

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 89.05.19

ASSESSMENT REPORT 17375

MINING DIVISION: Greenwood

PROPERTY: Hek
 LOCATION: LAT 49 12 00 LONG 118 28 00
 UTM 11 5450505 393152
 NTS 082E01W

CLAIM(S): Hek, Hek 2
 OPERATOR(S): Noranda Ex.
 AUTHOR(S): Gill, D.G.
 REPORT YEAR: 1988, 65 Pages

COMMODITIES
 SEARCHED FOR: Gold
 GEOLOGICAL

SUMMARY: A Paleozoic-Triassic volcano-sedimentary package is intruded by Jurassic Nelson rocks and Tertiary Coryell syenite. A multiphased dyke swarm crosscuts all the latter rock types mainly in a northeast-southwest trend. Three zones of mineralization exist in the form of semi-massive to massive pyrite/pyrrhotite along the volcano-sedimentary/syenite contact. Epidote, biotite, chlorite and quartz alteration minerals are evident within the mineralized zone.

WORK
 DONE: Geological, Geochemical, Physical
 GEOL 100.0 ha
 Map(s) - 1; Scale(s) - 1:2500
 LINE 22.1 km
 ROCK 57 sample(s) ; CU, PB, ZN, MO, AS, AG, AU
 SOIL 753 sample(s) ; CU, PB, ZN, MO, AS, AG, AU
 Map(s) - 6; Scale(s) - 1:2500

RELATED
 REPORTS: 13546
 MINFILE: 082ESE072, 082ESE179

LOG NO: 0520	NO.
b.s.p.	
FILE NO:	

ASSESSMENT REPORT
ON THE
HEK CLAIM GROUP
N.T.S. 82E/1 & 82E/2
49°12'N Latitude 118°27'W Longitude
GREENWOOD MINING DIVISION

FILMED

SUB-RECORDER
RECEIVED
MAY 19 1983
M.R. # \$
VANCOUVER, B.C.

Graham Gill, Project Geologist
Noranda Exploration Company, Limited (no personal liability)

March 7, 1988

GEOLOGICAL BRANCH
ASSESSMENT REPORT

~~SUB-RECORDER
RECEIVED~~
M.R. # \$
VANCOUVER, B.C.

17,375

TABLE OF CONTENTS

	<u>PAGE</u>
I. INTRODUCTION	1
1. Location and Access	1
2. Topography and Physiography	1
3. Previous Work	1,2
4. Owner - Operator	2,3
5. Economic Potential	3
II. SUMMARY OF WORK DONE	3
1. Linecutting	3
2. Geochemistry	3
3. Geological Survey	4
4. Claims Worked	4
III. DETAILED TECHNICAL DATA	4
1. Geochemistry	4
i) Purpose	4
ii) Techniques	4,5
iii) Discussion of Results	5,6,7
2. Geological Survey	7
i) Purpose	7
ii) Regional Geology	8
iii) Detailed Geology	8-10
IV. CONCLUSIONS AND RECOMMENDATIONS	10
REFERENCES	

APPENDICES

- Appendix 1: Analytical Method Descriptions ✓
- Appendix 2: Geochemical Results and Descriptions ✓
- Appendix 3: Statement of Costs ✓
- Appendix 4: Statement of Qualifications ✓

DRAWINGS

- Drawing #1: Location and Claim Map ✓
- Drawing #2: Gold Soil Geochemistry ✓
- Drawing #3: Silver Soil Geochemistry ✓
- Drawing #4: Copper Soil Geochemistry ✓
- Drawing #5: Lead Soil Geochemistry ✓
- Drawing #6: Zinc Soil Geochemistry ✓
- Drawing #7: Arsenic Soil Geochemistry ✓
- Drawing #8: Geology and Rock Sample Location Map ✓

I. INTRODUCTION

1. Location and Access

The Hek group of claims is comprised of 97 units in the Greenwood Mining Division on N.T.S. mapsheet 82E/1 & 82E/2. The property is located approximately 18 km north of Grand Forks, B.C. with the southeast corner of the claim block located at the confluence of Pass Creek and the north fork of the Granby River.

Access to the property is obtained via the paved North Fork Road which runs along the west side of the Granby River for 18 km north of Grand Forks, B.C. From this point the Pass Creek haul road and other minor logging roads provide easy access to the property.

2. Topography and Physiography

The Hek property lies directly over a north-south trending ridge which is bordered to the west by Rock Candy Creek, to the east by the Granby River and to the south by Pass Creek. Three of the eight claims which comprise the property are located to the southeast of this ridge and overly the Granby River valley. The largest claim block of the group is located to the west of Rock Candy Creek along the adjacent east facing hillside. Terrain of the property ranges from flat fields and ranch lands to steep cliffs and bluffs. Maximum relief of the property is 2500 feet with a maximum elevation of 4300 feet.

Vegetation of the area ranges from mostly grassland and scrub bush on exposed southern slopes and tops of ridges to stands of fir and cedar in creek beds and along west and north facing slopes.

3. Previous Work

Due to the history of mining and exploration undertaken in the Greenwood area there is no doubt that prospecting and exploration programmes have been done on and around the present Hek property from the mid-1800's to the present.

Listed below is some of the more recently reported work done by various companies on this property.

- 1901 Small pits and rock cuts were excavated by prospectors. Property then known as the "Exchange".
- 1939 Hecla Mining shipped 364 tons of ore from the Simpson Mine to the Trail smelter after completing a programme of crosscutting and drifting.
- 1966-69 Byrell Minerals and Fento Mines conducted a survey consisting of I.P., diamond drilling (6 holes) and stripping on the Glover Zone.
- 1975-76 Geological mapping, magnetometer surveys and 1,973 feet of diamond drilling (CB-75-1 to 11) was completed by Consolidated Boundary Exploration Ltd.
- 1983 Soil geochemical and magnetometer surveys as well as a geological mapping and trenching programme were completed by Grand Forks Mines.
- 1984 427 feet of diamond drilling (CBG-84-1 and 2) was completed on the Main and Eastern Zones of the Hek property by Consolidated Boundary Exploration Ltd.
- 1986 Consolidated Boundary Exploration Ltd. completed a programme of 9 diamond drill holes (2,569 feet) on and around the Glover Creek Zone.

4. Owner - Operator

Seventy-seven of the units comprising the Hek property are owned by Consolidated Boundary Exploration Limited, P.O. Box 1739, Grand Forks, B.C. Noranda Exploration Company, Limited of 1050 Davie Street, Vancouver, B.C. is the sole operator of the property and owns the remaining 20 units of the claim group.

The following is a list of the claims which comprise the Hek property. Assessment work is to be applied to only those claims with an asterik beside their names.

<u>CLAIM NAME</u>	<u>OWNER</u>	<u>RECORD #</u>	<u>UNITS</u>	<u>ANNIV. DATE</u>
Hek	Consolidated Boundary	159	9	Nov. 19, 1990
Hel	Exploration Limited	211	16	Feb. 5, 1990
* Hek 2	P.O. Box 1739	4578	9	May 26, 1990
* Hek 3	Grand Forks, B.C.	4579	9	May 26, 1990
* Cougar	" "	4580	16	May 26, 1990
* Rock Candy	" "	4581	16	May 26, 1990
* Hek Fr.	" "	4582	1	May 26, 1990
* Sam Fr.	" "	4583	1	May 26, 1990
* Sara	Noranda Exploration Company, Limited (n.p.l.)	4605	20	Jun. 17, 1988

5. Economic Potential

Past work done on this property suggests that good gold mineralization exists within massive sulfide bodies which lie along a volcano-sedimentary/igneous contact. The work done between July 25, 1987 and August 17, 1987 was carried out in an effort to establish if the known mineralization had enough continuity and grade to be considered economically feasible and to locate any undiscovered auriferous zones.

II. SUMMARY OF WORK DONE

1. Linecutting

A total of 22.08 line km of slashed and metrically chained grid was cut in order to establish control for geological mapping plus geochemical and geophysical surveys. The grid itself consisted of a 1.45 km long baseline with winglines spaced 50 m apart ranging in length from 0.62 to 0.70 km.

2. Geochemistry

The geochemical survey carried out on the Hek property consisted of collecting soil and rock samples. The total number of samples and elements analyzed for each are listed below:

- Soils: 753 samples analyzed for Cu, Zn, Pb, Mo, As, Ag and Au.
- Rocks: 33 samples analyzed for Cu, Zn, Pb, Mo, As, Ag and Au.
- 24 samples analyzed for Ag and Au.

3. Geological Survey

Geological mapping at a scale of 1:2,500 was conducted along 20.63 km of grid line. In all, mapping covered an area of approximately 1.0315 square kilometres.

4. Claims Worked

All work during the report period was done on the Hek (159) and Hek 2 (4578) claims of the Hek property.

III. DETAILED TECHNICAL DATA

1. Geochemistry

i) Purpose

A total of 753 soil and 57 rock samples were taken on the Hek grid in order to test three main parameters (listed below) of the property:

1. To test for continuity of the existing sulfide zones using soil geochemistry.
2. To test the existing sulfide zones for their gold potential using litho-geochemistry.
3. To reveal any new mineralized zones by use of soil and litho-geochemistry of all rock types, alteration and contacts.

ii) Techniques

Soil sampling of the A and B soil horizons was completed along the winglines of the grid at a sample interval of 25 m. Sampling was done with the aid of a shovel or maddock to a depth of 15-30 cm and subsequently placed in brown 3½" x 6 1/8" open-ended Kraft envelopes for shipping and storage.

Rock specimens were collected as grab samples from various locations on the property wherever mineralization, alteration or a favourable representative rock type was encountered.

All samples were sent to Noranda's geochemical laboratory at 1050 Davie Street, Vancouver, B.C.

Appendix #1 is a flow sheet of analytical techniques used in the Noranda laboratory. Appendix #II is a list of all soil and rock samples with descriptions (where applicable) and geochemical results.

iii) Discussion of Results

Geochemical results of the soils and rocks are listed in Appendix #II. Drawings #2,3,4,5,6 and 7 show locations and results of the soil samples whereas rock sample locations are plotted on the geology map, Drawing #8. In case of anomalous soil results the drawings have been contoured based on threshold and first and second order anomalies obtained by statistical methods.

GOLD:

All samples taken on the Hek grid were analyzed for gold. Threshold and first and second order anomalies were determined to be 50, 100 and 200 ppb respectively. Gold results ranged from a low of 5 ppb to a high of 530 ppb in the soils and have been contoured on Drawing #2. Only spot anomalies of gold were observed on the grid. The highest values of these anomalies are centered over the areas described as the Main and Eastern sulfide zones although other anomalous results were obtained in areas underlain by Nelson and Coryell intrusives.

Of the 57 rocks collected during the survey only 7 revealed gold values of >1.0 g/t Au. These samples (23504, 23506, 23509, 23510, 60989, 76923 and 76924) are concentrated in the pyrite/pyrrhotite rich Main and Eastern zones located along the contact of the Knobhill volcanics and sediments and the Coryell syenite intrusives.

SILVER:

All samples taken on the Hek grid were analyzed for silver. The threshold and first and second order anomalies were determined to be 0.8, 1.0 and 1.2 ppm respectively. Although the results of this element are low the spot anomalies revealed are somewhat coincident with the gold results especially over the areas of Line 10100E and between Lines 10200E and 10250E. Other spot anomalies are seen in the northeast corner of the grid underlain by Nelson diorites and granodiorites (See Drawing #3).

Rock samples revealing higher than average silver results all appear to be related to the pyrite/pyrrhotite rich Main and Eastern zones and to the pyritic, siliceous volcanics and sediments adjacent to the main syenite intrusive. Sample numbers are listed below and locations can be seen on Drawing #8. (23504, 23505, 23506, 23507, 23508, 23509, 23510, 60988, 60989, 60993, 60998, 61000, 76923, 76924).

COPPER:

Threshold, first and second order anomalies for copper in soils were determined to be 60, 100 and 150 ppm respectively. These values have been contoured on Drawing #4. Again it is apparent that the anomalous zones overly the Eastern sulfide zone between Lines 10200E and 10250E and the northeastern portion of the grid which is underlain by volcanic-sedimentary pendants within Nelson intrusives cut by later Coryell latite dykes.

Eleven of the 33 rock samples analyzed for copper returned values of >200 ppm and were collected from the Main and Eastern sulfide zones. Sample numbers are as follows: 23504, 23506, 23507, 23509, 23510, 60987, 60988, 60998, 61000, 76923 and 76924.

LEAD:

All soil samples were analyzed for lead. Statistical methods returned values of 25, 35 and 45 ppm for threshold, first and second order anomalies respectively. Across the property spot anomalies appear to be commonly related to the Tertiary aged latite and trachyte dykes. Other lead anomalies seen on Drawing #5 are coincident with the Eastern sulfide zone and with sedimentary pendants within Nelson granodiorites and quartz diorites.

Only rock samples 23505 and 23510 were anomalous in lead, both of which were taken from the Eastern and Main sulfide zones.

ZINC:

All soil samples were analyzed for zinc. Threshold, first and second order anomalies were determined to be 150, 200 and 250 ppm respectively. See Drawing #6 for contoured values.

Five main zinc anomalies exist on this grid. The first anomaly is located between Lines 9650E and 9750E at approximately 10325N. The underlying geology of this area is a contact zone between Nelson granodiorites, Coryell monzonites and syenites as well as a Tertiary trachyte dyke.

The second main zinc anomaly is situated near the centre of the grid between Lines 9950E and 10200E and appears to be the result of both the Tertiary dyke swarm intruding into the larger syenite intrusive body and the pendants of Knobhill sediments and mafic volcanics.

The third anomalous zone is smaller than the previous two but sits directly over the Eastern sulfide zone as do all elements discussed so far.

The last two zinc anomalies exist in the northeast section of the grid. One of these zones is located between Lines 10650E and 10700E and is centered on 10225N. This zone is coincident with the Knobhill Group pendant hosted within Nelson intrusive rocks and is open to the east. The last zinc anomaly lies in the extreme northeast section of the grid where Tertiary latite dykes intrude Nelson diorites. Smaller pendants of Knobhill Group sediments are also located in this area.

Of the rock samples analyzed for zinc only those taken from the Main and Eastern sulfide zones and adjacent pyritic sediments proximal to these zones were anomalous. Anomalous sample numbers are as follows: 23505, 23507, 23509.

ARSENIC:

All soils were analyzed for arsenic with the threshold, first and second order anomalies determined to be 25, 30 and 35 ppm respectively. As is the case for all other elements previously noted the arsenic anomalies are situated over both the Eastern sulfide zone and the northeastern section of the grid where Nelson granodiorites and diorites host Knobhill Group pendants and are subsequently intruded by Tertiary latite dykes. See drawing #7 for contoured values.

