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**GEOCHEMICAL REPORT**  
**on the**  
**NEWTON MINERAL CLAIMS**

**FILMED**

**CLINTON MINING DIVISION**  
**BRITISH COLUMBIA**

NTS 92 0/13E

**SUB-RECORDER**  
**RECEIVED**  
**OCT 5 - 1989**  
 M.S.# \_\_\_\_\_ S \_\_\_\_\_  
 VANCOUVER B.C.

51°48 ' N. LATITUDE  
 123°37 ' W. LONGITUDE

for

**REA GOLD CORPORATION**  
 536-999 Canada Place  
 Vancouver, BC  
 V6C 3E1

by

**A.J. SCHMIDT, P. Eng.**  
 306-673 Market Hill  
 Vancouver, BC  
 V5Z 4B5

September 15 1989

**19,170**  
**GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

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## **GEOCHEMICAL REPORT NEWTON CLAIMS**

### **1. INTRODUCTION**

Rea Gold Corporation commissioned the writer on August 29 1989, to conduct a reconnaissance scale geochemical soil sampling survey within the NEWTON claims. To accomplish this, the writer travelled to the property on August 31, collected 124 soil samples on September 1 and 2, and returned to Vancouver on September 3rd. This report documents that work and the results obtained from the geochemical analyses of the samples collected.

### **2. LOCATION AND ACCESS**

The NEWTON claims are located in south-central British Columbia, approximately 105 kilometres west-southwest of Williams Lake and 37 kilometres southwest of Hanceville. More precisely, the centre of the claims are situated at about 51° 48' North Latitude, and 123° 37' West Longitude, within N.T.S. map 92 0/13E.

The property is readily accessible from Williams Lake via paved highway No. 20 to Hanceville, and then by the well maintained Taseko Lake gravel access road. At approximately 48 kilometres south, a rough four wheel drive trail to Scum Lake branches off to the northwest, and after seven kilometres bisects the NEWTON claims.

The physiography of the property is dominated by Newton Hill, a conical hill which protrudes about 150 metres above the surrounding flat Fraser Plateau. Elevations range from about 1196 metres at Scum Lake to 1361 metres at the top of Newton Hill.

440000mE

50

2

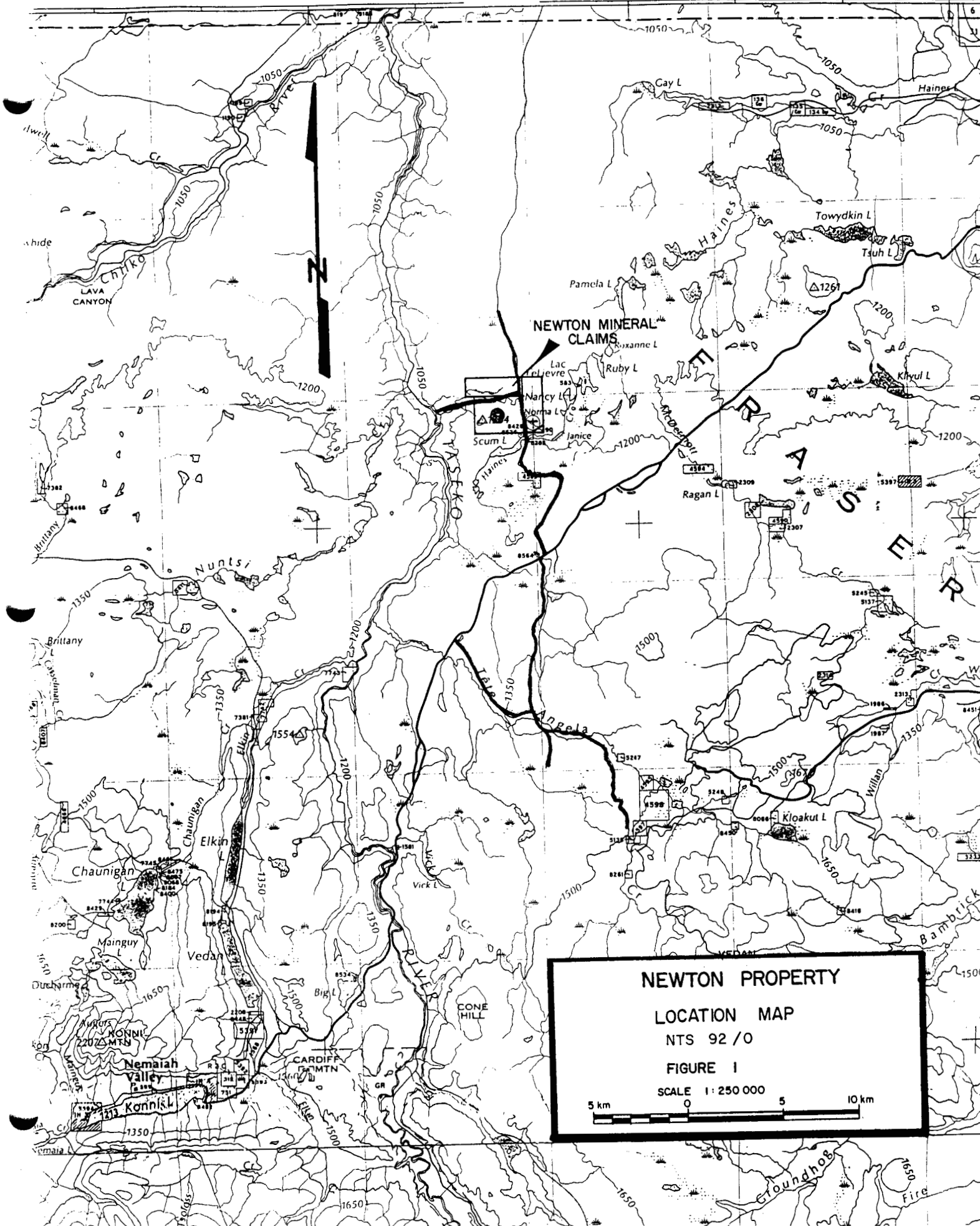
70

80

15'

45'

30'



**NEWTON MINERAL  
CLAIMS**

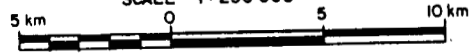
**NEWTON PROPERTY**

LOCATION MAP

NTS 92 / 0

FIGURE 1

SCALE 1 : 250 000



Much of the higher elevations of the NEWTON property are covered by a mature, very open, grassy forest of Douglas Fir, while lower levels are covered by mature lodgepole pine with older willow in swampy areas.

