

093722

**TRENCH MAPPING AND SAMPLING REPORT
ON
ANG 1 - 20 CLAIMS**

**WHITEHORSE MINING DISTRICT, YUKON
NTS 115 1/3**

for

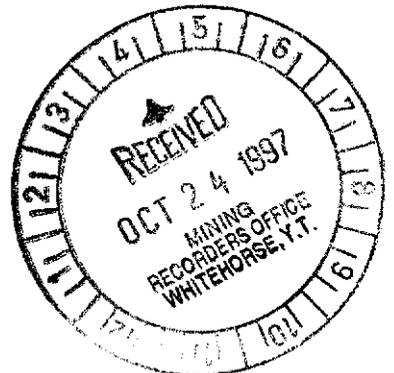
Eugene Curley

by

Larry W. Carlyle, F.G.A.C., P. Geol.

Whitehorse, Yukon

October, 1997



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
C. \$ 800.00.

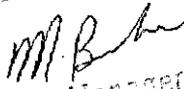
for 
Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

TABLE OF CONTENTS

	Page
Introduction	1
Location, Access and Claims	1
Regional Geology	2
Local Geology	3
Mineralization Types and Controls	4
1997 Work Program	5
Soil Sampling Program	5
Trenching Program	8
Conclusions	10
Recommendations	11
References	12
1997 Statement of Costs	13
Statement of Qualifications	14

FIGURES

	Following Page
Location Map	1
Claim Map	1
Tectonic Setting	2
Geology Map	3
Soil Sample Location Map	5
Trench Locations Map	8
Trench Geology & Assay Maps	9

TABLES

Page

Claim Data

1

Assay Value Table

6

Trench Volume Tables

8

Following Page

Trench Sample Description Table

10

APPENDICES

Appendix A – Analytical Certificates

Appendix B – Invoices Supporting Statement of Costs

INTRODUCTION:

In early September, 1997, Larry Carlyle was asked by Eugene Curley to visit his ANG Claims to map and sample some trenches he had had excavated. The trench excavation had been directed by two sets of soil sampling which Mr. Curley had performed on the claims.

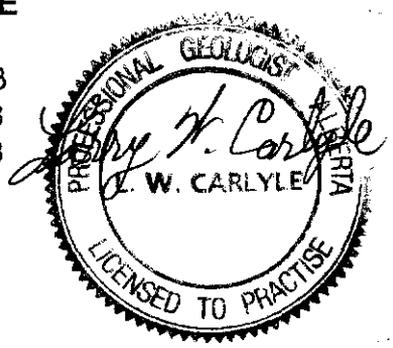
The property was visited and the mapping and sampling was performed on September 3 and 4, 1997. This report will summarize the soil sampling and trenching performed and discuss their results.

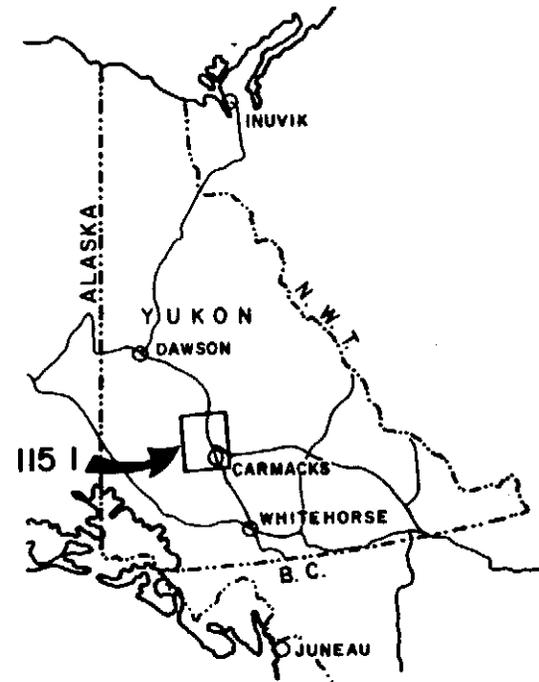
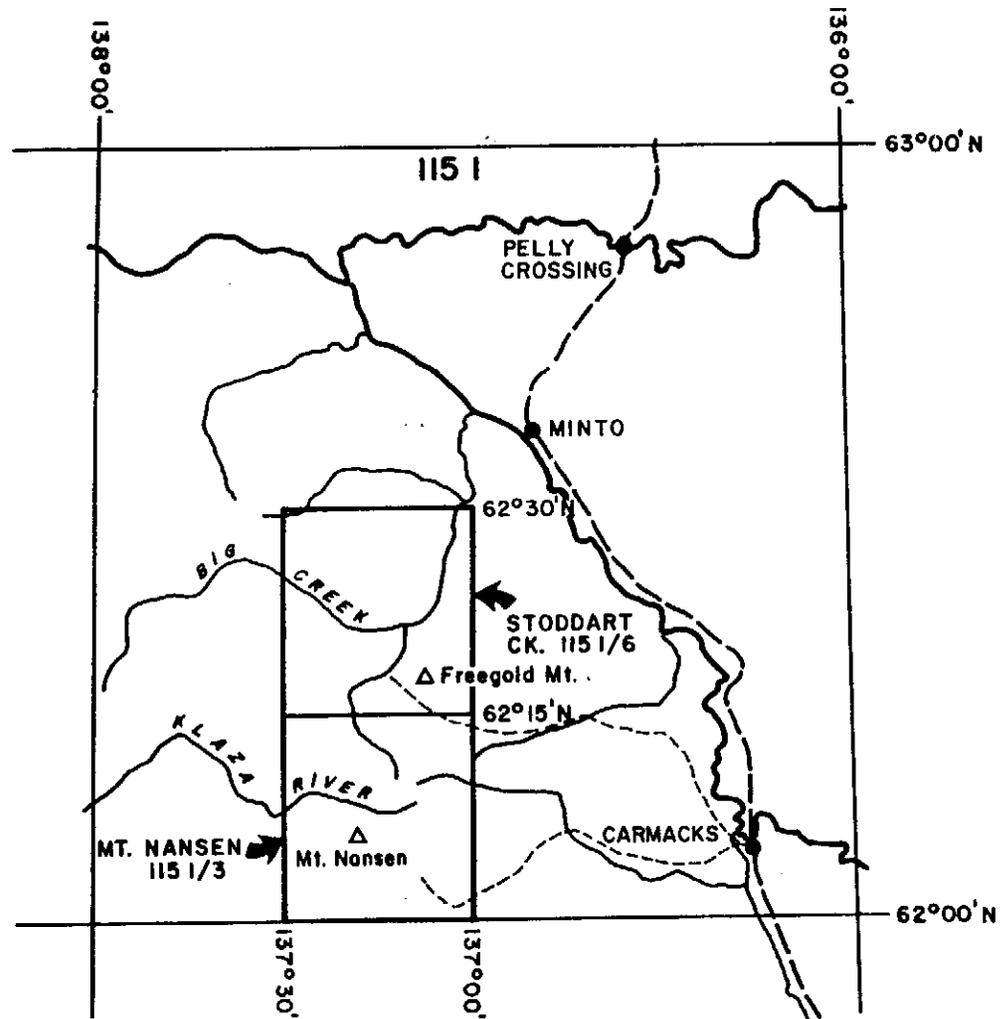
LOCATION, ACCESS AND CLAIMS:

The property is located on the Mt. Nansen Map Sheet, NTS 115 I/3. The claims are situated 4 - 5 km.(4 miles) northeast of the Mt. Nansen (BYG) Mine site (See Claim Map).

The mine site is accessed using a good 2-wheel drive road which leaves the North Klondike Road at Carmacks. This road is maintained to the mine on a year-round basis. From the mine site, the property was accessed along cat roads, old cat trenches and other trails using two Suzuki 4X4 ATV's provided by Mr. Curley.

CLAIM NAME	GRANT NUMBERS	EXPIRY DATE
ANG 1 - 8	YB 57672 - YB 57679	June 19, 1998
ANG 9 - 16	YC 08089 - YC 08096	Aug. 13, 1998
ANG 17 - 20	YC 08155 - YC 08158	Aug. 25, 1998

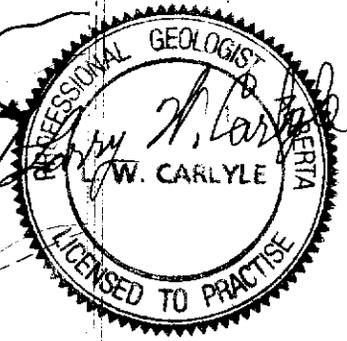
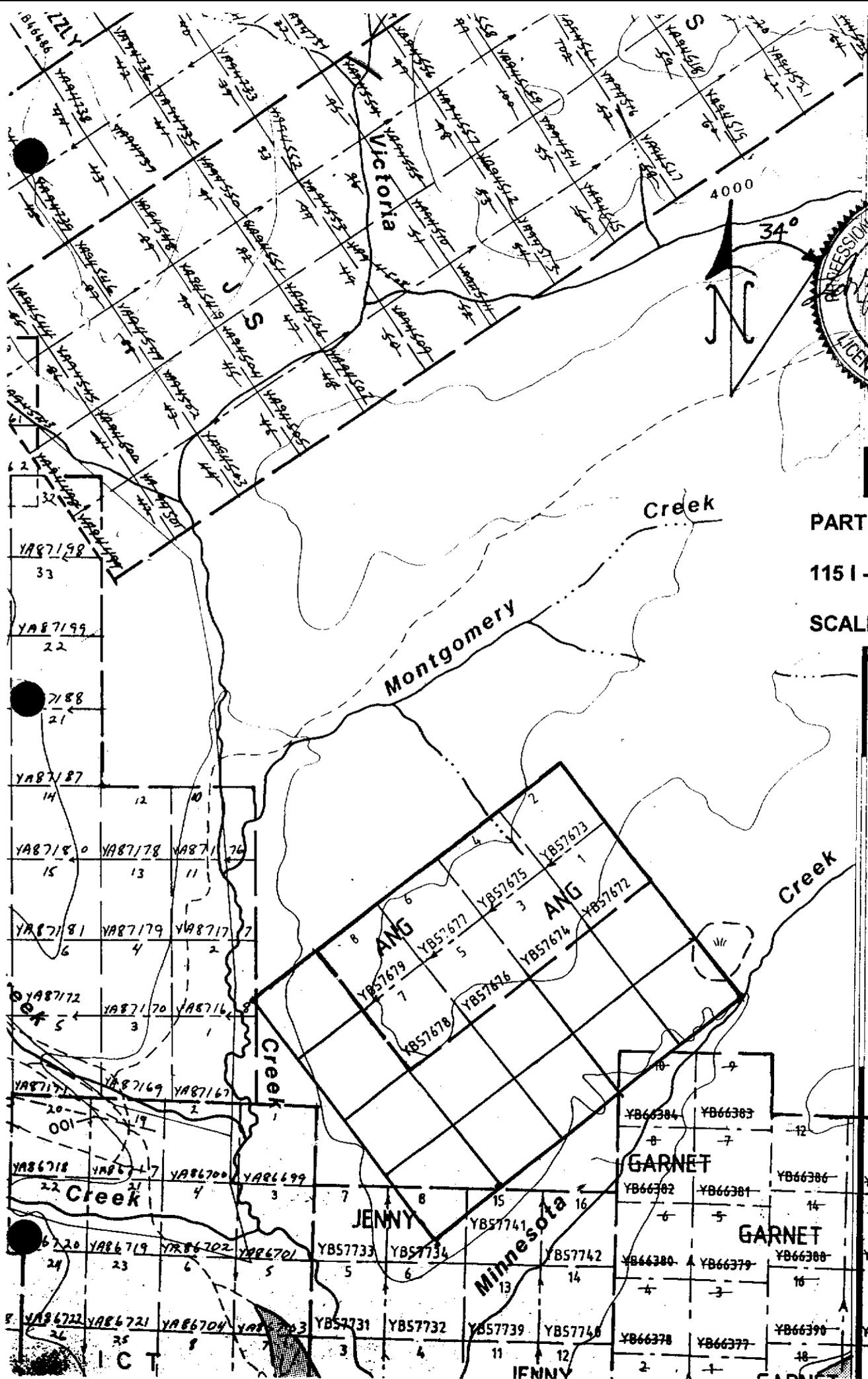




From Open File 1987 - 2
by Gerald G. Carlson

LOCATION MAP

Figure 1



PART OF CLAIM MAP
 1151-3 (QUARTZ)
 SCALE: 1:30,000

These claim data have been confirmed at the Whitehorse Mining Recorder's Office. The claim map has been updated by the writer; since the government drafting personnel have not had the opportunity to do so.

