

part 4  
of 6

ASSESSMENT REPORT, GEOCHEMICAL EXPLORATION

THANKSGIVING PROPERTY

Revelstoke MD, 82M 1/E

51° 14' N, 118° 12' E

OWNER: Andaurex Resources

OPERATOR: Northair Mines Ltd.

January 1982

R.Wares

ASSESSMENT REPORTS, GEOCHEMICAL EXPLORATION

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## I GENERAL INFORMATION

### 1.1 Location, Access

The Thanksgiving Property is located 24 Kms north of Revelstoke, B.C. Access to the property is by Hwy 23, from Revelstoke to Mica Dam. Access to the property is relatively good, both utilizing logging roads and the old Mastodon mine road. (Fig. 1 )

### 1.2 Topography

The Thanksgiving claim group flanks the Columbia River. On the west side of the Columbia, the claims cover part of the west bank to an elevation of 1500m. On the east side of the Columbia, the claims cover a moderate slope to an elevation of 1500m. The claims cover the La Forme Creek area; the north side La Forme Creek is relatively steep, with the claims rising to 1800m.

The claim group covers in part, the area cleared for the Revelstoke dam. The dam will flood the valley to the 575m level. Vegetation on the property comprises, on the lower slopes below 750m, second growth timber with some active logging underway on first growth timber in selected areas, south of La Forme Creek.

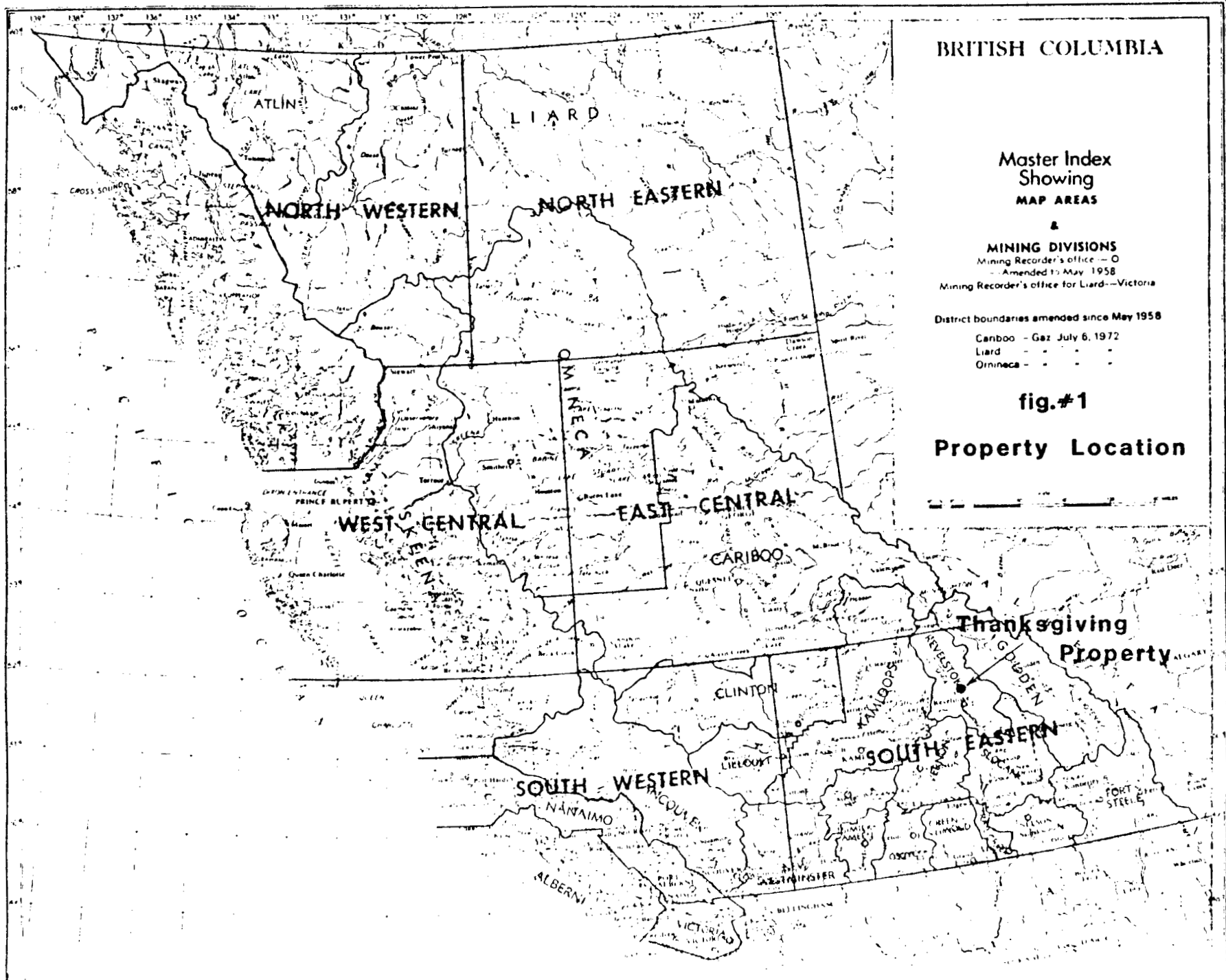
### 1.3 Claim Status

The group of claims in the Thanksgiving Property (Table 1 ) were staked at several periods from Dec 1980 to May 1981. (Fig.2)

### 1.4 History of the Property

Initial discovery of scheelite bearing float in the vicinity of Discovery Creek in October 1980, was followed by the discovery of Scheelite "in situ" shortly thereafter.

The claims were staked by 6 Revelstoke based prospectors, under the name of Cajac Exploration, who subsequently sold the property to Andaurex Resources. In May 1981, the property was optioned to Northair Mines, who, as the operating company, carried out the exploration programme in 1981.



**BRITISH COLUMBIA**

**Master Index  
Showing  
MAP AREAS**

**&  
MINING DIVISIONS**  
Mining Recorder's office — O  
— Amended to May 1958  
Mining Recorder's office for Liard—Victoria

District boundaries amended since May 1958

- Cariboo - Gaz July 6, 1972
- Liard - - - - -
- Omineca - - - - -

**fig.#1**

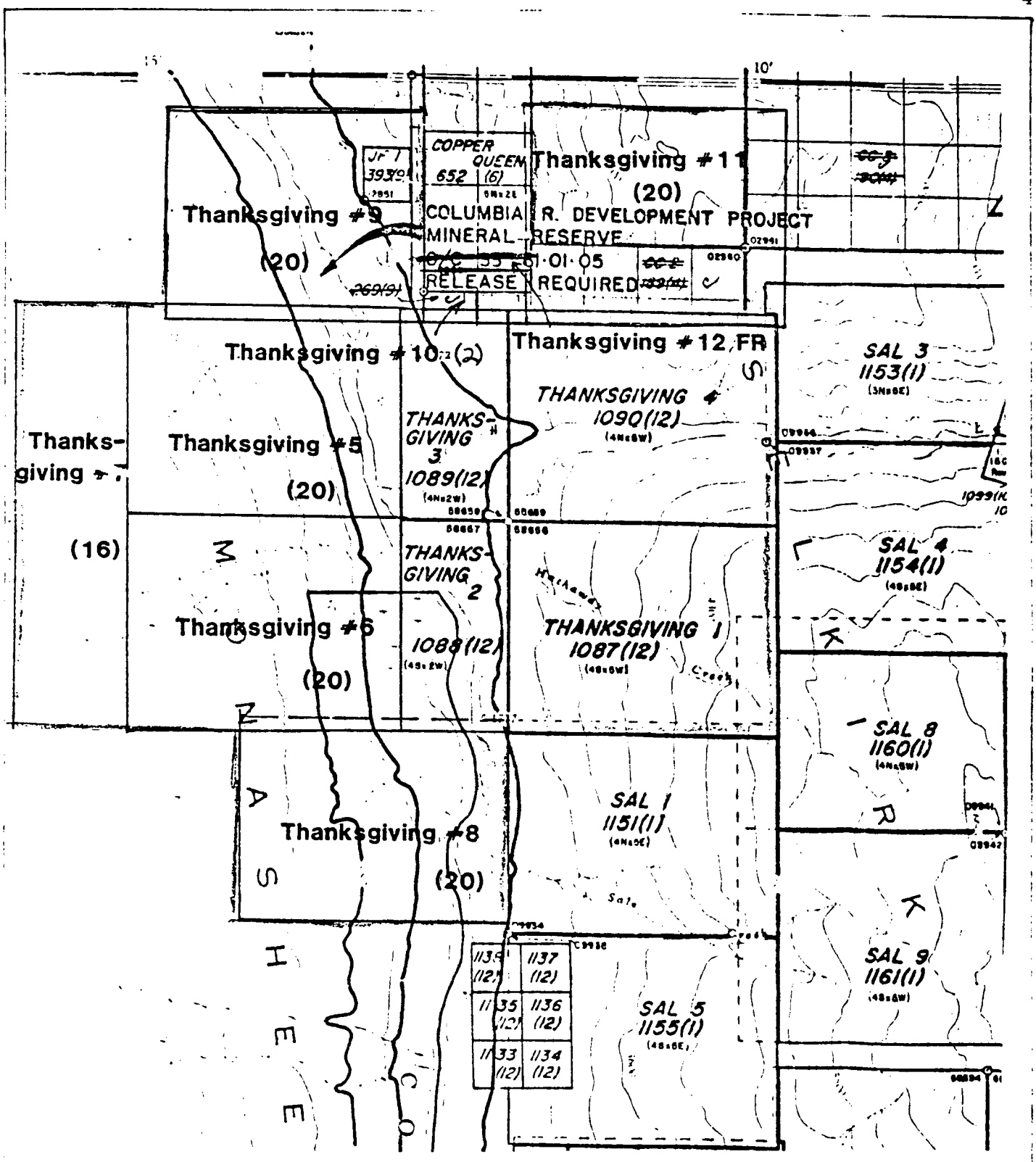
**Property Location**



**Thanksgiving  
Property**

TABLE ISCHEDULE OF CLAIMS

<u>NAME</u>	<u>NO. OF UNITS</u>	<u>RECORD NO.</u>	<u>RECORD DATA</u>
Thanksgiving #1	20	1087	2/12/80
#2	8	1088	2/12/80
#3	8	1089	2/12/80
#4	20	1090	2/12/80
#5	20	1201	29/04/81
#6	20	1202	29/04/81
#7	16	1203	29/04/81
#8	20	1263	8/06/81
#9	20	1264	8/06/81
#10	2	1265	8/06/81
#11	20	1266	8/06/81
#12 Fr	1	1267	8/06/81



<b>NORTH AIR MINES LTD.</b>	
<b>CLAIM MAP</b>	
Project: Thanksgiving	Drawn: R. Wares
Date: 3/12/81	Approved:
Scale: 1:50,000	Figure:
N.T.S. 82 M/1	Figure: #2

1.5

A total of 560 soil samples were collected in systematic grid sampling.

A total of 170 silt samples were collected in regional geochemical sampling with an addition, 18 panned concentrates. A total of 35 large volume gravel samples were collected for sieving and analysis as whole rock samples.

A further 40 samples were collected for orientation and profile sampling.



## 2.1 General Geomorphology

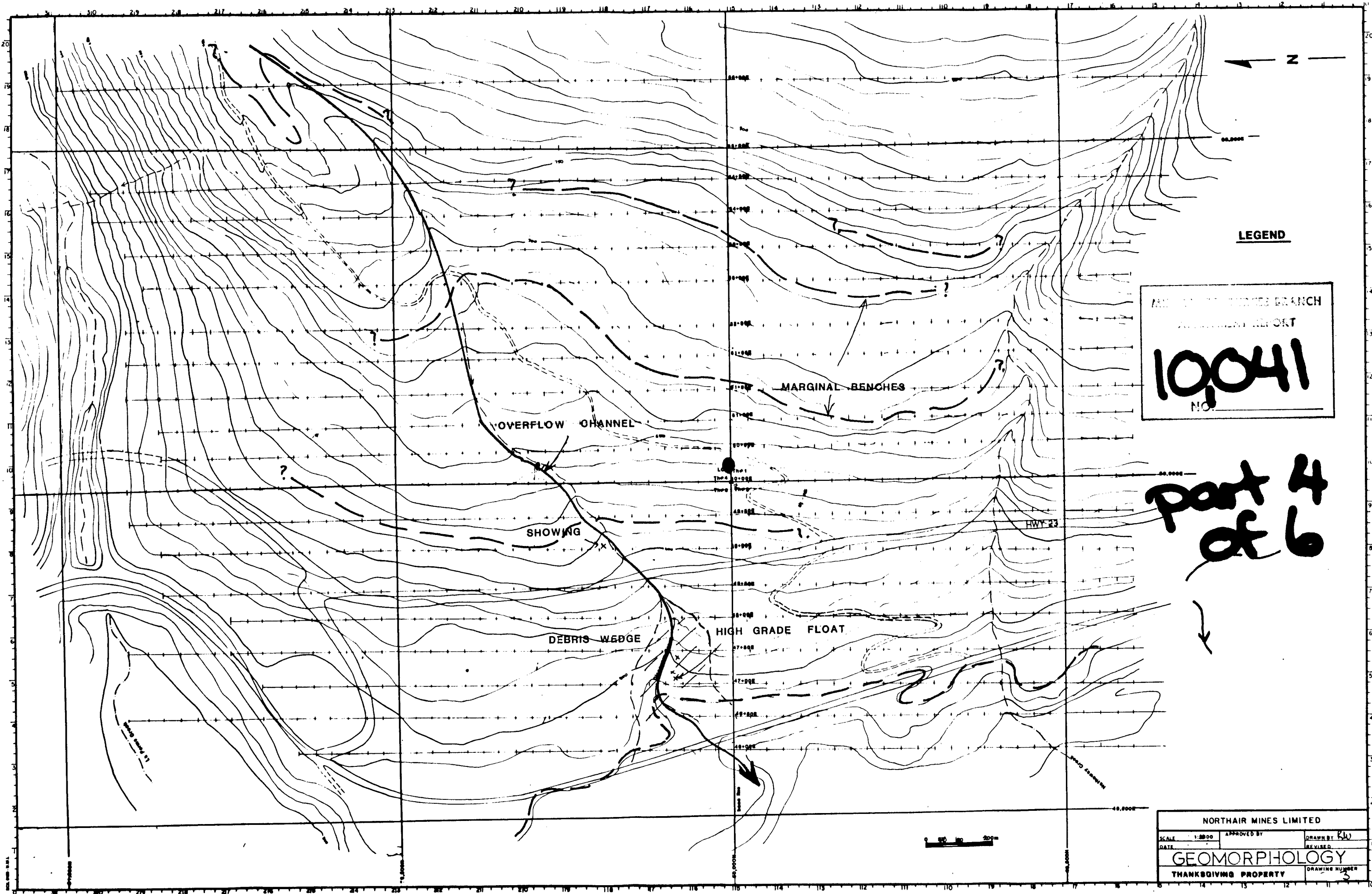
The pattern of geochemical response in the Thanksgiving property is a product of both bedrock metal distribution and the (occasionally) complex pattern of glacial and post glacial morphology.

The area of concentrated sampling has clearly been affected by the confluence of two ice streams, one in the Columbia River basin and the other in the La Forme Creek drainage. Till is generally thin in the La Forme Creek slope but thickens markedly to the SE. Above 750m, the till is a poorly sorted, reddish unit with angular exotic fragments. Below 750m, at least in the area S of La Forme Creek, the till is overlain by wedges of ice marginal deposits giving rise to an irregular bench topography. The ice marginal deposits are finer grained sands and gravels, with some drainage impediment on the remnant benches. At least 5 bench levels appear to be present. Below 550m, a thick prism of fluvio-glacial or post glacial gravels form a number of wedges. Of particular importance in the geochemical programme (Fig. 3) was the recognition of a sub glacial drainage channel, developed below the 750m level from 50,500N, 50,500E to 50,100N, 49,750E. This overflow channel is in part occupied by Discovery Creek. The lower reaches of the channel are manifested by a wedge of poorly sorted gravels carrying angular fragments of high grade, scheelite bearing float. These appear to have been removed from the area of the Discovery showing and transported down stream.

The area of immediate economic importance has the following variables effecting the geochemical response.

- a) basal till, variably developed
- b) overlying ice marginal benches with some drainage impediment.
- c) an extensive overflow channel that has given rise to a prism of high grade float to the SW of the initial discovery.

(Fig. 3 )



MINING ENGINEERING BRANCH  
 INVESTIGATION REPORT  
**10,041**  
 NO.

*part 4  
 of 6*

NORTHAIR MINES LIMITED			
SCALE 1:2000	APPROVED BY	DRAWN BY <i>RW</i>	
DATE		REVISED	
GEOMORPHOLOGY			DRAWING NUMBER
THANKSGIVING PROPERTY			3

### 3. Western Reconnaissance

A portion of the geochemical exploration was directed at the area west of the Columbia River. There are grounds for recognition, on the basis of regional geological considerations, that the area, while lithologically similar, is in fact of a different tectonic position than the area of known sulphide mineralization east of the Columbia River.

Geological reconnaissance had outlined an elongate belt of carbonate rocks overlying a suite of quartzo-feldspathic gneisses. The contact zone was apparently a tectonic contact. The dip of the contact zone was  $30-40^{\circ}$ , conformable with the gneissic foliation, with a northerly strike. Some late normal faulting was evident near Creek "A".

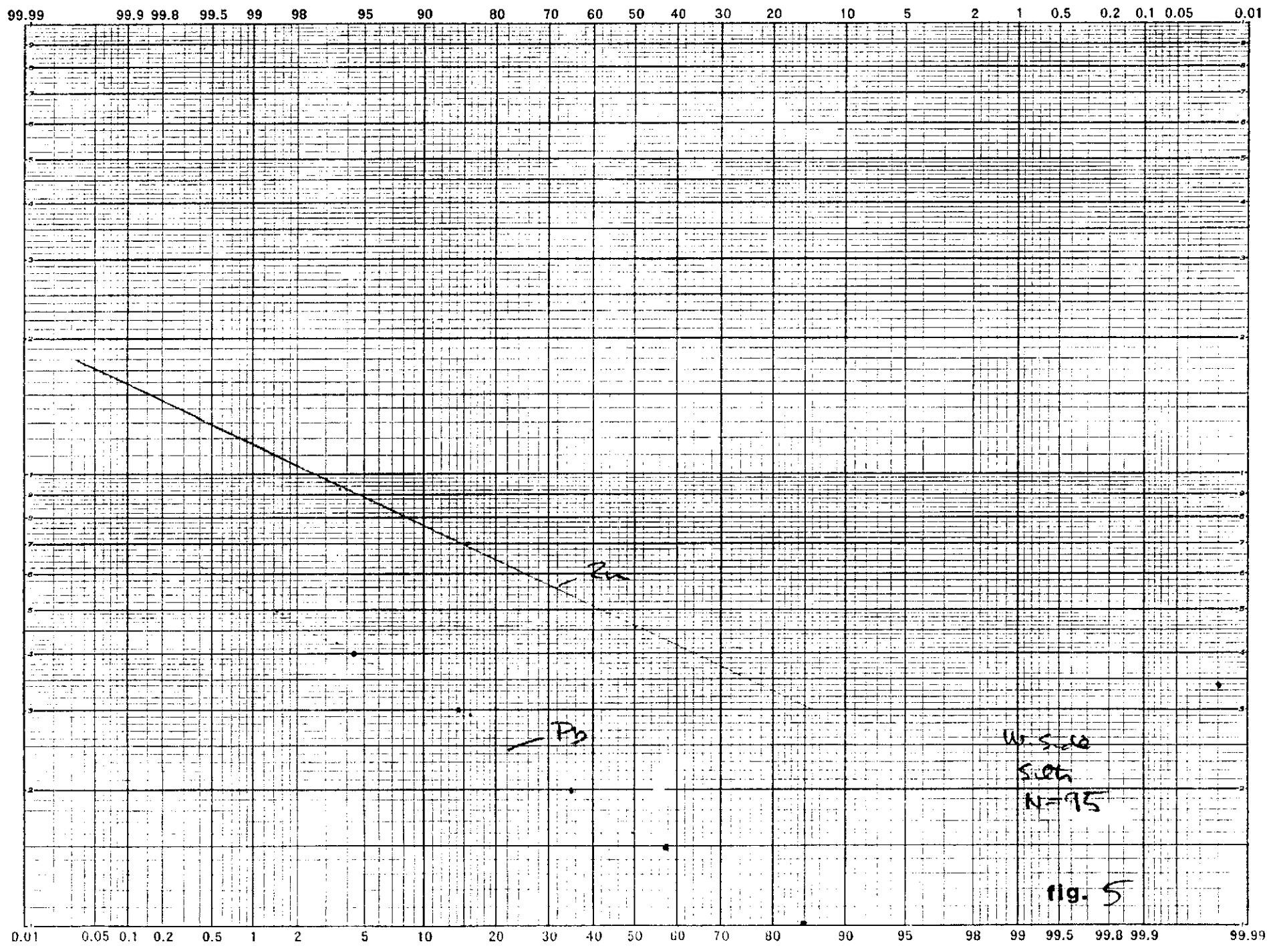
A programme of soil and silt reconnaissance was carried out to test the environment of the carbonate contact unit, though no skarn or garnetiferous skarns were noted.

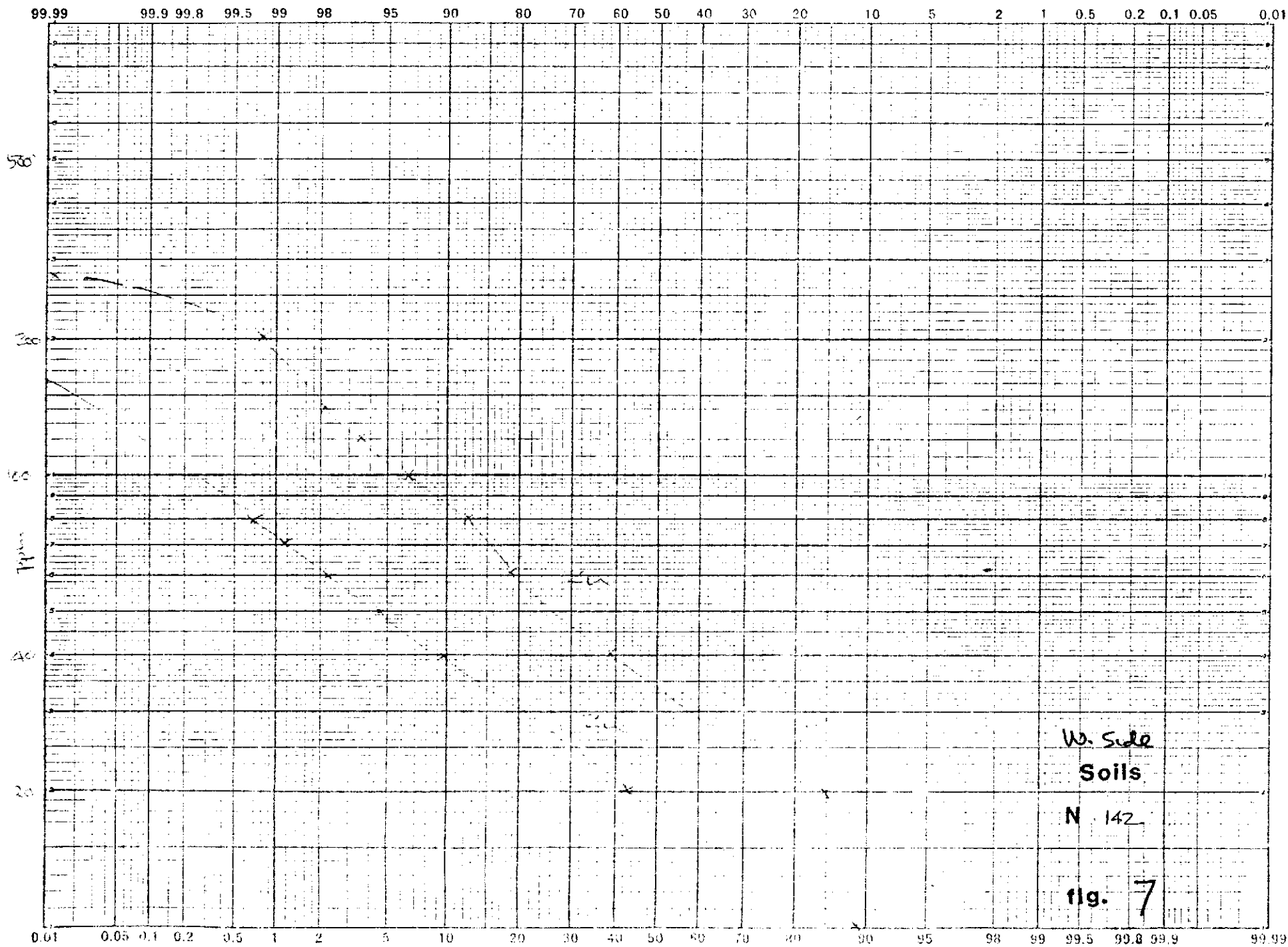
#### 3.1 Silt Sampling

The silt sampling programme was carried out using silts and panned silt concentrates. The data (Fig. 4) did not outline any areas with economically significant data (Fig. 5). The generally low order values, the the present, pattern of sampling, do not appear to suggest a high potential for the occurrence of mineralization of the type encountered in the discovery showing.

