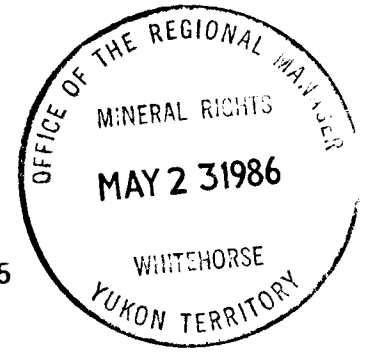


GEOCHEMICAL ASSESSMENT REPORT



DURING PERIOD AUGUST 29 - SEPTEMBER 15, 1985

ON

CLAIMS TOWER 1-26,  
NOS. YA 84678 TO 84703

**091835**

NORTH LATITUDE 64°04'  
WEST LONGITUDE 139°19'

CLAIM SHEET 116-B-3

DAWSON CITY AREA  
YUKON TERRITORY

BY

MANNY CONSULTANTS LTD. *Geological and Geochemical Engineering*  
E. Amendolagine, P.Eng. *Whitehorse, Yukon Territory*

23 JANUARY 1986

**091835**

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 \$ 2600.00.

*D. D. Emmond*

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

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### APPENDICES

APPENDIX I      Assay Certificate

APPENDIX II     Plotted Assays

### SURVEY PLANS

Geochemical Survey - Au

Geochemical Survey - Ag

Geochemical Survey - As

Geochemical Survey - Cu

Geochemical Survey - Zn

Geochemical Survey - Pb

## INTRODUCTION

The purpose of this geochemical soil sampling survey is to examine a cross section of the Tower claim group for indications of Au, Ag, As, Cu, Pb, and Zn.

The survey was carried out on three parallel lines striking N50°E. The center line is the base line. Samples were taken at 50 meter intervals along the line. Corresponding samples taken 50 meters to the northwest and southeast of the baseline were taken to establish a systematic northeasterly grid across the claim group.

There were 75 samples taken during the survey, but assay results were obtained for only 72 samples.

**SUMMARY**

The soil geochemical survey was conducted during the period August 29, 1985 to September 15, 1985 on the Tower claim group in the Dawson Mining Division of the Yukon Territory. The purpose of the survey was to examine the mineral possibilities across the Tower group of claims.

The survey consisted of 75 samples taken at 50 meter intervals along three parallel lines. The soil survey geochemical results are weak and spotty and not conclusive.

It is recommended that in order to examine the mineral potential of the claims, that a systematic geochemical, geophysical and geological mapping program would have to be conducted on the claims.

**PROPERTY**

The claims are:

Tower 1 to 26 inclusive

- numbered YA 84678 to YA 84703 inclusive
- recorded owner, Mike Wood, anniversary date  
12 October 1985

- all shown on Claim Sheet 116-B-3, Dawson Mining Division,  
Yukon Territory.

**LOCATION**

The claims are located between Wood Gulch and Thomson Gulch, some 4 km east of Dawson City, Yukon Territory, 139°19' West Longitude and 64°04' North Latitude.

**ACCESS**

The property is accessible from Dawson City easterly by some 4 km on the fire Tower Road. The road passes through the claim group.

**WORK PROGRAM**

The survey was conducted during the period August 29 to September 15, 1985 by Manny Consultants Ltd. with the assistance of Jamie Amendolagine.

The grid was established along the claim line. The base line was put in by chain and compass.

Sample stations were marked at 50 meter intervals along the base line and along a line 50 meters to the north and south of the base line. This is shown on the survey plans.

There were 75 samples taken at 50 meter intervals, establishing a grid pattern. Only 72 assays were received from the lab. These are all plotted and shown on the assay plans for Au, Ag, As, Cu, Pb and Zn.

## SOIL GEOCHEMISTRY SURVEY

Soil sampling was performed on an established grid at 50 meter intervals. The samples were taken with a mattock in the "B" horizon where possible. They were placed in bags and marked for grid location.

