

MAP No.

16 B 3

ASSESSMENT REPORT  
N. M. E. A. P.  
CONFIDENTIAL  
OPEN FILE



TYPE OF  
WORK:

DAWSON M.D.

GEOLOGICAL, GEOCHEMICAL  
GEOPHYSICAL

REPORT FILED UNDER	Manny Consultants Ltd.	DOCUMENT NO.	091671
DATE PERFORMED	July 5 - Oct. 9, 1985	DATE FILED:	Aug. 28, 1985
LOCATION - LAT. LONG.	64°07'N	AREA:	
	139°12'W		
CLAIM NO.	XL 1-16	YA65507-YA65522	GEF 1-24 YA84237-YA84350
	17-34	YA79163-YA79180	
	35-150	YA79734-YA79849	
	151-170	YA84266-YA84285	
	RENZO 1-49	YA84359-YA84407	
VALUE \$			
WORK DONE BY	E. Amendolagine		
WORK DONE FOR	Manny Consultants Ltd.		

REMARKS

091671

The claims lie 8 km north of Dawson City and are believed to overlie a contact fault zone between serpentinites and crystalline metamorphic-rocks.



For 85 p 256 ✓

In 1984 a work program consisting of soil sampling, I.P. magnetometer and max-min electromagnetic geophysical surveys and reconnaissance mapping was done.

A road was built onto the property followed by linecutting and flagging of stations. The soil and geophysical surveys were conducted using this grid which covered 24 claims. Line spacing was 60 m with 60 m between stations.

Soil samples were assayed for Pb, Zn, Ag, Cu, Mo, Au, Ni and Cr. Two anomalous east-west trending zones were located. The anomalies extend for 400 to 1500 m and contain high values of Mo, Pb, Zn, Ag and Cu. Values for gold were low.

An east-west trending magnetic high was also defined. This was felt to represent a thin serpentinite unit which marks a fault zone.



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Geological, Geochemical, Geophysical

ASSESSMENT REPORT

ON CLAIMS

RENZO 1-49

GEF 1-24

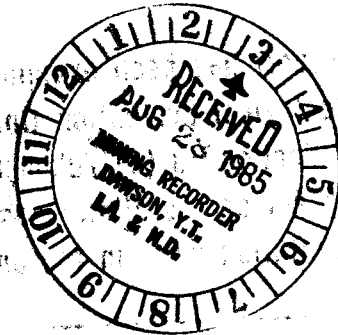
XL 1-170

N. LATITUDE 64° 07'

W. LONGITUDE 139° 12'

CLAIM SHEET 116-B-3

DAWSON CITY AREA,  
YUKON TERRITORY



June 18, 1985

Manny Consultants Ltd.  
E. Amendolagine, P. Eng.

Work Program: July 5 - October 19, 1984

091671

*ReSubmission*



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 \$ 24,200.00.

*D. A. Emond*

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

150180

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GEOCHEMICAL SURVEYS

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RESISTIVITY SURVEY

## INTRODUCTION

During the period of July 5 to October 19, 1984 a series of exploration surveys were conducted on 170 XL claims, 49 Renzo claims and 24 GEF claims in the Dawson Mining Division of the Yukon Territory.

The surveys conducted consisted of a soil geochemical survey, induced polarization survey, magnetometer survey, max-min electromagnetic survey and reconnaissance geologic observations and mapping.

All the surveys were conducted under the supervision of Emmanuel Amendolagine, P. Eng. of Manny Consultants Ltd.

The soil geochemical survey was conducted by Manny Consultants Ltd. The geological survey was conducted by D. Olson, P. Eng. and the geophysical surveys were conducted by Geotronics Surveys Ltd.

PROPERTY

The claims included are:

Claim name	No.s	Holder of claim
XL 1-16	YA 65507-65522	Joseph Hua
XL 17-34	YA 79163-79180	Joseph Hua
XL 35-150	YA 79734-79849	Laberge Resources Ltd.
XL 151-170	YA 84266-84285	Laberge Resources Ltd.
RENZO 1-49	YA 84359-84407	Sabatino Amendolagine
GEF 1-24	YA 84237-84350	Sabatino Amendolagine

All the claims are shown on claim sheet 116-B-3 Appendix I and are in the Dawson Mining Division of the Yukon Territory.

LOCATION

The property is located at 64° 7' N Latitude, 139° 12' W Longitude, some 500 km northwesterly of Whitehorse, some 8 km northeasterly of Dawson City, Yukon Territory, northeast of the junction of the Klondike River and Lepine Creek, on Moosehide Hills, and in the headwaters of Shovel Creek, Bradley Creek, Ruitter Creek, Noble Creek, Foster Gulch, Wood Gulch, and Moosehide Creek, in the Dawson mining District of the Yukon Territory.

ACCESS

The property is accessible some 500 air kms northwesterly of Whitehorse by daily air flights from Whitehorse to Dawson City, Yukon Territory.

Access to the claims from Dawson City is some 8 km northeasterly up Moosehide Range requiring truck-jeep vehicle.

## WORK PROGRAM

Surveys were completed during the period of July 5 to October 19, 1984.

The major portion of the surveys were carried out in the central portion of the claims.

The work consisted of:

1. Road building for access to the whole property (surveyed area roads shown on geology plan).
2. Line cutting and flagging. The surveyed area (24 claims) was systematically covered with lines in a northeasterly direction at 60 meter spacing and stations along the lines at 60 meter intervals. This was the control for the surveyed areas. Lines shown on soil geochemical plans.
3. Geological mapping only in the surveyed area. (Appendix II).
4. Soil geochemical survey at 60 meter intervals along the lines on claims XL99, 101, 103, 105, 107, 109, 111, 113, and claims XL1 to 16 inclusive. Soil samples were assayed for Au, Ag, Cu, Pb, Zn, Mo, Ni and Cr. The results are discussed by David Mark in his preliminary discussion report Appendix IV. The assay certificates are included in Appendix III. (Survey Plans Appendix II)
5. Proton Magnetic Survey readings were taken on all stations on Claims XL2, 4, 6, 8, 10, 12, 14, 16, 99, 101, 103, 105, 107, 109, 111, 113. The results are plotted on the Magnetic Survey Plan. The results are discussed by David mark in his preliminary discussion report which follows the survey plans.

6. The I.P. survey was conducted across the northern eastwest trending low intensity magnetometer response and across the west boundary high intensity magnetic response.

Six of the I.P. lines crossed the low intensity magnetic trend and the seventh I.P. line traversed across the west boundary of the surveyed area to check the geochemical and high intensity magnetic trend.

One max-min EM survey line was superimposed on the L-900E IP line.

7. A detailed report is included by Geotronics Surveys Ltd. discussing the geochemical I.P. and EM results. Appendix V

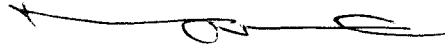
Copies of the line plan, geochemical results, I.P. and EM section included in Appendix IV.

CONCLUSIONS AND RECOMMENDATIONS

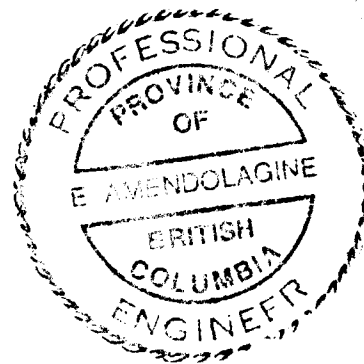
The complete work program consisting of geology, geochemical and geophysical surveys yielded very positive results.

It is recommended that the exploration and development program be continued with further surveys and diamond drilling.

Respectfully submitted,



E. Amendolagine, P. Eng.



COST BREAKDOWN

FIELD MEN

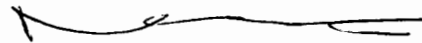
Ken Thompson 39 days @ 125/day			
July 5 to 28, Sept 28 to Oct 12			\$ 4,875.00
Renzo & Ciolifitto 31 days @125/day			
July 5 to August 14			3,875.00
Sab Amendolagine 48 days @ 150/day			
July 5 to August 20 Crew Cheif			7,200.00
D. Olson 41 days @ 200/day			
July 5 to Aug 15 Geologist			8,200.00
Soil Sample Assays			10,050.65
Room and Board			9,497.20
Transportation Air	4,840.76		
4x4	3,080.58		
Freight	<u>753.76</u>		
			8,675.10
M.B.W. Surveys, Linecutting Flagging			
Repair roads, cut new roads			30,316.96
Reports-drafting maps			7,000.00
Communication Supplies			2,552.54
Geotronics Surveys IP, EM			35,420.00
Manny Consultants Engineering			<u>3,500.00</u>
			\$ 131,162.45
			=====

CERTIFICATE

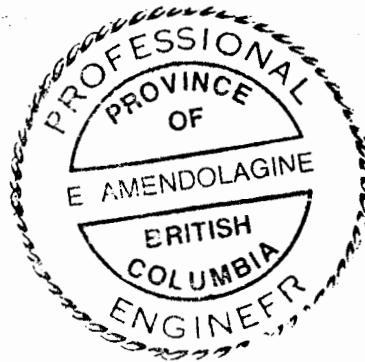
I, Emmanurel Amendolagine, of the City of Vancouver, in the Province of British Columbia, hereby certify:

1. That I am a geologist and reside in Vancouver, B.C.
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 in reference to the soil geochemical survey completed, Induce Polarization, Max-Min EM Survye, geological observation, road construction and road repairs completed from July to October 1984.
5. That the writer does not have, nor does he expect to receive, either directly or indirectly, any interest in Herdis International Canada Ltd.

DATED AT Vancouver, British Columbia, this 18th day of June 1985.

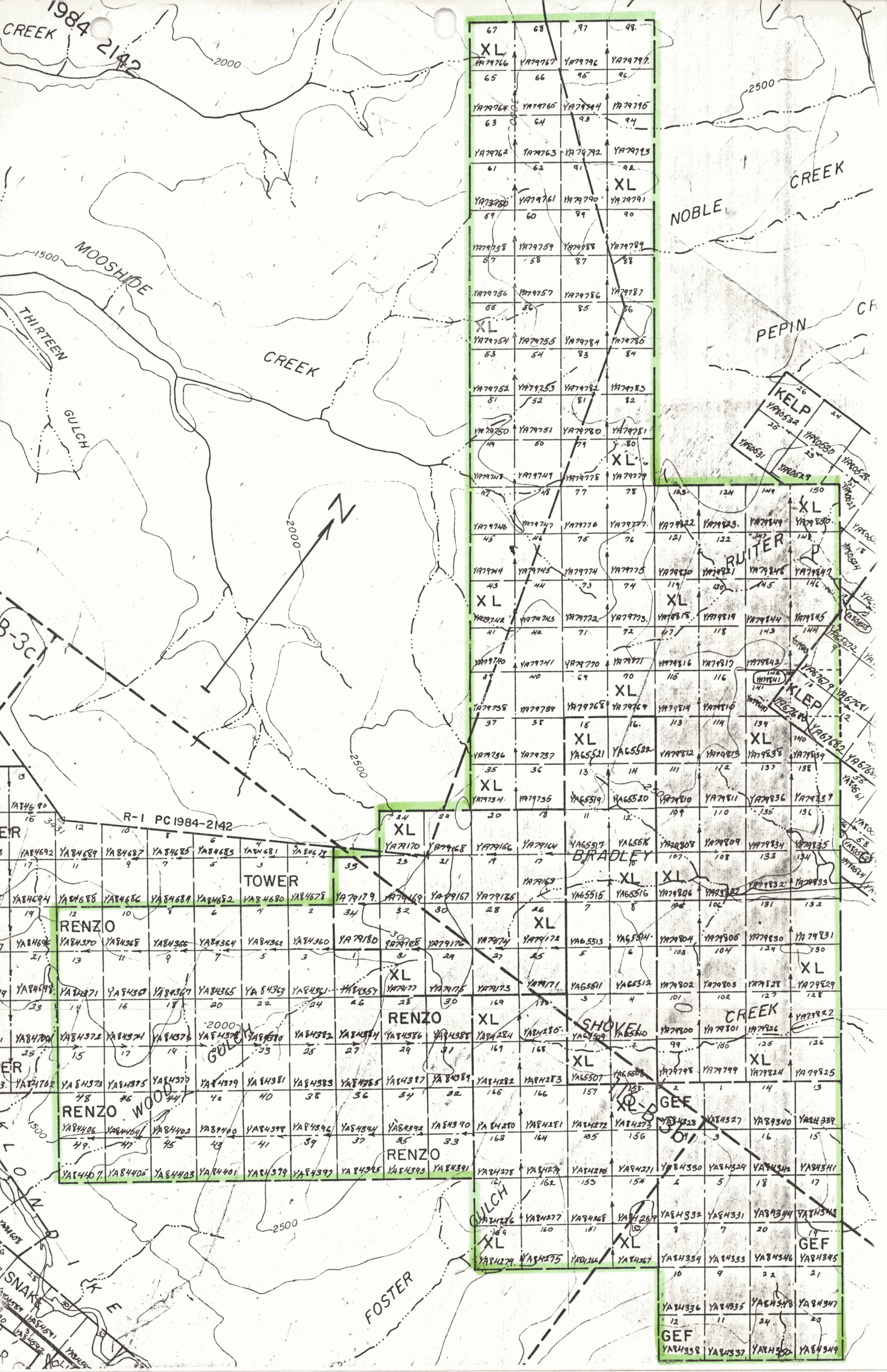


E. Amendolagine, P. Eng.



APPENDIX I

CLAIM GROUP



67	68	97	98
XL	YA79766	YA79767	YA79796
65	66	95	96
YA79764	YA79765	YA79794	YA79795
63	64	93	94
YA79762	YA79763	YA79792	YA79793
61	62	91	92
YA79760	YA79761	YA79790	XL
69	60	89	90
YA79758	YA79759	YA79788	YA79789
67	68	87	88
YA79756	YA79757	YA79786	YA79787
65	66	85	86
XL	YA79754	YA79755	YA79784
63	64	83	84
YA79752	YA79753	YA79782	YA79783
61	62	81	82
YA79750	YA79751	YA79780	YA79781
59	60	79	80
YA79748	YA79749	YA79778	YA79779
57	58	77	78
YA79746	YA79747	YA79776	YA79777
45	46	75	76
YA79744	YA79745	YA79774	YA79775
43	44	73	74
XL	YA79742	YA79772	YA79773
41	42	71	72
YA79740	YA79741	YA79770	YA79771
39	40	69	70
YA79738	YA79739	YA79768	YA79769
37	38	67	68
YA79736	YA79737	YA65521	YA65522
35	36	65	66
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APPENDIX II

SURVEY PLANS

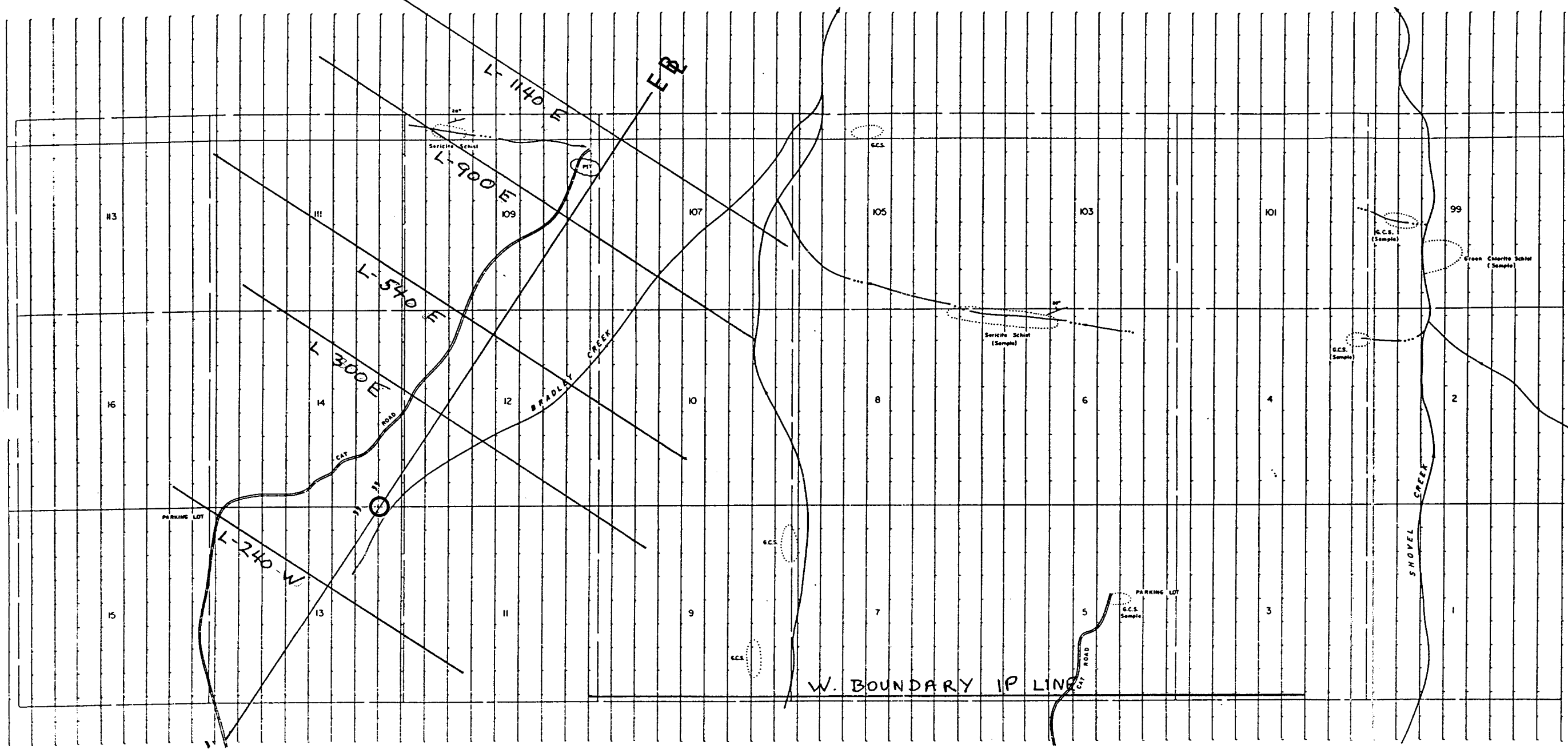
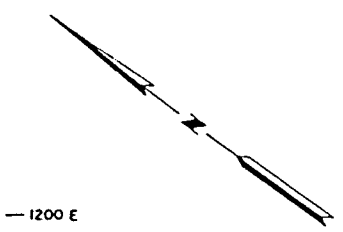
GEOLOGY

I.P. LINES

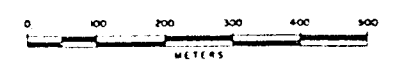
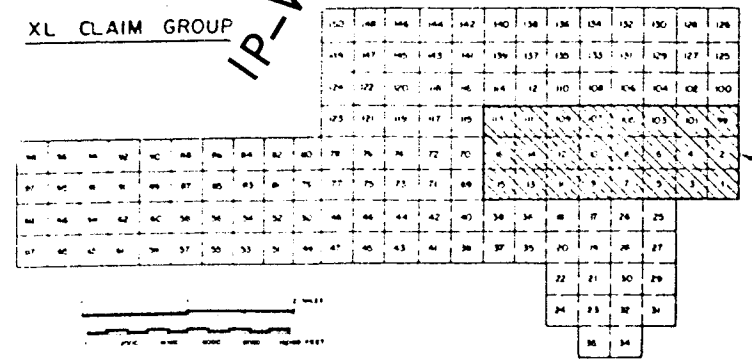
GEOCHEMICAL PLOTTED RESULTS

MAGNETOMETER SURVEY

- L 3900  
 - L 3780  
 - L 3660  
 - L 3540  
 - L 3420  
 - L 3300  
 - L 3180  
 - L 3060  
 - L 2940  
 - L 2820  
 - L 2700  
 - L 2580  
 - L 2460  
 - L 2340  
 - L 2220  
 - L 2100  
 - L 1980  
 - L 1860  
 - L 1740  
 - L 1620  
 - L 1500  
 - L 1380  
 - L 1260  
 - L 1140  
 - L 1020  
 - L 900  
 - L 780  
 - L 660  
 - L 540  
 - L 420  
 - L 300  
 - L 180  
 - L 60  
 - L 0+00

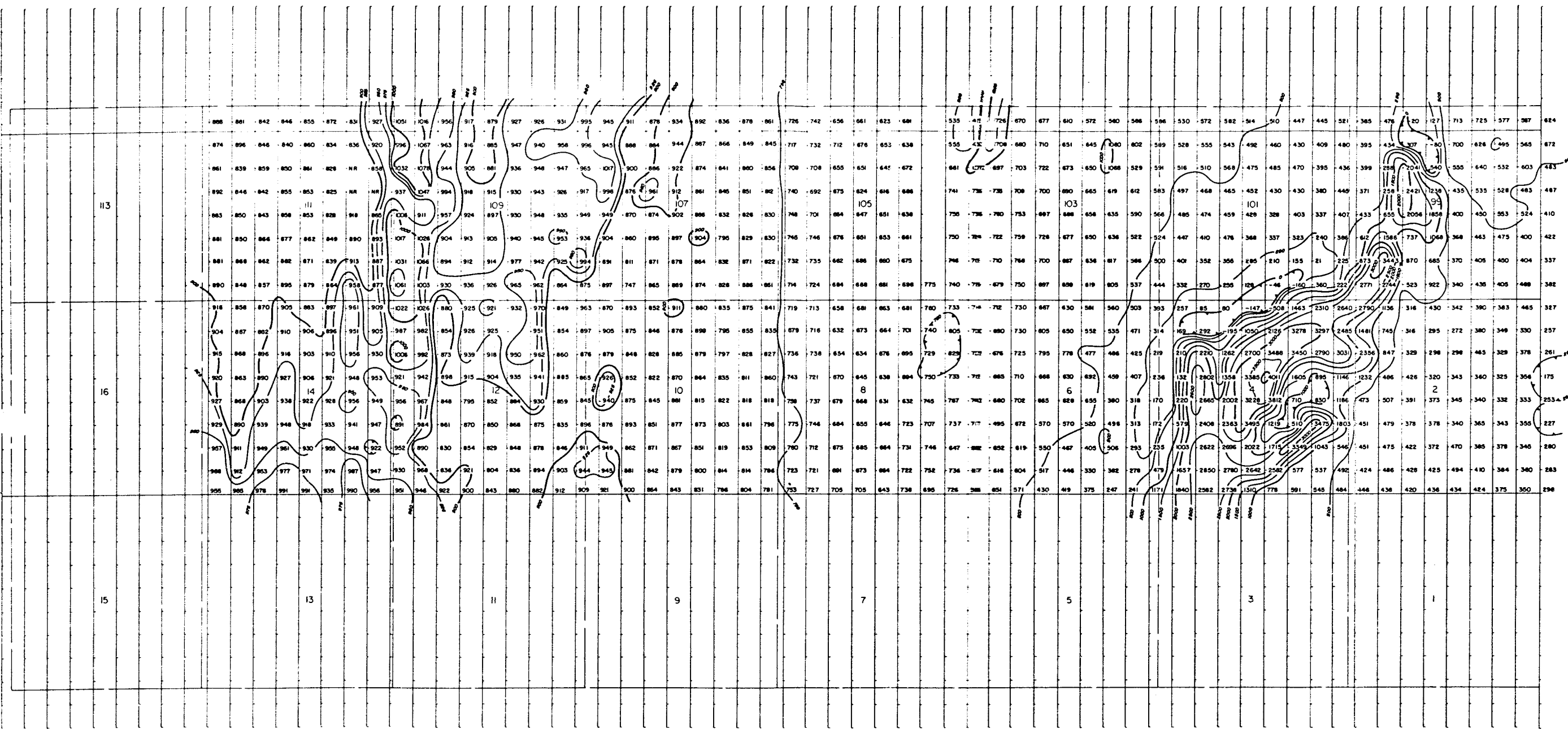
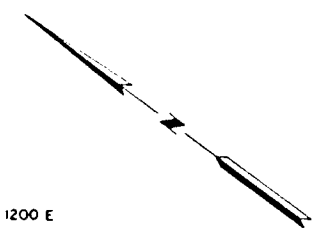


- 1200 E  
 - 1080 E  
 - 960 E  
 - 840 E  
 - 720 E  
 - 600 E  
 - 480 E  
 - 360 E  
 - 240 E  
 - 120 E  
 - 0+00 B.L.  
 - 120 W  
 - 240 W  
 - 360 W  
 - 480 W  
 - 600 W



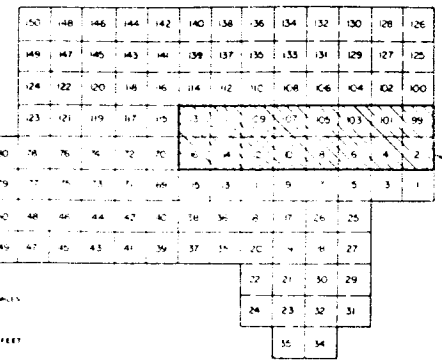
HERDIS INTERNATIONAL CANADA INC.  
**XL CLAIMS  
 GEOLOGY  
 I.P. LINES**  
 DAWSON MINING DISTRICT      YUKON TERRITORY  
 SURVEY BY: MANNY CONSULTANTS LTD      DATE: SEPTEMBER 7, 1964  
 DRAWN BY: E.D.W. HOLDINGS LTD      DWG. NO.