#### 3.2 Soil Sampling

Concomitant with the silt sampling, reconnaissance "B" horizon soils were collected with a view to defining any dispersal trains from mineralization above & below the contact zone. The values encountered were all of low order values (Fig. 6,7) not, at the present moment of economic significance.





#### 4. Orientation Survey

Before the geochemical programme was commenced, an orientation soil, silt and rock geochemical programme was initiated. Profile soils were collected over the area of known tungsten mineralization, a small soil grid collected near the showing and a number of silt samples collected above, below and near the showing. The samples were collected prior to trenching, blasting and road construction by Northair Mines.

##### 4.1 Soil Orientation

Two soil profiles were collected over known mineralization, before exploration disturbance. The profiles were analyzed for W,Pb,Zn,Ag,Au,Cu,Mn,Fe,Mo,pH.

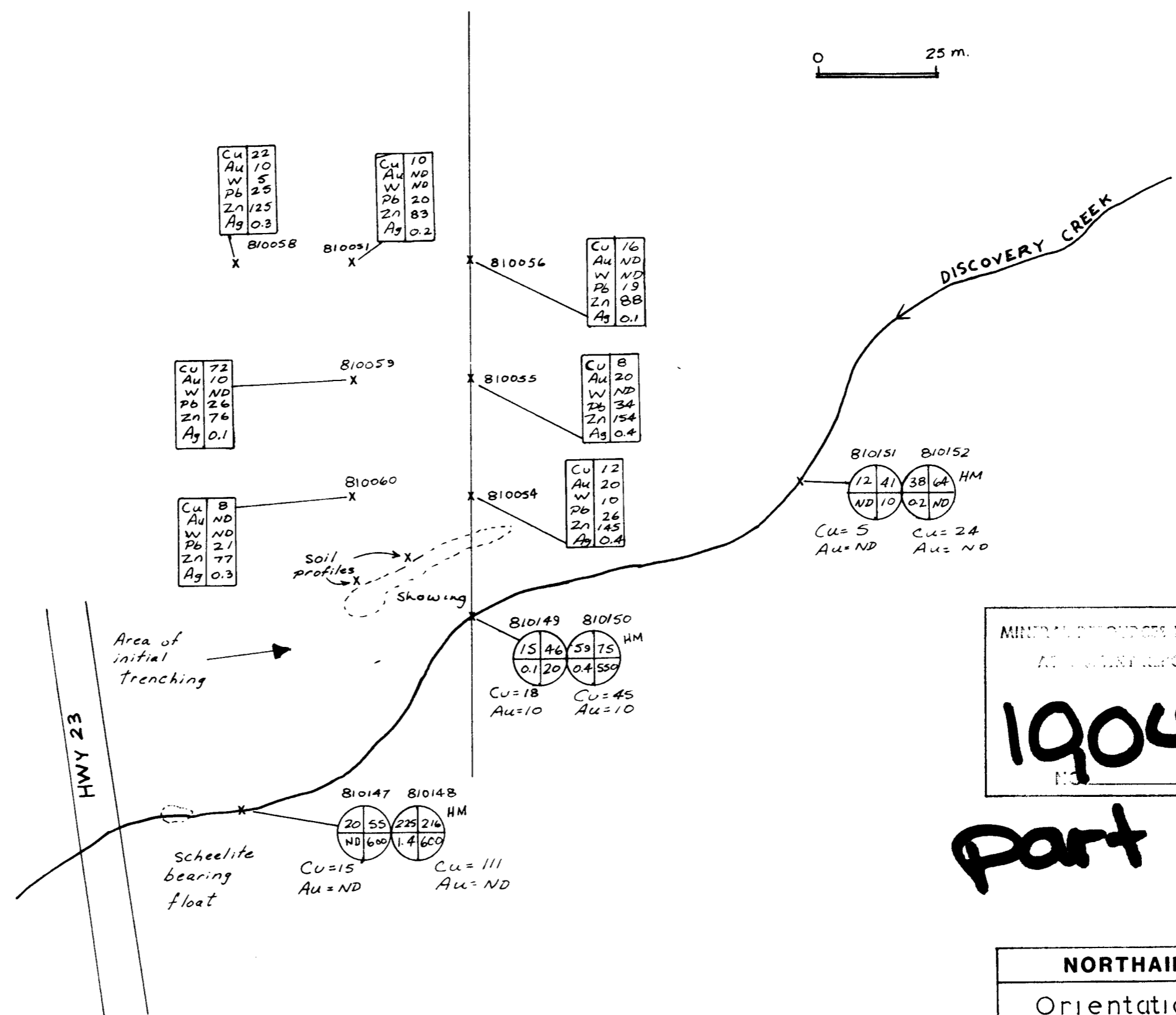
Profile "A" (Table II) shows soils with pH from 4.9 to 5.7, and a distinct increase in W,Ag values with depth. The "B" horizon in this soil profile was at 8" - 12". The soils are podzols that form a thin cover over the sulphide showing.

Profile "B", also from the trench area, exhibits a reverse distribution of W, the higher value being at a shallower depth. The Ag values, though not of a high order, reveal an increase with depth.

Both profiles do not exhibit a systematic correlation of Fe,Mo or pH, with W values. Both Ag and Cu appear correlative with pH,Fe & Mn values.

A small soil grid, sampling "B" horizon soils was sampled, to the north of the showing, where the scheelite bearing horizon dipped under overlying quartz-biotite schist and silicified limestone.

The data (Fig.8 ) was analyzed for Cu,Au,Ag,Pb,Zn,W. The data shows generally low order values for all elements, with a high of 10 ppm W at sample 810055. Both those samples have the highest Pb & Zn values. Au values are generally erratic in nature.



MINERAL RESOURCES BRANCH  
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**Part 4 of 6**

<b>NORTHAIR MINES LTD.</b>	
Orientation Soils, S. Its	
Project: Thanksgiving	Drawn: R. Wang
Date:	Approved:
Scale:	Revised:
N.T.S.	Figure: 8

TABLE 2  
SOIL PROFILES "A"

<u>#</u>	<u>Depth</u>	<u>W</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>	<u>Au</u>	<u>Cu</u>	<u>Mn</u>	<u>pH</u>	<u>Fe</u>	<u>Mo</u>
810144	4"	5	36	293	ND	10	38	140	4.9	3.4	2
810143	13"	5	31	147	0.1	ND	44	170	4.9	4.5	3
810142	24"	100	42	293	0.6	10	93	260	5.3	5.7	2

SOIL PROFILES "B"

810146	12"	100	26	195	0.4	20	49	140	4.2	4.4	3
810145	21"	30	29	131	0.8	30	135	220	4.3	7.3	2

Au - p.p.b.

Fe - %

Mn - %

Others - p.p.m.



The orientation soil survey suggests that the behavior of W is erratic, though profile "A" would suggest that the best sample technique for W is at the bedrock contact, not in the "B" horizon. Additional sampling was not possible because of subsequent contamination from blasting and exploration activity. The grid and profiles both indicate the low order of associated elements in the soils and the poor development of leakage haloes through overlying bedrock and soil. The profiles are in accord with the comments of Horsnail (1979)', who indicates a general lack of mobility of tungsten in near surface conditions, and notes, in particular, the fragility of scheelite, leading to a breakdown into fine particles.

#### 4.2 Silt Orientation

A number of silts were collected (Fig. 8 ) at Discovery Creek, above & below the showing. A conventional silt was collected, along with a panned concentrate. Additional samples were collected as large volume gravels, and sieved into 3 mesh sizes,  $<10\ \mu$  ,  $10-24\ \mu$  ,  $>24\ \mu$  . The sieved gravel samples were analyzed as whole rock samples.

The objectives of this stratified sample pattern was based on the following:

- a) It was observed that scheelite, where noted, could be panned to give a visually enhanced smear.
- b) Because of the fragility of scheelite, it appeared probable that fine grained particles of scheelite would be concentrated in the fine mesh fraction. There was a possibility that standard procedures on silt samples could lead to a reduced contrast.

'Horsnail R.F. (1979): The Geology of Tungsten, p 18, Proc. of the 1st Inter. Tungsten Symposium, Stockholm, 1979.

The results of the orientation survey were ambivalent. Though sampling was carried out prior to exploration activity, there had been sufficient contamination from initial small blasts to produce contamination.

Samples 810147, 810148 (panned concentrate) and 810149, 810150 (panned concentrate) show an enhancement of Pb, Zn and W in the panned concentrate and the value of panning procedures to enhance or clarify geochemical variations.

The three gravel samples, each having a sieved fraction and crushed for analysis, likewise show the enhancement in the fine mesh fraction.

On the basis of the silt orientation, it was decided to utilize silt, panned silt and crushed gravel samples (in 3 mesh sizes) for geochemical exploration in areas of known or suspected scheelite occurrences. The other areas, where geological control suggested a low probability of carbonate or scheelite occurrences, single (standard) silt samples were used.

#### 4.3 Rock Geochemistry

At an early stage in the exploration, a bulk sample of average material in the discovery trench was sampled to provide both geological and metallurgical data.

The information (Table III) shows a marked lack of elements where behavior in the near surface environment is better established (eg. Mo, Cu, Au, Ag, Pb, Zn). The lack of pathfinder elements in the ore zone, established by assay and visual examination, rendered geochemical exploration of reduced, but not negligible value. The variance of weathering behavior of W and Cu, Pb, Zn and Ag rendered clear analysis of litho-geochemical and soil and silt geochemistry a more subjective than objective technique.

TABLE III

Sample #9321, Weight 98 Kg.

WO <sub>3</sub> (%)	0.72
P (%)	0.80
Au (oz/T)	0.008
Ag (oz/T)	Tr.
Hg (ppm)	1
Mo (%)	0.001
S (%)	0.28
As (%)	0.02
Sb (%)	0.01
Bi (%)	0.006
Cu (%)	0.007
Mn (%)	0.17

Assays for Pb, Zn on core and specimen samples did not run  
50 ppm Pb, and 250 ppm Zn.

## 5. Soil Sampling

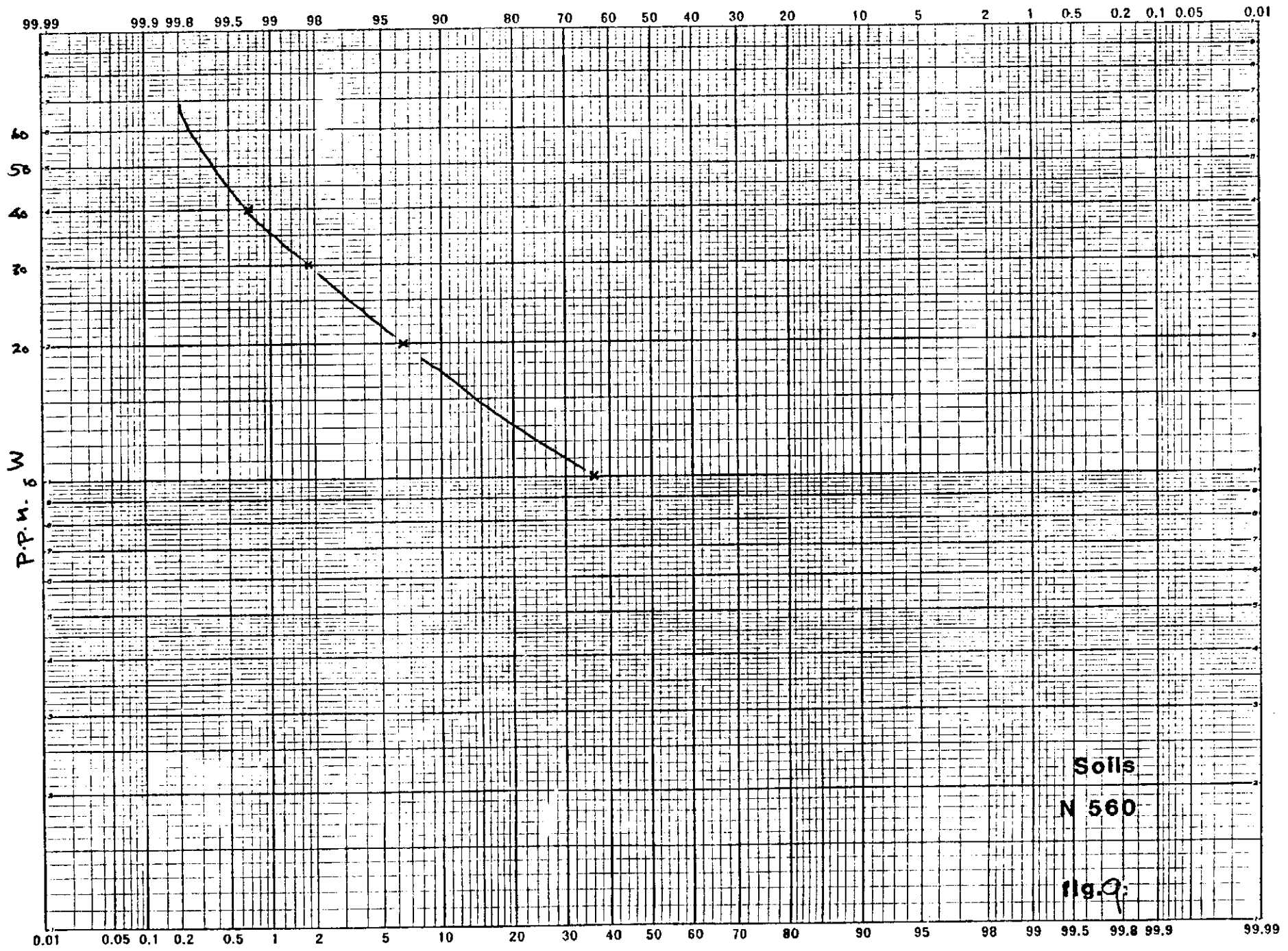
The soil sample programme on the Thanksgiving claims was essentially restricted to the area from 46 + 00E to 55 + 00 E and 500S to 800N. The grid sampling programme, (560 samples), involved sampling at 25m intervals on lines 50m apart. This sample spacing was considered to be effective for the type of environment and the nature of the mineralization. The horizon sampled was the "B" horizon.

### 5.1 Statistical Data

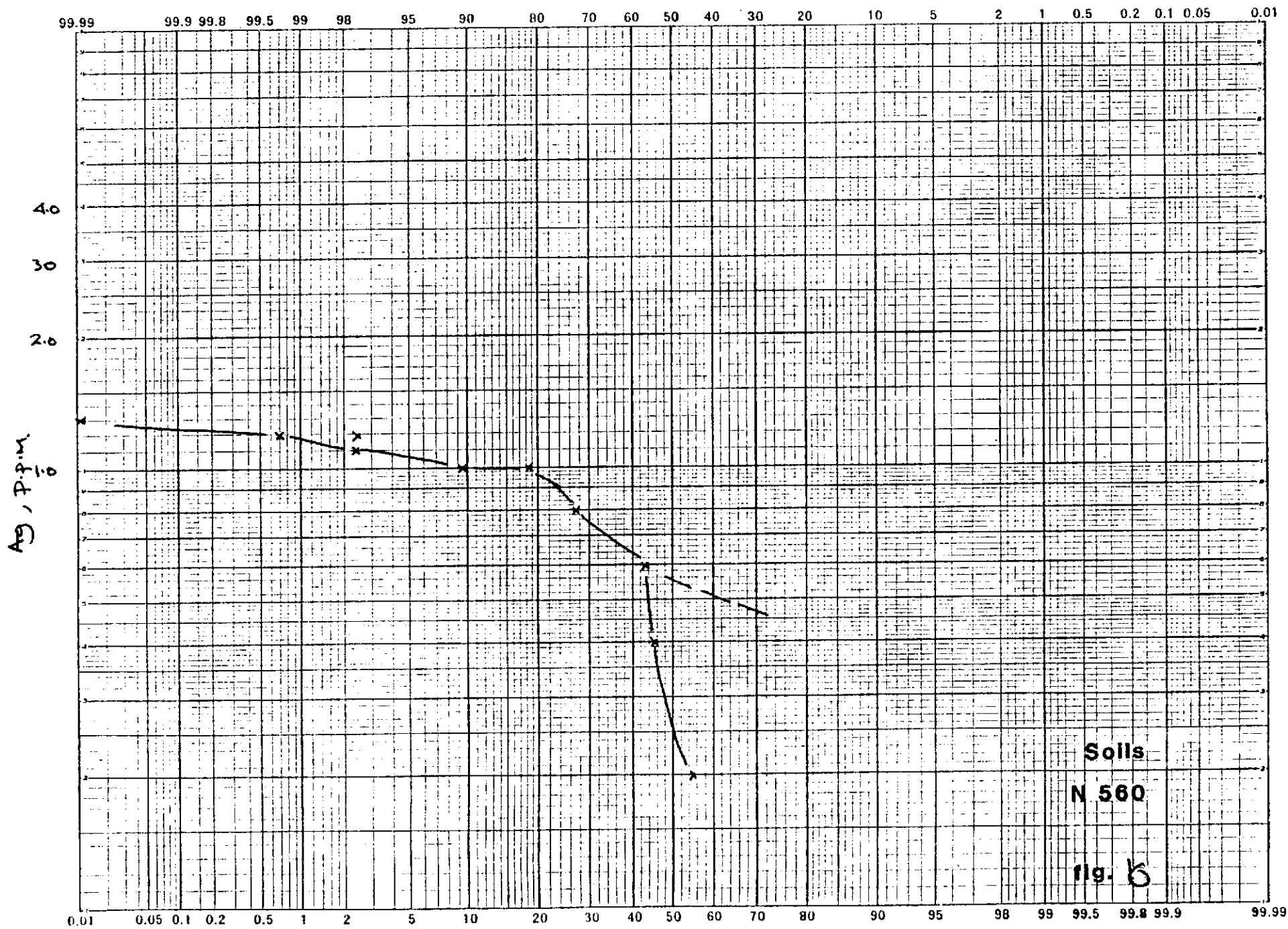
Statistical data on the soil samples was derived using a cumulative probability plot (Figs.9-16), (Table IV). The data suffers from a number of systematic problems. The values of W, in the lab utilized, are increments, giving rise to statistical bias, not necessarily of economic importance. A similar problem surrounds the Ag data, given the generally low level of the values.

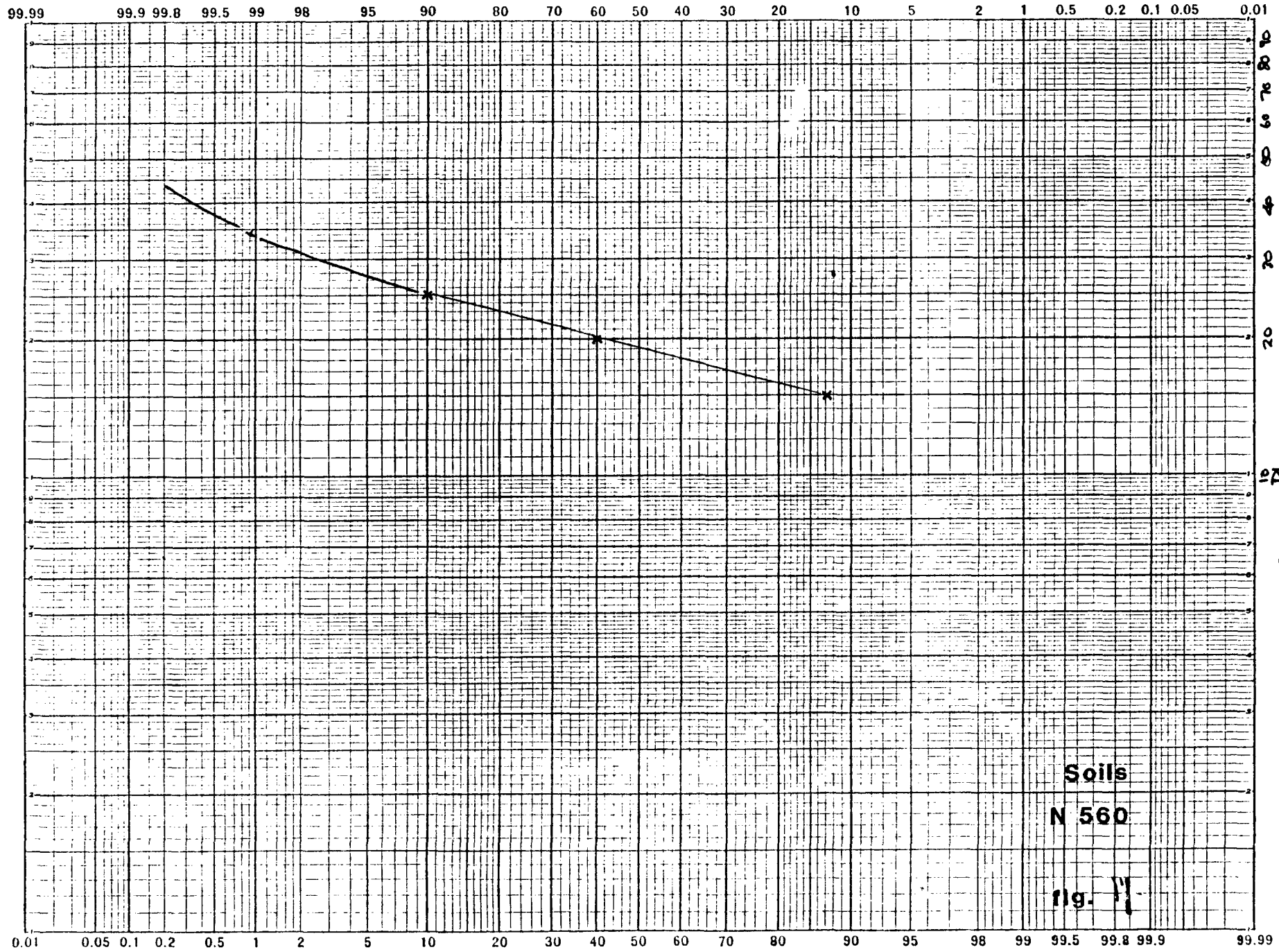
### 5.2 Tungsten in Soils

The pattern of distribution of W in the soils is irregular in its development (Fig. 13). There are three locations of highly anomalous samples ( 50 ppm W). The three locations are 49 + 50E, 175N, 50 + 00E, 75N and 47 + 00E, 100N. The anomalies appear to define, in part, a glacially derived dispersion halo from the Discovery Creek showing and dispersion from scheelite noted in trenches at 49 + 50E, 25N. The high value at 47 + 00E, 75N, appears to be related to high grade float, found along Discovery Creek, and probably float moved down slope along a glacial drainage channel. The elliptical area of "probably" anomalous materials to the S of the LCP (50E,0N) is an area where scheelite had been panned from the soil. Scheelite has been identified in sulphides in the trench at 49 + 50E, 0 + 25N. Values greater than 20 ppm W, conform, in general to the distribution of highly anomalous values in the glacially controlled dispersion zone. The exceptions are erratic, random, weak values (20 ppm, W) in the area to the NE of the showing. These values are random statistical values and not correlative with known sulphide mineralization.



