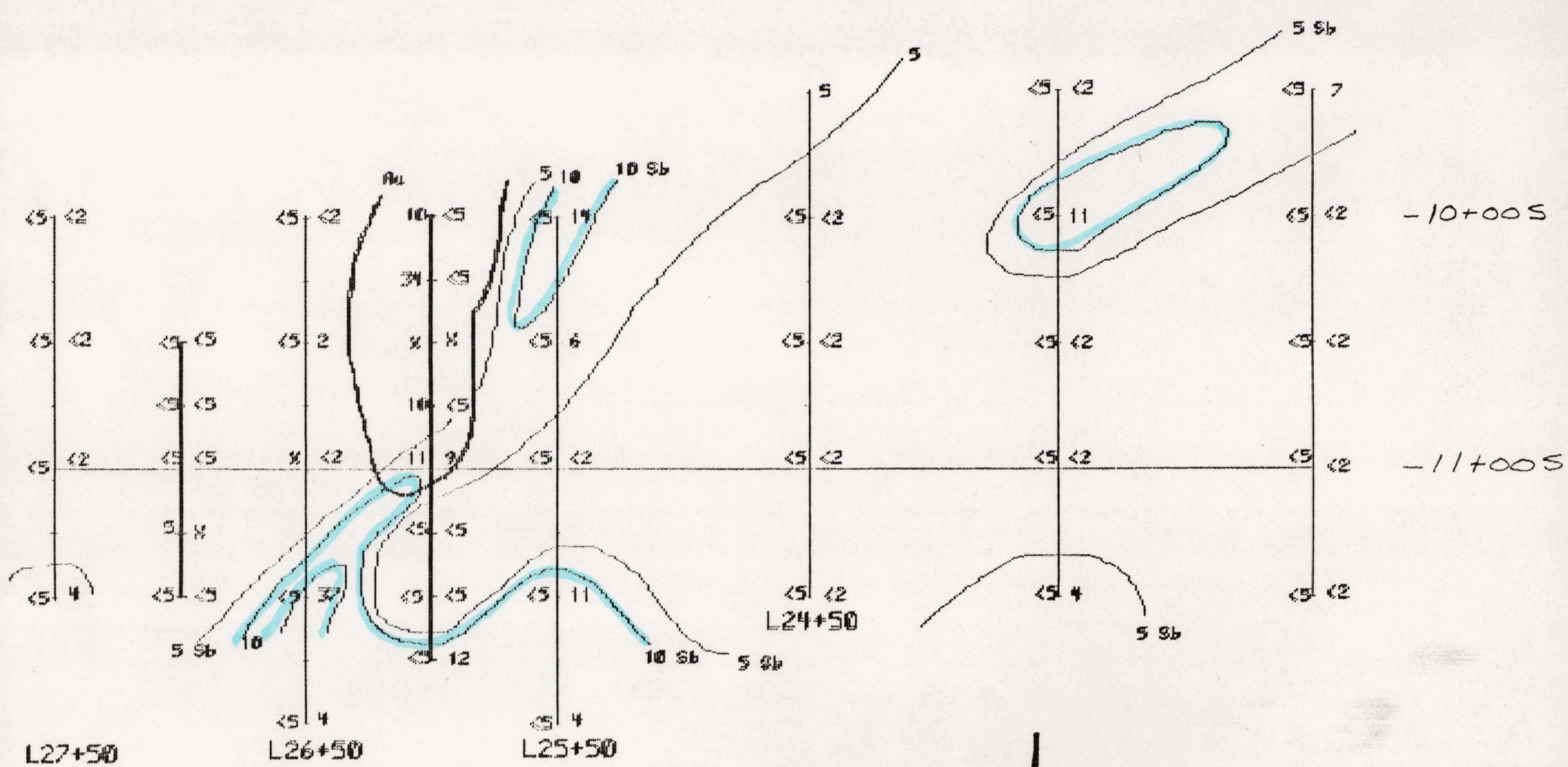
001

WOLF GROUP
 DETAIL NORTH ZONE
 As GEOCHEMISTRY
 1:2500 30 SEP/88 RAG

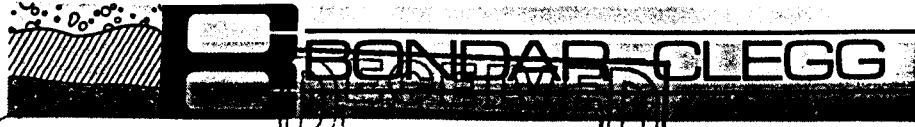


002

WOLF GROUP
 DETAIL NORTH ZONE
 Sb GEOCHEMISTRY
 1:2500 30 SEP/88 RAG



WOLF GROUP		
DETAIL SOUTH ZONE		
Au-Sb GEOCHEMISTRY		
1:2500	30 SEP/88	RAG



SEP 19 1988

REPORT: V88-N6800.0

PROJECT: NONE GIVEN

PAGE 1

WOLF

SAMPLIF NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Ag PPM	As PPM	Cu PPM	Mo PPM	Pb PPM	Sb PPM	Zn PPM	Hg PPB
<i>5+25</i> S1 W013		23	25.0	0.8	176	28	<1	50	19	206	240
S1 W014		75	30.0	<0.5	305	14	<1	33	13	141	300
S1 W015		89	25.0	<0.5	733	11	<1	18	12	123	700
S1 W016		9	30.0	<0.5	76	16	<1	5	<5	81	40
S1 W017		<5	30.0	0.6	33	15	<1	7	11	54	10
S1 W018		9	30.0	<0.5	132	13	1	21	9	85	20
S1 W019		10	30.0	0.5	244	16	5	13	15	64	30
S1 W020		<5	30.0	<0.5	40	12	<1	17	<5	90	20
S1 W021		<5	30.0	0.8	40	53	<1	19	<5	101	30
<i>8N</i> S1 W022 <i>L28W</i>		<5	25.0	<0.5	71	14	<1	<5	10	86	30
<i>8N</i> S1 W023 <i>L29W</i>		<5	25.0	<0.5	71	20	<1	23	16	139	70
S1 W024		<5	30.0	<0.5	52	22	<1	12	<5	72	40
S1 W025		<5	30.0	<0.5	12	20	<1	14	<5	87	25
S1 W026		<5	30.0	0.5	16	39	2	8	20	55	20
S1 W027		<5	30.0	<0.5	44	13	<1	8	9	75	15
S1 W028		<5	25.0	<0.5	24	12	<1	7	12	87	20
S1 W029		<5	30.0	0.9	52	12	<1	7	16	83	30
S1 W030		<5	22.0	<0.5	49	13	<1	14	15	132	30
S1 W031		<5	30.0	0.9	86	14	2	12	<5	105	30
S1 W032		<5	25.0	<0.5	35	20	<1	12	10	131	15
S1 W033 <i>L29W</i>		<5	30.0	<0.5	109	21	1	9	6	115	35
<i>5N</i> S1 W034 <i>L30W</i>		<5	30.0	<0.5	46	22	<1	12	11	94	10
S1 W035		<5	30.0	<0.5	78	20	<1	17	18	96	20
S1 W036		<5	30.0	<0.5	53	14	<1	6	9	76	20
S1 W037		<5	26.0	<0.5	27	14	1	11	13	66	20
S1 W038		<5	30.0	0.7	9 <i>LN</i>	23	<1	14	8	59	10
S1 W039		<5	30.0	<0.5	40	18	<1	9	21	82	15
S1 W040		<5	17.0	<0.5	64	8	<1	9	10	175	15
<i>7+50N</i> S1 W041 <i>L30W</i>		<5	25.0	0.8	110	9	<1	16	13	257	20
