

4695

GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.,

PROPERTY ASSESSMENT REPORT

MAD GROUP

DOE GROUP

ZULA GROUP

BRITISH COLUMBIA

NICOLA MINING DIVISION - ASPEN GROVE AREA

92-H-16

Department of	
Mines and Petroleum Resources	
ASSESSMENT REPORT	
NO. 4695	M.P.

V.K. READ

OCTOBER, 1973

TABLE OF CONTENTS

- I. SUMMARY
 - 1. Mad Group
 - 2. Doe Group
 - 3. Zula Group
- II. INTRODUCTION
- III. LOCATION AND ACCESS
- IV. ASSESSMENT WORK COMPLETED
 - 1. Mad Group
 - 2. Doe Group
 - 3. Zula Group
- V. FIGURES
 - #1 1. Claim Location Map
 - #2 2. Grid Layout - Mad, Doe and Zula Groups
 - #3-53. Geochemistry Results - Cu, Pb, Zn Mad Group
 - a. Contoured
 - b. Individual Station Values
 - #6-8 4. Geochemistry Results - Cu, Pb, Zn Doe Group
 - a. Individual Station Values
 - 5. Geophysical Results - Mad Group
 - #9
 - a. Contoured
 - #10
 - b. Individual Station Values
- VI. APPENDIX
 - I. Geochemistry Sample Results
 - II. Certificates
 - III. Statement of Expenditures

I. SUMMARY

1. Mad Group -

The Mad Group is comprised of the following claims:

<u>Claim</u>	<u>Record No.</u>	<u>Recorded Owner</u>	<u>Anniversary Date</u>
MAD 1	57451	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 2	57452	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 3	57453	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 4	57454	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 5	57455	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 6	57456	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 7	57457	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 8	57458	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 9	57459	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 10	57460	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 11	57461	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 12	57462	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 13	57463	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 14	57464	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 15	57465	G.P.D. Co. of Can. Ltd.	October 25/73
MAD 16	57466	G.P.D. Co. of Can. Ltd.	October 25/73

Assessment credit of \$2,000 is requested for geochemical and geophysical work carried out during the period June 18, 1973 to June 22, 1973.

Assessment credit on individual claims is requested as follows:

<u>Claim</u>	<u>Record No.</u>	<u>Assessment Credit Requested</u>
MAD 1	57451	2 Years
MAD 2	57452	1 Year
MAD 3	57453	2 Years
MAD 4	57454	1 Year
MAD 5	57455	2 Years
MAD 6	57456	1 Year

<u>Claim</u>	<u>Record No.</u>	<u>Assessment Credit Requested</u>
MAD 7	57457	2 Years
MAD 8	57458	1 Year
MAD 9	57459	1 Year
MAD 10	57460	1 Year
MAD 11	57461	1 Year
MAD 12	57462	1 Year
MAD 13	57463	1 Year
MAD 14	57464	1 Year
MAD 15	57465	1 Year
MAD 16	57466	1 Year
		<hr/> 20 Years

2. Doe Group

The Doe Group is comprised of 79 Claims. They are as follows:

<u>Claim</u>	<u>Record Nos</u>	<u>Recorded Owner</u>	<u>Anniversary Date</u>
DOE 1-79	57543-57621	G.P.D. Co. of Can.Ltd	Nov 10/73

Assessment credit of \$5,000 is requested for geochemical work, linecutting and road improvement done on the property during the period June 23 to July 11. The claims for which assessment credit has been requested have been grouped in the following manner;

Group 1, comprised of Doe 5, 7,9,11,13,21-28, 58-61, 72-74 and 62-63., and Group 2, comprised of Doe 3, 17-20, 31-42, 50-52, 54-57 and 68-71.