The samples for Au, As, Ag, Cu, Pb and Zn were assayed by Acme Analytical Laboratories in Vancouver, B.C. The assay certificates are recorded in Appendix I. The assays are plotted on the plans and enclosed in Appendix II. The statistical analysis follows.

The following is the laboratory methodology:

ACME ANALYTICAL LABORATORIES LTD  
Assaying & Trace Analysis  
632 E. Hastings St., Vancouver, B.C. V6A 1R6  
Telephone: 253-3168

### GEOCHEMICAL LABORATORY METHODOLOGY - 1982

#### Sample Preparation

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

#### Geochemical Analysis (AA and ICP)

0.5 gram samples are digested in hot dilute aqua regia in a boiling water bath and diluted to 10 ml with demineralized water. Extracted metals are determined by :

##### A. Atomic Absorption (AA)

Ag<sup>+</sup>, Bi<sup>+</sup>, Cd<sup>+</sup>, Co, Cu, Fe, Ga, In, Mn, Mo, Ni, Pb, Sb<sup>+</sup>, Tl, V, Zn  
( \* denotes with background correction.)

##### B. Inductively Coupled Argon Plasma (ICP)

Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cu, Cr, Fe, K, La, Mg,  
Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Tl, U, V, W, Zn.

#### Geochemical Analysis for Au

10.0 gram samples that have been ignited overnight at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb graphite AA.)

#### Geochemical Analysis for Au, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire Assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pd, Pt and Rh are determined in the solution by Atomic Absorption.

#### Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml. As is determined in the solution by Graphite Furnace Atomic Absorption (AA) or by Inductively Coupled Argon Plasma (ICP).



## STATISTICAL ANALYSIS

The statistical analysis encompasses 72 soil sample assay results. The following are the statistical analysis of the 72 samples.

The assay results reported by Acme Laboratory are included in Appendix I with plotted assay result plans in Appendix II.

Element	Assay Range		No. of Samples
Gold - PPb	B.G.	1-5	63
	Threshold	6-11	9
Arsenic - PPM	B.G.	1-9	59
	Threshold	10-21	13
Silver - PPM	B.G.	.1-.14	64
	Threshold	.5	1
	Anomalous	.6-.11	7
Lead - PPM	B.G.	0-19	54
	Threshold	20-24	9
	Anomalous	25-39	9
Zinc - PPM	B.G.	16-99	70
	Threshold	100-112	2
Copper - PPM	B.C.	15-39	61
	Threshold	40-49	7
	Anomalous	50-66	4

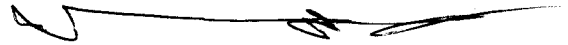
**CONCLUSIONS AND RECOMMENDATIONS**

The soil geochemical survey revealed weak intensity anomalies.

There is no definite area of intense soil geochemical response. The higher intensity assays are scattered. In order to explore the property, a systematic geochemical, geophysical and geological survey would be necessary.

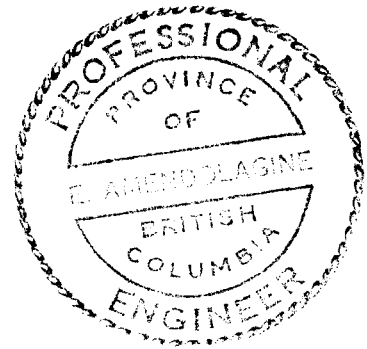
The correlated information of all the surveys would be instrumental in determining the validity of the property.