Rock samples 23508 and 60998 returned anomalous values in arsenic.

MOLYBDENUM:

All soil samples were analyzed for molybdenum. Only a few samples returned slightly higher than background values and therefore this element has not been contoured. However, the spot anomalies that do occur are underlain by the Eastern sulfide zone, sedimentary and volcanic pendant material hosted within either the Coryell syenite or the Nelson granodiorite, or directly within the Nelson intrusive.

Rock samples 61000 and 76922 returned anomalous molybdenum results.

2. Geological Survey

i) Purpose

The Hek grid (see Drawing #8) was mapped at a scale of 1:2,500 over 20.63 km of grid line. The survey was conducted in an attempt to further delineate the known auriferous sulfide zones, to discover the genesis of the mineralization and to search for other gold bearing stratigraphy or structures.

ii) Regional Geology

The general geology of the Hek claim group consists primarily of Paleozoic-Triassic aged siliceous volcanics and hornfelsed sediments belonging to the Knobhill Group. This assemblage of rocks has been intruded by granodiorite, quartz diorite and diorite of the Jurassic aged Nelson intrusive. The latter has in turn been intruded by Tertiary aged Coryell syenites and monzonites. A dyke swarm consisting of latite, trachyte, feldspar porphyry, andesite and diorite components constitutes the last intrusive event in this area.

iii) Detailed Geology

The Hek grid was mapped at a scale of 1:2,500 which covered an area of 1.0315 square km. The following is a description and interpretation of the stratigraphy observed. See Drawing #8 for reference to geology and location of rock samples.

Beginning in the south central portion of the grid rocks of Paleozoic-Triassic age are encountered. Belonging to the Knobhill Group, this volcano-sedimentary assemblage can be broken into four categories which make up Unit 1. The first of these categories (1a) host rocks that are described as fine grained, siliceous meta-andesite and andesite agglomerates. Sub-unit 1b, 1c, and 1d are described as hornfelsed siltstones, fine to medium grained quartzites and fine to medium grained quartz-feldspar-biotite gneisses respectively.

This package of rocks has an overall east-west trend as far as distribution and remnant bedding are concerned.

Units 2 and 3 have been mapped as various phases of the Jurassic aged Nelson intrusive. Unit 2 is described as a fine to medium grained, dark green to grey diorite with crystalline pyroxene and feldspar phenocrysts.

Unit 3 comprises the more felsic components of the Nelson intrusive and its sub-units are described below:

- 3a) Fine to medium grained, mottled green, grey, white quartz diorite containing pyroxene, feldspar and 10-20% quartz.
- 3b) Medium grained, grey, biotite, hornblende rich granodiorite with blocky fracturing and light grey mottled weathering.
- 3c) Fine to medium grained, mottled grey, white, pinkish granite.

In terms of location, these units are found mostly in the northeast, northwest and southwest corners of the grid. Small bodies of this material are also located within the younger Coryell syenite and probably represent small roof pendants or later Tertiary dyke material.

Much of the centre portion of the Hek grid is underlain by the comagmatic Coryell intrusive which is described as a fine to coarse grained, pink to grey syenite (Unit #5) and a fine to coarse grained, grey to white monzonite (Unit #4). This intrusive body has intruded both the Nelson and Knobhill rock packages as seen on Drawing #8. The only area exempt of this alkali intrusive is to the east of the main gulley running from 10425E, 10550N to 10600E, 10000N. It is not known from field observations if this gulley represents a fault zone or is just a contact zone between the two intrusive bodies.

The last intrusive phase observed in the grid area is represented by a host of dyke rocks which were most likely emplaced during Tertiary extension (Fyles, 1987). Listed below is a geological description of each dyke rock:

- Unit #7: Very fine grained, light grey-green latite dyke with 5-10% white potassium feldspar phenocrysts ranging in size from 1 mm to 0.5 cm.
- Unit #8: Very fine grained, buff to pink coloured trachyte dyke containing 10-20% potassium feldspar phenocrysts.
- Unit #9: Very fine grained, siliceous, green andesite dyke with no porphyritic texture.
- Unit #10: Medium to coarse grained, mottled grey to white feldspar porphyry dyke.
- Unit #11: Medium to coarse grained, grey to dark green diorite dyke with abundant pyroxene phenocrysts.

These dykes are observed intruding all rock types on the grid with the latite and trachyte dykes being most commonly encountered. Although the orientation of most of the dykes appears quite irregular due to pinching and swelling a notable northeast-southwest and northwest-southeast pattern emerges.

Mineralization on the Hek property (Unit #6) is concentrated to the irregular contact zone between the Coryell syenite intrusive and the Knobhill volcano-sedimentary package. Two distinct mineralized zones are exposed on the property. The first one is located between 10030E and 10160E at approximately 10055N. This zone has been termed the Main Zone and is shown on Drawing #8. The second sulfide body (Eastern Zone) is located between 10190E and 10270E at 9975N. In both cases semi-massive to massive pyrite and pyrrhotite occurs in highly epidote and biotite altered

greenstones and sediments. These sulfide zones trend east-west and dip moderately to the north not unlike the attitude of the Knobhill rocks.

Drilling data provided by Consolidated Boundary Exploration Ltd. (1986) reveals that a third semi-massive to massive pyrite/pyrrhotite zone exists at depth on Line 9850E, 10135N (Glover Creek Zone) and that this zone is also hosted within hornfelsed sediments and altered greenstones in close proximity to the Coryell syenite intrusive. Three-point problems reveal that this zone has an approximate attitude of 098/57N. Similar calculations done on data obtained from the 1975 drilling programme of the Main Zone shows that this sulfide zone is oriented at 092/51N.

Mapping has revealed that the sulfide zones described above are offset from one another in an en echelon fashion. However, no evidence exists in the field to explain these breaks although the dominant northeast-southwest trend of the dyke swarm may in fact represent underlying fault structures.

IV. CONCLUSIONS AND RECOMMENDATIONS

1. Surficial mapping has indicated that semi-massive to massive zones of pyrite/pyrrhotite containing gold occur within biotite and epidote altered hornfelsed sediments and volcanics of the Knobhill Group adjacent to a Tertiary aged syenite intrusive.
2. The offset of these sulfide zones may be due to underlying faults depicted by the dominant northeast-southwest trend of the Tertiary dyke swarm.
3. The soil geochemical survey revealed only slightly anomalous values for the elements analyzed. Although this survey did manage to partially reflect the Main and Eastern sulfide showings, no anomalous values were returned from the Glover Creek zone. Anomalies discovered in areas underlain by volcano-sedimentary pendants within Nelson intrusives should be followed up.
4. The next phase of exploration should involve a detailed magnetometer and induced polarization survey to delineate hidden structures, the lateral extension of the known sulfide zones, other possible sulfide horizons and to test the potential of the geochemical anomalies in the northeast section of the grid.

REFERENCES

- Little, H.W., (1983)
G.S.C. Paper 79-29 Geology of the Greenwood Map area, British Columbia.
- Fyles, J.T., (1987)
Report on the Geological Setting of the Sara Claim - Rock Candy Creek.
- Meyer, W., (1976)
Assessment Report on the Geological, Geophysical and Geochemical Surveys and Diamond drilling on the Hek Group of Claims, Greenwood Mining Division.
- Sookochoff, L., (1986)
Assessment Report for Diamond Drilling Programme on the Hek Claim Group, Pass Creek Area, Greenwood Mining Division for Consolidated Boundary Exploration Ltd. and Grand Forks Mines Ltd.

APPENDIX 1

ANALYTICAL METHOD DESCRIPTIONS

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

Revised: 01/86

The methods listed are presently applied to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver. (March, 1984)

Preparation of Samples

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples) are analysed in its entirety, when it is to be determined for gold without further sample preparation. See addendum.

Analysis of Samples.

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition than that is used for silt or soil.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn (all the group A elements of the fee schedule) can be determined directly from the digest (dissolution) with an atomic absorption spectrometer (AA). A Varian-Techtron Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method

Antimony - Sb: 0.2 g sample is attacked with 3.3 mL of 6X tartaric acid, 1.5 mL conc. hydrochloric acid and 0.5 mL of conc. nitric acid, then heated in a water bath for 3 hours at 95° C. Sb is determined directly from the acid solution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.4 g sample is digested with 1.5 mL of 70 % perchloric acid and 0.5 mL of conc. nitric acid. A Varian AA-475 equipped with an As-EDL measures the arsenic concentration of the digest.

Barium - Ba: 0.1 g sample is decomposed with conc. perchloric, nitric and hydrofluoric acid. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 g - 0.3 g is digested with 2.0 ml of perchloric 70% and 1.0 ml of conc. nitric acid. Bismuth is determined directly from the digest into the flame of the AA instrument c/w EDL.

Gold - Au: 10.0 g sample (Pan-concentrates see below) is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with Methyl iso-Butyl ketone (MIBK) from the aqueous solution. Gold is determined from the MIBK solution with flame AA.

Magnesium - Mg: 0.05 - 0.10 g sample is digested with 4 ml perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot, taken from a perchloric-nitric (3:1) decomposition, usually from the multi-element digestion, is diluted with water and a phosphate buffer. This solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01 (10PPB)
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

APPENDIX 2

GEOCHEMICAL RESULTS AND DESCRIPTIONS



REPORT: 127-6244

HEK (DGG)

PROJECT: 176

PAGE 1

8708-082

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	As PPM
R2 23504		265	22	39	6	11
R2 23505		94	137	3200	2	21
R2 23506		315	18	88	3	22
R2 23507		940	9	395	3	15
R2 23508		55	25	108	4	320
R2 23509		1050	19	350	3	43
R2 23510		1000	205	220	3	9
R2 23511		72	18	45	3	49
R2 60987		255	20	145	6	39
R2 60988		270	79	70	5	40
R2 60989		136	16	58	11	4
R2 60990		21	10	20	3	10
R2 60991		24	9	36	5	4
R2 60992		32	8	28	3	10
R2 60993		59	6	49	3	15
R2 60994		36	9	240	2	6
R2 60995		25	12	148	5	4
R2 60996		44	8	15	2	8
R2 60997		44	11	66	2	20
R2 60998		3200	21	205	12	800
R2 60999		90	9	25	5	18
R2 61000		635	15	46	57	80
R2 76917		31	9	24	23	43
R2 76918		58	7	70	4	14
R2 76919		34	12	44	3	10
R2 76920		31	8	210	3	10
R2 76921		15	7	24	2	10
R2 76922		46	6	11	410	5
R2 76923		920	9	77	7	22
R2 76924		880	28	52	7	24
R2 76925		35	8	92	3	6

JK 62 2F



REPORT: 427-6244

PROJECT: 176

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GMT	Ag GMT
R2 23504		2.33	6.5
R2 23505		0.21	2.1
R2 23506		1.10	8.6
R2 23507		0.96	7.2
R2 23508		0.45	2.4
R2 23509		1.37	9.9
R2 23510		2.06	15.1
R2 23511		0.07	1.0
R2 60987		0.55	4.5
R2 60988		0.75	8.2
R2 60989		5.79	11.0
R2 60990		<0.07	0.7
R2 60991		0.07	0.7
R2 60992		<0.07	1.0
R2 60993		<0.07	2.1
R2 60994		<0.07	<0.7
R2 60995		<0.07	0.7
R2 60996		<0.07	<0.7
R2 60997		<0.07	<0.7
R2 60998		0.55	11.3
R2 60999		<0.07	<0.7
R2 61000		0.41	14.7
R2 76917		<0.07	<0.7
R2 76918		<0.07	0.7
R2 76919		<0.07	0.7
R2 76920		<0.07	<0.7
R2 76921		<0.07	<0.7
R2 76922		<0.07	0.7
R2 76923		2.40	7.5
R2 76924		3.50	15.1
R2 76925		0.07	1.0



8710-288

REPORT: 427-8588

HEK (GC)

PROJECT: 176

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au GHT	Ag GHT
---------------	---------------	--------	--------

R2 27226		0.07	<0.7
R2 27227		0.34	1.4
R2 27228		<0.07	<0.7
R2 27229		0.14	0.7
R2 27230		0.21	<0.7

R2 27231		0.17	1.4
R2 27232		0.10	<0.7
R2 27233		0.14	<0.7
R2 27234		0.14	<0.7
R2 27235		0.07	<0.7

R2 27236		0.17	<0.7
R2 27237		0.07	<0.7
R2 27238		<0.07	<0.7
R2 27239		0.07	<0.7
R2 27240		0.07	<0.7

R2 27241		<0.07	1.4
R2 27242		0.07	<0.7
R2 27243		0.07	<0.7
R2 27244		<0.07	<0.7
R2 27245		0.07	0.7

R2 27246		<0.07	<0.7
R2 27247		<0.07	<0.7
R2 27248		<0.07	<0.7
R2 27249		0.07	<0.7

26/10 JK GC 63 AP

[Handwritten Signature]

8712-012

ROSSBACHER LABORATORY LTD.

2225 S. SPRINGER AVENUE
BURNABY, B.C. V5B 3N1
TEL : (604) 299 - 6910

CERTIFICATE OF ANALYSIS

CLIENT: NORANDA EXPLORATION CO. LTD.
1050 DAVIE STREET
VANCOUVER B.C.

