

81-# 1139-9921

Assessment Report

A Report on the Geology of the
Koots 1, Sean 1, Windy 1 Claims

Denison Mines Limited
November, 1981

9921

A REPORT ON THE GEOLOGY OF THE
KOOTIS 1, SEAN 1, WINDY 1 CLAIMS

N.T.S. 930/3W

Latitude: 55°06'41" North

Longitude: 123°23'47" West

CARIBOO MINING DIVISION

by

R.L. Faulkner B.Sc.

Owner: Denison Mines Limited

Operator: Denison Mines Limited

November, 1981

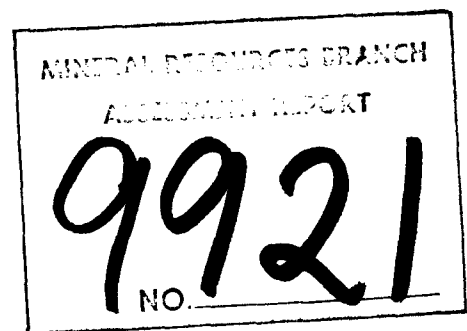


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MAPS

- | | | |
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| 1. | British Columbia Location Map | |
| 2. | Koots Group Claim Map | |
| 3. | Koots Group Geology Map | Map Pocket |
| 4. | Soil Sample Locations and Trenches | " |
| 5. | Plot of Mo Soil Geochemistry | " |
| 6. | Plot of W Soil Geochemistry | " |
| 7. | Plot of Cu Soil Geochemistry | " |
| 8. | Plot of Pb Soil Geochemistry | " |
| 9. | Plot of Zn Soil Geochemistry | " |
| 10. | Magnetometer Survey Grid and Contours | " |

FIGURES

Figure 1 Diagram of Trench 1, Trench 2, and Trench 3

APPENDIX

Appendix I Certificates of Analysis

1. GENERAL

1.1 History

Denison Mines Limited staked the Koots Group of Claims in 1980. During the 1980 field season, preliminary geological mapping at a scale of 1:10,000 was undertaken on the Koots 1 Claim and vicinity. Also, a geochemical soil sampling program comprised of 46 samples in conjunction with a ground magnetometer survey of 4.5 kilometres was done.

1.2 Summary of Work Done

During 1981, geological mapping at a scale of 1:5,000 was done on the Koots Group. A geochemical soil sampling program of 650 samples and a ground magnetometer survey of 31.5 kilometres were done. Follow up consisted of 3 trenches from which 7 channel samples were taken.

The field work was carried out by geologists Mr. R. Faulkner and Mr. R. Helgason, assisted by Mr. R. Cornock and Mr. J. Hayden.

2. LOCATION AND ACCESS

Situated within the Wolverine Range between the Nation and Parsnip Rivers, the Koots 1 Claim is 35 kilometres southwest of Mackenzie, British Columbia (Map 1). Access is by helicopter from Mackenzie or, by truck, along the Philips Creek logging road, 45 kilometres from Highway 97. This road comes to within 4 kilometres of the claim.

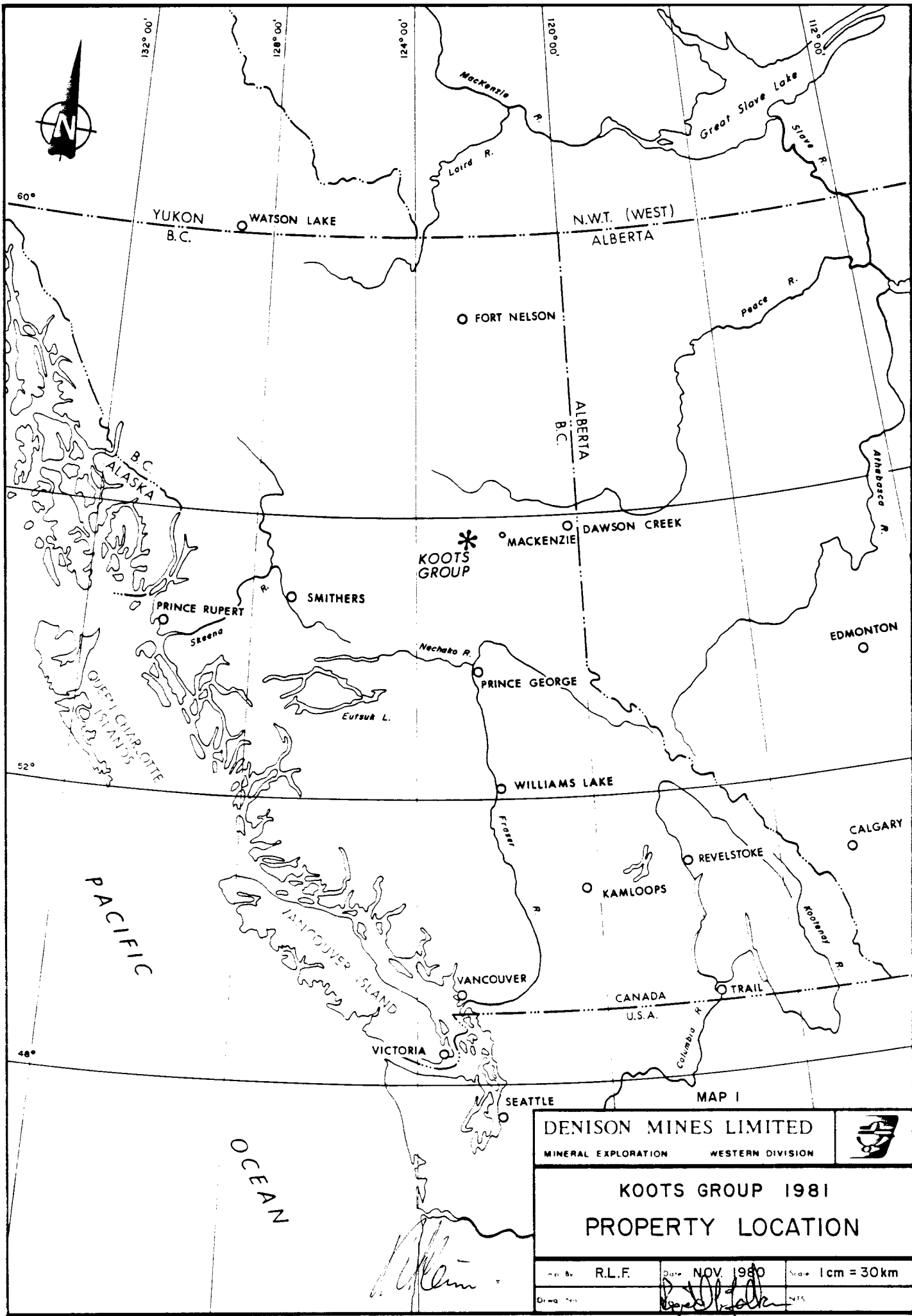
3. TOPOGRAPHY AND VEGETATION

The rolling hills and rounded mountains of the Wolverine Range rise from the undulating lowlands of the Interior Plateau. Elevations vary from 1000 metres in the low wetlands, through rolling hills to mountains of 2000 metres. The Koots 1 Claim lies between 1200 metres and 1600 metres, straddling one of the mountain ridges.

Vegetation is locally quite variable but characterized by white spruce, lodgepole pine and trembling aspen. Black spruce grows in low wetlands, with alpine fir at the higher, more exposed elevations. Cedars, birches, and alders occur on the slopes of the hills and mountains. Grasses, wild parsnip and oregon grape are found in the undergrowth and on open slopes.

4. Claims: (Map 2)

<u>Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Month of Record</u>
Koots 1	12	1719	June, 1980
Sean 1	8	1720	June, 1980
Windy 1	6	1718	June, 1980



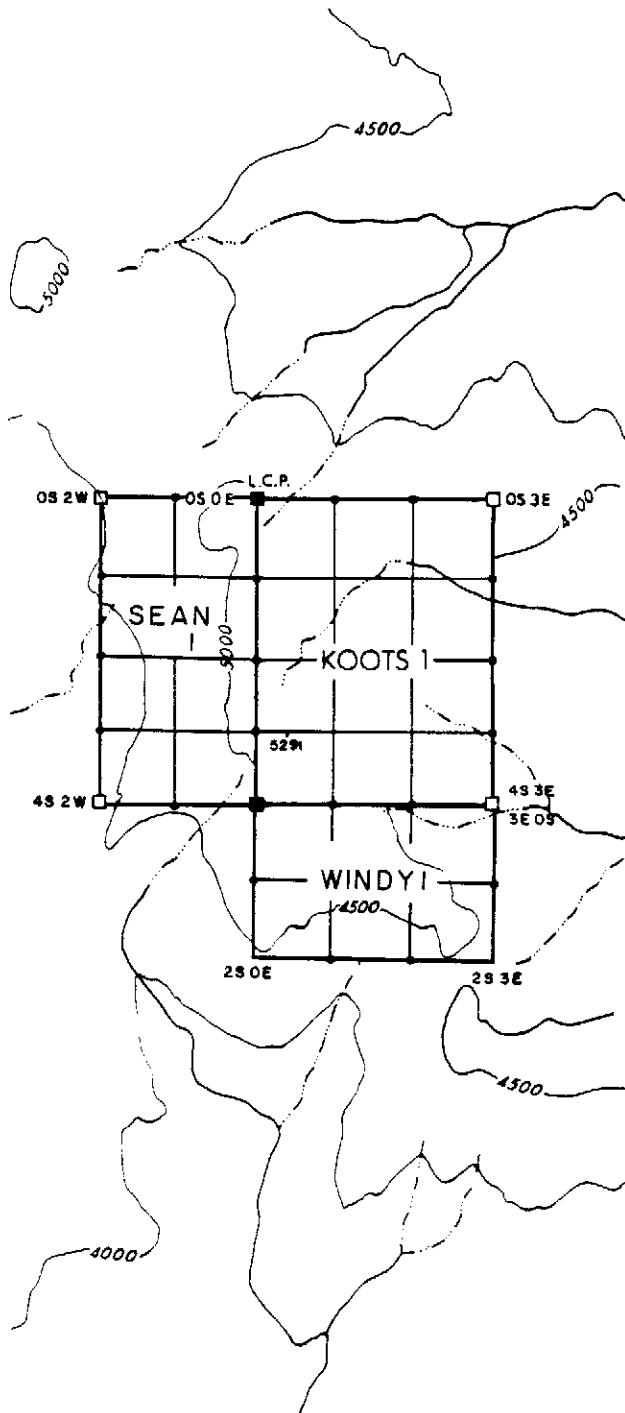
DENISON MINES LIMITED
 MINERAL EXPLORATION WESTERN DIVISION



KOOTS GROUP 1981
 PROPERTY LOCATION

Prep. by	R.L.F.	Date	NOV. 1980	Scale	1 cm = 30 km
Drawn by					N.T.S.