### 3. PROPERTY AND OWNERSHIP

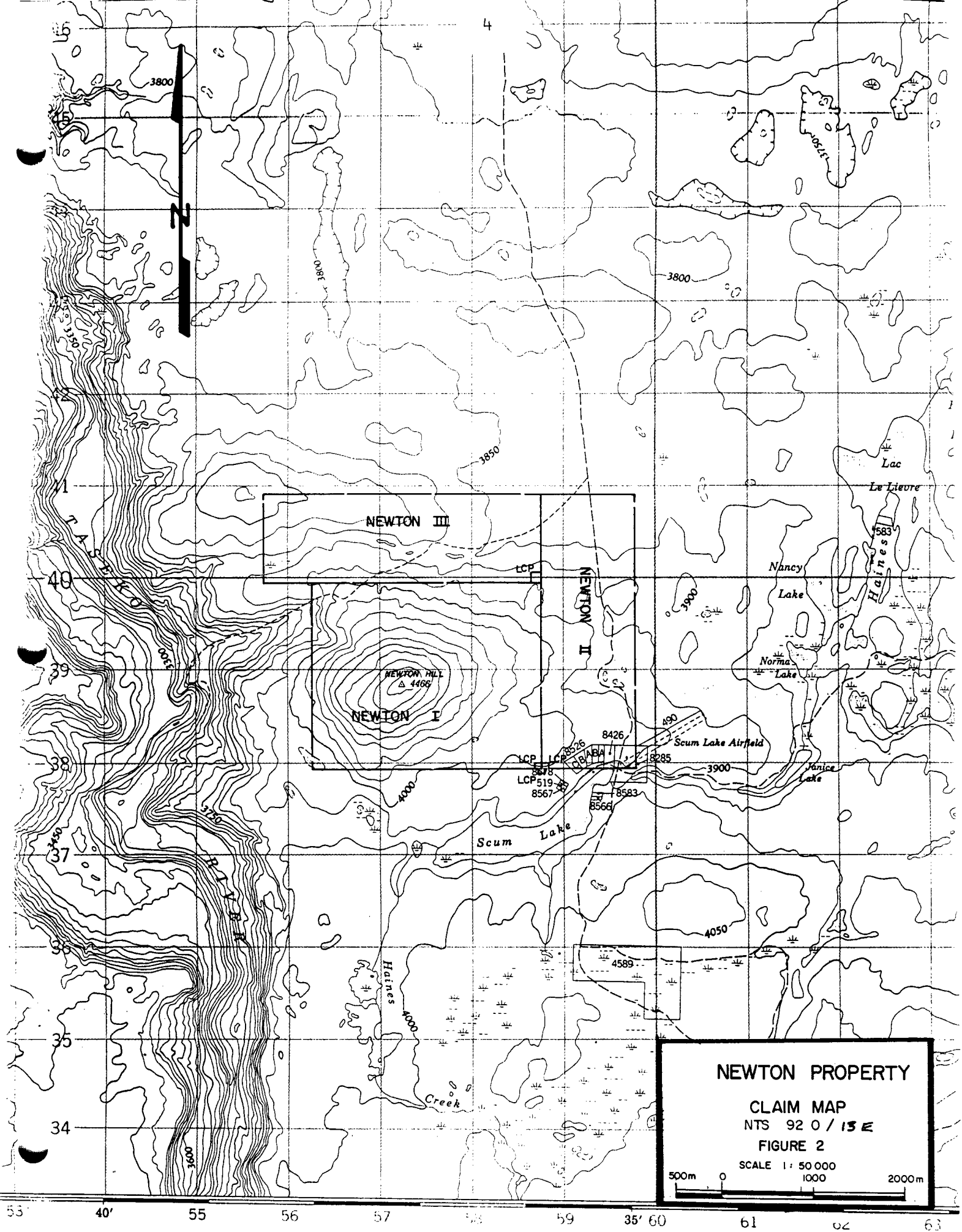
Rea Gold Corporation holds 100% interest in the NEWTON I, II, and III claims, subject to royalty and option payments payable to the property vendors. The property consists of 3 unpatented mineral claims, comprised of 44 units, and covering 1100 hectares. The outline of the property and the boundaries of the mineral claims are shown on Figure 2, Claim Map.

A list of the claims, all located in the Clinton Mining Division, is given below:

<u>CLAIM NAME</u>	<u>UNITS</u>	<u>RECORD NO.</u>	<u>RECORD DATE</u>
NEWTON I	20	2408	Sept. 14 1987
NEWTON II	12	2774	Oct. 9 1988
NEWTON III	12	2775	Oct. 11 1988

### 4. PREVIOUS WORK

A description of the property is first given in the 1916 B.C. Minister of Mines Report, page K171, which indicates that a Mr. Newton had sunk several shafts, and dug numerous bedrock trenches (still very evident) around Newton Hill, and was obtaining gold assays of \$1 to \$3 per ton (i.e. up to 0.1 ounces per ton) from many samples.



**NEWTON PROPERTY**  
**CLAIM MAP**  
 NTS 92 0 / 13 E  
 FIGURE 2  
 SCALE 1: 50 000  
 1000  
 2000m

53 40' 55 56 57 58 59 35' 60 61 62 63

In 1971/72 Cyprus Exploration Corporation completed a program of geological mapping, I.P. and magnetometer surveys and drilled 10 B.Q. holes totaling 5300 feet (1615 m), exploring the property's potential as a leached cap, supergene enriched, porphyry copper prospect.

In 1982, Taseko Mines Ltd. completed a program of percussion drilling (8 holes, 2095 ft) and diamond drilling (4 holes, 1913 ft) on the property. They also explored the porphyry copper potential, but recognizing that gold could be an important co-product, carried out gold and silver analyses on some selected samples. (See Assessment Report 11,001).

The present property vendors acquired the key claim in September, 1987 with the objective to explore the area's gold potential more fully. Prior to the present (1989) program, two east-west reconnaissance soil lines were established, 82 soil samples collected and analyzed, and 129 rock samples (outcrop and 197 drill core) also analyzed for gold and path-finder elements. (See Assessment Report 18,081).

## **5. WORK PROGRAM**

The writer first established an east-west flagged base line across the summit of Newton Hill, and then established several north-south flagged lines from that base line, at 200 metre spacings. One hundred and twenty four soil samples were collected at 50 metre spacings along all north-south lines. These samples were analyzed for gold, silver, arsenic and copper by Min-En Labs in North Vancouver, B.C. The results of this work are documented in this report.

## 6. GEOLOGY

The district has been most recently mapped by H.W. Tipper of the Geological Survey of Canada, whose work is published as Open File 534. His mapping shows that the NEWTON property is underlain by the Upper Cretaceous Kingsvale Group of clastic sediments and associated felsic volcanics, intruded by Eocene age felsic intrusives (feldspar and biotite porphyries). Late Tertiary plateau basalts and Quaternary glacial tills effectively mask much of the underlying bedrock. Major faulting in the area is northwesterly (e.g. Yalakom Fault) and northerly.

Surface mapping on Newton Hill by Cyprus Explorations (1972), Woodcock (1982) and Durfeld (1989) indicate that the Scum Lake porphyry is extensively hydrothermally altered (argillic and phyllic) and pyritized, with local areas of strong silicification and fracturing. Previous drilling indicates that oxidation and leaching are almost complete in the uppermost 30 metres, and that a very weak and thin supergene - enriched zone of copper mineralization occurs (max. about 0.2% Cu).