Solls  
 N 560  
 fig. 9





pp. n. Pb

Soils  
N 560

fig. 11

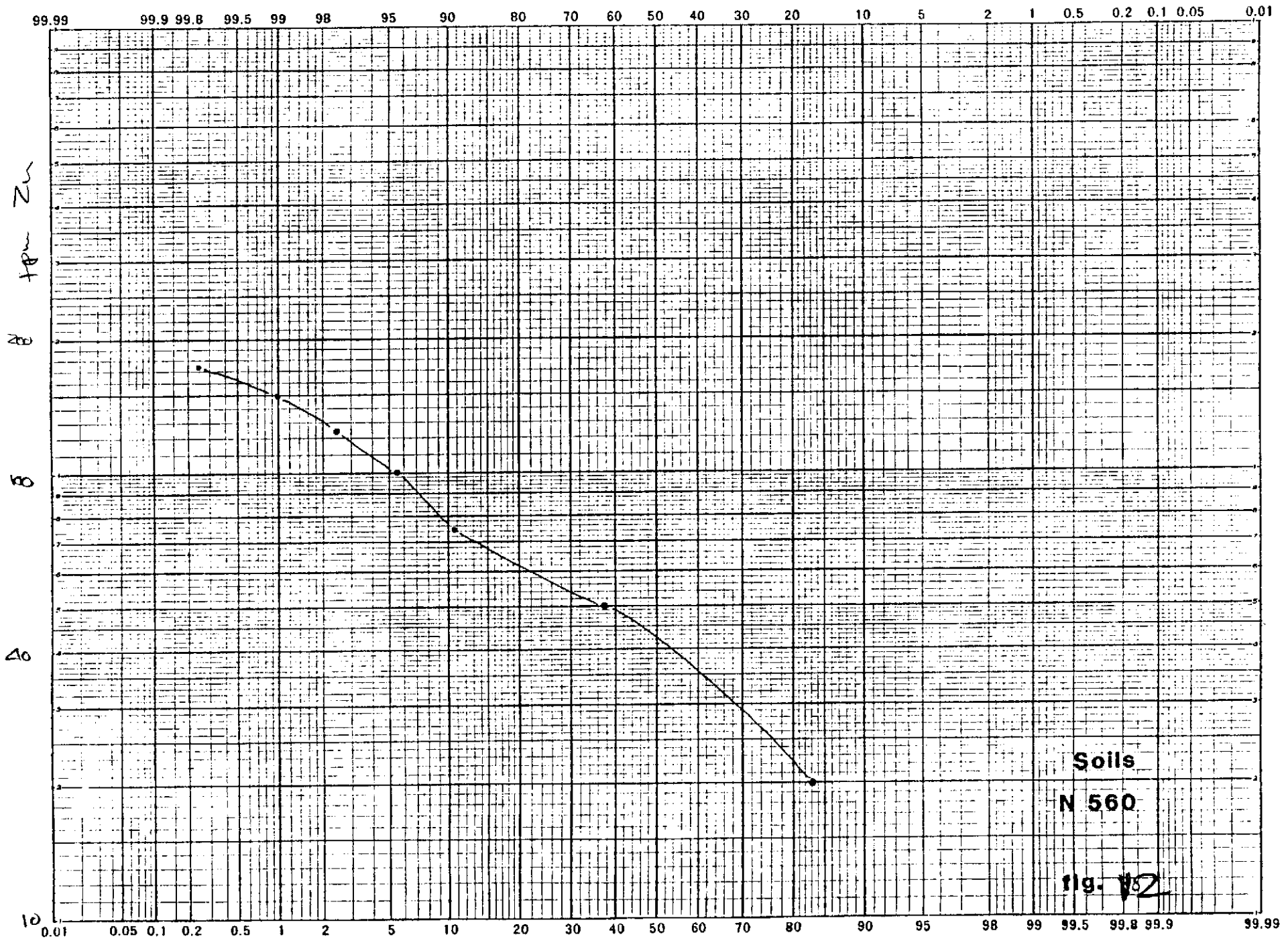




TABLE IV

		SOIL DATA				N = 560
ELEMENT	$\bar{X}$	$\rightarrow \bar{X} + 1\sigma$	$\rightarrow \bar{X} + 2\sigma$	$\rightarrow \bar{X} + 3\sigma$	$\rightarrow > \bar{X} + 3\sigma$	
Pb	19	19-24	25-30	31-38	> 38	
Zn	44	44-66	67-120	121-170	> 170	
Ag	0.6	0.6-0.89	0.9-1.09	1.1-1.39	> 1.40	
W	NA	10-19	20-29	30-50	> 50	

### 5.3 Ag Values

The Ag values are not readily correlative with any known feature. The generally low order of the values does not permit any high degree of confidence in geological as apart from statistical correlation. An isolated high value (5 ppm Ag) at 50E, 275N is correlative with the presence of a thrust plane. However the pattern of silver values does not exhibit any marked degree of correlation with the trace of the thrust plane. A tenuous correlation may be drawn that the hanger wall of the thrust plate is correlative with low order elevated silver background but may mark an area with thinner overburden cover. (Fig. 14)

### 5.4 Pb Values

The distribution of Pb values (Fig. 15) exhibits a better correlation with the known geology. The generally low order of the values precludes there being present any zone of sulphide mineralization with Pb (or Zn) mineralization. The best correlation that can be drawn from the distribution is a correlation with the zone of strong graphite, in meta sediments and in thrust zones, correlative with the wedge of thrust plates that trends from 498500E, 50,500 N to 50250E, 49750N.

### 5.5. Zn Values

The zinc values, because of their dispersion mechanism, exhibit (Fig. 16) a broad but variable zone, trending from 49850E, 50,500N to 50,200E, 49700N. Other data shows this zone as the locus of strongly graphitic sediments and graphitic gouge zones in the thrust plate zone. It appears that the primary response is modified by down slope and glacially smeared material to the SW of the tectonic slice. The values do not suggest a high probability of Zn (or Pb) being of value to define areas of sulphide mineralization.

### 5.6 Au, Cu Values

Some of the soils in the grid were run for Au, Cu values. The results (Fig. 17) are random in there distribution. One high Au value at , is not readily explained but does not

appear to correlate with any mineralization.

### 5.7 Follow up and Summary

Some profiles were dug to examine the character of the W anomalies.

A pit was dug at 49 + 50E, 175N, where the original soil sample had a value of 200 ppm. The results (Table V ) do not show any correlation of Pb,Zn values but a marked decrease in W with depth, reducing from 300 ppm at 8' to 20 ppm at 18". The profile appears to suggest a near surface, mechanical dispersion of W from the scheelite bearing skarn at 49 + 50E, 235N. This is in contrast to the profiles above mineralization which strongly suggested a near bedrock concentration of W. The dispersion mechanism appears to be primarily glacial.

A pit was dug at 47 + 50E, 100N, where the original soil sample ran 200 ppm. The profile at this locality ran 10 ppm W but was up slope from an anomaly of 200 ppm W. The profile exhibited an increase in W at depth but the deepest sample was low in W. A profile 15m east of the sample of 200 ppm W, all had relatively lower values in W. These profiles suggest that the dispersion of W in this area is erratic and that the character of the anomalies is related to break down of float material not to a subjacent bedrock source.

The soil sampling programme on the lower part of the Thanksgiving Property has been inconclusive for the following reasons.

1. There are no significant pathfinder elements associated with the scheelite bearing zone.
2. The lack of elements with a better known transport mechanism, makes correlations difficult.
3. The limited mobility of tungsten suggests that the mechanism of disposal of W is primarily mechanical. The fragility of W would suggest that anomalies are erratic and closely related to float or bedrock sources. The limited nature of the W anomalies suggest that soil sampling is not entirely an appropriate exploration technique.

4. The correlation of Pb + Zn with the argillaceous + graphitic sediments makes, despite the low order values, a means of tracing the thrust plate.

## 6. Silt Sampling

Silt sampling was utilized on the Thanksgiving Property for exploration purposes. The behavior of W in the surficial environment led to the development of a triple technique for examination.

- a. Conventional silt samples were utilized over wide areas of the property to determine metal distribution.
- b. A combination of silt and panned concentrate was used to detail areas of known or suspected scheelite. Observation in the field had shown that scheelite could be successfully concentrated by panning. This appeared to be a effective method of enhancing contrasts.
- c. Large volume gravel samples were sieved into halo mesh sizes, 10 , 10-24 , 724 . This was an attempt to enhance contrasts. Samples were crushed and analyzed as whole rock samples. The premise for this was the concern that conventional treatment of silt samples might lead to a loss of fine grained scheelite by sliming or be adhesion to coarser particles.

The results of the orientation sampling suggested that all three techniques were applicable to the property.

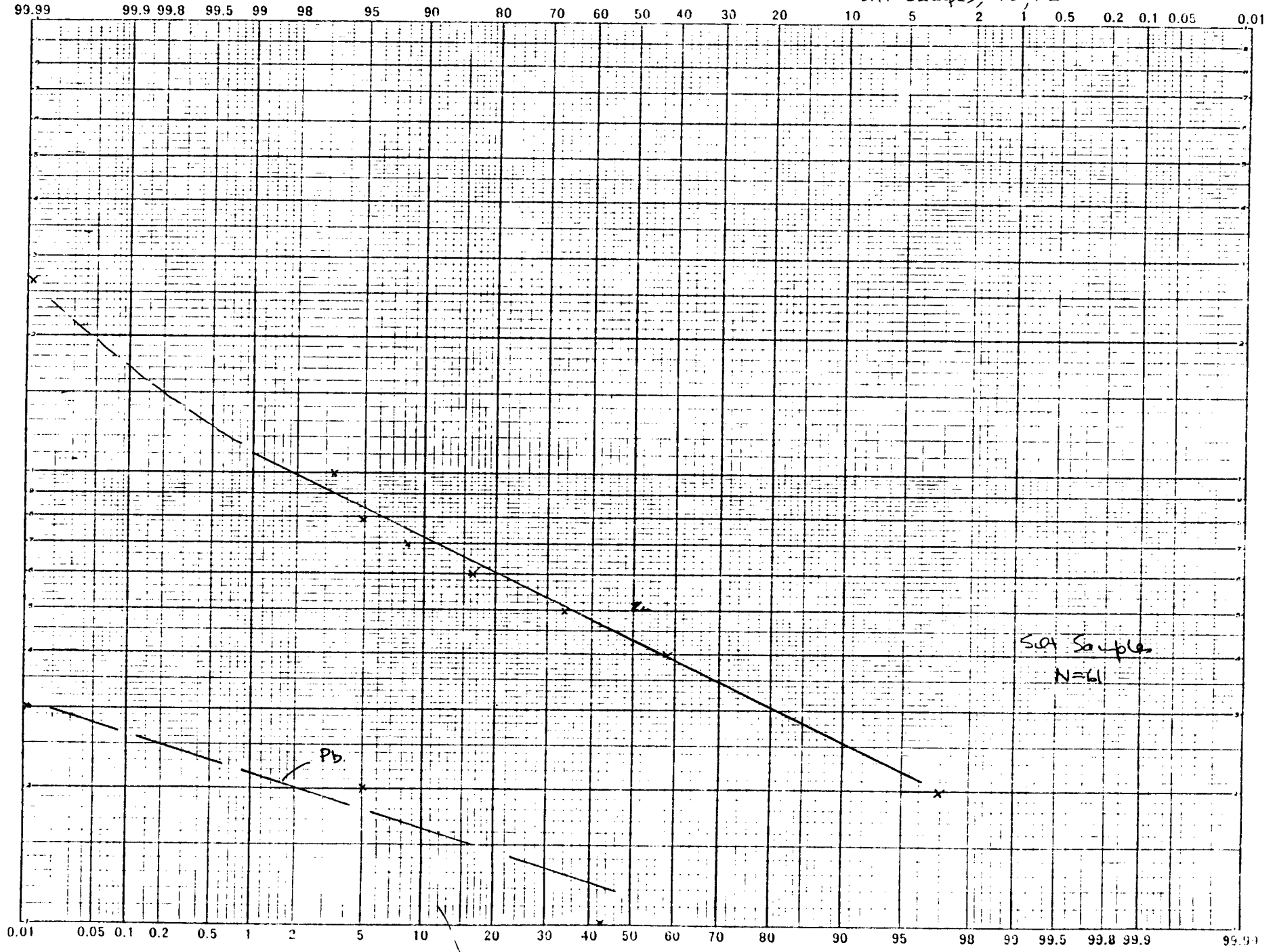
The results of the sampling programme (Fig.18 ), are to a large extent inconclusive. Statistical data for the three types of sampling are summarized in Figs.19 ,to ,23 , Table VI .

### 6.1 Conventional Silt Sampling

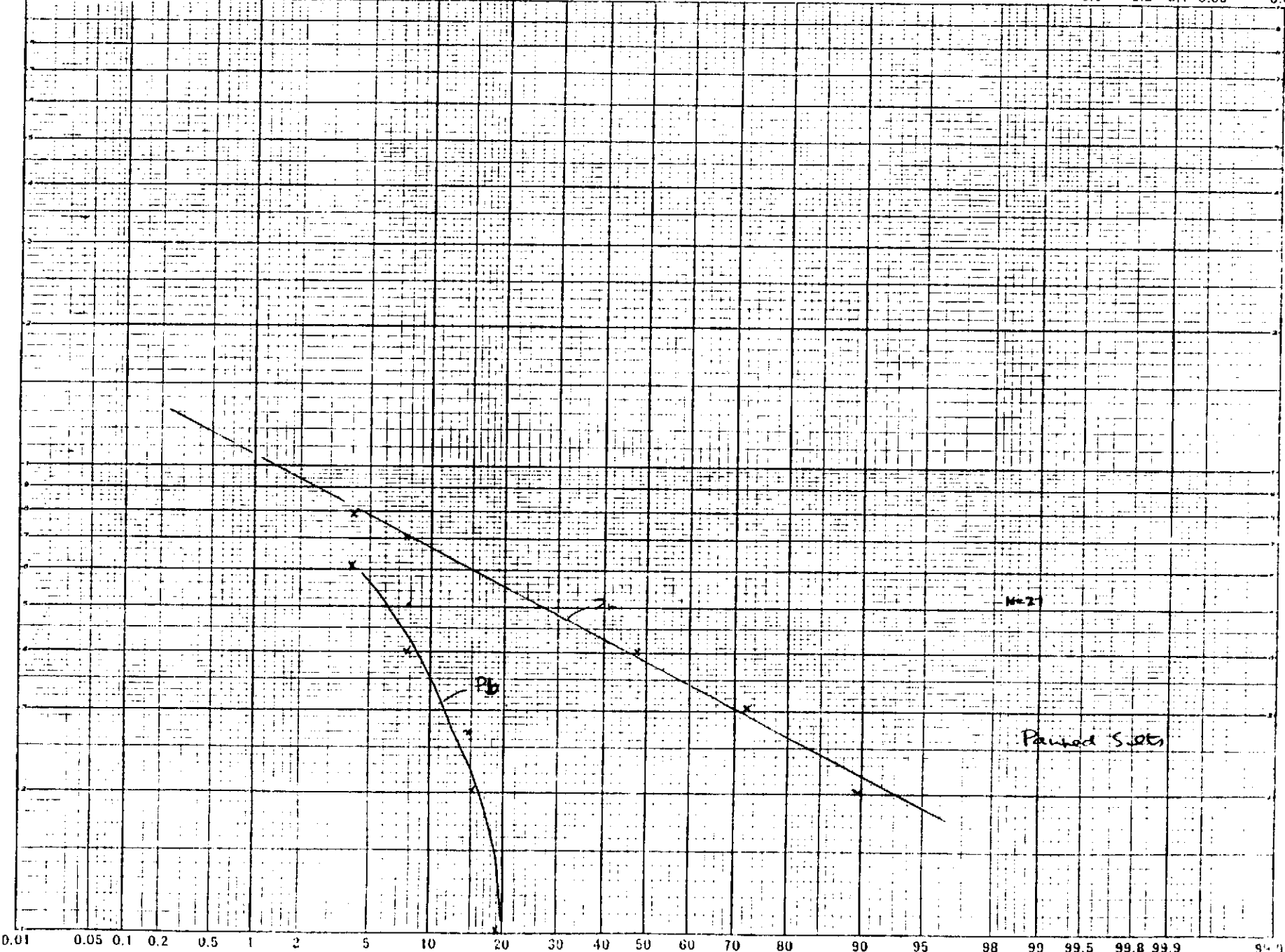
The data for conventional silts did not outline any areas of high W values. The anomalies detected are of a low order and, though statistical, do not appear to be of immediate economic interest.

The exception to this are silt samples from Hell Roaring Creek, to the north of La For me Creek. Silt samples from that locality ran high values in Au (811034). Not all areas of the property were analyzed for Au, since the main showing had generally low values of Au. The significance of the (relative) high Au values at this locality is not clear. Prospecting in this

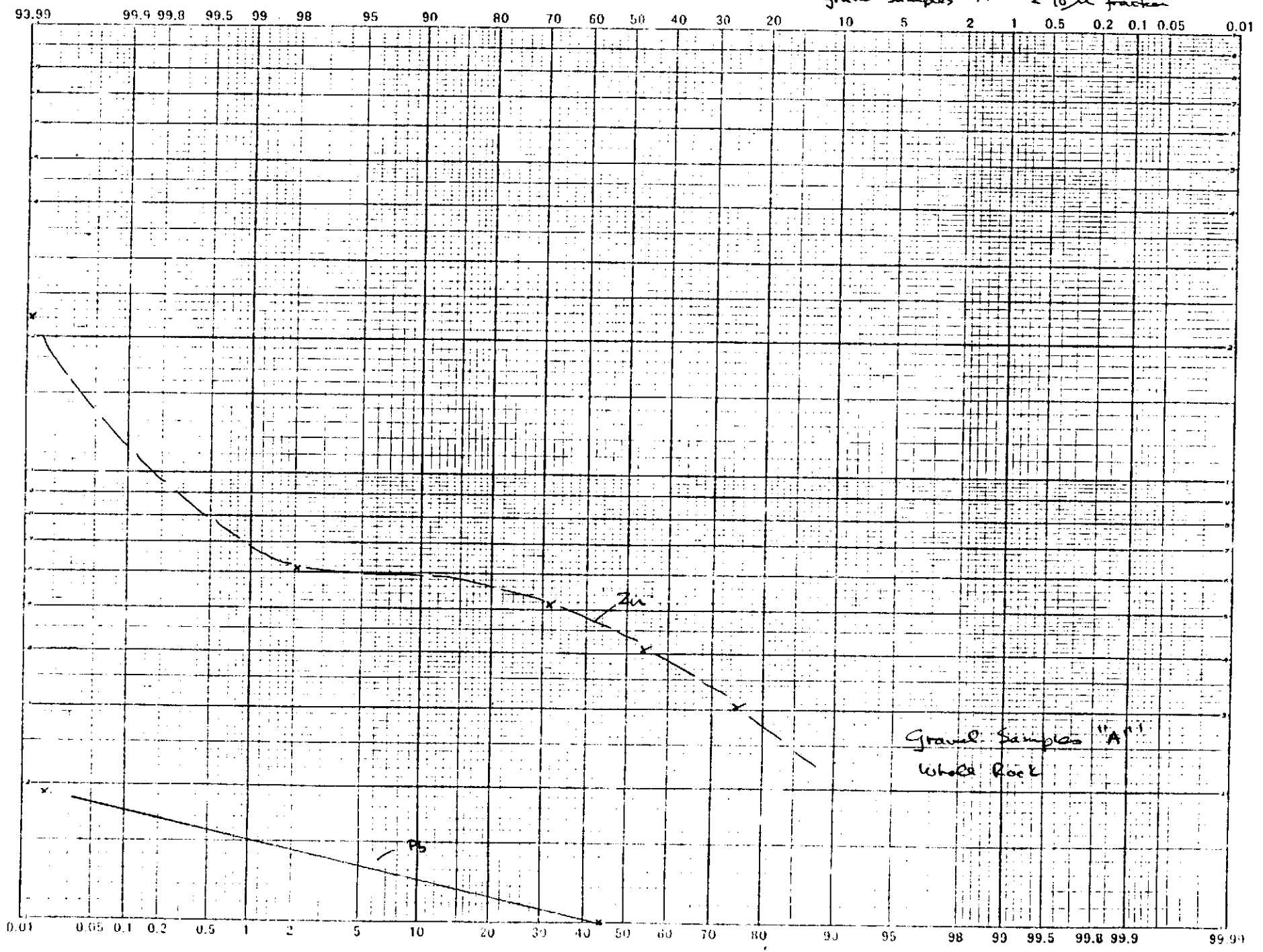
Silt samples, Pb, + Zn



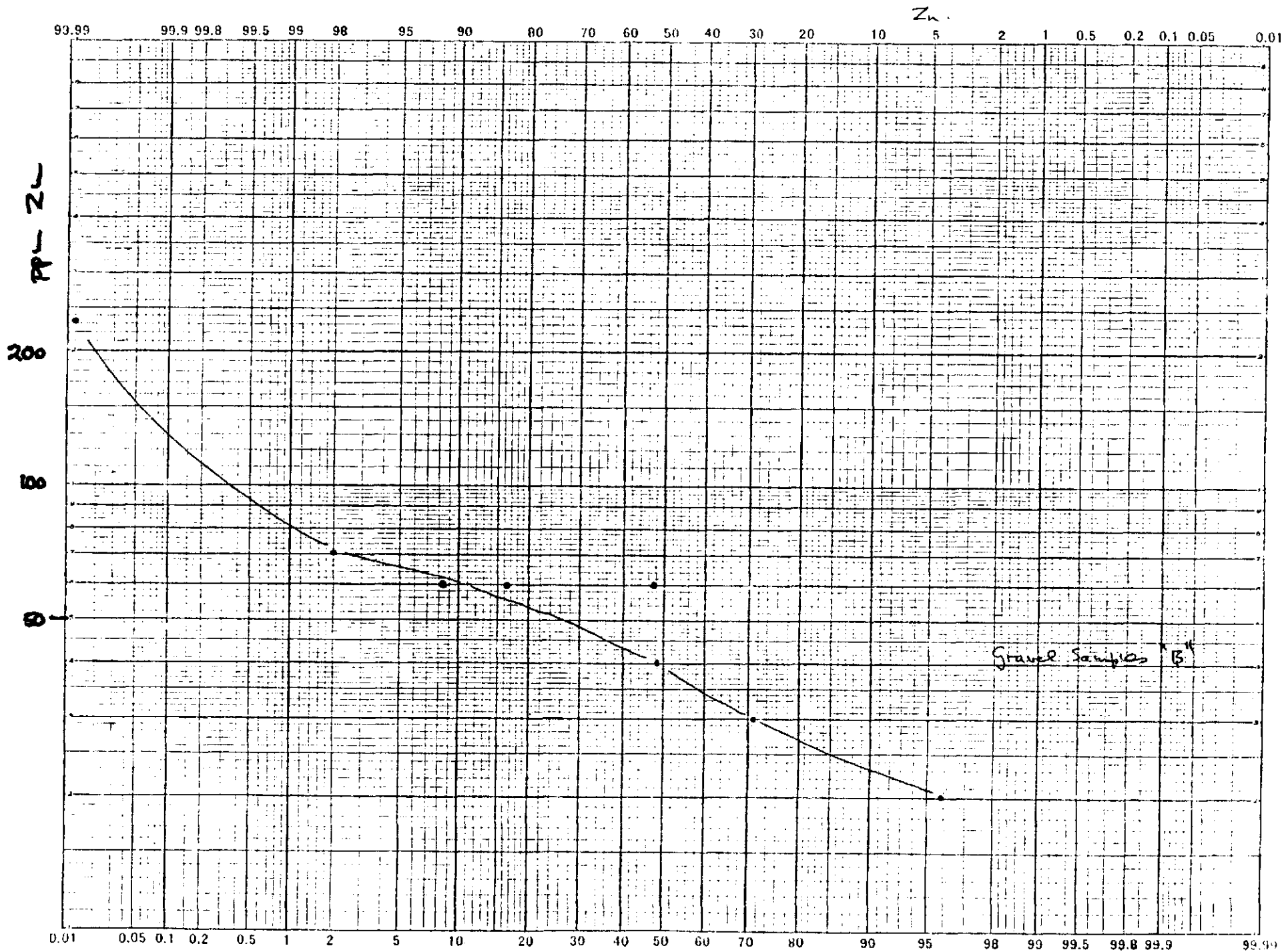
99.99 99.9 99.8 99.5 99 98 95 90 80 70 60 50 40 30 20 10 5 2 1 0.5 0.2 0.1 0.05 0.01



Gravel Samples "A" < 10 μ fraction



Gravel Samples "A"  
Whole Rock





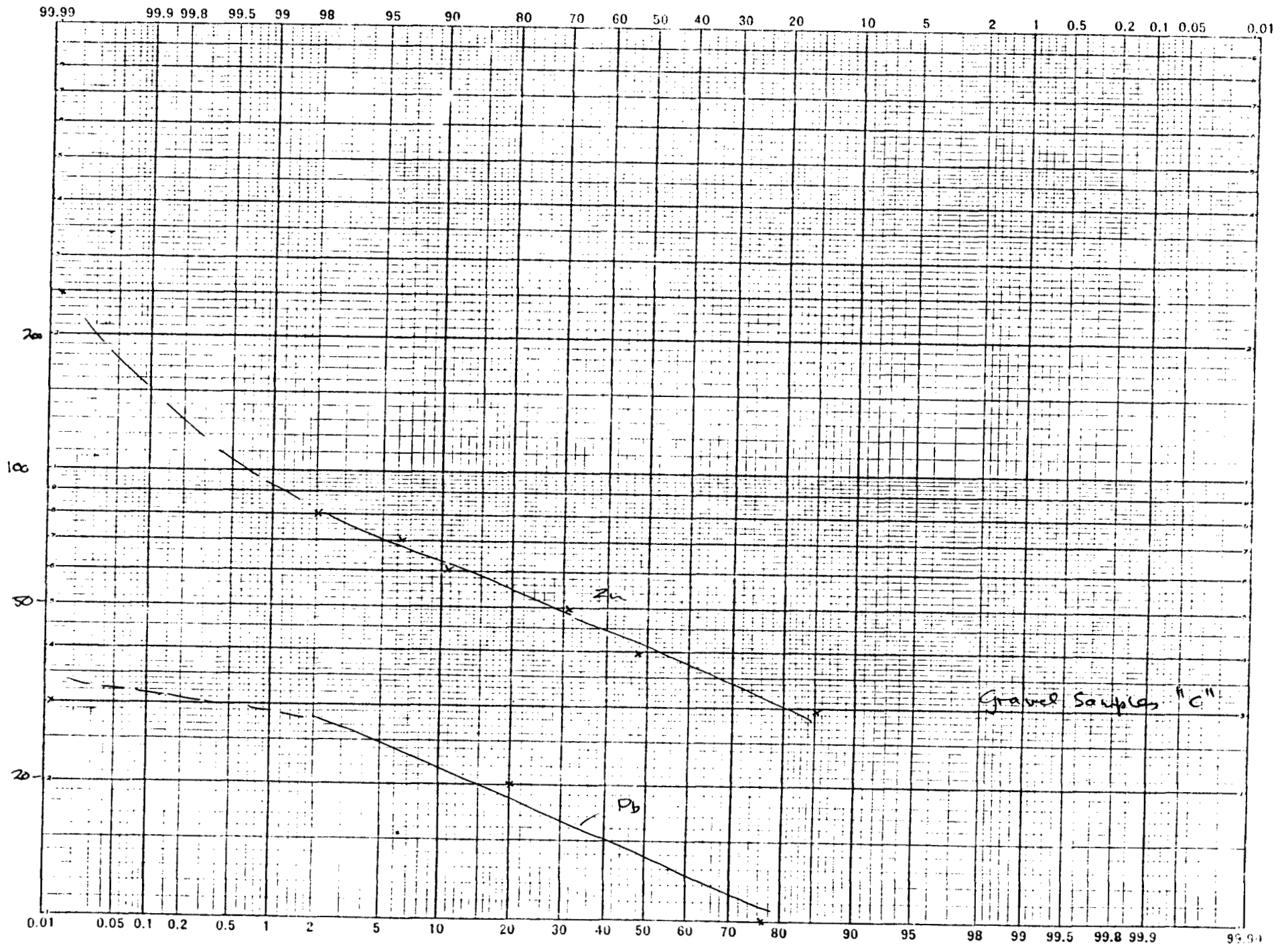


TABLE VI  
Statistics, Silt, Panned Silt and Gravel Data

SILT SAMPLES- N=63

	$\bar{x}$	$\rightarrow x + 1\sigma$	$\rightarrow x + 2\sigma$	$\rightarrow x + 3\sigma$	$7\bar{x} + 3\sigma$
Pb	10	10-15	16-22	22-29	30
Zn	43	43-64	65-100	101-150	150
Ag		No Statistics			1.5
W		No Statistics			20

PANNED SILTS - N=28

Pb	10	10-20	20-60	?	60
Zn	38	39-60	61-80	80-140	140
Ag		No Statistics			1.5
W		No Statistics			20

GRAVEL SAMPLES "A" - (< 10 $\mu$ ) N = 48

Pb		No Statistics			15
Zn	42	43-52	53-64	65-100	100
Ag		No Statistics			1.5
W		No Statistics			20

GRAVEL SAMPLES "B"

Pb		No Statistics			15
Zn	38	39-52	53-66	66-120	120
Ag		No Statistics			1.5
W		No Statistics			20

GRAVEL SAMPLES "C"

Pb	14	14-21	22-26	27-29	29
Zn	40	40-58	59-74	75-120	120
Ag		No Statistics			1.5
W		No Statistics			20

locality had outlined a carbonate zone with irregular, bedding controlled pyrrhotite zones. A complete follow up of the area was not carried out.