120  
 - L 3900  
 - L 3780  
 - L 3660  
 - L 3540  
 - L 3420  
 - L 3300  
 - L 3180  
 - L 3060  
 - L 2940  
 - L 2820  
 - L 2700  
 - L 2580  
 - L 2460  
 - L 2340  
 - L 2220  
 - L 2100  
 - L 1980  
 - L 1860  
 - L 1740  
 - L 1620  
 - L 1500  
 - L 1380  
 - L 1260  
 - L 1140  
 - L 1020  
 - L 900  
 - L 780  
 - L 660  
 - L 540  
 - L 420  
 - L 300  
 - L 180  
 - L 60  
 - L 0+00



1200 E  
 1080 E  
 960 E  
 840 E  
 720 E  
 600 E  
 480 E  
 360 E  
 240 E  
 120 E  
 0+00 B.L.  
 120 W  
 240 W  
 360 W  
 480 W  
 600 W

XL CLAIM GROUP



LEGEND



MAGNETIC LOW

CONTOUR INTERVAL AS SHOWN

NOTE:  
 57,000 gauss subtracted from all readings  
 - 864 reads 57,864 gauss  
 - 170 reads 56,830 gauss  
 - 2,622 reads 59,622 gauss

Instrument Scintrex Model MP-2  
 graph processor magnetometer

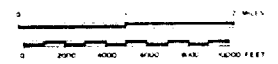


HERDIS INTERNATIONAL CANADA INC.

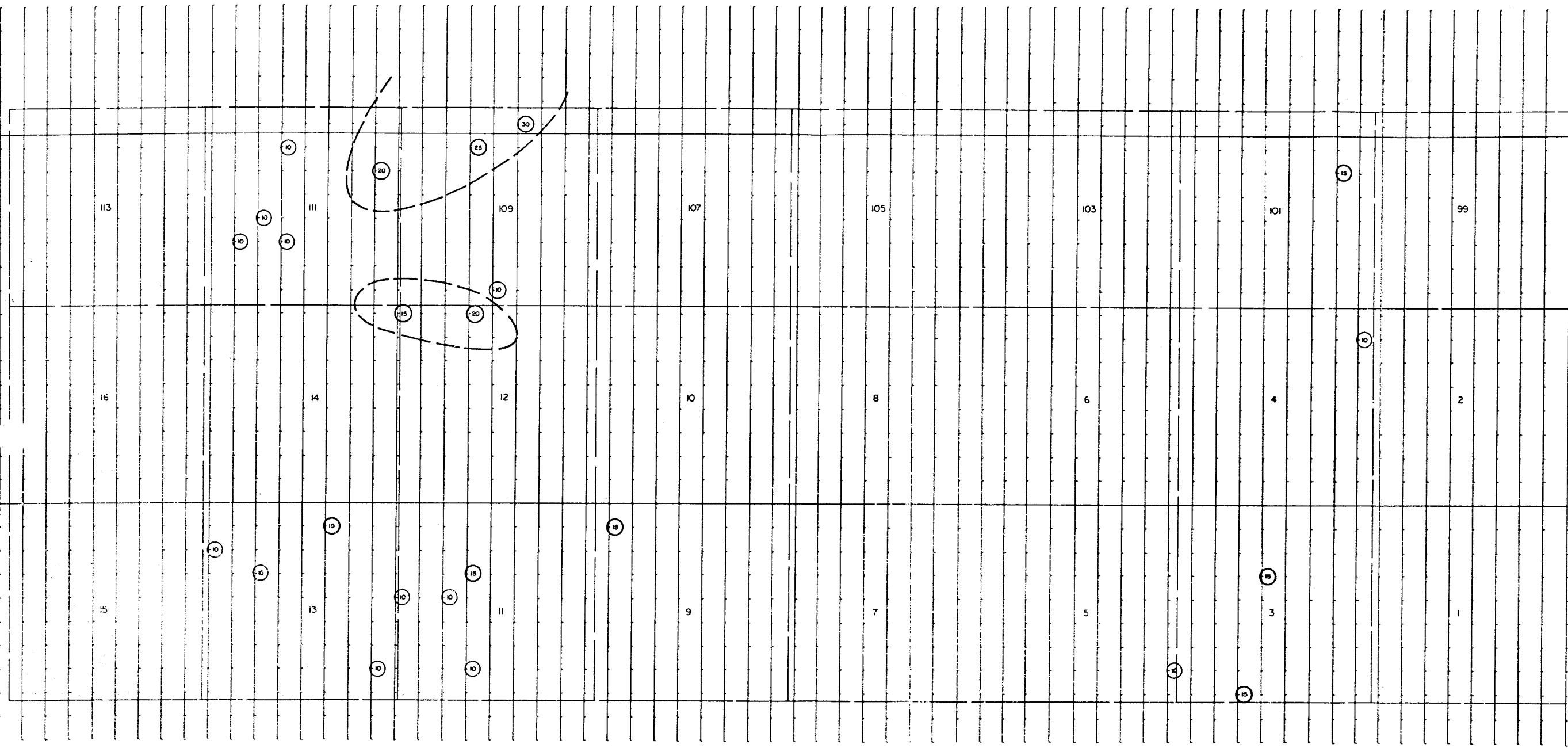
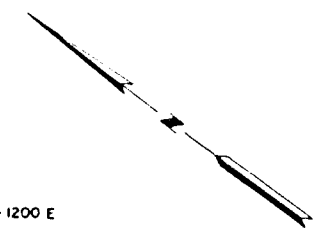
**XL CLAIMS  
 MAGNETIC SURVEY  
 DATA & CONTOURS**

DAWSON MINING DISTRICT      YUKON TERRITORY

SURVEY BY GEOTRONICS SURVEYS LTD      DATE SEPTEMBER 7, 1984  
 DRAWN BY R.D.H. HOLDINGS LTD.      DWG No

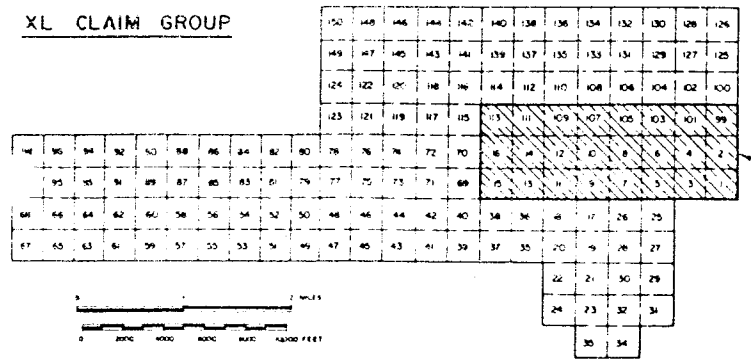


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 - L 3780  
 - L 3660  
 - L 3540  
 - L 3420  
 - L 3300  
 - L 3180  
 - L 3060  
 - L 2940  
 - L 2820  
 - L 2700  
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 - L 2340  
 - L 2220  
 - L 2100  
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 - L 1620  
 L 1500  
 - L 1380  
 - L 1260  
 - L 1140  
 - L 1020  
 - L 900  
 - L 780  
 - L 660  
 - L 540  
 - L 420  
 - L 300  
 - L 180  
 - L 60  
 - L 0+00



1200 E  
 1080 E  
 960 E "E" B.L.  
 840 E  
 720 E  
 600 E  
 480 E  
 360 E  
 240 E  
 120 E  
 0+00 B.L.  
 120 W  
 240 W  
 360 W  
 480 W  
 600 W

**XL CLAIM GROUP**



**LEGEND**

- ▲ ANOMALOUS 15 - 30 ppb 11 Samples
- ▬ TRANSITION 10 - 14 ppb 24 Samples
- BACKGROUND < 10 ppb 731 Samples
- TRANSITION
- ANOMALOUS

**NOTE**  
 ONLY TRANSITION AND ANOMALOUS VALUES PLOTTED



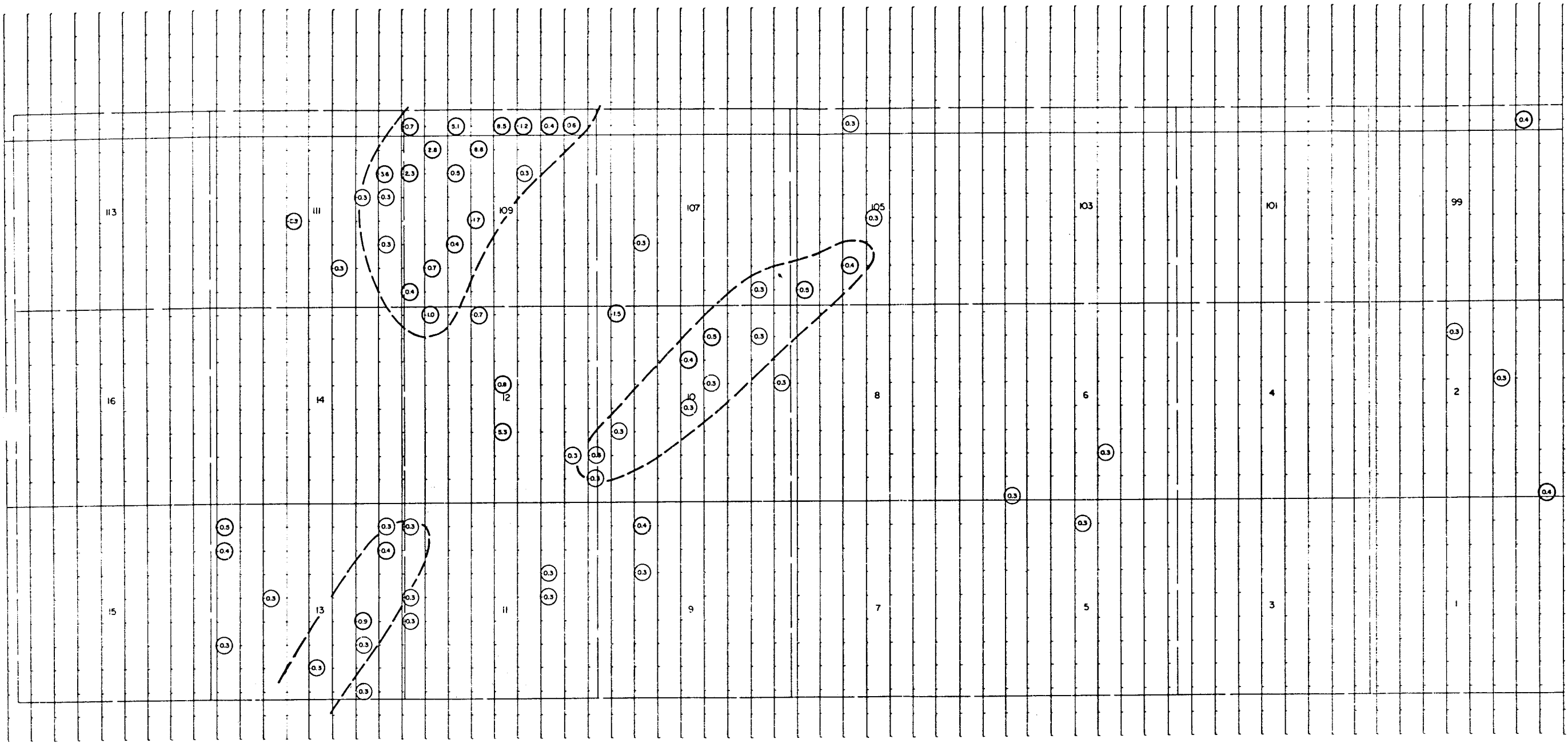
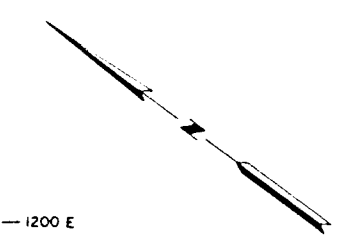
HERDIS INTERNATIONAL CANADA INC.

**XL CLAIMS  
 GEOCHEMICAL SURVEY  
 GOLD IN SOILS (ppb)**

DAWSON MINING DISTRICT YUKON TERRITORY

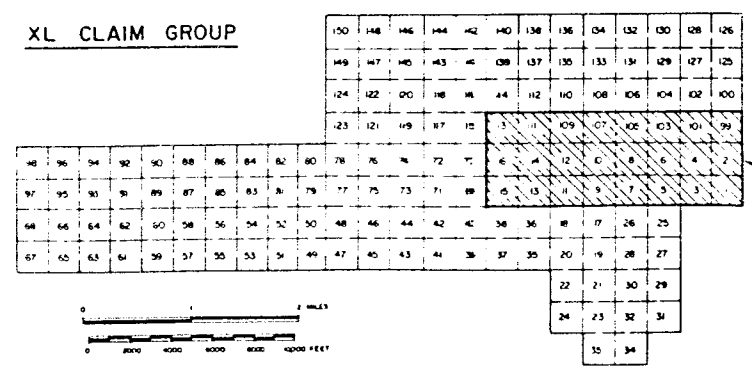
SURVEY BY MANNY CONSULTANTS LTD. DATE SEPTEMBER 7, 1984  
 DRAWN BY K.O.H. HOLDINGS LTD. DWG No.

- L 3900  
- L 3780  
- L 3660  
- L 3540  
- L 3420  
- L 3300  
- L 3180  
- L 3060  
- L 2940  
- L 2820  
- L 2700  
- L 2580  
- L 2460  
- L 2340  
- L 2220  
- L 2100  
- L 1980  
- L 1860  
- L 1740  
- L 1620  
L 1500  
- L 1380  
- L 1260  
- L 1140  
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- L 780  
- L 660  
- L 540  
- L 420  
- L 300  
- L 180  
- L 60  
- L 0+00



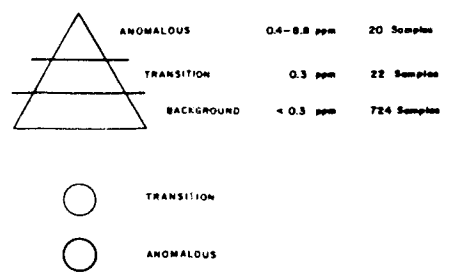
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- 960 E  
- 840 E  
- 720 E  
- 600 E  
- 480 E  
- 360 E  
- 240 E  
- 120 E  
- 0+00 B.L.  
- 120 W  
- 240 W  
- 360 W  
- 480 W  
- 600 W

**XL CLAIM GROUP**



SURVEY AREA

**LEGEND**



NOTE: ONLY TRANSITION AND ANOMALOUS VALUES PLOTTED



HERDIS INTERNATIONAL CANADA INC.

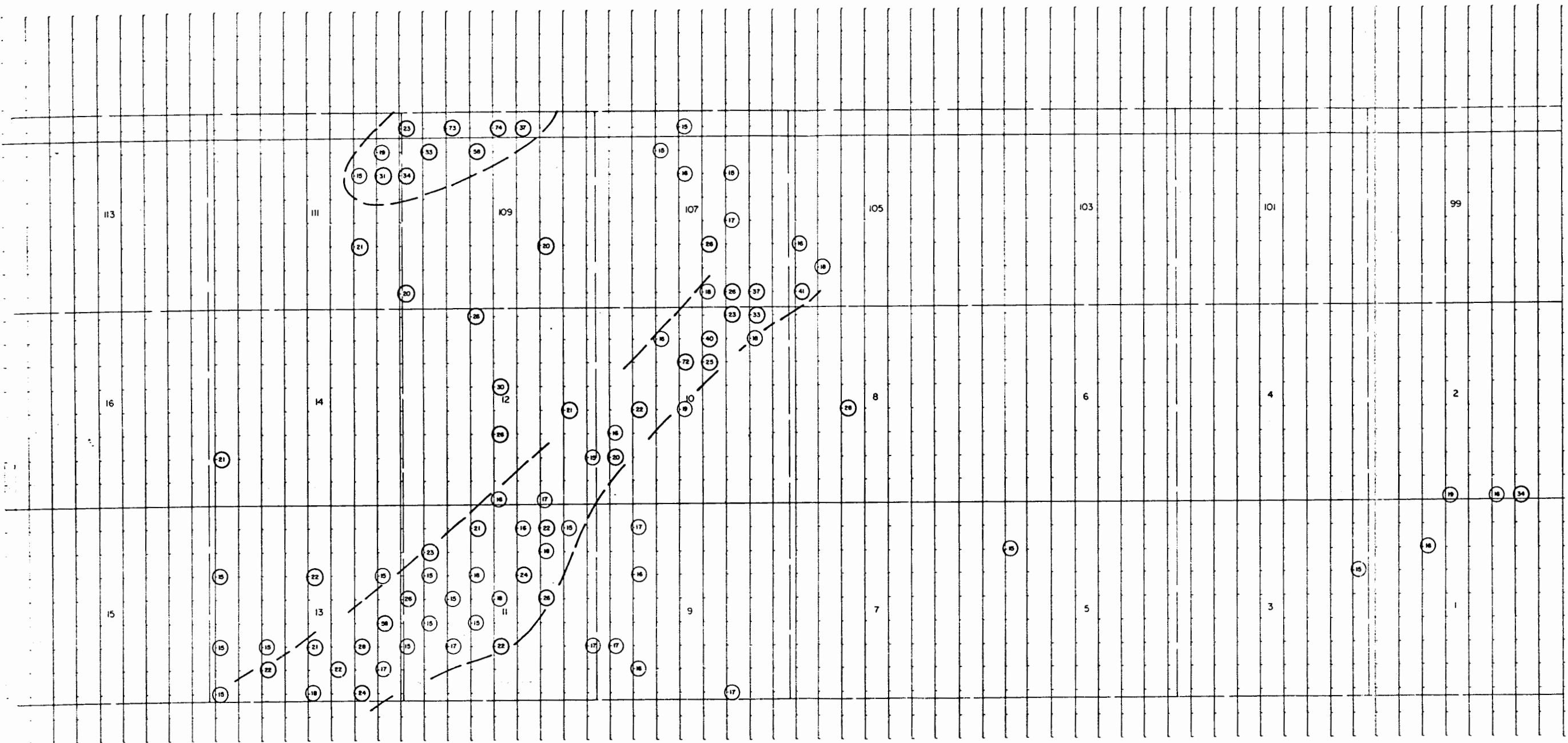
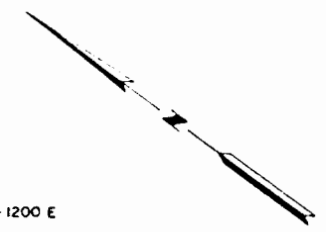
**XL CLAIMS  
GEOCHEMICAL SURVEY  
SILVER IN SOILS (ppm)**

DAWSON MINING DISTRICT YUKON TERRITORY

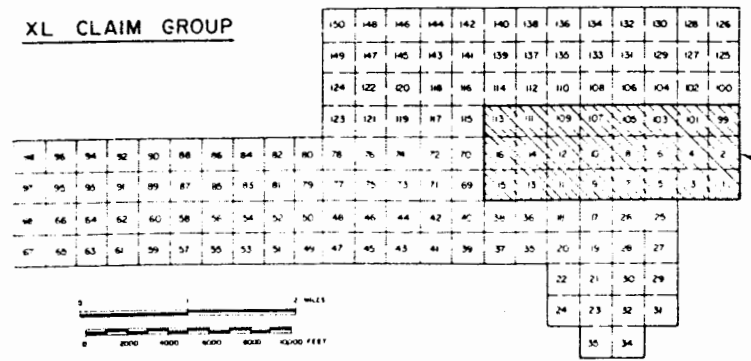
SURVEY BY: MANN CONSULTANTS LTD. DATE: SEPTEMBER 7, 1984

DRAWN BY: K.D.H. HOLDINGS LTD. DWG No:

- L 3900  
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 - L 3540  
 - L 3420  
 - L 3300  
 - L 3180  
 - L 3060  
 - L 2940  
 - L 2820  
 - L 2700  
 - L 2580  
 - L 2460  
 - L 2340  
 - L 2220  
 - L 2100  
 - L 1980  
 - L 1860  
 - L 1740  
 - L 1620  
 L 1500  
 - L 1380  
 - L 1260  
 - L 1140  
 - L 1020  
 - L 900  
 - L 780  
 - L 660  
 - L 540  
 - L 420  
 - L 300  
 - L 180  
 - L 60  
 - L 0+00



- 1200 E  
 - 1080 E  
 - 960 E  
 - 840 E  
 - 720 E  
 - 600 E  
 - 480 E  
 - 360 E  
 - 240 E  
 - 120 E  
 - 0+00 B.L.  
 - 120 W  
 - 240 W  
 - 360 W  
 - 480 W  
 - 600 W



**LEGEND**

	ANOMALOUS	20 - 70 ppm	27 Samples
	TRANSITION	15 - 19 ppm	47 Samples
	BACKGROUND	< 15 ppm	692 Samples
	TRANSITION		
	ANOMALOUS		

NOTE: ONLY TRANSITION AND ANOMALOUS VALUES PLOTTED



HERDIS INTERNATIONAL CANADA INC.