CERTIFICATE#: 87851
INVOICE#: 80282
DATE ENTERED: 87-12-09
FILE NAME: NOR87851
PAGE # : 1

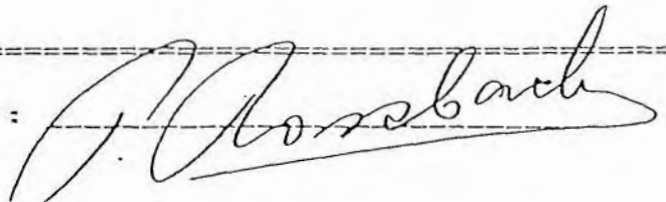
PROJECT: 176 8712-012
TYPE OF ANALYSIS: ASSAY

HEK (JGG)

E X	SAMPLE NAME	oz/t	oz/t	PPM	PPM	PPM	PPM	PPM
		Au	Ag	Mo	Cu	Zn	Pb	As
	14476	0.001	0.02	1	16	86	6	2
	14477	0.001	0.02	1	18	80	6	2

dec 17 6 5 60

CERTIFIED BY :



GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9400.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	10	56	10	0.4	1	1	10	nil	nil
9875.0N	14	74	10	0.4	1	1	10	nil	nil
9900.0N	10	62	6	0.4	2	1	10	nil	nil
9925.0N	8	44	6	0.4	2	1	10	nil	nil
9950.0N	12	66	6	0.6	1	1	10	nil	nil
9975.0N	20	100	14	0.4	1	2	10	nil	nil
10000.0N	24	110	22	0.6	2	2	10	nil	nil
10025.0N	20	84	20	0.6	10	2	10	nil	nil
10050.0N	24	70	10	0.6	8	2	10	nil	nil
10075.0N	20	78	8	0.4	10	2	10	nil	nil
10100.0N	18	56	6	0.6	4	1	10	nil	nil
10125.0N	20	76	4	0.4	4	1	10	nil	nil
10150.0N	24	76	8	0.6	1	1	10	nil	nil
10175.0N	26	66	12	0.4	12	1	10	nil	nil
10200.0N	16	78	10	0.4	4	2	10	nil	nil
10225.0N	16	64	10	0.4	10	2	10	nil	nil
10250.0N	18	80	6	0.4	8	2	10	nil	nil
10275.0N	22	60	6	0.4	6	2	10	nil	nil
10300.0N	26	82	8	0.4	4	2	10	nil	nil
10325.0N	30	110	8	0.4	1	2	10	nil	nil
10350.0N	22	80	10	0.4	1	2	10	nil	nil
10375.0N	32	110	8	0.4	2	2	10	nil	nil
10400.0N	28	120	12	0.6	1	2	10	nil	nil
10425.0N	24	130	22	0.6	6	2	10	nil	nil
10450.0N	18	94	10	0.4	2	2	10	nil	nil
10475.0N	18	90	10	0.4	1	2	10	nil	nil
10500.0N	20	86	12	0.4	1	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9450.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mg PPM	Au PPB	undef undef	undef undef
9850.0N	12	60	8	0.4	1	2	10	nil	nil
9875.0N	12	44	6	0.4	1	2	10	nil	nil
9900.0N	14	78	6	0.4	4	1	10	nil	nil
9925.0N	16	78	4	0.4	2	1	10	nil	nil
9950.0N	18	80	12	0.6	8	2	10	nil	nil
9975.0N	18	94	8	0.4	4	1	10	nil	nil
10000.0N	16	74	8	0.4	2	1	10	nil	nil
10025.0N	24	110	10	0.8	4	2	10	nil	nil
10050.0N	24	74	8	0.6	8	2	10	nil	nil
10075.0N	16	80	6	0.6	2	2	10	nil	nil
10100.0N	16	80	8	0.4	6	2	10	nil	nil
10125.0N	16	100	6	0.4	4	2	10	nil	nil
10150.0N	20	120	14	0.6	8	2	10	nil	nil
10175.0N	18	82	8	0.4	1	2	10	nil	nil
10200.0N	16	110	8	0.4	10	2	10	nil	nil
10225.0N	22	110	8	0.4	2	2	10	nil	nil
10250.0N	16	110	10	0.4	1	2	10	nil	nil
10275.0N	20	90	10	0.4	1	2	10	nil	nil
10300.0N	20	98	10	0.6	1	2	10	nil	nil
10325.0N	26	100	12	0.6	1	2	10	nil	nil
10350.0N	22	92	12	0.6	1	4	10	nil	nil
10375.0N	16	70	6	0.4	1	2	10	nil	nil
10400.0N	18	80	4	0.2	2	2	10	nil	nil
10425.0N	20	100	10	0.6	1	2	10	nil	nil
10450.0N	22	90	12	0.6	4	4	10	nil	nil
10475.0N	26	110	14	0.6	6	2	10	nil	nil
10500.0N	26	100	14	0.6	1	4	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9500.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	14	60	8	0.2	1	2	10	nil	nil
9875.0N	16	70	18	0.4	6	2	10	nil	nil
9900.0N	14	70	6	0.4	1	2	10	nil	nil
9925.0N	14	82	4	0.4	2	2	10	nil	nil
9950.0N	18	90	8	0.4	2	2	10	nil	nil
9975.0N	18	110	6	0.4	1	2	10	nil	nil
10000.0N	24	100	12	0.4	1	2	10	nil	nil
10025.0N	26	110	12	0.4	1	2	10	nil	nil
10050.0N	20	100	16	0.4	1	2	10	nil	nil
10075.0N	20	90	18	0.6	2	2	10	nil	nil
10100.0N	16	90	14	0.4	1	2	10	nil	nil
10125.0N	44	130	26	0.6	4	2	10	nil	nil
10150.0N	20	110	12	0.4	2	2	10	nil	nil
10175.0N	20	100	10	0.4	1	4	10	nil	nil
10200.0N	26	120	6	0.4	1	2	10	nil	nil
10225.0N	22	120	6	0.4	6	2	10	nil	nil
10250.0N	22	76	8	0.2	2	2	10	nil	nil
10275.0N	34	110	12	0.6	1	2	10	nil	nil
10300.0N	30	100	12	0.2	2	2	10	nil	nil
10325.0N	40	100	6	0.4	8	2	10	nil	nil
10350.0N	24	66	14	0.4	6	2	10	nil	nil
10375.0N	32	110	16	0.4	6	2	10	nil	nil
10400.0N	18	84	12	0.4	1	2	10	nil	nil
10425.0N	20	80	8	0.4	6	2	10	nil	nil
10450.0N	22	140	8	0.4	4	2	10	nil	nil
10475.0N	16	110	8	0.2	2	1	10	nil	nil
10500.0N	28	72	6	0.2	4	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9550.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	22	80	10	0.2	1	2	10	nil	nil
9875.0N	16	76	8	0.4	1	2	10	nil	nil
9900.0N	18	74	8	0.4	1	2	10	nil	nil
9925.0N	12	52	8	0.2	1	2	10	nil	nil
9950.0N	14	58	8	0.2	1	2	10	nil	nil
9975.0N	18	70	10	0.2	1	2	10	nil	nil
10000.0N	28	98	16	0.4	1	2	10	nil	nil
10025.0N	24	100	12	0.4	1	2	10	nil	nil
10050.0N	20	100	14	0.6	1	2	10	nil	nil
10075.0N	20	120	10	0.6	1	2	10	nil	nil
10100.0N	18	100	10	0.4	1	2	10	nil	nil
10125.0N	16	84	10	0.4	1	1	10	nil	nil
10150.0N	26	170	6	0.4	6	1	10	nil	nil
10175.0N	18	96	12	0.6	1	1	10	nil	nil
10200.0N	26	120	14	0.6	4	2	10	nil	nil
10225.0N	30	140	16	0.6	4	2	10	nil	nil
10250.0N	22	98	14	0.6	2	2	10	nil	nil
10275.0N	20	88	10	0.4	1	2	10	nil	nil
10300.0N	26	88	12	0.6	1	2	10	nil	nil
10325.0N	28	94	12	1.6	6	2	10	nil	nil
10350.0N	24	110	12	0.4	1	2	10	nil	nil
10375.0N	22	90	12	0.4	1	2	10	nil	nil
10400.0N	22	100	18	0.6	1	2	10	nil	nil
10425.0N	20	96	18	0.4	1	2	10	nil	nil
10450.0N	20	110	16	0.4	2	2	10	nil	nil
10475.0N	20	98	14	0.6	2	2	10	nil	nil
10500.0N	14	64	2	0.2	1	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9600.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	14	66	4	0.2	1	1	10	nil	nil
9875.0N	10	60	2	0.2	1	1	10	nil	nil
9900.0N	10	52	1	0.2	1	1	10	nil	nil
9925.0N	10	40	1	0.2	1	1	10	nil	nil
9950.0N	12	86	2	0.2	1	1	10	nil	nil
9975.0N	22	76	1	0.2	1	1	10	nil	nil
10000.0N	22	100	1	0.2	1	1	10	nil	nil
10025.0N	18	86	6	0.2	1	1	10	nil	nil
10050.0N	16	110	2	0.2	1	2	10	nil	nil
10075.0N	18	94	4	0.2	1	1	10	nil	nil
10100.0N	18	120	10	0.2	1	1	10	nil	nil
10125.0N	16	94	8	0.2	1	2	10	nil	nil
10150.0N	28	170	14	0.2	1	4	10	nil	nil
10175.0N	18	140	8	0.2	1	2	10	nil	nil
10200.0N	16	110	8	0.2	1	2	10	nil	nil
10225.0N	24	120	12	0.2	1	1	10	nil	nil
10250.0N	22	120	6	0.2	1	2	10	nil	nil
10275.0N	24	140	12	0.2	1	2	10	nil	nil
10300.0N	18	92	12	0.2	1	4	10	nil	nil
10325.0N	26	98	8	0.2	1	2	10	nil	nil
10350.0N	16	98	10	0.2	1	2	10	nil	nil
10375.0N	22	100	16	0.2	1	2	10	nil	nil
10400.0N	16	82	6	0.2	1	2	10	nil	nil
10425.0N	18	90	10	0.2	1	1	10	nil	nil
10450.0N	24	100	8	0.2	1	2	10	nil	nil
10475.0N	18	100	10	0.2	1	4	10	nil	nil
10500.0N	28	76	8	0.2	8	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9650.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	14	66	2	0.2	1	2	10	nil	nil
9875.0N	18	88	6	0.2	1	1	10	nil	nil
9900.0N	10	60	4	0.2	1	2	10	nil	nil
9925.0N	10	48	4	0.2	1	1	10	nil	nil
9950.0N	12	62	4	0.2	1	2	10	nil	nil
9975.0N	12	72	6	0.2	1	2	10	nil	nil
10000.0N	22	150	4	0.2	1	2	10	nil	nil
10025.0N	22	130	6	0.2	1	4	10	nil	nil
10050.0N	20	100	8	0.2	1	4	10	nil	nil
10075.0N	22	80	6	0.2	1	4	10	nil	nil
10100.0N	16	86	6	0.2	1	4	10	nil	nil
10125.0N	18	80	6	0.2	1	2	10	nil	nil
10150.0N	16	66	4	0.2	1	2	10	nil	nil
10175.0N	18	80	2	0.2	1	2	10	nil	nil
10200.0N	16	84	6	0.2	1	2	10	nil	nil
10225.0N	16	90	4	0.2	1	2	10	nil	nil
10250.0N	26	82	2	0.2	1	2	10	nil	nil
10275.0N	18	100	1	0.2	1	2	10	nil	nil
10300.0N	32	200	8	0.2	1	4	20	nil	nil
10325.0N	70	290	16	0.4	20	4	10	nil	nil
10350.0N	14	100	6	0.2	1	2	10	nil	nil
10375.0N	16	88	10	0.2	1	2	10	nil	nil
10400.0N	20	90	14	0.2	1	1	10	nil	nil
10425.0N	22	88	12	0.2	1	1	10	nil	nil
10450.0N	20	98	8	0.2	1	1	10	nil	nil
10475.0N	16	94	6	0.2	1	1	10	nil	nil
10500.0N	18	80	6	0.2	1	1	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9700.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	18	88	4	0.2	1	1	10	nil	nil
9875.0N	20	140	10	0.2	1	2	10	nil	nil
9900.0N	18	64	4	0.2	1	2	10	nil	nil
9925.0N	16	50	1	0.2	1	1	10	nil	nil
9950.0N	12	74	4	0.2	1	1	10	nil	nil
9975.0N	18	66	4	0.2	1	1	10	nil	nil
10000.0N	10	64	2	0.2	1	1	10	nil	nil
10025.0N	14	80	1	0.2	1	2	10	nil	nil
10050.0N	22	140	6	0.2	1	2	10	nil	nil
10075.0N	22	76	4	0.2	1	1	10	nil	nil
10100.0N	26	100	4	0.2	1	2	10	nil	nil
10125.0N	22	86	1	0.2	1	2	10	nil	nil
10150.0N	22	98	6	0.2	1	2	10	nil	nil
10175.0N	20	60	2	0.2	1	2	10	nil	nil
10200.0N	14	50	2	0.2	1	2	10	nil	nil
10225.0N	16	80	4	0.2	1	2	10	nil	nil
10250.0N	12	64	1	0.2	1	2	10	nil	nil
10275.0N	16	98	4	0.2	1	2	10	nil	nil
10300.0N	8	66	1	0.2	2	2	10	nil	nil
10325.0N	20	230	12	0.2	1	1	10	nil	nil
10350.0N	14	160	2	0.2	1	2	10	nil	nil
10375.0N	10	82	1	0.2	1	2	10	nil	nil
10400.0N	18	120	16	0.4	1	2	10	nil	nil
10425.0N	16	150	1	0.2	1	1	10	nil	nil
10450.0N	18	150	1	0.2	1	1	10	nil	nil
10475.0N	28	120	4	0.2	1	2	10	nil	nil
10500.0N	24	76	8	0.2	1	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9750.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	14	86	6	0.2	1	2	10	nil	nil
9875.0N	14	74	6	0.2	1	2	10	nil	nil
9900.0N	20	120	4	0.2	1	2	10	nil	nil
9925.0N	16	66	8	0.2	1	2	10	nil	nil
9950.0N	16	60	4	0.2	1	1	10	nil	nil
9975.0N	10	58	2	0.2	2	2	10	nil	nil
10000.0N	12	50	4	0.2	1	1	10	nil	nil
10025.0N	14	64	8	0.4	1	2	10	nil	nil
10050.0N	30	110	18	0.2	1	1	10	nil	nil
10075.0N	24	140	12	0.2	1	2	10	nil	nil
10100.0N	20	70	10	0.2	1	2	10	nil	nil
10125.0N	20	70	6	0.4	1	2	10	nil	nil
10150.0N	18	120	8	0.2	1	1	10	nil	nil
10175.0N	20	140	4	0.2	1	1	10	nil	nil
10200.0N	14	76	4	0.4	1	2	30	nil	nil
10225.0N	14	92	4	0.2	1	1	10	nil	nil
10250.0N	32	82	4	0.4	1	2	10	nil	nil
10275.0N	40	98	34	0.4	1	1	10	nil	nil
10300.0N	26	100	18	0.4	1	1	10	nil	nil
10325.0N	22	140	8	0.2	1	1	10	nil	nil
10350.0N	18	120	6	0.2	1	1	10	nil	nil
10375.0N	18	160	20	0.2	1	2	10	nil	nil
10400.0N	20	130	8	0.2	1	2	10	nil	nil
10425.0N	20	96	6	0.2	1	1	10	nil	nil
10450.0N	22	90	4	0.4	4	2	10	nil	nil
10475.0N	20	100	1	0.2	1	1	10	nil	nil
10500.0N	12	66	1	0.2	1	1	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9800.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	18	120	6	0.4	1	2	10	nil	nil
9875.0N	18	210	10	0.4	6	1	10	nil	nil
9900.0N	24	120	8	0.4	4	2	10	nil	nil
9925.0N	24	130	12	0.6	10	1	10	nil	nil
9950.0N	16	80	10	0.4	6	1	10	nil	nil
9975.0N	14	150	6	0.4	14	1	10	nil	nil
10000.0N	18	74	6	0.4	6	1	10	nil	nil
10025.0N	26	160	10	0.4	6	1	10	nil	nil
10050.0N	26	100	16	0.4	4	2	10	nil	nil
10075.0N	20	70	8	0.4	4	2	10	nil	nil
10100.0N	14	68	6	0.4	1	2	10	nil	nil
10125.0N	22	140	12	0.4	2	1	10	nil	nil
10150.0N	22	94	6	0.4	1	2	10	nil	nil
10175.0N	18	72	8	0.4	1	1	10	nil	nil
10200.0N	30	100	12	0.4	1	1	10	nil	nil
10225.0N	16	90	10	0.6	10	2	10	nil	nil
10250.0N	24	110	12	0.6	1	2	10	nil	nil
10275.0N	18	70	6	0.6	1	2	10	nil	nil
10300.0N	20	110	4	0.4	1	2	10	nil	nil
10325.0N	16	98	12	0.4	2	2	10	nil	nil
10350.0N	24	76	6	0.4	1	1	10	nil	nil
10375.0N	18	74	12	0.4	1	2	10	nil	nil
10400.0N	20	84	12	0.6	1	1	10	nil	nil