## 7. GEOCHEMICAL SURVEY

The writer established four north-south flagged lines (2E, 4E, 6E, 8E) across the NEWTON I claim, and collected 124 soil samples at 50 metre intervals along these lines. Samples were collected from the B horizon, at depths of 30 to 40 centimetres, with the aid of a mattock. Min-En Labs in North Vancouver analyzed these samples for gold, silver, arsenic and copper. Their results are given in Appendix 1, and their geochemical methods are documented in Appendix 2.



## 8. RESULTS AND DISCUSSION

Histograms of the combined 1987 and 1989 surveys were prepared for gold, copper and arsenic (n=206) and contours for background, threshold and anomalous values derived for each metal. Those data are displayed on each contoured map, Figures 3a, 3b, 3c (in pocket).

Gold: Although the data gathered thus far is clearly only of reconnaissance quality (i.e. too few samples on lines too far apart) there appears to be good continuity of the anomalies between lines, with a good "fit" with the 1987 samples. There appears to be a east-northeast grain to the anomalies, sub-parallel to previously recognized air photo lineaments (faults?). Fill-in sampling and extensions to close off the anomalies in the northern part of the grid are clearly warranted.

Copper: There also appears to be good continuity to the anomalies from line to line, with the 1987 data fitting well. A narrow anomaly, > 100 ppm Cu, apparently extends 400 metres from line 2E to line 6E. The gold anomaly at L2E, 15+50 N has good copper correlation, but the two gold 'hotspots' at L8E, 7+00N and L8E, 13+00N do not correlate with copper.

Arsenic: The data displayed in Figure 3c is clearly abnormal. Although there is continuity of anomalies from line to line (e.g. northern parts of L2E and L4E), there is no 'fit' at all with the 1987 data. Although the same lab was used, and the same methods, there appears to be two separate data sets, and the 1987 data does not match the 1989 data. Omitting the 1987 data, there apparently is a long, linear arsenic anomaly along line 6E (>20 ppm), with a peak at 10+00 N of 400 ppm. This 'anomaly' bears no relation to either the gold or copper anomaly, and cannot be presently explained.

Overall, the geochemical survey has produced positive results for gold and copper and is apparently a valid exploration technique for this area, despite the widespread cover of glacial till at lower elevations. It is recommended that the remainder of the property be covered by these widely spaced reconnaissance-type soil lines, and that fill-in sampling, at 100 metre spacing, be completed where warranted.

**STATEMENT OF COSTS**

a) Geochemical Analyses - 124 samples - Min-En Labs	\$1,667.80
b) Vehicle Rental - Redhawk 4 Wheel Drive	559.33
- Fuel	84.50
c) Reproductions - Western, Dominion	98.34
d) Report Preparation - Rea Gold Corporation - typing, xerox, binding, etc.	200.00
e) A. Schmidt - field - 4 days @ \$350/day	1,400.00
- office - 3 days @ \$350/day	1,050.00
- room, board, supplies	<u>250.00</u>
TOTAL	= <u><u>\$ 5,309.97</u></u>

Respectfully submitted,



A.J. Schmidt, P.Eng.



Vancouver, BC  
September 15 1989

A P P E N D I X 1  
G E O C H E M I C A L S O I L S A M P L E  
R E S U L T S



**Geochemical Analysis Certificate**

9V-1055-SG1

Company: A.J.SCHMIDT  
Project: SCUM LAKE  
Attn: A.J.SCHMIDT

Date: SEP-14-89  
Copy 1. A.J.SCHMIDT, VANCOUVER, B.C.

***We hereby certify*** the following Geochemical Analysis of 30 SOIL samples submitted SEP-04-89 by A.J.SCHMIDT.

Sample Number	AL-WET PPB	AG PPM	AS PPM	CU PPM
L2E 02+50N	5	0.7	7	21
L2E 03+00N	5	0.6	6	24
L2E 03+50N	5	0.6	5	14
L2E 04+00N	5	0.7	8	25
L2E 04+50N	20	0.9	9	32
-----				
L2E 05+00N	10	0.9	10	35
L2E 05+50N	5	0.8	9	27
L2E 06+00N	5	0.7	10	31
L2E 06+50N	5	0.6	9	26
L2E 07+00N	5	0.6	10	23
-----				
L2E 07+50N	60	0.7	11	35
L2E 08+00N	10	0.9	10	38
L2E 08+50N	5	0.9	12	38
L2E 09+00N	25	1.0	13	47
L2E 09+50N	35	0.7	16	42
-----				
L2E 10+00N	30	0.6	11	25
L2E 10+50N	10	0.7	11	33
L2E 11+00N	5	0.6	10	29
L2E 11+50N	5	0.8	12	38
L2E 12+00N	5	0.7	9	25
-----				
L2E 12+50N	145	0.6	9	26
L2E 13+00N	35	1.1	15	58
L2E 13+50N	25	0.6	13	30
L2E 14+00N	10	0.9	11	26
L2E 14+50N	30	0.8	17	51
-----				
L2E 15+00N	35	0.9	19	66
L2E 15+50N	230	0.9	33	105
L2E 16+00N	100	1.1	20	96
L2E 16+50N	50	0.7	15	62
L2E 17+00N	35	0.6	11	32

Certified by \_\_\_\_\_

MIN-EN LABORATORIES



***Geochemical Analysis Certificate***

9V-1055-SG2

Company: **A.J.SCHMIDT**  
Project: SCUM LAKE  
Attn: A.J.SCHMIDT

Date: **SEP-13-89**  
Copy 1. A.J.SCHMIDT, VANCOUVER, B.C.

**We hereby certify** the following Geochemical Analysis of 30 SOIL samples submitted SEP-04-89 by A.J.SCHMIDT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	CU PPM
L2E 17+50N	5	0.9	16	40
L4E 02+50N	5	0.7	10	15
L4E 03+00N	5	0.6	11	17
L4E 03+50N	5	0.8	11	19
L4E 04+00N	5	0.7	9	14
-----				
L4E 04+50N	10	0.8	13	23
L4E 05+00N	5	1.5	15	41
L4E 05+50N	5	0.9	14	34
L4E 06+00N	5	0.7	11	19
L4E 06+50N	5	0.9	14	40
-----				
L4E 07+00N	10	0.9	14	33
L4E 07+50N	5	0.8	12	33
L4E 08+00N	5	0.7	10	23
L4E 08+50N	90	0.6	11	21
L4E 09+00N	15	0.6	11	21
-----				
L4E 09+50N	95	0.7	14	30
L4E 10+00N	5	0.8	10	21
L4E 10+50N	5	0.9	9	28
L4E 11+00N	5	0.7	11	27
L4E 11+50N	15	0.7	12	31
-----				
L4E 12+00N	10	0.9	12	34
L4E 12+50N	40	0.6	11	38
L4E 13+00N	20	0.7	12	27
L4E 13+50N	45	0.6	9	28
L4E 14+00N	5	1.0	12	61
-----				
L4E 14+50N	5	1.4	15	148
L4E 15+00N	5	1.1	14	93
L4E 15+50N	5	0.7	16	97
L4E 16+00N	50	0.9	19	59
L4E 16+50N	35	0.9	18	53

Certified by



**Geochemical Analysis Certificate**

9V-1055-SG3

Company: A.J.SCHMIDT  
Project: SCUM LAKE  
Attn: A.J.SCHMIDT

Date: SEP-14-89  
Copy 1. A.J.SCHMIDT, VANCOUVER, B.C.