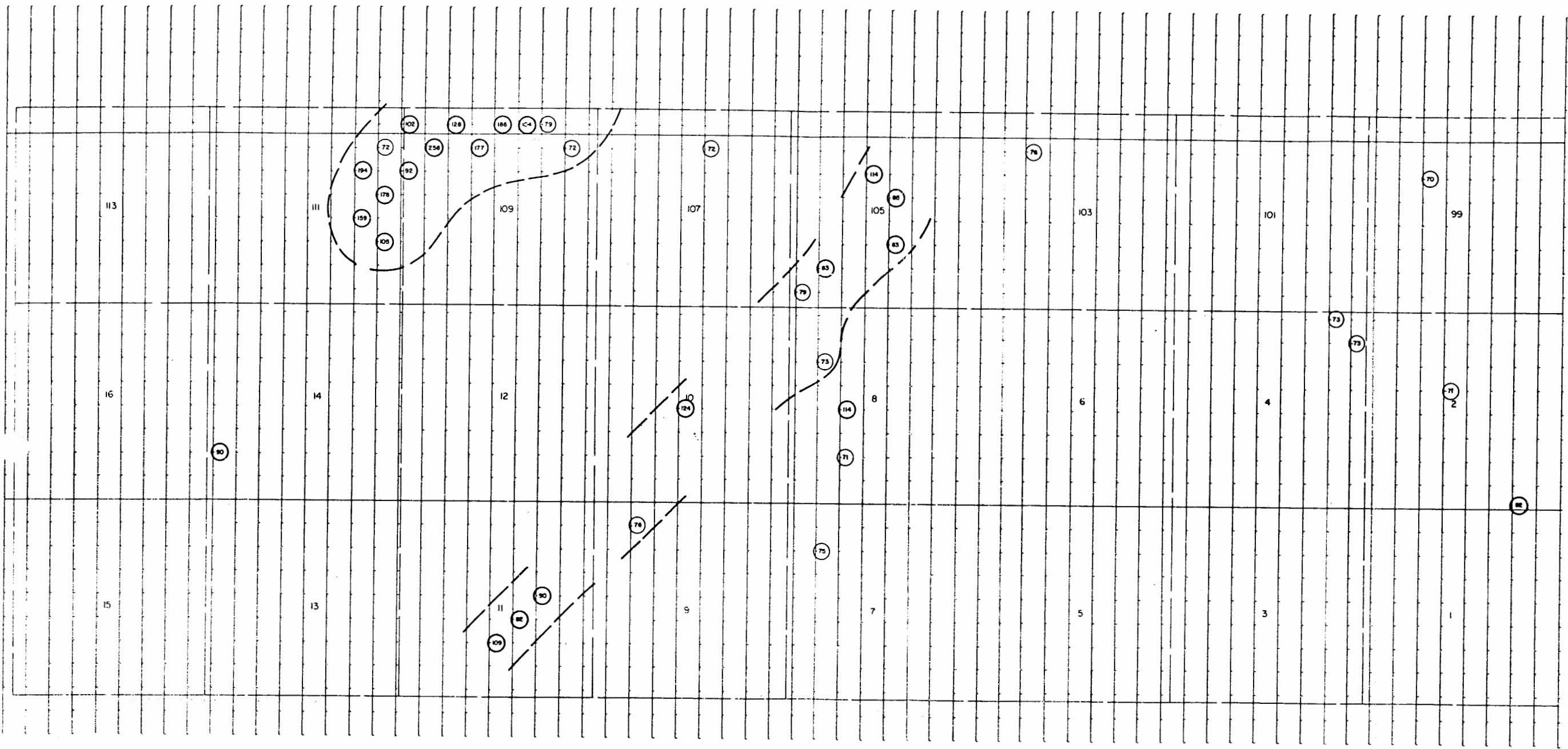
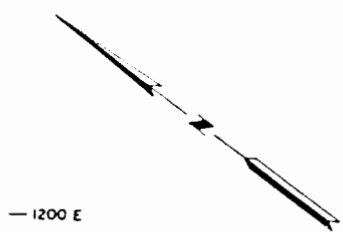
**XL CLAIMS  
GEOCHEMICAL SURVEY  
LEAD IN SOILS (ppm)**

DAWSON MINING DISTRICT YUKON TERRITORY

SURVEY BY: MANNY CONSULTANTS LTD. DATE: SEPTEMBER 7, 1984

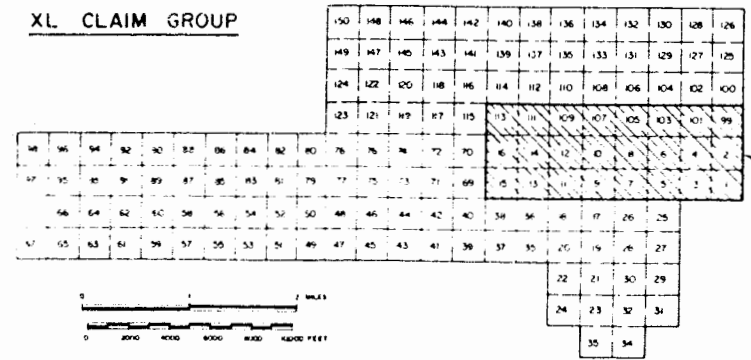
DRAWN BY: R.D.H. HOLDINGS LTD. DWG No.

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 - L 3900  
 - L 3780  
 - L 3660  
 - L 3540  
 - L 3420  
 - L 3300  
 - L 3180  
 - L 3060  
 - L 2940  
 - L 2820  
 - L 2700  
 - L 2580  
 - L 2460  
 - L 2340  
 - L 2220  
 - L 2100  
 - L 1980  
 - L 1860  
 - L 1740  
 - L 1620  
 L 1500  
 - L 1380  
 - L 1260  
 - L 1140  
 - L 1020  
 - L 900  
 - L 780  
 - L 660  
 - L 540  
 - L 420  
 - L 300  
 - L 180  
 - L 60  
 - L 0+00

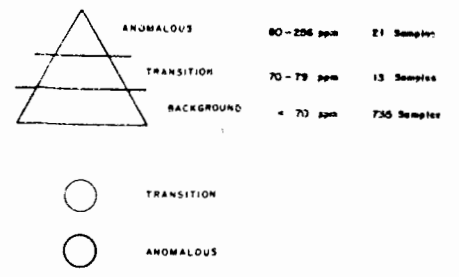


— 1200 E  
 — 1080 E  
 — 960 E "E" B.L.  
 — 840 E  
 — 720 E  
 — 600 E  
 — 480 E  
 — 360 E  
 — 240 E  
 — 120 E  
 — 0+00 B.L.  
 — 120 W  
 — 240 W  
 — 360 W  
 — 480 W  
 — 600 W

**XL CLAIM GROUP**



**LEGEND**

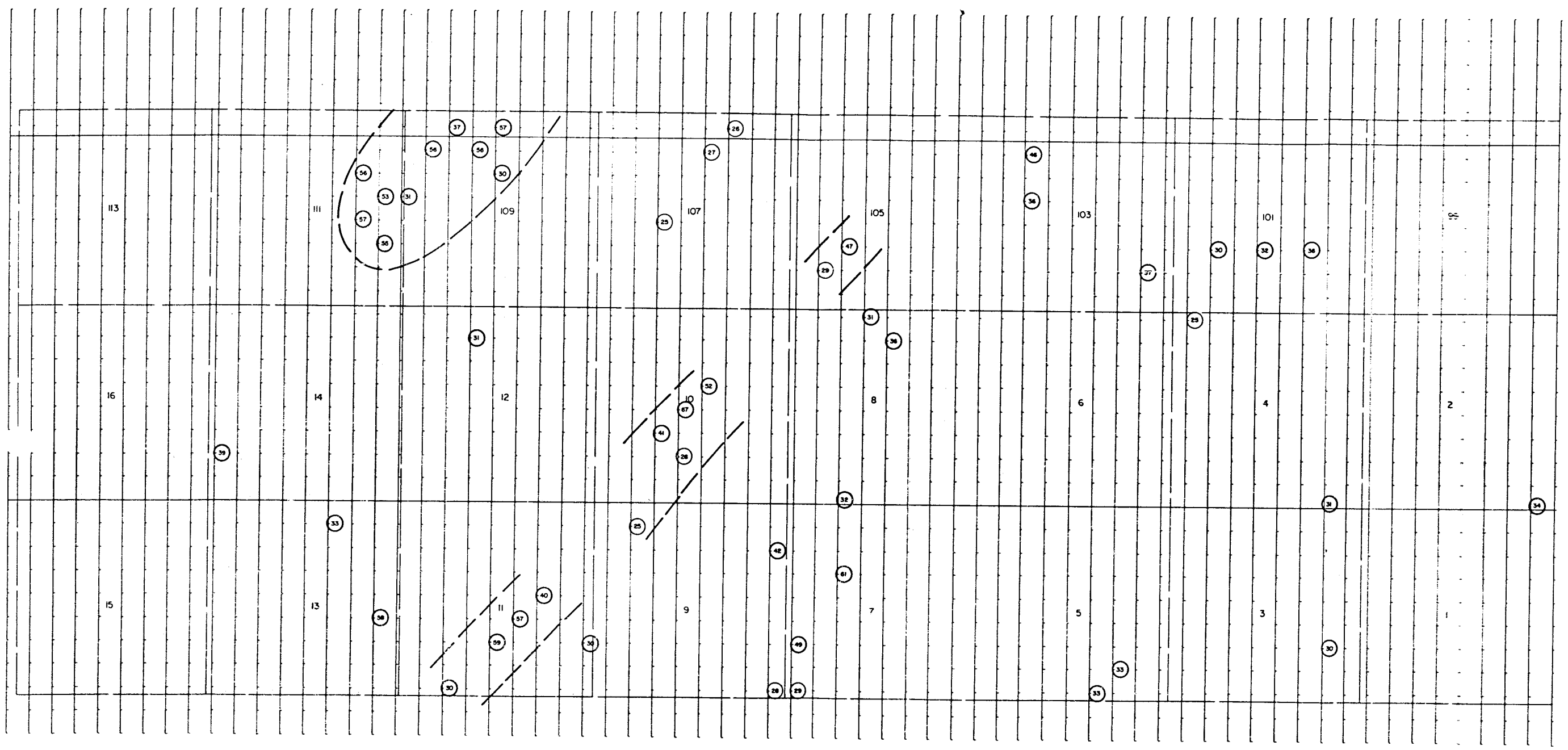
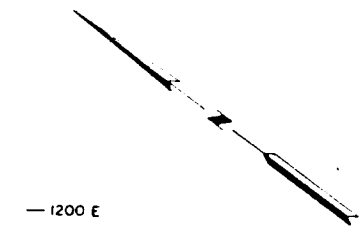


NOTE: ONLY TRANSITION AND ANOMALOUS VALUES PLOTTED



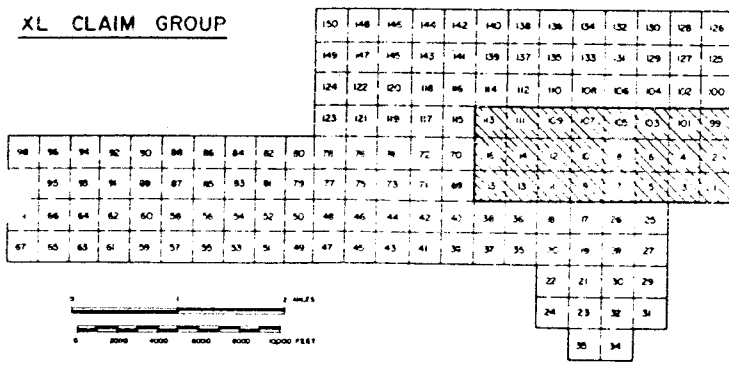
HERDIS INTERNATIONAL CANADA INC.  
 XL CLAIMS  
 GEOCHEMICAL SURVEY  
 ZINC IN SOILS (ppm)  
 DAWSON MINING DISTRICT YUKON TERRITORY  
 SURVEY BY MANNY CONSULTANTS LTD. DATE SEPTEMBER 7, 1994  
 DRAWN BY E.D.M. HOLDINGS LTD. DWG No.

4020  
 - L 3900  
 - L 3780  
 - L 3660  
 - L 3540  
 - L 3420  
 - L 3300  
 - L 3180  
 - L 3060  
 - L 2940  
 - L 2820  
 - L 2700  
 - L 2580  
 - L 2460  
 - L 2340  
 - L 2220  
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 - L 1380  
 - L 1260  
 - L 1140  
 - L 1020  
 - L 900  
 - L 780  
 - L 660  
 - L 540  
 - L 420  
 - L 300  
 - L 180  
 - L 60  
 - L 0+00



1200 E  
 1080 E  
 960 E  
 840 E  
 720 E  
 600 E  
 480 E  
 360 E  
 240 E  
 120 E  
 0+00 B.L.  
 120 W  
 240 W  
 360 W  
 480 W  
 600 W

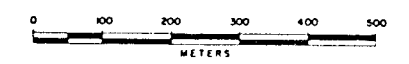
**XL CLAIM GROUP**



**LEGEND**

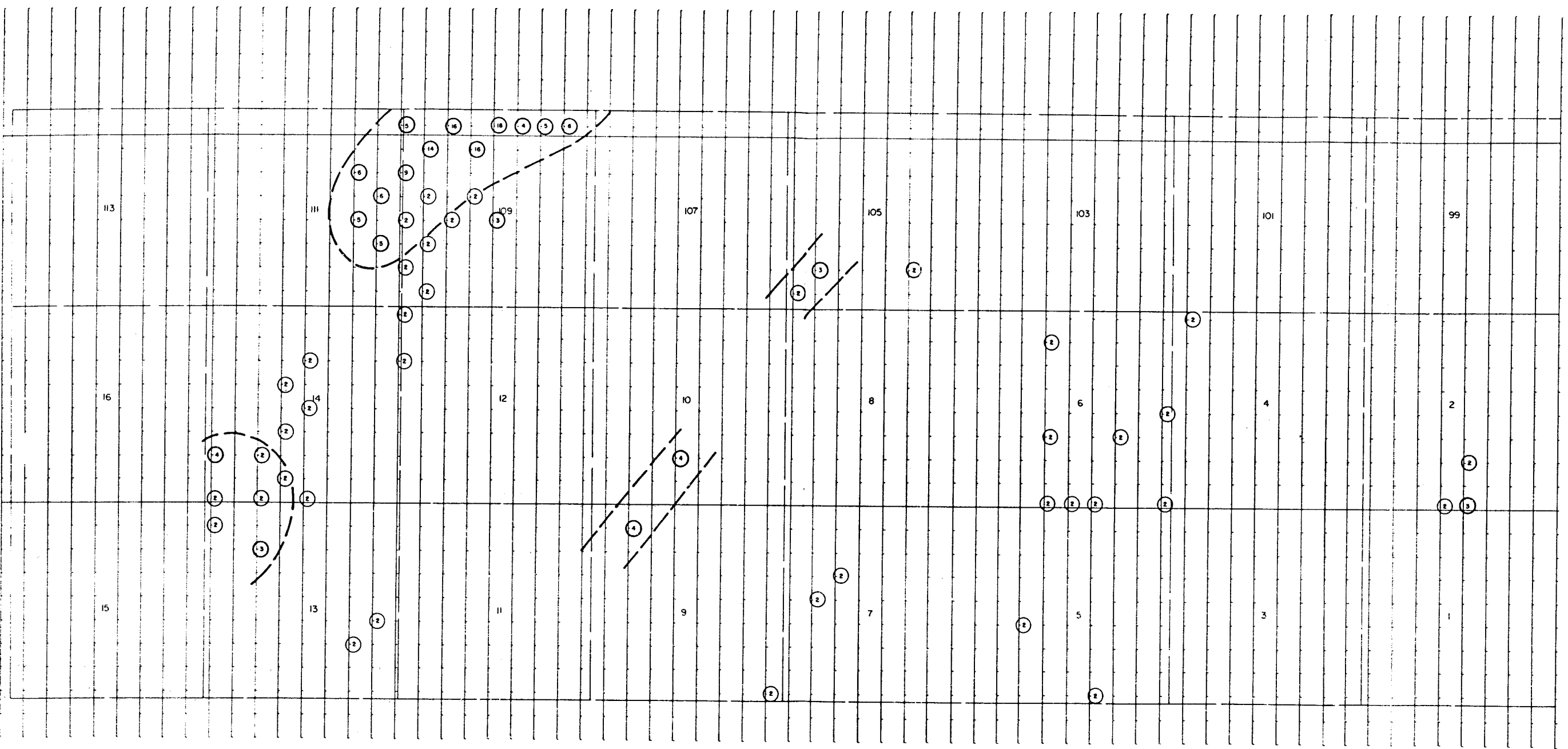
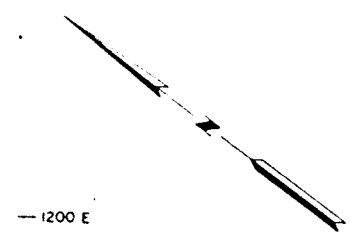
- ▲ ANOMALOUS 30-80 ppm 41 Samples
- ◻ TRANSITION 25-29 ppm 48 Samples
- ◻ BACKGROUND < 25 ppm 872 Samples
- TRANSITION
- ANOMALOUS

**NOTE**  
 ONLY TRANSITION AND ANOMALOUS VALUES PLOTTED



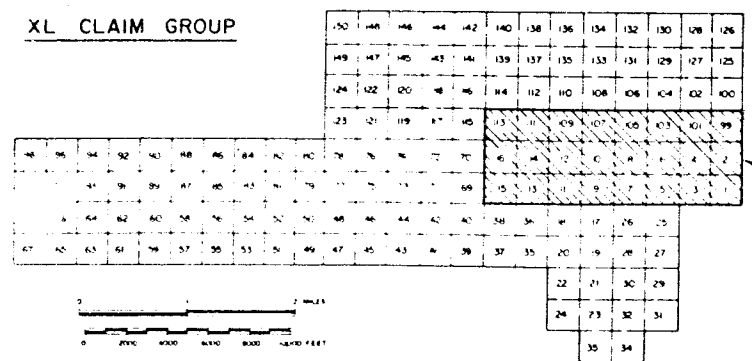
HERDIS INTERNATIONAL CANADA INC.  
 XL CLAIMS  
 GEOCHEMICAL SURVEY  
 COPPER IN SOILS (ppm)  
 DAWSON MINING DISTRICT YUKON TERRITORY  
 SURVEY BY MANNY CONSULTANTS LTD. DATE SEPTEMBER 7, 1984  
 DRAWN BY K.D.H. HOLDINGS LTD. DWG No

- L 4020  
 - L 3900  
 - L 3780  
 - L 3660  
 - L 3540  
 - L 3420  
 - L 3300  
 - L 3180  
 - L 3060  
 - L 2940  
 - L 2820  
 - L 2700  
 - L 2580  
 - L 2460  
 - L 2340  
 - L 2220  
 - L 2100  
 - L 1980  
 - L 1860  
 - L 1740  
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 - L 1020  
 - L 900  
 - L 780  
 - L 660  
 - L 540  
 - L 420  
 - L 300  
 - L 180  
 - L 60  
 - L 0+00



- 1200 E  
 - 1080 E  
 - 960 E  
 "E" B.L.  
 - 840 E  
 - 720 E  
 - 600 E  
 - 480 E  
 - 360 E  
 - 240 E  
 - 120 E  
 - 0+00 B.L.  
 - 120 W  
 - 240 W  
 - 360 W  
 - 480 W  
 - 600 W

**XL CLAIM GROUP**



**LEGEND**

- ANOMALOUS  
 3-18 ppm  
 19 Samples
- TRANSITION  
 2 ppm  
 41 Samples
- BACKGROUND  
 < 2 ppm  
 706 Samples
- TRANSITION
- ANOMALOUS

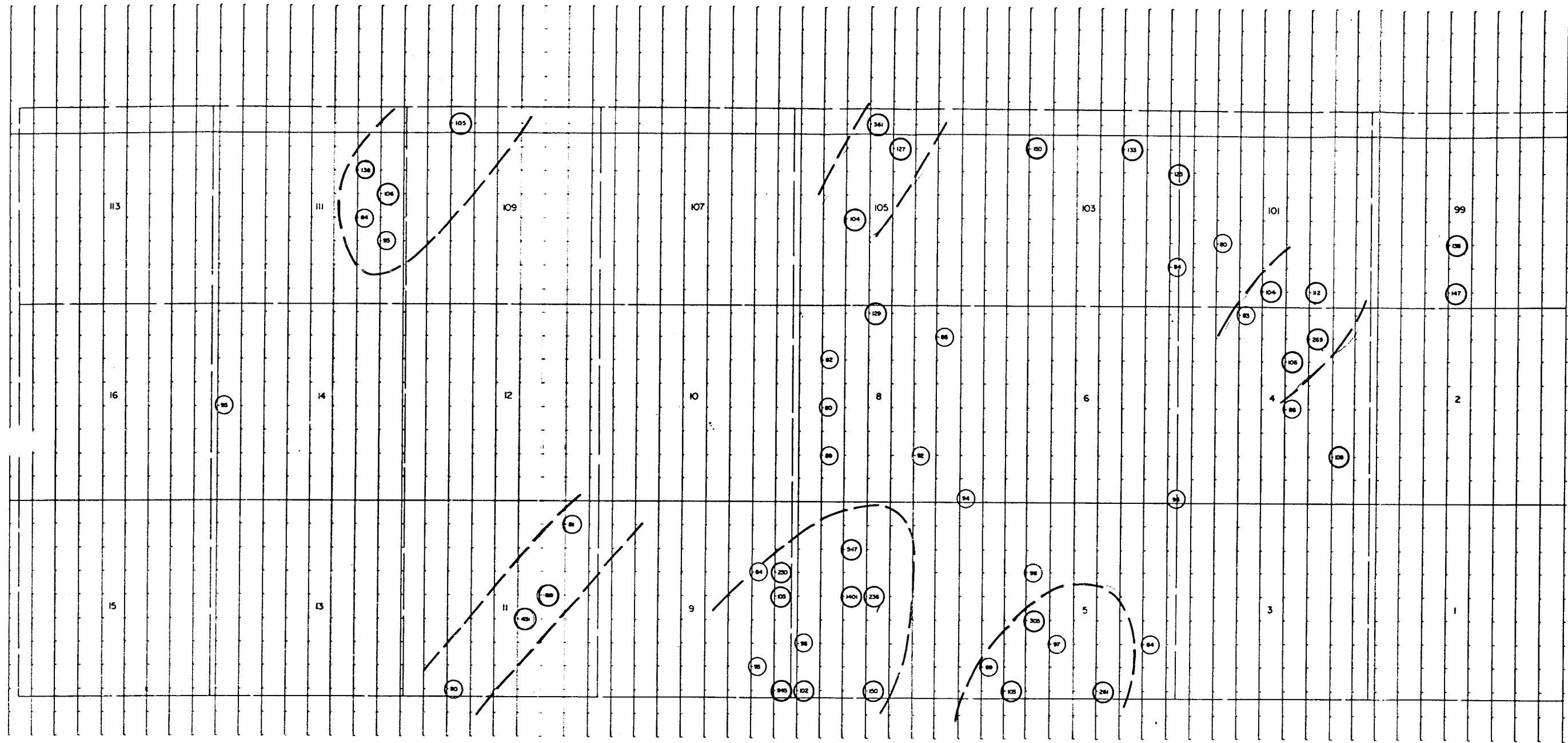
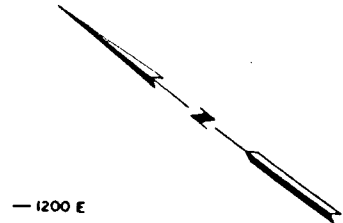
**NOTE**  
ONLY TRANSITION AND ANOMALOUS VALUES PLOTTED