10425.0N	16	66	10	0.6	1	2	10	nil	nil
10450.0N	26	90	10	0.4	1	1	10	nil	nil
10475.0N	20	86	10	0.4	4	1	10	nil	nil
10500.0N	16	66	8	0.2	1	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9850.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	18	74	8	0.4	2	2	10	nil	nil
9875.0N	14	54	6	0.2	2	1	10	nil	nil
9900.0N	14	50	6	0.2	1	1	10	nil	nil
9925.0N	14	54	8	0.2	1	1	10	nil	nil
9950.0N	12	72	6	0.4	1	1	10	nil	nil
9975.0N	10	58	4	0.4	1	2	10	nil	nil
10000.0N	10	72	6	0.2	1	2	10	nil	nil
10025.0N	14	76	8	0.2	1	2	10	nil	nil
10050.0N	14	68	10	0.4	2	2	10	nil	nil
10075.0N	14	52	6	0.2	1	1	10	nil	nil
10100.0N	28	86	8	0.4	2	1	10	nil	nil
10125.0N	22	92	10	0.4	1	2	10	nil	nil
10150.0N	18	78	10	0.4	4	2	10	nil	nil
10175.0N	26	140	14	0.4	2	2	10	nil	nil
10200.0N	24	130	18	0.4	4	2	10	nil	nil
10225.0N	22	120	14	0.4	1	2	10	nil	nil
10250.0N	28	130	20	0.6	1	2	10	nil	nil
10275.0N	22	94	16	0.4	1	2	10	nil	nil
10300.0N	20	92	14	0.4	4	2	10	nil	nil
10325.0N	20	94	8	0.2	2	2	10	nil	nil
10350.0N	24	92	12	0.4	1	2	10	nil	nil
10375.0N	20	100	14	0.4	4	1	10	nil	nil
10400.0N	20	100	14	0.4	1	2	10	nil	nil
10425.0N	20	96	10	0.4	8	2	10	nil	nil
10450.0N	20	82	16	0.4	8	2	10	nil	nil
10475.0N	22	100	14	0.4	4	2	10	nil	nil
10500.0N	18	72	12	0.2	6	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9900.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	18	56	10	0.2	1	1	10	nil	nil
9875.0N	18	66	14	0.2	1	1	10	nil	nil
9900.0N	16	50	12	0.2	1	1	10	nil	nil
9925.0N	20	60	12	0.2	1	1	10	nil	nil
9950.0N	12	42	8	0.2	1	1	10	nil	nil
9975.0N	10	40	8	0.2	1	1	10	nil	nil
10000.0N	12	44	10	0.2	1	1	10	nil	nil
10025.0N	18	70	10	0.2	1	1	10	nil	nil
10050.0N	16	60	6	0.2	1	1	10	nil	nil
10075.0N	16	100	8	0.2	2	1	10	nil	nil
10100.0N	16	120	10	0.2	4	1	10	nil	nil
10125.0N	26	110	14	0.2	1	1	10	nil	nil
10150.0N	26	160	12	0.4	2	1	10	nil	nil
10175.0N	28	140	26	0.2	2	2	10	nil	nil
10200.0N	32	100	12	0.4	1	2	10	nil	nil
10225.0N	24	96	10	0.2	1	1	10	nil	nil
10250.0N	24	120	16	0.2	1	1	10	nil	nil
10275.0N	28	110	20	0.2	1	1	10	nil	nil
10300.0N	32	110	30	0.2	1	1	10	nil	nil
10325.0N	26	100	16	0.2	1	1	10	nil	nil
10350.0N	28	100	16	0.2	1	1	350	nil	nil
10375.0N	26	140	12	0.2	1	1	10	nil	nil
10400.0N	24	100	12	0.2	1	1	10	nil	nil
10425.0N	22	100	18	0.2	1	1	10	nil	nil
10450.0N	34	90	14	0.2	1	1	10	nil	nil
10475.0N	18	66	12	0.2	1	1	10	nil	nil
10500.0N	24	62	12	0.2	1	1	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 9950.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	20	84	12	0.2	1	1	10	nil	nil
9875.0N	18	62	8	0.2	1	1	10	nil	nil
9900.0N	18	76	10	0.2	1	1	10	nil	nil
9925.0N	16	66	10	0.2	1	1	10	nil	nil
9950.0N	16	86	8	0.2	1	1	10	nil	nil
9975.0N	14	80	8	0.2	1	1	10	nil	nil
10000.0N	22	110	10	0.2	1	1	10	nil	nil
10025.0N	16	82	8	0.2	1	1	10	nil	nil
10050.0N	16	82	8	0.2	1	1	10	nil	nil
10075.0N	18	120	12	0.2	1	1	10	nil	nil
10100.0N	28	290	8	0.2	1	1	10	nil	nil
10125.0N	24	100	10	0.2	1	1	10	nil	nil
10150.0N	18	120	12	0.2	1	1	10	nil	nil
10175.0N	34	150	14	0.4	1	1	10	nil	nil
10200.0N	50	170	12	0.2	2	2	10	nil	nil
10225.0N	28	140	16	0.2	1	2	10	nil	nil
10250.0N	30	180	14	0.2	1	1	10	nil	nil
10275.0N	34	240	6	0.2	1	1	10	nil	nil
10300.0N	30	94	18	0.2	1	1	10	nil	nil
10325.0N	30	80	20	0.2	1	1	10	nil	nil
10350.0N	32	100	14	0.4	1	1	30	nil	nil
10375.0N	18	72	12	0.2	1	1	10	nil	nil
10400.0N	22	94	12	0.2	1	1	10	nil	nil
10425.0N	18	72	10	0.2	1	1	10	nil	nil
10450.0N	18	76	12	0.2	1	1	10	nil	nil
10475.0N	18	78	12	0.2	1	1	10	nil	nil
10500.0N	20	70	8	0.2	1	1	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10000.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	20	110	14	0.2	1	1	10	nil	nil
9875.0N	16	72	12	0.2	1	1	10	nil	nil
9900.0N	20	84	10	0.2	1	1	10	nil	nil
9925.0N	26	140	14	0.2	1	1	10	nil	nil
9950.0N	22	110	12	0.2	1	1	10	nil	nil
9975.0N	26	110	12	0.2	1	1	10	nil	nil
10000.0N	14	82	8	0.2	1	1	10	nil	nil
10025.0N	14	68	6	0.2	1	1	10	nil	nil
10050.0N	16	88	12	0.2	1	1	10	nil	nil
10075.0N	20	100	10	0.2	1	1	10	nil	nil
10100.0N	24	110	12	0.2	1	1	10	nil	nil
10125.0N	26	160	16	0.2	1	1	10	nil	nil
10150.0N	26	120	14	0.2	1	1	10	nil	nil
10175.0N	26	120	4	0.2	1	1	10	nil	nil
10200.0N	48	220	12	0.2	1	1	10	nil	nil
10225.0N	30	200	12	0.2	1	1	10	nil	nil
10250.0N	26	88	8	0.2	1	1	10	nil	nil
10275.0N	20	74	16	0.2	4	1	10	nil	nil
10300.0N	22	74	10	0.2	1	1	10	nil	nil
10325.0N	42	86	8	0.2	1	1	40	nil	nil
10350.0N	32	90	10	0.2	1	1	20	nil	nil
10375.0N	30	150	6	0.4	1	1	70	nil	nil
10400.0N	18	60	8	0.2	1	1	10	nil	nil
10425.0N	16	82	10	0.2	1	1	10	nil	nil
10450.0N	18	84	10	0.2	1	1	10	nil	nil
10475.0N	18	74	10	0.2	1	1	10	nil	nil
10500.0N	16	74	8	0.2	1	1	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10050.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	26	140	20	0.2	1	2	10	nil	nil
9875.0N	12	96	10	0.2	1	1	10	nil	nil
9900.0N	14	72	8	0.2	1	1	10	nil	nil
9925.0N	14	90	6	0.2	1	1	10	nil	nil
9950.0N	14	110	10	0.2	1	1	10	nil	nil
9975.0N	18	60	8	0.2	1	1	10	nil	nil
10000.0N	12	88	6	0.2	1	1	10	nil	nil
10025.0N	10	86	4	0.2	1	1	10	nil	nil
10050.0N	18	54	6	0.2	1	2	10	nil	nil
10075.0N	14	80	6	0.2	1	2	10	nil	nil
10100.0N	56	130	10	0.2	28	6	10	nil	nil
10125.0N	38	380	10	0.2	8	2	10	nil	nil
10150.0N	32	230	8	0.2	4	2	40	nil	nil
10175.0N	20	210	6	0.4	1	2	10	nil	nil
10200.0N	24	120	22	0.4	1	2	10	nil	nil
10225.0N	32	150	30	0.2	2	2	10	nil	nil
10250.0N	18	82	6	0.2	1	2	10	nil	nil
10275.0N	38	90	8	0.2	2	4	10	nil	nil
10300.0N	24	80	12	0.2	1	2	10	nil	nil
10325.0N	24	100	12	0.2	1	2	10	nil	nil
10350.0N	12	96	10	0.2	1	2	10	nil	nil
10375.0N	18	98	10	0.2	1	1	10	nil	nil
10400.0N	16	76	10	0.2	1	2	10	nil	nil
10425.0N	12	70	8	0.2	1	2	10	nil	nil
10450.0N	12	70	8	0.2	1	2	10	nil	nil
10475.0N	14	62	8	0.2	1	2	10	nil	nil
10500.0N	12	60	6	0.2	1	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10100.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	12	100	10	0.2	1	2	10	nil	nil
9875.0N	12	100	8	0.2	1	2	10	nil	nil
9900.0N	26	140	16	0.2	1	2	10	nil	nil
9925.0N	14	92	6	0.2	1	2	10	nil	nil
9950.0N	16	120	10	0.2	1	2	10	nil	nil
9975.0N	12	94	4	0.2	1	1	10	nil	nil
10000.0N	16	82	6	0.2	1	2	10	nil	nil
10025.0N	16	72	8	0.2	1	2	10	nil	nil
10050.0N	72	72	16	2.6	20	14	330	nil	nil
10075.0N	20	74	8	0.4	10	2	10	nil	nil
10100.0N	30	100	10	0.2	2	4	10	nil	nil
10125.0N	20	100	10	0.2	1	2	10	nil	nil
10150.0N	28	140	8	0.2	1	4	10	nil	nil
10175.0N	26	180	10	0.2	6	2	10	nil	nil
10200.0N	26	140	20	0.2	6	4	10	nil	nil
10225.0N	28	130	20	0.2	1	2	10	nil	nil
10250.0N	24	110	12	0.2	2	4	10	nil	nil
10275.0N	30	88	8	0.2	1	4	10	nil	nil
10300.0N	18	100	16	0.2	1	2	10	nil	nil
10325.0N	22	96	8	0.2	1	2	10	nil	nil
10350.0N	24	140	10	0.2	1	2	10	nil	nil
10375.0N	28	76	8	0.2	1	2	10	nil	nil
10400.0N	36	62	14	0.2	4	12	10	nil	nil
10425.0N	28	150	10	0.2	1	4	10	nil	nil
10450.0N	14	90	8	0.2	2	2	10	nil	nil
10475.0N	12	58	10	0.2	1	2	10	nil	nil
10500.0N	20	70	10	0.2	1	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10150.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	22	98	10	0.2	1	2	10	nil	nil
9875.0N	16	120	14	0.2	4	2	10	nil	nil
9900.0N	24	94	16	0.2	1	1	10	nil	nil
9925.0N	14	100	10	0.2	1	2	10	nil	nil
9950.0N	14	130	10	0.2	2	1	10	nil	nil
9975.0N	12	88	10	0.2	1	2	10	nil	nil
10000.0N	12	110	8	0.2	2	1	10	nil	nil
10025.0N	16	140	8	0.2	1	1	10	nil	nil
10050.0N	24	76	8	0.2	12	1	10	nil	nil
10075.0N	22	140	14	0.2	4	1	10	nil	nil
10100.0N	18	100	14	0.2	10	1	10	nil	nil
10125.0N	38	210	16	0.2	16	1	10	nil	nil
10150.0N	14	140	8	0.2	2	1	10	nil	nil
10175.0N	36	210	12	0.4	4	2	10	nil	nil
10200.0N	24	120	10	0.2	2	1	10	nil	nil
10225.0N	18	110	12	0.2	1	4	10	nil	nil
10250.0N	36	130	24	0.2	1	2	10	nil	nil
10275.0N	18	96	14	0.2	1	2	10	nil	nil
10300.0N	24	86	12	0.2	8	2	10	nil	nil
10325.0N	18	120	10	0.2	6	2	10	nil	nil
10350.0N	16	100	14	0.2	1	2	10	nil	nil
10375.0N	16	82	12	0.2	1	2	10	nil	nil
10400.0N	24	58	8	0.2	4	2	10	nil	nil
10425.0N	18	60	10	0.2	2	2	10	nil	nil
10450.0N	16	66	8	0.2	4	2	10	nil	nil
10475.0N	16	78	8	0.2	1	2	10	nil	nil
10500.0N	18	48	8	0.2	10	1	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10200.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	14	68	4	0.2	4	2	10	nil	nil
9875.0N	14	100	4	0.2	8	2	10	nil	nil
9900.0N	14	100	24	0.2	8	2	10	nil	nil
9925.0N	14	120	6	0.2	1	2	10	nil	nil
9950.0N	130	140	10	2.0	18	4	300	nil	nil
9975.0N	300	110	26	3.2	140	12	530	nil	nil
10000.0N	26	140	12	0.2	8	2	10	nil	nil
10025.0N	22	94	12	0.2	6	2	10	nil	nil
10050.0N	22	96	10	0.2	1	4	10	nil	nil
10075.0N	18	100	10	0.2	1	2	10	nil	nil
10100.0N	16	100	8	0.2	1	2	10	nil	nil
10125.0N	20	82	10	0.2	1	2	10	nil	nil
10150.0N	36	170	30	0.2	6	2	10	nil	nil
10175.0N	34	240	14	0.2	6	4	10	nil	nil
10200.0N	54	300	10	0.2	24	4	10	nil	nil
10225.0N	30	140	14	0.2	12	4	10	nil	nil
10250.0N	22	74	12	0.2	8	2	10	nil	nil
10275.0N	66	76	10	0.2	8	2	10	nil	nil
10300.0N	100	72	8	0.2	2	2	10	nil	nil
10325.0N	22	120	10	0.2	1	2	10	nil	nil
10350.0N	22	120	10	0.2	4	2	10	nil	nil
10375.0N	14	94	8	0.2	1	2	10	nil	nil
10400.0N	16	84	4	0.2	2	2	10	nil	nil
10425.0N	16	88	10	0.2	1	2	10	nil	nil
10450.0N	14	68	10	0.2	1	2	10	nil	nil
10475.0N	18	66	12	0.2	2	2	10	nil	nil
10500.0N	18	78	12	0.2	6	2	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10250.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	14	100	12	0.2	1	2	10	nil	nil
9875.0N	14	100	8	0.2	8	2	10	nil	nil
9900.0N	14	100	8	0.2	2	2	10	nil	nil
9925.0N	18	120	12	0.2	8	4	10	nil	nil
9950.0N	130	180	16	1.6	16	4	100	nil	nil
9975.0N	860	200	36	5.2	100	24	320	nil	nil
10000.0N	30	130	16	0.2	10	4	20	nil	nil
10025.0N	20	110	12	0.2	6	4	10	nil	nil
10050.0N	20	96	10	0.2	8	2	10	nil	nil
10075.0N	26	100	14	0.2	4	4	10	nil	nil
10100.0N	34	110	16	0.2	1	2	10	nil	nil
10125.0N	22	100	14	0.2	1	2	10	nil	nil
10150.0N	16	78	10	0.2	2	1	10	nil	nil
10175.0N	22	82	14	0.2	1	2	10	nil	nil
10200.0N	20	96	12	0.2	4	2	10	nil	nil
10225.0N	26	86	14	0.2	1	2	10	nil	nil
10250.0N	22	110	14	0.2	4	2	10	nil	nil
10275.0N	16	110	30	0.2	1	2	10	nil	nil
10300.0N	26	140	20	0.2	1	2	10	nil	nil
10325.0N	14	100	16	0.2	1	2	10	nil	nil
10350.0N	14	82	12	0.2	1	2	10	nil	nil
10375.0N	16	92	12	0.2	1	1	10	nil	nil
10400.0N	16	100	12	0.2	4	1	10	nil	nil
10425.0N	14	76	12	0.2	1	1	10	nil	nil
10450.0N	14	72	10	0.2	4	1	10	nil	nil
10475.0N	14	90	10	0.2	1	1	10	nil	nil