**We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted SEP-04-89 by A.J.SCHMIDT.**

Sample Number	AU-WET PPB	AG PPM	AS PPM	CU PPM
L4E 17+00N	10	1.0	35	22
L4E 17+50N	55	0.6	30	19
L6E 02+50N	5	0.6	18	11
L6E 03+00N	10	0.5	19	12
L6E 03+50N	5	0.8	18	11
-----				
L6E 04+00N	5	0.6	14	9
L6E 04+50N	10	0.8	32	20
L6E 05+00N	15	1.0	26	16
L6E 05+50N	15	1.0	27	17
L6E 06+00N	20	0.8	59	37
-----				
L6E 06+50N	5	0.6	27	17
L6E 07+00N	5	1.0	40	25
L6E 07+50N	5	0.5	21	13
L6E 08+00N	10	0.6	50	31
L6E 08+50N	5	0.8	27	17
-----				
L6E 09+00N	5	0.6	46	29
L6E 09+50N	5	0.8	37	23
L6E 09+95N	10	0.6	22	14
L6E 10+00N	35	1.1	400	250
L6E 10+50N	95	1.0	141	88
-----				
L6E 11+00N	5	0.6	74	46
L6E 11+50N	50	0.8	126	79
L6E 12+00N	5	0.5	67	42
L6E 12+50N	5	1.3	120	75
L6E 13+00N	5	0.8	32	20
-----				
L6E 13+50N	5	0.6	37	23
L6E 14+00N	5	1.9	166	104
L6E 14+50N	5	0.8	51	32
L6E 15+00N	5	0.8	50	31
L6E 15+50N	5	0.8	40	25

Certified by \_\_\_\_\_

MIN-EN LABORATORIES



Geochemical Analysis Certificate

9V-1055-SG4

Company: A.J.SCHMIDT  
Project: SCUM LAKE  
Attn: A.J.SCHMIDT

Date: SEP-14-89

Copy 1. A.J.SCHMIDT, VANCOUVER, B.C.

We hereby certify the following Geochemical Analysis of 30 SOIL samples submitted SEP-04-89 by A.J.SCHMIDT.

Sample Number	AU-WET PFB	AG PPM	AS PPM	CU PPM
L6E 16+00N	15	0.7	10	47
L6E 16+50N	25	1.2	17	95
L6E 17+00N	10	0.7	11	148
L6E 17+50N	5	0.9	13	56
L8E 02+50N	5	1.2	42	32
-----				
L8E 03+00N	5	1.0	28	29
L8E 03+50N	5	0.9	20	29
L8E 04+00N	10	0.9	20	35
L8E 04+50N	10	0.7	12	24
L8E 05+00N	5	0.8	13	50
-----				
L8E 05+50N	5	1.1	14	48
L8E 06+00N	70	0.8	11	42
L8E 06+50N	255	0.7	6	47
L8E 07+00N	845	1.3	18	19
L8E 07+50N	25	0.9	8	35
-----				
L8E 08+00N	5	0.5	11	34
L8E 08+50N	5	0.7	9	27
L8E 09+00N	5	0.7	10	22
L8E 09+50N	5	0.6	11	23
L8E 10+00N	5	1.0	11	23
-----				
L8E 11+00N	10	0.7	10	19
L8E 11+50N	50	0.7	15	25
L8E 12+00N	10	0.5	16	34
L8E 12+50N	45	0.7	12	24
L8E 13+00N	75	0.7	17	40
-----				
L8E 13+50N	20	1.1	22	71
L8E 14+00N	195	1.0	35	82
L8E 14+50N	5	0.7	12	26
L8E 15+00N	40	0.8	16	31
L8E 15+50N	25	0.7	14	35

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TIMMINS, ONTARIO CANADA P4N 7G7  
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***Geochemical Analysis Certificate***

9V-1055-SG5

Company: A.J.SCHMIDT

Project: SCUM LAKE

Attn: A.J.SCHMIDT

Date: SEP-14-89

Copy 1. A.J.SCHMIDT, VANCOUVER, B.C.

***We hereby certify*** the following Geochemical Analysis of 4 SOIL samples submitted SEP-04-89 by A.J.SCHMIDT.

Sample Number	AU-WET PPB	AG PPM	AS PPM	CU PPM
LBE 16+00N	80	0.8	4	18
LBE 16+50N	35	0.7	9	31
LBE 17+00N	65	0.9	8	34
LBE 17+50N	90	0.8	10	32

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**A P P E N D I X   2**  
**A N A L Y T I C A L   P R O C E D U R E S**

1  
2  
3

*MIN-EN Laboratories Ltd.*

*Specialists in Mineral Environments*

Corner 15th Street and Bewicke  
705 WEST 15th STREET  
NORTH VANCOUVER, B.C.  
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURE FOR GOLD GEOCHEMICAL ANALYSIS.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pre-treated with  $\text{HNO}_3$  and  $\text{HClO}_4$  mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5 ppb.

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Corner 15th Street and Bewicke  
705 WEST 15TH STREET  
NORTH VANCOUVER, B.C.  
CANADA V7M 1T2

GEOCHEMICAL ANALYSIS PROCEDURE FOR  
Pb, Zn and Ag:

Samples are dried at 95°C. Soils and stream sediments are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis.

All rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1. 1.000 gram sample is weighed into 25x200 test tube.
2. Add 2 ml of  $\text{HNO}_3$  and let it set for 15 minutes and then add 5 ml of  $\text{HClO}_4$ .
3. Place test tubes on sandbath for 6 hours and elevate temperature to 200°C.
4. Take the test tubes off cool and dilute to 25 ml.
5. Read samples on Atomic Absorption Spectrophotometer.
6. Background correction can be carried out on Pb and Silver if it is requested.
7. Standards are digested along with each set of samples and calibrations checked.



**MINERAL  
• ENVIRONMENTS  
LABORATORIES**

---

ANALYTICAL PROCEDURE REPORT FOR ASSESSMENT WORK:

PROCEDURE FOR ARSENIC:

Samples are processed by Min-En Laboratories, at 705 West 15th Street, North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the sample is digested for 6 hours with  $\text{HNO}_3$  and  $\text{HClO}_4$  mixture.

After cooling samples are diluted to standard volume. A suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzeit method using  $\text{Ag CS}_2\text{N} (\text{C}_2\text{H}_5)_2$  as a reagent. The detection limit obtained is 1. ppm.