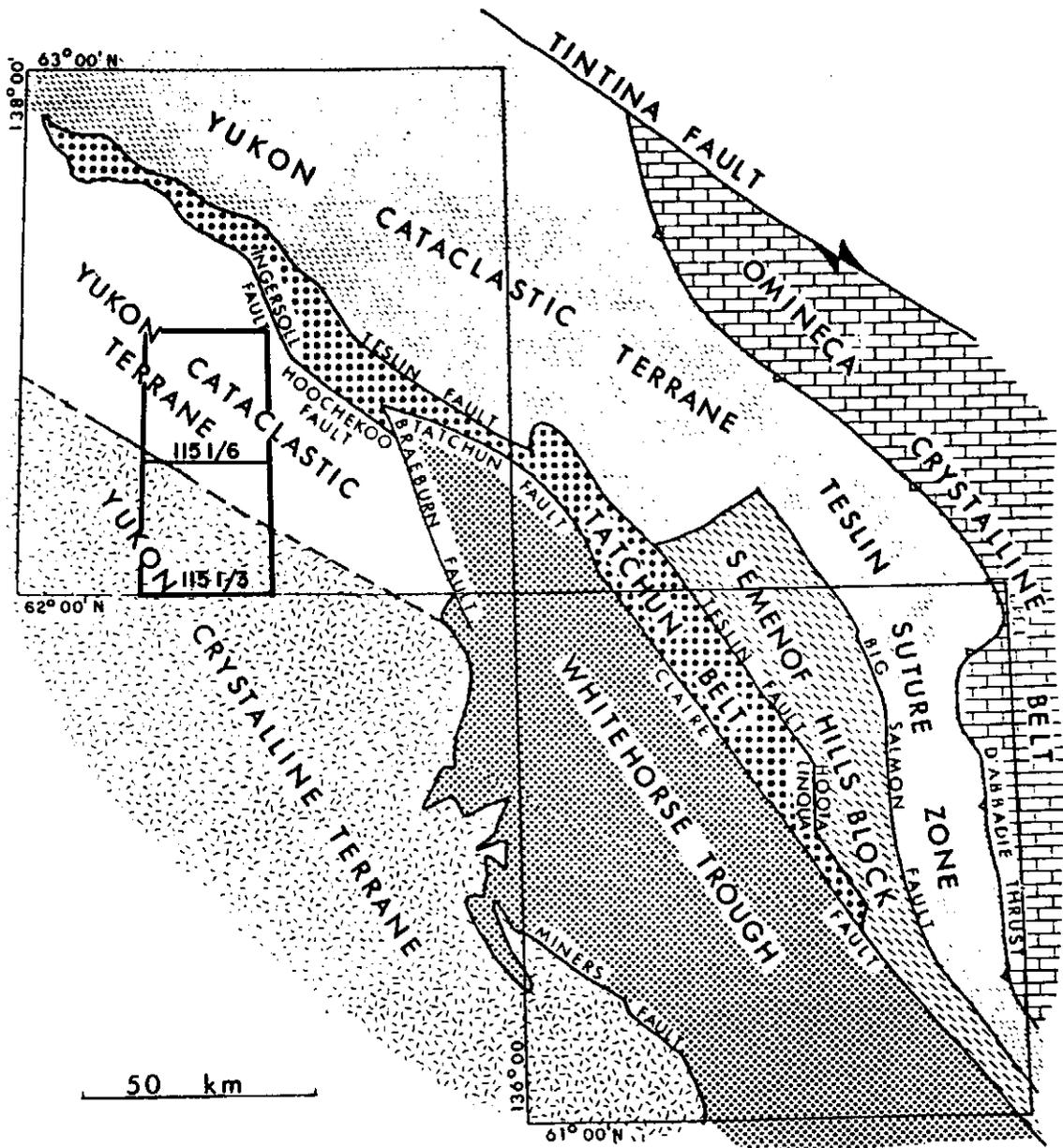
REGIONAL GEOLOGY:

The regional geology of the area has most recently been described by Gerald Carlson in "Geology of Mount Nansen (115-I/3) and Stoddart Creek (115-I/6) Map Areas"; in Indian and Northern Affairs Canada: Yukon Region, Open File 1987-2. This geology is summarized below.

The southern part of the Mt. Nansen Map Sheet, where the property is located, has basement rocks of the Yukon Crystalline Terrane which include metamorphosed and deformed sedimentary, volcanic and plutonic rocks of unknown age. The basement rocks have been intruded by two suites of foliated plutonic rocks, the Upper Triassic to Jurassic Klotassin Suite, mainly hornblende-biotite granodiorite; and the Jurassic Big Creek Suite, including K-feldspar porphyritic syenite, quartz syenite, and monzonite.

The Dawson Range Batholith intruded the area in the Early Cretaceous (106 Ma). It consists of the Casino Granodiorite and the localized Coffee Creek Granite. The Mount Nansen Volcanics are possibly cogenetic with these intrusives. The Mt. Nansen Volcanics are mainly andesite with lesser felsic components.

Carlson has identified the Bow Creek Granite which appears to be younger than the Mt. Nansen Volcanics since it appears to cut them. He describes it as being



TECTONIC SETTING
 (AFTER TEMPELMAN - KLUIT, 1978)

From Open File 1987 - 2
 by Gerald G. Carlson

Figure 2

a high level, granophyric pluton with related, peripheral quartz-feldspar porphyry dykes which may be as young as the Carmacks volcanism.

The Carmacks Volcanic Suite is Late Cretaceous (approx. 68 Ma.) in age and is relatively flat-lying. It has been divided into three units. The lowest unit consists of felsic pyroclastic rocks and associated glassy domes or plugs. The middle unit seems to be relatively thin in the map area and consists of andesite flows and pyroclastics with minor basalt. The upper unit consists mainly of basalt flows and has the most extensive exposure.

LOCAL GEOLOGY:

Carlson has mapped most of the area underlying the claims as being Unit 2c (See Geology Map). This unit is described as being a Paleozoic and older basement metamorphic complex consisting of biotite-quartz-feldspar schist, feldspar augen gneiss, amphibolite, minor quartzite, and marble.

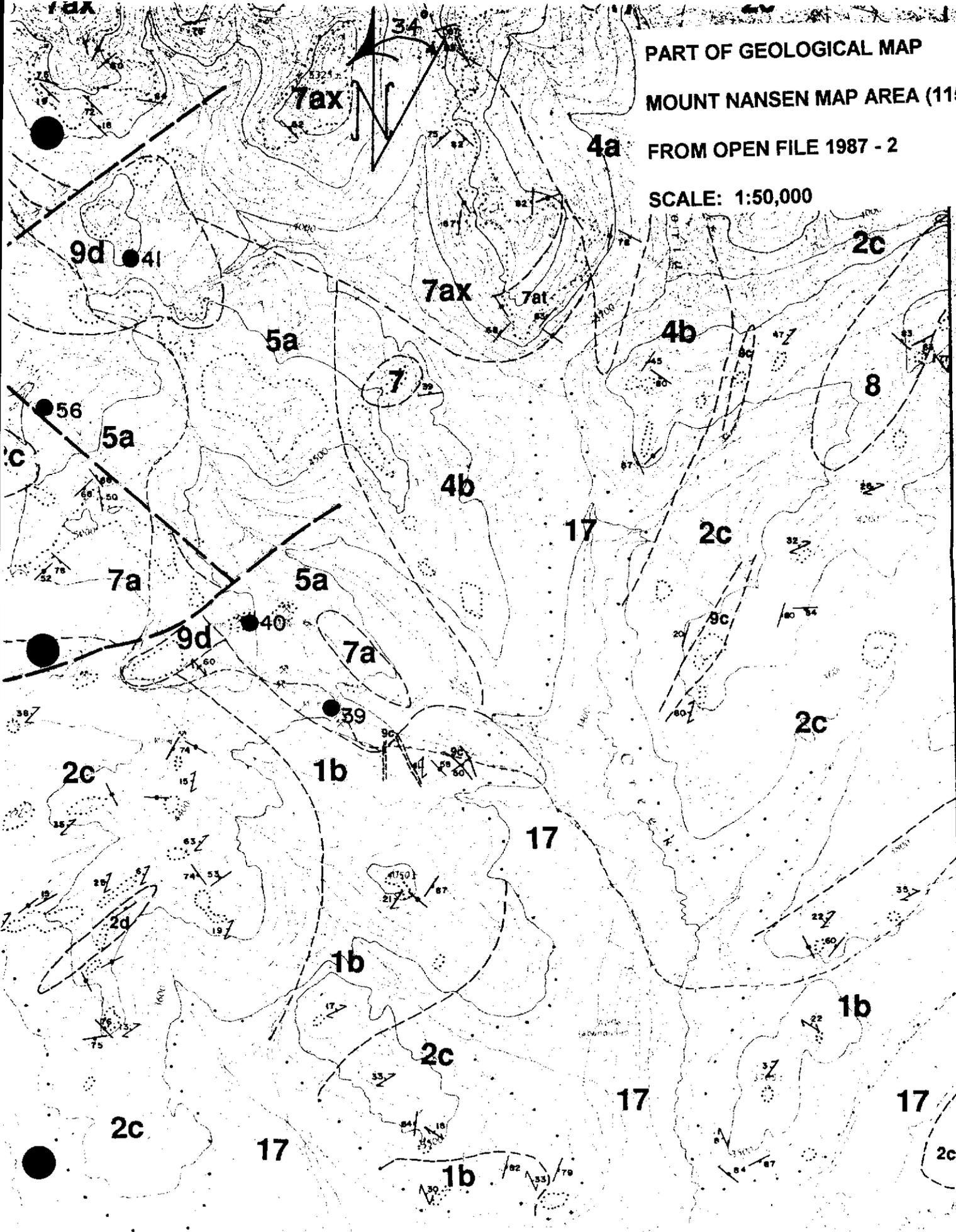
A zone of Early Jurassic Mount Freegold Meta-Plutonic Suite (4b) is mapped as going under the alluvial cover near the northwest corner of the claim block.

These rocks are mapped as being plagioclase-hornblende monzonite.

Carlson has mapped a zone of his newly described Bow Creek Granite (8) near the northeast corner of the claims. This granite is described as being pink weathering fine-grained biotite with minor chlorite. It is believed that this granite was located at the south end of Trench # 3.

PART OF GEOLOGICAL MAP
MOUNT NANSEN MAP AREA (115 I - 3)
FROM OPEN FILE 1987 - 2

SCALE: 1:50,000



Carlson has mapped a zone of quartz-feldspar porphyry dykes (9c) cutting directly through the portion of the claims in which the trenches lie. It is for this reason that the soil sampling and trenching were performed in this area. These dykes were mapped by this writer as quartz-feldspar gneiss in the trenches.

MINERALIZATION TYPES AND CONTROLS:

There are four types of mineral deposits recognized in the area: porphyries, veins, skarns, and placer. Most of the creeks in the area have seen some mining for their placer gold values. The porphyries are low grade copper-molybdenum deposits with local gold enrichment in their upper parts. Breccias with elevated precious metal values occur within the porphyries and also peripherally with quartz-feldspar porphyry dykes. Most of the mineralization in the claim area has been found in gold-silver quartz veins which occur in dilational fracture systems also peripheral to the porphyries. Gold-bearing iron-rich skarns have been located in calcareous meta-sediments of the Yukon Crystalline Terrane. Base metal-rich veins are rare and distal from the porphyries.