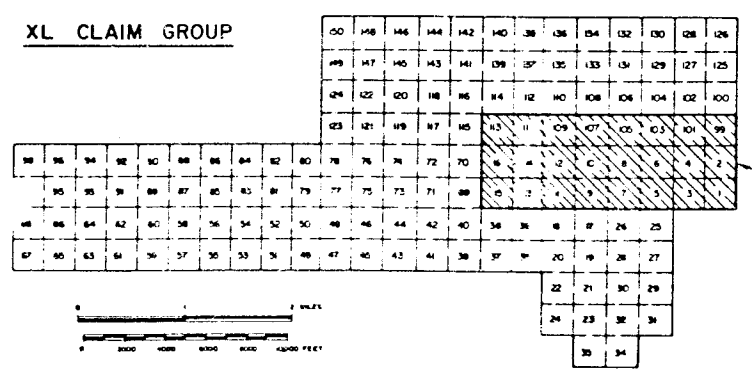
**HERDIS INTERNATIONAL CANADA INC.**  
**XL CLAIMS**  
**GEOCHEMICAL SURVEY**  
**MOLYBDENUM IN SOILS (ppm)**  
 DAWSON MINING DISTRICT      YUKON TERRITORY

SURVEY BY: MANN CONSULTANTS LTD.      DATE: SEPTEMBER 7, 1984  
 DRAWN BY: K.D.W. HOLDINGS LTD.      DWG No

4020  
 - L 3900  
 - L 3780  
 - L 3660  
 - L 3540  
 - L 3420  
 - L 3300  
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 - L 1620  
 L 1500  
 - L 1380  
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 - L 1140  
 - L 1020  
 - L 900  
 - L 780  
 - L 660  
 - L 540  
 - L 420  
 - L 300  
 - L 180  
 - L 60  
 - L 0+00



- 1200 E  
 - 1080 E  
 - 960 E  
 - "E" B.L.  
 - 840 E  
 - 720 E  
 - 600 E  
 - 480 E  
 - 360 E  
 - 240 E  
 - 120 E  
 - 0+00 B.L.  
 - 120 W  
 - 240 W  
 - 360 W  
 - 480 W  
 - 600 W



**LEGEND**

- ANOMALOUS 100 - 1000 ppm 29 Samples
- TRANSITION 80 - 99 ppm 22 Samples
- BACKGROUND < 79 ppm 715 Samples
- TRANSITION
- ANOMALOUS

**NOTE:** ONLY TRANSITION AND ANOMALOUS VALUES PLOTTED.



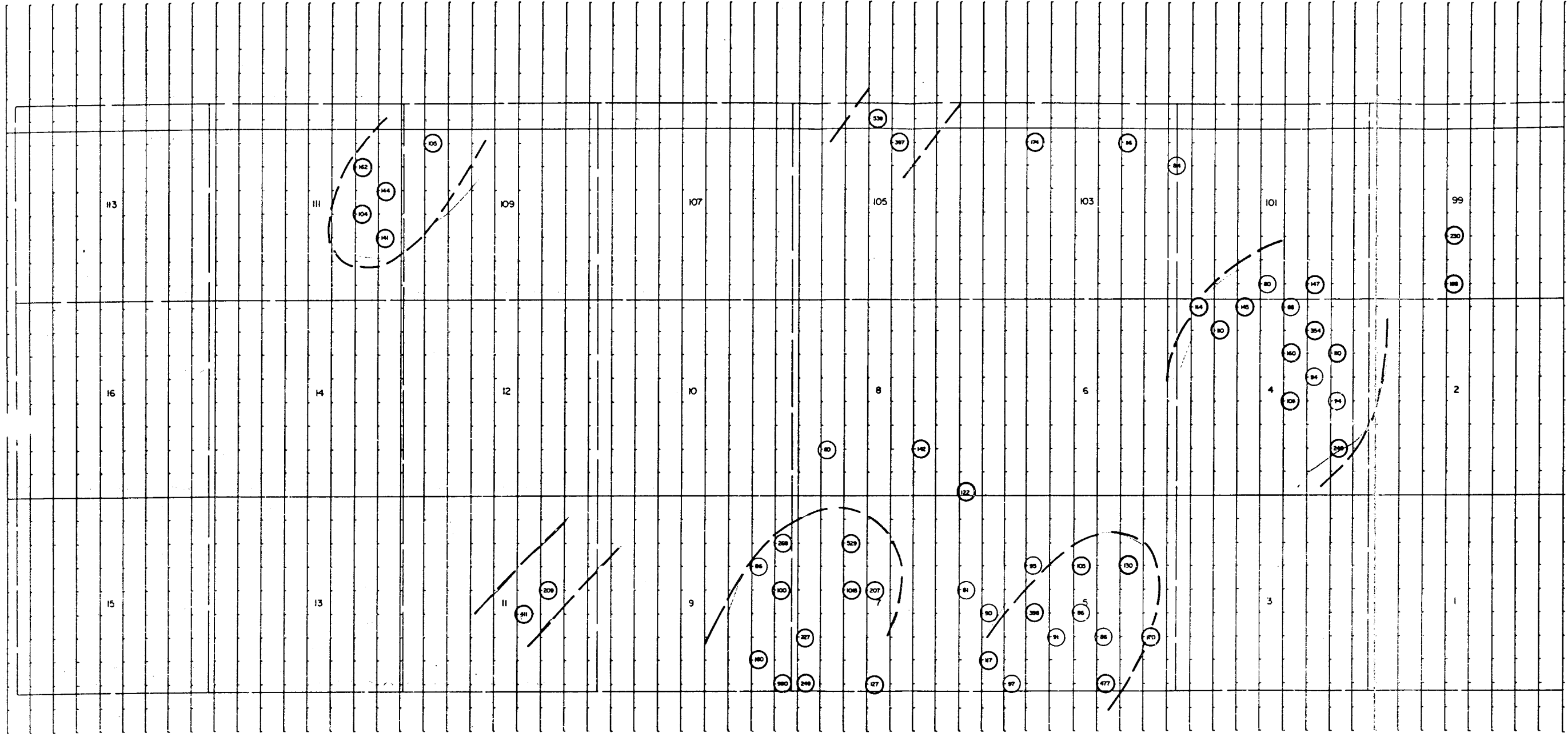
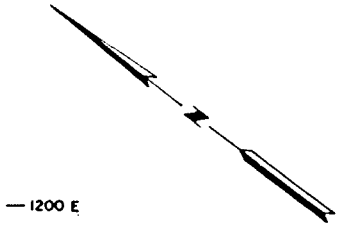
HERDIS INTERNATIONAL CANADA INC.

**XL CLAIMS  
 GEOCHEMICAL SURVEY  
 CHROMIUM IN SOILS (ppm)**

DAWSON MINING DISTRICT YUKON TERRITORY

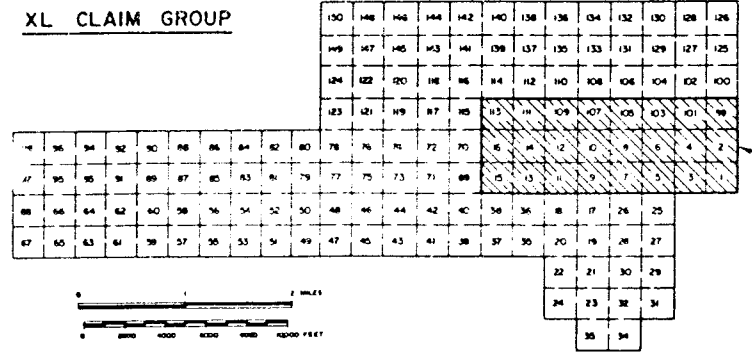
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 DRAWN BY R.D.H. HOLDINGS LTD DWG No

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 - L 3540  
 - L 3420  
 - L 3300  
 - L 3180  
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 - L 1140  
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 - L 540  
 - L 420  
 - L 300  
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 - L 60  
 - L 0+00

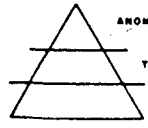
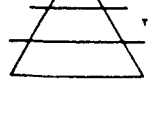
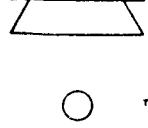




- 1200 E  
 - 1080 E  
 - 960 E  
 - 840 E  
 - 720 E  
 - 600 E  
 - 480 E  
 - 360 E  
 - 240 E  
 - 120 E  
 - 0+00 B.L.  
 - 120 W  
 - 240 W  
 - 360 W  
 - 480 W  
 - 600 W

**XL CLAIM GROUP**



**LEGEND**

- 
 ANOMALOUS 100 - 108 ppm 40 Samples
- 
 TRANSITION 80 - 98 ppm 14 Samples
- 
 BACKGROUND < 79 ppm 72 Samples
- 
 TRANSITION
- 
 ANOMALOUS

**NOTE:** ONLY TRANSITION AND ANOMALOUS VALUES PLOTTED.



HERDIS INTERNATIONAL CANADA INC.  
 XL CLAIMS  
 GEOCHEMICAL SURVEY  
 NICKEL IN SOILS (ppm)  
 DAWSON MINING DISTRICT YUKON TERRITORY  
 SURVEY BY MANN CONSULTANTS LTD DATE SEPTEMBER 7, 1964  
 DRAWN BY K.D.H. HOLDINGS LTD DWG No

APPENDIX III

ACME LAB ASSAY CERTIFICATES

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

DATE RECEIVED: AUG 1984

DATE REPORT MAILED: *Aug 21/84*

GEOCHEMICAL ICP ANALYSIS

500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS APPLICABLE FOR MM, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, V, SI, ZP, CE, SR, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
SAMPLE TYPE: PULP. ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Schell* DEAN TOYE, CERTIFIED B.C. ASSAYER

MANNY PROJECT # DAWSON FILE # 84-2226 R PAGE 1

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU# PPM
34+80N 4+80W	1	19	15	46	.2	11	17	28	5
34+80N 4+20W	1	10	11	30	.2	12	10	20	5
34+80N 3+60W	1	13	15	34	.3	10	11	17	5
34+80N 3+00W	1	11	12	36	.2	11	12	23	5
34+80N 2+40W	1	20	11	45	.1	8	20	38	5
34+80N 1+80W	1	17	15	44	.1	9	16	29	5
34+80N 1+20W	1	17	13	51	.4	14	20	30	10
34+80N 0+60W	2	25	13	53	.5	14	24	40	5
33+60N 4+80W	1	14	12	53	.1	8	15	25	5
33+60N 4+20W	1	22	22	52	.2	10	19	38	5
33+60N 3+60W	1	12	15	30	.1	12	10	20	5
33+60N 3+00W	1	12	11	34	.2	7	14	28	5
33+60N 2+40W	1	12	12	28	.3	9	10	14	5
33+60N 1+80W	1	13	9	38	.1	12	13	23	10
33+60N 1+20W	3	26	11	66	.1	14	21	31	5
33+60N 0+60W	1	27	12	53	.2	16	23	33	5
32+40N 4+80W	1	20	18	63	.2	2	18	38	5
32+40N 3+60W	1	22	21	53	.1	8	20	33	10
32+40N 2+40W	1	20	9	47	.1	8	22	37	5
32+40N 1+20W	1	16	14	53	.2	11	18	28	5
31+80N 4+20W	1	18	22	56	.2	6	21	32	5
31+80N 3+00W	1	15	14	51	.2	9	19	36	5
31+80N 1+80W	1	16	10	44	.1	6	18	29	5
31+80N 1+20W	1	18	10	48	.1	8	20	31	5
31+80N 0+60W	1	33	12	51	.2	11	34	38	15
31+20N 4+80W	1	25	24	63	.3	5	33	61	5
31+20N 3+60W	2	24	28	55	.4	12	21	40	5
31+20N 2+40W	1	13	11	36	.3	9	14	23	5
30+60N 4+20W	1	17	17	47	.2	5	18	30	10
30+60N 3+00W	2	58	58	45	.9	10	56	32	5
30+60N 1+80W	1	17	15	50	.2	9	18	32	5
30+60N 0+60W	1	23	14	50	.3	4	28	44	5
30+00N 4+80W	1	21	14	48	.1	9	28	55	5
30+00N 3+60W	1	23	15	46	.2	10	20	29	5
30+00N 2+40W	1	9	26	24	.3	12	7	13	10
30+00N 1+20W	1	16	10	43	.2	6	21	41	5
29+40N 4+20W	1	16	9	46	.2	10	22	32	5
STD S-1/AU-0.5	85	121	114	182	31.7	112	150	62	500

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SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU# PPM
29+40N 3+00W	1	17	15	32	.1	5	16	26	5
29+40N 1+80W	1	16	15	46	.1	5	18	37	5
29+40N 0+60W	1	16	12	44	.1	2	20	35	5
28+80N 4+80W	1	30	13	65	.1	26	76	90	5
28+80N 3+60W	1	10	17	29	.1	5	9	19	5
28+80N 2+40W	1	11	15	41	.2	3	12	20	10
28+80N 1+20W	1	12	13	39	.2	4	12	21	5
28+20N 4+20W	1	21	9	47	.1	8	21	35	10
28+20N 3+00W	1	13	15	38	.1	5	12	19	5
28+20N 1+80W	1	9	18	30	.2	5	9	19	15
28+20N 0+60W	1	20	21	54	.2	4	16	29	5
27+60N 4+80W	1	25	13	60	.1	8	19	29	5
27+60N 3+60W	1	59	22	109	.2	27	44	59	5
27+60N 2+40W	1	14	18	44	.2	4	14	22	5
27+60N 1+20W	1	8	13	31	.1	2	9	19	5
27+00N 4+20W	1	13	11	37	.1	2	14	24	5
27+00N 3+00W	1	57	12	82	.1	46	411	431	5
27+00N 1+80W	1	14	24	37	.1	4	26	36	5
27+00N 0+60W	1	15	16	44	.1	6	14	23	5
26+40N 4+80W	1	16	8	45	.1	7	16	23	5
26+40N 2+40W	1	40	26	90	.3	32	209	189	5
26+40N 1+80W	1	16	14	45	.1	8	41	59	5
26+40N 1+20W	1	20	18	53	.2	3	18	25	5
25+80N 4+20W	1	20	9	37	.1	8	16	26	5
25+80N 3+00W	1	12	12	35	.1	6	14	22	5
25+80N 1+80W	1	15	10	48	.1	12	18	19	5
25+80N 0+60W	1	25	15	66	.1	18	61	81	5
25+20N 4+80W	1	18	9	50	.1	8	18	25	5
25+20N 3+60W	1	30	17	62	.1	9	26	31	5
25+20N 2+40W	1	22	8	51	.2	7	22	25	5
25+20N 1+20W	1	16	13	46	.2	7	17	22	5
24+60N 3+60W	1	16	17	42	.1	11	13	18	5
24+60N 3+00W	1	19	14	48	.2	6	15	23	5
24+60N 1+80W	1	12	9	31	.1	5	11	19	5
24+60N 0+60W	1	13	12	47	.1	11	15	21	15
24+40N 4+20W	1	19	16	49	.2	10	16	28	5
STD S-1/AU-0.5	88	122	115	183	31.7	107	151	63	500

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU# PFB
18+40N 3+00W	1	17	10	39	.2	8	16	18	5
18+40N 1+80W	1	16	16	39	.3	7	14	21	5
18+40N 0+60W	4	25	17	76	.4	15	23	28	5
18+40N 4+20W	1	19	9	44	.1	7	18	26	5
18+40N 3+00W	1	21	12	47	.1	14	17	21	5
18+40N 1+80W	1	22	9	47	.1	9	18	20	5
18+40N 0+60W	1	15	8	36	.1	5	13	16	5
18+80N 4+80W	1	21	10	44	.2	6	24	35	5
18+80N 3+60W	1	16	10	40	.1	2	15	21	5
18+80N 2+40W	1	16	10	47	.1	9	17	24	5
18+80N 1+20W	1	17	8	43	.1	8	16	19	5
18+20N 4+20W	1	15	8	41	.1	5	16	27	5
18+20N 3+00W	1	16	10	45	.1	11	16	22	5
18+20N 1+80W	1	18	5	32	.1	5	12	14	5
18+60N 4+80W	1	13	17	37	.1	18	12	16	5
18+60N 3+60W	1	12	5	41	.1	6	16	27	5
18+60N 2+40W	1	13	8	40	.1	4	14	21	5
18+60N 1+20W	1	15	10	45	.1	8	17	22	5
18+00N 4+20W	1	20	9	54	.2	36	180	93	5
18+00N 3+00W	1	8	5	42	.1	7	14	20	5
18+00N 1+80W	1	19	9	50	.1	9	86	84	5
18+00N 0+60W	1	23	12	51	.1	6	20	19	5
19+40N 4+80W	2	28	8	47	.1	2	990	945	5
19+40N 3+60W	1	23	10	65	.1	8	30	32	5
19+40N 2+40W	1	22	10	49	.2	7	100	103	5
19+40N 1+20W	1	42	12	66	.1	66	268	230	5
19+80N 4+80W	1	29	10	48	.1	3	249	102	5
19+80N 3+60W	1	49	13	39	.1	5	227	96	5
19+80N 2+40W	1	16	8	39	.1	9	17	21	5
19+80N 1+20W	1	19	10	45	.1	13	17	21	5
19+20N 4+80W	1	13	8	43	.1	6	16	25	5
19+20N 3+60W	1	15	10	43	.1	5	15	21	5
19+20N 2+40W	2	17	8	49	.2	6	16	17	5
19+20N 1+20W	1	16	9	75	.2	14	19	22	5
18+60N 4+80W	1	17	13	47	.1	13	19	24	5
18+60N 3+60W	1	15	10	47	.1	7	14	19	5
STD 5-1/AU-0.5	86	121	114	182	32.1	113	150	63	510

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU# PFB
18+60N 2+40W	2	61	8	36	.1	2	1018	1401	5
18+60N 1+20W	1	28	10	48	.1	65	529	547	5
18+00N 4+80W	1	14	8	43	.1	7	127	150	5
18+00N 3+60W	1	13	8	40	.1	5	40	55	5
18+00N 2+40W	1	19	8	47	.1	6	207	236	5
18+00N 1+20W	1	11	6	38	.1	2	28	37	5
17+40N 4+20W	1	19	10	54	.1	6	43	55	5
17+40N 3+00W	1	12	11	39	.1	3	23	39	5
17+40N 1+80W	1	16	10	48	.1	6	41	52	5
17+40N 0+60W	1	26	13	61	.1	6	61	61	5
16+80N 4+80W	1	17	8	53	.1	4	20	26	5
16+80N 3+60W	1	23	11	42	.1	6	30	29	5
16+80N 2+40W	1	12	5	40	.1	5	28	39	5
16+80N 1+20W	1	13	8	36	.1	4	15	19	5
16+20N 4+20W	1	14	10	48	.2	7	23	28	5
16+20N 3+00W	1	17	7	38	.1	7	18	20	5
16+20N 1+80W	1	18	8	53	.1	8	68	67	5
16+20N 0+60W	1	13	11	48	.1	2	64	56	5
15+60N 4+80W	1	16	11	41	.1	2	50	46	5
15+60N 3+60W	1	13	6	43	.1	6	55	45	5
15+60N 2+40W	1	19	9	55	.1	2	81	64	5
15+60N 1+20W	1	15	8	45	.1	2	41	36	5
15+00N 4+20W	1	16	9	51	.1	3	117	89	5
15+00N 3+00W	1	22	11	64	.1	5	90	72	5
15+00N 1+80W	1	16	8	45	.1	7	50	42	5
15+00N 0+60W	1	18	8	51	.1	4	30	32	5
14+40N 4+80W	1	11	7	40	.1	3	97	103	5
14+40N 3+60W	1	17	9	58	.1	2	70	54	5
14+40N 2+40W	1	19	9	48	.1	4	52	41	5
14+40N 1+20W	1	25	15	69	.1	8	46	42	5
13+80N 4+20W	1	15	11	44	.2	3	64	49	5
13+80N 3+00W	2	16	8	50	.1	2	398	305	5
13+80N 1+80W	1	14	10	52	.1	2	95	98	5
13+80N 0+60W	1	16	8	41	.1	3	36	35	5
13+20N 4+80W	1	12	10	38	.1	2	46	43	5
13+20N 3+60W	1	9	10	38	.1	3	91	97	5
13+20N 2+40W	1	18	12	50	.1	3	70	60	5
STD 5-1/AU 0.5	89	122	115	183	31.2	112	151	63	505

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU# PFB
13+20N 1+20W	1	24	10	32	.1	2	40	26	5
12+60N 4+20W	1	12	10	39	.1	7	60	42	5
12+60N 3+00W	1	19	13	59	.1	6	86	56	5
12+60N 1+80W	1	19	10	52	.1	6	105	62	5
12+60N 0+60W	2	22	11	43	.3	6	53	37	5
12+00N 4+80W	2	33	10	66	.2	11	477	261	5
12+00N 3+60W	1	12	10	43	.1	7	86	60	5
12+00N 2+40W	1	22	7	39	.1	8	50	29	5
12+00N 1+20W	1	17	11	38	.1	7	33	34	5
11+40N 4+20W	1	33	8	34	.2	2	48	40	5
11+40N 3+00W	1	8	6	28	.2	4	36	27	5
11+40N 1+80W	1	19	5	22	.1	3	130	43	5
11+40N 0+60W	1	12	8	40	.1	6	35	28	5
10+80N 4+80W	1	22	6	24	.1	5	30	35	5
10+80N 3+60W	1	17	10	50	.2	7	170	84	5
10+80N 2+40W	1	25	10	32	.1	5	38	22	5
10+80N 1+20W	1	20	12	48	.1	9	63	48	5
10+20N 4+20W	1	16	7	23	.1	3	49	44	10
10+20N 3+00W	1	18	10	51	.1	8	28	26	5
10+20N 1+80W	1	15	9	36	.1	7	15	18	5
10+20N 0+60W	1	19	9	37	.1	4	20	21	5
9+60N 4+80W	1	16	7	36	.1	3	25	33	5
9+60N 3+60W	1	20	10	40	.1	6	46	62	5
9+60N 2+40W	1	16	7	47	.1	4	35	37	5
9+60N 1+20W	1	15	9	35	.1	7	20	23	5
9+00N 4+20W	1	15	5	28	.1	4	20	27	5
9+00N 4+00W	1	16	8	38	.1	7	37	41	5
9+00N 1+80W	1	12	7	38	.1	4	20	22	5
9+00N 0+60W	1	24	10	47	.1	9	26	29	5
8+40N 4+80W	1	16	8	38	.1	5	37	56	15
8+40N 3+60W	1	17	10	37	.1	6	31	41	5
8+40N 2+40W	1	16	9	36	.1	8	28	33	5
8+40N 1+20W	1	19	6	43	.1	6	25	29	5
7+80N 4+20W	1	18	8	42	.1	6	23	33	5
7+80N 3+00W	1	14	5	36	.1	4	24	32	5
7+80N 1+80W	1	13	9	35	.1	8	23	32	15
7+80N 0+60W	1	13	8	36	.1	5	22	33	5
STD S-1/AU-0.5	86	121	114	182	31.9	112	150	63	510