Altim

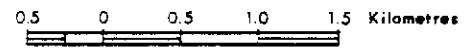


LEGEND

- Legal Corner Post
- Corner Post
- 450E Corner Post Identification Number
- Intermediate Post
- Outer Claim Boundary
- Inner Unit Boundary
- ~ Stream

L.C.P. Latitude 55°06'41"
Longitude 123°23'47"

SCALE



CONTOUR INTERVAL 500 FEET

MAP 2

DENISON MINES LIMITED

MINERAL EXPLORATION

WESTERN DIVISION



KOOTS GROUP 1981
Claim Location

Comp. By: RLF Date: DEC. 1980 Scale: 1:50,000

Draw. No. [Signature] NTS: 930/3W

1. REGIONAL GEOLOGY

The Wolverine Range is a northwesterly trending ridge of metamorphic and sedimentary rocks. The rocks of the Wolverine Metamorphic Complex consist of granitoid gneiss, pegmatite, schist, amphibolite and quartzite. Andesitic volcanics, greenstone, argillite, shale and limestone of Upper Paleozoic and younger or older rocks are interwoven with the metamorphic rocks. Minor intrusions of Cretaceous and/or Tertiary age occur, consisting of small stocks of coarse grained granitic and/or granodioritic material.

2. LOCAL GEOLOGY

2.1 Description

The Koots Group is underlain by a Cretaceous and/or Tertiary stock which intruded and metamorphosed marine sediments of Upper Paleozoic and younger or older age. During emplacement, the granite intrusion created a contact metamorphic gradient which decreases rapidly from the stock. In sharp contact with the intrusive, skarns, within tens of metres, grade into coarse then fine grained, recrystallized limestone. In gradient contact with the stock, gneisses and schists, in a few metres, grade to pervasively silicified argillite and phyllitic argillite. Emplacement of the granitic intrusion appears to be associated with a northerly trending fault system (Map 3).

The main faulting of the areal rocks is a high angle normal fault set trending northeast-southwest. Three faults make up the set and cut the north central, central and southeast sections of the property. A small high angle dip slip fault is thought to be transverse to the main faulting.

The Cretaceous and/or Tertiary intrusion grades southwards from coarse grained quartz monzonite-granodiorite through medium grained quartz monzonite into granular granites, then to fine to medium grained alaskites. The quartz monzonite-granodiorite contains 20% quartz, 65% combined feldspars and 15% biotite and hornblende. The granite is equigranular, with 40% quartz, 40% orthoclase, 10-15% plagioclase and 5% biotite and hornblende. The alaskite contains 40% quartz, up to 60% combined feldspars and less than 1% mafic minerals.

Finer grained equivalents of the intrusives occur as dykes, sills, and aplites in the stock and the surrounding metamorphosed sediments. In contrast, large crystals of quartz, feldspars, and micas occur in pods throughout the stock. Quartz veining and pods of quartz, centimetres in size, are found in the metamorphosed sediments and less frequently within the granitic material. The intrusive is well fractured and jointed with northeast as the preferred direction. Locally in the western segment of the stock the rocks are slightly porphyritic with a slight chloritic alteration.

Calc-silicate skarns are in sharp contact with the stock, and in gradational contact with metasomatized shales. In both cases the contact skarn is fine grained, highly siliceous and light green, diopside skarn. These skarns are from a few centimetres to metres thick. The outer skarn is generally dark green to brown, highly crystalline, inhomogeneous and garnetiferous. Thicknesses range from a few centimetres to tens of metres. This type of skarn can contain massive sulphides.

In sharp contact with the calc-silicate skarns are recrystallized limestones. They are generally coarse grained, dirty grey, banded, with the occasional carbonate vein, but no visible metallic mineralization. Bedding is visible but distorted. Thicknesses are generally in the order of tens of meters.

A gradational contact occurs between the stock and metamorphosed shales. The intrusive rocks become coarser grained with an increase in mafic content further into the contact zone. These rocks grade through slightly foliated gneisses into schists. This gradation or contact zone is only a few metres thick. Metasomatism seems to have effected the country rock for a few metres from the contact zone, giving rise to siliceous and micaceous skarn. From this point low grade pervasive metamorphism created siliceous and phyllitic argillites.

Sulphide minerals occur throughout the intrusives and meta-sediments. Pyrrhotite is dominant and pervasive in both rock types as fine grained disseminations and in masses associated with magnetite, chalcopyrite and sphalerite along skarn, limestone contacts. Molybdenite, found as flakes and rosettes, occurs in the skarns and frequently in the aplites, alaskites and, rarely, in pegmatitic pods. Galena is rare and has only been found as small crystals in a garnetiferous skarn.

Scheelite is noted in the calc-silicate skarns. Magnetite associated with biotite is found as fine grained disseminated crystals in the intrusives as well as the skarns. Epidote exists locally in veinlets and fracture fillings in the contact zone of the stock and metamorphosed sediments.

2.2 Discussion

The metamorphosed sediments that exist on and around the Koots Group were laid down as interbedded limestones and fine grained clastic sediments. These sediments are thought to be of either the Slide Mountain or Cache Creek Groups. Tectonic activity during the Columbian Orogeny created local uplift, folding and emplacement of acid intrusives. In the study area, faulting controlled the emplacement of multi-phased acid intrusions.

Underlying the Koots Group, the stock consists of zoned phases within gradational contacts from quartz monzonite on the periphery through granite into an alaskite. Pegmatitic pods exist in and aplites cut through all phases of the stock. Magmatic and hydrothermal fluids were controlled by faulting and fracturing of the stock and the faulting, fracturing and bedding of the surrounding metamorphosed sediments.

Metasomatism produced garnet, diopside/garnet and diopside skarns and siliceous and phyllitic argillites. Metasomatic fluids were the source of elements for the metallic minerals.

Pyrrhotite, sphalerite, molybdenite, scheelite, chalcopyrite, magnetite, and rarely galena have been deposited in the calc-silicate skarns. In the siliceous and phyllitic argillites, pyrrhotite was recognizable, with rare molybdenite. Magnetite and pyrrhotite were noted to occur in the more mafic intrusives, and molybdenite was very local and limited.

III GEOCHEMISTRY

1. SAMPLING PROCEDURE

A geochemical soil sampling program, consisting of six hundred and fifty locations, numbers 81030010 to 81030660, was undertaken on the Koots Group in 1981. Six hundred and thirty-five samples were taken from the apparent "B" soil horizon at an average depth of 18 centimetres. Twenty-one 1500 metre east-west lines, 100 metres apart, with 50 metre stations comprised the sampling grid (Map 4).

Two blast hole trenches approximately 1.5 metres wide, 6 metres long and 1 metre deep plus 1 hand trench 1 metre wide, 3 metres long and .2 metres deep were used to investigate a soil sample anomaly and mineralized outcrops. Seven channel samples averaging 1.5 metres long and .5 centimetres deep were taken from the exposed bedrock of the trenches. Samples 81030744 to 81030747 were taken from Trench 1 to sample bedrock beneath soil sample 81030042, which was anomalous in molybdenum, tungsten and copper. 81030748-81030749 from Trench 2 and 81030750 from Trench 3 to sample mineralized outcrops. (Map 4).

2. ANALYTICAL TECHNIQUES

The soil samples, packaged in consecutively numbered kraft paper sample bags, were sent to Bondar Clegg and Company Limited in North Vancouver, British Columbia, for geochemical analysis. These samples were dried, sieved to minus 80 mesh and analyzed for: Mo, Cu, Pb, Zn, utilizing HNO_3 -HCL hot extraction and atomic absorption spectrometry and for W using carbonate sinter and colourimetry.

The channel samples, placed in consecutively numbered plastic sample bags, were also sent to Bondar Clegg and Company Limited for assaying. These samples were crushed and pulverized, then quantitatively analyzed using acid digestion and atomic absorption end point techniques.

The analysis results are tabled in Appendix I.

3. DISCUSSION

Statistical manipulation of the soil geochemistry results consisted of grouping the data and determining the arithmetic mean, \bar{x} , and the standard deviation, s , of the data around the mean for each element. Threshold values range from $\bar{x} + 2s$ to less than $\bar{x} + 4s$, first order anomalies range from $\bar{x} + 4s$ to less than $\bar{x} + 8s$, second order anomalies range from $\bar{x} + 8s$ to less than $\bar{x} + 16s$ and third order anomalies are greater than $\bar{x} + 16s$.

For molybdenum there are twenty-seven threshold values, six first order anomalies, three second order anomalies and two third order anomalies of 1480 ppm. and 2100 ppm. Mo (Map 5). The tungsten data show thirteen threshold values, eight first order anomalies, one second order anomaly and two third order anomalies of 180 ppm. and 585 ppm. W (Map 6). Copper has seventeen threshold values, eight first order anomalies, no second order anomalies and two third order anomalies of 965 ppm. and 6262 ppm. Cu (Map 7). For lead there are twenty-one threshold values, nine first order anomalies, one second order anomaly of 186 ppm. Pb and one third order anomaly of 710 ppm. Pb (Map 8). The zinc data show thirty-five threshold values, fourteen first order anomalies, and eight second order anomalies from 1410 ppm. to 2370 ppm. Zn (Map 9).