Four mineralization controls are recognized:

1. Proximity to the Big Creek Fault and the Minto Linear which are major regional structures which strike north-northeasterly through the area.
2. Local structures are important as hydrothermal channelways and vein sites. Most of these trend northwesterly to northeasterly.
3. The presence of a favourable host; these include Mt. Nansen volcanics, siliceous meta-sediments, and Casino Granodiorite.
4. Proximity to porphyry stocks or quartz-feldspar porphyry dykes.

1997 WORK PROGRAM:

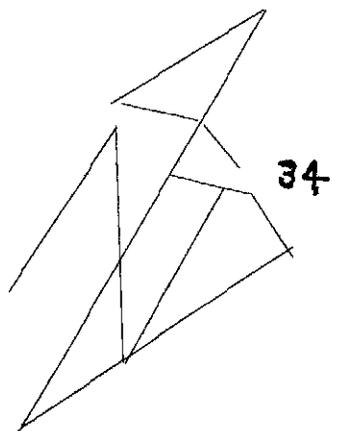
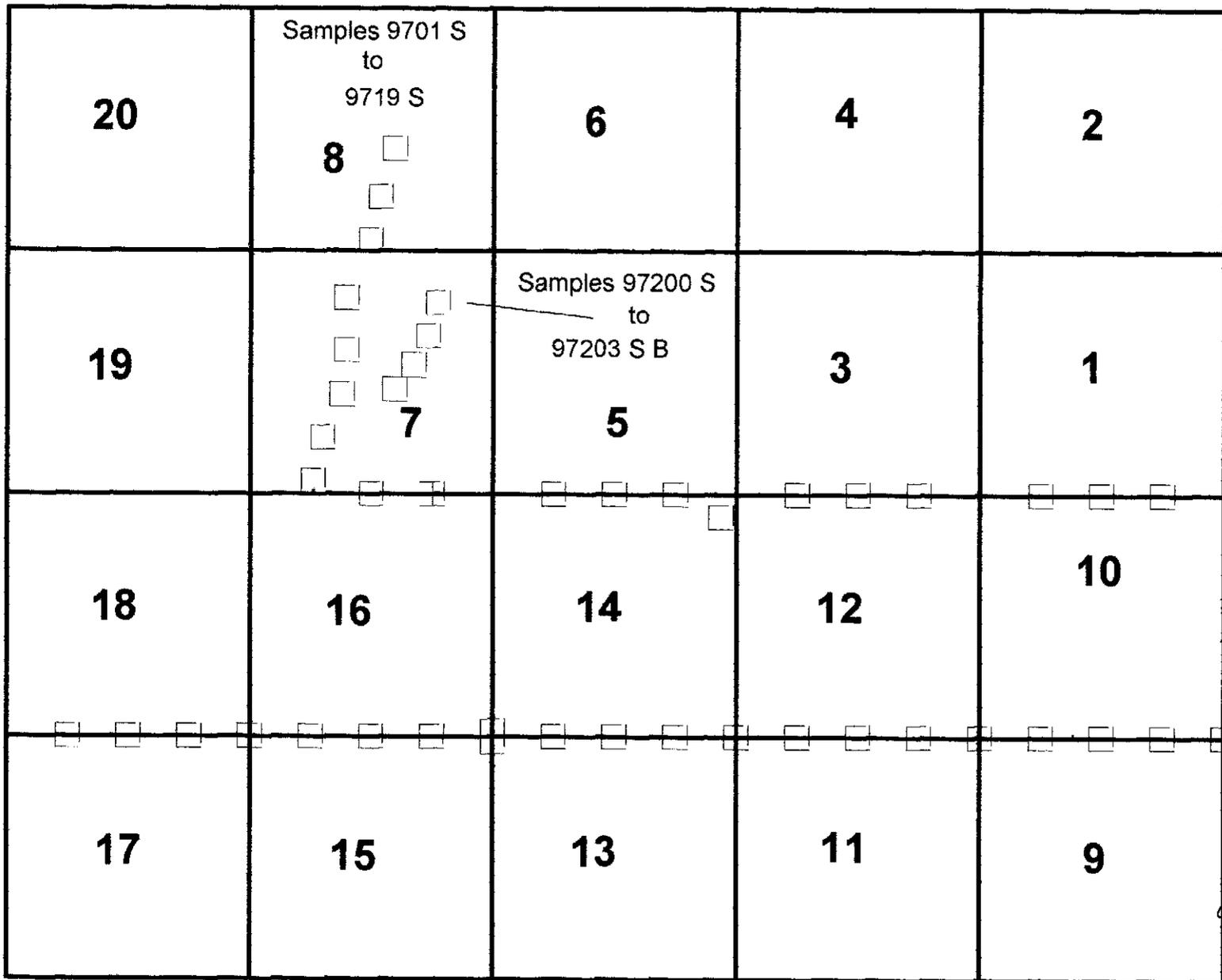
Work was performed on the ANG Claims on September 3 and 4, 1997. Trenches 1, 2, and 3 were mapped and sampled by the writer. Mr. Curley had taken a couple of samples from Trench 4 (assays included in this report). Five small backhoe test holes had been excavated but were frozen so were not sampled (See Trench Locations Drawing).

Soil Sampling Program:

This trenching had been directed by a couple of small soil sampling programs which Mr. Curley had completed earlier in the summer. The writer has included a drawing (Soil Sample Locations) showing the lines along which the soil samples were taken.

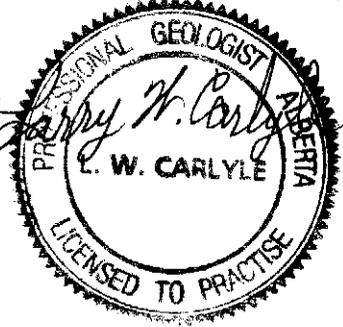
The first soil sampling were the long and short lines striking approximately north-south through ANG Claims 7 & 8. These samples were taken across the expected strike of the quartz-feldspar porphyry dyke mapped by Carlson. The samples in the long line started at the north end with Sample # 9701 S and went to Sample # 9719 S. These samples were taken at approximately 50 meter intervals. The short line started again at the north end with Sample # 97200 S and went to Sample 97203 S B (See Assay Value Table).

The second soil sampling program consisted of taking soil samples at approximately 100 metre spacings along a couple of the claim lines. The first line was the claim line between ANG 9 & 10. These samples started at the #1 Posts



Samples
97-325 S
to
97-343 S

Samples
97-300 S
to
97-318 S



1500 ft

450 m

SCALE

ANG Claims
Soil Sample Locations

for ANG 9 & 10 and went along the claim line toward the southwest. The samples were numbered 97-300 S to 97-318 S. The second line of soil samples was taken at the same spacings and in the same direction approximately along the claim line between ANG Claims 1 & 10. These samples were numbered 97-325 S to 97-343 S (See Soil Sample Locations Map).

ASSAY VALUE TABLE

<u>Sample #</u>	<u>Au (ppb)</u>	<u>Cu (ppm)</u>	<u>Pb (ppm)</u>	<u>Zn (ppm)</u>	<u>As (ppm)</u>
9701 S	5	8	11	28	7
9702 S	19	8	25	55	59
9703 S	<5	18	22	76	41
9704 S	5	12	18	53	26
9705 S	<5	11	9	36	<5
9706 S	86	12	12	42	24
9707 S	<5	48	11	88	45
9708 S	<5	19	8	64	41
9709 S	6	34	9	96	8
9710 S	10	19	54	111	<5
9711 S	10	9	7	133	<5
9712 S	8	12	7	58	<5
9713 S	15	14	9	75	6
9714 S	73	15	10	70	9
9715 S	89	28	11	183	18
9716 S	9	12	9	86	9
9717 S	<5	14	6	43	<5
9718 S	<5	16	6	110	9
9719 S	81	10	6	39	<5
97200 S	5	71	14	121	17
97201 S	36	25	9	62	19
97202 S	25	12	6	47	9
97203 S A	<5	10	6	38	<5
97203 S B	138	25	11	74	36

ASSAY VALUE TABLE

Sample #	Au (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
97-300 S	<5	14	16	49	14
97-301 S	56	9	8	28	<5
97-302 S	75	12	6	46	13
97-303 S	16	9	7	32	<5
97-304 S	7	16	14	48	23
97-305 S	<5	11	5	32	15
97-306 S	<5	No Sample Found in bag.			
97-307 S	75	26	9	78	50
97-308 S	32	16	8	43	5
97-309 S	<5	14	8	42	9
97-310 S	31	11	8	36	<5
97-311 S	19	17	9	50	25
97-312 S	<5	8	7	36	8
97-313 S	<5	8	3	26	<5
97-314 S	<5	3	<2	21	<5
97-315 S	27	24	7	84	17
97-316 S	21	8	7	34	<5
97-317 S	10	25	15	49	36
97-318 S	16	42	7	80	51
97-325 S	25	17	10	59	<5
97-326 S	<5	No Sample Found in bag.			
97-327 S	<5	10	8	36	6
97-328 S	<5	15	15	48	10
97-329 S	<5	20	13	53	17
97-330 S	5	14	8	42	6
97-331 S	<5	10	13	37	6
97-332 S	<5	17	10	56	10
97-333 S	<5	14	7	53	15
97-334 S	21	16	10	46	8
97-335 S	<5	21	11	49	9
97-336 S	11	16	9	46	12
97-337 S	17	11	15	72	24
97-338 S	6	No Sample Found in bag.			
97-339 S	38	14	9	95	5
97-340 S	5	16	9	112	<5
97-341 S	13	12	9	52	8
97-342 S	<5	14	13	45	<5
97-343 S	14	11	8	37	<5

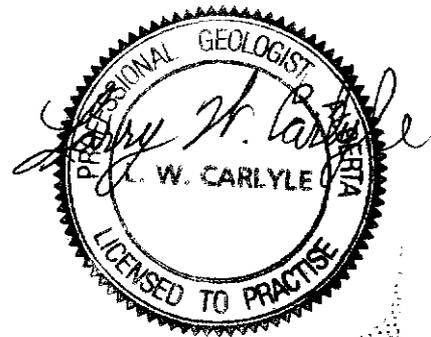
Trenching Program:

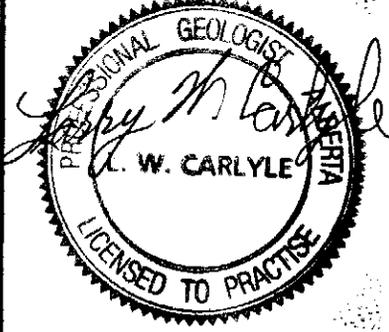
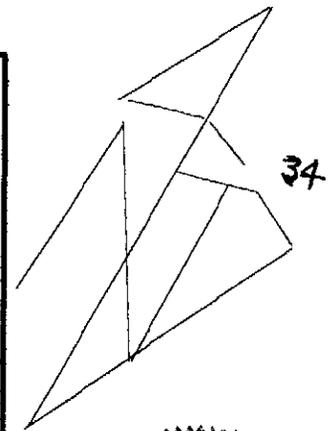
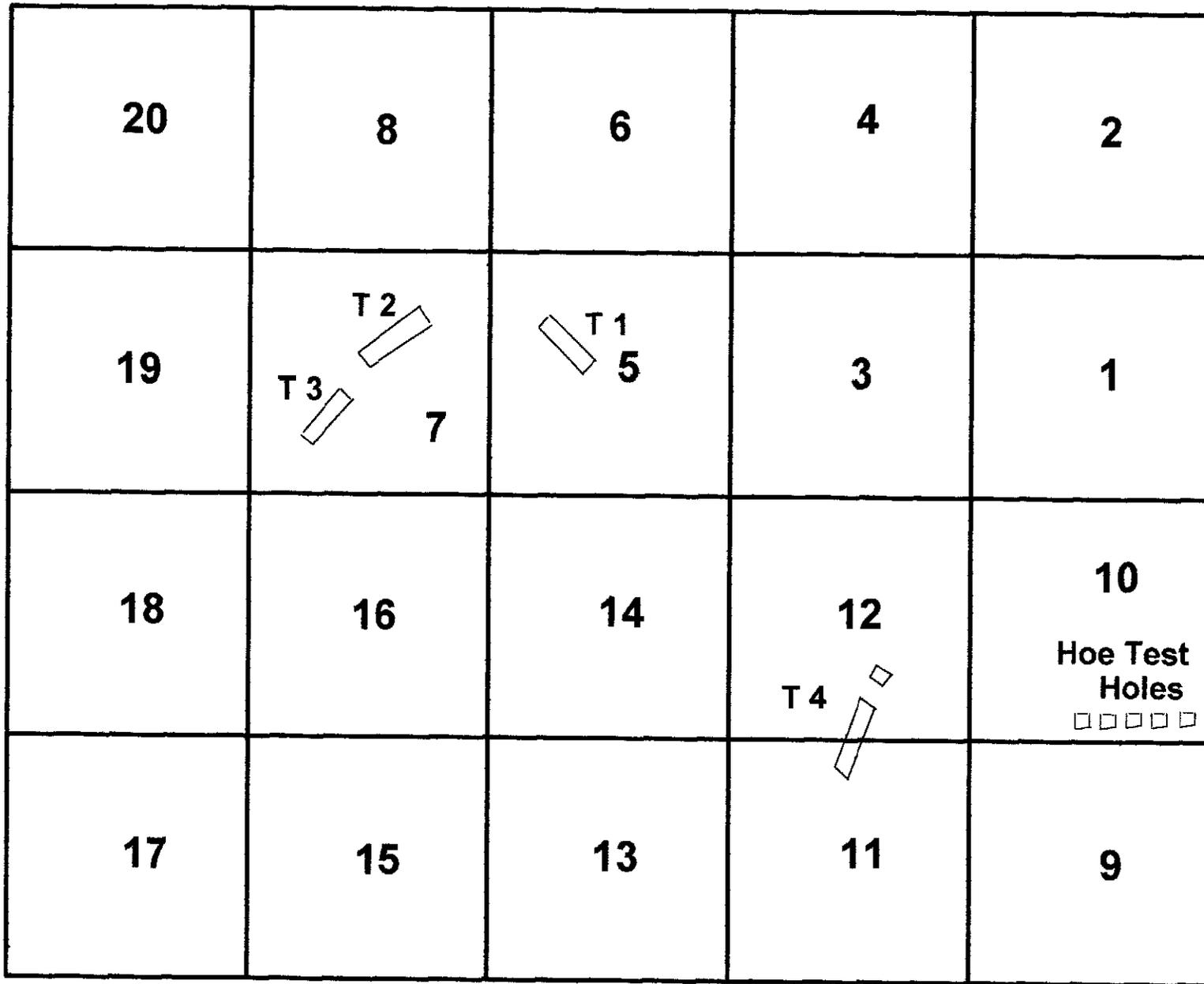
Trenches 1 to 3 were mapped and sampled by the writer. This mapping and sampling have been placed on the accompanying maps. These trenches were excavated with a backhoe having a bucket width of approximately 1.1 metres. The depth of each of these trenches was measured at 5 metre intervals down each trench to allow volume calculations.

Trench # 1

<u>Distance</u>	<u>Depth</u>	<u>Width</u>	<u>Volume (m³)</u>
0	0	1.1	0
5	1.2	1.1	6.6/2 = 3.3
10	1.7	1.1	9.3
11.2	1.0	1.1	1.3
15	0.9	1.1	3.8
20	0.9	1.1	4.9
25	1.2	1.1	6.6
30	1.7	1.1	9.3
35	1.9	1.1	10.4
40	2.1	1.1	11.5
45	1.7	1.1	9.3
50	1.9	1.1	10.4
55	1.5	1.1	8.2
60	1.5	1.1	8.2
65	1.7	1.1	9.3
70	1.5	1.1	8.2
75	1.4	1.1	7.7
80	1.6	1.1	8.8
85	1.0	1.1	5.5
90	0.6	1.1	3.3
95	1.1	1.1	6.0

$$145.3 \text{ m}^3 / 0.76 = 191.2 \text{ yd}^3$$





Hoe Test
Holes
□□□□□

1500 ft 450 m
SCALE

ANG Claims
Trench Locations

Trench # 2

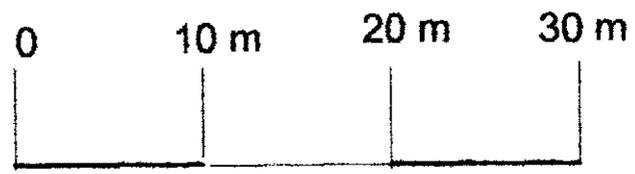
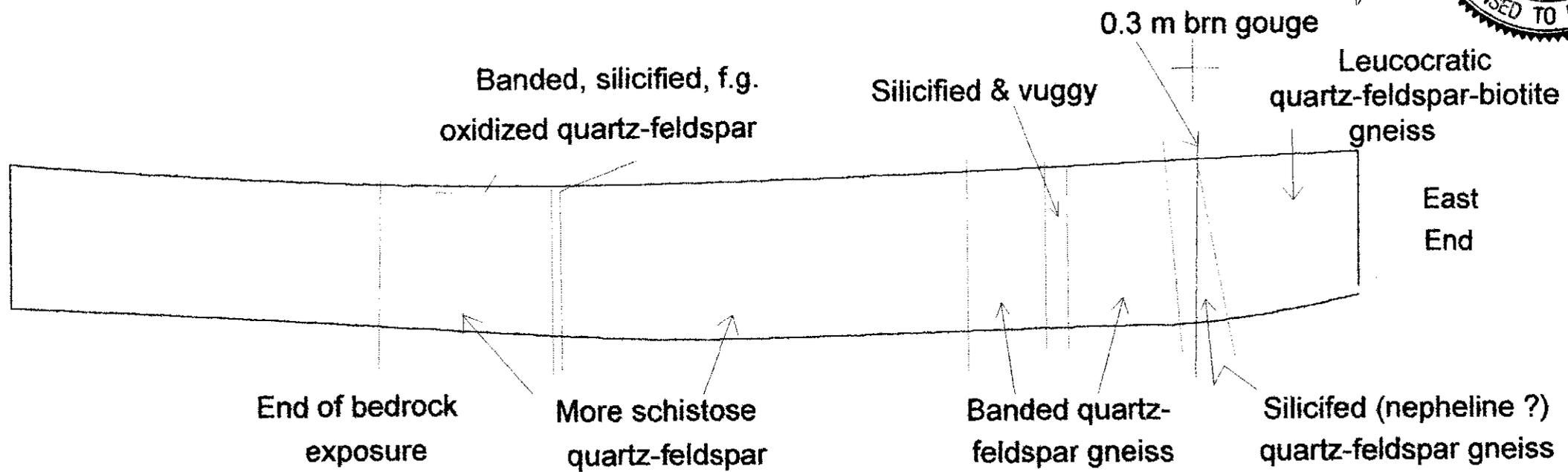
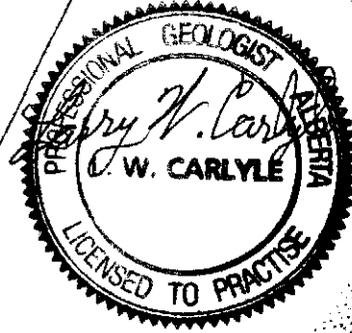
<u>Distance</u>	<u>Depth</u>	<u>Width</u>	<u>Volume (m³)</u>
0	0	1.1	0
5	2.0	1.1	11.0/2 = 5.5
10	2.0	1.1	11.0
15	1.9	1.1	10.4
20	2.3	1.1	12.6
25	2.0	1.1	11.0
30	1.8	1.1	9.9
35	1.6	1.1	8.8
40	1.5	1.1	8.2
45	1.3	1.1	7.1
50	1.8	1.1	9.9
55	2.0	1.1	11.0
60	2.3	1.1	12.6
65	2.0	1.1	11.0
70	1.9	1.1	10.4
75	1.5	1.1	8.2
80	2.0	1.1	11.0
85	1.8	1.1	9.9
90	1.6	1.1	8.8
95	1.8	1.1	9.9
97	1.3	1.1	2.9

$$190.1 \text{ m}^3 / 0.76 = 250.1 \text{ yd}^3$$

Trench # 3

<u>Distance</u>	<u>Depth</u>	<u>Width</u>	<u>Volume (m³)</u>
0	0	1.1	0
5	1.6	1.1	8.8/2 = 4.4
10	1.6	1.1	8.8
15	1.6	1.1	8.8
20	1.6	1.1	8.8
25	1.6	1.1	8.8
30	1.4	1.1	7.7
35	1.5	1.1	8.2
40	1.5	1.1	8.2
45	1.8	1.1	9.9
50	1.8	1.1	9.9
55	1.6	1.1	8.8
60	1.6	1.1	8.8
65	1.4	1.1	7.7



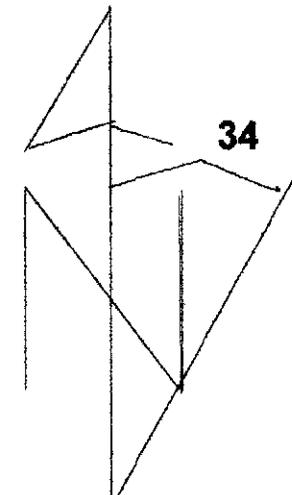


SCALE

ANG Claims

Trench # 1 (Geology along Trench Bottom)

Trench is 115 m. N95E of #1 Posts of ANG 7 & 8



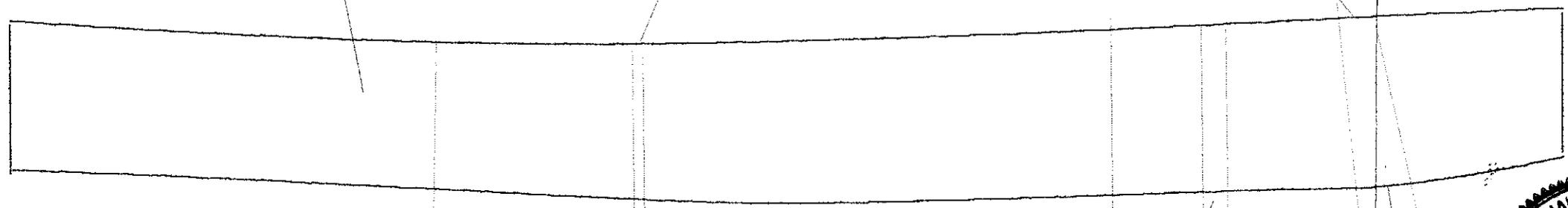
Sample Number
Au(ppb), Cu(ppm), As(ppm)
 Sample Width (m)

T1 - 6
7, 7, 31
 Grab (5 m)