### 6.2 Panned Silts

Panned silts had been demonstrated to be effective in enhancing anomalous areas. The technique was applied widely in the property. However the area where it was successful was an area with known scheelite but (recent) contamination (samples were collected prior to Northair Exploration efforts). It is possible that with prolonged weathering the scheelite goes to a slime and is dispersed rapidly.

The results of the panned silts exhibit a generally low order anomalies that could not be correlated with known geology.

A follow up of the low order anomalies was not carried out in the 1981 field season.

### 6.3 Gravel Samples

The whole gravel samples were utilized as a proxy for lithogeochemical sampling. The values, as with other silt sampling, was, low order values whose significance was not at all evident. The exception being the area at 51,000E, 48,300N, where the values, 10-20 ppm W were (low) but consistent. This area is one where a thrust plate cuts across a zoned diorite-monzonite stock. No sulphides were recognized in the field. The data may suggest, but not prove, that the zoned intrusive may carry a higher background value of W but lack a suitable concentration mechanism for economic interest.

Specimen gravels should be subject to microscope examination to check any calcsilicate mineralogy.

## 7. Conclusions

- 1) The reconnaissance geochemical programme on the W side of the Columbia does not suggest any economic importance be attached to this area at the present time.
- 2) The reconnaissance to the north of La Forme Creek has outlined areas of some economic importance whose significance cannot be assessed at the present time. Further work should be done in this area.
- 3) The soil sampling programme was largely inconclusive, given the lack of pathfinder elements, the behavior of scheelite under near surface conditions and the lack of correlation of W with other elements in the soils. The overburden depth is such that bedrock/cover sampling does not appear to be justified, at the present time.
- 4) The hierarchial silt sampling programme is more a technical rather than economic success. The silts of interest are from the prospecting to the north of La Forme Creek. While the low order W values do not appear to be of immediate interest, the retained fractions from the silts could be profitably examined for the presence (or otherwise) of calcsilicate mineralogy from skarn units.
- 5) The detailed programme has failed to significantly extend the areas of scheelite, or skarn horizons. It appears that the behavior of tungsten in the surface environment is erratic enough for any dragnostoc signature to be blurred or eliminated by late glacial or post glacial deposits.
- 6) Though the results are ambiguous, the southern extension of the thrust plate to 51,000E, 48,000N, could be soil sampled though results may be far from conclusive.

ASSESSMENT COSTS, GEOCHEMICAL EXPLORATION

<u>I. SOIL SAMPLING</u>	<u>NO. OF UNITS</u>	<u>UNIT COST</u>	<u>TOTAL</u>
Wages - R. Hogarth, June 3,4	2	130.00	260.00
- B. Lang, June 3,4,5,6,7	5	73.56	367.90
- M. Wallace, June 3,4,5,6	4	73.56	294.24
- B. Lang, Aug 14,15,17	3	73.56	220.68
- R. Duncan, Aug 14,15,17	3	55.17	165.51
Support Costs - 20 man days	20	43.50	870.00
Vehicle Costs (Prorated)			120.00
Geochemical Assay Costs			<u>1,723.53</u>
	<u>TOTAL</u>		<u>4,021.76</u>

II. SILT SAMPLING

## Wage Costs:

B. Lang - May 17,19,21			
June 9,10,11,12,20-24			
Aug 16,18	14	73.56	1,029.84
R. Wares - June 20	1	132.65	132.65
M. Wallace - June 9	1	73.56	73.56
B. Buckland - June 10	1	43.25	43.25
B. Lang (Sample preparation) June 25,			
July 1,2	3	73.56	320.68
R. Wares (Supervision) June 21,22			
July 10			
August 17	4	132.65	530.60

## Support Costs:

Room & Board, 24 man days	24	43.50	1,045.44
Vehicle Costs (Prorated)			420.00
Geochemical Assay Costs			<u>6,025.37</u>
	<u>TOTAL</u>		<u>9,621.39</u>

III. RECONNAISSANCE, WEST SIDE

## Wage Costs:

R. Hogarth, May 16-29 inc,	14	130.00	1,820.00
B. Lang, May 14,15,16	3	73.56	220.68
M. Wallace, May 14,15,16	3	55.17	165.51

## Support Costs:

Room & Board, 20 man days	20	43.50	870.00
Vehicle Costs			1,011.50
Assay Costs			<u>1,423.35</u>
	<u>TOTAL</u>		<u>5,511.04</u>

GEOCHEMICAL COSTS

TOTAL 1,2,3	19,154.19
-------------	-----------

GEOCHEMICAL COSTS APPLIED, AS PER NOTICE OF WORK	15,918.58
--	-----------

## GEOCHEMICAL COSTS:

a) Sample Preparation	0.60 per sample
b) Assay for Pb,Zn,Ag	3.25 per sample
c) Assay for W	3.75 per sample
d) Assay for Au.	4.30 per sample
e) Assay for Cu,Pb,Zn,Ag	4.00 per sample

## GRAVEL SAMPLES:

a) Samples Preparation	2.25
b) Cu,Pb,Zn,Ag	4.00
c) Au.	4.30
d) W	3.75



3. Method of Analysis

- (a) The fused samples were then dissolved in demineralized water by heating in a hot water bath.
- (b) A fixed volume was subsequently adjusted.
- (c) An aliquot from each sample for tungsten analysis is developed in a strongly acid (HCl) solution of stannous chloride using a thiocyanate as the complexing agent.
- (d) The tungsten-thiocyanate complex was extracted into 1/2 ml of a carbon tetrachloride and tri-n-butyl phosphate solvent mixture.
- (e) The concentration of tungsten was calculated colorimetrically by comparing the intensity of its color organic layer with a set of known standards prepared in a similar fusion as the samples.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and the laboratory staff.

---

Eddie Tang  
Vangeochem Lab Ltd.





VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE., NORTH VANCOUVER, B.C., CANADA

986-5211  
604-XXXXXXX

V7P 2S3

October 15, 1981

To: Scottie Gold Mines  
#1450 - 625 Howe Street  
Vancouver, B.C. V6C 2T6

From: Vangeochem Lab Ltd.  
1521 Pemberton Avenue  
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine hot acid soluble  
Pb, Zn & Ag in geochemical silt, soil, and rock samples.  
For Report # 81-78-001

1. Sample Preparation

- (a) Geochemical rock, silt, and soil samples were shipped to the lab by the above client. The rock samples were either stored in 8" x 13" plastic bags or in 4" x 9" cotton mailing bags. The silt and soil samples were stored in the wet-strength 3½" x 6½" Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven over-night.
- (c) The dried soil or silt samples were sifted by hands, using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction materials were rejected and the minus 80-mesh fraction materials were transferred into coin envelopes for analyses later.
- (d) The dried rock samples were crushed by a jaw crusher and pulverized by using a disc mill to minus 100-mesh. The pulverized samples were stored in the 4" x 6" paper bags for later analysis.

.....2

2. Method of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively.)
- (c) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

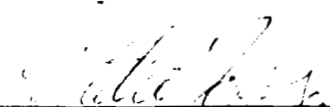
Pb, Zn & Ag analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 with their respective hollow cathode lamps. The digested samples were aspirated directly into an air and acetylene mixture flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption units.

4. Back Ground Correction

A Hydrogen continuum lamp is used to correct the Silver background interferences.

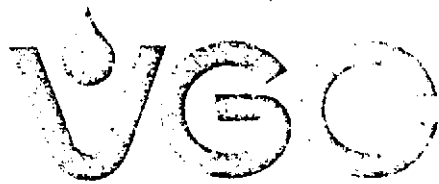
5. Analysts

The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and the laboratory staff.

  
\_\_\_\_\_  
Eddie Tang

VANGEOCHEM LAB LTD.

ET:jl



VANGEOCHEM LAB LTD. 1521 PEMBERTON AVE. NORTH VANCOUVER, B.C. CANADA 986-5211 604-~~xxxxxxx~~

V7P 2S3

October 15, 1981

To: Scottie Gold Mines  
#1450 - 625 Howe St.  
Vancouver, B.C. V6C 2T6

From: Vangeochem Lab Ltd.  
1521 Pemberton Avunue  
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine hot acid soluble  
Mo, & Cu in geochemical silt, soil and rock samples.  
For Report # 81-78-001

1. Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 3½ x 6½ Kraft paper bags and rock samples in 4" x 6" Kraft paper bags.
- (b) The wet samples were dried in a ventilated oven.
- (c) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieves. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (d) The dried rock samples were crushed by using a jaw crusher and pulverized to 100-mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Methods of Digestion

- (a) 0.50 gram of the minus 80-mesh samples was used. Samples were weighed out by using a top-loading balance.
- (b) Samples were heated in a sand bath with nitric and perchloric acids (15% to 85% by volume of the concentrated acids respectively).

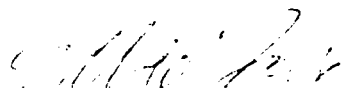
.....2

- (C) The digested samples were diluted with demineralized water to a fixed volume and shaken.

3. Method of Analysis

Mo, & Cu analyses were determined by using a Techtron Atomic Absorption Spectrophotometer Model AA4 or Model AA5 with their respective hollow cathode lamps. The digested samples were aspirated directly into an air and acetylene flame, but Mo digestion were aspirated into an acetylene and nitrous flame. The results, in parts per million, were calculated by comparing a set of standards to calibrate the atomic absorption unit and displayed in a strip chart recorder.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and the labroatory staff.

  
\_\_\_\_\_  
Eddie Tang

VANGEOCHEM LAB LTD.

ET:jl



October 15, 1981

To: Scottie Gold Mines  
#1450 - 625 Howe Street  
Vancouver, B.C. V6C 2T6

From: Vangeochem Lab Ltd.  
1521 Pemberton Avenue  
North Vancouver, B.C. V7P 2S3

Subject: Analytical procedure used to determine Aqua Regia soluble gold  
in geochemical samples.

For Report # 81-78-001

1. Method of Sample Preparation

- (a) Geochemical soil, silt or rock samples were received in the laboratory in wet-strength 4 x 6 Kraft paper bags or rock samples sometimes in 8" x 12" plastic bags.
- (b) The dried soil and silt samples were sifted by hands using a 8" diameter 80-mesh stainless steel sieve. The plus 80-mesh fraction was rejected and the minus 80-mesh fraction was transferred into a new bag for analysis later.
- (c) The dried rock samples were crushed by using a jaw crusher and pulverized to 100 - mesh or finer by using a disc mill. The pulverized samples were then put in a new bag for later analysis.

2. Method of Digestion

- (a) 5.00 - 10.00 grams of the minus 80-mesh samples were used. Samples were weighed out by using a top-loading balance into beakers.
- (b) 20 ml of Aqua Regia (3:1 HCL : HNO<sub>3</sub>) were used to digest the samples over a hot plate vigorously.
- (c) The digested samples were filtered and the washed pulps were discarded and the filtrate was reduced to about 5 ml.
- (d) The Au complex ions were extracted into diisobutyl ketone and thiourea medium. (Anion exchange liquids "Aliquot 336").

... 2

(e) Separate Funnels were used to separate the organic layer.

3. Method of Detection

The gold analyses were detected by using a Techtron model AA5 Atomic Absorption Spectrophotometer with a gold hollow cathode Lamp. The results were read out on a strip chart recorder. A hydrogen lamp was used to correct any background interferences. The gold values in parts per billion were calculated by comparing them with a set of gold standards.

4. The analyses were supervised or determined by Mr. Conway Chun or Mr. Eddie Tang and his laboratory staff.

  
\_\_\_\_\_  
Eddie Tang

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ET: j1









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 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

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 AREA CODE: 604

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Northair Mines Ltd.  
 #1450 - 625 Howe Street  
 Vancouver, B.C. V6C 2T6

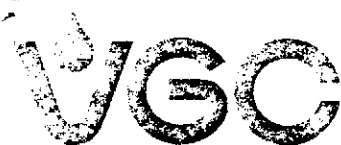
Attention:

Report No: 81-69-016 Page 1 of 1  
 Samples Arrived: July 9, 1981, From File  
 Report Completed: July 20, 1981  
 For Project: Thanksgiving  
 Analyst: E.T. & VGC Staff  
 Invoice: 6315 Job # 81-189

Sample Marking	Cu ppm	Ag* ppm
810067	11	0.4
70	21	0.3
72	7	nd
74	24	0.2
76	15	nd
78	18	0.2
80	23	0.2
83	54	0.4
86	42	0.2
92	14	0.3
96	9	0.1
98	8	0.1
099	15	0.3
301	9	nd
04	16	nd
06	15	0.1
10	29	0.1
12	43	nd
13	54	0.2
16	9	0.1
17	16	nd
19	22	0.1
23	31	nd
29	16	nd
31	16	nd
34	11	nd
36	50	nd
37	8	nd
40	42	0.1
44	13	nd
50	7	0.1
55	12	nd
57	11	nd
58	23	nd
60	18	nd
62	20	0.1
810368	44	nd

REMARKS: Ag\* = Ag background corrected.

Signed:



VANGEOCHEM LAB LTD.  
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Thanksgiving - file

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 AREA CODE: 604

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Northair Mines Ltd.  
 #1450- 625 Howe Street  
 Vancouver, B.C. V6C 2T6  
 Attention:

Report No: **81-69-007** Page 1 of 2  
 Samples Arrived: **May 21, 1981**  
 Report Completed: **June 4, 1981**  
 For Project: **412-07-NRM**  
 Analyst: **E.T. & VGC Staff**  
 Invoice: **6178** Job # **81-078**

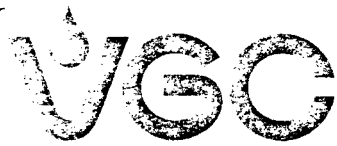
Sample Marking	W ppm				
810013	5				
14	5				
15	nd				
16	nd				
17	5				
18	nd				
19	nd				
20	nd				
21	nd				
22	5				
23	nd				
24	5				
25	5				
26	5				
27	nd				
28	5				
29	10				
30	5				
31	5				
32	nd				
33	5				
34	5				
36	10				
37	5				
38	5				
39	nd				
40	5				
41	5				
42	10				
43	5				
44	5				
45	10				
46	nd				
47	5				
48	5				
810049	nd				
810101	nd				
02	nd				
810103	nd				

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REMARKS: One copy sent to Revelstoke, B.C.

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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-IN ACCOUNT WITH-  
**Northair Mines Ltd.**

Report No: **81-69-007**

Page **2** of **2**

Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample Marking	W ppm				
810104	nd				
05	5				
06	nd				
07	5				
09	nd				
10	nd				
11	nd				
12	5				
13	40				
14	nd				
15	nd				
16	5				
17	5				
18	nd				
19	5				
20	5				
21	10				
22	nd				
23	nd				
24	5				
25	nd				
26	5				
27	5				
28	5				
29	5				
30	10				
31	5				
23	5				
33	nd				
34	5				
35	nd				
36	nd				
37	5				
38	5				
39	nd				
40	5				
810141	nd				
810151	10				
52	5				
810153	nd				

REMARKS:

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

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# Certificate of Geochemical Analyses

Client: Northair Miens Ltd.

Northair Miens Ltd.

Report No: 81-69-004

Page 2 of 3

Samples Analyzed:

Report Completed:

For Project:

Analyst:

Sample No.	Pb ppm	Zn ppm	Ag* ppm
810087	41	100	0.2
88	22	26	0.2
89	24	45	nd
91	13	51	0.2
92	18	45	0.3
93	15	24	0.2
810094	12	16	nd
810142	42	293	0.6
43	31	147	0.1
44	36	141	nd
45	29	131	0.8
46	26	195	0.4
47	20	55	nd
48	12	48	nd
49	15	46	0.1
50	12	41	nd
54	22	45	0.2
55	20	48	0.1
56	14	32	0.1
57	15	25	nd
58	17	18	0.1
59	15	44	nd
60	26	44	nd
61	62	94	0.1
62	31	40	0.3
63	8	19	0.1
64	20	32	nd
65	26	80	0.1
66	22	96	0.1
67	16	24	nd
68	25	61	nd
69	18	38	0.1
70	13	24	0.1
71	25	38	0.1
72	25	40	0.2
73	13	20	nd
74	21	43	nd
810175	30.	24	0.1

Ag\* = Ag background corrected.

Signed: 

# Certificate of Geochemical Analyses

Client: **Northair Mines Ltd.**

Report No.: **81-59-004** Page: **3** of **3**  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Sample Number	Pb ppm	Zn ppm	Ag* ppm
810176	40	99	0.3
77	22	33	nd
78	14	21	0.1
79	12	24	nd
80	10	21	0.1
81	49	188	0.2
82	40	119	0.1
83	14	16	0.1
84	10	21	0.1
85	21	18	0.1
86	40	43	0.3
87	13	20	nd
88	13	20	nd
89	16	20	nd
90	16	26	nd
91	17	32	0.1
92	19	30	nd
93	13	23	nd
94	21	42	0.2
95	19	45	0.2
96	15	31	0.2
97	10	18	0.1
98	8	5	nd
199	10	7	0.1
810200	9	5	0.1

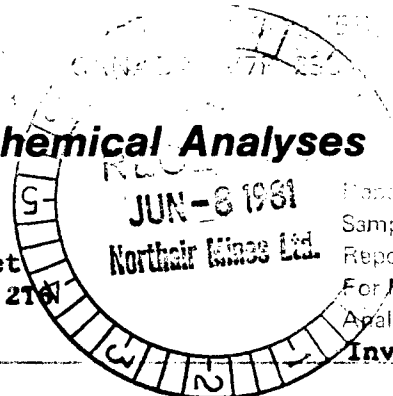
REMARKS: **Ag\* = Ag background corrected.**

Signed: 

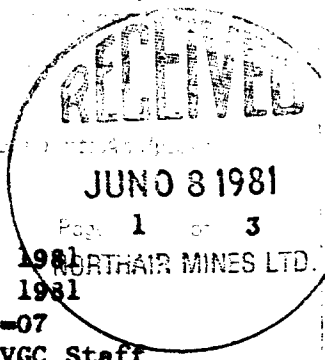
Thanksgiving - file

# Certificate of Geochemical Analyses

Northair Mines Ltd.  
#1450 - 625 Howe Street  
Vancouver, B.C. V6C 2T6



Manufacture: 81-69-006  
Samples Arrived: May 26, 1981  
Report Completed: June 4, 1981  
For Project: 412-NRM-07  
Analyst: E.T. & VGC Staff  
Invoice: 6177  
Job #81-083



Sample No.	W ppm			
810000	nd			
25	5			
50	nd			
51	nd			
52	nd			
53	nd			
54	10			
55	nd			
56	nd			
57	nd			
58	5			
59	nd			
60	nd			
61	nd			
62	nd			
63	nd			
64	nd			
65	5			
66	nd			
67	5			
68	5			
69	nd			
70	nd			
71	5			
72	nd			
73	nd			
74	nd			
75	nd			
76	nd			
77	nd			
78	5			
79	5			
80	nd			
81	nd			
82	10			
83	5			
84	5			
85	10			
810086	5			

One copy sent to Revelstoke, B.C.

Signed:

\* 1.0003 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
All values are believed to be correct to the best knowledge of the analyst based on the method and instrument used.



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**Northair Mines Ltd.**

Report No: **81-69-006**

Page **2** of **3**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	W ppm				
810087	nd				
88	5				
89	10				
91	10				
92	5				
93	5				
810094	nd				
810142	100				
43	5				
44	5				
45	100				
46	30				
47	600 /				
48	>600 /				
49	20				
50	500 /				
54	nd				
55	5				
56	5				
57	5				
58	5				
59	5				
60	10				
61	10				
62	10				
63	nd				
64	5				
65	5				
66	5				
67	10				
68	5				
69	10				
70	nd				
71	nd				
72	nd				
73	nd				
74	nd				
810175	10				

MASTER PRINTING LTD.

REMARKS:

*7 greater than*

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



# Certificate of Geochemical Analyses

Northair Mines Ltd.

Report No: **81-69-006**

Page **3** of **3**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample ID	W ppm					
810176	nd					
77	5					
78	nd					
79	nd					
80	nd					
81	10					
82	10					
83	nd					
84	nd					
85	5					
86	5					
87	nd					
88	nd					
89	nd					
90	nd					
91	nd					
92	nd					
93	nd					
94	nd					
95	5					
96	nd					
97	5					
98	nd					
199	nd					
810200	nd					

Signed: 

% Mo = 1.6092 % MoS<sub>2</sub>

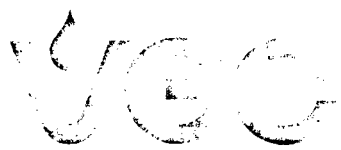
1 Troy oz./ton = 34.29 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
 1521 BENDERBENTON AVE.,  
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*Thompson*

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 AREA CODE: 604

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# Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Northair Mines Ltd.  
 #1450 - 625 Howe Street  
 Vancouver, B.C. V6C 2T6

Attention:

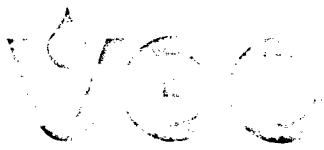
Report No: 81-69-008 Page 1 of 3  
 Samples Arrived: June 1, 1981  
 Report Completed: June 8, 1981  
 For Project: 412-07-NRM  
 Analyst: E.T. & VGC Staff  
 Invoice: 6184 Job # 81-093

Sample Marking	Pb ppm	Zn ppm	Ag* ppm		
810095	19	60	0.4		
96	13	79	0.1		
97	18	53	0.1		
98	14	50	0.1		
99	24	41	0.3		
810100	19	50	0.1		
810201	10	44	nd		
02	9	40	nd		
03	12	42	nd		
04	8	36	nd		
05	6	39	0.1		
06	11	39	nd		
07	20	37	nd		
08	40	39	0.1		
09	8	30	nd		
10	10	31	0.1		
11	5	34	0.1		
12	8	26	0.2		
13	7	24	nd		
14	6	23	nd		
15	7	27	nd		
810216	6	25	nd		
810300	21	39	0.1		
01	12	68	nd		
02	20	31	0.3		
03	15	24	nd		
04	17	41	nd		
05	25	45	0.1		
06	15	21	0.1		
07	19	30	0.5		
08	12	35	nd		
10	26	61	0.1		
11	21	37	nd		
12	44	84	nd		
13	39	83	0.2		
14	28	95	0.2		
15	30	74	0.1		
16	10	44	0.1		
810317	20	36	nd		

REMARKS: Ag\* = Ag background corrected.  
 W results will be sent at a later date.  
 One copy sent to Revelstoke, B.C.