A P P E N D I X 3  
C E R T I F I C A T E

1  
2

**APPENDIX 3  
CERTIFICATE**

I, **ANDREW J. SCHMIDT**, do hereby certify:

1. That I am a Consulting Geological Engineer with offices at 306 - 673 Market Hill, Vancouver, BC.
2. That I graduated in Geological Engineering from the University of British Columbia in 1961 with a Bachelor of Applied Science degree.
3. That I have practised my profession continuously since graduation.
4. That I am a Registered Professional Engineer in the Association in British Columbia.
5. That this report dated September 15 1989 is based upon my own field work carried out between August 31 and September 3 1989.

DATED at Vancouver, BC this 15th day of September, 1989

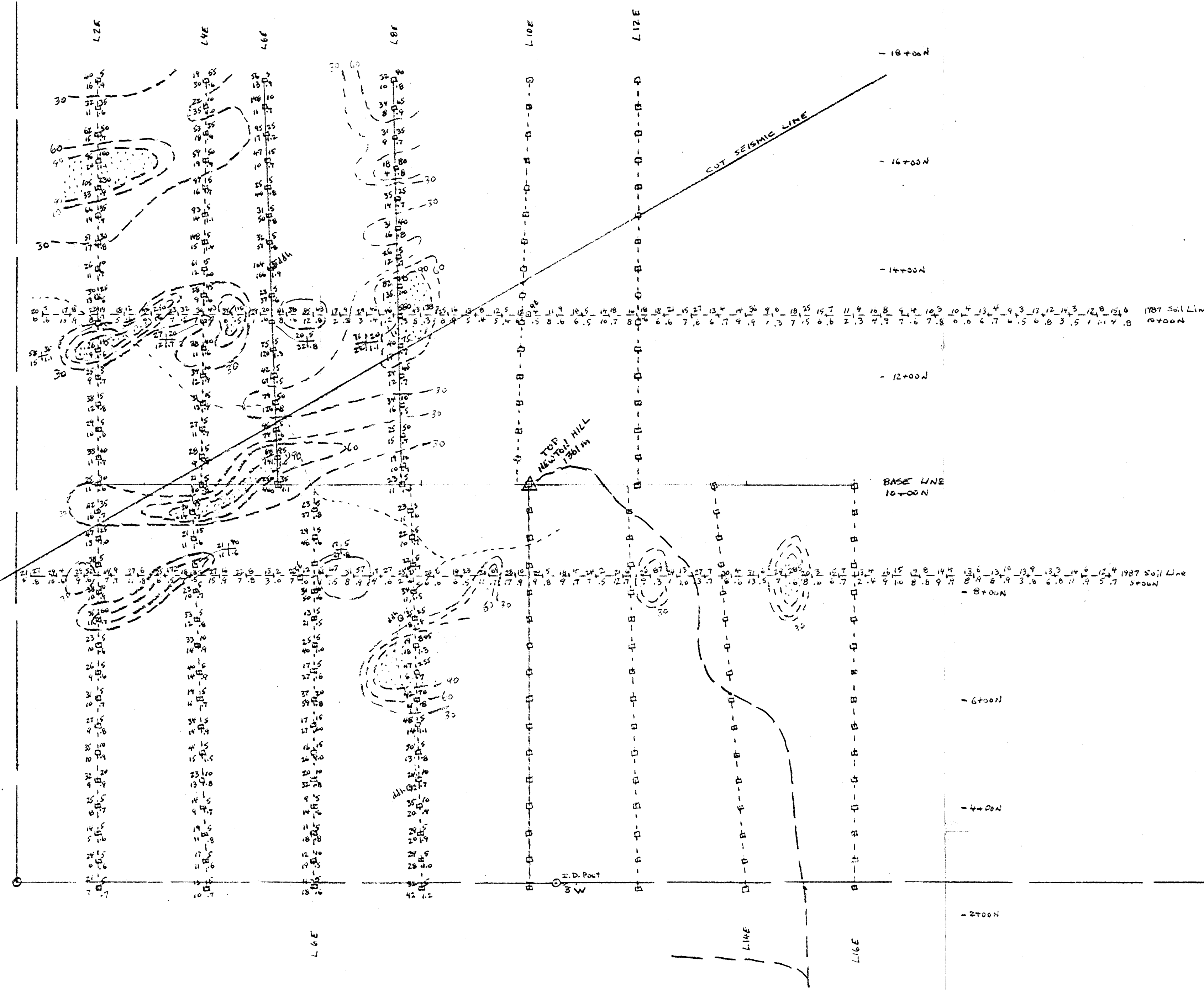
*A Schmidt*

A.J. Schmidt, P.Eng.

*A Schmidt*

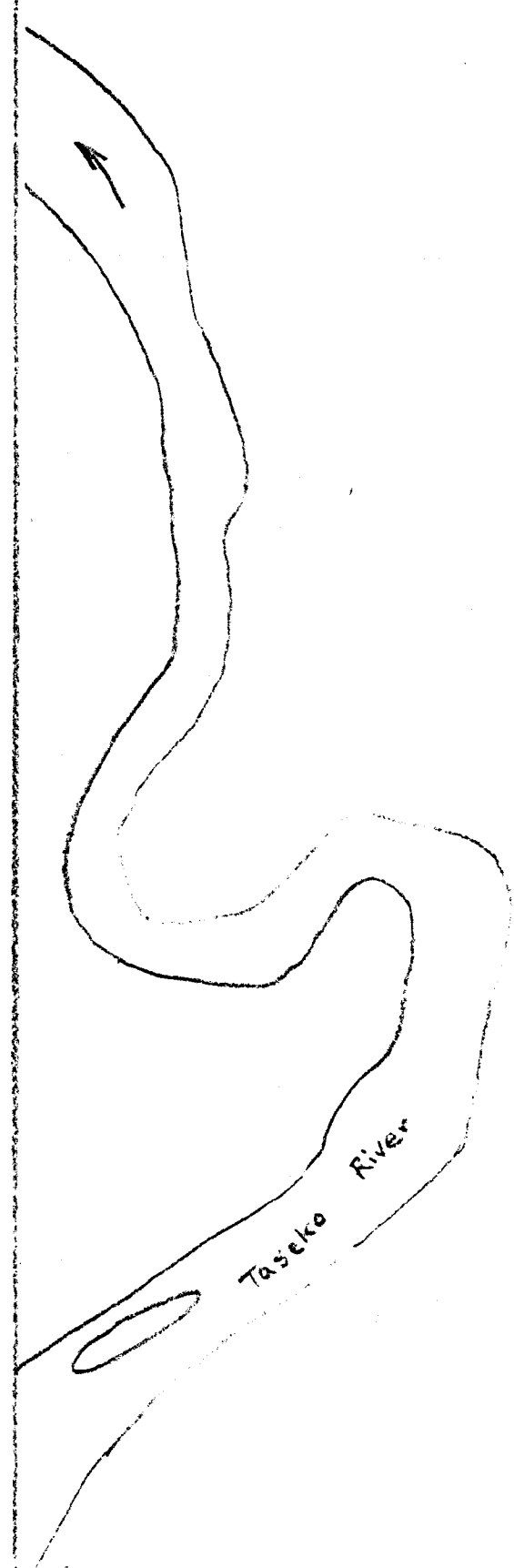
NEWTON III (2775)  
(2x6 units)

claim boundaries



NEWTON II (2774)  
(2x6 units)