Respectfully submitted,



E. Amendolagine, P.Eng.

Dated: 23 January 1986



**COST BREAKDOWN**

Line grid flagging claim and compass stations  
and soil sampling

- Jamie Amendolagine August 29-september 15, 1985 5 days @ \$150/day	\$ 750.00
- Emanuel Amendolagine August 29 - september 15, 1985 2 days @ \$400/day	800.00
Assays	619.20
Room and Board, 7 M/D @ \$100/day	700.00
Air Transportation - Vancouver-return	916.00
4 x 4 - Car Trans., mileage & gas	425.00
Supplies & Com.	316.00
Report & Consulting	750.00
	<hr/>
Assessment Expenses:	\$ 5,278.40 =====

**Credit to Claims:**


Tower 1-10 inclusive	\$ 2,150.00
Tower 11- 26 incl.	\$ 2,150.00

## CERTIFICATE

I, Emmanuel Amendolagine, of the City of Vancouver, in the Province of British Columbia, hereby certify:

1. That I am a geologist and reside in Vancouver, British Columbia.
2. That I am a graduate of Hunter College of the City of New York, and Columbia University with a B.A. and M.A., respectively, and that I have been practising my profession as a geologist for 33 years.
3. That I am a registered Professional Engineer in the Province of British Columbia.
4. That this report is in reference to the soil geochemical survey completed from 29 August to September 15, 1985 on the Tower 1 to 26 claims in the Dawson City Mining Division, Yukon Territory.
5. That the writer does not have, nor does he expect to receive, either directly or indirectly, any interest.

DATED at Vancouver, British Columbia this 23rd day of January 1986.



E. Amendolagine, P.Eng.



APPENDIX I

ASSAY CERTIFICATE

ACME ANALYTICAL LABORATORIES LTD.

ME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: Oct 10 1985

DATE REPORT MAILED: Oct. 16/85

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MK, FE, CR, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 1 PPM.  
 - SAMPLE TYPE: Soils -80mesh AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *V. Saundry* DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

MANNY CONSULTANTS	PROJECT - D.C.L.T. FILE # 85-0748						PAGE 1
SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB	
25N	15	13	50	.1	8	4	
24N	15	5	48	.2	4	1	
23N	22	10	66	.3	7	1	
22N	30	5	68	.4	4	1	
21N	17	8	64	.3	9	2	
20N	39	26	90	.4	10	2	
19N	31	17	76	.1	7	3	
18N	26	7	66	.4	8	1	
17N	44	27	84	.7	8	1	
16N	21	11	60	.4	8	1	
15N	43	18	77	.2	7	1	
14N	22	12	69	.2	9	3	
13N	25	12	67	.3	7	2	
12N	37	15	70	.3	6	1	
11N	16	12	55	.1	2	1	
10N	57	28	79	.7	10	1	
9N	30	16	69	.2	5	1	
8N	22	14	72	.2	5	1	
6N	17	5	47	.2	5	5	
5N	18	10	50	.1	8	1	
4N	26	10	60	.2	6	2	
3N	17	8	53	.1	6	1	
2N	17	9	43	.1	4	1	
1N	16	7	59	.1	5	1	
2S	11	10	47	.2	7	1	
3S	15	16	54	.1	8	1	
4S	26	13	54	.2	11	1	
5S	22	13	56	.1	11	1	
6S	16	8	50	.1	11	1	
8S	27	12	69	.4	11	1	
9S	21	13	61	.3	9	1	
10S	47	27	83	.5	16	1	
11S	21	11	65	.1	7	1	
12S	26	18	64	.1	4	1	
13S	25	12	65	.1	4	1	
14S	26	16	69	.1	10	1	
STD C/AU-0.5	58	40	137	7.2	39	495	