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
 1510 EASTINGTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 533-5211  
 AREA CODE: 604

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-IN ACCOUNT WITH-

Northair Mines Ltd.

Report No: **81-69-008**

Page **2** of **3**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm			
810318	10	15	nd			
19	28	31	0.1			
20	20	53	nd			
21	20	41	nd			
22	27	96	nd			
23	38	94	nd			
24	21	40	nd			
25	7	8	0.1			
26	10	14	0.1			
27	18	48	nd			
28	13	42	nd			
29	17	71	nd			
30	11	40	nd			
31	15	44	nd			
32	26	70	0.1			
33	12	26	nd			
34	9	21	nd			
35	28	31	nd			
26	22	24	nd			
37	16	32	nd			
38	20	16	nd			
39	18	18	0.1			
40	18	47	0.1			
41	18	19	nd			
42	15	15	nd			
43	9	24	nd			
44	12	18	nd			
45	11	39	nd			
46	16	30	nd			
47	23	38	nd			
48	30	33	nd			
49	56	124	0.1			
50	20	71	0.1			
50	17	34	0.1			
52	12	34	nd			
53	16	50	nd			
54	19	29	nd			
55	8	23	nd			
810356	8	22	nd			

REMARKS:

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VGC

VANGEOCHEM LAB LTD.  
 1511 DEWDEPTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 608-8011  
 AREA CODE: 604

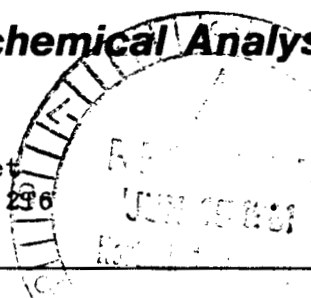
*Thomson*

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-IN ACCOUNT WITH-

Northair Mines Ltd.  
 #1450 - 625 Howe Street  
 Vancouver, B.C. V6C 2T6  
 Attention:



Report No: 81-69-010 Page 1 of 3  
 Samples Arrived: June 1, 1981  
 Report Completed: June 11, 1981  
 For Project: 412-07-NRM  
 Analyst: E.T. & VGC Staff  
 Invoice: 6197 Job #81-093

Sample Marking	W ppm				
810095	10				
96	5				
97	5				
98	5				
99	nd				
810100	5				
810201	10				
02	5				
03	5				
04	5				
05	5				
06	5				
07	nd				
08	10				
09	5				
10	20				
11	20				
12	5				
13	5				
14	5				
15	nd				
810216	50				
810300	5				
01	nd				
02	10				
03	5				
04	nd				
05	5				
06	nd				
07	5				
08	15				
10	nd				
11	10				
12	nd				
13	nd				
14	5				
15	5				
16	5				
810317	5				

REMARKS:

One copy sent to Revelstoke, B.C.

Signed: *[Signature]*

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
 1511 ALBERTSON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 833-5211  
 AREA CODE: 604

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-IN ACCOUNT WITH-  
 Northair Mines Ltd.

Report No: **81-69-010**

Page **2** of **3**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	W ppm				
810318	10				
19	nd				
20	20				
21	15				
22	10				
23	10				
24	15				
25	15				
26	10				
27	5				
28	10				
29	5				
30	15				
31	10				
23	10				
33	15				
34	5				
35	10				
36	5				
37	10				
38	nd				
39	10				
40	nd				
41	nd				
42	nd				
43	nd				
44	10				
45	10				
46	5				
47	nd				
48	15				
49	15				
50	10				
51	nd				
52	nd				
53	nd				
54	10				
55	10				
810356	nd				

REMARKS:

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
 1200 CUMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: (604) 261-1111  
 AREA CODE: 604

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-IN ACCOUNT WITH-

**Nrothair Mines Ltd.**

Attention:

Report No: **81-69-010**

Page **3** of **3**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	W ppm				
810357	nd				
58	5				
59	nd				
60	nd				
61	nd				
62	10				
63	5				
64	5				
65	5				
66	nd				
67	15				
68	20				
69	nd				
70	10				
71	10				
810372	nd ,				

REMARKS:

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
 1521 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7C 2S3

TELEPHONE: 986-5211  
 AREA CODE: 604

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-IN ACCOUNT WITH-

Northair Mines Ltd.  
 #1450 - 625 Howe St.  
 Vancouver, B.C. V7C 2T6  
 Attention:

JUN - 1 1981

Report No: 81-69-002 Page 1 of 2  
 Samples Arrived: May 21, 1981  
 Report Completed: May 28, 1981  
 For Project: 412-07-NRM  
 Analyst: E.T. & VGC Staff  
 Invoice: 6156 Job # 078

Sample Marking	Pb ppm	Zn ppm	Ag* ppm
810013	23	58	0.2
14	15	30	0.1
15	14	25	0.3
16	8	16	0.3
17	25	53	0.3
18	16	40	0.1
19	15	34	nd
20	8	20	0.1
21	11	25	0.1
22	12	32	nd
23	22	65	0.1
24	19	49	0.1
25	43	63	0.2
26	24	65	0.1
27	21	66	nd
28	22	71	0.2
29	20	70	nd
30	23	59	0.1
31	16	51	0.1
32	22	54	0.2
33	16	36	nd
34	19	60	0.1
36	34	48	0.5
37	38	89	0.4
38	31	76	0.1
39	24	30	0.4
40	45	75	0.2
41	19	24	0.1
42	28	35	0.2
43	21	34	0.4
44	30	43	0.2
45	43	198	0.3
46	15	41	nd
47	19	33	0.3
48	26	108	1.8
810049	25	89	0.4
810101	14	37	0.1
02	9	30	0.1
810103	8	21	nd

REMARKS: Ag\* = Ag background corrected.  
 W results will be sent at a later date.  
 One copy sent to Mr. Roy Wares at Revelstoke, B.C.

Signed:

% Mo x 1.6633 = % MoS<sub>2</sub>, 1 Troy oz./ton = 34.28 ppm 1 ppm = 0.0001% nd = none detected ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.





VANGEOCHEM LAB LTD.  
 1521 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 986-5211  
 AREA CODE: 604

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-IN ACCOUNT WITH-

Northair Mines Ltd.

Attention:

Report No: **81-69-002** Page 2 of 2  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm
810104	9	31	nd
05	10	25	0.1
06	8	20	0.1
07	19	55	0.1
09	6	19	nd
10	10	25	0.2
11	8	16	0.2
12	12	34	0.1
13	10	28	0.2
14	59	115	0.2
15	20	42	0.3
16	50	91	0.2
17	23	40	0.1
18	21	86	0.1
19	22	64	nd
20	30	109	0.1
21	24	62	nd
22	30	74	0.1
23	30	55	0.1
24	22	146	nd
25	20	112	0.1
26	24	151	0.1
27	19	120	nd
28	24	193	0.3
29	21	156	0.2
30	28	203	0.1
31	20	120	nd
32	31	201	nd
33	25	155	nd
34	26	123	0.1
35	19	88	nd
36	32	62	0.3
37	18	46	0.1
38	20	59	0.2
39	14	24	0.2
40	19	48	0.1
810141	10	27	0.2
810151	18	45	0.1
52	25	50	nd
810153	12	22	0.1

Ag\* = Ag background corrected.

*Thankyou's*  
 CATHICONS 300211  
 AREA CODE 604

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— IN ACCOUNT WITH —

Northair Mines Ltd.  
 #1450 - 625 Howe Street  
 Vancouver, B.C. V6C 2T6  
 Attention:

Report No: 81-69-014 Page 1 of 12  
 Samples Arrived: June 12, 1981  
 Report Completed: June 30, 1981  
 For Project: 412-07-NRM  
 Analyst: E.T. & VGC Staff  
 Invoice: 6253 Job # 81-120-1

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb
810223	21	118	0.6	30	nd
24	18	110	0.7	30	nd
25	20	118	0.9	30	nd
26	20	27	0.9	5	ne
27	16	63	0.5	10	nd
28	22	12	0.7	nd	nd
29	24	40	0.8	10	10
30	16	46	0.7	nd	nd
31	12	58	1.1	nd	nd
32	20	23	0.7	nd	nd
33	18	50	0.8	5	nd
34	16	51	0.8	5	nd
35	14	40	1.0	10	10
36	19	51	1.1	5	10
37	21	45	0.7	5	nd
38	20	50	0.8	nd	10
39	20	64	0.7	nd	nd
40	21	57	0.9	5	nd
41	25	66	0.6	nd	nd
42	16	39	0.7	5	nd
43	17	42	0.8	nd	nd
44	14	44	0.8	5	nd
45	19	55	0.7	10	nd
46	25	27	1.0	nd	10
47	16	46	0.7	5	nd
48	16	74	0.7	10	nd
49	17	40	0.7	5	nd
50	10	25	0.8	10	nd
51	16	22	0.6	5	nd
52	18	131	0.7	nd	nd
53	20	58	1.0	5	nd
54	23	88	1.0	5	nd
55	21	73	1.1	5	10
56	21	117	0.8	5	nd
57	23	75	1.0	10	nd
58	24	115	1.0	5	nd
59	26	48	0.9	5	10
60	23	67	1.0	5	n
810261	19	66	1.0	5	nd

REMARKS: Ag\* = Ag background corrected.  
 One copy sent to Revelstoke, B.C.

Signed: *[Signature]*

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VAN GEOCHEM LAB LTD.  
 1571 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 983-5211  
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

# Certificate of Geochemical Analyses

- IN ACCOUNT WITH -

Northair Mines Ltd.

Attention:

Report No: 81-69-014

Page 2 of 12

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb
810262	15	38	nd	5	nd
63	19	66	0.2	5	nd
64	18	69	0.1	5	nd
66	22	64	0.1	nd	nd
67	19	63	nd	5	nd
68	18	61	nd	5	nd
69	16	51	nd	5	nd
70	12	40	nd	nd	nd
71	18	68	nd	nd	nd
73	17	66	nd	nd	10
74	21	30	nd	5	nd
75	16	39	nd	5	nd
76	20	65	nd	5	nd
77	21	24	0.4	nd	nd
78	18	37	0.2	nd	nd
79	20	99	nd	5	nd
80	17	68	0.1	5	10
81	22	129	0.1	5	nd
82	26	65	0.7	30	nd
83	17	69	0.1	10	nd
84	19	70	nd	20	nd
85	20	92	nd	40	10
89	16	45	nd	10	10
90	28	58	0.1	nd	nd
91	22	48	5	nd	nd
92	24	59	nd	5	nd
93	19	58	nd	5	10
297	16	62	nd	nd	nd
810300	20	25	nd	nd	nd
810373	19	81	nd	10	nd
74	20	85	nd	20	nd
75	28	93	0.1	10	nd
76	22	110	0.1	10	nd
77	23	208	nd	10	nd
78	19	67	0.2	10	nd
79	28	144	0.1	5	nd
80	30	131	nd	200	nd
81	26	123	nd	10	nd
810382	20	53	0.2	5	nd

REMARKS: Ag\* = Ag background corrected.

Signed:

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Northair Mines Ltd.

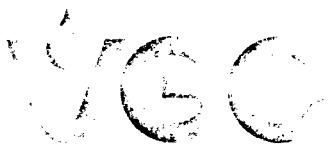
Attention:

Report No: **81-69-014** Page **3** of **12**  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb
810383	25	71	0.7	nd	10
84	14	50	0.9	5	10
85	17	46	0.7	5	nd
86	15	43	0.8	10	nd
87	19	65	0.7	5	nd
88	18	51	0.8	10	nd
89	20	66	0.7	5	nd
90	9	18	0.8	10	nd
91	17	54	0.5	5	nd
92	19	40	0.9	10	nd
93	20	52	0.8	nd	nd
94	11	12	0.8	5	nd
95	18	43	0.8	5	nd
96	31	49	0.9	nd	nd
97	18	64	0.8	5	nd
98	21	49	0.9	10	nd
399	19	46	0.7	5	nd
400	22	43	0.6	nd	nd
416	20	43	1.2	5	---
422	20	42	0.8	5	---
23	17	10	0.7	5	---
24	15	25	0.8	nd	---
25	19	36	0.7	nd	---
26	16	31	0.5	nd	---
27	18	45	0.7	nd	---
28	17	41	0.9	5	---
29	16	67	0.9	10	---
30	6	23	0.9	nd	---
31	15	40	0.9	5	---
23	17	49	1.0	nd	---
33	15	34	0.8	10	---
34	13	24	0.8	nd	---
35	26	62	15	10	---
36	19	46	0.7	20	---
37	18	70	0.7	nd	---
38	16	56	0.7	nd	---
39	18	32	0.8	10	---
40	18	24	0.8	5	---
810441	18	31	0.7	5	---

REMARKS: Ag\* = Ag background corrected.

Signed: 



VANGEOCHEM LAB LTD.  
 1021 REEDERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 603-5211  
 AREA CODE: 604

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- IN ACCOUNT WITH -

Northair Mines Ltd.

Report No: **81-69-014** Page **4** of **12**  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb
810442	22	39	0.8	nd	--
43	20	51	0.9	nd	--
51	21	83	0.7	30	--
456	26	90	0.8	5	--
501	21	71	0.8	nd	nd
02	20	94	0.8	5	10
03	20	98	0.8	10	nd
04	21	86	0.9	10	20
05	21	94	0.9	nd	nd
06	25	106	1.2	5	nd
07	18	65	0.8	5	10
08	25	36	0.8	5	10
09	19	53	1.0	nd	nd
10	20	94	1.0	10	nd
11	24	95	1.0	5	nd
12	21	93	1.1	30	nd
13	14	36	0.7	10	nd
14	16	140	0.9	10	nd
15	26	128	1.1	20	nd
16	20	152	1.1	10	nd
17	20	150	0.7	nd	nd
18	12	68	0.9	nd	nd
19	23	74	0.7	nd	nd
20	18	132	0.7	nd	nd
21	20	50	0.7	nd	nd
22	46	66	0.8	nd	nd
23	21	145	0.7	5	10
24	22	82	0.8	nd	nd
25	22	24	1.2	5	nd
26	18	49	1.2	nd	nd
27	14	34	1.2	nd	nd
28	15	35	0.7	5	nd
29	14	44	0.9	nd	nd
30	15	32	0.7	nd	nd
31	22	45	0.5	nd	nd
32	15	34	0.7	nd	nd
33	15	45	0.8	5	nd
34	22	57	0.8	nd	10
810535	23	64	0.6	nd	nd

REMARKS: Ag\* = Ag background corrected.

Signed:

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# Certificate of Geochemical Analyses

-IN ACCOUNT WITH-  
 Northair Mines Ltd.

Report No: **81-69-014** Page 5 of 12  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb
810536	14	45	0.9	10	10
37	16	71	0.5	10	nd
38	20	53	0.9	5	nd
39	24	70	0.8	5	nd
40	15	61	0.6	5	20
41	21	56	0.7	5	10
42	14	26	0.7	5	nd
43	17	55	0.6	10	nd
44	16	56	1.2	5	nd
45	15	61	0.8	10	10
46	18	34	1.0	10	nd
47	15	18	0.8	nd	nd
48	36	41	0.9	5	nd
49	19	47	0.9	nd	nd
50	22	42	0.6	nd	nd
51	7	5	0.8	nd	nd
52	22	41	0.7	10	10
53	24	72	0.7	10	nd
54	20	88	0.7	5	nd
55	24	52	0.8	nd	10
56	29	40	0.7	nd	10
57	16	47	0.8	nd	nd
58	28	30	0.8	5	nd
59	11	46	1.1	10	nd
60	20	94	0.9	10	nd
61	21	36	1.1	5	10
62	19	45	0.9	nd	nd
63	19	70	1.2	10	10
64	20	46	0.8	5	nd
65	19	18	1.0	10	nd
66	20	22	1.1	10	10
67	18	22	0.8	nd	nd
68	16	14	0.8	10	nd
69	15	52	0.6	5	nd
70	18	44	0.7	5	10
71	34	24	0.9	nd	nd
72	17	39	0.8	nd	nd
73	10	15	0.7	5	nd
810574	21	39	0.6	nd	nd

REMARKS: Ag\* = Ag background corrected.

Signed: 



VAN GECHEM LAB LTD.  
 1121 BELMONT AVE.,  
 NORTH WILLOWDALE, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 603 3011  
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

# Certificate of Geochemical Analyses

-IN ACCOUNT WITH-  
 Northair Mines Ltd.

Report No: 81-69-014

Page 6 of 12

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb
810575	14	31	1.0	nd	nd
76	33	56	1.1	nd	nd
77	18	31	0.7	5	10
78	15	59	0.7	5	nd
79	25	52	0.9	5	nd
80	31	33	0.9	5	nd
81	21	72	1.0	nd	nd
82	24	86	0.8	nd	nd
83	15	49	0.7	5	nd
84	25	63	0.8	nd	nd
85	19	84	0.9	10	nd
86	20	63	0.8	5	nd
87	19	53	0.8	10	nd
88	17	24	0.6	10	---
89	19	110	0.6	5	---
90	30	165	1.5	10	---
91	18	88	0.9	nd	---
92	16	47	0.7	5	---
93	20	36	0.8	5	---
94	14	48	0.7	5	---
95	20	22	1.2	nd	---
96	20	47	0.8	10	---
97	14	32	0.8	10	---
98	24	65	0.7	10	---
599	20	69	0.6	10	---
600	18	54	0.8	5	---
18	18	42	0.8	10	---
19	16	43	0.7	nd	---
20	18	18	1.2	20	---
21	17	31	0.7	10	---
22	12	27	0.6	20	---
23	20	59	0.6	nd	---
25	20	44	0.6	10	---
27	15	65	0.5	10	---
29	32	47	0.8	5	---
30	20	40	0.8	10	---
31	15	25	0.4	10	---
33	16	58	0.7	10	---
810635S	19	39	0.6	nd	---

REMARKS: Ag\* = AG background corrected.

Signed: \_\_\_\_\_

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

• Specialising in Trace Elements Analyses •

# Certificate of Geochemical Analyses

—IN ACCOUNT WITH—  
**Northair Mines Ltd.**

Report No: **81-69-014** Page **7** of **12**  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm
810638	16	24	0.1	nd
40	18	38	0.2	nd
41	16	42	nd	5
42	16	29	nd	5
43	19	27	0.2	5
44	22	29	0.1	nd
45	36	18	0.5	nd
46	19	9	0.2	nd
47	13	15	0.2	5
48	23	14	0.1	nd
49	19	54	nd	5
50	24	32	0.2	5
51	26	17	nd	nd
52	18	41	0.1	10
53	19	41	0.2	5
54	20	48	0.1	5
55	20	74	0.2	10
56	20	32	nd	5
57	16	18	0.1	10
58	19	17	nd	nd
59	14	19	0.1	nd
60	18	33	nd	10
61	20	34	nd	10
62	19	39	nd	10
63	12	26	nd	10
64	17	25	0.2	10
65	21	24	0.3	nd
66	14	24	nd	5
68	19	37	0.1	10
91	22	20	0.1	5
92	16	28	0.1	nd
93	21	85	0.2	10
94	17	38	nd	20
95	24	56	0.1	5
96	35	72	0.1	nd
97	19	37	0.1	10
98	34	65	0.6	5
699	19	43	nd	10
810700	16	67	0.1	5

REMARKS: Ag\* = Ag background corrected.

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



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# Certificate of Geochemical Analyses

---IN ACCOUNT WITH---

**Nrothair Mines Ltd.**

Report No: **81-69-014**

Page **8** of **12**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm		
810701	14	60	0.1	10		
02	18	86	nd	10		
03	16	32	0.1	10		
04	21	33	nd	10		
05	19	47	nd	5		
06	17	55	nd	10		
07	16	22	nd	10		
08	16	34	0.1	10		
09	7	29	0.1	10		
10	8	23	0.1	5		
11	14	37	nd	nd		
12	10	22	nd	10		
13	18	16	0.2	5		
14	11	21	0.1	10		
15	24	12	nd	5		
16	15	20	nd	10		
17	14	42	nd	20		
18	10	23	0.1	10		
19	13	27	0.2	20		
20	11	29	nd	5		
21	16	48	nd	5		
22	15	32	nd	5		
23	15	54	nd	5		
24	18	69	0.1	10		
25	21	31	0.1	20		
26	16	26	0.1	nd		
27	16	35	0.1	10		
28	19	27	nd	20		
29	29	35	nd	5		
30	22	43	0.1	nd		
31	34	48	0.4	nd		
32	22	48	nd	5		
33	15	34	nd	nd		
34	19	55	0.1	10		
35	15	34	0.2	10		
36	15	47	0.2	10		
37	19	48	nd	5		
38	19	35	nd	nd		
810739	24	38	0.4	nd		

REMARKS:

Ag\* = Ag background corrected.

Signed: \_\_\_\_\_

% Mo x 1.6683 = % MoS<sub>2</sub>

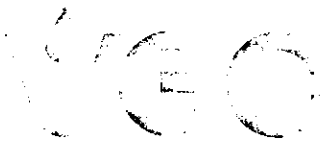
1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
 1571 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 606-6277  
 AREA CODE: 604

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# Certificate of Geochemical Analyses

- IN ACCOUNT WITH -  
 Northair Mines Ltd.

Report No: **81-69-014** Page **9** of **12**  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb	
810 740	16	75	0.3	5	-	
41	19	30	0.2	10	-	
42	17	42	nd	10	-	
43	21	25	0.1	5	-	
44	20	23	nd	5	-	
45	14	27	nd	10	-	
46	14	15	0.1	10	-	
47	18	52	0.2	20	nd	
48	16	47	0.4	5	nd	
49	18	47	0.2	nd	10	
50	20	87	0.1	nd	30	
51	15	23	0.1	10	-	
52	20	32	nd	10	-	
53	20	30	nd	10	-	
54	22	47	nd	5	-	
55	20	24	nd	10	-	
56	19	38	nd	10	-	
57	14	37	0.2	10	-	
58	11	33	0.1	10	-	
59	24	17	0.2	5	-	
60	11	27	nd	10	-	
61	13	24	nd	nd	-	
62	11	28	nd	20	-	
63	19	33	nd	nd	-	
64	16	22	nd	nd	-	
65	16	16	nd	10	-	
66	23	24	nd	5	-	
68	19	20	0.1	5	-	
67	14	14	0.1	10	-	
69	15	15	0.1	10	-	
70	16	37	0.2	20	-	
71	19	63	nd	20	-	
72	21	33	nd	20	-	
73	20	28	0.2	nd	-	
74	19	53	0.2	10	-	
75	22	23	nd	nd	-	
76	21	47	1.1	5	-	
77	29	48	0.1	20	-	
810778	15	58	nd	5	-	

REMARKS: Ag\* = Ag background corrected

Signed: \_\_\_\_\_

95 Mo x 1.6623 = % MoS<sub>2</sub>      1 Troy oz / ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

• Specialising in Trace Elements Analyses •

# Certificate of Geochemical Analyses

IN ACCOUNT WITH  
 Northair Mines Ltd.

Report No: 81-69-014

Page 10 of 12

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm		
810 779	26	40	0.2	5		
80	19	53	0.3	5		
81	21	43	nd	5		
82	20	46	0.1	5		
83	18	23	0.1	5		
84	16	38	nd	5		
85	25	38	0.1	5		
86	21	28	0.1	nd		
87	13	31	nd	5		
88	24	58	nd	nd		
89	21	39	0.3	5		
90	10	23	0.1	nd		
91	16	29	0.2	5		
92	20	50	0.2	5		
93	20	20	0.1	10		
94	16	32	nd	10		
95	14	30	0.1	10		
96	16	32	nd	10		
97	14	23	0.2	5		
98	14	47	nd	5		
799	16	18	nd	10		
800	21	29	0.1	5		
46	29	26	0.1	5		
47	21	18	nd	5		
48	25	46	nd	nd		
49	22	47	nd	5		
50	22	33	nd	5		
51	18	23	nd	5		
52	16	34	nd	5		
53	19	17	nd	5		
54	16	33	0.1	5		
55	18	11	0.1	10		
56	18	44	0.2	nd		
57	11	37	nd	nd		
58	16	42	nd	nd		
59	13	46	0.1	5		
60	21	73	nd	5		
61	14	61	nd	5		
810 862	12	43	0.1	5		

REMARKS: Ag\* = Ag background corrected.