The plotted anomalous soil sample results closely reflect the geology, with skarns appearing to be the source of a majority of anomalies. There is some dispersion of the more mobile elements resulting in scattered point anomalies.

Two of the three trenches have interesting sample results. From Trench 1 sample 81030744 has 0.075% Mo over 1.65 metres, 81030745 has 0.037% Mo and 0.68% W over 1.35 metres, 81030746 has 0.038% Mo over 1.35m and 81030747 has 0.036% Mo and 0.11% Cu over 1.2 metres. Trench 2 has no notable values and the one sample 81030750 of Trench 3 shows 3.10% Mo over 1.38 metres (Figure 1).

TRENCH 1

81030744

1.65 m

0.075 , 0.04 , <0.01 , <0.01 , <0.01



81030745

1.35 m

0.037 , 0.68 , <0.01 , <0.01 , 0.01

81030746

1.35 m

0.038 , 0.04 , 0.04 , <0.01 , 0.03

8130747

1.2 m

0.036 , 0.07 , 0.11 , 0.01 , 0.01

Interlayered
Garnet
Diopside
Skarn

Sulphide
Skarn

TRENCH 2

81030748

1.7 m

0.005 , <0.01 , <0.01 , <0.01 , <0.01

81030749

1.9 m

0.014 , <0.01 , <0.01 , <0.01 , <0.01

Metasediment

Alaskite
Aplite

Metasediment



TRENCH 3

81030750

1.38 m

3.10 , 0.05 , <0.01 , <0.01 , 0.01

Diopside
Garnet Skarn

MoS₂ Rich
Alteration Zone

Diopside , Garnet Skarn



LEGEND



Blast Hole Trench Outline



Channel Sample

81030744 Channel Sample Number

1.65 Channel Sample Length

Channel Sample Assay
Results in Percent

Mo W Cu Pb Zn
0.075, 0.04 , 0.01 , 0.01 , 0.01

--- Hand Trench Outline

- - - Geological Contact

[Handwritten Signature]

SCALE 1:50



FIGURE 1

DENISON MINES LIMITED			
MINERAL EXPLORATION		WESTERN DIVISION	
KOOTIS GROUP 1981			
TRENCHES			
Drawn By: R.L.F.	Date: NOV. 1981	Scale: 1:50	
Drawn No:	<i>[Handwritten]</i>	93 0/3W	

IV GEOPHYSICS

1. SURVEY PROCEDURE

A geoMetrics Model G816 Portable Proton Magnetometer was used to conduct a 31.5 kilometre ground magnetic survey. The survey grid consisted of 21, 1.5 kilometre east-west lines, 100 metres apart, with 50 metre stations.

This magnetometer measures the total intensity of the earth's magnetic field with a sensitivity up to ± 1 gamma through the use of proton precession. By measuring the total field intensity orientation errors are minimized.

To ensure optimum results the sensor was always oriented north-south so that the sensor axis was perpendicular to the earth's field, held still to reduce random noise and mounted on a staff to reduce the effect of very high local magnetic gradients. Station 10+00N 12+50E was used as the base station. By referring back to this station on closure of the traverse, a check on the accuracy of the survey and diurnal variations were obtained.

No corrections have been made to the data obtained.

2. DISCUSSION

The recorded data from the magnetometer survey are plotted on a 1:5000 scale map with 2000 gamma contour intervals (Map 10). At this scale the data reflect the mapped geology. The highs are associated with magnetite, pyrrhotite bearing skarns and the lows with the alaskite and/or recrystallized limestone.

V SUMMARY AND CONCLUSIONS

A multi-phased acid intrusion has been emplaced in interbedded limestones and fine grained clastic sediments. In contact with the stock, metasomatism has created skarns and schists. Outwards, pervasive low grade metamorphism occurs as recrystallized limestones and siliceous and phyllitic argillites.

Metallic minerals occurring in these rocks are pyrrhotite, magnetite, pyrite, molybdenite, scheelite, chalcopyrite, rare galena and sphalerite. Skarn is the major host of economic metallic mineralization with minor occurrences contained in the argillites and intrusives.

Soil sampling results showed anomalous values for molybdenum 1480 ppm. and 2100 ppm Mo, tungsten 180 ppm. and 585 ppm. W, copper 965 ppm. and 6262 ppm. Cu, and lead 710 ppm. Pb with zinc having a large number of minor anomalies. These anomalous values are closely related to the geology with skarns appearing to be the major source of the elements.

Follow up blast hole trenching has shown interesting molybdenum values associated with minor values in tungsten and copper. Of specific interest is Trench 3, which has 3.10% Mo over 1.38 metres. Trench 1 contains 0.046% Mo and 0.21% W over 5.5m and 0.11% Cu over 1.2m. There were no values of interest for Trench 2.

The magnetometer survey reflects the mapped geology, with highs associated with magnetite, pyrrhotite bearing skarns and the lows the alaskite and/or recrystallized limestone.

The 1981 exploration program has shown the property contains interesting molybdenum and tungsten values in soils and trenches and minor values for copper, lead and zinc in soils. The magnetometer survey has shown that a tighter grid is necessary to delineate buried skarns. Further work is necessary to outline the continuity, extent and economic mineral grades of the important skarns and to determine the type and extent of mineralization in the intrusives.

VI RECOMMENDATIONS

The following program is recommended for the 1982 field season:

1. Further geological mapping at a scale of 1:5000.
2. Extension of the geochemical soil sample grid to cover additional mineralization. A total 155 soil samples to be taken for analysis of Mo, W, Cu, Pb, Zn.
3. A ground magnetometer survey to cover the soil sample grid extension to define massive sulphide, magnetite showings, and structure.
4. Further trenching and channel sampling to investigate soil sample anomalies and mineralized outcrop.
5. Three hundred metres of drilling to define mineral occurrences, grades and tonnages.

Respectfully submitted,



Reginald L. Faulkner
Geologist
Denison Mines Limited



VII - ITEMIZED COST STATEMENT

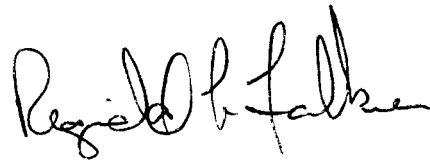
8.

June 17, 1981 to September 21, 1981

Wages:	Geologist	58 man days @ \$130.00/manday	\$ 7,540.00
	Field Assistant	58 man days @ \$ 90.00/manday	5,220.00
	Blaster(contract)	4 man days @ \$200.00/manday	800.00
	Blasting Assistant (contractor)	4 man days @ \$165.00/manday	660.00
Food:		124 mandays @ \$ 25.00/manday	3,100.00
Accommodation:		32 mandays @ \$ 20.00/manday	640.00
Transportation:	Northern Mountain Helicopters Bell 206III:		
		11.7 hours @ \$410.00/hour	1,797.00
		11.7 hours @ 23.0 gal./hour @ 1.80/gallon	484.38
	: CP Air; Vancouver to Prince George ; Prince George to Vancouver		410.40
	: Northern Thunderbird Air; Mackenzie to Prince George		273.00
Equipment Rental:	Trucks	58 days @ \$850.00/30 days	1,643.33
	Rock Drill	4 days @ \$ 50.00/day	200.00
Geochemical Analysis:	635 soil samples, geochemical		
	Mo, Cu, Pb, Zn @ \$4.00/sample		2,540.00
	W @ \$3.75/sample		2,381.00
	Sample Prep @ \$0.60/sample		381.00
	: 7 channel samples, assay		
	Mo, Zn @ \$13.00/sample		91.00
	Cu, Pb @ \$12.00/sample		84.00
	W @ \$ 9.00/sample		63.00
	Sample Prep. @ \$2.50/sample		18.00
Miscellaneous:	Explosives		300.00
		TOTAL	<u>\$31,626.11</u>

I, Reginald L. Faulkner, Geologist, with business address in Vancouver, British Columbia, and residential address in North Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1974 with a B.Sc., returned in 1977 completing a geological program in 1979 for a combined Geology, Physical Geography degree.
2. From 1970 to 1979, I have been engaged in various aspects of mineral exploration in British Columbia, Alberta, Yukon and the North West Territories. From 1979 to present, I have actively participated in mineral exploration in British Columbia as a Geologist with Riocanex Limited and Denison Mines Limited.
3. I personally participated in the field work on the Koots Group and I have compiled the data resulting from this work.



Reginald L. Faulkner

APPENDIX I

To: Denison Mines Ltd.

REPORT NO. A21 - 1524

PAGE No. 1

BONDAR-CLEGG & COMPANY LTD.

DATE: November 5, 1981

P. O. Box 11575
650 West Georgia Street
Vancouver, B. C.
V6B 4N7

CERTIFICATE OF ASSAY

Samples submitted: September 28, 1981
Results completed: November 5, 1981
PROJECT: WA0117 WA0118

I hereby certify that the following are the results of assays made by us upon the herein described core samples.

MARKED	GOLD		SILVER		Cu	Pb	Zn	Mo	W		
	Ounces per Ton	Grams per Metric Ton	Ounces per Ton	Grams per Metric Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent
81030744					L0.01	L0.01	L0.01	0.075	0.04		
81030745					L0.01	L0.01	0.01	0.037	0.68		
81030746					0.04	L0.01	0.03	0.038	0.04		
81030747					0.11	0.01	0.01	0.036	0.07		
81030748					L0.01	L0.01	L0.01	0.005	L0.01		
81030749					L0.01	L0.01	L0.01	0.014	L0.01		
81030750					L0.01	L0.01	0.01	3.10	0.05		

L denotes 'less than'

NOTE: Rejects retained three weeks
Pulps retained three months
unless otherwise arranged.