Assessment credit on individual claims is requested as follows:

<u>Claim</u>	<u>Record Nos</u>	<u>Assessment Credit Requested</u>	<u>Total</u>
DOE 3	57545	1 year/claim	1 Year
DOE 5	57547	1 year/claim	1 Year
DOE 7	57549	1 year/claim	1 Year
DOE 9	57551	1 year/claim	1 Year
DOE 11	57553	1 year/claim	1 Year
DOE 13	57555	1 year/claim	1 Year

DOE 17-28	57559-57570	1 year/claim	12 Years
DOE 31-42	57573-57584	1 year/claim	12 Years
DOE 50-52	57592-57594	1 year/claim	3 Years
DOE 54-57	57596-57599	1 year/claim	4 Years
DOE 58-61	57600-57603	1 year/claim	4 Years
DOE 62	57604	1 year/claim	1 Year
DOE 63	57605	1 year/claim	1 Year
DOE 68-74	57610-57616	1 year/claim	7 Years

50 Years

3. Zula Group -

The Zula group is comprised of 30 mineral claims. They are as follows:

<u>Claim</u>	<u>Record Nos</u>	<u>Recorded Owner</u>	<u>Anniversary</u>
ZULA 1-12	57785-57796	G.P.D. Co. of Can. Ltd.,	December 5/73
ZULA 15-32	57797-57814	G.P.D. Co. of Can. Ltd.,	December 5/73

Assessment credit of \$800.00 is requested for linecutting and prospecting done on the property during the period June 15, 1973 to June 17, 1973.

Assessment credit on individual claims is requested as follows:

<u>Claim</u>	<u>Record Nos</u>	<u>Assessment Credit Requested</u>	<u>Total</u>
ZULA 3	57787	1 year/claim	1 Year
ZULA 5	57789	1 year/claim	1 Year
ZULA 7-10	57791-57794	1 year/claim	4 Years
ZULA 29	57811	1 year/claim	1 Year
ZULA 30	57812	1 year/claim	1 Year

8 Years

The total amount of the requested assessment credit and the total cost of the work completed on each claim group is as follows:

<u>Group</u>	<u>Assessment Credit Requested</u>	<u>Cost of Work Completed</u>
Mad Group	20 Years	\$2,000.00
Doe Group	50 Years	\$5,000.00
Zula Group	8 Years	\$ 800.00

This report with accompanying maps and statement of expenditures is hereby submitted to record the above assessment work.

II. INTRODUCTION

This report deals with the results obtained from work completed during the 1973 field season on the Mad, Doe and Zula groups of mineral claims. Work on these three groups was conducted during the period June 15, 1973 to July 11, 1973. All the claims are wholly owned by Great Plains Development Company of Canada, Ltd.

The program was designed to pick out areas of interest which could later be tested by more intensive methods.

III. LOCATION AND ACCESS

All three groups are accessible by road and lie within 2 ½ miles of each other as shown on the attached location map. The Mad and Doe groups are accessible via a logging road which branches eastward from the Merritt-Princeton (No.5) highway approximately four miles south of Aspen Grove. The Zula group is accessible via another logging road which is approximately eleven miles south of Aspen Grove and runs easterly past the north end of Missezula Lake, then south-easterly into the center of the group.

The three properties are roughly centered about 120°28' longitude and 49°50' latitude. The area is characterized by relatively low relief (~1000'), gently rolling plateau topography, medium to heavy forest cover and swamp in the flatter lying, poorly drained areas of the valley bottoms.

IV. ASSESSMENT WORK COMPLETED

1. Mad Group - Geochemical Work

Geochemical soil sampling was conducted over the whole area occupied by the claims in an effort to screen out areas worthy of further examination. Soil samples were collected by two-man crews on lines spaced 400 feet apart with a sample interval of 400 feet. Control was maintained by chain and compass methods.

Soil was collected from the "B" horizon where possible. Samples were removed from the ground with the aid of a mattock then transferred into kraft paper sample bags. After being tied and recorded the samples were shipped to Chemex Labs in Vancouver for assay for Cu, Pb and Zn. A total of 234 samples were collected from approximately 15.80 miles of line.

Generally, the soil was glacial fluvial in nature with poor soil development. Soil cover ranged from a few feet in areas of relatively high relief to thicknesses in excess of 30 feet in the valley bottoms. Geochemical results were found to be reliable in most areas except those containing swamps. Sampling was avoided in these areas.