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

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# Certificate of Geochemical Analyses

-IN ACCOUNT WITH-  
 Northair Mines Ltd.

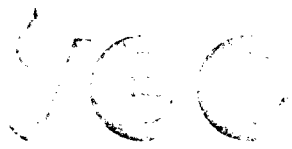
Report No: **81-69-014** Page **11** of **12**  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb
810863	13	15	nd	5	-
64	22	39	nd	5	-
65	16	24	0.1	nd	-
66	20	39	nd	10	-
67	24	61	nd	10	-
68	19	36	nd	10	-
70	21	29	0.5	10	-
71	17	52	nd	10	-
72	14	56	nd	5	-
73	21	50	0.1	nd	-
74	19	36	0.1	10	-
75	16	1	0.1	10	-
76	20	27	0.2	10	-
77	20	37	0.8	5	-
78	14	30	0.1	nd	-
79	20	34	nd	5	-
80	21	22	nd	nd	-
81	20	23	0.1	5	-
82	20	18	nd	5	-
83	18	19	nd	nd	-
84	14	9	nd	5	-
85	28	54	0.2	10	-
86	18	26	nd	10	-
87	19	40	nd	20	-
88	19	37	0.1	20	-
89	16	41	0.1	10	-
90	20	38	0.1	10	-
91	27	15	0.1	10	-
92	14	40	0.1	5	-
93	24	20	0.3	nd	-
94	24	50	nd	5	-
95	21	50	nd	5	-
96	19	50	0.1	nd	-
97	15	38	nd	nd	-
98	21	24	nd	nd	-
899	19	42	nd	20	-
900	21	18	0.2	5	-
01	22	56	nd	10	nd
810902	20	29	nd	5	nd

REMARKS: Ag\* = Ag background corrected.

Signed: \_\_\_\_\_



VALE GEOCHEM LAB LTD.  
 1111 HAMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 545-0011  
 AREA CODE: 604

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# Certificate of Geochemical Analyses

—IN ACCOUNT WITH—

Northair Mines Ltd.

Attention:

Report No: **81-69-014** Page **12** of **12**  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm	Au ppb
810903	16	43	0.2	nd	nd
04	11	26	nd	10	nd
05	15	38	0.2	5	10
06	16	36	nd	5	nd
07	20	45	nd	5	nd
08	14	42	0.1	5	nd
09	14	44	nd	5	nd
10	14	43	nd	10	10
11	19	37	nd	5	nd
12	18	74	0.1	nd	nd
13	20	57	0.1	20	nd
ser/ 4700E 100N 14	34	108	nd	200*	nd
15	10	24	nd	10	nd
16	9	36	nd	5	nd
17	20	56	nd	5	nd
18	13	66	nd	5	nd
19	16	83	nd	5	nd
20	20	42	nd	nd	nd
21	23	33	0.1*	nd	nd
22	24	60	0.1	nd	nd
23	19	49	nd	5	nd
24	21	26	nd	5	nd
25	16	37	nd	10	nd
26	20	46	0.1	nd	nd
27	16	62	0.1	10	nd
28	38	33	nd	5	10
29	16	34	nd	5	10
30	17	39	nd	nd	nd
31	21	40	0.3	nd	10
32	19	17	0.1	nd	nd
33	22	64	nd	5	nd
810934	23	104	0.2	5	nd

REMARKS: Ag\* = Ag background corrected.

Signed: \_\_\_\_\_

VANGEOCHEM LAB LTD.  
 1021 PENFERTON AVE.,  
 NORTH VANCOUVER, B.C.  
 CANADA V7P 2S3

TELEPHONE: 908-5211  
 AREA CODE: 604

*Thompson*

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# Certificate of Geochemical Analyses

—IN ACCOUNT WITH—

Northair Mines Ltd.  
 #1450 - 625 Howe Street  
 Vancouver, B.C. V6C 2T6

Attention:

Report No: 81-69-015 Page 1 of 2

Samples Arrived: June 12, 1981

Report Completed: June 29, 1981

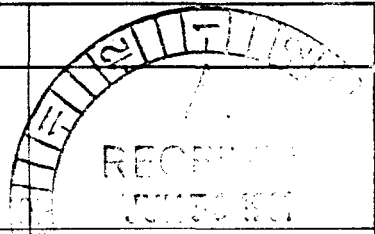
For Project: 412-07-NRM

Analyst: E.T. & VGC Staff

Invoice: 6246 Job # 81-120-2

soil

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	Au ppb	W ppm
810265	16	72	0.1	nd	10
72	19	2	0.1	nd	10
86	20	78	nd	nd	20
5030E, 75N 87	26	98	nd	nd	200
88	10	43	0.2	nd	5
94	16	45	0.4	nd	nd
95	18	55	nd	nd	10
96	17	119	nd	nd	5
98	15	64	nd	nd	5
299	16	35	nd	nd	nd
570	19	41	0.2	nd	10
601	31	56	nd	nd	5
02	19	45	nd	nd	nd
03	20	61	nd	nd	10
04	15	78	0.2	nd	5
05	19	93	0.2	nd	5
06	21	36	nd	nd	nd
07	12	42	nd	nd	10
08	19	37	0.2	nd	5
09	15	47	nd	nd	nd
10	16	44	0.1	nd	10
11	20	83	0.2	nd	5
12	22	100	0.2	10	5
13	19	84	nd	10	10
14	21	146	nd	nd	5
15	21	140	nd	10	10
16	18	138	nd	nd	10
17	26	136	0.4	---	nd
24	15	45	nd	---	nd
26	22	46	nd	---	5
28	16	77	0.2	---	5
32	25	48	0.2	---	5
34	19	59	nd	---	5
36	18	73	nd	---	5
37	20	76	nd	---	nd
39	17	55	nd	---	10
67	18	38	0.2	---	10
68	18	40	0.2	---	5
810669	15	56	0.1	---	nd



REMARKS: Ag\* = Ag background corrected.

Signed: *[Signature]*

% Mo x 1.6683 = % MoS<sub>2</sub>    1 Troy oz./ton = 34.28 ppm    1 ppm = 0.0001%    nd = none detected    ppm = parts per million.  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

VANGEOCHEM LAB LTD.  
 1021 PEMBERTON AVE.  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 619-5211  
 AREA CODE: 604

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# Certificate of Geochemical Analyses

--IN ACCOUNT WITH--

Northair Mines Ltd.

Attention:

Report No: 81-69-015

Page 2 of 2

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	Pb ppm	Zn ppm	Ag* ppm	W ppm		
810671	20	44	0.1	nd		
72	22	45	0.3	5		
73	18	65	nd	5		
74	20	82	0.1	20		
75	21	25	nd	20		
76	16	29	nd	10		
77	13	35	nd	10		
78	21	31	nd	10		
79	11	23	0.1	5		
80	24	30	nd	nd		
81	8	25	nd	nd		
82	19	62	nd	nd		
83	20	51	nd	5		
84	15	29	nd	10		
85	15	41	nd	10		
86	23	38	nd	10		
87	16	38	nd	5		
88	26	24	0.5	5		
89	15	55	nd	5		
810690	11	22	0.2	5		

We have these samples in this report separated from the others as Latex paint has been seeped into the boxes. Consequently there were some paint on the outside of the bags.

REMARKS: Ag\* = Ag background corrected.

Signed: \_\_\_\_\_



CALGARY 2021 - 41 AVE. N.E. CALGARY, CANADA T2E 6P2  
 TELEPHONE (403) 276-9627 TELEX 038-25541  
 EDMONTON 6112 DAVIES ROAD, EDMONTON, CANADA T6E 4M9  
 TELEPHONE (403) 465-9877 TELEX 037-41596

## CERTIFICATE OF ANALYSIS

• MINERAL • GAS • WATER • OIL • SOILS • VEGETATION • ENVIRONMENTAL ANALYSIS

NORTHAIR MINES LTD.

DATE AUG. 17/81

PROJECT NO.0691-1-4583

PAGE 1 OF 2

LOCATION	PB PPM	ZN PPM	AU PPB	W PPM
810445	14	67	<10	<2
810446	13	68	<10	<2
810447	8	48	<10	<2
810448	5	26	<10	<2
810449	129	68	192	<2
810450	28	43	<10	<2
810451	33	47	<10	<2
810452	34	33	<10	<2
810453	60	50	<10	<2
810454	25	49	<10	<2
810455	26	41	<10	5
810456	23	38	<10	10
810457	17	34	<10	<2
810458	11	30	<10	<2
810459	18	37	<10	2
810961	19	34	192	<2
810962	11	31	<10	<2
811001	18	56	236	<2
811002	17	84	80	<2
811003	10	30	<10	<2
811004	15	68	<10	<2
811005	13	59	<10	<2
811006	14	75	<10	<2
811007	12	47	128	<2
811008	12	53	<10	<2
811009	16	69	<10	<2
811010	12	70	<10	<2
811011	12	83	<10	<2
811012	11	74	<10	<2
811013	5	51	<10	<2
811014	14	69	<10	<2
811015	12	64	<10	<2
811016	10	61	68	<2
811017	19	61	<10	<2
811018	9	53	<10	<2
811019	16	124	<10	<2
811020	14	117	<10	<2
811021	11	57	<10	<2
811022	14	58	252	<2
811023	12	59	<10	<2



Certified by *[Signature]*





*Thompson*

Specializing in Trace Element Analysis

# Certificate of Geochemical Analyses

**Northair Mines Ltd.**  
 #1450 - 625 Howe Street  
 Vancouver, B. C. V6C 2T6

Report No. **81-69-024** Page **1** of **5**  
 Samples Analyzed **August 22, 1981**  
 Report Completed **September 17, 1981**  
 For Project **412 07 NRW**  
 Analyst **E.T. & VGC Staff**  
 Invoice # **6498** Job # **81 - 271**

Sample Name	Pb ppm	Zn ppm	Ag ppm	Au ppb	N ppm
47 +15E 100NA	45	200	0.6	10	40
47 +15E 100NB	6	29	0.3	nd	20
47 +50E B/L	13	116	0.3	nd	20
25S	17	114	0.3	nd	20
50	20	75	0.1	110	10
75	14	81	nd	nd	10
100	12	68	nd	nd	5
25	18	120	nd	nd	10
50	18	51	nd	10	nd
75	11	55	nd	nd	nd
200	15	71	0.1	nd	10
25	15	64	nd	10	10
50	13	69	nd	nd	5
75	10	129	nd	nd	10
300S	13	88	nd	20	20
25N	21	70	nd	20	nd
50	24	153	0.2	nd	40
75	25	121	nd	nd	5
100A	17	122	0.5	10	10
100B	12	47	0.2	20	5
100C	18	149	0.4	10	150
100D	21	147	0.1	nd	20
25	42	155	0.3	10	10
50	80	193	0.2	10	10
75	24	188	0.3	nd	10
200	13	66	nd	nd	10
25	16	94	0.4	nd	10
50	15	76	0.1	nd	10
75	15	98	0.1	nd	nd
300	21	85	0.2	nd	nd
25	15	86	0.2	nd	5
50	16	61	0.2	nd	5
75	15	75	0.1	nd	5
400	19	49	0.2	nd	5
25	18	167	nd	nd	5
50	16	72	0.3	nd	5
75	22	91	0.2	nd	5
47 +50E 490N	20	64	0.2	nd	nd
48 +00E B/L,	21	192	0.2	10	5

Signed: *[Signature]*

\* Specializing in Trace Elements Analysis \*

# Certificate of Geochemical Analyses

LABORATORY REF: --

**Northair Mines Ltd.**

Report No: **81-89-024**

Page **2** of **5**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Applicant:

Sample Name	Pb ppm	Zn ppm	Ag ppm	Au ppb	W ppm
<b>48+00E 25S</b>	20	229	0.2	nd	nd
50	24	162	0.1	nd	nd
75	17	120	0.3	10	nd
175	21	108	0.5	nd	nd
200	22	114	nd	nd	nd
25	20	162	0.4	nd	5
50	16	74	0.2	10	5
75	16	76	0.2	10	nd
<b>300S</b>	18	76	0.2	nd	nd
50N	21	170	nd	nd	25
75	18	168	nd	nd	5
100	10	71	0.1	10	10
25	18	144	0.4	nd	10
50	22	223	0.6	nd	5
75	21	192	0.9	nd	10
200	25	224	0.4	10	5
25	27	201	0.1	nd	5
50	16	216	nd	nd	nd
75	17	149	0.2	20	nd
550	21	116	nd	30	nd
75	19	69	0.2	nd	nd
<b>48+00E 600N</b>	16	71	nd	nd	nd
<b>48+50E 0</b>	12	141	nd	20	nd
25S	20	188	nd	10	10
50	18	169	0.1	nd	10
75	15	91	0.1	nd	5
100	16	120	0.4	nd	nd
25	18	74	0.3	nd	nd
50	16	66	0.3	10	10
75	18	80	0.2	nd	5
200	11	43	nd	10	5
25	13	106	nd	nd	5
50	19	116	nd	nd	nd
75	18	72	nd	10	5
<b>325N</b>	24	118	nd	30	nd
50	35	294	0.4	nd	nd
75	16	169	nd	nd	5
400	25	75	0.1	nd	nd
<b>48+50E 425N</b>	21	296	0.2	nd	5

REMARKS:

Signed: 

% Ni = 1.6663 = 33.1405

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instrument's used.

# Certificate of Geochemical Analyses

Standardized Element Analysis

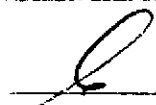
Northair Mines Ltd .

Report No. **81-69-024** Page **3** of **5**  
 Samples Analyzed:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample No. / Description	Pb ppm	Zn ppm	Ag ppm	Au ppb	W ppm
48+50E 450N	27	90	nd	20	nd
75	16	118	0.1	nd	nd
48+50E 500N	17	156	0.1	20	nd
49+00E 0	12	60	nd	10	nd
250S	17	64	nd	nd	nd
49+50E 0	20	132	nd	10	30
125S	18	134	0.1	nd	5
50	14	85	0.2	10	10
75	18	131	0.4	10	20
200	16	122	0.1	10	20
25	16	100	0.3	nd	10
50S	16	99	0.1	nd	5
175NA	21	192	nd	nd	300
175NB	24	265	nd	10	200
49+50E 175NC	30	182	nd	nd	20
51+00E 0	14	103	0.3	nd	nd
25S	19	169	nd	nd	10
50	21	130	nd	nd	10
75	24	182	1.0	nd	20
100	16	234	nd	10	5
25	19	159	0.3	20	5
53	17	163	0.2	10	5
75	19	101	0.5	nd	nd
200	16	98	0.2	nd	20
25	15	94	0.2	nd	nd
50	18	155	nd	30	5
75	22	289	0.1	30	nd
51+00E 300S	14	124	nd	nd	nd
51+35E 125S	37	95	0.2	nd	10
51+36E 25S	40	91	0.2	nd	5
50	19	139	0.3	10	nd
75	19	142	0.3	30	nd
100	19	170	0.2	nd	nd
50	18	173	0.5	20	nd
75	16	116	0.2	20	nd
200	22	121	0.1	nd	nd
25	31	167	0.2	20	5
50	25	142	nd	40	10
51+36E 275S	19	151	nd	30	nd

REMARKS:

Signed: 

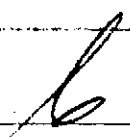
# Certificate of Geochemical Analyses

Client: **Northair Mines Ltd.**

Report No: **81-69-024** Page **4** of **5**  
 Samples Analyzed:  
 Report Completed:  
 For Project:  
 Analyst:

Sample Description	Pb ppm	Zn ppm	Ag ppm	Au ppb	W ppm
51+36E 300S	20	179	0.3	nd	nd
51+85E B/L	22	100	0.7	nd	nd
25S	18	161	0.8	nd	nd
50	16	107	0.4	nd	5
75	20	172	0.3	10	nd
100	21	168	0.3	nd	nd
25	18	90	0.3	10	5
50	22	241	0.5	nd	5
75	20	113	nd	nd	nd
200	18	82	nd	nd	5
25	21	175	0.4	nd	5
50	16	134	nd	nd	nd
75	16	95	nd	10	nd
51+85E 300S	32	170	0.4	10	5
53+00E B/L	31	351	1.0	nd	10
50S	24	182	0.5	10	10
75	17	98	0.5	10	nd
100	16	117	0.5	nd	5
25	15	92	0.5	nd	nd
50	21	121	0.4	nd	nd
75	18	158	nd	nd	5
200	15	79	nd	nd	nd
25	19	70	0.4	nd	nd
50	21	70	0.2	10	5
75	18	93	0.1	20	5
300A	23	51	nd	nd	nd
300SB	16	57	nd	nd	nd
53+00E 25N	22	132	0.8	10	nd
53+50E B/L	17	100	nd	20	nd
25S	20	98	0.4	nd	nd
50	20	125	0.2	nd	nd
75	25	190	0.7	nd	nd
100	21	93	nd	nd	nd
25	19	172	nd	nd	nd
50	26	271	0.5	nd	5
75	22	54	0.1	10	nd
200	20	180	nd	10	nd
25	19	97	0.2	nd	nd
53+50E 250S	20	41	0.2	nd	5

REMARKS:

Signed: 



• Specialising in Trace Elements Analyses •

# Certificate of Geochemical Analyses

ACCOUNT WITH:  
**Northair Mines Ltd.**  
**#1450 - 625 Howe Street**  
**Vancouver, B. C. V6C 2T6**

Report No: **81 69 020** Page **1** of **2**  
 Samples Arrived: **August 12, 1981**  
 Report Completed: **August 25, 1981**  
 For Project: **412-07-NRM**  
 Analyst: **E.T. & VGC Staff**  
 Invoice #**6420** Job #**81-255**

*Thanking*

Sample Working	Cu ppm	Pb ppm	Zn ppm	Ag ppm	W ppm	Au ppb
BL 25N	47	25	116	0.1	5	20
25S	49	26	80	0.6	5	20
75N	85	32	120	0.2	5	nd
75S	21	18	73	0.1	nd	nd
125S	18	32	98	0.2	5	nd
BL 0+00	78	44	124	nd	10	10
0+25E	46	35	96	0.1	5	nd
50	40	23	117	0.1	5	nd
75	26	18	114	0.4	nd	nd
100E	58	21	96	0.2	nd	10
25W	17	12	67	0.1	5	10
50	20	21	107	0.2	5	nd
75	39	20	75	0.3	5	20
0+100W	34	19	94	0.2	5	nd
BL 50N	73	41	126	0.4	5	nd
50N + 25E	139	36	128	0.2	5	10
50	79	28	178	0.5	5	10
75	53	24	93	0.2	5	nd
100E	57	30	136	0.4	5	nd
25W	43	29	114	0.3	nd	10
50	14	14	71	0.3	nd	10
75	27	16	52	0.2	5	10
50N + 100W	18	16	74	nd	5	nd
BL 50S	31	24	176	0.3	nd	10
50S + 25E	72	42	104	0.3	nd	20
50	63	46	151	0.9	10	10
75	16	25	156	0.7	10	10
100E	53	23	102	0.2	nd	10
25W	36	18	63	nd	nd	nd
50	25	29	218	1.1	nd	10
75	18	21	174	0.2	nd	nd
50S + 100W	28	210	372	2.4	nd	10
BL 100N	53	44	94	0.4	nd	nd
100N + 25E	20	19	90	0.4	nd	nd
50	28	21	93	0.3	5	10
75E	24	20	96	0.3	5	nd
25W	73	34	101	0.4	5	nd
50	18	16	82	0.2	nd	nd
100N + 75W	11	20	85	0.2	nd	nd

REMARKS

Signed: *[Signature]*

\* Specialising in Trace Elements Analysis \*

# Certificate of Geochemical Analyses

ACCOUNT WITH:

**Northair Mines Ltd.**

Report No: **81 69 020** Page **2** of **2**  
 Samples Arrived:  
 Report Completed:  
 For Project:  
 Analyst:

Attention:

Sample description	Cu ppm	Pb ppm	Zn ppm	Ag ppm	W ppm	Au ppb
100N + 100W	139	81	108	0.5	5	nd
BL 100S	29	24	142	0.1	10	nd
100S + 25E	43	96	271	0.5	10	20
50	77	34	79	0.1	nd	nd
75	19	24	120	0.6	5	nd
100A	37	18	74	0.3	nd	10
100B	44	21	93	nd	5	10
125	14	16	135	0.4	5	nd
150E	43	22	190	0.5	5	nd
25W	14	14	90	nd	nd	10
50	29	16	69	0.2	nd	10
75	27	20	94	0.1	nd	nd
100S + 100W	21	21	146	0.2	nd	nd
BL 150S	9	20	84	0.3	nd	10
150S + 25E	10	26	129	0.2	5	nd
50	12	17	75	0.1	20	nd
75	28	16	68	nd	20	nd
100	39	56	82	0.3	10	nd
125	38	19	75	0.2	nd	nd
150S + 150E	46	19	118	nd	5	nd
ST 600E	59	18	100	nd	nd	nd
50	25	14	92	nd	5	nd
700	28	21	117	0.2	5	nd
50	49	20	104	0.1	5	nd
800	67	23	138	0.1	5	nd
50	76	24	150	nd	nd	nd
900	99	24	144	0.2	nd	nd
50	17	26	203	nd	nd	10
1000	17	17	78	0.2	nd	nd
50	44	13	67	nd	10	10
1100	51	19	106	nd	5	10
1150E	128	24	83	nd	nd	nd
810217	10	14	48	0.2	5	10
18H.M.	11	10	31	0.1	5	nd
19	11	12	46	0.2	10	nd
20H.M.	10	13	45	0.1	10	10
21	10	12	46	0.1	10	nd
810222H.M.	10	15	46	0.3	nd	nd

REMARKS:

Signed: 

% Mo x 1.6663 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



# Certificate of Geochemical Analyses

Specialising in Trace Elements Analysis

Client: **Northair Mines Ltd.**

**#1450 - 625 Howe Street  
Vancouver, B.C. V6C 2T6**

Report No: **81-69-019**

Page **1** of **5**

Samples Arrived: **July 23, 1981**

Report Completed: **August 21, 1981**

For Project: **412-07-NRM**

Analyst: **E.T. & VGC Staff**

Invoice: **6413**

Job # **81-217**

Sample No. / Name	Cu ppm	Pb ppm	Zn ppm	Ag* ppm	Au ppb	W ppm
ACGS 2A	16	12	42	0.3	20	20
2 2B	11	14	43	0.4	nd	10
2C	13	12	40	0.4	10	20
3A	14	16	56	0.3	nd	nd
B	11	12	45	0.2	nd	20
C	10	15	41	nd	nd	20
4A	11	11	48	nd	nd	10
B	9	10	39	0.1	nd	10
C	9	12	36	nd	10	10
5A	11	14	47	nd	nd	10
B	10	12	40	nd	nd	10
C	11	15	44	0.3	10	10
6A	10	6	48	nd	nd	10
B	10	8	37	nd	nd	5
C	15	17	36	nd	nd	10
7A	16	5	43	0.1	10	10
B	11	10	33	0.2	nd	20
C	15	11	26	nd	nd	10
9A	6	5	33	0.1	nd	10
B	5	6	28	nd	10	10
C	5	8	22	0.1	nd	20
11A	15	11	41	0.1	nd	5
B	20	15	50	0.2	nd	nd
C	25	18	61	0.1	nd	5
12A	12	6	46	0.1	nd	5
B	20	11	45	nd	nd	5
C	21	16	50	0.2	10	nd
13A	14	6	36	0.1	nd	5
B	18	10	42	0.1	10	nd
C	23	12	48	0.2	10	nd
14A	15	8	40	nd	10	5
B	18	13	49	nd	10	nd
C	22	24	52	0.1	10	nd
15A	14	11	38	0.1	nd	5
B	16	10	44	nd	nd	10
C	20	14	47	0.1	10	nd
16A	14	11	40	nd	10	5
B	13	9	33	nd	10	20
ACGS 16C	20	16	41	nd	nd	10

REMARKS:

Ag\* = AG background corrected.

1 copy to Mr. Roy Wares; Revelstoke, B.C.