Registered Assayer, Province of British Columbia



BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: (604) 985-0681 TELEX: 04-352667

Geochemical Lab Report

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM
8103-0010	SOILS	11	17	66	8	3	8103-0042		265	42	274	2100	585
8103-0011		15	15	44	6	4	8103-0043		26	22	77	13	4
8103-0012		17	34	67	5	3	8103-0044		32	14	103	8	4
8103-0013		19	20	65	14	3	8103-0045		77	12	104	4	3
8103-0014		23	17	106	12	2	8103-0046		28	21	165	12	3
8103-0015		33	28	63	12	2	8103-0048		14	12	50	5	4
8103-0016		14	14	50	5	25	8103-0049		15	7	42	9	2
8103-0017		6	9	19	3	3	8103-0050		21	10	74	40	2
8103-0018		20	17	88	2	3	8103-0051		22	13	93	20	3
8103-0019		9	12	41	2	3	8103-0052		10	15	40	28	4
8103-0020		6	22	37	4	5	8103-0053		11	13	33	2	8
8103-0021		31	12	71	2	3	8103-0054		13	15	42	4	3
8103-0022		16	19	95	4	6	8103-0055		18	13	57	11	2
8103-0023		18	23	376	4	2	8103-0056		11	9	89	34	2
8103-0024		16	32	284	2	2	8103-0057		18	13	196	34	3
8103-0025		13	18	102	30	7	8103-0058		18	18	149	27	14
8103-0026		21	96	1100	13	6	8103-0059		28	19	161	45	12
8103-0027		15	14	670	24	4	8103-0060		18	14	66	22	3
8103-0028		25	29	580	24	3	8103-0061		20	32	197	47	3
8103-0029		19	35	420	17	4	8103-0062		19	17	114	29	3
8103-0032		10	42	71	11	4	8103-0063		14	44	108	28	2
8103-0033		13	58	118	11	15	8103-0064		18	88	217	22	3
8103-0034		20	50	169	10	3	8103-00066		12	61	114	9	4
8103-0035		26	43	122	12	2	8103-00067		18	24	116	40	2
8103-0036		15	38	111	6	6	8103-00068		17	23	75	66	6
8103-0037		17	36	78	6	4	8103-00069		17	42	28	14	5
8103-0038		8	32	76	4	3	8103-00070		19	48	565	7	3
8103-0039		13	29	123	5	2	8103-00071		19	31	67	23	4
8103-0040		13	15	75	8	2	8103-00072		16	26	82	12	4
8103-0041		8	10	39	4	8	8103-00073		15	32	62	4	6



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W PPM	NOTES
8103-00074		18	60	113	7	2		8103-00104		15	31	64	10	8	
8103-00075		16	22	66	4	3		8103-00105		16	31	61	5	8	
8103-00076		8	30	39	5	3		8103-00106		17	40	104	11	4	
8103-00077		8	15	53	3	2		8103-00107		15	42	60	7	4	
8103-00078		23	8	84	28	3		8103-00108		11	18	77	5	3	
8103-00079		26	19	248	6	15		8103-00109		13	26	74	8	4	
8103-00080		10	24	56	6	4		8103-00110		24	39	98	8	4	
8103-00081		24	21	82	14	26		8103-00111		17	26	97	6	3	
8103-00082		81	11	76	28	180		8103-00112		15	23	61	6	4	
8103-00083		14	17	90	23	40		8103-00113		26	40	128	10	2	
8103-00084		20	44	194	15	20		8103-00114		17	27	49	10	8	
8103-00085		20	9	67	47	2		8103-00115		14	38	108	11	2	
8103-00086		7	10	20	9	8		8103-00116		14	31	96	21	3	
8103-00087		15	11	44	78	5		8103-00117		14	23	137	12	4	
8103-00088		12	15	40	34	4		8103-00118		7	18	33	10	4	
8103-00089		27	43	126	42	4		8103-00119		15	29	116	14	5	
8103-00090		45	73	420	5	16		8103-00120		17	37	142	17	15	
8103-00091		25	32	197	6	5		8103-00121		20	91	770	11	6	
8103-00092		15	29	302	8	4		8103-00122		117	13	172	52	26	
8103-00093		66	68	1780	28	25		8103-00123		26	17	82	16	3	
8103-00094		12	28	141	49	6		8103-00124		16	68	600	34	15	
8103-00095		48	27	247	132	6		8103-00125		15	68	1690	14	30	
8103-00096		160	26	219	31	9		8103-00126		20	29	148	6	3	
8103-00097		15	30	46	21	5		8103-00127		12	20	277	8	65	
8103-00098		16	53	186	15	3		8103-00128		43	8	58	4	3	
8103-00099		12	24	68	3	4		8103-00129		15	14	103	7	5	
8103-00100		22	23	197	11	3		8103-00130		23	10	175	18	3	
8103-00101		20	56	126	8	4		8103-00131		18	10	91	6	6	
8103-00102		14	52	388	16	50		8103-00132		24	10	83	3	6	
8103-00103		13	26	43	8	8		8103-00133		46	15	155	4	5	



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W PPM	NOTES
8103-00134		20	16	64	11	8		8103-00164		20	14	63	3	6	
8103-00135		18	25	192	16	4		8103-00165		20	12	76	9	2	
8103-00136		16	21	73	12	4		8103-00166		21	24	73	5	7	
8103-00137		21	26	101	12	3		8103-00167		17	38	122	4	9	
8103-00138		133	12	470	18	8		8103-00168		132	107	985	55	58	
8103-00139		17	10	72	23	8		8103-00169		47	16	111	36	14	
8103-00140		16	30	74	6	3		8103-00170		11	20	54	16	5	
8103-00141		11	19	81	10	5		8103-00171		15	71	98	4	20	
8103-00142		24	36	109	6	5		8103-00172		8	17	40	3	9	
8103-00143		14	22	84	6	8		8103-00173		6	10	58	3	9	
8103-00144		11	23	30	4	11		8103-00174		3	7	15	2	3	
8103-00145		11	40	56	13	3		8103-00175		22	13	158	12	4	
8103-00146		17	54	152	14	5		8103-00176		25	16	153	17	6	
8103-00147		27	91	207	13	3		8103-00177		39	19	164	25	19	
8103-00148		6	11	37	5	5		8103-00178		6262	13	460	21	8	
8103-00149		11	26	84	10	7		8103-00179		15	6	21	2	9	
8103-00150		32	63	1199	6	19		8103-00180		12	17	81	7	7	
8103-00151		18	27	191	33	5		8103-00181		20	63	229	5	58	
8103-00152		16	22	108	45	7		8103-00182		54	56	231	147	8	
8103-00153		11	47	119	20	5		8103-00183		16	11	28	25	3	
8103-00154		97	98	227	1480	5		8103-00184		17	10	34	24	18	
8103-00155		29	32	136	9	2		8103-00185		17	78	136	45	6	
8103-00156		10	35	435	10	9		8103-00186		17	108	460	5	8	
8103-00157		47	16	71	7	8		8103-00187		30	75	750	21	6	
8103-00158		23	16	97	24	3		8103-00188		17	49	128	13	3	
8103-00159		37	10	297	16	6		8103-00189		8	20	34	4	4	
8103-00160		23	10	166	6	3		8103-00190		32	105	179	12	15	
8103-00161		16	13	324	11	3		8103-00191		11	48	73	9	6	
8103-00162		17	11	302	8	3		8103-00192		20	30	85	8	8	
8103-00163		15	9	79	2	3		8103-00193		25	39	161	6	6	



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM
8103-00194		17	30	44	10	8
8103-00195		17	33	109	19	4



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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM
0198	SOILS	20	19	134	8	4	9103-0226		27	49	100	12	10
8103-0197		18	18	73	13	9	8103-0227		5	12	13	4	15
8103-0198						1*	8103-0228		19	21	52	4	12
8103-0199		14	10	47	7	5	8103-0229		10	12	53	8	12
8103-0200		15	16	73	15	4	8103-0230		12	11	74	5	10
8103-0201		10	10	49	4	5	8103-0231		5	4	18	3	10
8103-0202		14	14	114	8	5	8103-0232		40	8	75	32	4
8103-0203		24	53	1900	14	6	8103-0233		13	23	272	15	3
8103-0204		20	32	112	13	5	8103-0234		26	17	186	29	48
8103-0205		23	17	115	9	5	8103-0235		21	13	450	16	3
8103-0206		24	18	255	20	2	8103-0236		10	13	147	24	2
8103-0207		18	15	99	15	9	8103-0237		15	17	144	14	2
8103-0208		120	16	170	10	7	8103-0238		22	14	397	11	6
8103-0209		10	14	234	19	9	8103-0239		21	11	70	14	3
8103-0210		32	14	162	18	9	8103-0240		18	12	57	13	2
8103-0211		17	14	86	6	10	8103-0241		20	14	87	11	2
8103-0212		54	125	1410	10	22	8103-0242		13	12	50	9	3
8103-0213		30	108	355	24	10	8103-0243		15	25	114	9	19
8103-0214		30	26	276	11	10	8103-0244		12	14	149	115	3
8103-0215		14	7	55	25	10	8103-0245		30	36	353	32	2
8103-0216		42	39	525	11	11	8103-0246		26	24	231	30	3
8103-0217		27	187	140	18	9	8103-0247		14	19	110	50	4
8103-0218		16	111	351	16	10	8103-0248		44	35	455	31	3
8103-0219		20	110	316	12	10	8103-0249		12	20	79	43	3
8103-0220		16	41	167	6	8	8103-0250		23	21	182	40	3
8103-0221		12	38	79	17	8	8103-0251					18	1*
8103-0222		11	41	68	19	9	8103-0252		24	39	291	72	4
8103-0223		10	25	65	23	6	8103-0253		20	57	145	25	3
8103-0224		14	42	115	33	5	8103-0254		13	34	90	14	3
8103-0225		37	82	284	18	8	8103-0255		39	55	173	10	3