Statistical treatment of the survey results gave bracketed values for background, threshold and anomalous as shown below:

	<u>Background</u>	<u>Threshold</u>	<u>Anomalous</u>
Cu	0-26 ppm	27-57 ppm	> 57 ppm
Pb	0-13 ppm	14-19 ppm	> 19 ppm
Zn	0-49 ppm	50-84 ppm	> 84 ppm

The procedure used for laboratory processing and analysis of the soil samples is as shown below:-

1. Samples are sorted, recorded and dried at 60°C.
2. Dried samples are sieved to -80 mesh fraction with a nylon and stainless steel sieve.
3. 0.5 gram of -80 mesh sample fraction is weighed into a test tube and digested with hot 70% perchloric and concentrated nitric acid. Samples are digested until all organic material is oxidized (approx. 4 hours).
4. Digested samples are diluted to 25 ml. volume with demineralized H₂O and mixed thoroughly. Solutions are settled until clear.
5. Copper is analyzed in aqueous solution with a Techtron A-A-5. Atomic Absorption Spectrometer - Detection limit in soils and stream sediments for Copper is 1 ppm and for Lead and Zinc is 2 ppm.

GEOCHEMICAL CONCLUSIONS AND RECOMMENDATIONS

Although the lead and zinc geochemistry was erratic and therefore not instructive, the copper geochemistry gave reasonably good correlation with a magnetic high found in the northern part of the grid. Three other anomalous areas in the southern part of the grid were also picked up; one (S.W. corner) corresponding to a high in zinc. Copper values were on the whole much lower than the background value usually found in Nicola volcanics (100-150 ppm). This could be a masking phenomenon due to the glacial nature of the soil cover. It is recommended that the follow-up geochemical soil sampling be done in the northern part of the grid to further define the anomalous zone.

GEOPHYSICAL WORK

A magnetometer survey was conducted on the claim group concurrently with the geochemical soil sampling as an aid to interpretation of and correlation with any interesting anomalous geochemistry and to delineate any structural features. The association of magnetic highs with magnetite concentrations and possible copper mineralization has been noted in previous exploration work done in the area (Nicola Volcanics) and therefore should bare close scrutiny as a possible ore guide.

The magnetometer survey consisted of thirteen lines. Each line was 3200 feet in length. Readings were taken every 400 feet along lines spaced 800 feet apart. A total of 117 readings were recorded.

The magnetometer used was a Geometrics portable proton magnetometer, model G-816. Readings varied from a low of 7420 gammas to a high of 9480 gammas, giving a total spread of 2060 gammas.

GEOPHYSICAL CONCLUSIONS AND RECOMMENDATIONS

Two areas with distinct magnetic character were found to exist on the property. The northern part of the grid displayed relatively high relief. An east-west cross-section of the anomalous area suggests the presence of a north-south trending fault linear. The anomalous area at the north end of the grid is ovoid in shape with the long axis trending north-south. Truncation of the anomaly at its northern and southern extremes would indicate some kind of causitive body has superimposed its magnetic signature on that of the fault. As stated previously, the anomaly is ovoid in plan and furthermore it is characterized by a core of relatively low amplitude flanked by an area of considerably higher amplitude. This suggests the presence of a small intrusive plug.

The southern part of the grid displays relatively low relief and low spatial frequencies indicating the possibility of a near surface intrusive body. (Okanagan Batholith?)

Due to the large grid spacing of the magnetic survey it is necessary to gain better resolution of the observed anomaly. Therefore, it is recommended that the northern part of the grid be filled in for this purpose.

2. Doe Group

a. Linecutting - Approximately 10.25 line miles of linecutting were completed on the property at a cost of \$120.00 per line mile. Four baselines comprised of three east-west lines and one north-south line were cut in order to give control to additional geochemical soil sampling which has not yet been initiated.

b. Road Repair - To gain access to the property it was necessary to upgrade and widen an already existing skid trail into the heart of the group, ending near the junction of Shrimpton and Leonard Creeks. Approximately six miles of road improvement was undertaken.

c. Geochemical Work - Geochemical soil sampling of the baselines was carried out in order to filter out anomalously high areas for immediate fill in geochemical soil sampling. Samples were removed from the ground with the aid of a mattocks then transferred into kraft paper sample bags. After being tied and recorded the samples were shipped to Chemex Labs in Vancouver for assay in Cu, Pb and Zn. A total of 88 samples were collected from 6.50 miles of line.

Statistical treatment of the survey results gave bracketed values for background, threshold and anomalous as shown below.

	<u>Background</u>	<u>Threshold</u>	<u>Anomalous</u>
Cu	0-29 ppm	30-31 ppm	> 31 ppm
Pb	0-7 ppm	8-13 ppm	> 13 ppm
Zn	0-71 ppm	72-124 ppm	>124 ppm

The procedures used for laboratory processing and analysis of the soil samples is as stated on page 6 of this report.