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU# PFB
7+20N 4+80W	1	16	6	43	.1	10	17	26	5
7+20N 3+60W	1	19	9	44	.2	9	20	27	10
7+20N 2+40W	1	15	7	35	.1	11	30	47	5
7+20N 1+20W	1	13	8	38	.1	6	19	29	5
6+60N 4+20W	1	24	10	48	.2	8	20	25	10
6+60N 3+00W	1	22	11	44	.2	10	47	71	5
6+60N 1+80W	1	16	7	37	.1	5	23	28	5
6+60N 0+60W	1	14	5	41	.1	10	21	28	5
6+00N 4+80W	1	15	7	39	.1	6	23	38	5
6+00N 3+60W	1	30	9	64	.1	12	25	23	5
6+00N 2+40W	1	15	5	39	.1	8	31	44	15
6+00N 1+20W	1	14	7	40	.1	8	22	33	5
5+40N 4+20W	1	25	11	53	.1	10	22	30	5
5+40N 3+00W	1	24	7	35	.2	9	22	29	5
5+40N 1+80W	1	25	15	69	.1	23	42	51	5
5+40N 0+60W	1	16	7	39	.1	6	20	30	5
4+80N 4+80W	1	16	8	50	.1	14	19	23	5
4+80N 3+60W	1	13	10	46	.1	8	14	20	5
4+80N 2+40W	1	20	6	58	.2	10	20	23	5
4+80N 1+20W	1	12	7	39	.1	6	21	35	15
4+20N 4+20W	1	21	10	52	.1	12	20	23	5
4+20N 3+00W	1	19	5	65	.1	9	19	19	10
4+20N 1+80W	1	21	7	50	.1	11	27	33	10
4+20N 0+60W	1	16	8	40	.1	8	32	49	10
3+60N 4+80W	1	24	5	54	.1	10	21	20	5
3+60N 3+60W	1	14	5	41	.1	10	14	18	10
3+60N 2+40W	1	17	7	49	.1	9	19	22	10
3+60N 1+20W	1	20	16	58	.1	10	20	26	5
3+00N 4+20W	1	20	9	59	.1	14	18	20	10
3+00N 3+00W	1	15	9	44	.2	6	15	21	5
3+00N 1+80W	1	16	9	45	.1	10	15	21	5
3+00N 0+60W	1	10	4	25	.2	7	10	17	5
3+00N 0+00W	2	26	19	62	.2	11	21	22	5
2+40N 4+80W	1	20	7	42	.1	12	17	23	5
2+40N 3+60W	1	15	8	43	.1	9	14	19	15
2+40N 2+40W	1	16	5	43	.1	10	15	20	5
2+40N 1+20W	1	13	5	34	.1	6	15	19	5
STD S-1/AU 0.5	87	122	114	183	31.4	114	151	63	495

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU+ PPB
1+80N 4+20W	1	23	10	53	.2	9	21	24	5
1+80N 3+00W	1	16	7	48	.2	7	17	23	5
1+80N 1+80W	1	17	9	46	.2	6	18	23	5
1+80N 0+60W	1	24	12	53	.1	5	23	27	10
1+20N 4+80W	1	14	8	55	.2	10	18	23	10
1+20N 3+60W	1	14	9	44	.2	8	16	22	5
1+20N 2+40W	1	16	11	47	.1	7	18	22	5
1+20N 1+20W	1	15	9	41	.1	7	15	23	5
0+60N 4+80W	1	17	9	47	.1	9	17	23	5
0+60N 3+60W	1	20	11	43	.1	8	18	24	5
0+60N 2+40W	1	17	8	44	.2	7	17	24	5
0+60N 1+20W	1	18	9	38	.1	8	16	21	5
0+00N 4+20W	1	17	9	45	.1	10	17	25	5
0+00N 3+00W	1	17	8	42	.2	6	16	23	5
0+00N 1+80W	1	16	4	40	.1	6	15	20	5
0+00N 0+60W	1	12	7	43	.1	3	15	22	5
25+20N 0+00E	1	14	11	50	.1	9	29	43	5
25+20N 1+20E	1	9	15	33	.3	10	11	16	5
25+20N 2+40E	1	12	14	43	.1	11	15	24	5
25+20N 3+60E	1	13	9	42	.1	9	15	26	5
25+20N 4+80E	1	22	13	43	.1	9	20	26	5
25+20N 6+00E	1	24	9	53	.2	9	20	28	5
25+20N 7+20E	1	18	10	44	.1	7	17	25	5
25+20N 8+40E	1	13	10	39	.1	8	14	22	5
25+20N 9+60E	1	22	11	50	.1	18	19	24	5
24+60N 0+00E	1	11	6	32	.1	8	15	21	5
24+60N 0+60E	1	21	10	58	.1	14	37	40	5
24+60N 1+80E	1	5	16	17	.3	5	5	7	5
24+60N 3+00E	1	16	14	43	.1	12	15	22	5
24+60N 4+20E	1	23	11	50	.2	6	17	28	5
24+60N 5+40E	1	17	11	39	.1	11	14	24	5
24+60N 6+60E	1	12	9	36	.1	8	12	22	5
24+60N 7+80E	1	17	9	45	.1	8	17	28	5
24+60N 9+00E	1	16	9	40	.1	9	15	22	5
24+00N 0+00E	1	16	9	49	.1	15	16	22	10
24+00N 1+20E	1	19	12	59	.1	12	36	46	5
24+00N 2+40E	1	12	22	41	.1	9	13	18	5
STD S-1/AU 0.5	88	122	114	183	31.0	115	151	63	520

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU+ PPB
24+00N 4+20E	1	16	11	40	.2	7	15	22	5
24+00N 4+80E	1	9	12	30	.2	5	9	17	5
24+00N 6+00E	1	10	11	32	.1	9	10	16	5
24+00N 7+80E	1	19	12	50	.1	7	18	28	5
24+00N 8+40E	1	20	11	43	.1	7	18	22	5
24+00N 9+60E	1	15	11	39	.1	9	14	22	5
23+40N 0+00E	1	16	10	38	.1	9	13	18	5
23+40N 0+60E	1	17	9	40	.1	13	15	20	5
23+40N 1+80E	1	41	10	66	.2	11	36	51	5
23+40N 3+00E	1	1	1	1	.1	2	1	1	5
23+40N 4+20E	1	14	16	36	.2	9	12	17	5
23+40N 5+40E	1	9	11	25	.1	5	9	13	5
23+40N 6+60E	1	10	10	28	.1	2	10	18	5
23+40N 7+80E	1	25	12	57	.1	12	22	30	5
23+40N 9+00E	1	11	15	29	.2	5	9	13	5
22+80N 0+00E	1	20	13	43	.1	14	14	22	5
22+80N 1+20E	1	26	13	55	.1	9	23	25	5
22+80N 2+40E	4	67	19	124	.3	22	66	46	5
22+80N 3+60E	1	13	72	36	.4	12	11	12	5
22+80N 4+80E	1	6	10	35	.1	6	9	11	5
22+80N 6+00E	1	10	9	30	.1	5	11	17	5
22+80N 7+20E	1	13	10	37	.1	9	13	21	5
22+80N 8+40E	1	13	16	37	.2	7	12	16	5
22+80N 9+60E	1	14	15	37	.2	7	13	20	5
22+20N 0+00E	1	19	12	39	.1	11	15	21	5
22+20N 0+60E	1	16	8	38	.1	10	13	18	5
22+20N 1+80E	1	16	10	39	.1	13	15	19	5
22+20N 3+00E	1	52	10	57	.3	21	52	38	5
22+20N 4+20E	1	9	40	34	.5	9	8	11	5
22+20N 5+40E	1	8	18	38	.2	7	8	11	5
22+20N 6+60E	1	13	26	37	.2	17	11	16	5
22+20N 7+80E	1	16	9	45	.1	10	16	24	5
22+20N 9+00E	1	27	13	72	.1	12	21	21	5
21+60N 0+00E	1	19	13	41	.1	9	15	22	5
21+60N 1+20E	1	16	11	37	.1	10	14	18	5
21+60N 2+40E	1	13	10	30	.1	10	11	18	5
21+60N 3+60E	1	18	12	47	.1	7	17	22	5
STD S-1/AU-0.5	88	122	114	183	31.3	112	151	63	490

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU# PPB	SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AS PPM	NI PPM	CR PPM	AU# PPB
21+60N 4+80E	1	10	23	43	.2	11	11	15	5	16+80N 6+00E	2	22	8	46	.2	4	44	57	5
21+60N 6+00E	1	9	9	32	.2	7	9	15	5	16+80N 7+20E	1	26	9	51	.1	11	31	35	5
21+60N 7+20E	1	16	17	45	.1	9	14	17	5	16+80N 9+60E	1	18	6	49	.1	9	39	33	5
21+60N 8+40E	1	24	15	68	.1	8	20	26	5	16+20N 0+00E	1	14	9	45	.2	6	28	31	5
21+60N 9+60E	1	26	11	59	.1	5	20	22	5	16+20N 0+60E	1	17	11	41	.2	3	32	33	5
21+00N 0+00E	1	15	10	51	.2	7	14	20	5	16+20N 1+80E	1	18	9	47	.1	5	38	40	5
21+00N 0+60E	1	17	10	42	.1	7	14	20	5	16+20N 3+00E	1	17	10	46	.1	5	24	28	5
21+00N 1+80E	1	16	13	53	.1	8	17	24	5	16+20N 4+20E	1	19	9	41	.1	8	46	88	5
21+00N 3+00E	1	11	7	49	.1	5	12	20	5	16+20N 5+40E	1	31	12	65	.2	7	54	71	5
21+00N 4+20E	1	6	18	28	.3	6	6	9	5	16+20N 6+60E	1	24	9	48	.2	10	31	34	5
21+00N 5+40E	1	12	37	38	.3	8	11	16	5	16+20N 7+80E	1	14	8	53	.2	5	17	20	5
21+00N 6+60E	1	14	10	38	.1	6	15	17	5	16+20N 9+00E	1	17	7	50	.2	8	38	33	5
21+00N 7+80E	1	19	9	52	.1	8	19	22	5	9+60N 1+20E	1	14	7	36	.2	6	14	18	5
21+00N 9+00E	1	11	9	33	.1	6	11	15	5	9+60N 2+40E	1	22	9	43	.2	5	17	21	5
20+40N 0+00E	1	19	9	61	.1	6	19	20	5	9+60N 3+60E	1	17	10	38	.1	4	14	19	5
20+40N 1+20E	1	24	10	63	.1	8	21	21	5	9+60N 4+80E	2	25	9	55	.1	6	114	71	5
20+40N 2+40E	1	27	13	64	.1	8	23	22	5	9+60N 6+00E	1	12	9	36	.1	7	15	24	5
20+40N 3+60E	1	20	10	56	.1	7	19	19	5	9+60N 7+20E	1	15	8	35	.2	8	14	21	5
20+40N 4+80E	1	18	11	53	.1	7	18	19	5	9+60N 8+40E	1	19	5	39	.1	31	14	18	5
20+40N 6+00E	1	15	9	45	.2	6	15	20	5	9+60N 9+60E	1	17	10	39	.1	15	16	24	5
20+40N 7+20E	1	22	10	63	.1	8	21	24	5	8+40N 0+00E	1	11	7	29	.1	3	17	18	5
20+40N 8+40E	1	14	9	40	.1	8	14	17	5	8+40N 1+20E	1	14	7	37	.1	5	14	21	5
20+40N 9+60E	1	19	6	45	.2	9	18	23	5	8+40N 2+40E	1	13	9	32	.1	2	12	17	5
19+80N 0+00E	1	18	9	57	.1	8	16	19	5	8+40N 3+60E	1	17	5	37	.1	4	65	44	5
19+80N 0+60E	1	17	9	49	.1	5	17	19	5	8+40N 4+80E	2	13	8	34	.1	4	145	83	5
19+80N 1+80E	1	14	9	44	.1	5	15	20	5	8+40N 6+00E	1	12	7	34	.2	3	21	33	5
19+80N 3+00E	1	20	7	52	.1	4	17	19	5	8+40N 7+20E	1	20	7	38	.1	9	37	68	5
19+80N 4+20E	1	15	11	48	.1	8	16	19	5	8+40N 8+40E	1	24	7	46	.2	7	23	37	5
19+80N 5+40E	2	18	41	79	.5	13	14	16	5	8+40N 9+60E	1	17	7	37	.1	22	14	21	5
19+80N 6+60E	1	15	16	48	.2	7	15	20	5	2+40N 0+00E	3	22	16	66	.1	11	52	54	5
19+80N 7+80E	1	16	11	56	.1	8	17	19	5	2+40N 1+20E	2	17	11	49	.1	9	16	18	5
19+80N 9+00E	1	14	9	37	.1	6	14	18	5	2+40N 2+40E	1	12	7	55	.1	5	38	33	5
16+80N 0+00E	1	15	14	46	.1	6	23	25	5	2+40N 3+60E	1	14	5	44	.1	5	15	19	5
16+80N 1+20E	1	20	8	44	.1	6	142	92	5	2+40N 4+80E	1	14	5	36	.1	6	13	15	5
16+80N 2+40E	1	14	6	42	.1	4	26	34	5	2+40N 6+00E	1	14	7	33	.1	4	14	16	5
16+80N 3+60E	1	14	7	35	.1	9	15	23	5	2+40N 7+20E	1	9	5	29	.1	2	10	13	5
16+80N 4+80E	1	14	5	42	.2	5	25	40	5	2+40N 8+40E	1	18	4	23	.1	2	12	15	5
STD S-1/AU-0.5	86	122	114	182	31.1	104	150	63	500	2+40N 9+60E	1	12	5	36	.1	2	12	17	5
										STD S-1/AU-0.5	84	120	113	181	31.9	98	149	62	500

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

DATE RECEIVED: AUG 1984

DATE REPORT MAILED: *Aug 31/84*

GEOCHEMICAL ICP ANALYSIS

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

ASSAYER: *D. By* DEAN TOYE, CERTIFIED B.C. ASSAYER

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SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU* PPM
34+BON 0+00	2	16	12	50	.1	16	25	5
34+BON 1+20E	4	39	21	90	.2	27	26	5
34+BON 2+40E	1	28	9	63	.1	63	95	5
34+BON 3+60E	1	23	9	54	.1	23	35	5
34+BON 4+80E	1	25	11	57	.1	22	30	5
34+BON 6+00E	1	19	7	48	.1	15	23	5
34+BON 7+20E	1	25	8	53	.1	18	23	5
34+BON 8+90E	1	15	8	40	.1	13	17	5
34+BON 9+60E	1	15	10	44	.1	14	18	5
34+2ON 0+00	1	18	9	43	.1	16	21	5
34+2ON 0+60E	1	20	11	49	.1	19	25	5
34+2ON 1+80E	1	20	11	53	.1	23	31	5
34+2ON 3+00E	1	24	7	56	.1	35	51	5
34+2ON 4+20E	1	18	8	45	.1	16	20	5
34+2ON 5+40E	1	15	7	46	.1	15	20	5
34+2ON 6+60E	1	20	12	48	.1	17	20	10
34+2ON 7+80E	1	17	8	46	.1	15	16	5
34+2ON 9+00E	1	17	12	55	.1	16	23	5
33+6ON 0+00	2	23	12	55	.1	22	28	5
33+6ON 1+20E	2	16	13	50	.1	14	22	5
33+6ON 2+40E	1	24	10	54	.1	18	27	5
33+6ON 3+60E	1	17	12	52	.1	24	34	5
33+6ON 4+80E	1	18	7	47	.1	25	40	5
33+6ON 6+00E	1	18	8	48	.1	17	24	5
33+6ON 7+20E	1	20	7	50	.1	20	21	10
33+6ON 8+40E	1	20	10	51	.1	20	17	5
33+6ON 9+60E	1	18	6	49	.1	16	19	5
33+0ON 0+00	1	16	10	43	.1	16	20	5
33+0ON 0+60E	2	13	12	46	.2	15	22	5
33+0ON 1+80E	2	18	10	61	.1	17	20	5
33+0ON 3+00E	2	25	10	63	.2	20	22	5
33+0ON 4+20E	1	18	12	48	.1	20	25	5
33+0ON 5+40E	1	18	9	46	.1	19	30	5
33+0ON 6+60E	1	14	8	43	.1	19	36	10
33+0ON 7+80E	1	15	9	40	.1	16	28	5
33+0ON 9+00E	1	21	8	52	.1	19	20	10
32+4ON 0+00E	2	23	12	64	.1	25	25	5
STD S-1/AU-0.5	89	124	116	185	35.6	152	63	510

MANNY CONSULTANT FILE # 84-1875 R PAGE 2

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU* PPM
32+4ON 1+20E	1	19	10	47	.2	18	26	5
32+4ON 2+40E	2	21	12	63	.1	18	25	5
32+4ON 3+60E	2	27	11	59	.2	20	23	5
32+4ON 4+80E	1	20	7	51	.1	25	38	5
32+4ON 6+00E	1	16	11	47	.1	15	25	5
32+4ON 7+20E	1	13	13	42	.1	16	30	5
32+4ON 8+40E	1	25	12	56	.1	23	34	5
32+4ON 9+60E	1	21	11	54	.1	22	26	5
31+BON 0+00	1	26	11	55	.2	25	31	5
31+BON 0+60E	1	22	10	62	.1	20	25	5
31+BON 1+80E	1	21	11	55	.1	19	26	5
31+BON 3+00E	1	14	7	45	.1	14	21	5
31+BON 4+20E	1	18	8	56	.1	18	23	5
31+BON 5+40E	1	21	10	52	.1	24	32	5
31+BON 6+60E	1	19	8	49	.1	30	45	5
31+BON 7+80E	1	15	11	39	.2	16	27	5
31+BON 9+00E	1	16	6	43	.1	15	18	5
31+2ON 0+00	1	21	7	43	.1	21	25	5
31+2ON 1+20E	1	18	7	47	.1	17	22	5
31+2ON 1+40E	1	19	8	47	.1	17	25	5
31+2ON 3+60E	1	19	9	47	.1	17	23	5
31+2ON 4+80E	1	19	9	60	.1	20	27	5
31+2ON 6+00E	1	26	11	64	.1	26	35	5
31+2ON 7+20E	5	57	12	159	.2	104	84	5
31+2ON 8+40E	6	56	15	194	.1	162	138	5
31+2ON 9+60E	1	12	9	35	.1	15	26	5
30+6ON 0+00	1	12	9	38	.1	15	22	5
30+6ON 0+60E	1	17	10	44	.1	17	22	5
30+6ON 1+80E	1	12	12	44	.1	16	21	5
30+6ON 3+00E	1	18	7	45	.1	17	23	5
30+6ON 4+20E	1	12	4	27	.1	12	15	5
30+6ON 5+40E	1	13	7	55	.1	20	25	5
30+6ON 6+60E	5	55	14	105	.3	141	93	5
30+6ON 7+80E	6	53	19	178	.3	144	106	5
30+6ON 9+00E	2	21	11	72	.1	37	39	5
30+0ON 1+20E	1	13	9	38	.1	16	20	5
30+0ON 2+40E	1	21	14	53	.1	19	25	5
STD S-1/AU-0.5	90	121	113	181	33.9	149	62	540

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU# PPB
30+00N 3+60E	2	28	13	49	.1	23	22	5
30+00N 4+80E	2	21	12	52	.2	17	22	5
30+00N 6+00E	2	19	6	55	.1	19	23	5
30+00N 7+20E	2	31	6	55	.2	39	36	5
30+00N 8+40E	9	21	34	92	2.3	31	16	5
30+00N 9+60E	5	27	23	102	.7	35	24	5
29+40N 0+00	1	22	10	55	.1	28	35	5
29+40N 0+60E	1	10	10	36	.1	14	23	5
29+40N 1+80E	1	9	5	35	.1	13	19	5
29+40N 3+00E	1	20	9	67	.1	20	27	5
29+40N 4+20E	1	15	11	50	.1	16	18	5
29+40N 5+40E	2	18	11	51	.1	16	20	5
29+40N 6+60E	2	22	11	53	.1	20	29	5
29+40N 7+80E	2	19	5	65	.2	36	39	5
29+40N 9+00E	14	56	33	256	2.8	105	73	5
28+80N 0+00	1	20	12	52	.2	25	37	5
28+80N 1+20E	1	13	7	48	.1	19	25	5
28+80N 2+40E	1	24	9	54	.1	41	71	5
28+80N 3+60E	1	14	7	43	.1	17	21	5
28+80N 4+80E	1	29	12	64	.1	32	37	5
28+80N 6+00E	1	13	6	47	.1	16	23	5
28+80N 7+20E	2	24	6	67	.1	23	22	5
28+80N 8+40E	1	14	2	44	.5	12	8	5
28+80N 9+60E	6	37	73	128	5.1	36	105	5
28+20N 0+00	1	16	11	51	.1	25	38	5
28+20N 0+60E	1	15	9	51	.1	21	36	5
28+20N 1+80E	1	12	9	46	.1	14	21	5
28+20N 3+00E	1	15	5	51	.1	17	23	5
28+20N 4+20E	1	31	8	57	.2	42	51	5
28+20N 5+40E	1	22	6	49	.1	20	27	5
28+20N 6+60E	1	19	4	54	.1	21	23	5
28+20N 7+80E	2	18	7	64	.2	21	21	5
28+20N 9+00E	16	56	58	177	8.8	56	77	25
27+60N 0+00	1	14	16	56	.2	21	36	5
27+60N 1+20E	1	16	11	47	.1	16	26	5
27+60N 2+40E	1	15	5	40	.1	15	23	5
27+60N 3+60E	1	15	8	47	.1	17	24	5
STD S-1/AU-0.5	93	123	114	184	35.3	151	63	520