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Geochemical Lab Report

SAMPLE NUMBER	ELEMENT UNITS	Cd PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM	SAMPLE NUMBER	ELEMENT UNITS	Cd PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM
8103-0295		30	60	325	8	3	8103-0296		24	13	60	4	2
8103-0297		17	36	107	8	3	8103-0297		18	10	85	3	3
8103-0298		11	9	33	9	3	8103-0298					18	1*
8103-0299		33	31	331	29	2	8103-0299		24	19	100	2	2
8103-0290		38	12	395	39	4	8103-0290		7	7	33	1	3
8103-0281		51	70	1330	43	2	8103-0291		7	7	33	1	4
8103-0282		91	14	375	24	3	8103-0292		9	12	38	1	13
8103-0283		43	20	1150	27	3	8103-0293		60	2	105	8	30
8103-0284		17	30	162	19	4	8103-0294					19	1*
8103-0285		90	8	590	12	2	8103-0295		13	11	154	20	10
8103-0266		30	14	322	15	3	8103-0296		20	8	214	13	4
8103-0267		22	14	152	24	2	8103-0297		21	14	188	19	3
8103-0268		25	19	135	23	4	8103-0298		33	14	108	3	2
8103-0269		33	13	490	15	3	8103-0299		21	12	322	13	3
8103-0270		54	15	1140	11	2	8103-0300		46	11	350	15	3
8103-0271		24	10	138	23	3	8103-0301		14	11	214	17	3
8103-0272		12	16	111	34	2	8103-0302		44	25	350	19	3
8103-0273		10	14	53	12	3	8103-0303		17	14	102	9	2
8103-0274		26	22	132	20	3	8103-0304		22	15	185	22	3
8103-0275		20	22	89	21	3	8103-0305		34	14	213	32	2
8103-0276		14	23	90	29	3	8103-0306		9	12	49	8	3
8103-0277		14	29	76	12	3	8103-0307		9	13	59	8	4
8103-0278		12	37	93	17	2	8103-0308		6	11	45	24	3
8103-0279		13	34	83	15	3	8103-0309		9	15	57	21	4
8103-0280		19	37	101	10	2	8103-0310		9	10	36	10	2
8103-0281		28	37	180	6	3	8103-0311		18	25	318	18	3
8103-0282		25	72	140	8	2	8103-0312		18	23	23	17	3
8103-0283		17	23	100	8	2	8103-0313		32	36	137	10	3
8103-0284		18	11	95	12	2	8103-0314		6	22	74	5	3
8103-0285		21	19	84	1	3	8103-0315		17	29	122	6	2



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Geochemical Lab Report

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM
8103-0316		13	43	70	9	2	8103-0346		22	42	111	8	3
8103-0317		12	24	119	9	2	8103-0347		29	192	270	1	20
8103-0318		14	35	167	10	2	8103-0348		12	11	48	28	60
8103-0319		27	48	147	11	14	8103-0349		15	14	41	7	9
8103-0320		27	50	171	10	2	8103-0350		17	20	78	2	5
8103-0321		29	28	320	12	2	8103-0351		18	29	108	1	4
8103-0322					18	1*	8103-0352		14	25	97	ND	3
8103-0323		26	9	81	19	3	8103-0353		30	24	95	1	3
8103-0324		4	8	19	3	9	8103-0354		12	17	58	ND	3
8103-0325		64	15	336	13	11	8103-0355		22	25	94	4	2
8103-0326		95	25	585	15	3	8103-0356		14	13	51	6	4
8103-0327		23	28	273	13	3	8103-0357		134	7	121	5	6
8103-0328		18	14	125	15	3	8103-0358		28	12	92	1	7
8103-0329		107	21	3370	6	2	8103-0359		12	8	48	9	6
8103-0330		48	10	405	13	3	8103-0360		6	7	32	5	8
8103-0331		16	14	77	10	2	8103-0361		16	10	30	1	7
8103-0332		37	14	153	18	2	8103-0362		22	11	18	3	3
8103-0333		12	11	49	7	3	8103-0363		18	6	191	19	6
8103-0334		15	14	67	9	33	8103-0364		22	21	133	33	4
8103-0335		14	18	91	12	3	8103-0365		10	10	143	9	4
8103-0336		7	32	129	4	3	8103-0366		11	8	139	10	3
8103-0337		12	51	75	14	3	8103-0367		13	13	115	9	6
8103-0338		21	30	90	10	3	8103-0368		15	12	71	42	4
8103-0339		12	14	60	8	3	8103-0369		30	5	148	24	3
8103-0340		18	23	135	17	2	8103-0370		26	18	148	24	5
8103-0341		23	42	209	12	24	8103-0371		26	14	56	35	4
8103-0342		17	37	101	34	2	8103-0372		23	12	83	13	3
8103-0343		20	48	167	12	4	8103-0373		12	14	67	3	4
8103-0344		36	22	159	23	4	8103-0374		17	25	134	5	3
8103-0345		14	28	84	9	3	8103-0375		16	33	147	40	9

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM
8103-0376		10	15	39	8	3	8103-0406		38	16	209	23	2
8103-0377		14	13	64	10	2	8103-0407		16	22	108	12	2
8103-0378		15	35	117	11	6	8103-0408		30	42	240	11	15
8103-0379		12	18	69	12	2	8103-0409		27	13	610	5	6
8103-0380		22	20	49	10	2	8103-0410		27	13	116	8	3
8103-0381		14	13	42	15	3	8103-0411		20	24	91	4	7
8103-0382		22	39	146	12	3	8103-0412		39	22	126	11	6
8103-0383		16	24	191	16	4	8103-0413		23	36	102	4	3
8103-0384		18	21	430	7	8	8103-0414		38	81	282	20	4
8103-0385		19	10	142	11	9	8103-0415		16	39	221	10	3
8103-0386					18	1*	8103-0416		39	12	232	13	3
8103-0387					18	1*	8103-0417		18	16	227	10	3
8103-0388		37	9	415	26	6	8103-0418		60	20	890	15	3
8103-0389		4	11	35	6	9	8103-0419		14	13	98	3	3
8103-0390		10	9	42	8	22	8103-0420		24	19	1010	12	3
8103-0391		22	11	221	21	6	8103-0421		12	21	242	13	2
8103-0392		11	7	83	15	3	8103-0422		102	10	880	11	4
8103-0393		12	8	70	18	2	8103-0423		34	11	776	9	3
8103-0394		15	20	178	8	4	8103-0424		14	10	211	20	3
8103-0395		19	6	248	19	2	8103-0425		11	6	46	13	3
8103-0396		10	9	254	14	8	8103-0426		5	5	8	ND	3
8103-0397		28	13	132	12	2	8103-0427		10	15	59	4	4
8103-0398		32	11	257	12	6	8103-0428		17	7	135	14	3
8103-0399		24	17	73	20	3	8103-0429		6	8	87	15	7
8103-0400		12	22	108	9	3	8103-0430		8	24	107	8	6
8103-0401		18	37	163	6	3	8103-0431		10	7	76	6	3
8103-0402		15	710	1520	23	15	8103-0432		24	16	238	21	9
8103-0403		12	20	65	7	6	8103-0433		15	9	57	23	4
8103-0404		15	12	48	6	3	8103-0434		16	11	48	12	3
8103-0405		6	8	21	4	4	8103-0435		44	17	227	34	4

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM
8103-0436		40	29	190	23	3	8103-0466		20	11	83	16	2
8103-0437		15	21	262	7	4	8103-0467		12	23	133	5	3
8103-0438		19	19	174	14	3	8103-0468		17	25	153	14	3
8103-0439		13	14	94	19	4	8103-0469		13	20	79	20	6
8103-0440		18	14	125	11	4	8103-0470		15	20	83	17	2
8103-0441		14	14	50	14	3	8103-0471		15	25	75	15	2
8103-0442		22	26	181	20	3	8103-0472		14	15	164	19	9
8103-0443		20	23	88	13	3	8103-0473		10	21	54	7	2
8103-0444		22	18	56	4	4	8103-0474		15	21	105	11	3
8103-0445		14	24	73	3	3	8103-0475		34	12	114	20	3
8103-0446		11	16	43	2	2	8103-0476		25	17	114	22	3
8103-0447		34	32	1390	11	3	8103-0477		39	21	147	6	3
8103-0448		24	32	490	6	4	8103-0478		25	14	263	11	2
8103-0449		30	81	130	2	3	8103-0479		18	22	162	17	2
8103-0450		10	13	23	4	4	8103-0480		4	11	14	2	23
8103-0451		12	11	27	4	5	8103-0481		34	30	297	15	2
8103-0452		15	23	263	10	2	8103-0482		13	22	78	4	20
8103-0453		34	19	575	19	3	8103-0483		22	22	107	3	2
8103-0454		20	4	34	4	3	8103-0484		28	18	185	12	3
8103-0455		78	13	293	23	2	8103-0485		11	9	84	10	4
8103-0456		14	17	241	23	2	8103-0486		28	14	133	22	9
8103-0457		45	23	1070	27	14	8103-0487		46	9	174	2	2
8103-0458		8	7	135	17	8	8103-0488		18	14	238	2	3
8103-0459		16	9	57	22	4	8103-0489		22	15	183	33	6
8103-0460		7	11	48	12	7	8103-0490		72	12	500	16	4
8103-0461		14	14	223	17	2	8103-0491		25	13	530	18	6
8103-0462		18	25	176	15	2	8103-0492		15	10	134	18	2
8103-0463		184	24	580	14	10	8103-0493		20	8	90	24	7
8103-0464		14	14	55	11	2	8103-0494		10	9	34	14	5
8103-0465		31	13	153	17	2	8103-0495		6	9	37	11	5



BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: (604) 985-0681 TELEX: 04-352667

Geochemical Lab Report

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	W NOTES PPM
8103-0496		14	10	71	13	2	8103-0526		14	38	285	15	20
8103-0497		21	10	123	29	5	8103-0527		32	30	550	7	10
8103-0498		32	11	219	19	8	8103-0528		13	11	122	12	2
8103-0499		18	11	88	36	7	8103-0529		14	23	45	7	3
8103-0500		26	17	365	11	19	8103-0530		12	17	61	11	3
8103-0501		46	21	545	20	11	8103-0531		11	17	58	7	20
8103-0502		14	13	145	17	2	8103-0532		20	13	92	17	2
8103-0503		8	13	47	5	2	8103-0533		22	13	167	7	2
8103-0504		21	16	193	19	4	8103-0534		14	18	207	5	3
8103-0505		16	21	86	11	3	8103-0535		16	10	44	9	25
8103-0506		154	39	288	7	3	8103-0536		26	53	119	2	4
8103-0507		25	37	120	1	3	8103-0537		13	14	87	2	4
8103-0508		22	29	211	2	2	8103-0538		26	13	118	2	3
8103-0509		8	10	8	1	5	8103-0539		59	10	970	7	6
8103-0510		22	27	127	1	2	8103-0540		18	13	165	2	3
8103-0511		12	16	138	6	4	8103-0541		17	16	138	3	2
8103-0512		25	11	253	25	6	8103-0542		26	23	140	9	2
8103-0513		45	7	445	22	28	8103-0543		24	42	195	9	2
8103-0514		25	9	210	37	7	8103-0544		13	30	81	3	4
8103-0515		29	7	139	12	2	8103-0545		20	8	19	ND	2
8103-0516		10	10	43	11	13	8103-0546		8	12	65	17	2
8103-0517		9	10	56	9	3	8103-0547		14	38	178	10	6
8103-0518		15	17	110	11	1	8103-0548		23	14	535	16	5
8103-0519		13	16	71	8	2	8103-0549		14	8	93	5	3
8103-0520		15	11	68	13	3	8103-0550		16	12	154	8	4
8103-0521		10	18	95	32	2	8103-0551		14	14	133	8	20
8103-0522		7	11	41	6	2	8103-0552		11	11	70	7	6
8103-0523		19	18	37	9	3	8103-0553		2	10	6	1	8
8103-0524		14	17	49	11	4	8103-0554		13	14	101	7	4
8103-0525		13	12	50	10	3	8103-0555		10	17	88	20	3



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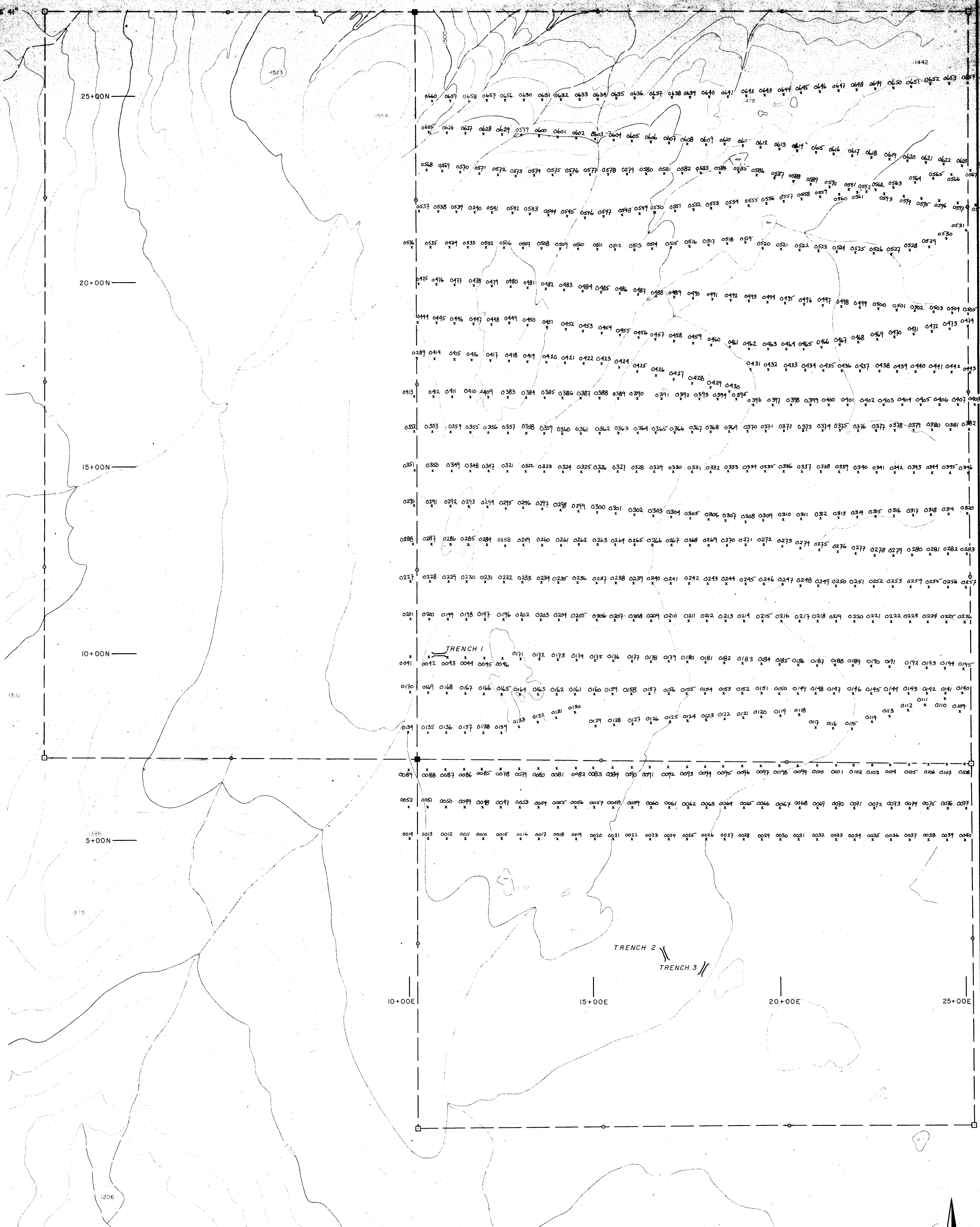
130 PEMBERTON AVE., NORTH VANCOUVER, B.C. V7P 2R5 PHONE: (604) 985-0681 TELEX: 04-352667

Geochemical Lab Report

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mn PPM	W PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mn PPM	W PPM	NOTES
8103-0566		6	11	35	9	8		8103-0586		7	13	39	8	3	
8103-0567					18		1*	8103-0587		54	8	394	18	3	
8103-0568		17	13	114	8	4		8103-0588		10	7	41	7	2	
8103-0569		16	15	123	14	5		8103-0589		9	8	23	4	2	
8103-0560		19	14	158	15	5		8103-0590		20	16	60	14	19	
8103-0561		24	20	135	23	2		8103-0591		12	10	75	9	4	
8103-0562		22	22	124	9	4		8103-0592		34	22	178	10	4	
8103-0563		19	15	164	16	3		8103-0593		14	14	71	12	3	
8103-0564		26	28	224	17	3		8103-0594		24	19	112	15	3	
8103-0565		12	12	54	3	4		8103-0595		21	16	135	9	14	
8103-0566		32	18	399	5	2		8103-0596		26	19	226	12	14	
8103-0567		28	19	175	12	2		8103-0597		26	18	190	8	10	
8103-0568		23	22	67	7	2		8103-0598		19	31	161	14	5	
8103-0569		18	7	45	6	2		8103-0599		19	10	128	6	4	
8103-0570		38	8	30	6	3		8103-0600		18	11	293	7	3	
8103-0571		91	21	1450	18	3		8103-0601		33	22	440	6	3	
8103-0572		20	14	226	6	2		8103-0602		29	32	204	7	4	
8103-0573		46	17	357	13	3		8103-0603		28	17	256	8	2	
8103-0574		40	9	41	3	2		8103-0604		27	28	185	12	2	
8103-0575		20	29	85	3	2		8103-0605		10	23	164	8	3	
8103-0576		32	19	123	12	2		8103-0606		16	12	134	19	3	
8103-0577		28	41	440	15	3		8103-0607		7	11	45	14	3	
8103-0578		11	9	97	10	2		8103-0608		15	6	90	12	3	
8103-0579		15	13	104	4	2		8103-0609					16	16	1*
8103-0580		28	14	113	1	2		8103-0610		14	13	96	5	2	
8103-0581		12	8	89	5	3		8103-0611		6	6	22	5	18	
8103-0582		24	5	220	33	2		8103-0612		7	6	22	3	6	
8103-0583		13	2	60	3	2		8103-0613		12	8	58	9	6	
8103-0584		29	9	154	8	2		8103-0614		10	12	45	6	5	
8103-0585		8	11	31	8	4		8103-0615		9	8	54	6	3	

123° 23' 47"

58° 06' 41"



LEGEND

- Legal Corner Post
- Corner Post
- Intermediate Post
- Claim Boundary
- 1383 Spot Elevation
- Stream
- * Swamp
- 25+00N Soil Sample Grid
- x Soil Sample Location
- (8103)0010 Soil Sample Number
- || Trench

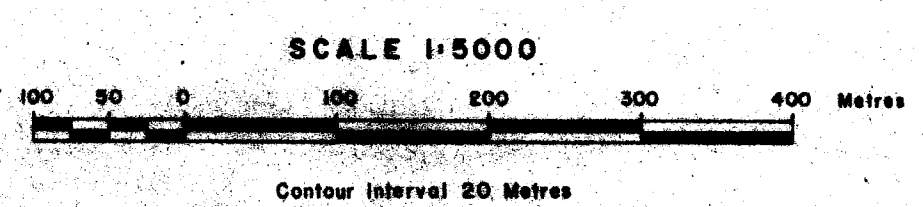
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9921
NO.