10500.0N	14	92	10	0.2	1	1	10	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10300.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	14	100	10	0.2	8	1	10	nil	nil
9875.0N	10	86	8	0.2	2	1	10	nil	nil
9900.0N	14	96	12	0.2	1	1	10	nil	nil
9925.0N	16	110	8	0.4	1	2	10	nil	nil
9950.0N	14	120	8	0.2	1	2	10	nil	nil
9975.0N	26	120	12	0.2	4	2	10	nil	nil
10000.0N	18	110	12	0.2	6	2	10	nil	nil
10025.0N	24	130	10	0.2	10	2	10	nil	nil
10050.0N	24	100	10	0.4	2	1	10	nil	nil
10075.0N	18	80	12	0.2	1	1	10	nil	nil
10100.0N	38	80	8	0.4	2	1	10	nil	nil
10125.0N	26	86	14	0.4	2	2	10	nil	nil
10150.0N	24	110	12	0.2	6	2	10	nil	nil
10175.0N	26	130	12	0.2	10	2	10	nil	nil
10200.0N	14	100	10	0.2	1	2	10	nil	nil
10225.0N	16	88	10	0.2	1	1	10	nil	nil
10250.0N	24	96	12	0.2	1	2	10	nil	nil
10275.0N	14	110	14	0.2	4	2	10	nil	nil
10300.0N	30	280	14	0.2	8	2	10	nil	nil
10325.0N	16	100	10	0.2	1	2	10	nil	nil
10350.0N	14	90	10	0.2	1	2	10	nil	nil
10375.0N	12	84	8	0.2	1	2	10	nil	nil
10400.0N	12	60	8	0.2	2	1	10	nil	nil
10425.0N	14	80	6	0.2	8	2	10	nil	nil
10450.0N	14	82	10	0.2	1	2	10	nil	nil
10475.0N	12	96	10	0.2	6	1	10	nil	nil
10500.0N	12	84	8	0.2	2	1	20	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10350.0E Azimuth: 0 Deg. Number of Stations: 27 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9850.0N	12	104	10	0.2	8	1	5	nil	nil
9875.0N	14	126	14	0.2	6	1	5	nil	nil
9900.0N	20	98	18	0.6	6	1	5	nil	nil
9925.0N	14	86	10	0.4	2	1	5	nil	nil
9950.0N	14	60	6	0.4	10	1	5	nil	nil
9975.0N	20	120	8	0.4	6	1	5	nil	nil
10000.0N	20	108	10	0.4	4	1	5	nil	nil
10025.0N	26	90	8	0.4	2	1	5	nil	nil
10050.0N	28	98	10	0.4	12	1	5	nil	nil
10075.0N	30	86	8	0.6	4	1	5	nil	nil
10100.0N	38	92	8	0.2	4	1	5	nil	nil
10125.0N	24	76	10	0.4	6	1	5	nil	nil
10150.0N	22	80	10	0.4	2	1	5	nil	nil
10175.0N	22	84	12	0.2	2	1	5	nil	nil
10200.0N	28	80	10	0.4	2	2	5	nil	nil
10225.0N	18	72	10	0.2	2	1	5	nil	nil
10250.0N	18	80	12	0.2	4	1	5	nil	nil
10275.0N	22	78	12	0.4	2	1	5	nil	nil
10300.0N	20	66	12	0.4	4	2	5	nil	nil
10325.0N	20	70	10	0.6	2	2	5	nil	nil
10350.0N	20	78	10	0.4	2	1	5	nil	nil
10375.0N	20	70	10	0.4	6	1	5	nil	nil
10400.0N	18	70	8	0.6	2	1	5	nil	nil
10425.0N	18	76	8	0.6	4	1	5	nil	nil
10450.0N	20	78	8	0.6	2	1	5	nil	nil
10475.0N	18	78	6	0.4	2	1	5	nil	nil
10500.0N	18	58	10	0.2	4	1	5	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10400.0E Azimuth: 0 Deg. Number of Stations: 25 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9900.0N	18	154	12	0.2	4	1	5	nil	nil
9925.0N	18	138	12	0.2	8	1	5	nil	nil
9950.0N	14	86	8	0.4	4	1	5	nil	nil
9975.0N	28	92	10	0.2	6	1	5	nil	nil
10000.0N	22	102	10	0.2	6	1	5	nil	nil
10025.0N	30	76	8	0.4	12	1	5	nil	nil
10050.0N	24	100	8	0.4	10	1	5	nil	nil
10075.0N	38	98	14	0.2	8	1	5	nil	nil
10100.0N	24	86	12	0.6	12	1	5	nil	nil
10125.0N	20	90	8	0.4	6	1	5	nil	nil
10150.0N	26	64	8	0.6	10	1	5	nil	nil
10175.0N	24	94	12	0.2	6	1	5	nil	nil
10200.0N	18	66	8	0.4	10	1	5	nil	nil
10225.0N	18	88	10	0.4	6	1	5	nil	nil
10250.0N	22	94	12	0.4	4	1	5	nil	nil
10275.0N	18	76	10	0.4	4	1	380	nil	nil
10300.0N	26	80	20	0.2	2	1	5	nil	nil
10325.0N	20	92	8	0.6	8	2	5	nil	nil
10350.0N	20	92	10	0.6	2	1	5	nil	nil
10375.0N	18	100	8	0.6	2	1	5	nil	nil
10400.0N	18	76	10	0.2	6	1	5	nil	nil
10425.0N	16	90	42	0.4	2	1	5	nil	nil
10450.0N	18	140	12	0.4	8	1	5	nil	nil
10475.0N	18	110	8	0.4	2	1	5	nil	nil
10500.0N	18	90	8	0.4	4	1	5	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10450.0E Azimuth: 0 Deg. Number of Stations: 25 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9900.0N	16	104	18	0.4	6	1	5	nil	nil
9925.0N	16	112	8	0.2	10	1	5	nil	nil
9950.0N	16	104	8	0.4	4	1	5	nil	nil
9975.0N	18	126	10	0.4	6	1	5	nil	nil
10000.0N	16	118	4	0.4	2	2	5	nil	nil
10025.0N	24	130	10	0.4	6	2	5	nil	nil
10050.0N	20	100	10	0.6	8	1	5	nil	nil
10075.0N	18	70	8	0.2	2	1	20	nil	nil
10100.0N	14	86	10	0.2	10	1	5	nil	nil
10125.0N	20	100	14	0.2	6	1	5	nil	nil
10150.0N	24	130	10	0.2	10	1	5	nil	nil
10175.0N	20	72	8	0.4	6	1	5	nil	nil
10200.0N	26	80	12	0.4	6	1	5	nil	nil
10225.0N	18	72	8	0.4	4	1	5	nil	nil
10250.0N	18	96	12	0.2	6	1	5	nil	nil
10275.0N	18	78	12	0.4	6	1	5	nil	nil
10300.0N	18	72	10	0.2	2	1	5	nil	nil
10325.0N	18	100	12	0.2	2	1	5	nil	nil
10350.0N	18	102	18	0.4	22	1	5	nil	nil
10375.0N	20	112	14	0.2	8	1	5	nil	nil
10400.0N	20	96	12	0.2	2	1	5	nil	nil
10425.0N	18	106	10	0.2	2	1	5	nil	nil
10450.0N	20	92	8	0.4	8	1	20	nil	nil
10475.0N	18	98	8	0.2	2	1	5	nil	nil
10500.0N	24	72	8	0.2	2	1	5	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10500.0E Azimuth: 0 Deg. Number of Stations: 22 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9925.0N	16	128	4	0.2	2	1	5	nil	nil
9950.0N	16	90	6	0.2	2	1	5	nil	nil
9975.0N	16	104	6	0.2	2	1	5	nil	nil
10000.0N	16	118	8	0.2	10	1	5	nil	nil
10025.0N	14	102	4	0.2	4	1	5	nil	nil
10050.0N	12	70	2	0.2	4	1	5	nil	nil
10075.0N	25	118	12	0.2	10	1	5	nil	nil
10100.0N	20	92	12	0.2	2	1	5	nil	nil
10125.0N	18	90	8	0.2	2	1	5	nil	nil
10150.0N	20	100	12	0.4	8	1	5	nil	nil
10175.0N	24	90	10	0.4	10	2	5	nil	nil
10200.0N	32	72	8	0.4	6	2	5	nil	nil
10225.0N	20	100	14	0.2	2	1	5	nil	nil
10250.0N	24	110	12	0.2	2	1	5	nil	nil
10275.0N	26	120	18	0.6	10	1	20	nil	nil
10325.0N	28	104	8	0.4	6	1	5	nil	nil
10350.0N	30	142	12	0.4	10	1	5	nil	nil
10375.0N	22	110	10	0.2	16	1	5	nil	nil
10400.0N	18	86	10	0.2	8	1	5	nil	nil
10425.0N	26	116	12	0.2	10	1	5	nil	nil
10450.0N	22	92	10	0.4	8	1	5	nil	nil
10475.0N	36	138	16	0.4	14	1	20	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10550.0E Azimuth: 0 Deg. Number of Stations: 24 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9925.0N	12	110	6	0.4	4	1	5	nil	nil
9950.0N	26	166	4	0.4	8	1	5	nil	nil
9975.0N	14	56	8	0.2	2	1	5	nil	nil
10000.0N	16	96	8	0.2	4	1	5	nil	nil
10025.0N	12	114	6	0.4	10	1	5	nil	nil
10050.0N	18	122	12	0.4	16	1	10	nil	nil
10075.0N	22	124	18	0.4	6	1	5	nil	nil
10100.0N	20	92	12	0.4	6	1	5	nil	nil
10125.0N	16	88	10	0.4	8	1	10	nil	nil
10150.0N	14	76	8	0.6	6	1	5	nil	nil
10175.0N	20	90	426	0.4	6	1	5	nil	nil
10200.0N	40	112	14	0.4	20	1	5	nil	nil
10225.0N	132	116	10	0.4	14	1	30	nil	nil
10250.0N	370	104	12	1.0	38	8	240	nil	nil
10275.0N	274	90	12	0.8	36	5	120	nil	nil
10300.0N	14	80	8	0.2	12	1	5	nil	nil
10325.0N	52	190	32	0.4	22	1	5	nil	nil
10350.0N	36	110	26	0.4	14	1	5	nil	nil
10375.0N	34	100	44	0.2	14	1	5	nil	nil
10400.0N	24	66	18	0.2	12	1	5	nil	nil
10425.0N	24	92	8	0.2	10	1	5	nil	nil
10450.0N	20	90	16	0.4	14	1	5	nil	nil
10475.0N	24	108	14	0.4	8	1	5	nil	nil
10500.0N	14	72	10	0.2	10	1	5	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10600.0E Azimuth: 0 Deg. Number of Stations: 23 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9925.0N	16	68	6	0.4	6	1	5	nil	nil
9950.0N	18	90	6	0.4	8	1	5	nil	nil
9975.0N	14	76	4	0.2	8	1	5	nil	nil
10000.0N	16	82	4	0.4	10	1	5	nil	nil
10025.0N	14	96	4	0.2	8	1	5	nil	nil
10050.0N	12	98	6	0.2	8	1	5	nil	nil
10075.0N	12	78	4	0.2	8	1	5	nil	nil
10100.0N	18	102	10	0.2	10	1	5	nil	nil
10125.0N	22	98	16	0.4	12	1	5	nil	nil
10150.0N	28	92	16	0.4	10	1	5	nil	nil
10175.0N	14	58	10	0.2	16	1	5	nil	nil
10200.0N	30	82	12	0.2	10	1	5	nil	nil
10225.0N	102	148	4	0.6	14	1	5	nil	nil
10250.0N	30	98	10	0.4	14	1	5	nil	nil
10300.0N	48	122	10	0.2	6	1	5	nil	nil
10325.0N	134	76	6	0.4	10	1	5	nil	nil
10350.0N	26	80	18	0.4	8	1	5	nil	nil
10375.0N	24	78	12	0.6	6	1	5	nil	nil
10400.0N	18	68	12	0.2	6	1	5	nil	nil
10425.0N	24	92	14	0.4	8	1	5	nil	nil
10450.0N	20	70	8	0.2	4	1	5	nil	nil
10475.0N	20	92	12	0.4	6	1	5	nil	nil
10500.0N	16	66	12	0.2	2	1	5	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10700.0E Azimuth: 0 Deg. Number of Stations: 24 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9875.0N	18	72	12	0.2	2	1	5	nil	nil
9900.0N	14	100	6	0.2	12	1	5	nil	nil
9925.0N	24	132	6	0.2	24	1	5	nil	nil
9950.0N	8	80	4	0.2	8	1	5	nil	nil
9975.0N	10	92	8	0.4	10	1	5	nil	nil
10000.0N	20	72	6	0.4	8	1	5	nil	nil
10025.0N	8	112	8	0.2	10	1	5	nil	nil
10050.0N	8	76	6	0.2	4	1	5	nil	nil
10075.0N	10	74	6	0.2	8	1	5	nil	nil
10100.0N	16	112	4	0.2	18	1	5	nil	nil
10125.0N	18	104	6	0.2	14	1	5	nil	nil
10150.0N	14	76	4	0.2	2	1	5	nil	nil
10175.0N	218	182	16	0.6	34	2	5	nil	nil
10200.0N	50	310	18	0.4	34	2	5	nil	nil
10225.0N	108	288	18	0.6	68	3	50	nil	nil
10250.0N	82	134	6	0.2	18	3	5	nil	nil
10300.0N	78	130	16	0.4	58	1	5	nil	nil
10325.0N	126	98	22	0.8	446	2	90	nil	nil
10350.0N	42	120	20	0.4	40	1	5	nil	nil
10400.0N	36	160	18	0.6	26	2	5	nil	nil
10425.0N	36	188	8	0.4	14	3	5	nil	nil
10450.0N	66	202	22	0.2	14	1	5	nil	nil
10475.0N	50	174	24	0.2	14	1	5	nil	nil
10500.0N	28	124	16	0.2	14	1	5	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10750.0E Azimuth: 0 Deg. Number of Stations: 18 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
9950.0N	18	58	16	0.2	8	1	5	nil	nil
9975.0N	28	166	16	0.2	16	1	5	nil	nil
10000.0N	92	242	14	0.2	30	1	5	nil	nil
10025.0N	14	138	10	0.2	8	1	5	nil	nil
10050.0N	20	106	8	0.2	8	1	5	nil	nil
10075.0N	8	134	8	0.2	6	1	5	nil	nil
10100.0N	12	142	8	0.2	8	1	5	nil	nil
10125.0N	14	72	10	0.2	6	1	5	nil	nil
10150.0N	24	116	8	0.2	10	1	5	nil	nil
10175.0N	20	80	4	0.2	4	1	5	nil	nil
10200.0N	62	186	12	0.2	42	1	5	nil	nil
10225.0N	20	94	12	0.2	10	1	5	nil	nil
10300.0N	106	154	16	0.8	42	1	5	nil	nil
10325.0N	92	148	18	0.6	54	4	5	nil	nil
10375.0N	36	112	20	0.4	22	2	5	nil	nil
10400.0N	38	126	26	0.4	30	1	5	nil	nil
10425.0N	98	278	48	1.8	132	2	5	nil	nil
10500.0N	118	440	22	0.4	34	5	5	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10800.0E Azimuth: 0 Deg. Number of Stations: 18 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
10025.0N	12	46	12	0.2	4	1	100	nil	nil
10050.0N	22	70	12	0.2	16	1	5	nil	nil
10075.0N	14	76	6	0.2	12	1	5	nil	nil
10100.0N	10	78	6	0.2	10	1	5	nil	nil
10125.0N	18	82	6	0.2	18	1	5	nil	nil
10150.0N	14	84	8	0.2	8	1	5	nil	nil
10175.0N	26	266	14	0.2	20	1	5	nil	nil
10200.0N	44	280	12	0.2	26	1	5	nil	nil
10225.0N	36	102	8	0.2	14	1	5	nil	nil
10250.0N	44	122	8	0.2	18	1	5	nil	nil
10275.0N	52	114	16	0.2	30	1	5	nil	nil
10300.0N	86	164	18	0.4	30	1	5	nil	nil
10325.0N	116	176	22	0.6	34	2	5	nil	nil
10350.0N	64	226	18	0.8	38	1	5	nil	nil
10400.0N	32	78	28	0.2	24	3	5	nil	nil
10425.0N	96	196	34	0.6	120	3	5	nil	nil
10450.0N	114	182	44	1.2	194	1	50	nil	nil
10500.0N	70	122	26	0.6	26	1	50	nil	nil