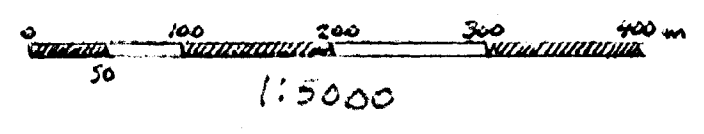
NEWTON I (2708)  
(4x5 units)



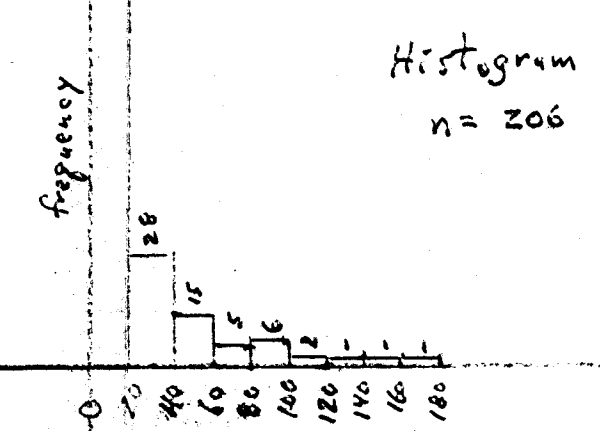
--- Flagged line  
 Sample site  
 --- cut line  
 --- 4x4 road/rail  
 Cu Au  
 Ag Ag geochemical values

GEOLOGICAL BRANCH ASSESSMENT REPORT

19,170



REA GOLD CORP.
SCUM LAKE Cu/Au Project Clinton Mining Division
GEOCHEMICAL COMPILATION GOLD (ppb)
AJ SCHMIDT, P. Eng. Sept. 1989 NTS 920/13