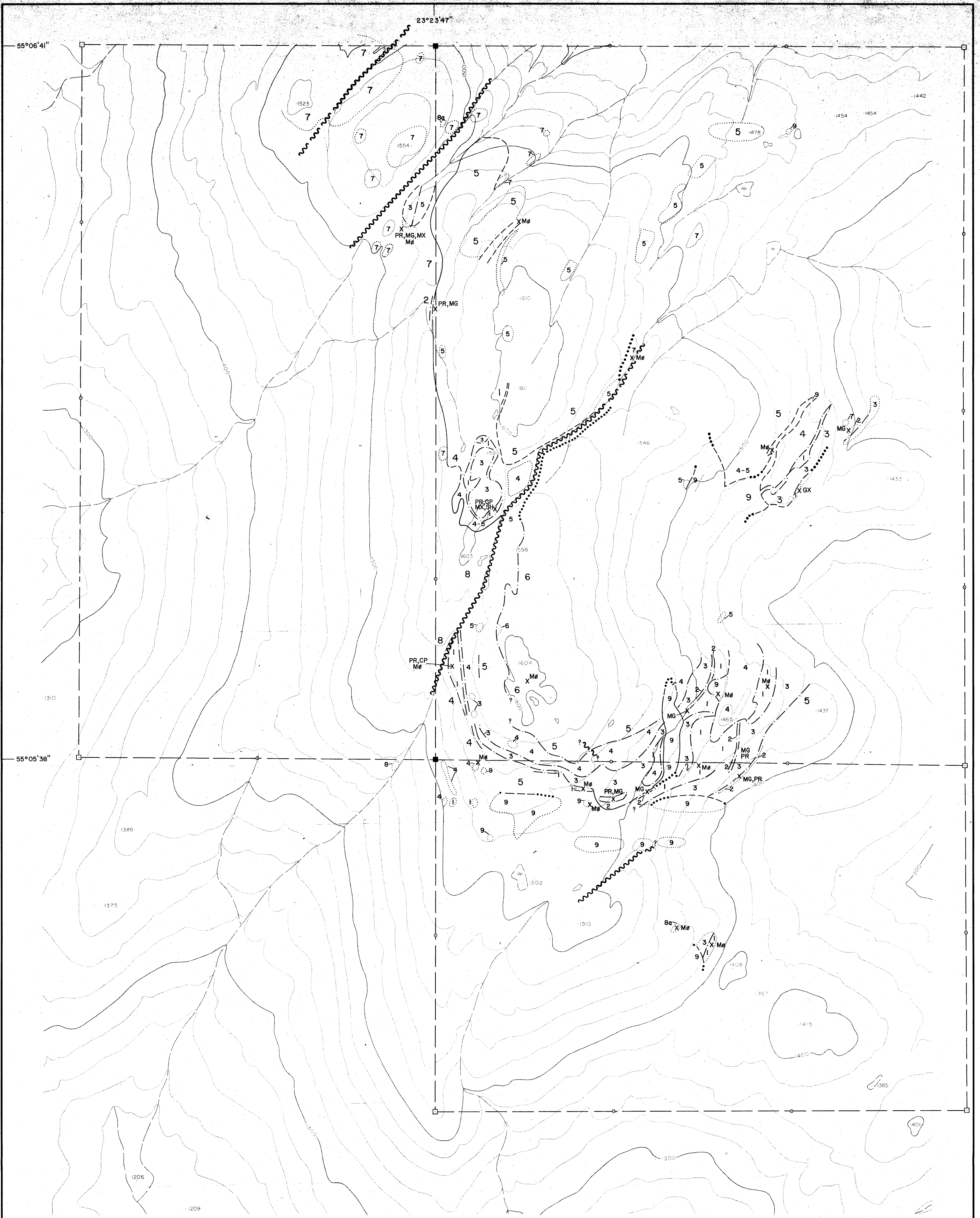
MAP 4

DENISON MINES LIMITED
MINERAL EXPLORATION WESTERN DIVISION

ROOTS GROUP 1981
SOIL SAMPLE LOCATIONS AND TRENCHES

Comp. By: R.L.F. Date: AUG. 1981 Scale: 1:5000
Drawn By: [Signature] NTS: 98-0/3W





LEGEND

- Legal Corner Post
- Corner Post
- Intermediate Post
- Claim Boundary
- 1383 Spot Elevation
- Stream
- Swamp

- CRETACEOUS OR TERTIARY**
- 9 Alaskite
 - 8 Granite; A Aplite
 - 7 Quartz Monzonite - Granodiorite
- UPPER PALEOZOIC AND (?) YOUNGER OR OLDER**
- 6 Phyllitic Argillite
 - 5 Siliceous Argillite
 - 4 Biotite Schist, Fine Grained
 - 3 Limestone, Recrystallized
 - 2 Skarn, Pyrrhotite, Magnetite
 - 1 Skarn, Garnet, Diopside

- Geological Boundary (defined, approximate, assumed)
- Metamorphic Boundary
- Outcrop Boundary
- ~ Fault (defined, assumed)
- X Showing

- ABBREVIATIONS**
- CP Chalcopyrite
 - GX Galena/Sphalerite
 - MG Magnetite
 - Me Molybdenite
 - PR Pyrrhotite
 - SH Scheelite
 - SL Sphalerite

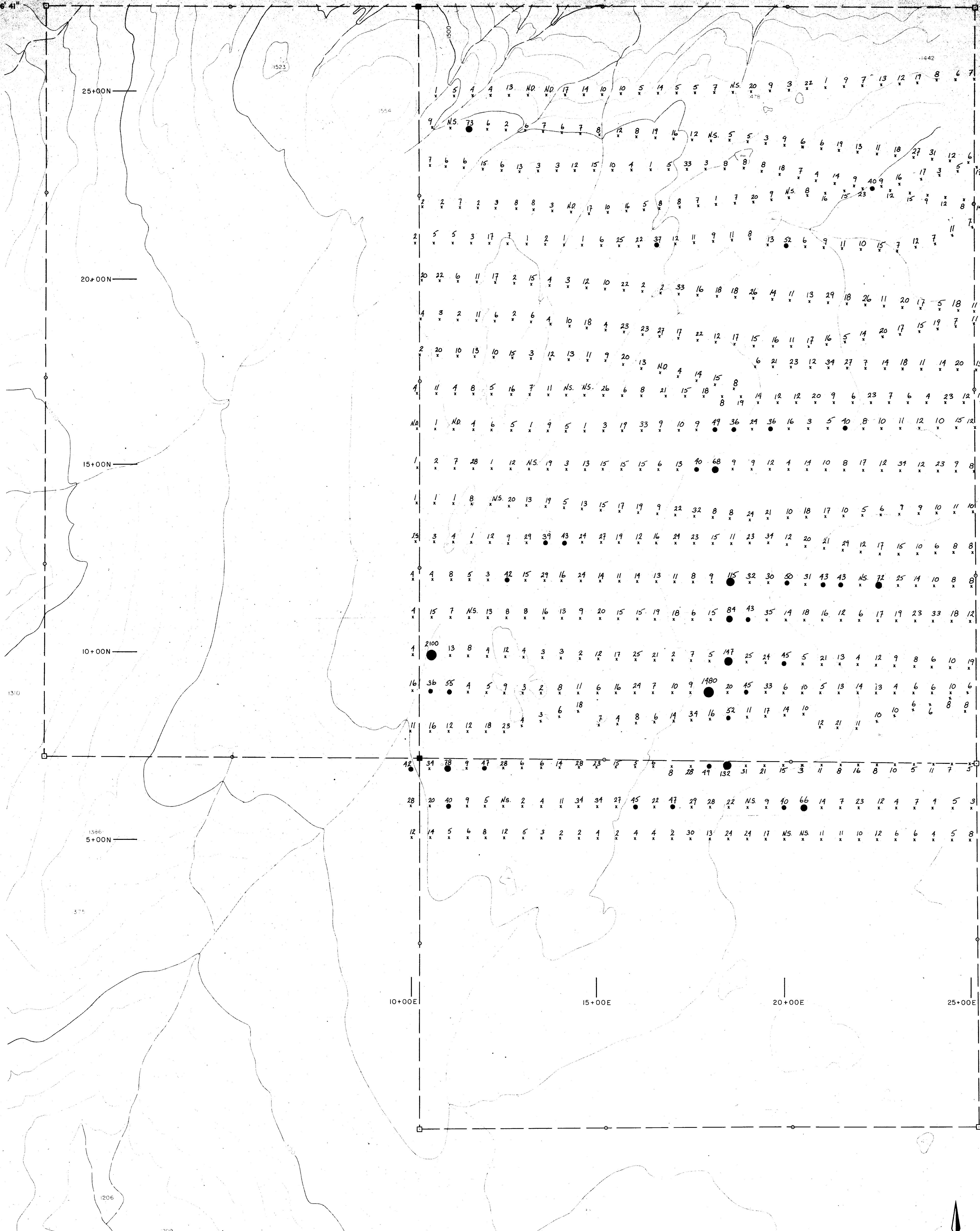
MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
9921
NO.