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU# PPB
27+60N 4+80E	1	20	9	46	.2	24	28	5
27+60N 6+00E	1	15	9	46	.1	18	24	5
27+60N 7+20E	3	13	10	62	.1	19	22	5
27+60N 8+40E	1	30	7	64	.1	27	21	5
27+60N 9+60E	18	57	74	186	8.5	56	70	5
27+00N 0+00	1	13	14	50	.1	20	35	5
27+00N 0+60E	1	14	11	44	.1	14	23	5
27+00N 1+80E	1	11	13	50	.1	12	24	5
27+00N 3+00E	1	11	13	39	.1	12	22	5
27+00N 4+20E	1	26	12	67	.2	25	29	5
27+00N 5+40E	1	19	11	50	.1	20	24	5
27+00N 6+60E	1	28	8	64	.1	30	26	5
27+00N 7+80E	1	17	11	61	.1	21	28	5
27+00N 9+00E	1	18	7	63	.1	21	22	5
27+00N 9+60E	4	27	37	104	1.2	32	48	30
26+40N 0+00	1	16	17	54	.2	22	37	5
26+40N 1+20E	1	11	9	43	.1	13	22	5
26+40N 2+40E	1	12	13	49	.1	13	23	5
26+40N 3+60E	1	14	13	46	.1	14	24	5
26+40N 4+80E	1	19	6	41	.1	18	25	5
26+40N 6+00E	1	19	6	36	.1	17	21	5
26+40N 7+20E	1	20	9	48	.1	19	24	5
26+40N 8+40E	1	18	7	48	.1	22	35	5
26+40N 9+60E	5	17	12	79	.4	22	26	5
25+80N 0+00	1	15	14	49	.1	19	31	5
25+80N 0+60E	1	8	14	34	.1	11	18	5
25+80N 1+80E	1	12	12	42	.1	15	23	5
25+80N 3+00E	1	16	9	44	.1	18	27	5
25+80N 4+20E	1	13	9	45	.1	16	25	5
25+80N 5+40E	1	14	7	44	.1	15	23	5
25+80N 6+60E	1	20	7	49	.1	18	27	5
25+80N 7+80E	1	25	8	57	.1	24	29	5
25+80N 9+00E	6	22	12	72	.2	25	30	5
19+20N BL	1	8	3	25	.1	10	21	5
19+20N 1+20E	1	19	8	51	.1	80	89	5
19+20N 2+40E	1	15	9	51	.1	58	80	5
19+20N 3+60E	1	26	12	73	.1	72	82	5
19+20N 4+80E	1	17	5	50	.1	34	52	5
STD S-1/AU-0.5	90	124	116	184	34.4	151	64	520

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU+ PPB
19+20N 6+00E	3	29	18	83	.1	37	49	5
19+20N 7+20E	1	17	9	56	.1	34	44	5
19+20N 8+40E	1	18	10	56	.1	19	25	5
19+20N 9+60E	1	17	6	61	.1	17	21	5
18+60N BL	1	32	12	68	.2	78	74	5
18+60N 1+20E	1	24	8	71	.1	54	78	5
18+60N 2+40E	1	16	28	114	.2	26	29	5
18+60N 3+60E	1	15	9	56	.1	47	62	5
18+60N 4+80E	1	11	5	42	.1	30	55	5
18+60N 6+00E	1	41	7	54	.4	61	77	5
18+60N 7+20E	1	21	8	64	.2	22	104	5
18+60N 8+40E	1	14	8	49	.1	43	50	5
18+60N 9+60E	1	16	8	59	.3	20	25	5
18+00N 0+00	1	19	8	61	.1	24	25	5
18+00N 1+20E	1	11	7	50	.1	43	49	5
18+00N 2+40E	1	22	8	57	.1	50	53	5
18+00N 3+60E	1	20	8	60	.1	41	52	5
18+00N 4+80E	1	31	4	60	.1	75	129	5
18+00N 6+00E	1	22	9	50	.1	35	66	5
18+00N 7+20E	1	21	4	18	.3	14	27	5
18+00N 8+40E	1	14	7	114	.1	17	25	5
18+00N 9+60E	1	15	2	32	.1	539	361	5
17+40N 0+00	1	16	7	50	.1	59	54	5
17+40N 0+60E	1	14	8	49	.1	46	48	5
17+40N 1+80E	1	17	7	48	.1	34	45	5
17+40N 3+00E	1	26	5	62	.1	30	32	5
17+40N 4+20E	1	36	6	63	.2	31	51	5
17+40N 5+40E	1	26	6	57	.2	57	69	5
17+40N 6+60E	1	15	14	83	.1	23	20	5
17+40N 7+80E	1	15	14	83	.2	24	19	5
17+40N 9+00E	1	16	6	46	.1	397	127	5
15+60N 0+00	1	24	6	59	.1	122	94	5
15+60N 1+20E	1	13	6	39	.1	29	30	5
15+60N 2+40E	1	14	9	45	.1	29	33	5
15+60N 3+60E	1	12	5	41	.1	26	35	5
15+60N 4+80E	1	17	10	32	.1	30	61	5
15+60N 6+00E	1	15	7	55	.2	17	26	5
STD S-1/AU-0.5	88	124	115	184	35.2	151	63	510

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU+ PPB
15+60N 7+20E	1	17	8	51	.2	20	24	5
15+60N 8+40E	1	14	9	47	.1	17	23	5
15+00N 0+00	1	18	11	34	.2	21	27	5
15+00N 0+60E	1	16	12	51	.1	26	30	5
15+00N 1+80E	1	21	13	55	.1	32	35	5
15+00N 3+00E	1	15	13	54	.1	48	51	5
15+00N 4+20E	1	16	10	48	.1	47	51	5
15+00N 5+40E	1	16	10	60	.1	22	29	5
15+00N 6+60E	1	10	6	43	.2	13	20	5
15+00N 7+80E	1	11	8	38	.1	12	19	5
15+00N 9+60E	1	19	13	54	.1	22	27	5
14+40N 0+00	1	15	9	48	.3	26	31	5
14+40N 1+20E	1	14	8	54	.2	65	58	5
14+40N 2+40E	1	13	8	50	.1	58	50	5
14+40N 3+60E	1	11	7	45	.1	40	44	5
14+40N 4+80E	1	20	13	62	.1	22	27	5
14+40N 6+00E	1	18	12	55	.1	21	24	5
14+40N 7+20E	1	18	11	57	.2	22	25	5
14+40N 8+40E	1	15	10	45	.1	16	22	5
14+40N 9+60E	1	16	5	48	.1	26	29	5
13+80N 0+00	1	19	10	52	.1	30	32	5
13+80N 0+60E	1	15	12	48	.1	21	28	5
13+80N 1+80E	1	10	9	49	.1	34	38	5
13+80N 3+00E	1	13	9	56	.2	42	40	5
13+80N 4+20E	1	19	10	56	.1	21	24	5
13+80N 5+40E	1	17	10	55	.1	20	26	5
13+80N 6+60E	1	18	8	52	.1	19	24	5
13+80N 7+80E	1	30	11	60	.1	26	29	5
13+80N 9+00E	1	46	9	76	.2	174	150	5
13+20N 0+00	1	18	10	54	.1	31	34	5
13+20N 1+20E	1	21	8	64	.1	23	25	5
13+20N 2+40E	1	21	13	63	.2	36	39	5
13+20N 3+60E	1	12	5	50	.1	15	21	5
13+20N 4+80E	1	21	10	57	.1	25	30	5
13+20N 6+00E	1	19	10	62	.1	18	25	5
13+20N 7+20E	1	22	10	52	.1	19	28	5
13+20N 8+40E	1	20	9	44	.1	18	32	5
STD S-1/AU-0.5	85	122	114	181	34.1	149	63	530

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SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU# PPB
12+60N 0+00	2	18	12	46	.2	25	28	5
12+60N 0+60E	1	11	8	39	.1	14	19	5
12+60N 1+80E	2	10	4	41	.1	13	19	5
12+60N 3+00E	1	11	6	44	.1	15	19	5
12+60N 4+20E	2	20	7	57	.1	38	33	5
12+60N 5+40E	1	20	6	50	.1	20	31	5
12+60N 6+60E	1	29	7	64	.1	25	50	5
12+60N 7+80E	1	19	9	46	.1	21	31	5
12+60N 9+00E	1	23	11	53	.1	27	24	5
12+00N 0+00	2	18	6	47	.1	59	44	5
12+00N 1+20E	1	20	6	41	.3	42	31	5
12+00N 2+40E	1	12	8	40	.1	19	22	5
12+00N 3+60E	1	18	9	45	.1	25	35	5
12+00N 4+80E	1	15	10	48	.1	28	35	5
12+00N 6+00E	1	16	9	43	.1	18	33	5
12+00N 7+20E	1	20	8	48	.1	19	25	5
12+00N 8+40E	1	18	11	43	.1	16	27	5
12+00N 9+60E	1	17	9	44	.1	21	32	5
11+40N 0+00	1	18	11	49	.1	26	28	5
11+40N 0+60E	1	18	5	50	.1	32	30	5
11+40N 1+80E	2	19	12	44	.1	18	21	5
11+40N 3+00E	1	16	5	47	.1	25	24	5
11+40N 4+20E	1	17	10	48	.1	22	30	5
11+40N 5+40E	1	18	6	47	.1	20	35	5
11+40N 6+60E	1	21	9	46	.1	18	30	5
11+40N 7+80E	1	22	11	54	.1	18	15	5
11+40N 9+00E	1	15	9	35	.1	116	133	5
10+80N 0+00	1	16	7	48	.1	40	37	5
10+80N 1+20E	1	19	6	58	.1	35	32	5
10+80N 2+40E	1	14	8	44	.1	24	28	5
10+80N 3+60E	1	19	6	46	.2	18	26	5
10+80N 4+80E	1	15	5	44	.1	24	30	5
10+80N 6+00E	1	37	8	51	.1	29	48	5
10+80N 7+20E	1	18	10	43	.1	16	30	5
10+80N 8+40E	1	18	7	44	.1	19	27	5
10+80N 9+60E	1	17	8	39	.1	17	23	5
10+20N BL	2	16	8	46	.1	63	96	5
STD S-1/AU-0.5	89	123	116	183	34.7	151	62	520

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PAGE

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU# PPB
10+20N 1+20E	1	16	7	49	.1	17	23	5
10+20N 2+40E	2	25	8	59	.2	26	27	5
10+20N 3+60E	1	19	6	56	.2	20	23	5
10+20N 4+80E	1	20	8	49	.2	52	49	5
10+20N 6+00E	1	25	6	45	.1	51	84	5
10+20N 7+20E	1	19	8	42	.1	18	23	5
10+20N 8+40E	1	23	10	52	.1	84	123	5
10+20N 9+60E	1	20	7	45	.1	17	24	5
9+00N 0+00	1	21	6	49	.1	21	27	5
9+00N 0+60E	1	19	6	54	.1	18	22	5
9+00N 1+80E	1	22	8	54	.1	17	23	5
9+00N 3+00E	1	16	5	45	.1	55	41	5
9+00N 4+20E	1	20	5	46	.1	110	63	5
9+00N 5+40E	1	20	7	49	.1	27	37	5
9+00N 6+60E	1	30	6	57	.2	58	80	5
9+00N 7+80E	1	18	3	45	.1	30	43	5
9+00N 9+00E	1	17	2	45	.1	20	28	5
7+80N BL	1	19	3	48	.2	20	23	5
7+80N 0+60E	1	15	8	45	.1	16	24	5
7+80N 1+80E	1	14	4	38	.1	22	28	5
7+80N 3+00E	1	12	8	37	.1	37	39	5
7+80N 4+20E	1	11	9	39	.1	70	76	5
7+80N 5+40E	1	26	8	56	.1	80	100	5
7+80N 6+60E	1	32	1	59	.2	41	57	5
7+80N 7+80E	1	23	2	45	.1	35	46	5
7+80N 9+00E	1	14	4	43	.1	17	25	5
7+20N BL	1	14	2	42	.1	23	30	5
7+20N 1+20E	1	16	4	42	.1	22	28	5
7+20N 2+40E	1	13	6	43	.1	106	88	5
7+20N 3+60E	1	10	4	39	.1	160	106	5
7+20N 4+80E	1	10	6	39	.1	88	61	5
7+20N 6+00E	1	20	5	50	.1	68	76	5
7+20N 7+20E	1	26	3	55	.1	37	52	5
7+20N 8+40E	1	22	3	56	.1	26	30	5
6+60N 0+00	1	22	6	39	.1	28	40	5
6+60N 0+60E	1	11	6	42	.2	18	26	5
6+60N 1+80E	1	14	2	36	.1	55	61	5
STD S-1/AU-0.5	89	124	115	184	34.0	151	63	540

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU# PPB
6+60N 3+00E	1	15	5	53	.2	94	56	5
6+60N 4+20E	1	11	2	37	.1	354	269	5
6+60N 5+40E	1	14	7	50	.1	147	112	5
6+60N 6+60E	1	36	6	68	.2	70	66	5
6+60N 7+80E	1	19	7	49	.1	27	41	5
6+60N 9+00E	1	18	6	52	.1	21	29	5
6+00N BL	1	31	14	64	.1	47	49	5
6+00N 1+20E	1	23	9	46	.2	249	108	5
6+00N 2+40E	1	20	11	56	.2	94	61	5
6+00N 3+60E	1	14	11	57	.2	110	71	5
6+00N 4+80E	1	18	8	73	.1	63	38	5
6+00N 6+00E	1	19	5	56	.1	69	35	5
6+00N 7+20E	1	20	7	51	.1	33	38	5
6+00N 8+40E	1	21	6	52	.1	26	33	15
6+00N 9+60E	1	20	9	53	.1	32	45	5
5+40N 0+00	1	20	6	52	.2	28	38	5
5+40N 0+60E	1	19	10	53	.1	51	48	5
5+40N 1+80E	1	24	10	47	.1	66	48	5
5+40N 3+00E	1	24	13	66	.1	43	33	5
5+40N 4+20E	1	27	9	73	.2	32	26	10
5+40N 5+40E	1	14	6	39	.1	17	20	5
5+40N 6+60E	1	16	4	47	.1	21	29	5
5+40N 7+80E	1	18	8	52	.1	20	28	5
5+40N 9+00E	1	22	8	62	.1	26	32	5
4+80N 0+00	1	17	6	69	.1	24	28	5
4+80N 1+20E	1	16	9	50	.1	19	24	5
4+80N 2+40E	1	18	7	55	.1	44	35	5
4+80N 3+60E	1	22	10	59	.2	77	41	5
4+80N 4+80E	1	18	7	54	.1	26	25	5
4+80N 6+00E	1	12	5	43	.1	16	21	5
4+80N 7+20E	1	16	7	49	.1	21	28	5
4+80N 8+40E	1	18	9	55	.1	21	27	5
4+80N 9+60E	1	9	6	32	.1	11	19	5
4+20N BL	1	20	7	55	.1	21	22	5
4+20N 0+60E	1	19	7	55	.1	20	21	5
4+20N 1+80E	1	10	7	38	.1	14	19	5
4+20N 3+00E	1	13	8	51	.1	23	26	5
STD S-1/AU-0.5	86	122	113	181	34.3	148	62	520

SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU# PPB
4+20N 4+20E	1	17	8	51	.1	22	20	5
4+20N 5+40E	1	10	5	36	.1	13	15	5
4+20N 6+60E	1	16	6	48	.1	25	23	5
4+20N 7+80E	1	14	7	44	.1	18	20	5
4+20N 9+00E	1	13	7	41	.1	17	22	5
3+60N BL	1	14	10	46	.1	20	20	5
3+60N 1+20E	1	14	7	49	.1	23	26	5
3+60N 2+40E	1	16	6	33	.1	16	17	5
3+60N 3+60E	1	14	5	52	.1	16	21	5
3+60N 4+80E	1	16	8	46	.1	19	16	5
3+60N 6+00E	1	11	5	41	.1	20	19	5
3+60N 7+20E	1	13	3	43	.1	57	24	5
3+60N 8+40E	1	21	8	70	.2	29	22	5
3+60N 9+60E	1	19	5	58	.1	20	20	5
3+00N 0+60E	1	17	7	52	.1	30	25	5
3+00N 1+80E	1	18	5	55	.1	31	28	5
3+00N 3+00E	1	20	9	71	.1	28	25	5
3+00N 4+20E	1	23	8	53	.3	20	21	5
3+00N 5+40E	1	21	8	49	.1	188	147	5
3+00N 6+60E	1	14	5	36	.1	230	138	5
3+00N 8+00E	1	17	4	28	.2	74	25	5
1+80N 0+00	1	20	12	40	.1	18	22	5
1+80N 0+60E	1	8	6	27	.2	11	14	5
1+80N 3+00E	1	26	6	26	.2	17	9	5
1+80N 4+20E	1	8	7	27	.1	11	16	5
1+80N 5+40E	1	15	7	43	.1	16	18	5
1+80N 6+60E	1	14	5	27	.2	13	13	5
1+80N 9+00E	1	19	11	45	.1	17	23	5
1+20N 0+00	1	18	16	82	.1	31	23	5
1+20N 1+20E	1	10	6	42	.1	25	24	5
1+20N 2+40E	1	10	8	42	.1	24	23	5
1+20N 3+60E	1	12	5	42	.1	18	20	5
1+20N 4+80E	1	10	8	26	.1	11	15	5
1+20N 6+00E	1	10	3	32	.1	11	15	5
1+20N 7+20E	1	16	6	35	.1	15	17	5
1+20N 8+40E	1	16	7	46	.2	17	21	5
STD S-1/AU-0.5	88	124	114	183	35.1	150	63	540

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SAMPLE#	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CR PPM	AU# PPB
1+20N 9+60E	1	13	4	32	.4	11	15	5
0+60N BL	1	34	12	50	.4	22	24	5
0+60N 0+60E	1	17	7	44	.2	17	20	5
0+60N 1+80E	1	11	4	42	.1	21	21	5
0+60N 3+00E	1	11	2	42	.1	20	21	5
0+60N 4+20E	1	11	7	35	.1	13	18	5
0+60N 5+40E	1	10	3	34	.1	13	16	5
0+60N 6+60E	1	10	2	35	.1	11	17	5
0+60N 7+80E	1	16	3	26	.2	14	11	5
0+00N 0+00	1	18	5	52	.1	19	23	5
0+00N 0+60E	1	20	6	46	.1	17	21	5
0+00N 1+20E	1	15	5	49	.1	28	31	5
0+00N 1+80E	1	11	1	48	.1	39	32	5
0+00N 2+40E	1	11	1	60	.1	24	19	5
0+00N 3+00E	1	12	5	49	.1	23	21	5
0+00N 3+60E	1	12	1	34	.1	14	17	5
0+00N 4+20E	1	13	4	46	.1	15	18	5
0+00N 4+80E	1	12	5	39	.1	14	16	5
0+00N 5+40E	1	12	2	32	.1	14	16	5
0+00N 6+00E	1	20	5	49	.1	21	18	5
0+00N 6+60E	1	13	3	27	.2	11	13	5
0+00N 7+20E	1	14	4	33	.2	15	16	5
0+00N 7+80E	1	22	6	46	.2	21	21	5
0+00N 8+40E	1	22	4	48	.2	22	23	5
0+00N 9+00E	1	21	5	47	.1	20	20	5
STD S-1/AU-0.5	90	123	114	183	34.5	151	63	530

APPENDIX IV

DISCUSSION AND INTERPRETATION  
OF RESULTS FROM  
MAGNETIC AND GEOCHEMICAL SURVEYS

DISCUSSION AND INTERPRETATION OF RESULTS FROM  
MAGNETIC AND GEOCHEMICAL PROGRAM BY D. MARK

The following is a preliminary discussion of the results of the magnetic and soil geochemistry surveys on claims XL1 to 150 in the Dawson Mining Division, Yukon Territory

The objective of the work was to locate lode gold deposits as the source of the placer gold located downstream from the property and mined during the Klondike gold rush.

Only 24 of the 150 claims were covered for the soil geochemistry survey, and only 16 of these for the magnetic survey.

The purpose of the magnetic survey was to assist in mapping geology since much of the property is overburden covered and there are few outcrops.

The established survey lines on the property run in a northeast-southwest direction with the line separation at 60 m.

The magnetic readings were taken every 60 m on the survey lines and the data was subsequently diurnally corrected, plotted and contoured.

The soil samples were picked up every 60 m on the same lines. They were then tested for lead, zinc, silver, copper, molybdenum and gold by Acme Analytical Laboratories of Vancouver. Since gold in soils can be quite localized and since the samples were taken every 60 m, a relatively large distance, the samples were also tested for the other metals mentioned above as these metals can be pathfinders for gold. Nickel and chromium were also tested when Acme noted that these two metals were highly anomalous in the soils.

Only the transition and anomalous results for the seven metals were plotted, each metal on its own map. The transition results (a term to denote results that are in between background and anomalous) were circled by a light circle, and the anomalous results by a heavy circle.

The strongest and most prominent feature of the magnetic survey is a magnetic high located on the southern part of the survey area. It is east-west trending and reaches a high of 61,011 gam-

mas with the background in the area of the high being about 57,400 gammas. This anomaly was picked up by the government airborne magnetic survey which shows the high to extend somewhat further west of the survey area. The western end of the airborne magnetic high correlates directly with foliated serpentinite as shown on the Indian and Northern Affairs Canada Map for the area (Bedrock Geology and Mineraliation of the Klondike Area [West], Exploration and Geological Services Division, Whitehorse, Yukon). Therefore, undoubtedly, the whole anomaly reflects a body of the serpentinite trending in an east-west direction. It is at least 1,000 m long and open to the west. Though the anomaly is much wider, the width of the causative source, the serpentinite, is about 100 m.

The anomalous low on the north side of the anomaly is related to the high and is caused by the dipole effect related to highly magnetic sources.

A small anomalous high on the east side of the survey area on line 1440 could be caused by a body of serpentinite as well, though much smaller than the one causing the major anomaly.

On the north side of the survey area is another magnetic high trending east-west. It is open on the east side of the survey area as well as the west side. This anomaly has an amplitude barely above the background and therefore the writer feels the causative source is not likely serpentinite, but more likely meta-volcanics which are known to occur in the area. Though the anomaly is several hundred meters wide, it is doubtful that the causative source is this wide.

On the southern part of the survey area, the background is about 57,400 gammas. As one goes north, the background gradually increases to 57,800 gammas. Any of the outcrops located in the survey area are either green chlorite schist, a little more prominent to the south, or sericite schist, a little more prominent to the north. The change in magnetic background, therefore, could be due to a small change in the rock-type. Another possible cause is a magnetic rock-type, such as basic volcanics, occurring at depth on the northern part of the survey area.

On the soil geochemistry survey, two main anomalous zones were located. Both occur on the northern part of the survey area and appear to be related to the low-amplitude magnetic high that, as discussed above, could be caused by meta-volcanics. Also both strike in an east-west direction, as do both of the magnetic highs.