GEOCHEMICAL SURVEY

Project Name : HEK Project Number: 176
 Grid Name : HEK

Date: 9/ 3/87 Operator: JK NTS: 082E01
 Baseline: 10000.0N Baseline Azimuth: 90 Degrees
 Number of Lines: 30 Data File: C176HEK.ZAT

Line: 10850.0E Azimuth: 0 Deg. Number of Stations: 8 Page 1 of 1

STATION	Cu PPM	Zn PPM	Pb PPM	Ag PPM	As PPM	Mo PPM	Au PPB	undef undef	undef undef
10125.0N	10	52	10	0.2	10	1	5	nil	nil
10150.0N	10	54	4	0.2	12	1	5	nil	nil
10175.0N	16	76	4	0.2	20	1	5	nil	nil
10200.0N	32	206	20	0.2	20	1	5	nil	nil
10250.0N	22	94	6	0.4	20	1	5	nil	nil
10375.0N	24	96	26	0.2	60	3	5	nil	nil
10425.0N	86	82	16	0.6	110	3	80	nil	nil
10450.0N	94	84	8	0.2	60	3	30	nil	nil

APPENDIX 3
STATEMENT OF COSTS

STATEMENT OF COSTS

PROJECT: Hek Property (176)

DATE:

TYPE OF REPORT: Geological & Geochemical

a) WAGES:

# of Days	: 38 mandays	
Rate per day	: \$112.00	
Dates from	: July 25 - August 17, 1987	
Total Wages	: 38 x \$112.00	\$4,256.00

b) FOOD & ACCOMMODATIONS

# of Days	: 38 mandays	
Rate per day	: \$48.00	
Dates from	: July 25 - August 17, 1987	
Total Costs	: 38 x \$48.00	\$1,824.00

c) TRANSPORTATION

# of Days	: 24 days	
Rate per day	: \$63.60	
Dates from	: July 25 - August 17, 1987	
Total Costs	: 24 x \$63.60	\$1,526.40

e) ANALYSIS \$7,043.55

f) COST OF PREPARATION OF REPORT

Author	\$ 330.00
Drafting	\$ 220.00
Typing	\$ 110.00

g) OTHER

Contract Linecutting & Soil Geochemistry

15 Mandays

\$540 per day

Cost of Materials

\$8,805.37

TOTAL COST:

\$24,115.32

=====

h) UNIT COSTS FOR GEOLOGY

of Days : 38

of Units : 38 mandays

Unit Costs : \$207.89/manday

Total Costs : 38 x \$207.89

\$7,900.00

i) UNIT COSTS FOR GEOCHEM

of Units : 810 Samples

Unit Costs : \$15.08/sample

Total Costs : 810 x \$15.08

\$12,215.32

j) UNIT COSTS FOR LINECUTTING

of Days : 7.5 days

of Units : 15 mandays

Unit Costs : \$266.67/manday

Total Costs : 15 x \$266.67

\$4,000.00

GRAND TOTAL

\$24,115.32

=====

DETAILS OF ANALYSES COSTS

PROJECT: Hek (176)

SOILS:

<u>ELEMENT</u>	<u>NO. OF DETERMINATIONS</u>	<u>COST PER DETERMINATION</u>	<u>COST</u>
Cu	753	1.60	\$1,204.80
Pb	753	0.60	\$ 451.80
Zn	753	0.60	\$ 451.80
Mo	753	0.60	\$ 451.80
As	753	0.60	\$ 451.80
Ag	752	0.60	\$ 451.80
Au	753	3.50	\$2,635.50

		TOTAL:	\$6,099.30
			=====

ROCKS:

Cu	33	2.00	\$ 66.00
Pb	33	1.00	\$ 33.00
Zn	33	1.00	\$ 33.00
Mo	33	1.00	\$ 33.00
As	33	3.75	\$ 123.75
Ag	57	5.75	\$ 327.75
Au	57	5.75	\$ 327.75

		TOTAL:	\$ 944.25
			=====
		GRAND TOTAL:	\$7,043.55
			=====

APPENDIX IV
STATEMENT OF QUALIFICATIONS

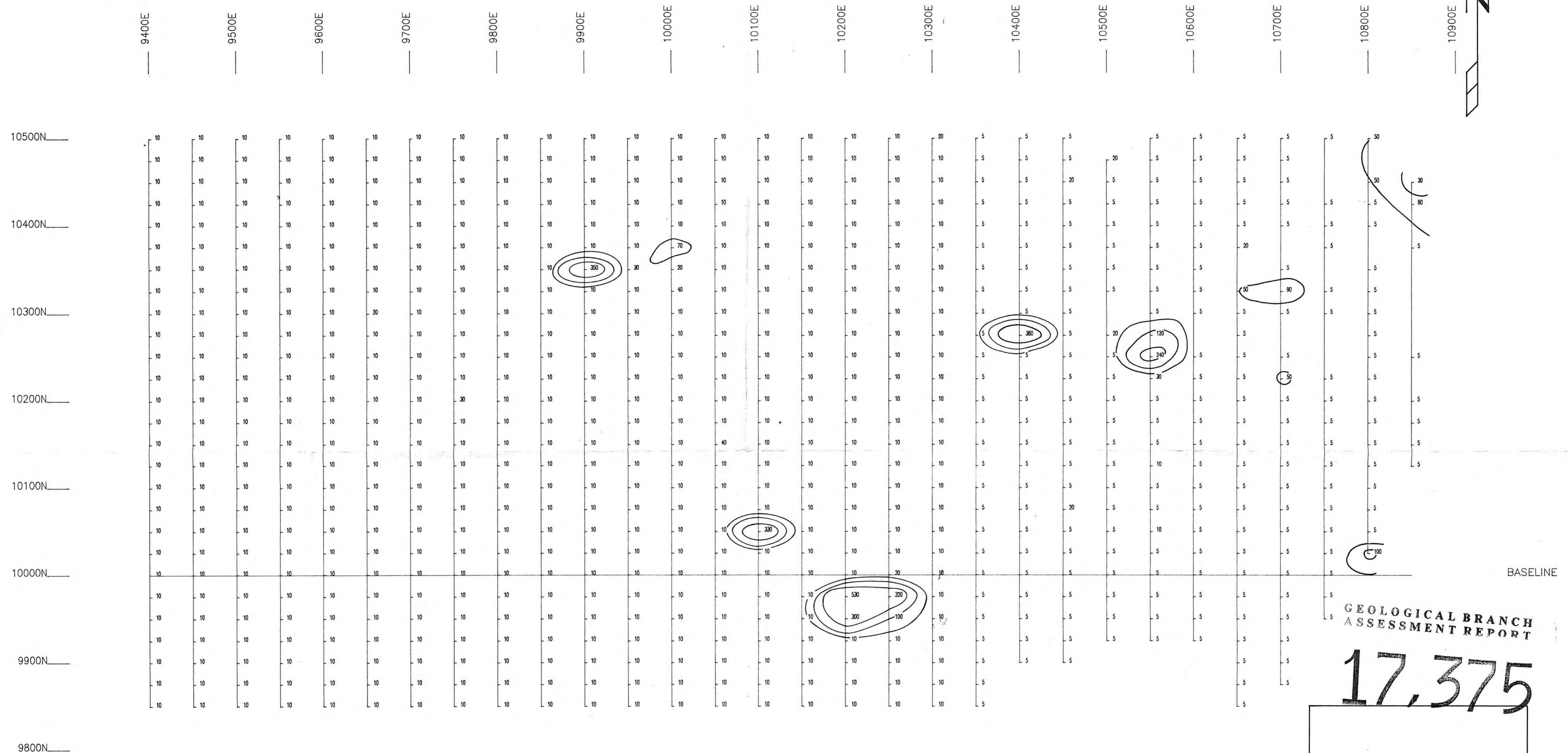
STATEMENT OF QUALIFICATIONS

I, D.Graham Gill of the city of Vancouver, Province of British Columbia, hereby certify that:

1. I am a geologist residing at #302 - 5890 Balsam Street, Vancouver, B.C.
2. I have graduated from the University of British Columbia in 1983 with a BSc in geology.
3. I have worked in mineral exploration since 1979.
4. I have been a temporary employee with Noranda Exploration Company, Limited since May, 1983 and a permanent employee since November, 1987.