Signed: 

% Mo x 1.6623 = % MoS<sub>2</sub>

1 Troy ounce = 34.26 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

• Specialising in Trace Elements Analysis

# Certificate of Geochemical Analyses

IN ACCOUNT WITH

**Northair Mines Ltd.**

Attention:

Report No: **81-69-019**

Page **2** of **5**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample	Cu	Pb	Zn	Ag*	Au	W
	ppm	ppm	ppm	ppm	ppb	ppm
ACGS 17A	14	8	40	0.4	nd	nd
B	17	9	39	0.1	nd	5
C	26	14	46	0.1	nd	nd
18A	21	7	40	nd	10	nd
B	30	10	44	0.2	nd	5
C	71	14	60	0.1	nd	5
19A	48	9	42	0.1	nd	5
B	12	11	43	0.1	nd	5
ACGS 19C	16	13	45	0.2	nd	10
HCGS 1A	8	9	24	0.1	nd	5
B	5	6	20	0.1	nd	10
C	11	8	25	nd	nd	10
2A	9	8	26	nd	nd	10
B	8	9	25	0.2	nd	10
C	10	15	32	nd	nd	20
3A	8	9	34	0.1	10	20
B	11	10	31	nd	10	5
C	14	15	34	nd	10	5
4A	8	7	25	0.1	nd	nd
B	10	9	21	nd	nd	5
C	12	16	29	nd	nd	10
5A	6	6	22	nd	10	nd
B	7	7	20	nd	10	nd
C	10	11	30	0.1	10	5
6A	19	9	30	nd	nd	10
B	10	6	22	nd	nd	5
C	12	5	31	0.1	nd	5
7A	13	9	26	0.1	10	10
B	8	5	24	nd	10	10
C	10	8	21	0.1	nd	20
8A	10	8	25	0.2	nd	5
B	11	11	26	0.1	10	5
C	13	15	36	0.1	nd	10
9A	10	8	29	0.1	10	20
B	9	7	26	0.1	10	10
HCGS 9C	11	8	26	0.2	10	10
LFC 1A	12	13	51	0.3	nd	10
B	11	12	50	0.1	nd	5
LFC 1C	15	16	55	0.2	nd	5

REMARKS: **Ag\* = Ag background corrected.**

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.26 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

• Specializing in Trace Elements Analysis •

# Certificate of Geochemical Analyses

Client Name:

**Northair Mines Ltd.**

Attention:

Report No: **81-69-019**

Page **3** of **5**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample	Matrix	Cu ppm	Pb ppm	Zn ppm	Ag* ppm	Au ppb	W ppm
LFC	2A	15	12	45	nd	20	nd
	B	18	14	47	0.2	10	5
	C	19	22	58	0.1	20	5
	3A	16	14	54	0.1	10	nd
	B	25	18	63	0.1	10	nd
LFC	C	18	21	66	0.2	nd	10
	4A	18	16	220	0.1	nd	nd
	B	14	19	221	nd	nd	5
	4C	13	21	250	0.1	nd	nd
	DCGS	1A	9	9	45	nd	10
LFC	B	11	8	40	nd	10	5
	C	10	9	33	0.1	nd	10
	2A	12	7	50	0.1	10	5
	B	14	6	42	0.1	nd	5
	C	14	17	41	0.1	10	10
LFC	3A	10	12	40	nd	nd	10
	B	12	9	38	nd	10	5
	C	14	16	40	0.1	10	10
	4A	10	7	45	nd	nd	10
	B	14	7	36	0.1	10	5
LFC	C	19	13	40	0.2	nd	5
	5A	12	8	45	0.2	nd	5
	B	11	11	44	nd	nd	5
	C	14	15	37	nd	nd	5
	7A	18	8	40	0.2	10	5
LFC	B	12	11	40	0.2	nd	5
	C	20	15	39	0.2	nd	nd
	8A	13	9	42	0.1	nd	nd
	B	15	12	36	nd	nd	nd
	C	20	19	34	nd	10	5
LFC	9A	12	8	41	0.1	10	5
	B	10	8	44	0.1	nd	nd
	C	11	9	34	0.1	nd	nd
	10A	12	7	42	nd	nd	nd
	B	10	8	36	0.1	nd	5
LFC	C	16	13	43	0.1	nd	5
	11B	12	10	40	nd	nd	nd
	C	21	24	46	nd	10	nd
DCGS	12A	8	8	35	nd	nd	nd

*LeFame  
Creek*

REMARKS: Ag\* = AG background corrected.

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

# Certificate of Geochemical Analyses

\* Specialising in Trace Elements Analyses \*

IN ACCOUNT WITH

**Northair Mines Ltd.**

Report No: **81-69-019**

Page **4** of **5**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Cu ppm	Pb ppm	Zn ppm	Ag* ppm	Au ppb	W ppm
DCGS 12B	13	14	50	0.8	nd	10
12C	22	24	51	0.3	nd	10
13A	9	11	50	0.1	nd	10
13B	12	16	56	nd	nd	10
13C	16	23	53	0.2	10	20
14A	10	10	58	nd	nd	20
14B	11	12	58	0.1	nd	10
14C	16	25	57	0.1	50	20
15A	14	10	54	nd	nd	5
15B	14	12	55	0.2	nd	5
15C	18	17	53	0.1	nd	5
16A	12	11	57	nd	nd	5
16B	15	16	47	0.1	nd	5
16C	19	19	50	0.1	nd	5
17A	14	12	58	0.2	10	5
17B	12	15	49	0.1	nd	5
17C	21	27	65	0.2	10	5
18A	9	10	53	nd	nd	5
18B	12	14	49	0.1	nd	10
18C	16	18	51	0.2	nd	5
19A	10	6	51	0.1	10	5
19B	12	10	50	0.1	10	10
19C	17	12	51	0.2	nd	10
20A	11	12	56	nd	nd	10
20B	11	13	51	nd	nd	10
DCGS 20C	14	19	52	0.2	nd	10
LCGS 6 A	10	11	56	nd	nd	10
6 B	14	11	54	nd	nd	5
LCGS 6 C	16	18	55	0.1	10	5
SCGS 1 A	12	14	52	nd	nd	1200
1 B	13	15	48	0.2	nd	800
1 C	29	21	75	nd	nd	2000
2 A	41	15	54	0.1	30	>2400
2 B	110	16	68	0.2	30	1600
2C	74	23	77	0.1	10	>2400
3 A	7	14	39	0.1	nd	10
3 B	13	13	44	0.1	nd	5
3 C	19	16	48	0.1	nd	5
SCGS 4 A	9	10	38	0.2	10	nd

*Discrim  
 Anal*

REMARKS:

**Ag\* = Ag background corrected.**

Signed: \_\_\_\_\_

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

• Specialising in Trace Elements Analyses •

# Certificate of Geochemical Analyses

—IN ACCOUNT WITH—

**Northair Mines Ltd.**

Report No: **81-69-019**

Page **5** of **5**

Samples Arrived:

Report Completed:

For Project:

Analyst:

Attention:

Sample Marking	Cu ppm	Pb ppm	Zn ppm	Ag* ppm	Au ppb	W ppm
SCGS 4B	9	7	39	0.1	10	5
C	20	10	41	0.5	nd	5
5A	8	10	38	0.2	nd	nd
B	10	11	43	0.4	10	5
C	17	15	43	0.3	nd	10
6A	8	8	36	0.2	nd	nd
B	8	6	39	0.3	nd	5
C	19	9	39	0.3	nd	5
7A	6	4	26	0.1	10	nd
B	10	7	31	nd	10	nd
C	17	9	33	0.1	nd	5
8A	6	4	29	0.1	10	5
B	9	8	30	0.2	nd	nd
C	10	11	36	0.1	nd	5
9A	6	9	32	0.4	10	nd
B	6	8	28	0.2	nd	nd
C	8	11	32	nd	nd	5
10A	6	8	29	0.1	nd	nd
B	8	9	24	0.1	10	nd
C	20	12	29	0.1	10	5
11A	6	8	25	0.1	10	10
B	8	11	27	0.2	nd	5
C	10	12	31	0.2	10	nd
12A	5	8	30	nd	nd	nd
B	6	9	25	0.2	nd	nd
C	8	14	30	nd	nd	nd
13A	6	6	29	0.1	nd	5
B	9	9	26	nd	nd	5
C	16	15	33	nd	10	5
15A	5	10	25	0.1	nd	nd
B	7	10	25	0.2	nd	nd
SCGS 15C	10	30	28	0.3	10	5

REMARKS: **Ag\* = AG background corrected.**

Signed: 

% Mo x 1.6683 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
 1521 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

*Thompson*  
 TELEPHONE: 986-5211  
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

### Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Northair Mines Ltd.  
 #1450 - 625 Howe Street  
 Vancouver, B.C. V6C 2T6  
 Attention:

Report No: 81-69-032 Page 1 of 2  
 Samples Arrived: October 27, 1981  
 Report Completed: November 6, 1981  
 For Project: 412 - 07 - NRM  
 Analyst: E.T. & VGC Staff  
 Invoice: 6612 Job # 81-377

Sample Marking	Pb ppm	Zn ppm	Ag ppm	W ppm		
811075	18	55	0.3	5		
76	16	57	0.1	5		
77	17	46	0.1	10		
78	8	27	nd	5		
79	13	39	nd	20		
80	12	35	0.1	20		
81	12	64	nd	20		
82	18	62	nd	10		
83	19	66	0.3	10		
84	5	21	0.1	5		
85	10	57	0.1	5		
86	14	32	0.3	5		
87	20	45	0.4	5		
88	16	42	0.3	5		
811089	12	50	0.1	5		
811151	12	73	nd	nd		
52	8	46	nd	10		
53	11	70	nd	10		
54	6	41	0.1	60		
55	11	46	nd	10		
56	8	43	nd	nd		
57	10	48	nd	nd		
58	8	41	nd	20		
59	9	32	nd	10		
60	8	42	nd	10		
61	10	54	0.1	nd		
62	8	45	nd	10		
63	10	55	nd	nd		
64	7	44	nd	5		
65	8	57	nd	nd		
66	6	45	nd	nd		
67	5	33	nd	5		
68	6	35	nd	5		
69	9	61	nd	nd		
811170	8	47	nd	nd		
811368	35	272	0.4	nd		
811410	21	66	0.6	nd		
11	12	38	0.1	5		
811412	10	45	nd	nd		

4 copies

REMARKS:

Signed:

% Mo x 1.6683 = % MoS<sub>2</sub>      1 Troy oz./ton = 34.28 ppm      1 ppm = 0.0001%      nd = none detected      ppm = parts per million  
 All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.



VANGEOCHEM LAB LTD.  
 1521 PEMBERTON AVE.,  
 NORTH VANCOUVER, B.C.,  
 CANADA V7P 2S3

TELEPHONE: 986-5211  
 AREA CODE: 604

• Specialising in Trace Elements Analyses •

### Certificate of Geochemical Analyses

-IN ACCOUNT WITH-

Northair Mines Ltd.

Attention:

Report No: 81-69-032

Page 2 of 2

Samples Arrived:

Report Completed:

For Project:

Analyst:

Sample Marking	Pb ppm	Zn ppm	Ag ppm	W ppm		
811413	8	45	0.4	5		
14	11	47	0.1	5		
15	12	54	0.3	5		
16	13	59	0.1	5		
17	10	38	0.1	20		
18	12	47	0.2	20		
19	8	60	nd	nd		
811420	6	20	0.1	5		

REMARKS:

Signed: 

% Mo x 1.6653 = % MoS<sub>2</sub>

1 Troy oz./ton = 34.28 ppm

1 ppm = 0.0001%

nd = none detected

ppm = parts per million

All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

STATEMENT OF QUALIFICATIONS

I, Roy Wares, with business address in the City of Vancouver, in the Province of B.C.

DO HEREBY CERTIFY THAT:

1. I am a graduate of the University of Aberdeen, with a B.Sc (Hons) degree in Geology and Queen's University, Kingston, Ontario, with a degree of M.Sc. in Geology.
2. At the time the work herein described, was performed, I was an Engineer-in-training with the Association of Professional Engineers of British Columbia.
3. I have practiced various levels in my profession in Canada for approximately eighteen years.
4. I am presently employed by Northair Mines and did personally conduct the programme described in this report.

R. Wares

Roy Wares

Dated at the City of Vancouver,  
In the Province of British Columbia,  
This 17th day of February 1982.



STATEMENT OF QUALIFICATIONS

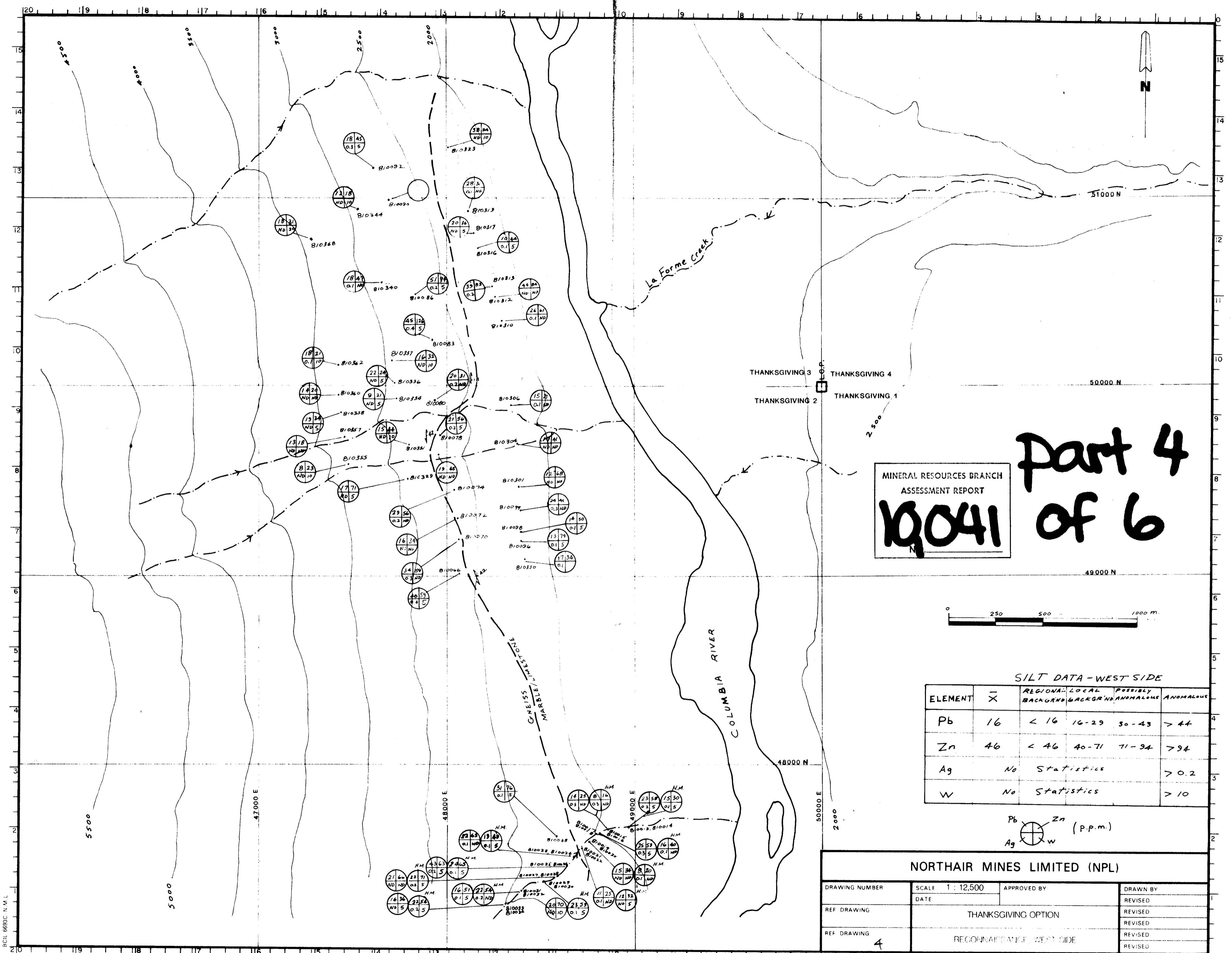
I, Fred G. Hewett, with business address in the City of Vancouver, and residential address in the District of Coquitlam, in the Province of British Columbia,  
DO HEREBY CERTIFY THAT:

1. I am a graduate of the University of British Columbia with a Bachelor of Science Degree in Geology.
2. I am a registered member of the Association of Professional Engineers of the Province of British Columbia.
3. I am a member of the Canadian Institute of Mining & Metallurgy, a fellow of the Geological Association of Canada, and member of the Society of Economic Geologist.
4. I have practiced various levels of my profession in Canada for approximately fifteen years.
5. I am presently employed by Northair Mines Ltd., and did personally supervise the work described in this report.



\_\_\_\_\_  
Fred G. Hewett, P. Eng.

Dated at the City of Vancouver,  
In the Province of British Columbia,  
This 17th day of February, 1982.



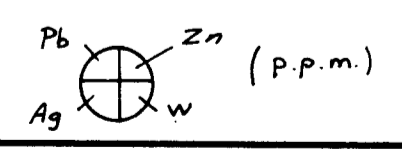
MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**19041**

**part 4  
of 6**



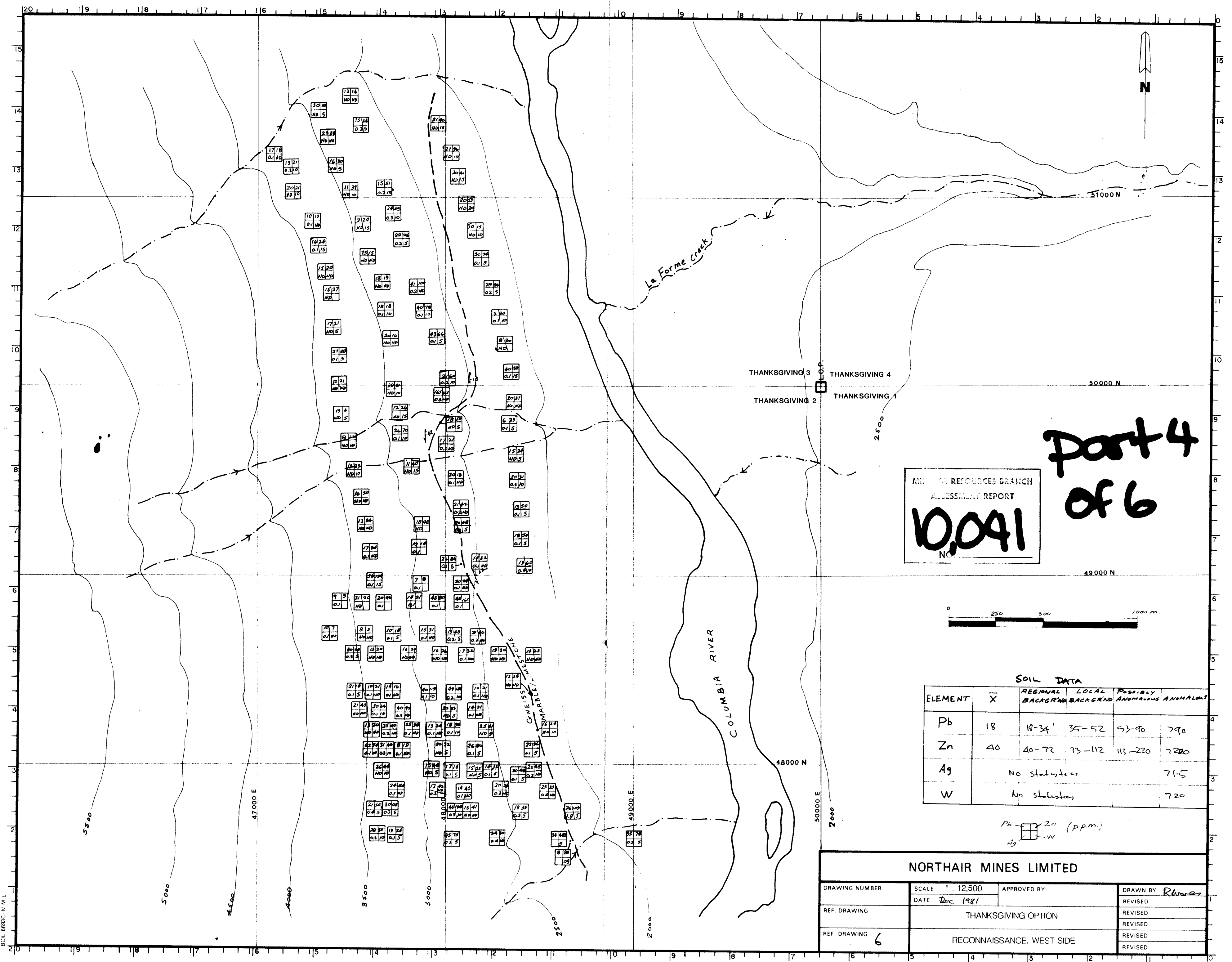
SILT DATA - WEST SIDE

ELEMENT	$\bar{X}$	REGIONAL BACKGROUND	LOCAL BACKGROUND	POSSIBLY ANOMALOUS	ANOMALOUS
Pb	16	< 16	16-29	30-43	> 44
Zn	46	< 46	40-71	71-94	> 94
Ag	No	Statistics			> 0.2
W	No	Statistics			> 10



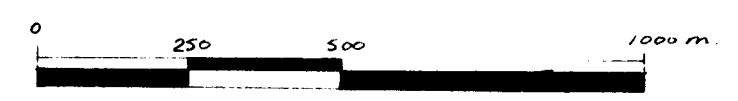
NORTH AIR MINES LIMITED (NPL)			
DRAWING NUMBER	SCALE 1:12,500	APPROVED BY	DRAWN BY
REF DRAWING	DATE	THANKSGIVING OPTION	REVISED
REF DRAWING	4	RECONNAISSANCE, WEST SIDE	REVISED

RCIL 6893C N.M.L.



**Part 4  
of 6**

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10,041**  
NO.



SOIL DATA

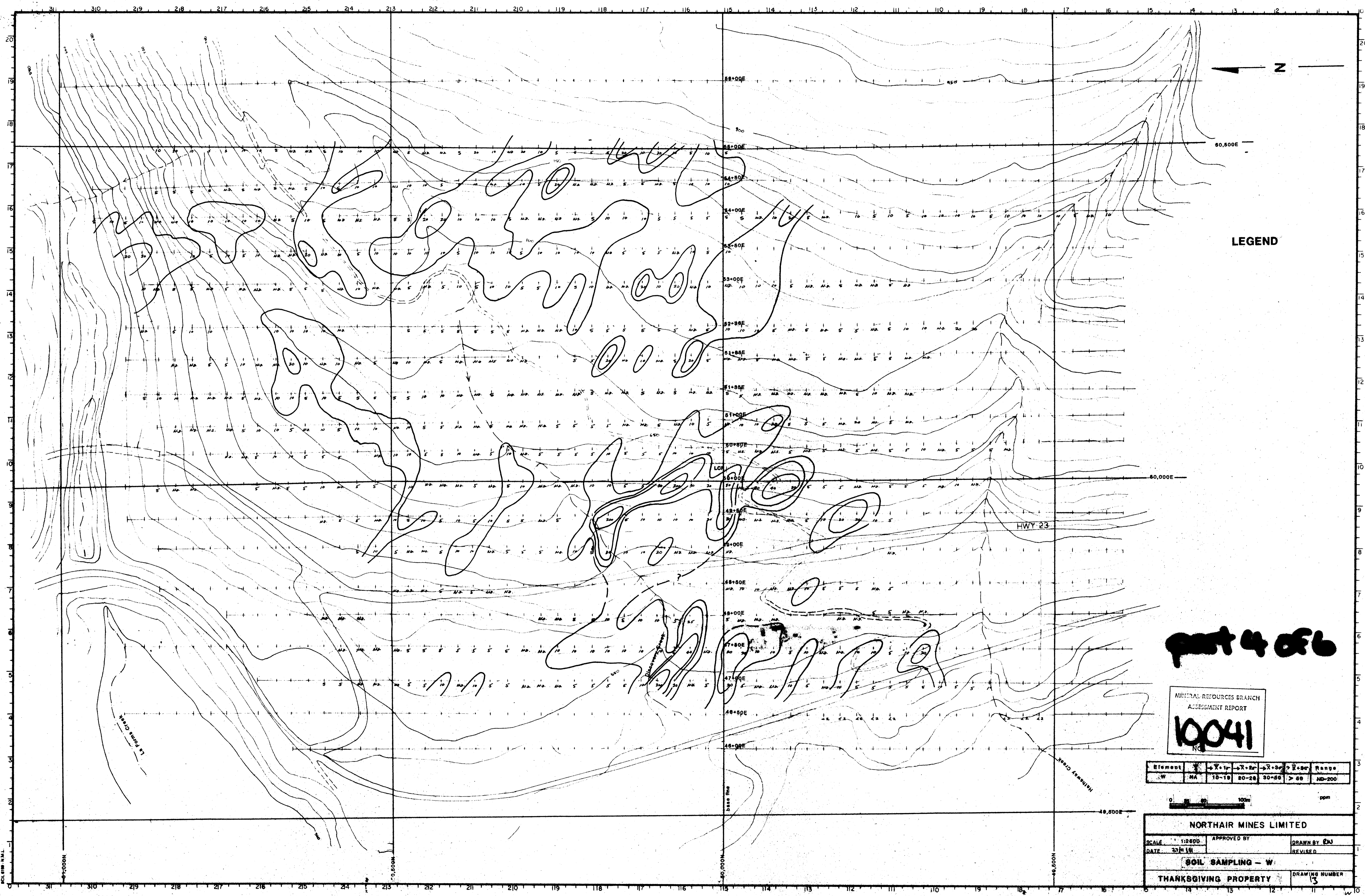
ELEMENT	$\bar{X}$	REGIONAL BACKGRND	LOCAL BACKGRND	POSSIBLY ANOMALOUS	ANOMALOUS
Pb	18	18-34	35-52	53-90	790
Zn	40	40-72	73-112	113-220	7200
Ag		No statistics			71.5
W		No statistics			720

Pb  $\square$  Zn (ppm)  
Ag  $\square$  W

**NORTH AIR MINES LIMITED**

DRAWING NUMBER	SCALE 1 : 12,500	APPROVED BY	DRAWN BY <i>Rhines</i>
REF DRAWING	DATE Dec 1981		REVISED
	THANKSGIVING OPTION		REVISED
REF DRAWING 6	RECONNAISSANCE, WEST SIDE		REVISED

BCIL 6683C-N.M.L.