The more interesting anomalous zone occurs on the northern part of the magnetic high and on its eastern edge. It appears to be at least 400 to 500 m long and is open to the east. It is extremely anomalous in silver (up to 8.8 ppm) and quite anomalous in molybdenum, zinc, lead and copper. There are also anomalous values in nickel and chromium.

The second zone occurs a few hundred meters to the south of the low-amplitude magnetic high. This zone appears to be at least 1,500 m long, is open on the west side of the survey area and is narrower than the above-mentioned soil geochemistry anomaly. This zone is anomalous in silver, lead, zinc and copper. It also contains a few anomalous values in nickel, chromium and molybdenum. Though this is a definite anomalous zone, the values are not as anomalous as that in the other soil geochemistry high.

Both of these anomalies contain very little in anomalous results for gold. Considering that much placer gold was mined on the property as well as downstream to the east, it seems quite probable that gold mineralization occurs on the property. The lack of gold results in the soil geochemistry could be due to any or all of the following reasons:

1. According to F. Marshall Smith, P.Eng., consulting geologist and geochemist, the high chromium in the soils can prevent the gold from being seen in soil tests, even though it may occur in anomalous amounts.
2. The spacing of the soil samples is relatively large. The mobility of gold in soils is quite low.
3. In the lab, the samples were sieved to -80 mesh. Therefore, coarser gold (necessary for placer deposits) may have been sieved out.
4. Clay deposits are noted throughout the survey area, some to

the north, but much more to the south. This can retard metals and metal ions from reaching the surface.

In addition to the two above-noted soil geochemistry anomalies, four areas anomalous in nickel and chromium were also discovered. This was quite accidental, since the prime objective was to locate lode gold mineralization. The four areas are as follows, listed in order of exploration interest.

Area 1 is located on the west side of the survey area on the boundary of XL 7 and 9 claims. This anomalous zone is open to the west but is at least 400 m long. It reaches a high of 1,018 ppm in nickel and 945 ppm in chromium. These results are very high considering the background in both metals is well below 100 ppm (probably about 40 to 50 ppm).

Area 2 occurs principally on XL 4 claim. It also correlates directly with the magnetic high, and therefore, probably, a body of serpentinite. This is not surprising since nickel-chromium mineralization often occurs with ultramafics, such as serpentinite. This anomalous zone reaches a high of 354 ppm nickel and 269 ppm chromium. The size is about 300 by 500 meters.

Area 3 occurs on the XL 5 claim. It is open to the west but has a minimum length of 300 m. The magnetic survey did not cover this area but the nickel chromium anomaly occurs on strike of the main magnetic high. Therefore this anomaly is also probably related to serpentinite. It reaches a high of 477 ppm nickel and 305 ppm chromium.

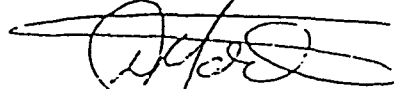
On the XL 105 claim occurs the fourth anomalous area in nickel-chromium. This area contains only two anomalous samples but both are very high, and it occurs on the edge of the survey area. The nickel is as high as 539 ppm, and the chromium, 361 ppm.

In conclusion, the results of the work to date are considered very encouraging. Though the nickel-chromium results are of exploration interest worthy of follow-up work, it is felt the prime interest should continue to be lode gold. As a result the writer considers the multi-element anomaly located on the northern part of the low-amplitude magnetic high centered on line 2940 to be a priority. There is an excellent chance for locating mineralization in this area. Also of strong interest is the second multi-element anomaly located south of the low-amplitude magnetic high.

Further exploration is recommended as follows:

1. Soil sampling should continue to the east of the main anomalous zone in order to determine the extent of this anomaly. Also the soil anomalies (including the nickel-chromium ones) should be detail sampled, say, at 20-meter centers.
2. Induced polarization-resistivity surveying should be done across the two multi-element soil anomalies, especially the prime one on the east side of the survey area. The induced polarization should respond to any sulphides and/or graphite associated with or causing the soil geochemistry highs. The resistivity should respond to the mineralization as well since alteration, or graphite associated with any mineralization should be seen as resistivity lows. The purpose of the induced polarization-resistivity work would be to more accurately delineate the mineral zones, thus giving more accurate drill targets.

Respectfully submitted,  
GEOTRONICS SURVEYS LTD.



David G. Mark,  
Geophysicist

APPENDIX V  
INDUCED POLARIZATION  
RESISTIVITY SURVEY



GEOTRONICS SURVEYS LTD.  
403 - 750 W. PENDER ST.  
VANCOUVER, CANADA V6C 2T7  
(604) 687-6671

Herdis International Canada Inc.  
c/o Manny Consultants Ltd.  
4550 Harriet Street  
Vancouver, B.C.  
V5V 4K5

November 16, 1984

Attention: Emanuel Amendolagine, P.Eng.  
Consulting Geologist

Induced Polarization-Resistivity Survey  
XL Claims  
Dawson Mining Division, Yukon Territory

Dear Sirs:

The above-noted work was carried out in October, 1984 and has been completed. The following is therefore a summary report on the results and includes information given in the writer's previous letter dated October 22, 1984.

The work was done across soil geochemistry and magnetic anomalies revealed in previous work and reported on in a previous letter by the writer dated September 19, 1984. The purpose was to delineate the causative sources more precisely and to determine the possibility of sulphides occurring with or being the causative sources.

The survey was run across three anomalous zones. Two were principally anomalous in silver, molybdenum, zinc, lead and copper; and the one in nickel and chromium.

The soil sampling and magnetic surveying were done on lines running northeast-southwest. However, all indications were that the causative sources were striking east-west, and therefore, of necessity, the IP-resistivity lines were run north-south. The one exception is the west boundary line which was run in a southeast direction along the southwest boundary of the previous survey

grid in order to check a chromium-nickel magnetic anomaly. The north-south lines run were 240W, 300E, 540E, 900E and 1140E.

The first two lines that were surveyed, lines 540E and 900E, were run with the dipole-dipole array with a dipole length of 30 m and a dipole separation of 1 to 5. This gave a depth penetration of approximately 90 m. These survey parameters resulted in a fairly detailed pseudosection which was felt necessary since the size of the mineral zone that was being explored for was unknown. From this it was determined that the causative source was fairly large and therefore the remaining lines were surveyed with a dipole length of 60 m and a dipole separation of 1 to 3. The resulting depth penetration is up to 120 m.

The results are very positive. Over the main soil anomalous zone, (described in the previous letter on soil geochemistry-magnetic results as northernmost, at least 400 m long, open to the east) the survey revealed a very strong IP anomaly (50 to 90 milliseconds) correlating directly with a strong resistivity low anomaly (2 to 20 ohm-meters). This is a classic geophysics model for disseminated or fracture-filling sulphides. Considering the direct correlation with silver, molybdenum, zinc, lead and copper soil anomalies, the possibility of the occurrence of economic mineralization is quite good.

The IP-resistivity survey shows the zone to extend for 1,380 meters in an east-west direction with it being open on both ends. However, the soil results are anomalous only on the eastern 400 to 500 meters of the IP-resistivity response. This suggests either, (1) mineralization only occurs on the eastern part of the structure that the IP-resistivity is responding to, or, (2) mineralization occurs along the total length of the IP-resistivity response, but along the western part it occurs too deep for the soil geochemistry to respond to (though there is some molybdenum response).

When it was discovered how low the resistivity values were and therefore how strong the conductor was that was correlating with the soil results, it was decided to send a MaxMin electromagnetometer (EM) to the job site by air cargo. This was done for two reasons. Firstly, the EM may provide extra information in order to optimize diamond drill hole location and therefore save on diamond drill costs. Secondly, if the EM responds to the mineral-

ization adequately, this would save significant costs in any future exploration work on the XL claims.

The EM work, which was done in the horizontal loop mode, was carried out across the main anomalous zone on line 900E. Two profiles were run, one at 100 meter coil separation, and the second at a 200 meter coil separation. All five frequencies were read (222, 444, 888, 1777 and 3555 Hertz).

The 100-meter coil profiles were interpreted resulting in 5 conductors described as follows:

Conductor A

Model: Thin plane conductor (relative term, could be up to 50 m thick).

Location: 300N

Depth to top: 15 to 20 m

Dip: 45 to 75° S

Conductivity-thickness: 30 to 80 mhos with increasing depth.

Conductor B

Model: 2 closely-spaced thin-plane conductors

Location: approximately 4+25N, 4+75N

Depth to top: probably 10 to 30 m

Dip: unknown, probably steep, i.e. 70S to 70N

Conductivity-thickness: unknown

Conductor C

Model: thick conductor with width of 100 m

Location: center at 6+00N

Depth to top: unknown

Dip: unknown

Conductivity-thickness: increasing with depth.

Conductor D

Broad conductive zone from approximately 50S to 350S; no other information available.

Conductor E

Possible shallow, weak conductor at 1+50N; no other information available.

Of the above conductors, that labelled A occurs within the main anomalous zone. The 200-meter coil results, which have twice the depth penetration, appear to show two conductors at the Conductor A location with at least one dipping to the north. The location of these two conductors is 250N and 350N. A possible explanation

is that the 250N conductor was the one picked up by the 100-meter coil profile, dips to the south and is at a shallower depth. The 350N conductor, however, occurs at too great a depth for the 100-meter coil profile to be seen. Unlike the 250N conductor, this one dips to the north. The resistivity results somewhat corroborate this explanation.

Conductor B occurs on the northern part of the main soil geochemistry anomalous zone. Possibly this conductor is reflecting a fault, shear or contact zone indicating the causative mineralization is structurally controlled. There is some correlation with the resistivity and IP results.

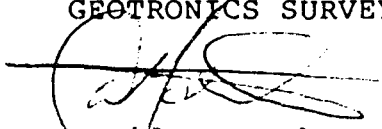
Since the IP crew had a magnetometer with them, line 900E was run with readings taken every 10 m. The purpose was to more closely correlate the magnetic high since the magnetic survey had been done on northeast-southwest lines. The high was outlined and is shown to extend from 320N to 740N. Another narrow magnetic high centered at 170N, correlates with a resistivity high, and therefore probably reflects an intrusive dyke.

What geological model can be formulated to explain all of the geophysical and geochemistry results may over the main zone, be difficult at this point to come up with, since there is very little outcrop in the area. The results as well as the downstream placer gold strongly suggest sulphide mineralization with gold and silver values. The resistivity low may be responding to associated graphite as well as alteration. The IP may be responding to sulphides and/or graphite. The MaxMin EM may be picking up graphite on the ceiling of the gold-silver-sulphide zone. The magnetics could be indicating an intrusive or a volcanic flow occurring with or adjacent to the mineral zone. The soil geochemistry results reflect causative minerals directly but only from the surface of the bedrock (that is, not to depth). The soil results indicate the zone to have a width of approximately 200 m from 300N to 500N. Since the anomaly is on a north-facing slope, the width of the anomaly could be caused by metal ion mobility northwards. Therefore the causative source could be narrower. However, the mobility is not felt to be great since the slope is quite moderate.

Lines 540E and 240W were run across the second soil anomalous zone (silver, lead, zinc, copper) and a similar, though not quite as strong, response was shown across it. The minimum length for this IP-resistivity zone is 780 m though the soil geochemistry results suggest a minimum length of 1,500 m with it open on both ends. The IP-resistivity results suggest the zone to dip to the north.

The west boundary line shows an IP high correlating with a chromium-nickel soil geochemistry high and a resistivity high of moderate intensity. It also correlates with the probable westward extension of the very strong magnetic high. As mentioned in a previous letter, the magnetic high is probably reflecting serpentinite which would also explain the resistivity high. Chromium and nickel mineralization are often associated with ultrabasic bodies such as serpentinite. The IP high could also be reflecting the magnetite that is causing the magnetic anomaly, or, possibly, sulphides as well.

Sincerely yours,  
GEOTRONICS SURVEYS LTD.

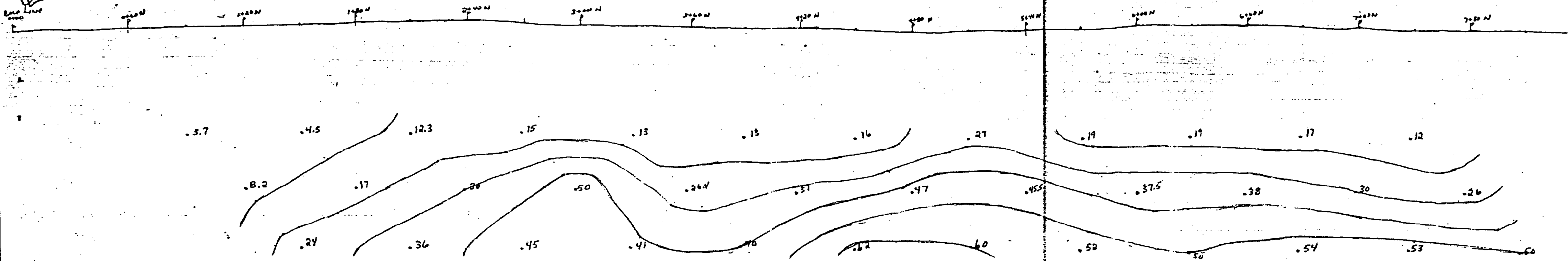


David G. Mark,  
Geophysicist

LINE 300E

IP LINE 3+00 E.  
CHARGEABILITY  
SCALE = 1CM = 20 FT. → N

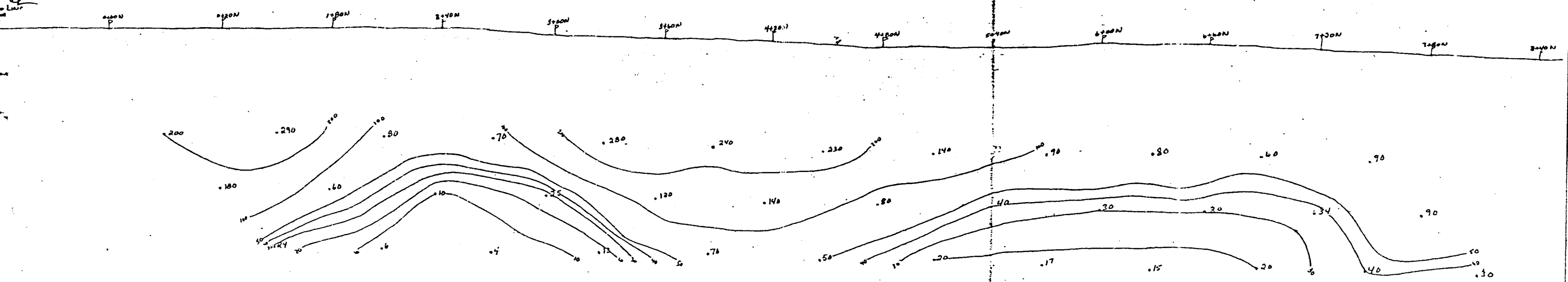
0+00



Line 3+00E  
Resistivity  
Scale 1cm = 10m  
= road  
= creek  
S → N

1:1000  
IP LINE 3+00 E  
RESISTIVITY  
SCALE 1CM = 20 FT. → N

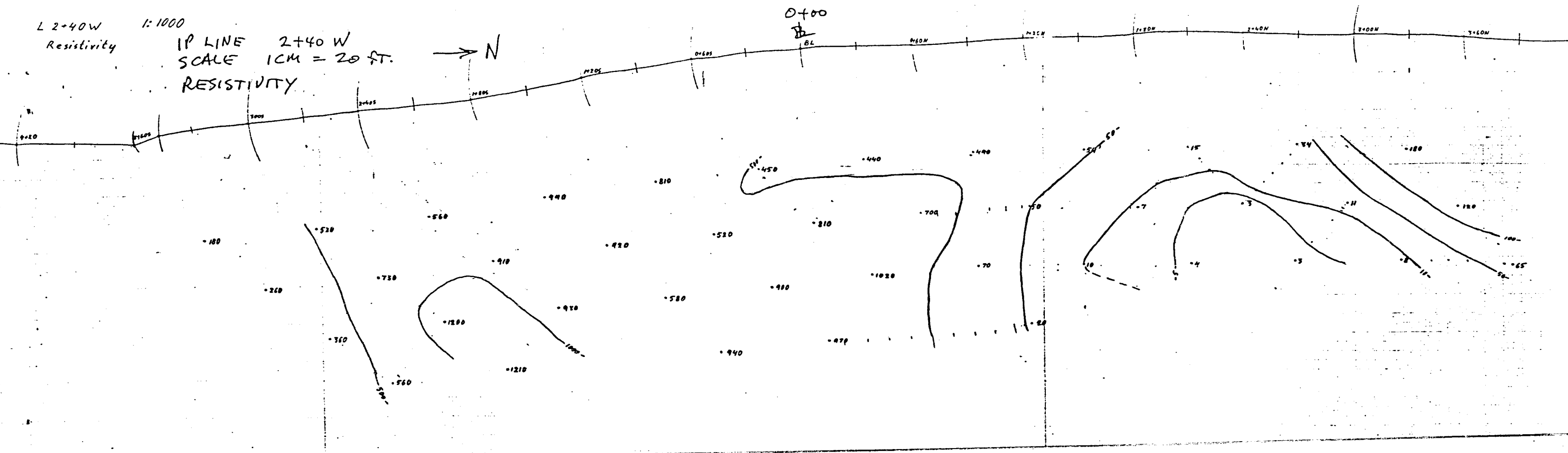
0+00



L 2+40 W  
Resistivity

1:1000

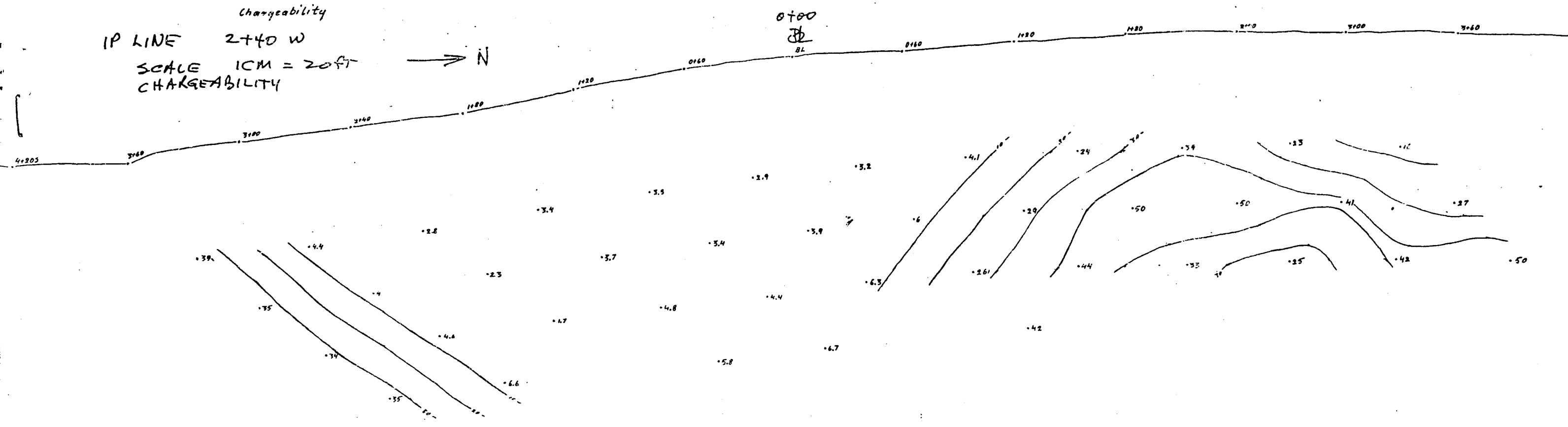
IP LINE 2+40 W  
SCALE 1CM = 20 FT.  
RESISTIVITY

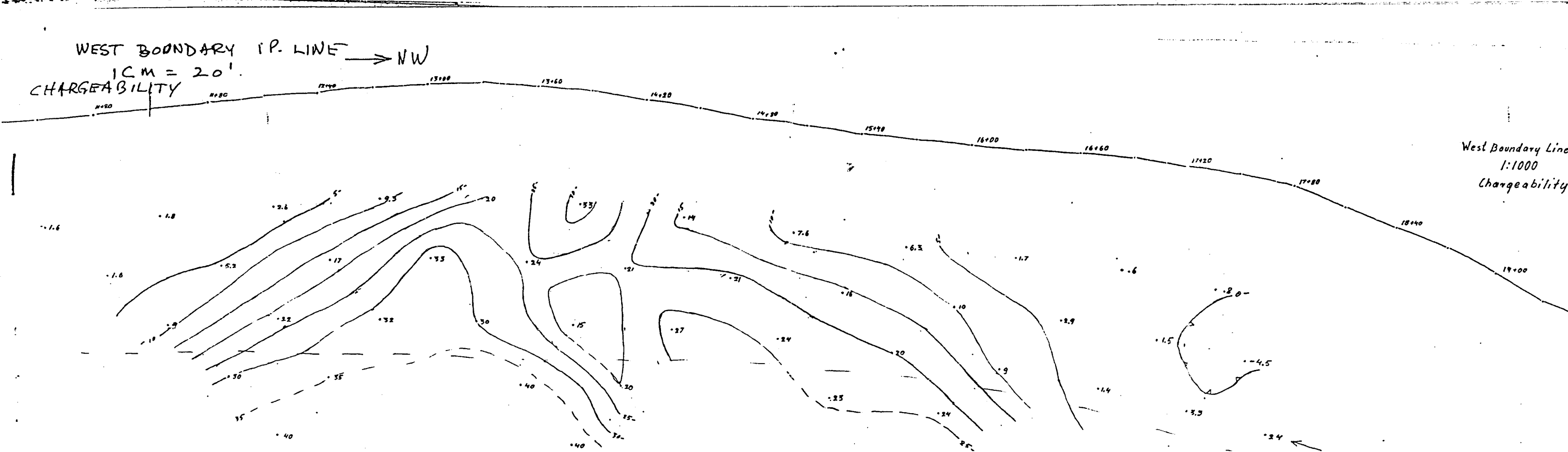
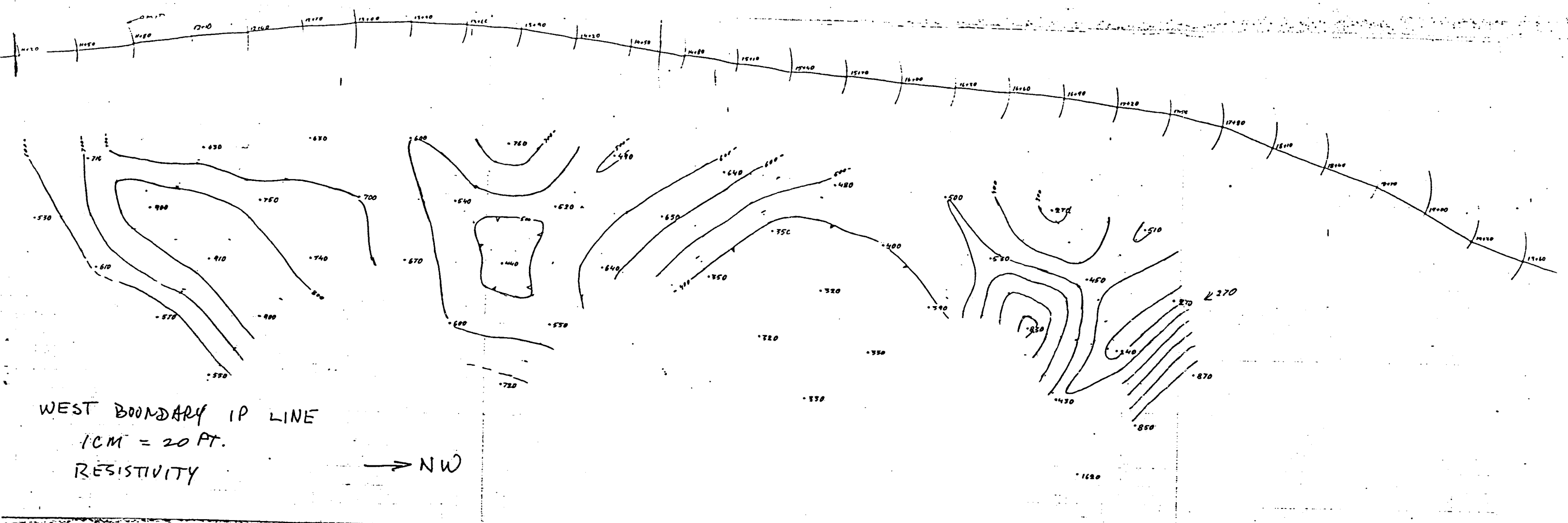