MANNY CONSULTANTS

PROJECT - D.C.L. FILE # 88-0748

PAGE 2

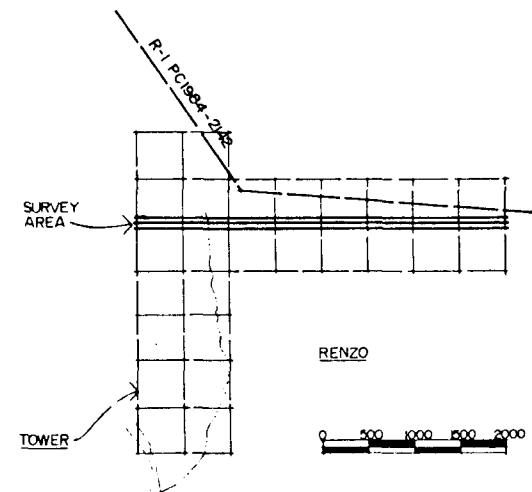
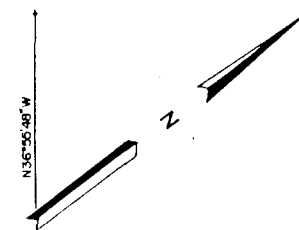
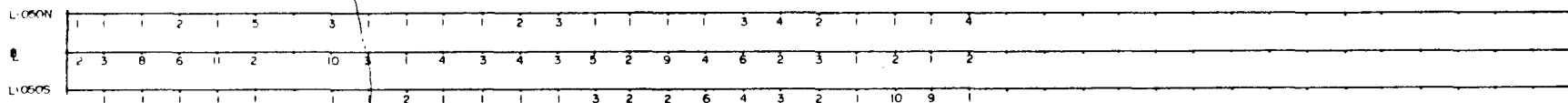
SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB
158	37	21	73	.4	10	3
168	47	23	106	.7	14	11
178	32	20	58	.3	6	2
188	38	18	18	.3	0	6
198	32	27	75	.1	9	4
208	31	12	92	.4	0	3
218	24	9	64	.3	0	2
228	33	14	80	.4	1	4
238	66	27	112	.8	21	10
248	18	15	48	.1	10	9
258	15	14	46	.1	7	1
1	21	17	57	.1	0	1
2	19	13	56	.3	4	3
3	20	17	50	.1	6	0
4	27	16	59	.3	7	6
5	15	12	47	.1	4	1
6	36	14	42	.6	0	2
8	64	22	97	1.1	11	10
9	33	26	69	.1	7	5
10	47	33	66	.7	6	1
11	27	14	56	.1	6	4
12	45	36	53	.4	18	1
13	30	25	63	.3	5	4
14	47	37	67	.7	9	4
15	26	15	71	.3	10	5
16	51	20	99	.4	10	3
17	29	18	47	.1	4	9
18	27	17	62	.1	6	4
19	29	21	76	.3	9	6
20	29	21	85	.3	11	3
21	24	11	60	.4	5	3
22	34	6	68	.1	11	1
23	24	8	67	.1	10	2
24	15	12	48	.1	6	1
25A	17	14	51	.1	7	2
25B	15	14	46	.1	7	3
STD C/AU-0.5	60	41	136	5.9	37	310

APPENDIX II

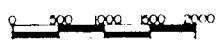
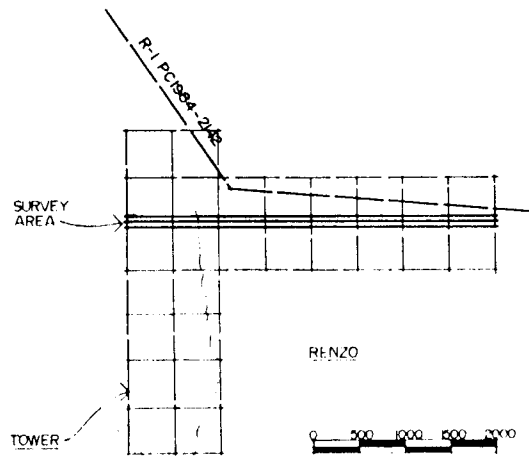
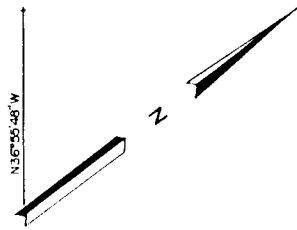
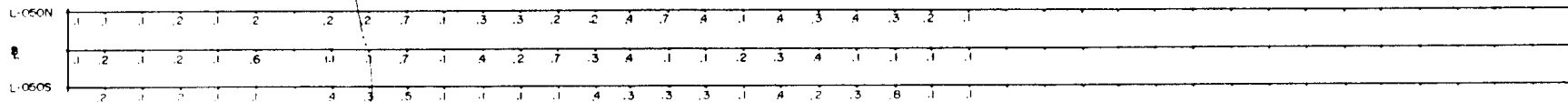
PLOTTED ASSAYS