Contours at 20, 50, 100 ppb

FIG. 3a

SCUM LAKE  
± 1196 m

CAMP X SITE

Z.D. Point SW

TOP MOUNTAIN HILL  
300 m

BASE LINE  
10+00N

CAT SEISMIC LINE

18+00N

16+00N

14+00N

12+00N

10+00N

8+00N

6+00N

4+00N

2+00N

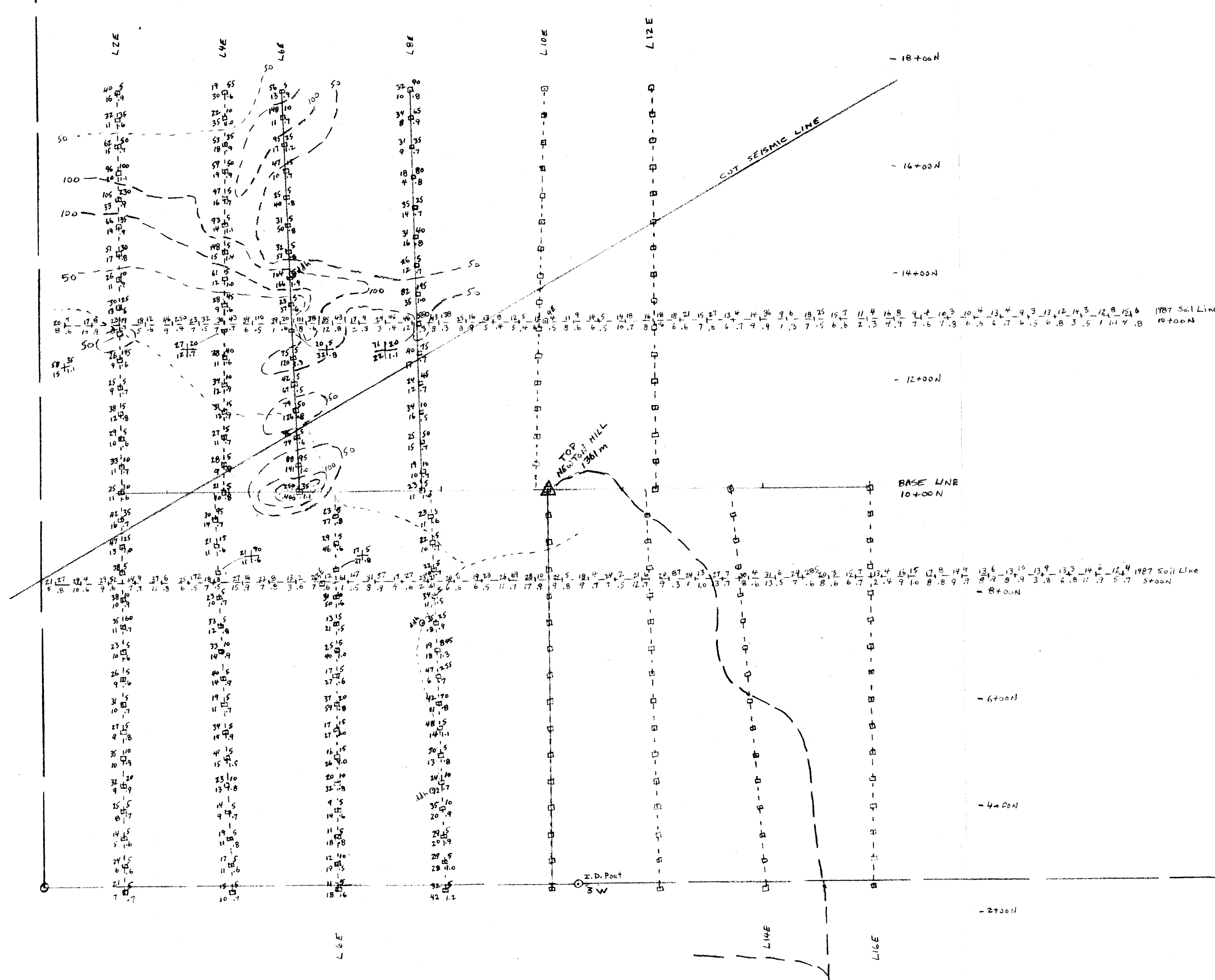
LCP

LCP LCP



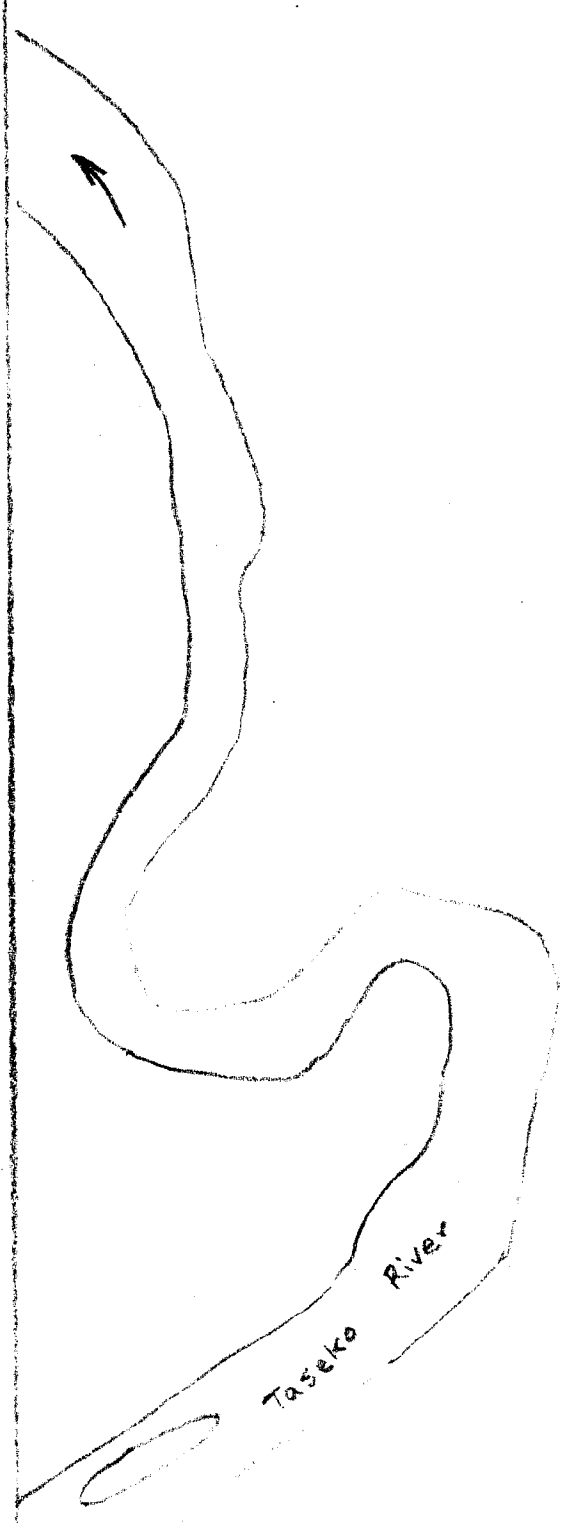
NEWTON III (2775)  
(2x6 units)  
LCP

claim boundaries



NEWTON III (2774)  
(2x6 units)  
LCP

NEWTON I (2408)  
(4x5 units)  
LCP



---□--- Flagged line  
 --- Sample site  
 --- cut line  
 --- 4x4 road/trail  
 Cu Au geochemical values  
 Pb Ag

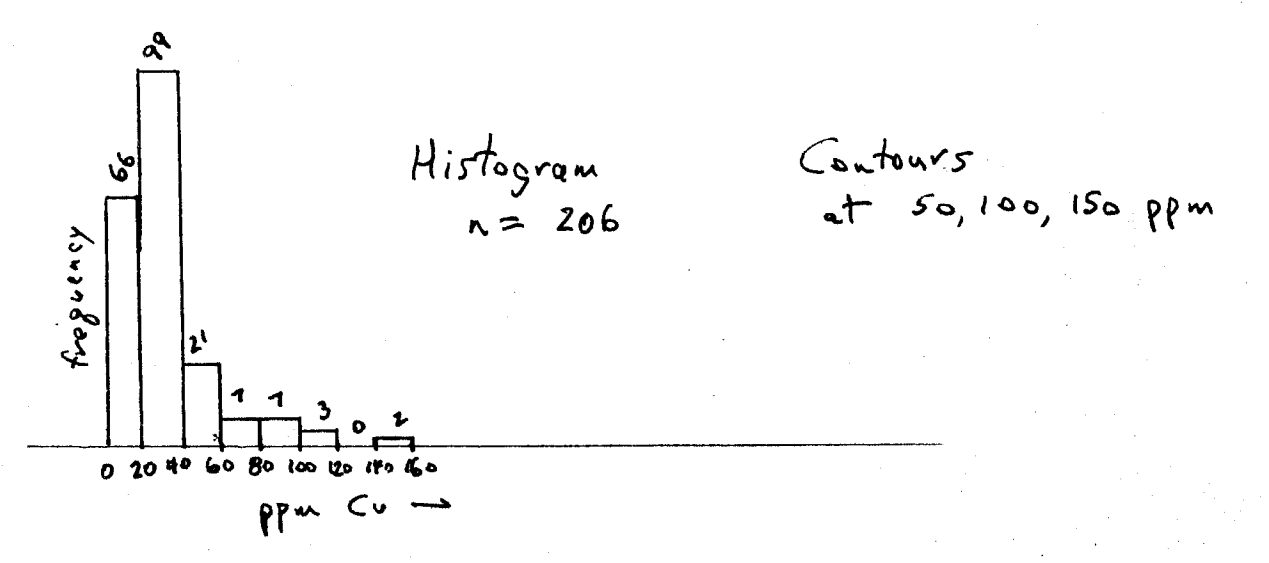
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0 100 200 300 400 m  
 1:5000