MAP 3

DENISON MINES LIMITED		
MINERAL EXPLORATION	WESTERN DIVISION	
KOOTIS GROUP 1981		
GEOLOGY		
Comp. By: R.L.F., R.R.H.	Date: OCT. 1981	Scale: 1:5,000
Drwg. No.:	<i>Ronald R. F.</i>	NTS: 93-0/3W

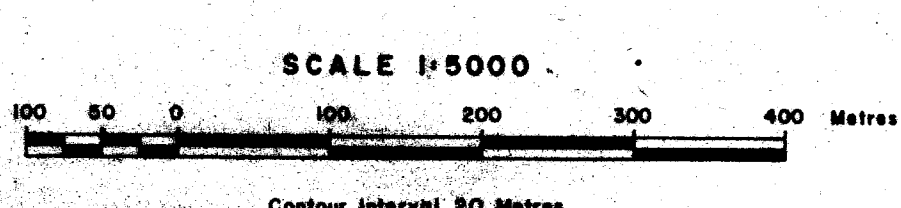
123° 23' 47"

55° 06' 41"



LEGEND

- Legal Corner Post
- Corner Post
- Intermediate Post
- Claim Boundary
- 1383 Spot Elevation
- Stream
- ★ Swamp
- 25+00N Soil Sample Grid
- x Soil Sample Location
- 2190 Soil Sample Analysis Results in ppm. Mo
- Anomalies
- Threshold 36-57 ppm. Mo
- First Order Anomaly 58-101 ppm. Mo
- Second Order Anomaly 102-189 ppm. Mo
- Third Order Anomaly 190+ ppm. Mo



MINERAL RESOURCES BRANCH
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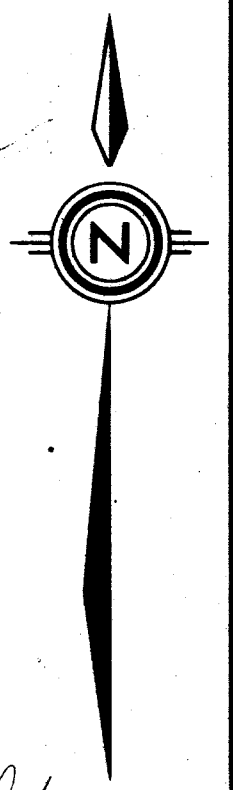
MAP 5

DENISON MINES LIMITED
MINERAL EXPLORATION WESTERN DIVISION

KOOTS GROUP 1981

Mo SOIL GEOCHEMISTRY

Comp. By: R. L. F. Date: AUG. 1981 Scale: 1:5000
Draw. No.: [Signature] NTS: 93-0/3W



123° 23' 47"

55° 06' 41"

25+00N

20+00N

15+00N

10+00N

5+00N

10+00E

15+00E

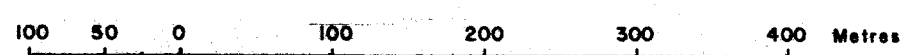
20+00E

25+00E

LEGEND

- Legal Corner Post
- Corner Post
- Intermediate Post
- Claim Boundary
- 1383 Spot Elevation
- Stream
- ⊛ Swamp
- 25+00N Soil Sample Grid
- x Soil Sample Location
- 585 Soil Sample Analysis Results in ppm. W
- Anomalies
- Threshold 22-37 ppm. W
- First Order Anomaly 38-69 ppm. W
- Second Order Anomaly 70-133 ppm. W
- Third Order Anomaly 134+ ppm. W

SCALE 1:5000



Contour Interval 20 Metres

MINERAL RESOURCES BRANCH
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MAP 6

DENISON MINES LIMITED
MINERAL EXPLORATION WESTERN DIVISION

KOOTS GROUP 1981

W SOIL GEOCHEMISTRY

Comp. By: R. L. F.	Date: AUG. 1981	Scale: 1:5000
Drwg. No.:	<i>R. L. F.</i>	NTS: 93-07/3W



W. Klein

123° 23' 47"

55° 06' 41"

25+00N

20+00N

15+00N

10+00N

5+00N

10+00E

15+00E

20+00E

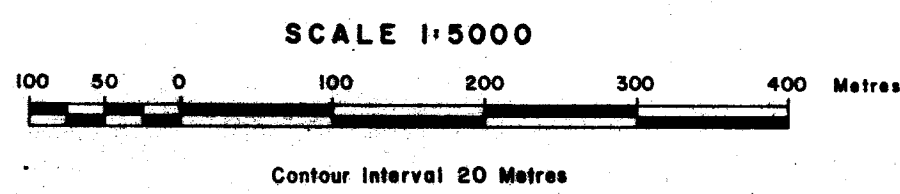
25+00E

LEGEND

- Legal Corner Post
- Corner Post
- Intermediate Post
- Claim Boundary
- 1383 Spot Elevation
- Stream
- * Swamp

- 25+00N Soil Sample Grid
- x Soil Sample Location
- 710 Soil Sample Analysis Results in ppm. Pb

- Anomalies
- Threshold 63-102 ppm. Pb
 - First Order Anomaly 103-182 ppm. Pb
 - Second Order Anomaly 183-342 ppm. Pb
 - Third Order Anomaly 343+ ppm. Pb



MINERAL RESOURCES BRANCH
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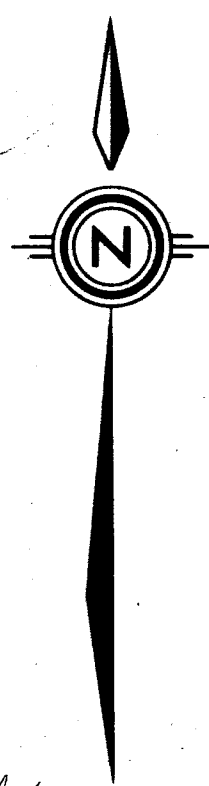
MAP 8

DENISON MINES LIMITED
MINERAL EXPLORATION WESTERN DIVISION

ROOTS GROUP 1981

Pb SOIL GEOCHEMISTRY

Comp. By: R.L.F.	Date: AUG. 1981	Scale: 1:5000
Drwg. No.:	By: <i>R. J. Fallick</i>	NTS: 93-0/3W



123° 23' 47"

55° 06' 41"

25+00N

20+00N

15+00N

10+00N

5+00N

10+00E

15+00E

20+00E

25+00E

LEGEND

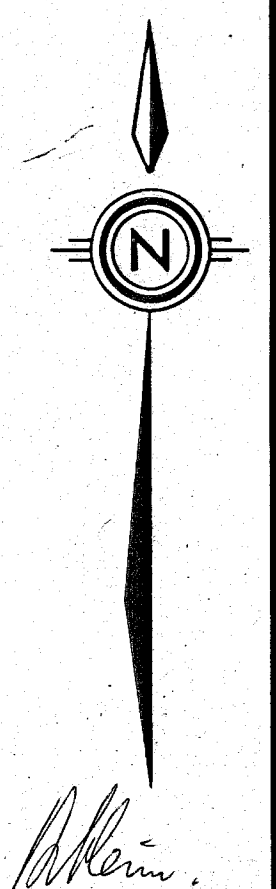
- Legal Corner Post
- Corner Post
- Intermediate Post
- Claim Boundary
- 1383 Spot Elevation
- Stream
- ⊛ Swamp
- 25+00N Soil Sample Grid
- x Soil Sample Location
- 6262 Soil Sample Analysis Results in ppm. Cu
- Anomalies
- Threshold 64-105 ppm. Cu
- First Order Anomaly 106-189 ppm. Cu
- Second Order Anomaly 190-357 ppm. Cu
- Third Order Anomaly 358+ ppm. Cu

SCALE 1:5000



Contour Interval 20 Meters

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
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MAP 7

DENISON MINES LIMITED
MINERAL EXPLORATION WESTERN DIVISION



KOOTS GROUP 1981

Cu SOIL GEOCHEMISTRY

Comp. By: R.L.F.	Date: AUG. 1981	Scale: 1:5000
Draw. No.:	<i>R. L. F.</i>	NTS: 93-0/3W

123° 23' 47"

55° 06' 41"

25+00N

20+00N

15+00N

10+00N

5+00N

10+00E

15+00E

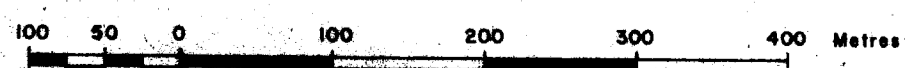
20+00E

25+00E

LEGEND

- Legal Corner Post
- Corner Post
- Intermediate Post
- Claim Boundary
- 1383 Spot Elevation
- Stream
- ⊛ Swamp
- 25+00N Soil Sample Grid
- x Soil Sample Location
- 2370 Soil Sample Analysis Results in ppm. Zn
- Anomalies
 - Threshold 458-757 ppm. Zn
 - First Order Anomaly 758-1357 ppm. Zn
 - Second Order Anomaly 1358-2557 ppm. Zn

SCALE 1:5000



Contour Interval 20 Metres

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
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NO.

MAP 9

DENISON MINES LIMITED		
MINERAL EXPLORATION	WESTERN DIVISION	
KOOTIS GROUP 1981		
Zn SOIL GEOCHEMISTRY		
Comp. By: R.L.F.	Date: AUG. 1981	Scale: 1:5000
Draw. No.:	<i>Reginald P. Falk</i>	NTS: 95-073W

123° 23' 47"

55° 06' 41"

25+00N

20+00N

15+00N

10+00N

5+00N

10+00E

15+00E

20+00E


25+00E

LEGEND

- Legal Corner Post
- Corner Post
- Intermediate Post
- Claim Boundary
- 1383 Spot Elevation
- Stream
- ⋆ Swamp
- 25+00N Magnetometer Survey Grid
- x Station
- 670 Magnetometer Reading in 100's of Gammas
- 2000 Gamma Contour Intervals
- 580(00) Gammas Baseline

MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
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NO.

MAP 10

DENISON MINES LIMITED		
MINERAL EXPLORATION	WESTERN DIVISION	
KOOTIS GROUP 1981		
MAGNETOMETER SURVEY		
Comp. By: R.L.F.	Date: AUG. 1981	Scale: 1:5000
Draw. No.:	<i>Revised 1/8/81</i>	NTS: 93-0/3W