T1 - 5
6, 33, 360
 0.9

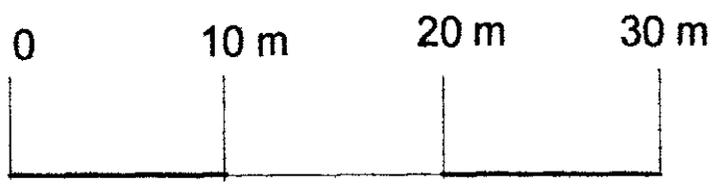
T1 - 3
<5, 17, 81
 1.5

T1 - 2
5, 15, 86
 0.3



End of bedrock exposure

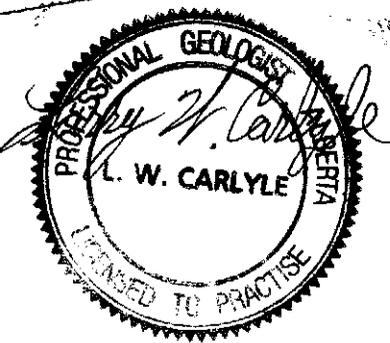
East End



SCALE

T1 - 4
47, 25, 647
 0.6

T1 - 1
<5, 10, 27
 1.2

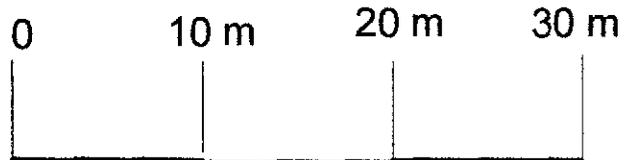
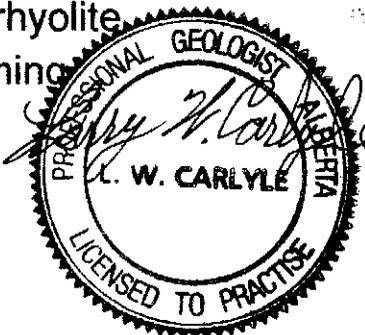
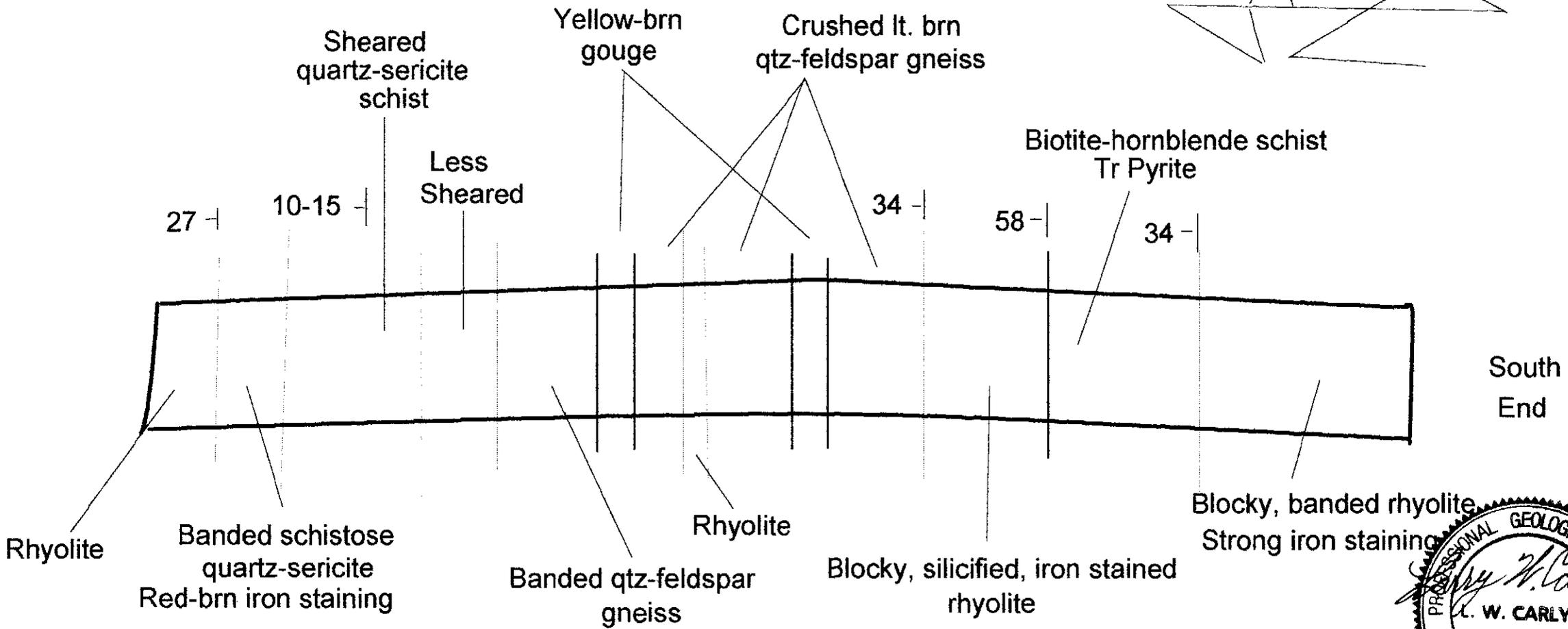
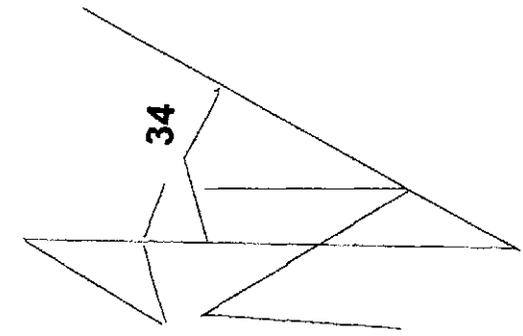


ANG Claims

Trench # 1 (Sample Assay Results)

Trench is 115 m. N95E of #1 Posts of ANG 7 & 8

Trench Strikes S5E



SCALE

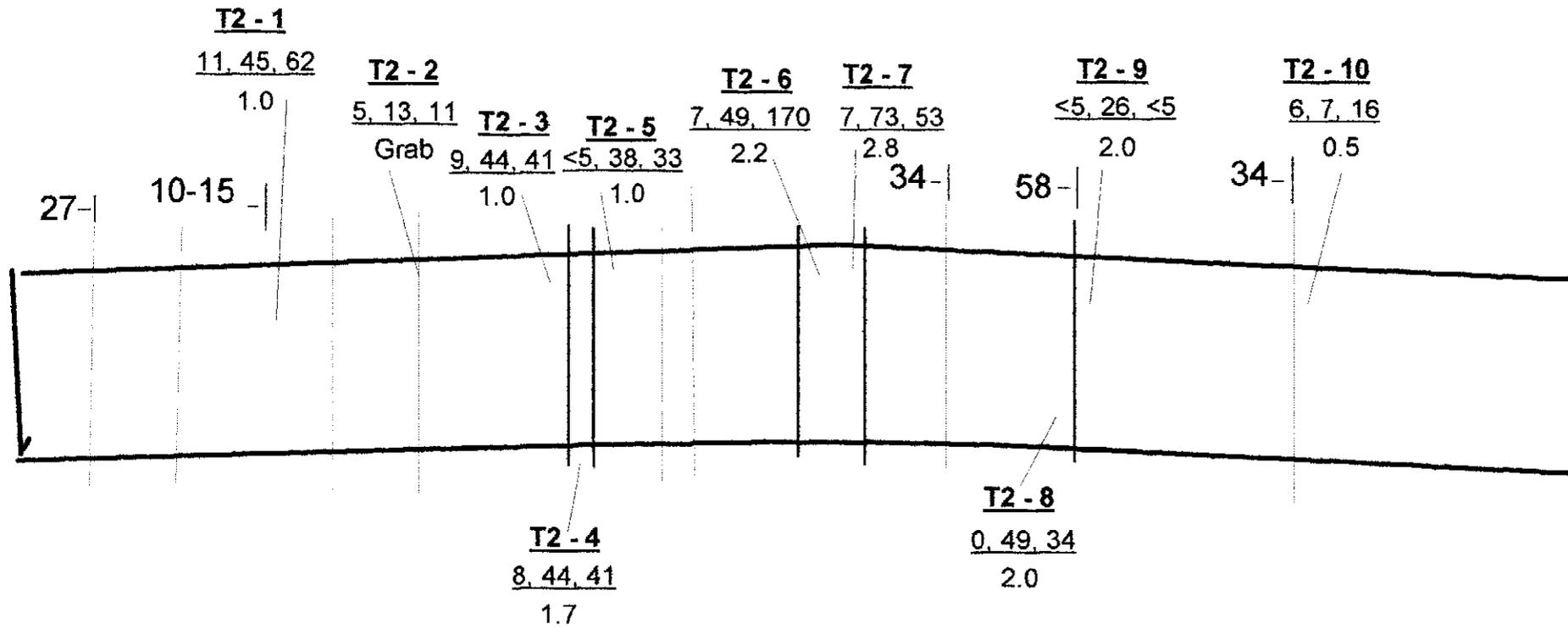
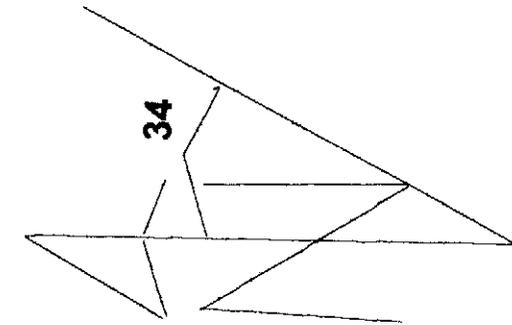
ANG Claims

Trench # 2 (Geology along Trench Bottom)

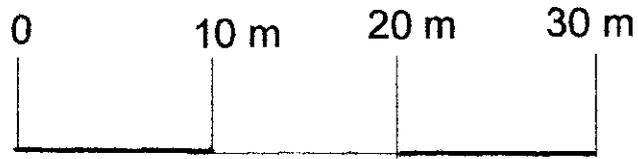
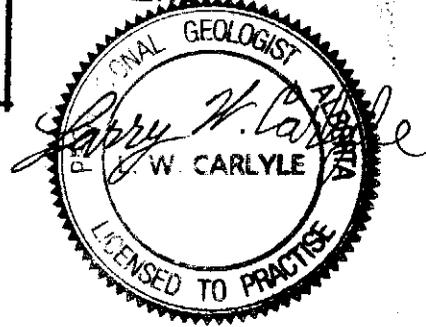
Trench is 190 m. S35W of #1 Posts of ANG 7 & 8

Trench Strikes S5E

Sample Number
Au(ppb), Cu(ppm), As(ppm)
Sample Width (m)



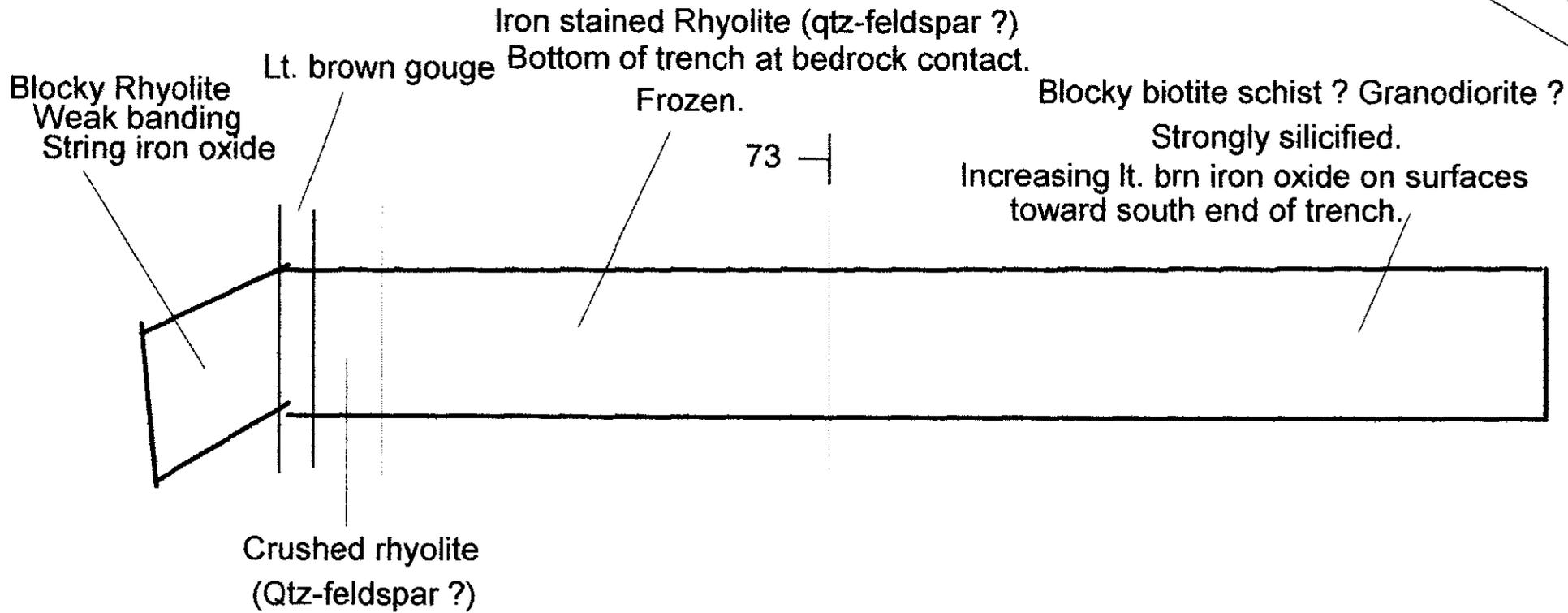
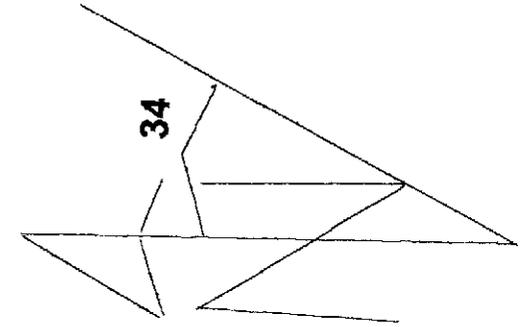
South
End