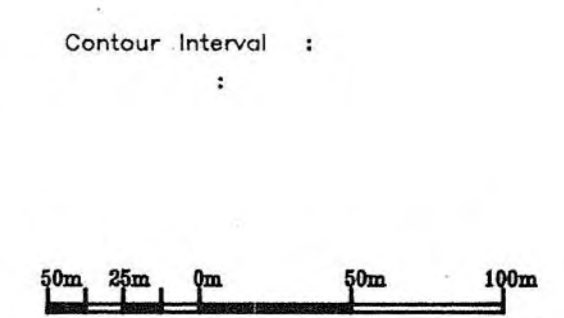


D. Graham Gill



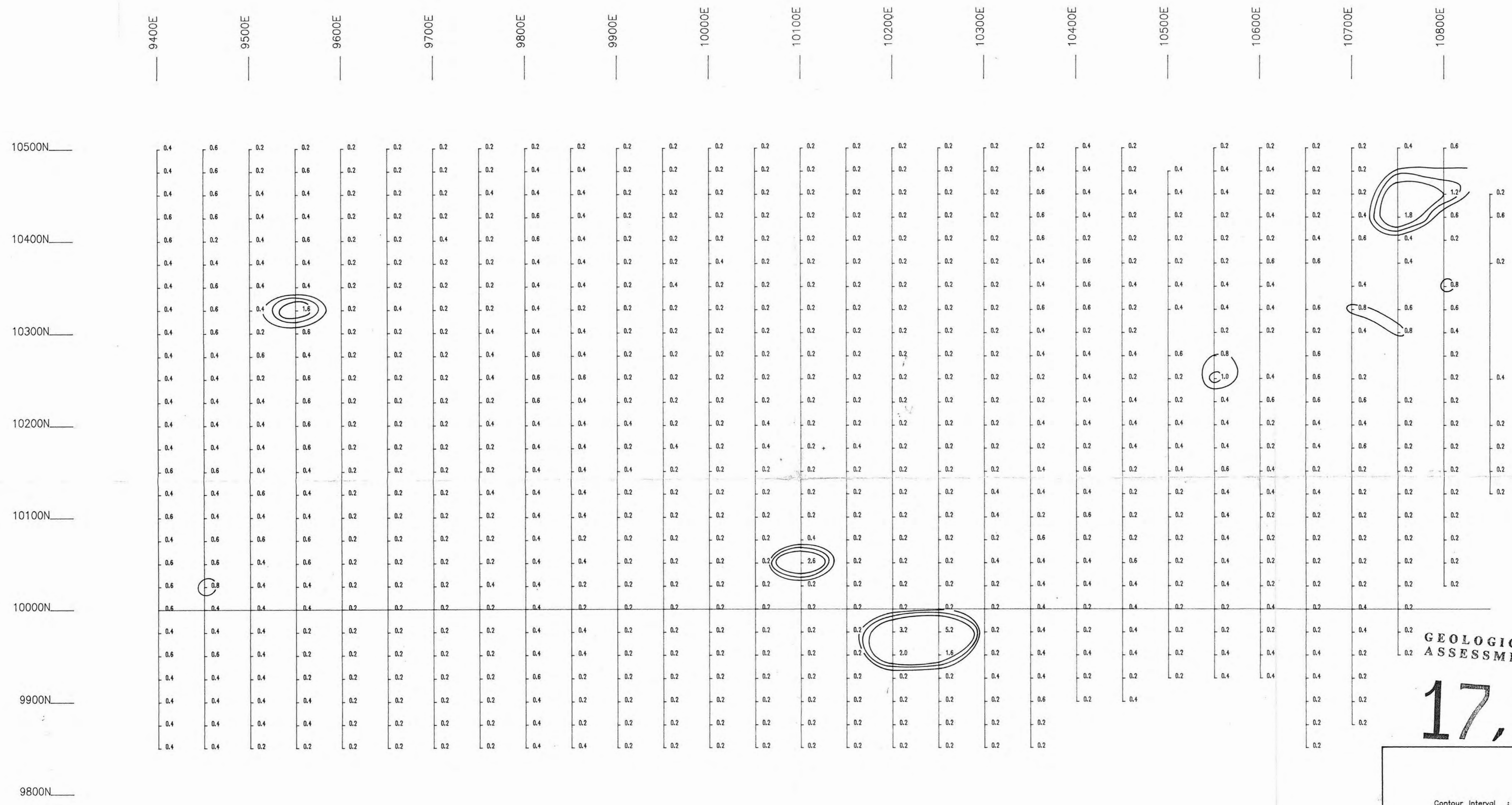
GEOLOGICAL BRANCH
ASSESSMENT REPORT

17.375



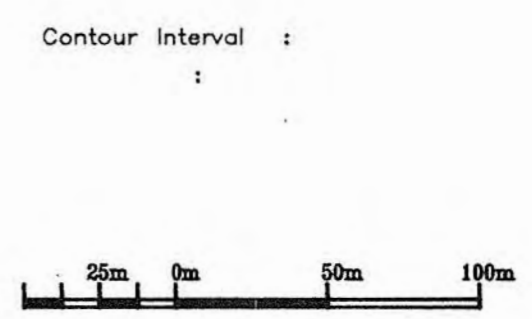
CONTOUR PARAMETERS (ppb)
 1st order - 50
 2nd order - 100
 3rd order - 200

HEK	
GEOCHEMICAL SURVEY	
PPB Au	
PROJECT: HEK PROJECT # : 176	
BASELINE AZIMUTH : 90 Deg.	
SCALE = 1: 2500	DATE : 9/ 3/87
SURVEY BY : JK	NTS : 082E01
FILE: C176HEK	
NORANDA EXPLORATION	



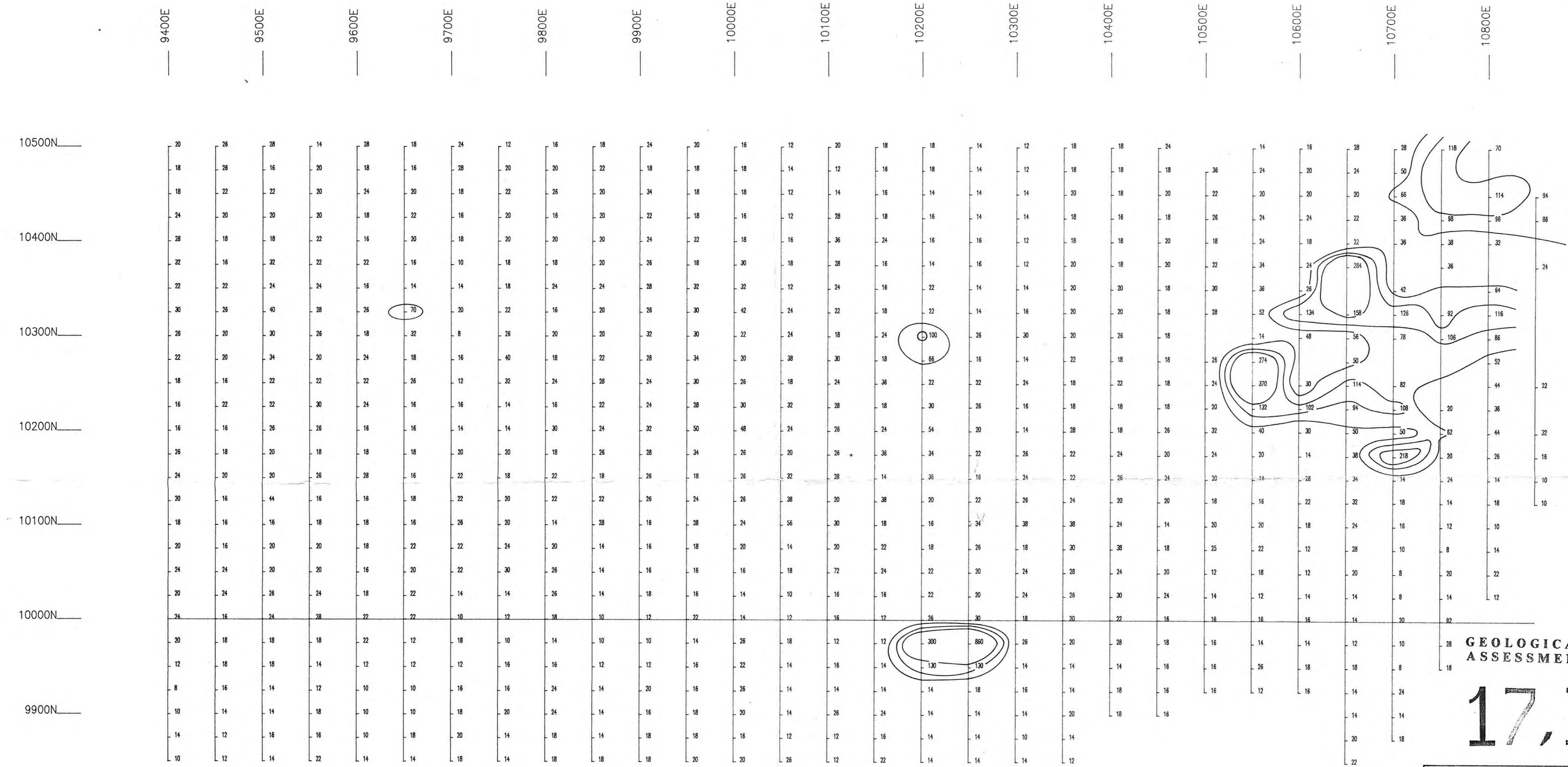
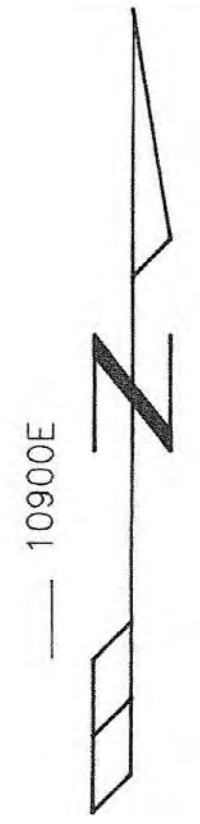
**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17,375



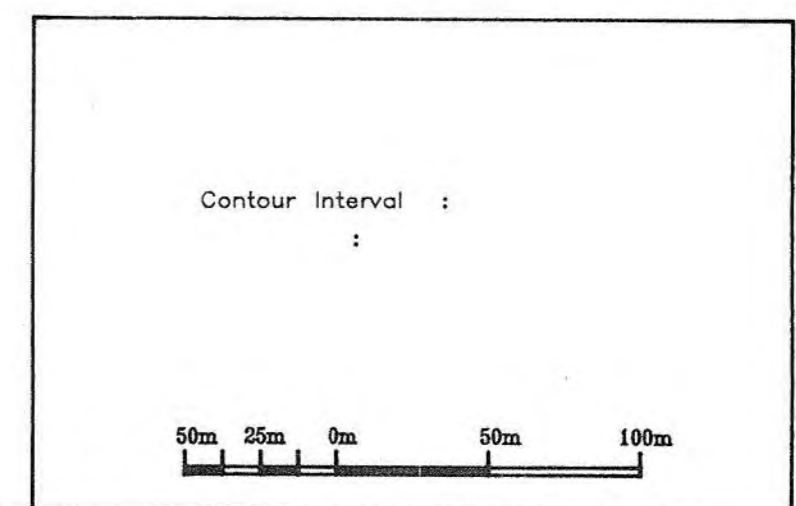
CONTOUR PARAMETERS (ppm)
 1st order - .8
 2nd order - 1.0
 3rd order - 1.2

HEK	
GEOCHEMICAL SURVEY	
PPM Ag	
PROJECT: HEK PROJECT # : 176	
BASELINE AZIMUTH : 90 Deg.	
SCALE = 1: 2500	DATE : 9/ 3/87
SURVEY BY : JK	NTS : 082E01
FILE: C176HEK	
NORANDA EXPLORATION	



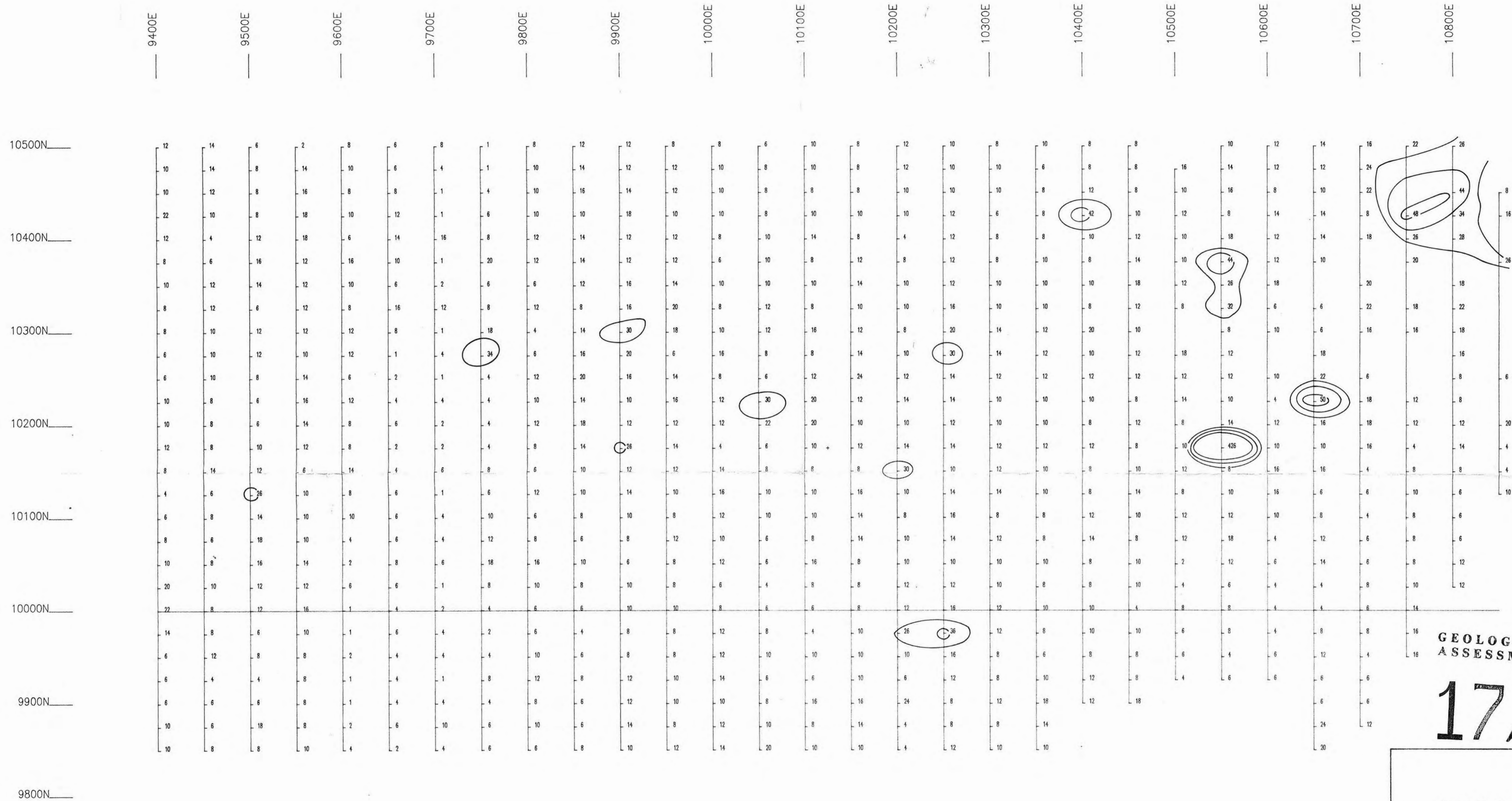
GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,375