AU, AG, AS, CU, PB, ZN



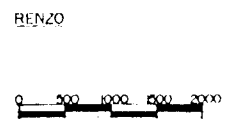
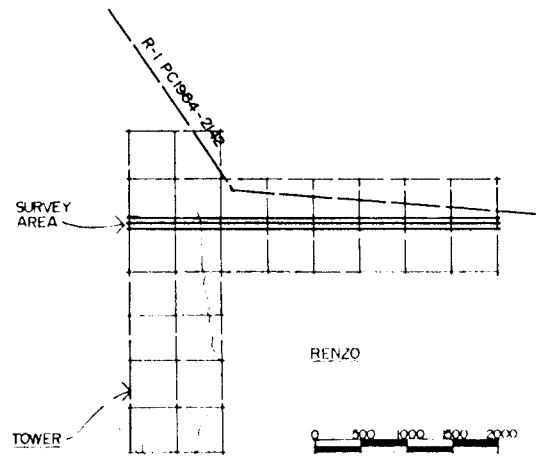
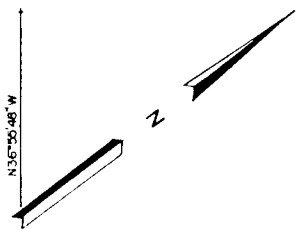


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YA 84678 4703	
<b>GEOCHEMICAL SURVEY</b> Au.	
SURVEY BY MANNY CONST LTD.	DATE 11-20-80
DWN. BY MR	DWG NO



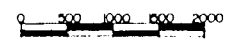
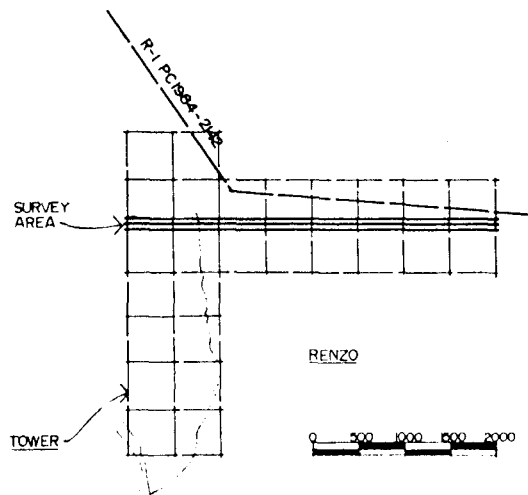
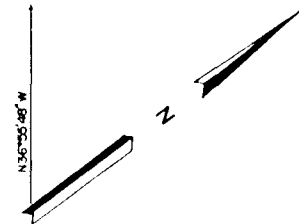
TOWER CLAIMS 1-26 YUKON TERR	
YA 84678 4703	
<b>GEOCHEMICAL SURVEY</b> Ag	
SURVEY BY MANNY CORP LTD	DATE 11 20 89
DRAWN BY VR	DRAWN NO