GEOCHEMICAL CONCLUSIONS AND RECOMMENDATIONS

Due to the large interval between samples and large spacing between lines, a true representation of the geochemistry cannot be gained. Therefore, any in depth interpretation of the existing data is impossible. Intervening factors such as lithologic changes and features secondary to the original environment may produce spurious anomalies which are not related to mineralized zones. These problems can only be resolved by initiation of more detailed studies. For a proper evaluation of the property it is recommended that fill-in geochemical sampling supplemented by geophysical surveying be initiated.

3. Zula Group

a. Linecutting - Approximately 4.20 line miles of linecutting was completed to facilitate control on a proposed program of geochemical soil sampling and geophysical surveying, which has not yet been undertaken. A total of three base lines were cut; two east-west baselines and a north-south baseline as shown on the attached grid location map. No other work as yet has been done on the property.

CONCLUSIONS AND RECOMMENDATIONS

At present nothing is known of the mineral potential of this claim group. It is therefore recommended that an evaluation program be designed and carried out to assess the properties' economic worth.

APPENDIX I

GEOCHEMICAL RESULTS

DOE GROUP - MAD GROUP



CHEMEX LABS LTD.

APPENDIX NO. 1 GEOCHEMICAL RESULTS
 DOE GROUP - PAGE 1
 212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA
 TELEPHONE: 985-0648
 AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Great Plains Development Co. of Can. Ltd.,
 Minerals Department
 736 8th Avenue SW
 Calgary, Alberta

ATTN: Proj. E-3320

CERTIFICATE NO. 25177
 INVOICE NO. 9654
 RECEIVED July 12/73
 ANALYSED July 17/73

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead	PPM Zinc
BL 00 0+00E	56	< 1	14	70
4	30	< 1	8	80
8	14	< 1	4	75
12	16	< 1	6	45
16	34	< 1	16	75
20	15	< 1	8	36
24	14	< 1	6	47
28	15	< 1	6	43
32	19	< 1	4	39
36	18	< 1	6	67
40	19	< 1	6	67
44	19	< 1	8	47
48	14	< 1	10	65
52	16	< 1	6	55
56	16	< 1	8	60
60	20	< 1	8	75
64	20	< 1	8	65
68	20	< 1	6	50
72	78	< 1	6	28
BL 00 74E	18	< 1	12	52
BL 00 4W	12	< 1	10	30
8	30	< 1	6	52
12	15	< 1	10	39
16	8	< 1	8	45
20	16	< 1	4	70
24	13	< 1	6	55
28	11	< 1	8	60
BL 00 32W	70	< 1	8	108
BL 0+00 17S	21	< 1	16	123
20	19	< 1	8	70
24	27	< 1	4	39
27	24	< 1	8	47
32	7	< 1	10	92
36	16	< 1	9	95
39	11	< 1	8	62
44	23	< 1	10	55
48	18	< 1	8	83
52	22	< 1	10	135
56	14	< 1	8	120
BL 0+00 60C	42	< 1	6	127
Std.	48	27	50	131



MEMBER
 CANADIAN TESTING
 ASSOCIATION

CERTIFIED BY:

B. J. Swaites

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985 0648
AREA CODE: 604



CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Great Plains Development Co. of Can. Ltd.,
Minerals Department
736 8th Avenue SW
Calgary, Alberta

ATTN: Proj. E-3320

CERTIFICATE NO. 25178
INVOICE NO. 9654
RECEIVED July 17/73
ANALYSED July 17/73

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead	PPM Zinc
BL 0+00 68S	14	< 1	8	127
BL 0+00 72S	29	< 1	4	55
BL 14S 4E	66	< 1	12	115
8	70	< 1	8	62
12	31	< 1	6	83
16	82	< 1	10	83
20	100	< 1	8	105
24	40	< 1	10	75
28	13	< 1	6	57
32	16	< 1	6	86
36	34	< 1	10	72
BL 14S 4OE	18	< 1	8	60
BL 14S 0+00	16	< 1	18	83
BL 14S 4W	58	< 1	14	65
8	18	< 1	6	70
12	20	< 1	8	105
16	14	< 1	8	102
20	10	< 1	6	80
24	20	< 1	8	72
28	10	< 1	8	52
32	22	< 1	6	39
36	28	< 1	10	52
40	23	< 1	8	65
44	18	< 1	8	50
48	24	< 1	6	86
52	24	< 1	8	60
56	26	< 1	10	65
BL 14S 60W	22	< 1	8	75
BL 44S 4E	16	< 1	8	60
8	36	< 1	12	62
12	17	< 1	4	120
16	26	< 1	8	55
20	68	< 1	6	102
24	14	< 1	6	57
28	5	< 1	2	36
32	5	< 1	4	57
36	10	< 1	6	50
40	12	< 1	6	43
44	11	< 1	2	75
BL 44S 4OE	14	< 1	6	95
Std.	27	27	50	127