L 2+40 W  
Chargeability

1:1000

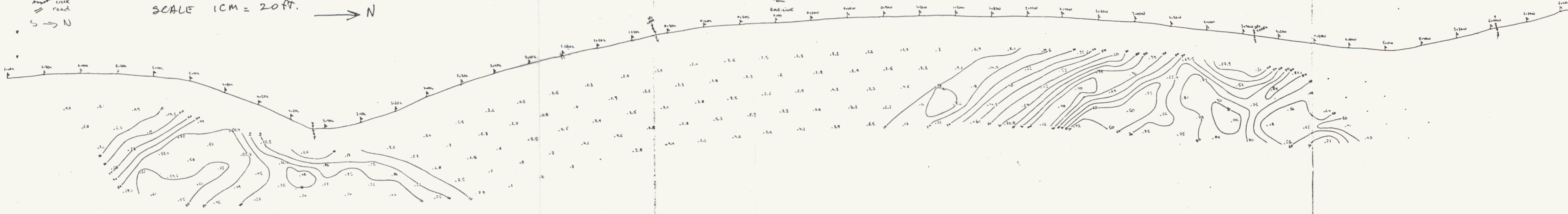
IP LINE 2+40 W  
SCALE 1CM = 20 FT.  
CHARGEABILITY





LWE S+40E  
Chargeability  
Scale 1cm = 10m  
creek  
road  
S → N

1:1000  
IP LINE 540 N  
CHARGEABILITY  
SCALE 1CM = 20 FT. → N



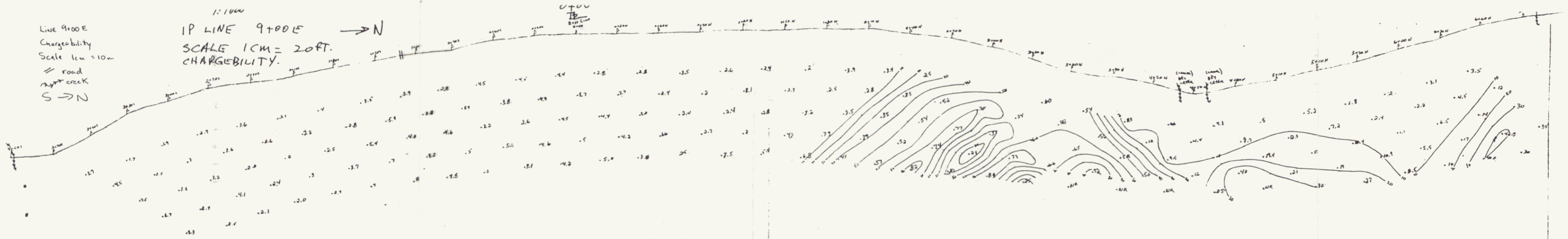
Line S+40E  
Resistivity  
Scale 1cm = 10m  
creek  
road  
S → N

1:1000  
IP LINE 540 E  
RESISTIVITY  
SCALE 1CM = 20 FT. → N



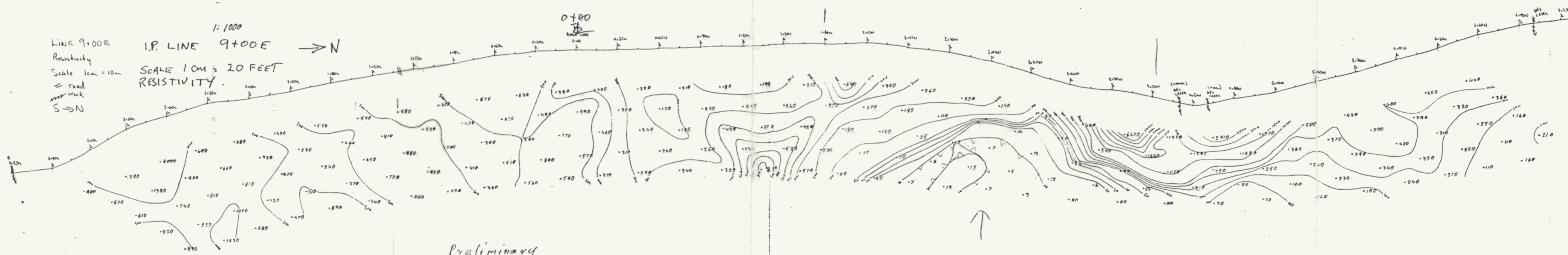
LINE 9+00E  
Chargeability  
Scale 1cm = 10m  
= road  
= crack  
S → N

1:1000  
IP LINE 9+00E → N  
SCALE 1CM = 20 FT.  
CHARGEABILITY.



LINE 9+00E  
Resistivity  
Scale 1cm = 10m  
= road  
= crack  
S → N

1:1000  
I.P. LINE 9+00E → N  
SCALE 1CM = 20 FEET  
RESISTIVITY.



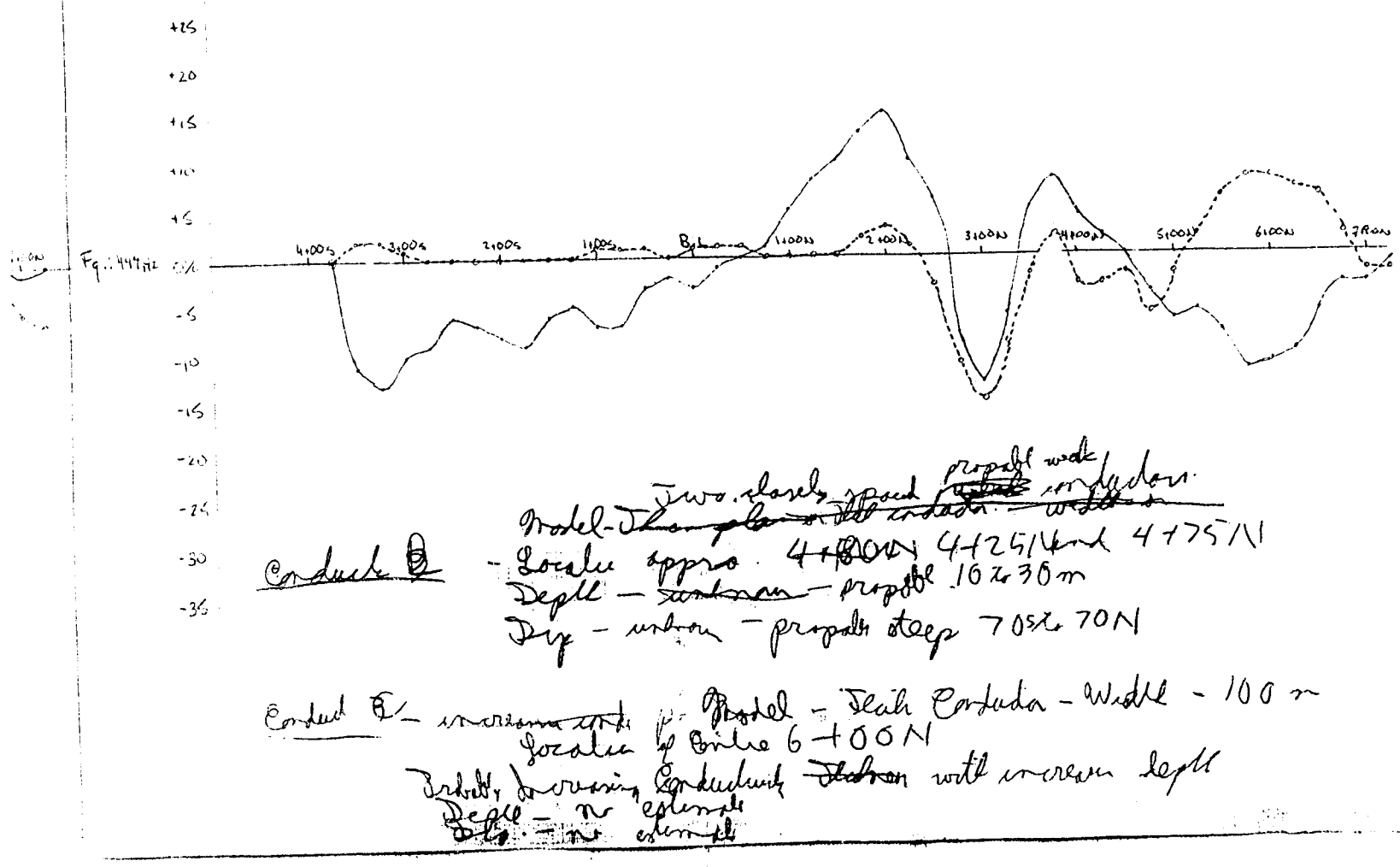
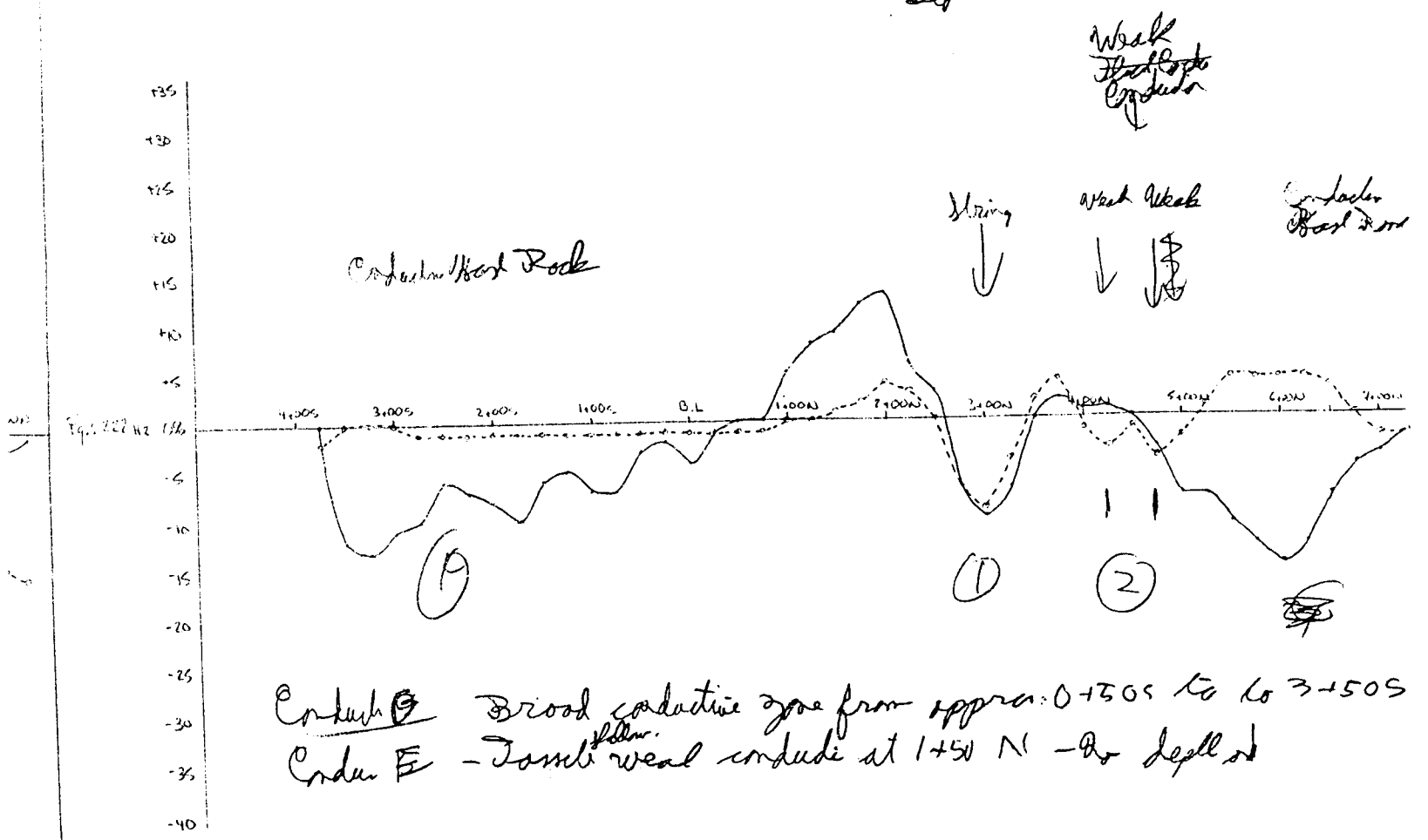
Preliminary

Weak conduct at 4+50

$$\frac{R_2=10}{S_2=7} = 1.4$$

$$W = \frac{6}{80} \Rightarrow 8$$

$$R_2 - R_1 = 15 - 20$$



Conduct D - Model - Two closely spaced ~~propose~~ <sup>propose</sup> conductive zones. Localized approx 4+80N, 4+25N and 4+75N. Depth - unknown - probably 10 to 30 m. Dip - unknown - probably steep 70% to 70N.

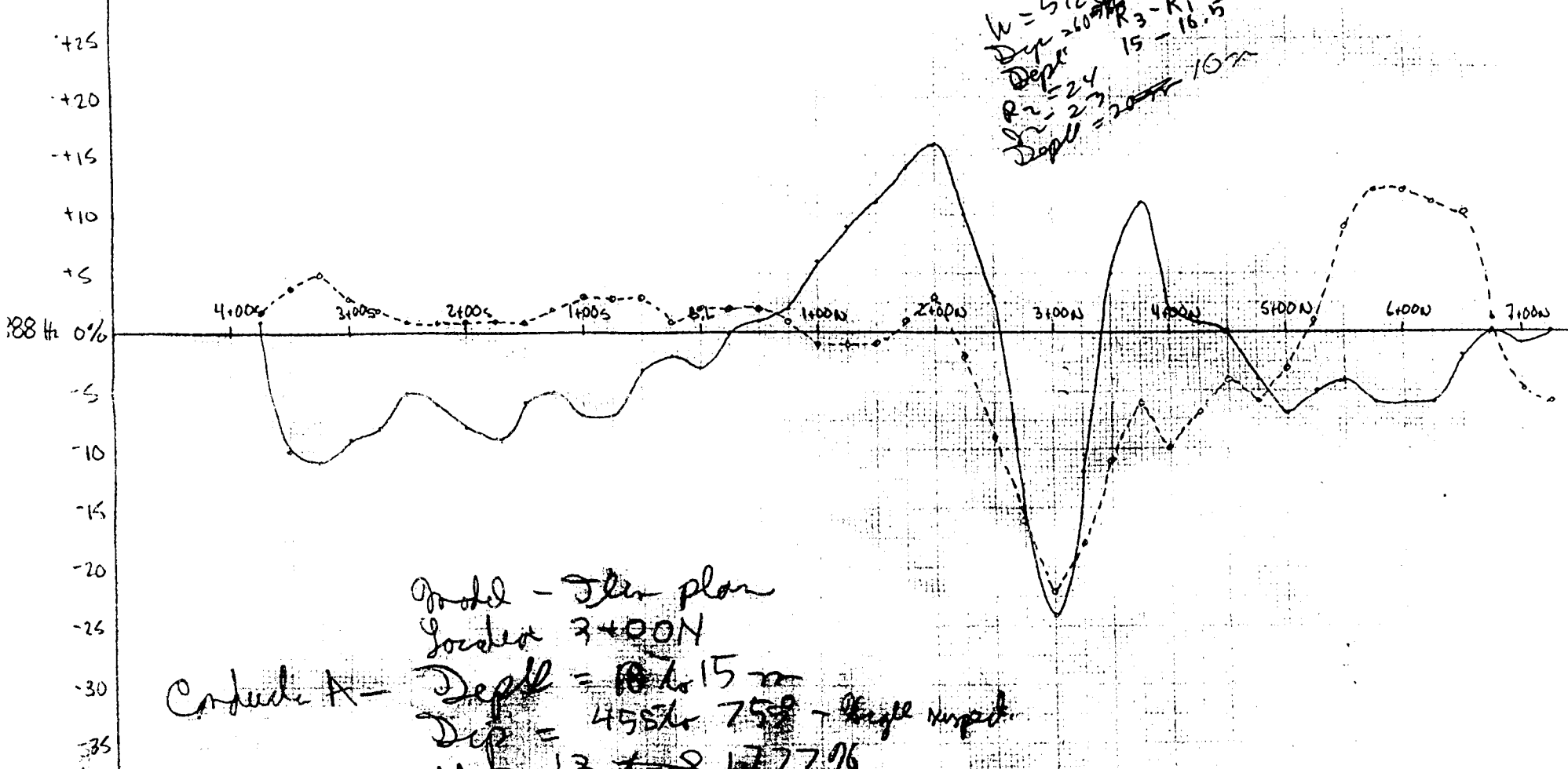
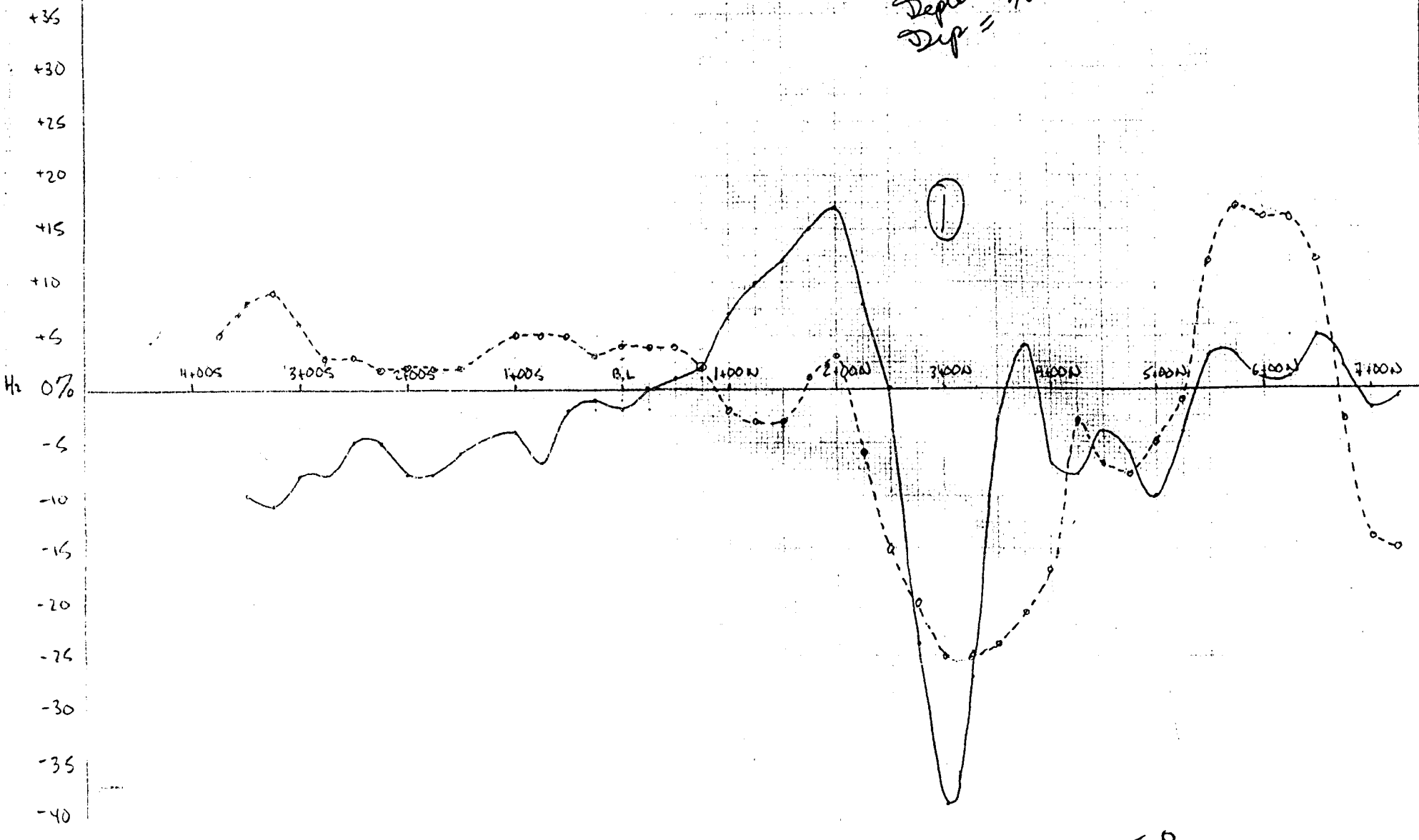
Conduct E - ~~increasing~~ Model - Fresh conducta - Width - 100 m. Localized by line 6+00N. Probably increasing conductivity ~~decreases~~ <sup>decreases</sup> with increase depth. Depth - no estimate. Dip - no estimate.

DAWSON CITY  
 LINE 9+00E  
 COIL SPACING: 100m  
 Fq.: 1777 Hz  
 Scale: 1cm = 50m

A =  
B  
C

$R_1 = 1.7$   
 $R_2 = 4$

$\frac{R_2}{s_2} = \frac{38.5}{2.5} = 1.54$   
 $W = 8 \rightarrow 10$   
 $dt = 13$   
 Depth = ~~from 10m to 12m~~  $\rightarrow 8m \pm 4m$   
 Dip =  $30^\circ$  to  $50^\circ$  high impact



$W = 5.26$   
 $Dip = 20^\circ$   
 $R_2 = 2.4$   
 $R_3 - R_1 = 5.0$   
 $R_3 = 15 - 16.5$   
 $Dip = 20^\circ$  to  $10^\circ$

Model - Thin plan  
 Located 3+00N  
 Depth = 10 to 15 m  
 Dip = 45 to 75 - high impact  
 $dt = 13$  to  $8$  at 1777 Hz  
 $80$  222 Hz  
 down included technique at peak depth