L:050N	5	4	6	6	8	5	9	5	10	2	6	7	9	7	8	8	8	7	10	9	4	7	4	8
L:050S	7	8	2	5	2	7	5	5	5	4	4	10	10	13	6	2	9	8	8	3	21	10	7	



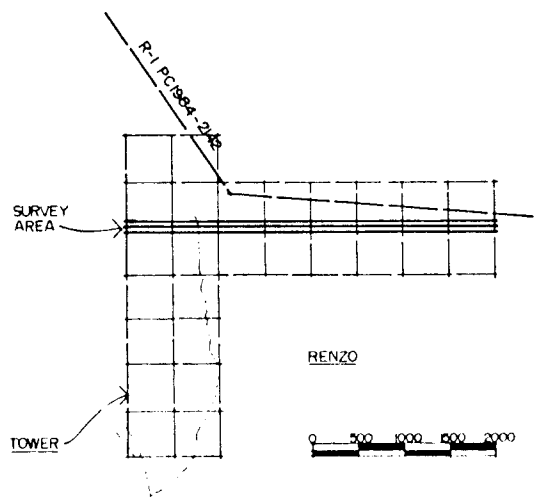
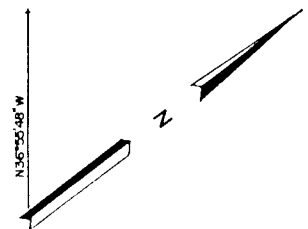
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YA R4678 4703	
<b>GEOCHEMICAL SURVEY</b> As	
SURVEY BY MANNY CONST LTD	DATE 11 20 85
DWN BY VM	DWN NO

L-050N	11	17	22	26	18	17	22	30	57	16	37	25	22	43	21	44	26	31	39	17	30	22	15	15
E	21	19	20	27	15	36	64	33	47	27	45	30	47	27	51	29	27	29	29	24	34	24	15	16
L-050S	11	15	26	22	16	27	27	47	21	28	25	26	37	47	32	25	32	31	24	33	66	18	15	



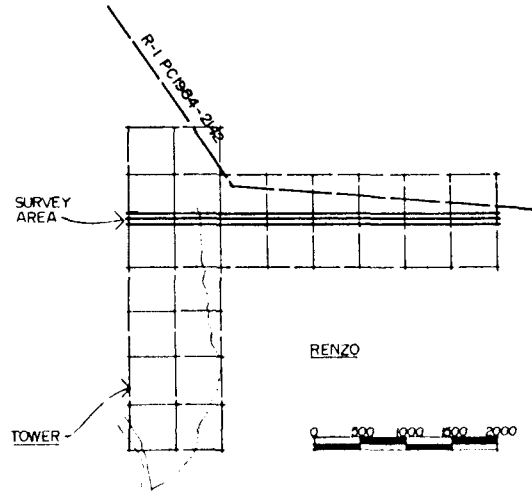
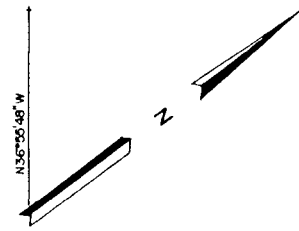
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YA R467B 4703	
<b>GEOCHEMICAL SURVEY</b> Cu	
SURVEY BY MANNING CONSULT LTD	DATE 11-20-85
DRAWN BY MR	DWG NO

L-050N	50	43	53	60	50	47	72	69	79	95	70	67	69	77	60	84	66	76	90	64	68	66	48	50
	57	56	50	58	47	42	97	69	66	56	53	63	67	71	99	47	62	76	85	60	65	69	48	51
L-050S	47	54	54	56	50	89	81	83	85	64	65	89	73	106	58	16	78	92	64	58	112	48	46	



TOWER CLAIMS 1-26 YUKON TERR	
YA R4678 4703	
<b>GEOCHEMICAL SURVEY</b> Zn	
SURVEY BY MANNY CONST LTD	DATE 11-20-85
DWN BY VM	DWNG NO

L:060N	7	9	8	10	10	5	14	16	28	12	15	12	12	18	11	27	7	17	26	6	5	10	5	15
E	17	13	13	16	12	14	22	26	33	14	36	25	27	15	20	18	17	21	21	11	6	8	12	14
L:060S	10	16	13	13	8	12	13	27	11	18	12	16	21	23	20	15	23	12	9	5	23	15	14	



TOWER CLAIMS 1-26 YUKON TERR	
YA 84678 4703	
<b>GEOCHEMICAL SURVEY</b> Pb	
SURVEY BY MANNY LEWIS LTD	DATE 11 20 85
DRAWN BY WL	ENGINEER NO