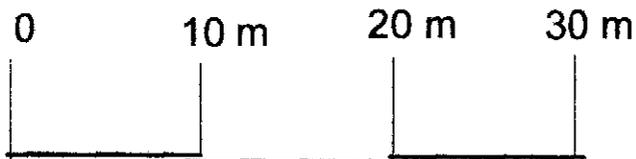
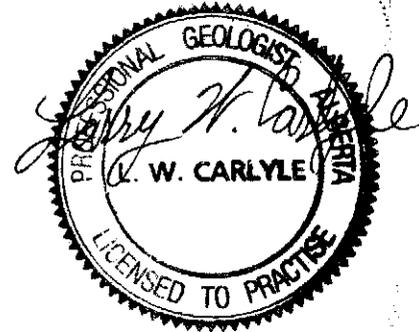
SCALE

ANG Claims
Trench # 2 (Sample Assay Results)
 Trench is 190 m. S35W of #1 Posts of ANG 7 & 8

Trench Strikes S7W



South
End



SCALE

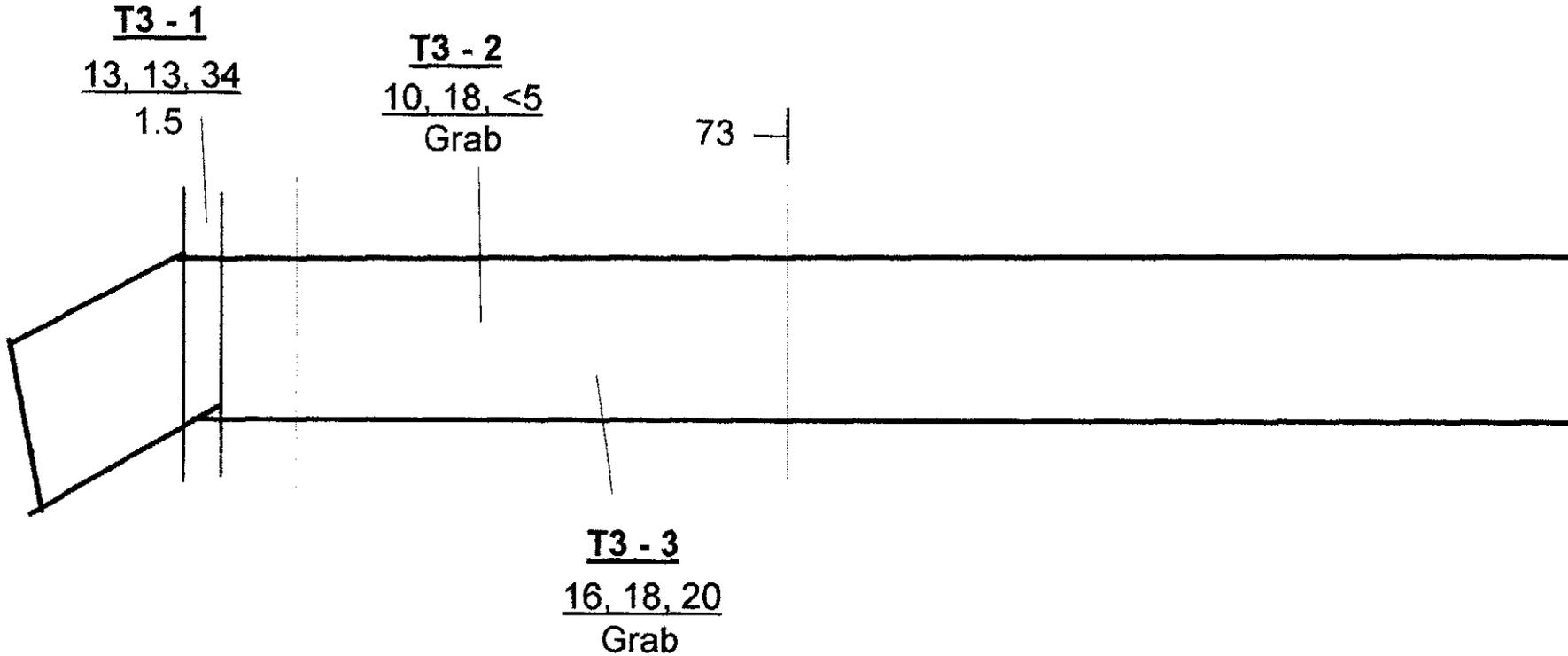
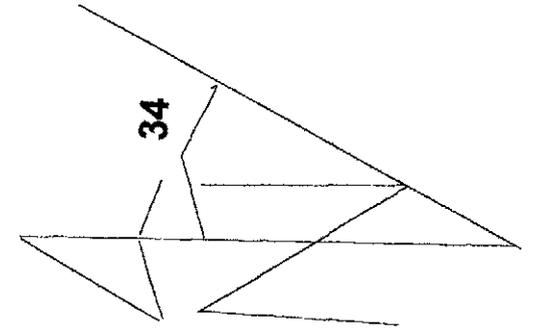
ANG Claims

Trench # 3 (Geology along Trench Bottom)

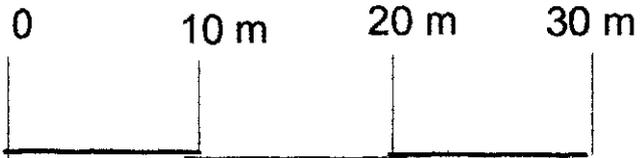
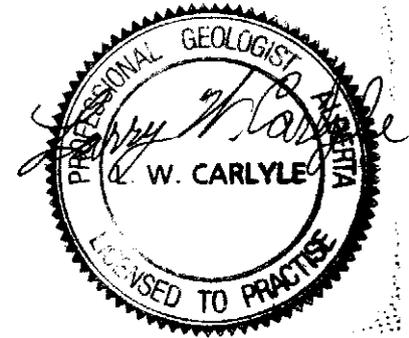
Trench is 130 m. S10W of Trench # 2

Trench Strikes S7W

Sample Number
Au(ppb), Cu(ppm), As(ppm)
Sample Width (m)



South
End



SCALE

ANG Claims

Trench # 3 (Sample Assay Results)

Trench is 130 m. S10W of Trench # 2

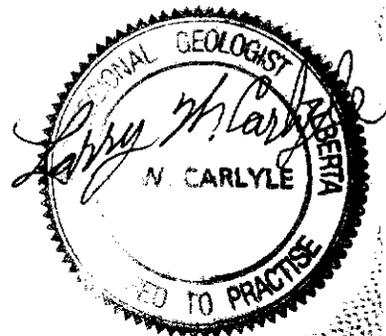
Trench # 3

<u>Distance</u>	<u>Depth</u>	<u>Width</u>	<u>Volume (m³)</u>
70	1.5	1.1	8.2
75	1.4	1.1	7.7
80	1.5	1.1	8.2
85	1.5	1.1	8.2
89	1.5	1.1	6.6
			$147.7 \text{ m}^3 / 0.76 = 194.3 \text{ yd}^3$

Trench # 4 and the Hoe Test Holes dimensions were estimated by Mr. Curley and appear to be accurate to the writer.

Trench # 4

<u>Length</u>	<u>Depth</u>	<u>Width</u>	<u>Volume (m³)</u>
18.3	1.8	1.1	$36.2 \text{ m}^3 / 0.76 = 47.6 \text{ yd}^3$

**Hoe Test Holes**

<u>Length</u>	<u>Depth</u>	<u>Width</u>	<u>Volume (m³)</u>
4.6	1.8	1.1	$9.1 \text{ m}^3 \times 5 = 45.5 \text{ m}^3 / 0.76 = 59.9 \text{ yd}^3$

CONCLUSIONS:

1. The soil sampling done on the claims returned generally low gold values; the highest being 138 ppb. from Sample 97203 S B. There appears to be a weak correlation between gold values and copper, zinc, arsenic and occasionally antimony values as would be expected from an epithermal vein deposit.
2. The samples taken from the trenches also returned low gold values; the highest being 47 ppb. from Sample T1-4. The same weak correlation with copper, zinc, arsenic, and antimony values exists. It should be noted that

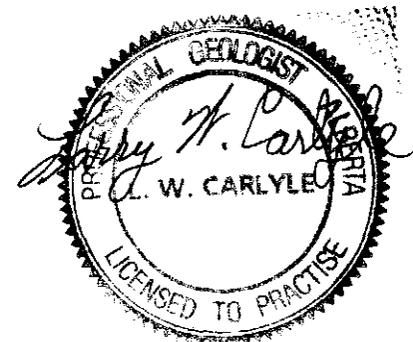
TRENCH SAMPLE DESCRIPTION TABLE

Sample Number	Distance (m)	Width (m)	Au (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Description
<u>Trench # 1</u>								
T1-1	8.6	1.2	<5	10	48	53	27	Silicified qtz-feldspar gneiss
T1-2	9.8	0.3	5	15	50	90	86	Brown gouge
T1-3	9.8	1.5	<5	17	12	69	81	Silicified qtz-feldspar gneiss
T1-4	18.5	0.6	47	25	8	66	647	Banded, silicified & vuggy qtz-feldspar + iron & manganese stain
T1-5	49.0	0.9	6	33	9	101	360	Banded, silicified, f.g. qtz-feldspar + iron & manganese stain
T1-6	67.0	Grab (5 m)	7	7	21	22	31	Rhyolite. Nepheline Syenite ?
<u>Trench # 2</u>								
T2-1	15.0	1.0	11	45	27	100	62	Crushed sericite-qtz schist. Strong iron stain. Trace manganese staining.
T2-2	25.0	Grab	5	13	4	16	11	Quartz float ? Strong iron f.f. Trace pyrite.
T2-3	32.6	1.0	9	55	7	72	52	Silicified qtz-feldspar gneiss.
T2-4	33.6	1.7	8	44	12	64	41	Yellow-brown gouge.
T2-5	35.3	1.0	<5	38	9	69	33	Crushed lt. brn. qtz-feldspar gneiss.