MEMBER
CANADIAN ASSOCIATION OF ANALYTICAL CHEMISTS

CERTIFIED BY

R. L. Swales



CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Great Plains Development Co. of Can. Ltd.,
 Minerals Department
 736 8th Avenue SW
 Calgary, Alberta

Proj. E-3320

CERTIFICATE NO.

INVOICE NO.

RECEIVED July 12/73

ANALYSED July 17/73

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead	PPM Zinc
BL 44S 52E	12	<1	8	169
56	12	<1	4	72
60	17	<1	8	120
64	13	<1	6	72
68	6	<1	6	52
BL 44S 72E	22	<1	12	65
7	24	<1	12	95



MEMBER
 CANADIAN TESTING
 ASSOCIATION

CERTIFIED BY:

B. Swaiter



CHEMEX LABS LTD.

APPENDIX NO. 1 - GEOCHEMICAL RESULTS
 Page 1
 112 BROOKSBANK AVE. MAD GROUP
 NORTH VANCOUVER, B.C.
 CANADA
 TELEPHONE: 985 0648
 AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Great Plains Development Co. of Can. Ltd.,
 Minerals Dept.,
 736 - 8 Ave. S.W.,
 Calgary, Alberta

CERTIFICATE NO. 24771
 INVOICE NO. 9470
 RECEIVED June 25/73
 ANALYSED June 29/73

ATTN: cc:Merritt, B.C. Proj. E-3320 (Mad Gr.)

SAMPLE NO. :	PPM Copper	PPM Lead	PPM Zinc
4N 0+0	19	11	52
4N 4E	26	12	75
8	23	15	77
12	25	14	95
4N 16E	32	15	60
4N 4W	30	15	50
8	26	14	50
12	31	14	60
4N 16W	19	13	55
8NB 0+0	128	14	25
8N 4E	22	13	47
8	20	14	39
12	31	16	62
8N 16E	21	15	55
8N 4W	57	14	55
8	29	12	41
12	25	12	67
8N 16W	19	10	62
12NBLO+0C	16	13	45
4E	280	17	14
8	28	13	62
12	24	15	72
12N 16E	19	15	41
12N 4W	24	17	45
8	18	14	32
12	62	21	57
12N 16W	43	16	41
16NBLO+0	12	14	25
16N 4E	64	16	32
8	30	18	62
12	19	12	34
16N 16E	23	14	32
16N 4W	16	14	45
8	17	14	55
12	18	14	28
16N 16W	13	16	11
20NBLO0	22	12	62
20N4+50E	26	14	39
Std.	46	50	127



MEMBER
 CANADIAN TESTING
 ASSOCIATION

CERTIFIED BY: *[Signature]*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA
 TELEPHONE: 985-0648
 AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 24772

TO: Great Plains Development Co. of Can. Ltd.,
 Minerals Dept.,
 736 - 8 Ave. S.W.,
 Calgary, Alberta

INVOICE NO. 9470

RECEIVED June 25/73

ATTN: cc:Merritt, B.C. Proj. E-3320 (Mad Gr.)

ANALYSED June 29/73

SAMPLE NO. :	PPM Copper	PPM Lead	PPM Zinc
20N 8E	21	12	52
12	24	14	65
20N 16E	25	16	65
20N 4W	18	15	60
8	26	16	67
12	22	16	39
20N 16W	19	15	39
24N BLO+00	22	13	55
24N 4+50E	62	16	50
8	17	12	62
12	22	13	50
24N 16E	22	13	60
24N 4W	21	16	77
8	12	13	36
12	20	14	25
24N 16W	17	15	47
27N BLO+00	19	11	55
4E	16	10	24
8	14	11	47
12	12	11	32
27N 16E	13	9	13
27N 4W	17	15	45
8	82	22	50
12	24	15	80
27N 16W	18	14	52
30N BLO+00	24	15	45
6E	17	12	41
8	25	14	39
12	18	12	39
30N 16E	14	12	47
30N 4W	21	13	41
8	16	14	52
12	23	16	55
30N 16W	15	14	45
BL 0+00	26	16	67
0S 4E	21	15	60
8	28	18	70
12	17	15	50
0S 16E	18	14	43
0S 4W	19	13	41
Std.	44	50	131