REA GOLD CORP.  
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 COPPER (ppm)  
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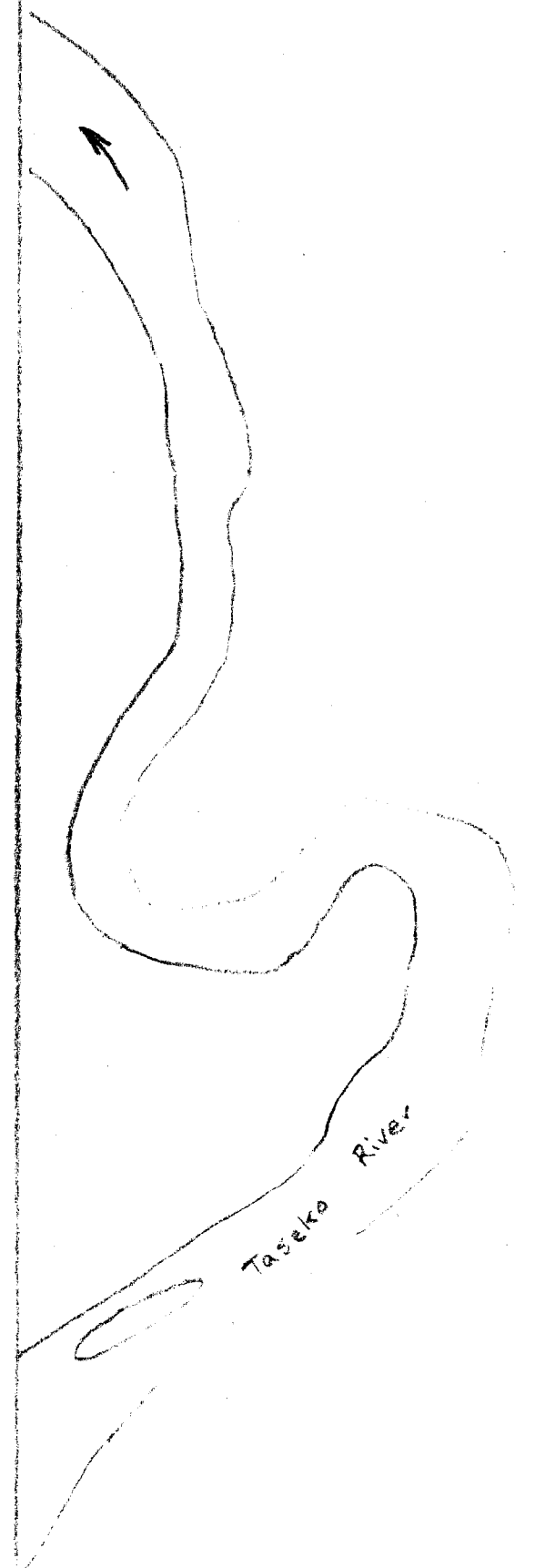
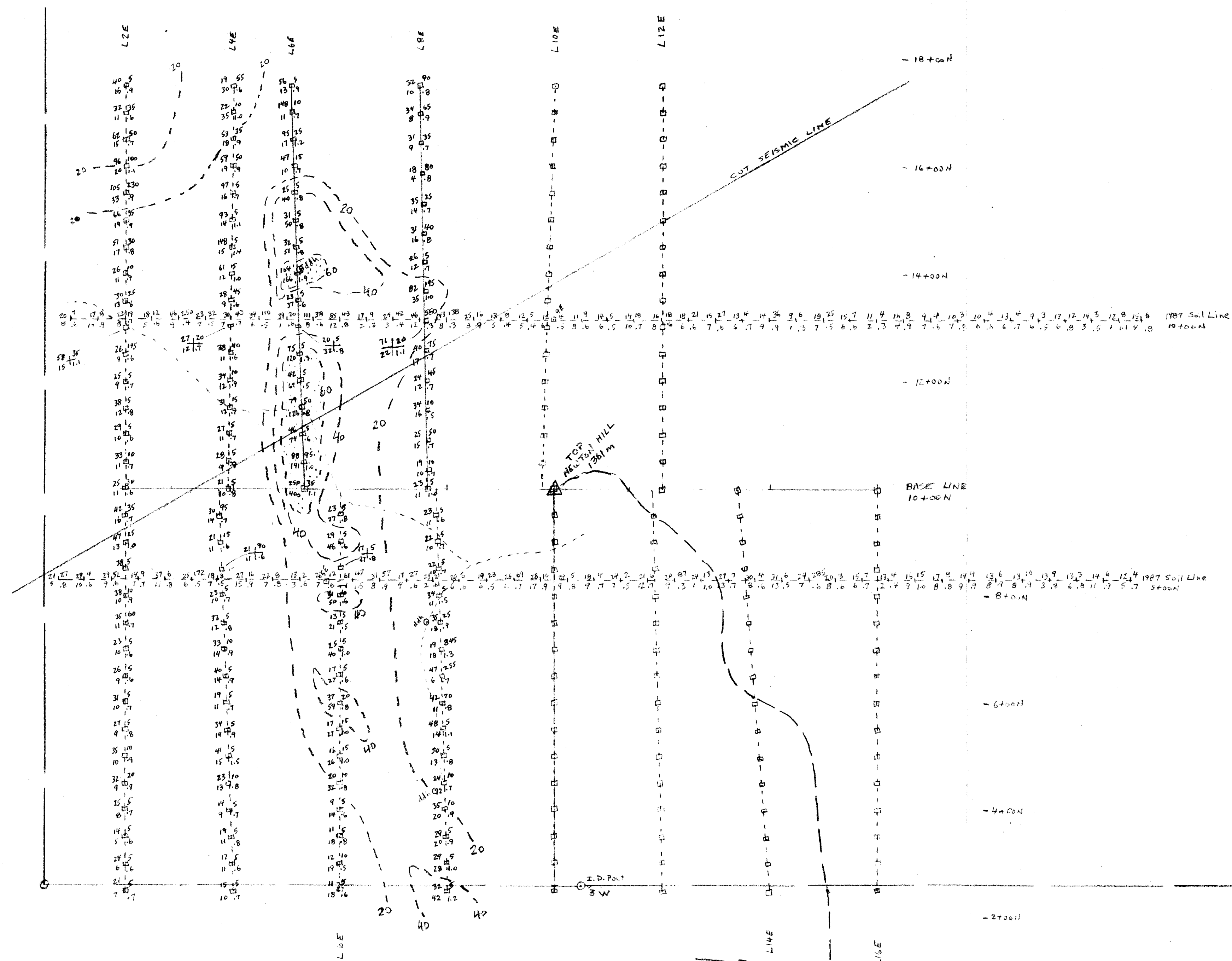
FIG. 3b



NEWTON III (2775)  
(2x6 units)

LCP

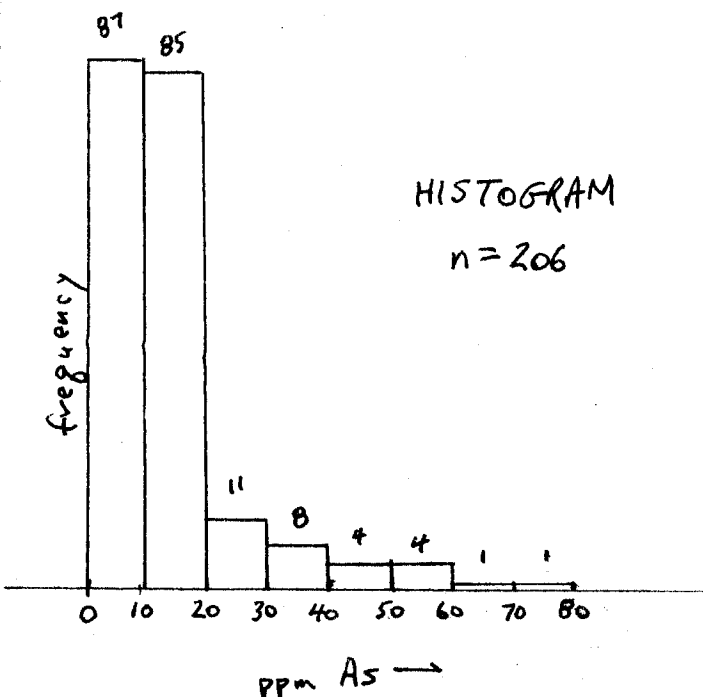
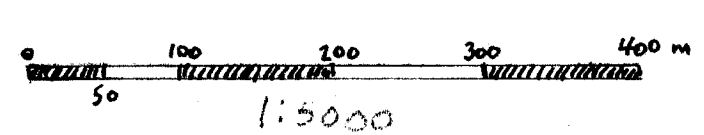
claim boundaries



---□--- flagpole line  
 --- cut line  
 --- 4x4 road/trail  
 Cu Au  
 Ag Hg geochemical values

**GEOLOGICAL BRANCH  
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 ARSENIC (PPM)  
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FIG. 3C