S1 W042 <i>XL 5N</i>		7	30.0	<0.5	192	14	<1	45	9	183	65
S1 W043		5	30.0	0.5	83	25	<1	14	8	80	70
S1 W044		8	30.0	<0.5	212	29	2	15	7	98	220
S1 W045		<5	30.0	<0.5	105	15	?	12	9	68	50
S1 W046		<5	30.0	<0.5	114	13	<1	<5	<5	69	135
S1 W047 <i>N</i>		35	30.0	<0.5	381	21	<1	10	18	66	420
S1 W048 <i>1)</i>		8	24.0	0.7	174	21	2	9	14	93	185
S1 W049 <i>w on 5+50N</i>		23	25.0	<0.5	296	19	3	12	<5	71	220
S1 W050		32	30.0	<0.5	301	13	1	13	13	53	215
S1 W051		19	29.0	<0.5	169	20	<1	8	<5	68	240
S1 W052 <i>w</i>		<5	30.0	<0.5	147	19	2	22	12	118	30

53

092538



REPORT: V88-05662.0

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Au/wt G	Ag PPM	As PPM	Cu PPM	Mo PPM	Pb PPM	Sb PPM	Zn PPM	Hg PPB
S1 W001		<5	30.0	0.6	35	20	2	6	<5	53	40
S1 W002		5	30.0	IS	IS	IS	IS	IS	IS	IS	30
S1 W003		<5	30.0	0.7	11	21	2	13	<5	58	15
S1 W004		<5	15.0	<0.5	49	19	2	10	<5	82	80
S1 W005		<5	30.0	0.9	35	15	1	8	<5	45	40
S1 W006		10	15.0	<0.5	45	7	<1	7	<5	44	50
S1 W007		34	15.0	0.6	33	22	1	16	<5	76	95
S1 W008		10	15.0	<0.5	79	23	<1	9	<5	114	35
S1 W009		11	30.0	<0.5	44	20	3	7	9	73	35
S1 W0010		<5	25.0	<0.5	24	10	<1	9	<5	65	50
S1 W0011		<5	25.0	<0.5	27	9	<1	6	<5	50	25
S1 W0012		<5	20.0	<0.5	21	11	<1	<5	12	70	45
R2 RW001		121	30.0	0.9	816	<1	<1	392	174	339	>5000
R2 RW002		232	30.0	1.1	775	19	8	3970	>20000	1150	>5000
R2 RW003		347	30.0	0.9	679	<1	4	717	1660	383	>5000
R2 RW004		45	30.0	5.2	>20000	28	7	6573	509	719	>5000

racks
 trench
 wolf
 50
 North
 Zone

RECEIVED
 SEP - 8 1988

92538



REPORT: V88-05633.0

PROJECT: NONE GIVEN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au 30g PPB	Ag PPM	As PPM	Cu PPM	Mo PPM	Pb PPM	Sb PPM	Zn PPM	Hg PPB
R2 W-1		558	2.0	>2000	15	3	193	11	253	>5000
R2 W-2		7	<0.5	63	14	1	15	<5	158	1100
R2 W-3		<5	<0.5	43	10	<1	<5	<5	236	1750
R2 W-4		<5	<0.5	7	9	<1	<5	<5	86	70
R2 W-5		66	<0.5	1646	8	2	87	<5	100	1900

} road area
trenches
200' from W-1

- 6 1988

092558