TRENCH SAMPLE DESCRIPTION TABLE

Sample Number	Distance (m)	Width (m)	Au (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)	Description
<u>Trench # 2</u>								
T2-6	47.8	2.2	7	49	11	115	170	Yellow to brown gouge.
T2-7	50	2.8	7	73	15	154	53	Yellow to brown gouge.
T2-8	64.5	2.0	0	49	8	92	34	Blocky silicified Rhyolite. Strong iron staining.
T2-9	66.5	2.0	<5	26	6	88	<5	Blocky biotite-hornblende schist. Trace pyrite. Some Rhyolite ?
T2-10	81.1	0.5	6	7	<2	21	16	Silicified rhyolite. Strong iron f.f. Oxidized pyrite.
<u>Trench # 3</u>								
T3-1	8.0	1.5	13	13	9	86	34	Lt. brown gouge.
T3-2	26.5	Grab	10	18	6	91	<5	Silicified Rhyolite.
T3-3	31.8	Grab	16	18	4	52	20	Silicified Rhyolite. Quartz-feldspar gneiss ?
<u>Trench # 4</u>								
T4-1		Grab	9	65	<2	35	45	
T4-2		Grab	12	43	2	37	36	

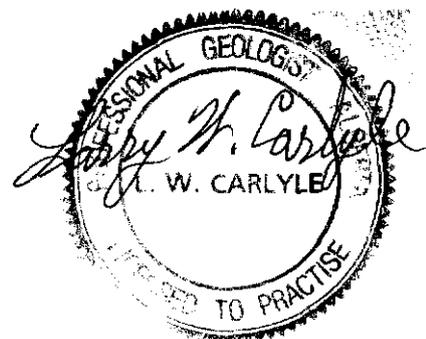


this value came from a sample of silicified, vuggy (miarolitic) banded quartz-feldspar gneiss. Because of its weak banded (lineations) this writer chose to call it a gneiss; it seems that Mr. Carlson calls this rock a quartz-feldspar porphyry.

3. Mr. Carlson believes that the quartz-feldspar porphyries, and possibly the Bow Creek Granite may represent feeders or magma reservoirs for the Carmacks Volcanics [68 Ma](Open File 1987-2, pg. 65). Both of these units have been located on the claim block. Most importantly is the existence of the porphyry dykes which are closely associated with most known gold deposits.
4. The presence of the porphyry dykes and Bow Creek Granite has further importance since these rocks are relatively brittle and would hold an open fracture. Fractures are considered important as a focus for hydrothermal fluids in this region. The proximity of the claims to the Brown-McDade and Heustis-Webber quartz-gold veins presently being mining by BYG Natural Resources Ltd. suggests that this mineral deposition model would offer the greatest chance for success during exploration of the property.

RECOMMENDATIONS:

1. Sample T1-4 which returned a 47 ppb. gold value with 647 ppm. arsenic may be the indication of a structure which, if followed both to the north and south, may widen and produce higher grade gold values.

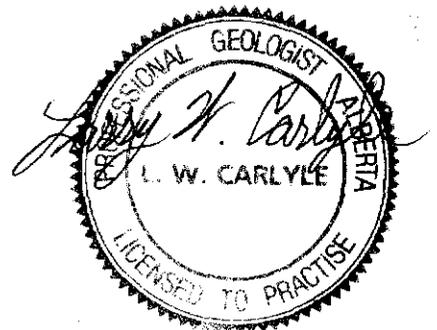


2. The soil sampling done by Mr. Curley to help direct the trenching appears to have been an appropriate technique. More lines of soil sampling and possibly some lines of ground VLF-EM located to run perpendicular to the strike of the porphyry dykes and the Bow Creek Granite (See Geology Map) may prove useful in locating mineralized quartz-gold veins. Samples 9701 S to 9719 S and 97200 S to 97203 S B seem to approximate the correct direction. Similar lines of soil sampling should be done further toward the northeast in the claim block to locate potential vein fractures in the porphyry dykes and the Bow Creek Granite.
3. Mr. Carlson (O. F. 1987-2, pg. 53) indicates that a study of aerial photographs and topographic base maps reveals numerous linears, trending mainly northeasterly and northwesterly. It is not clear whether these linears form ridges or troughs; it seems likely that troughs are most probable. Several troughs exist on the ANG Claims. Soil sampling and/or VLF-EM lines across them may demonstrate the existence of vein-faults in them.

REFERENCES:

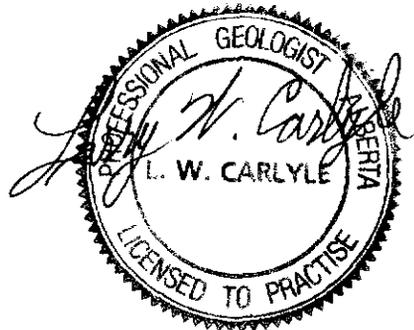
Bostock, H.S., (1956) "Carmacks District, Yukon" GSC Memoir 189

Carlson, G.G., "Geology of Mount Nansen (115 I/3) and Stoddart Creek (115 I/6) Map Areas" Open File 1987-2, Indian and Northern Affairs Canada



1997 STATEMENT OF COSTS: (See Appendix B for Invoices)

Field Assistant [R. Charlebois] (2 days @ \$100.00/day)	\$ 200.00
Field Assistant [G. Cochrane] (2 days @ \$100.00/day)	\$ 200.00
(Invoice for 4 days of work but 2 days spent on prospecting)	
Curley Wages (See Invoice)	\$ 2000.00
Carlyle Field Work (2 days @ \$300./day - includes vehicle)	\$ 600.00
Room and Board: June 17 - 19/97 (2 people @ \$60/day ea.)	\$ 360.00
Aug. 7 - 8/97 (2 people @ \$60/day ea.)	\$ 240.00
Aug. 29 - 31/97 (3 people @ \$60/day ea.)	\$ 540.00
Sept. 3 - 4/97 (2 people @ \$60/day ea.)	\$ 240.00
Excavator Rental (See Invoice)	\$ 2311.20
Representation Work (Trench Volumes @ \$1.00/yd ³)	\$ 743.10
Assaying (See Invoices)	\$ 1909.69
Assaying not from this project (5 samples)	- \$ 105.00
Vehicle Mileage (See Invoice)	\$ 686.00
ATV Rental (See Invoice)	\$ 3140.00
Ken Galambos Invoice	\$ 95.85
Report Writing (6 days @ \$100./day - includes office supplies)	\$ 600.00
Field Supplies	\$ 76.90
Total	\$13837.74

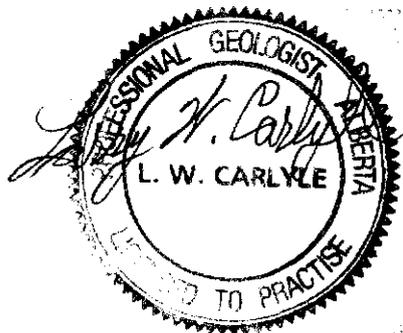


STATEMENT OF QUALIFICATIONS

I, LARRY W. CARLYLE, do certify:

1. That I am a professional geologist; resident at 74 Tamarack Drive, Whitehorse, Yukon Y1A 4Y6.
2. That I hold a B. Sc. Degree in geology from the University of British Columbia (1970).
3. That I am a Fellow of the Geological Association of Canada (F - 4355).
4. That I am a Registered Professional Geologist in the Association of Professional Engineers, Geologists, and Geophysicists of the Province of Alberta (41097).
5. That I have practiced my profession as a mine and exploration geologist for twenty years.
6. The conclusions and recommendations in the attached report are based on work I performed on the property, and on a review of the references cited.

DATED at Whitehorse, Yukon, this 17th day of October, 1997.



APPENDIX A

ANALYTICAL CERTIFICATES

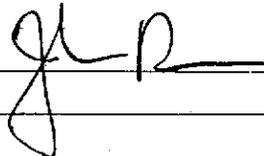
09/07/97

Assay Certificate

Page 1

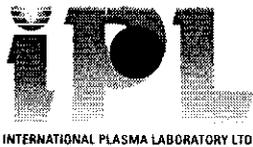
Eugene Curley

WO#07824

Certified by 

Sample #	Au ppb
9701 S	5
9702 S	19
9703 S	<5
9704 S	5
9705 S	<5
9706 S	86
9707 S	<5
9708 S	<5
9709 S	6
9710 S	10
9711 S	10
9712 S	8
9713 S	15
9714 S	73
9615 S	89
9616 S	9
9717 S	<5
9718 S	<5
9719 S	81
97200 S	5
97201 S	36
97202 S	25
97203 S A	<5
97203 S B	138





INTERNATIONAL PLASMA LABORATORY LTD.

CERTIFICATE OF ANALYSIS
iPL 97G0559

2036 Columbia St
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Northern Analytical Laboratories

24 Samples

Out: Jul 07, 1997 In: Jul 02, 1997

[055916:42:28:79070797]

Project : W/O 7824
Shipper : Norm Smith
Shipment: PO#: 332320
Analysis:
ICP(AqR)30

Comment:

Document Distribution

1 Northern Analytical Laboratories	EN	RT	CC	IN	FX
105 Copper Road	1	2	2	2	1
Whitehorse	DL	3D	EM	BT	BL
YT Y1A 2Z7	0	0	0	0	0
Canada					
Att: Norm Smith	Ph: 403/668-4968				
	Fx: 403/668-4890				
	Em: NAL@hypertech.yk.ca				

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION		PULP	REJECT
8311	24	Pulp	Received as it is, no sample prep.		12M/DIs	00M/DIs
NS=No Sample Rep=Replicate M=Month Dis=Discard						
Analytical Summary						
##	Code	Method	Units	Description	Element	Limit Low High
01	0721	ICP	ppm	Ag ICP	Silver	0.1 99.9
02	0711	ICP	ppm	Cu ICP	Copper	1 20000
03	0714	ICP	ppm	Pb ICP	Lead	2 20000
04	0730	ICP	ppm	Zn ICP	Zinc	1 20000
05	0703	ICP	ppm	As ICP	Arsenic	5 9999
06	0702	ICP	ppm	Sb ICP	Antimony	5 999
07	0732	ICP	ppm	Hg ICP	Mercury	3 9999
08	0717	ICP	ppm	Mo ICP	Molybdenum	1 999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10 999
10	0705	ICP	ppm	Bi ICP	Bismuth	2 9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1 99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1 9999
13	0718	ICP	ppm	Ni ICP	Nickel	1 9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2 9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5 999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1 9999
17	0729	ICP	ppm	V ICP	Vanadium	2 9999
18	0716	ICP	ppm	Mn ICP	Manganese	1 9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2 9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1 9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1 9999
22	0736	ICP	ppm	Sc ICP	Scandium	1 9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01 1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01 9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01 9.99
26	0712	ICP	%	Fe ICP	Iron	0.01 9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01 9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01 9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01 5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01 5.00

EN=Envelope # Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Total# 2=Copy 2=Invoice 0=3 1/2 Disk

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* Our liability is limited solely to the analytical cost of these analyses.

BC Certified Assayer: David Chiu



CERTIFICATE OF ANALYSIS

iPL 97G0559

2036 Columbia Street
 Vancouver, B.C.
 Canada V5Y 3E1
 Phone (604) 879-7878
 Fax (604) 879-7898

Client : Northern Analytical Laboratories
 Project: W/O 7824

24 Samples
 24=Pulp

[055916:42:28:79070797]