LEGEND

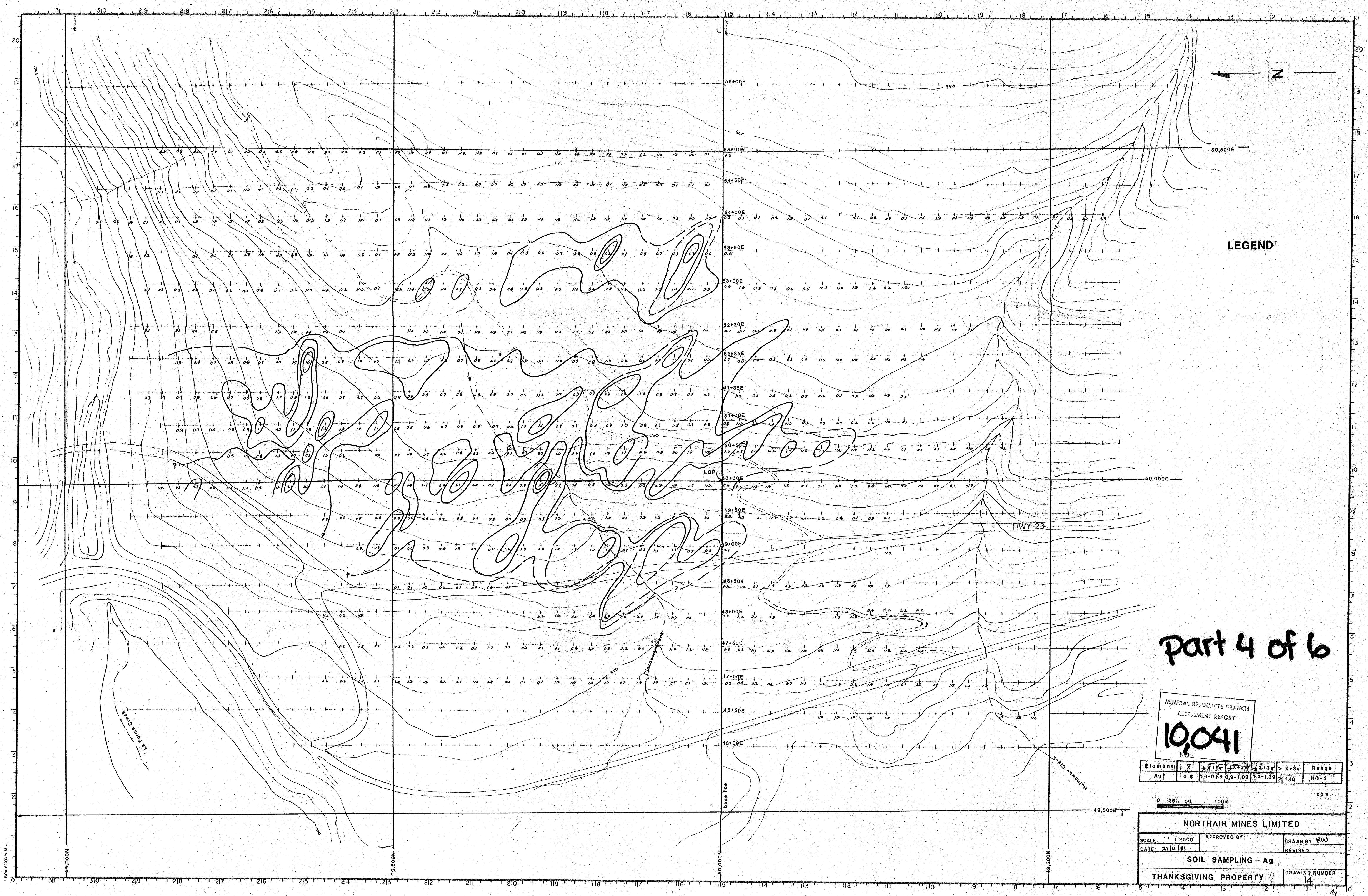
part 4 of 6

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10041**  
NO

Element	W	NA	10-19	20-29	30-50	> 50	Range
							ND-200



<b>NORTH AIR MINES LIMITED</b>	
SCALE 1:2500	APPROVED BY
DATE 23/1/14	DRAWN BY EAJ
<b>SOIL SAMPLING - W</b>	
THANKSGIVING PROPERTY	DRAWING NUMBER 13

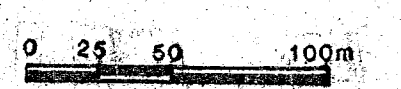


LEGEND

part 4 of 6

MINERAL RESOURCES BRANCH  
 ACCESSORY REPORT  
**10,041**  
 No.

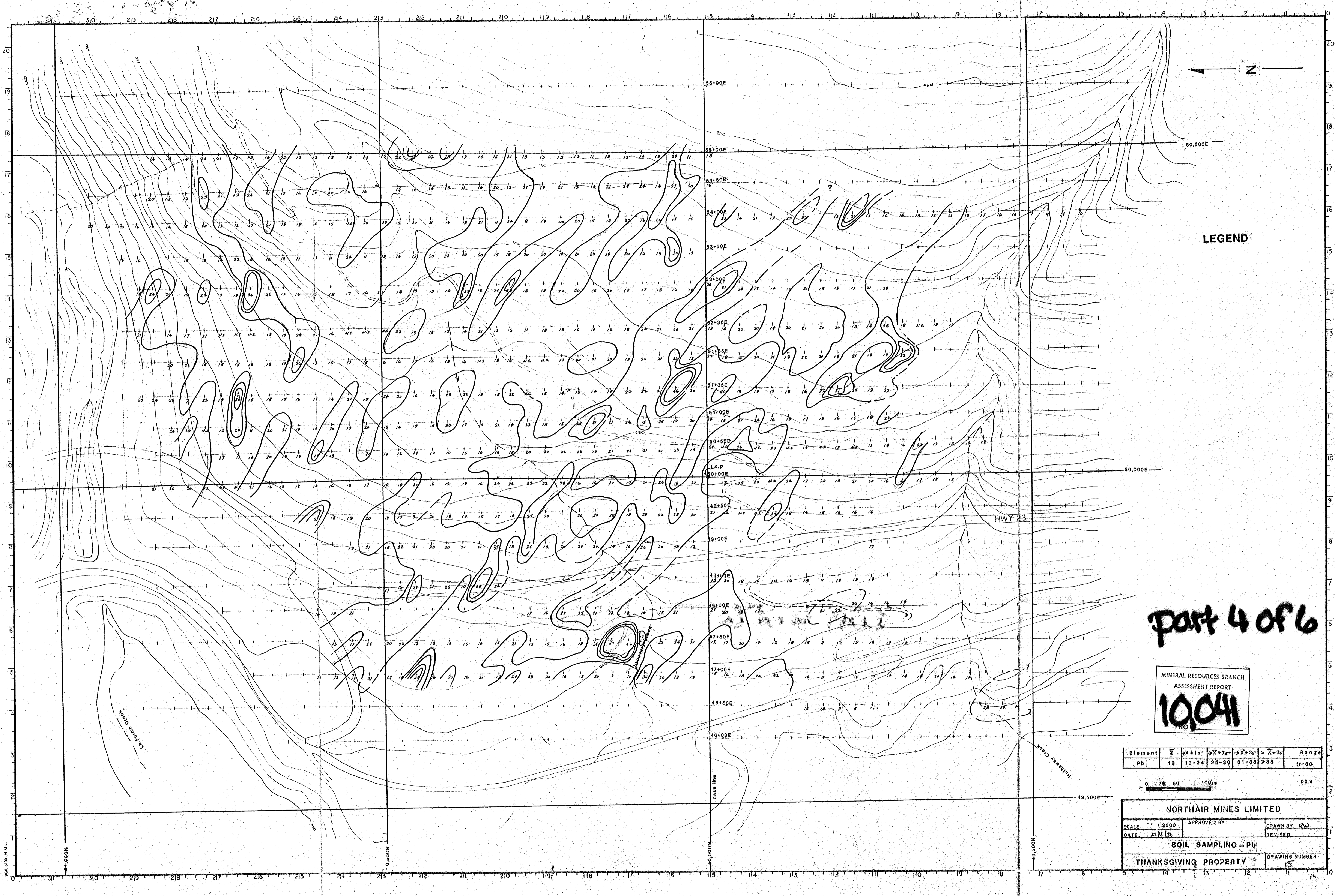
Element	X	X+1r	X+2r	X+3r	Range
Ag	0.6	0.8-0.89	0.9-1.09	1.1-1.39	> 1.40 ND-5



<b>NORTH AIR MINES LIMITED</b>	
SCALE 1:2500	APPROVED BY: _____
DATE: 2/11/91	DRAWN BY: RWJ
<b>SOIL SAMPLING - Ag</b>	
THANKSGIVING PROPERTY	DRAWING NUMBER 14

BCL 6186 - N.M.L.

Ag



LEGEND

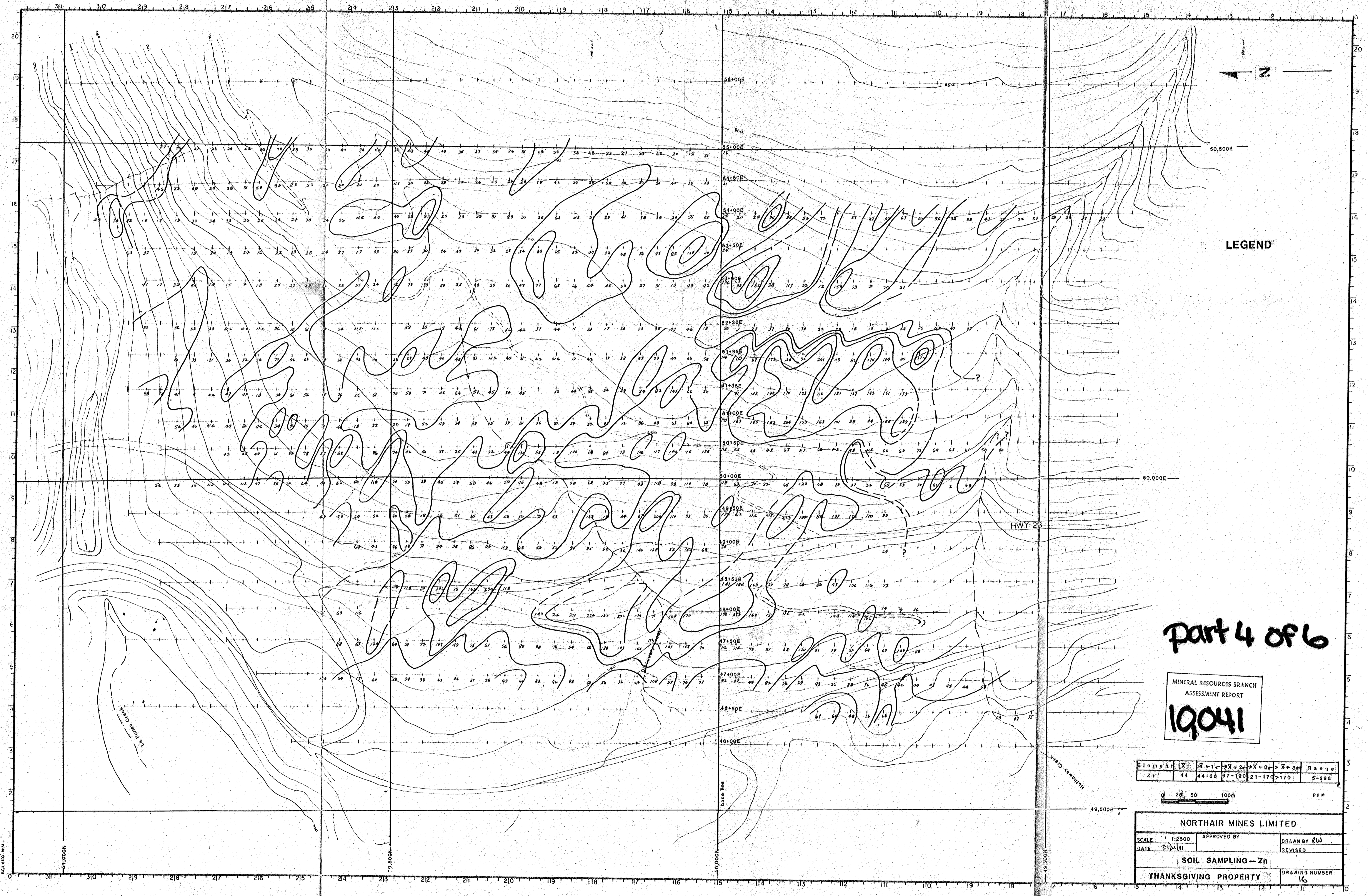
part 4 of 6

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**10,041**  
NO.

Element	X	X+1c	X+2c	X+3c	X+3c	Range
Pb	19	19-24	25-30	31-38	>38	tr-80

0 25 50 100m ppm

NORTH AIR MINES LIMITED			
SCALE 1:2500	APPROVED BY	DRAWN BY RW	
DATE 2/11/81		REVISED	
SOIL SAMPLING - Pb			
THANKSGIVING PROPERTY			DRAWING NUMBER 15



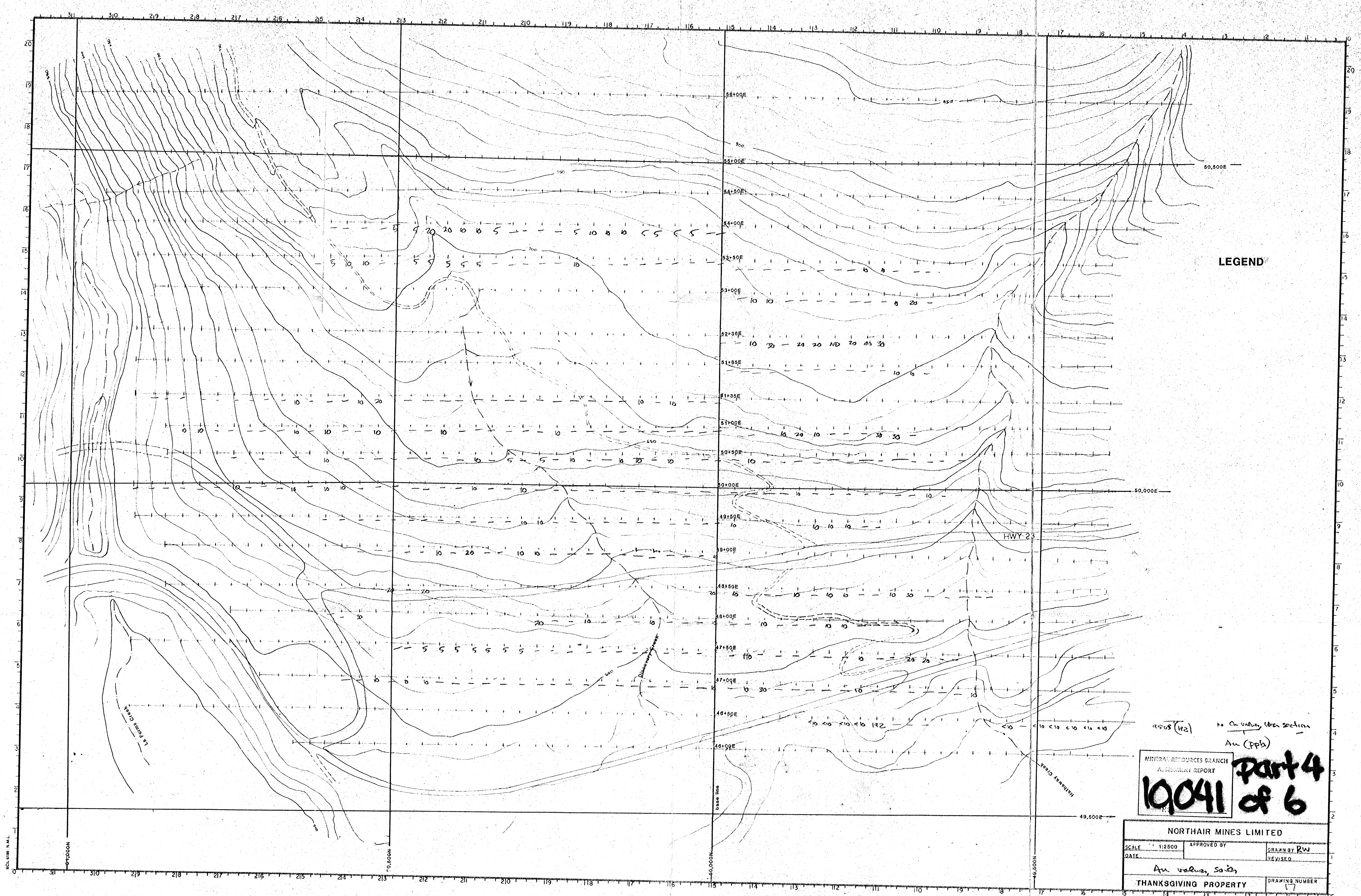
LEGEND

part 4 of 6

MINERAL RESOURCES BRANCH  
ASSESSMENT REPORT  
**19041**

Element	X	X+1	X+2	X+3	X+3a	Range
Zn	44	44-66	67-120	121-170	>170	5-298 ppm

NORTH AIR MINES LIMITED			
SCALE 1:2500	APPROVED BY	DRAWN BY <i>ELW</i>	
DATE 21/11/11		REVISED	
SOIL SAMPLING - Zn			
THANKSGIVING PROPERTY			DRAWING NUMBER 16



LEGEND

MINERAL RESOURCES BRANCH  
 ASSESSMENT REPORT  
**10041**  
 Part 4 of 6

NORTH AIR MINES LIMITED		
SCALE 1:2500	APPROVED BY	DRAWN BY RW
DATE		REVISED
Au values, 500g		DRAWING NUMBER 17
THANKSGIVING PROPERTY		

4505 (142) Au values (then section)  
 Au (ppb)



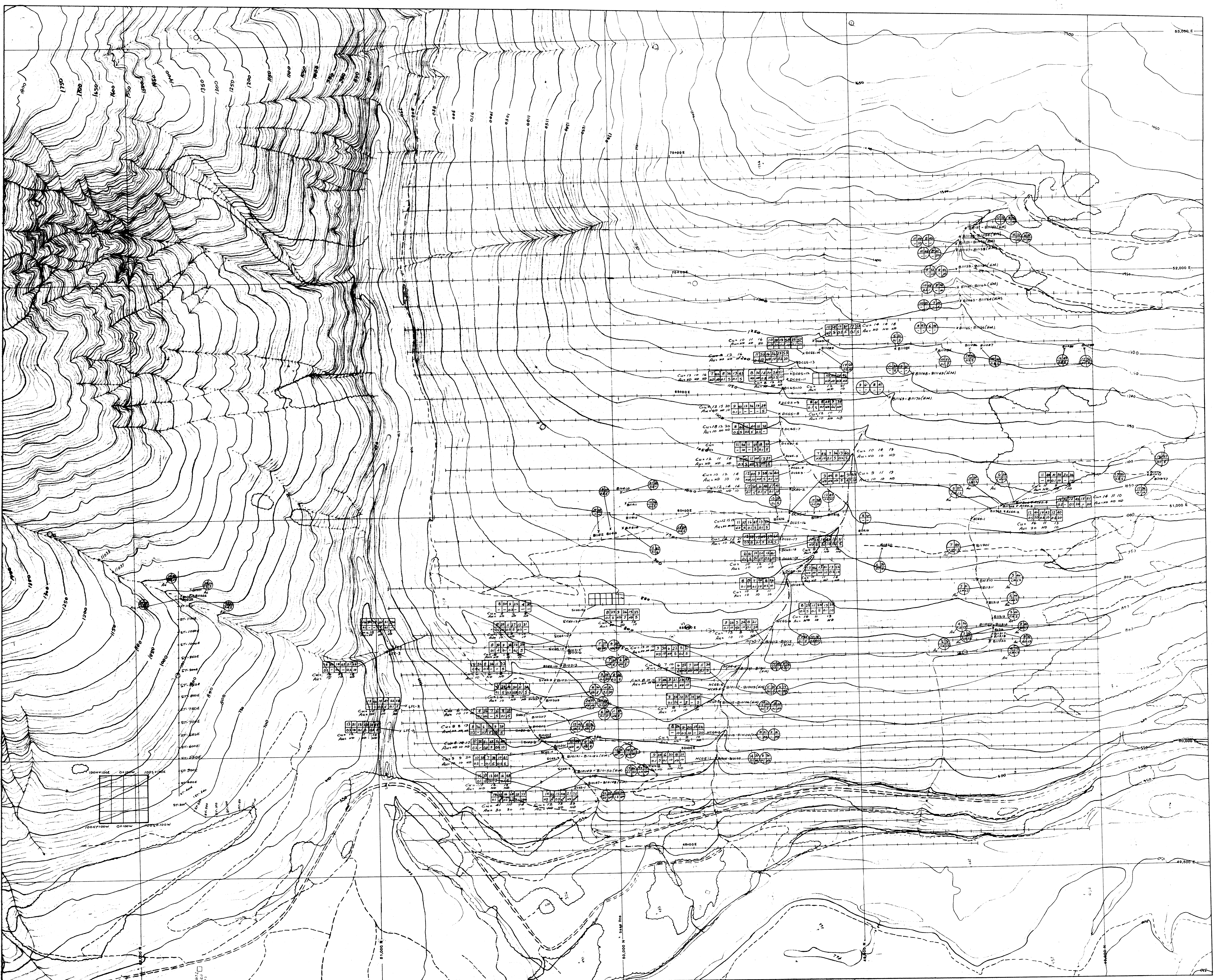
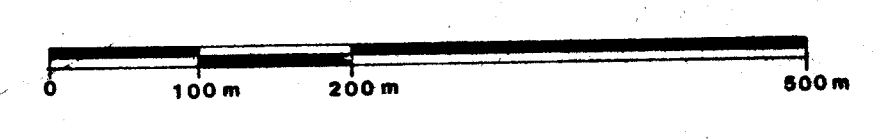
NORTHAIR MINES LTD.  
THANKSGIVING PROPERTY



MINERAL REPORT  
Accession No. 10041

Part 4  
of 6

Scale - 1 : 5000



STREAM GEOCHEMISTRY

KEY

- elements analysed
  - silt sample
  - silt, panned concentrate pair
  - group of three crushed gravel samples
- A < 10 μm  
B > 10 < 25 μm  
C > 25 μm

STATISTICS

Element	Silt Samples n=43	I±1σ	I±2σ	I±3σ	>1+3σ
Pb	10	10-15	16-22	22-29	>30
Zn	43	43-64	65-100	101-150	>150
Ag	No statistics				>1.5
W	No statistics				>20

Element	Panned silt n=28	I±1σ	I±2σ	I±3σ	>1+3σ
Pb	10	10-20	20-40	?	>60
Zn	30	39-60	61-80	80-140	>140
Ag	No statistics				
W	No statistics				

Element	Gravel samples n=44	I±1σ	I±2σ	I±3σ	>1+3σ
Pb	No data				>15
Zn	38	39-52	53-64	65-100	>100
Ag	No data				>1.5
W	No data				>20

Element	Gravel samples n=44	I±1σ	I±2σ	I±3σ	>1+3σ
Pb	14	14-21	22-26	27-29	>29
Zn	40	40-58	59-74	75-120	>120
Ag	No data				>1.5
W	No data				>20

Fig. 16  
Date - Jan. 1982