MEMBER

CERTIFIED BY

[Handwritten signature]



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
 NORTH VANCOUVER, B.C.
 CANADA
 TELEPHONE: 985-0648
 AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Great Plains Dev. Co. of Can. Ltd.,
 Minerals Dept.,
 736 - 8 Ave. S.W.,
 Calgary, Alberta

CERTIFICATE NO. 24773
 INVOICE NO. 9470
 RECEIVED June 25/73
 ANALYSED June 29/73

ATTN: cc:Herritt, B.C. Proj. E-3320 (Mad Gr.)

SAMPLE NO. :	PPM Copper	PPM Lead	PPM Zinc
0S 8W	64	19	50
12	22	15	57
0S 16W	20	13	65
4S BL	19	14	50
4E	22	14	57
8	26	20	67
12	15	14	43
4S 16E	23	13	60
4S 4W	19	13	47
8	22	15	36
12	30	15	75
4S 16W	20	14	60
8S 4E	23	14	52
8	29	16	34
12	21	14	47
8S 16E	20	14	55
8S 0W	30	16	57
4	23	13	45
8	21	14	34
12	14	14	41
8S 16W	29	14	52
12S 0+00	24	16	57
4E	18	15	55
8	26	15	55
12	40	17	65
12S 16E	30	13	86
12S 4W	31	17	36
8	22	14	60
12	27	16	62
12S 16W	25	14	57
16S 0+00	28	17	75
4E	23	14	39
8	27	13	55
11+60	21	12	55
16S 16E	21	13	75
16S 4W	32	13	45
8	23	12	62
12	26	14	62
16S 16W	26	14	39
20S 4E	31	15	55
Std.	46	50	131



MEMBER
 CANADIAN TESTING
 ASSOCIATION

CERTIFIED BY: *[Signature]*



CHEMEX LABS LTD.

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985-0648
AREA CODE: 604

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

TO: Great Plains Dev. Co. of Can. Lt.,
Minerals Dept.,
736 - 8 Ave. S.W.,
Calgary, Alberta

CERTIFICATE NO. 24774
INVOICE NO. 9470
RECEIVED June 25/73
ANALYSED June 29/73

ATTN: cc:Merritt, B.C. Proj. E-3320 (Mad Gr.)

SAMPLE NO. :	PPM Copper	PPM Lead	PPM Zinc
20S 8E	14	10	41
12	17	10	34
20S 16E	18	13	30
20S 4W	22	13	50
8	30	16	55
12	19	15	43
20S 16W	38	17	39
24S BLOO	22	14	47
4E	23	14	32
8	16	13	34
12	28	14	55
24S 14+60E	17	14	34
24S 4W	26	17	50
8	25	15	50
12	54	18	55
24S 16W	23	15	60
28S BLOO	27	14	55
28S 4E	24	16	43
28S 5E	18	14	28
28S 4W	24	15	32
8	12	23	24
12	27	17	57
28S 16W	25	15	32
32S BLOO	20	12	31
32S 1+80E	29	14	25
32S 5W	24	13	28
8	26	13	50
12	20	12	50
32S 16W	24	12	67
36S BLOO	29	33	16
36S 12E	39	17	11
36S 16E	12	15	7
36S 4W	20	13	41
8	28	12	52
12	21	11	41
36S 16W	23	11	83
40S 4E	18	11	55
8	116	21	75
12	26	14	50
40S 16E	25	12	50
Std.	48	50	131



MEMBER
CANADIAN TESTING
ASSOCIATION

CERTIFIED BY: *[Signature]*

212 BROOKSBANK AVE.
NORTH VANCOUVER, B.C.
CANADA
TELEPHONE: 985 0048
AREA CODE: 604



CHEMEX LABS LTD.