CONTOUR PARAMETERS (ppm)
1st order - 60
2nd order - 100
3rd order - 150

HEK	
GEOCHEMICAL SURVEY	
PPM Cu	
PROJECT: HEK PROJECT # : 176	
BASELINE AZIMUTH : 90 Deg.	
SCALE = 1: 2500	DATE : 9/ 3/87
SURVEY BY : JK	NTS : 082E01
FILE: C176HEK	
NORANDA EXPLORATION	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,375

Contour Interval :



CONTOUR PARAMETERS (ppm)

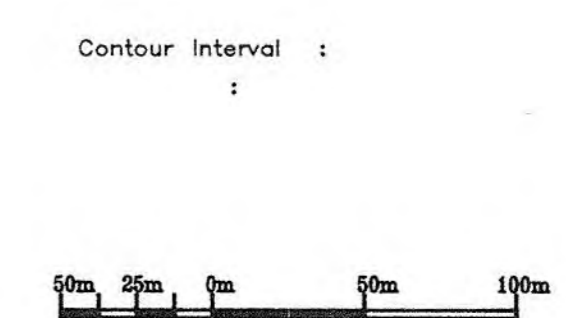
- 1st Order - 25
- 2nd Order - 35
- 3rd Order - 45

HEK	
GEOCHEMICAL SURVEY	
PPM Pb	
PROJECT: HEK PROJECT # : 176	
BASELINE AZIMUTH : 90 Deg.	
SCALE = 1: 2500	DATE : 9/ 3/87
SURVEY BY : JK	NTS : 082E01
FILE: C176HEK	
NORANDA EXPLORATION	



GEOLOGICAL BRANCH
ASSESSMENT REPORT

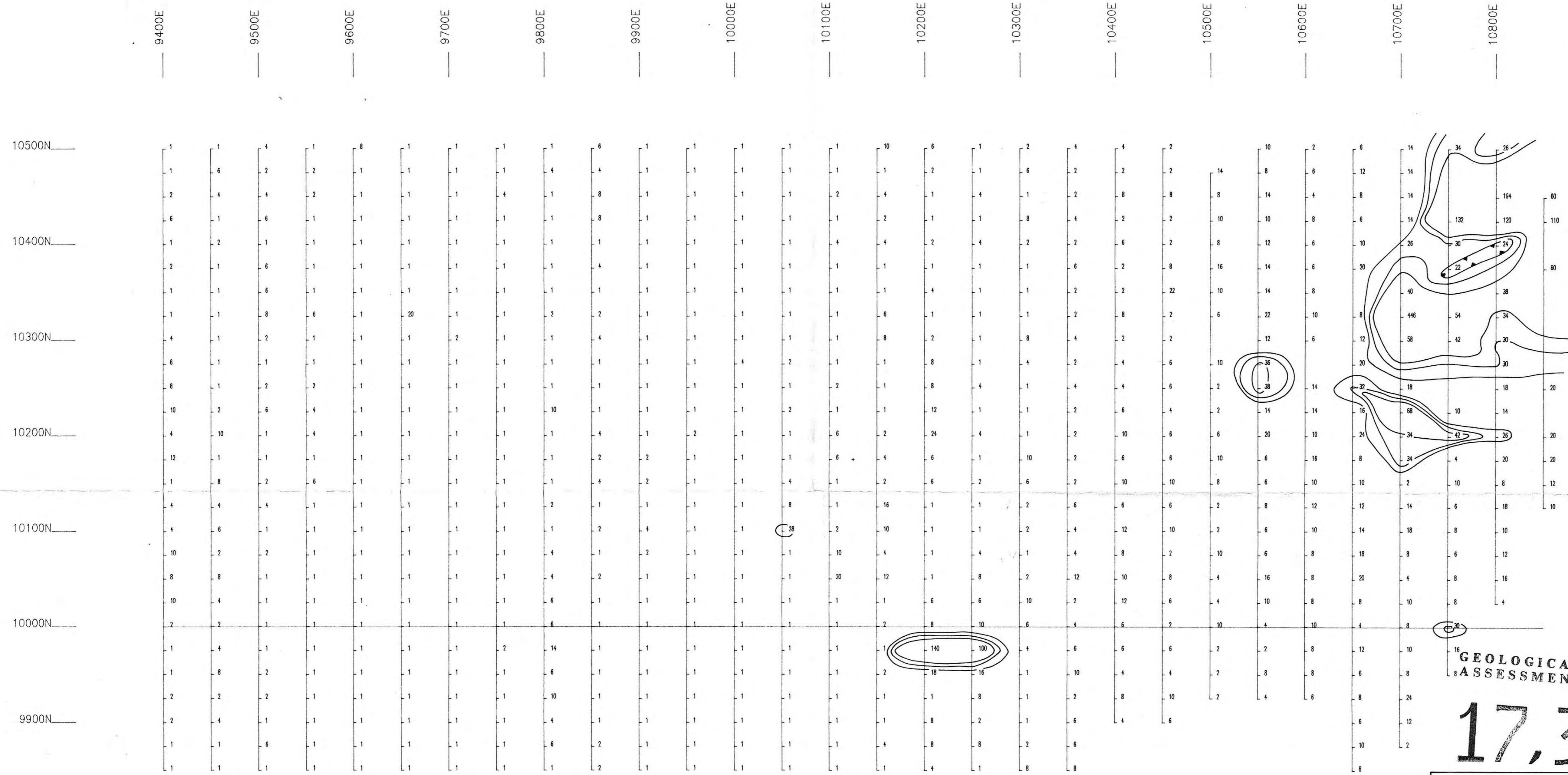
17,375



CONTOUR PARAMETERS (ppm)
1st order - 150
2nd order - 200
3rd order - 250

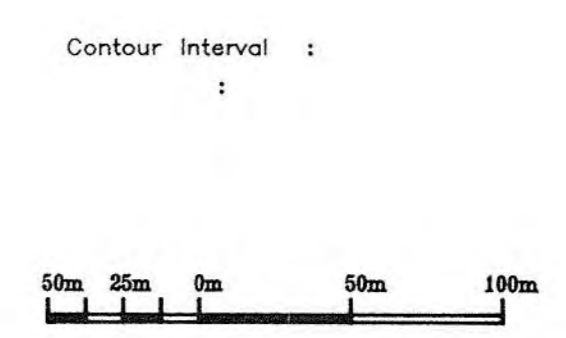
HEK	
GEOCHEMICAL SURVEY	
PPM Zn	
PROJECT: HEK PROJECT # : 176	
BASELINE AZIMUTH : 90 Deg.	
SCALE = 1: 2500	DATE : 9/ 3/87
SURVEY BY : JK	NTS : 082E01
FILE: C176HEK	
NORANDA EXPLORATION	

6



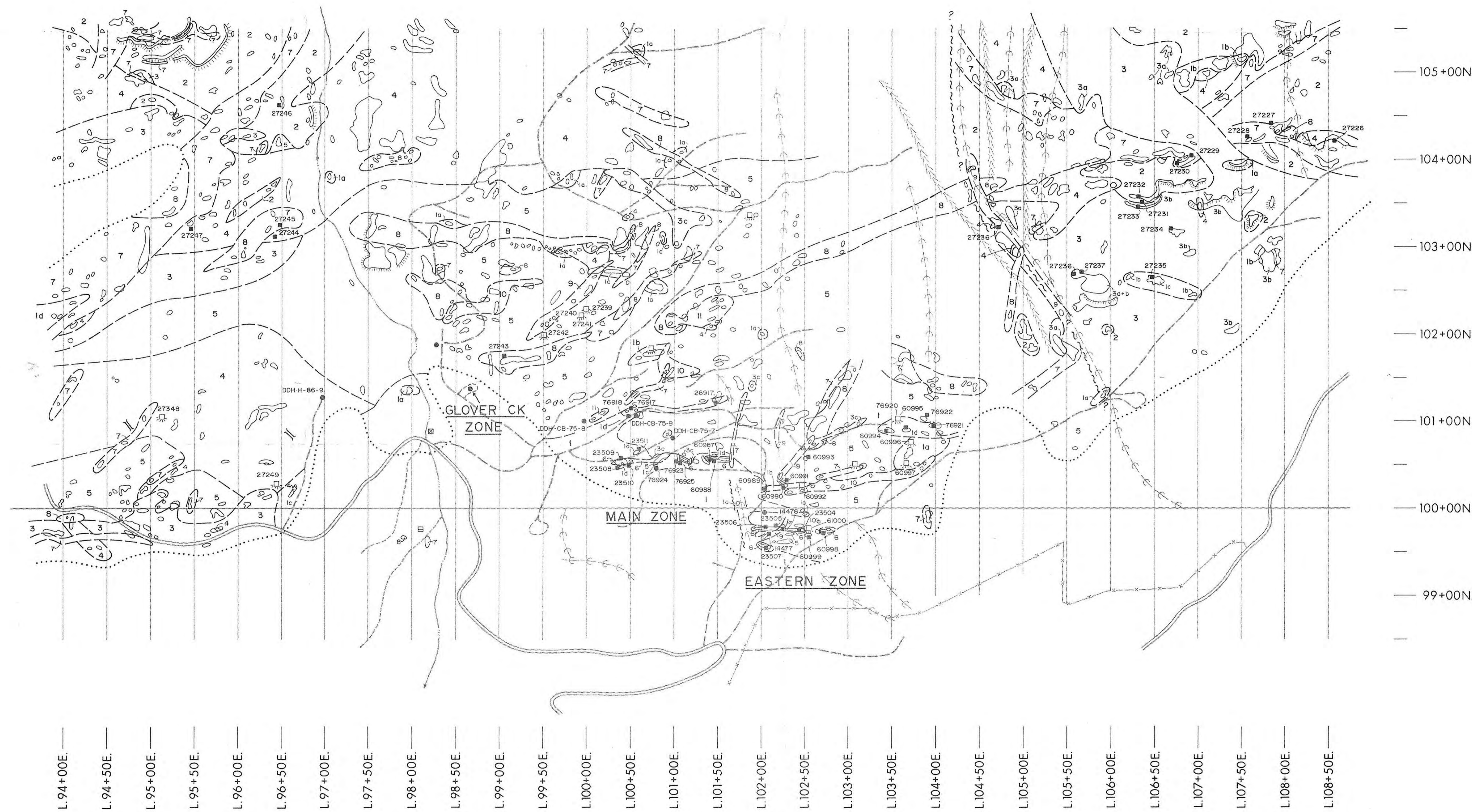
GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,375



CONTOUR PARAMETERS (ppm)
1st order - 25
2nd order - 30
3rd order - 35

HEK	
GEOCHEMICAL SURVEY	
PPM As	
PROJECT: HEK PROJECT # : 176	
BASELINE AZIMUTH : 90 Deg.	
SCALE = 1: 2500	DATE : 9/ 3/87
SURVEY BY : JK	NTS : 082E01
FILE: C176HEK	
NORANDA EXPLORATION	



LEGEND

DYKE SWARM (TERTIARY)

- 11 DIORITE Medium to coarse grained, grey to dark green with pyroxene phenocrysts (< 0.5 cm). Blocky fracturing. Rock is well weathered throughout.
- 10 FELDSPAR PORPHYRY Medium to coarse grained, mottled grey to white. Subhedral, phenocrysts comprise 60-70% of this dykes mineralogy.
- 9 ANDESITE Very fine grained, green andesitic dyke with no large phenocrysts of feldspar or mafic material exhibited as in the latite dykes (Unit 7). Weathers to a medium grey-green color with blocky fracturing.
- 8 TRACHYTE Very fine grained, buff to pink colored matrix with up to 10% potassium feldspar phenocrysts (1mm to 0.5cm). Weathers pinkish-grey to buff color.
- 7 LATITE Very fine grained, light grey-green matrix with 5-10% potassium feldspar phenocrysts ranging in size from 1mm to 0.5 cm. Weathers grey-green. May contain minor biotite. This dyke rock grades into rock type of Unit 8 above.
- 6 SULFIDE ZONE Massive to semi-massive pyrrhotite and pyrite with quartz, epidote, biotite and chlorite alteration. Fine to coarse grained sulphides.

CORYELL INTRUSIVES (TERTIARY)

- 5 SYENITE Fine to coarse grained, mottled pink to pinkish-grey with ragged brown to black biotite. Rounded, pinkish-grey weathered surface.
- 4 MONZONITE Fine to coarse grained, mottled grey to white with biotite mafics. Feldspar phenocrysts are mainly K-feldspar exhibiting perthite intergrowths where as the much less abundant, grey plagioclase phenocrysts do not.

NELSON INTRUSIVES (JURASSIC)

- 3 a) QUARTZ DIORITE Fine to medium grained, mottled green-grey, white diorite with crystalline pyroxene and feldspar plus 10-20% quartz.
- b) GRANODIORITE Medium grained, grey, biotite, hornblende rich granodiorite with blocky fracturing and a light grey mottled weathered appearance.
- c) GRANITE Fine to medium grained, mottled grey, white pinkish granite. Biotite is the chief mafic mineral.
- 2 DIORITE Fine to medium grained, mottled dark green to grey crystalline pyroxene + feldspar phenocrysts.

KNOB HILL GROUP (PALEOZOIC / TRIASSIC)

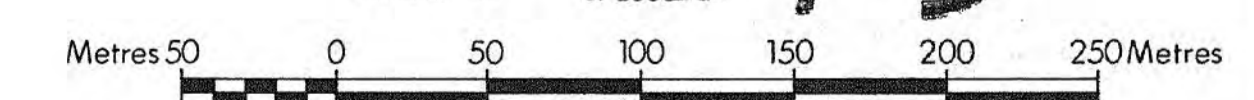
- 1 a) GREENSTONE / ANDESITE Fine grained, siliceous, green to light green, dense meta-andesite. At times appears agglomeritic.
- b) SILTSTONE Fine grained, siliceous, green to light green to grey to brown silts.
- c) QUARTZITE Fine to medium grained, grey to light green.
- d) QUARTZ-BIOTITE ± FELDSPAR GNEISS Fine to medium grained with thin gneissic bands (< 2-3mm wide).

SYMBOLS

- Area of intense overburden
- Outcrop
- Geological contact
- Fault
- Rock sample
- DDH site
- Adit
- Trench
- Pit + muck pile
- Cabin
- Roads (well used)
- Road (cat tracks, poorly upkept)
- Ridge
- Gully
- Creek
- Fence
- Trail
- Bluff

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

17375
SCALE 1:2500



REVISED	HEK PROPERTY	
	GEOLOGY	
PROJ. No. 0176	SURVEY BY: J. S. J. S.	DATE: Feb. / 88
N.T.S. 82E/1	DRAWN BY: J. S. J. S.	SCALE: 1:2500
DWG. No. 8	NORANDA EXPLORATION	
	OFFICE: Vancouver	