Out: Jul 07, 1997
 In : Jul 02, 1997

Page 1 of 1
 Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	B1 ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	
9701S	P	<	8	11	28	7	<	<	2	<	<	0.3	6	13	91	<	23	67	152	10	12	1	2	0.05	1.04	0.16	2.50	0.27	0.03	0.03	0.02
9702S	P	0.1	8	25	55	59	<	<	2	<	<	0.5	4	12	93	<	17	52	119	10	13	3	2	0.03	0.99	0.11	2.35	0.21	0.03	0.02	0.01
9703S	P	<	18	22	76	41	5	<	2	<	<	0.4	7	28	125	<	34	58	165	10	10	1	3	0.03	1.09	0.11	2.73	0.33	0.05	0.02	0.02
9704S	P	<	12	18	53	26	<	<	3	<	<	0.3	7	19	137	<	29	68	164	12	13	1	3	0.05	1.24	0.13	2.71	0.30	0.05	0.02	0.02
9705S	P	<	11	9	36	<	<	<	2	<	<	<	8	15	100	<	29	97	168	12	13	1	2	0.06	1.30	0.19	3.45	0.29	0.04	0.02	0.03
9706S	P	<	12	12	42	24	<	<	2	<	<	<	8	17	132	<	28	87	168	12	12	3	2	0.06	1.39	0.18	3.16	0.30	0.06	0.02	0.04
9707S	P	<	48	11	88	45	11	<	3	<	<	<	14	55	289	<	48	80	344	17	15	1	7	0.05	1.42	0.20	4.36	0.55	0.11	0.02	0.04
9708S	P	<	19	8	64	41	5	<	1	<	<	0.3	6	21	163	<	25	62	145	12	12	1	3	0.04	0.90	0.15	2.70	0.30	0.05	0.02	0.03
9709S	P	<	34	9	96	8	7	<	3	<	<	<	17	20	478	<	42	116	440	10	16	2	10	0.13	1.76	0.23	4.49	0.95	0.29	0.02	0.03
9710S	P	<	19	54	111	<	<	<	4	<	<	<	20	19	498	<	29	139	836	14	17	2	13	0.27	2.24	0.40	5.37	1.27	0.97	0.02	0.10
9711S	P	<	9	7	133	<	<	<	3	<	<	<	24	26	447	<	52	144	771	11	17	3	16	0.30	2.19	0.27	5.16	1.81	0.95	0.03	0.06
9712S	P	<	12	7	58	<	<	<	2	<	<	<	10	14	240	<	24	84	379	10	14	1	5	0.12	1.36	0.20	3.13	0.61	0.20	0.02	0.04
9713S	P	<	14	9	75	6	<	<	3	<	<	<	12	21	337	<	34	99	381	12	17	2	7	0.13	1.73	0.21	3.85	0.76	0.18	0.02	0.02
9714S	P	<	15	10	70	9	<	<	3	<	<	<	14	15	274	<	31	94	493	12	20	2	8	0.16	2.17	0.30	3.73	0.97	0.24	0.03	0.04
9615S	P	<	28	11	183	18	<	<	3	<	<	<	16	20	395	<	35	117	533	16	18	3	12	0.18	2.70	0.24	4.48	1.00	0.32	0.03	0.04
9616S	P	<	12	9	86	9	<	<	2	<	<	<	9	13	204	<	25	57	393	14	16	1	6	0.06	1.14	0.21	3.14	0.40	0.14	0.02	0.05
9717S	P	<	14	6	43	<	<	<	2	<	<	0.4	12	9	190	<	19	59	318	7	11	2	5	0.07	1.01	0.18	2.90	0.47	0.18	0.02	0.04
9718S	P	<	16	6	110	9	<	<	3	<	<	<	30	17	496	<	44	122	899	8	18	3	15	0.24	3.25	0.28	5.06	2.26	0.72	0.03	0.05
9719S	P	<	10	6	39	<	<	<	2	<	<	<	11	13	148	<	29	89	228	8	13	2	3	0.09	1.35	0.23	3.28	0.59	0.11	0.02	0.05
97200S	P	<	71	14	121	17	<	<	5	<	<	<	19	79	296	<	108	134	471	18	15	2	10	0.09	2.79	0.14	6.29	1.49	0.23	0.02	0.04
97201S	P	<	25	9	62	19	<	<	3	<	<	<	11	28	223	<	42	93	281	14	18	2	4	0.10	1.78	0.25	3.58	0.67	0.14	0.03	0.04
97202S	P	<	12	6	47	9	<	<	2	<	<	0.4	8	12	156	<	21	68	440	10	13	1	2	0.07	0.78	0.15	2.44	0.28	0.08	0.02	0.02
97203S A	P	<	10	6	38	<	<	<	2	<	<	0.3	6	7	280	<	18	69	446	9	15	1	2	0.07	0.91	0.18	2.30	0.24	0.05	0.03	0.02
97203S B	P	<	25	11	74	36	<	<	3	<	<	<	10	22	245	<	29	87	272	12	17	2	4	0.07	1.93	0.22	3.51	0.44	0.12	0.03	0.03

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
 Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 5.00 5.00
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14/08/97

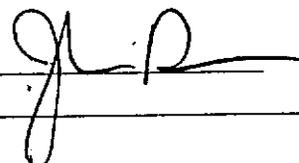
Assay Certificate

Page 1

Eugene Curley

WO# 07880

Certified by



Sample #	Au ppb
97 - 300 - S	<5
97 - 301 - S	56
97 - 302 - S	75
97 - 303 - S	16
97 - 304 - S	7
97 - 305 - S	<5
97 - 306 - S	<5
97 - 307 - S	75
97 - 308 - S	32
97 - 309 - S	<5
97 - 310 - S	31
97 - 311 - S	19
97 - 312 - S	<5
97 - 313 - S	<5
97 - 314 - S	<5
97 - 315 - S	27
97 - 316 - S	21
97 - 317 - S	10
97 - 318 - S	16
97 - 325 - S	25
97 - 326 - S	<5
97 - 327 - S	<5
97 - 328 - S	<5
97 - 329 - S	<5
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97 - 331 - S	<5
97 - 332 - S	<5
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97 - 334 - S	21
97 - 335 - S	<5



14/08/97

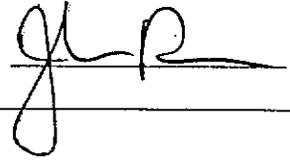
Assay Certificate

Page 2

Eugene Curley

WO# 07880

Certified by



Sample #	Au ppb
97 - 336 - S	11
97 - 337 - S	17
97 - 338 - S	6
97 - 339 - S	38
97 - 340 - S	5
97 - 341 - S	13
97 - 342 - S	<5
97 - 343 - S	14

Note: Au is 30gm FA/AAS.



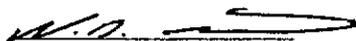
17/09/97

Assay Certificate

Page 1

Eugene Curly

WO#07911

Certified by 

Sample #	Au ppb
G9701-R	45
G9702-R	100
G9703-R	8
MINC-1	10
T1-1	<5
T1-2	5
T1-3	<5
T1-4	47
T1-5	6
T1-6	7
T2-1	11
T2-2	5
T2-3	9
T2-4	8
T2-5	<5
T2-6	7
T2-7	7
T2-8	0
T2-9	<5
T2-10	6
T3-1	13
T3-2	10
T3-3	16
T4-1	9
T4-2	12
WOLF-1	13



APPENDIX B

**INVOICES SUPPORTING
STATEMENT OF COSTS**

Invoice for Analytical Services

To:

Eugene Curley

Invoice Date: 09/07/97

WO# 07824

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
24	Sample Preparation: Soil/Sediment Sample Preparation	2.00	48.00
24	Analyses: Au + 30	16.00	384.00
25	Supplies: Soil Sample Bags	0.28	7.00
25	12 x 20 Poly Sample Bags	0.25	6.25
50	8 x 13 Poly Sample Bags	0.20	10.00

Subtotal 455.25

GST @7% (R 121285662) 31.87

Total due on receipt of invoice **\$487.12**

2% per month charged on overdue accounts

PAID *[Signature]*



Invoice for Analytical Services

To:

Eugene Curley

Invoice Date: 14/08/97

WO# 07880

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
38	Sample Preparation: Soil/Sediment Sample Preparation	2.00	76.00
38	Analyses: Au + 30 (30 gm Au)	17.25	655.50
Subtotal			731.50
GST @7% (R 121285662)			51.21
Total due on receipt of invoice			\$782.71

2% per month charged on overdue accounts





SAMPLE DISCREPANCY

REPORT #: 47H0792 PROJECT #: P.O. 332328
DATE IN : 97/08/18 SAMPLE TYPE : Pulp
iPL PREP. REP. : _____

The following samples were missing, but had been included on the submittal:

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

The following samples were included, but ~~were not~~ ^{was found} ~~on~~ ^{inside sample ba} the submittal:

- 1) 97-306-S
- 2) 97-326-S
- 3) 97-338-S

- (il. 1.07, 1.22 & 1.34)

Total: 3

G. COCHRANE
 S15-299
 WHITEHORSE

OUR NUMBER	387160
DATE	
CUSTOMER'S ORDER	
SALESMAN	
TERMS	
F.O.B.	

TAX REG. NO. _____
 SOLD TO EUGENE CURLEY

 SHIP TO _____
 ADDRESS _____ VIA _____

INVOICE

QUANTITY	DESCRIPTION	PRICE	AMOUNT
	4 DAYS WORK AS FIELD ASSISTANT		400 ⁰⁰
	PAID IN FULL CASH		
	2 days on Prospector's Program		400 ⁰⁰

BLUELINE DC 32

 BLUELINE

DATE October 12 1997

RECEIVED FROM / REÇU DE Eugene Curley

twelve hundred ~~_____~~ ^{XX} DOLLARS

FOR / POUR 2 days field work & 6 days report writing

FROM / DE _____ TO / À _____

\$1200.00 BY / PAR Larry M. Carlyle

Received from Eugene Curley 1997

two hundred dollars ^{XX} 100 Dollars

for 2 day field work

\$ _____ No. R Charlebois

Tax Reg. No: _____

I-CAN-DIG-IT INVOICE

CONTRACTING & EXPLORATION LTD.
 RR 1 SITE 20 COMP 79
 WHITEHORSE, Y.T. Y1A 4Z6

OUR NUMBER	120011
DATE	Aug 30/97
CUSTOMER'S ORDER	

SOLD TO	EUGENE CURLY
ADDRESS	MT NANSEN

SHIP TO	
ADDRESS	

TAX REG. NO.	SALESMAN	F.O.B.	TERMS	VIA
--------------	----------	--------	-------	-----

QUANTITY	DESCRIPTION	PRICE	AMOUNT
18	hrs EXCAVATING TIME TRENCHING	120 ⁰⁰	2160 ⁰⁰
	G.S.T.		151 ²⁰
	BALANCE DUE		\$2311 ²⁰
	Paid CASH		
	Phil Vanhof		

Invoice for Analytical Services

To:

Eugene Curly

Invoice Date: 17/09/97

WO# 07911

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
25	Sample Preparation: Rock/D.C. Sample Preparation	5.00	125.00
22	Sample Drying	2.50	55.00
1	Soil/Sediment Sample Preparation	2.00	2.00
26	Analyses: Au + 30	16.00	416.00

Subtotal 598.00

GST @7% (R 121285662) 41.86

Total due on receipt of invoice **\$639.86**

2% per month charged on overdue accounts



EUGENE CURLEY FIELD WORK INVOICE

Curley Wages:

June 17 - 19/97

3 days @ \$200.00/day \$ 600.00

August 7 - 8/97

2 days @ \$200.00/day \$ 400.00

August 29 - 31/97

3 days @ \$200.00/day \$ 600.00

September 3 - 4/97

2 days @ \$200.00/day \$ 400.00

Total: \$2000.00

Vehicle Mileage (Whitehorse - ANG Claims):

June 17 & 19/97

490 km. @ \$0.35/km \$ 171.50

August 7 & 9/97

490 km. @ \$0.35/km \$ 171.50

August 28 & 31/97

490 km. @ \$0.35/km \$ 171.50

September 2 & 5/97

490 km. @ \$0.35/km \$ 171.50

Total: \$ 686.00

ATV Rental:

2 Suzuki ATV's @ \$150.00/day each

10 days @ \$300.00/day \$ 3000.00

Oil & Gas

10 days @ 40 km/day @ \$0.35/km \$ 140.00

Total: \$ 3140.00

FIELD SUPPLY INVOICE

Flagging (10 @ \$2.40 ea.)	\$ 24.00
Hipchain Twine (7 @ \$4.20 ea.)	\$ 29.40
Felt Marking Pens (3 @ \$1.00 ea.)	\$ 3.00
Plastic Sample Bags (21 @ \$0.25 ea.)	\$ 5.25
Soil Sample Bags (61 @ \$0.25 ea.)	<u>\$ 15.25</u>
Total:	\$ 76.90

Kenneth D. Galambos
P.O. Box 5625
Whitehorse Yukon
Y1A 5H4
Telephone: (403) 633 - 6729

February 27, 1997

Invoice Number: 97-02

Eugene Curley
P.O. Box 47
Faro, Yukon
Y0B 1K0

To invoice you for the work completed in conjunction with the 1997 Yukon
Mining Incentives Target Evaluation Program.

two hours at \$45.00 / hour	\$90.00
miscellaneous office supplies	2.00
claim maps	1.07
photocopying	<u>2.78</u>
	\$95.85