• ANALYTICAL CHEMISTS • GEOCHEMISTS • REGISTERED ASSAYERS

CERTIFICATE OF ANALYSIS

CERTIFICATE NO. 24775

TO: Great Plains Development Co. of Can. Ltd.,
Minerals Department
736 5th Avenue SW
Calgary, Alberta

INVOICE NO. 9470

RECEIVED July 15/73

ATTN: Proj. E-3320

ANALYSED July 17/73

SAMPLE NO. :	PPM Copper	PPM Molybdenum	PPM Lead	PPM Zinc
40S 4W	17		12	34
8	21		12	52
12	29		11	50
40S 16W	29		12	83
BL 44S 00(A)	16	<1	6	60
44S 4E	19	<1	8	39
8	19	<1	6	60
12	107	<1	12	50
44S 16E	26	<1	10	60
44S 4W	54	<1	8	25
8	76	<1	12	70
48S BL 00 (A)	73	<1	14	83
48S 4E	17	<1	8	28
8	28	<1	14	32
12	26	<1	8	45
48S 16E	40	<1	16	70
48S 4W	47	<1	6	28
8	18	<1	8	50
12	24	<1	8	62
48S 16W	44	<1	10	52
52S 0+00	21	<1	8	47
52S 4E	36	<1	12	41
8	27	<1	8	60
12	27	<1	12	72
14	36	<1	16	86
52S 16E	37	<1	10	57
52S 4W	23	<1	8	41
8	17	<1	6	34
12	38	<1	8	52
52S 16W	16	<1	8	57
56S BL00	26		10	57
56S 4E	23		11	41
8	27		13	62
12	40		11	67
56S 16E	17		9	55
56S 4W	18		12	34
8	20		15	41
12	37		15	70
56S 16W	39		12	80
60S BL00	26		13	55



MEMBER
CANADA'S TESTING LABORATORIES

CERTIFIED BY:

B. L. Swartz

QUALIFICATIONS OF VERN K. READ

I, Vern K. Read, with business address in Calgary, Alberta, do certify that:

1. I am a geophysicist employed with Great Plains Development Company of Canada, Ltd.
2. I am a graduate of the University of British Columbia (B.Sc - Geophysics 1973)
3. I have been engaged in all facets of mineral exploration since 1967, and have worked extensively in British Columbia.
4. I personally supervised all work done on the three properties.

Respectfully submitted,

A handwritten signature in cursive script that reads "V. K. Read". The signature is written in dark ink and is positioned below the typed name "Vern K. Read".

APPENDIX II
CERTIFICATES

APPENDIX III-A
MAD GROUP
STATEMENT OF EXPENDITURES

GEOCHEMICAL AND GEOPHYSICAL SURVEYS

SALARIES

V.K. Read	5 days @ \$35/day	\$ 175.00
R. Scott	5 days @ \$35/day	\$ 175.00
D. Blackadar	5 days @ \$35/day	\$ 175.00
R. Visagie	3 days @ \$35/day	\$ 105.00
B. Edmonson	3 days @ \$35/day	\$ 105.00
M. McClaren	2 days @ \$35/day	\$ 70.00

Domicile \$ 350.00

TRANSPORTATION

Truck	5 days @ \$20/day	\$ 100.00
Mobilization and Demobilization		\$ 50.00

LINECUTTING 1.85 line miles
@ \$120/line mile \$ 222.00

EQUIPMENT \$ 60.00

REPORT WRITING AND DRAFTING \$ 80.00

ASSAYS 224 @ \$1.70/sample \$ 380.80

\$2,047.80
=====

APPENDIX III-B
DOE GROUP
STATEMENT OF EXPENDITURES

GEOCHEMICAL SURVEY

SALARIES

V.K. Read	19 days @ \$35/day	\$ 665.00
R. Scott	19 days @ \$35/day	\$ 665.00
D. Blackadar	3 days @ \$35/day	\$ 105.00
M. McClaren	4 days @ \$35/day	\$ 140.00

SUPERVISION

M.D. McInnis	2 days @ \$65/day	\$ 130.00
--------------	-------------------	-----------

DOMICILE

\$ 730.00

TRANSPORTATION

Truck	19 days @ \$20/day	\$ 380.00
Mobilization & Demobilization		\$ 150.00

ROAD IMPROVEMENT

Pooley Bros. Const. Merritt B.C.		\$ 397.00
-------------------------------------	--	-----------

EQUIPMENT

\$ 240.00

LINECUTTING

10.25 line miles @ \$120/mile		\$1,230.00
----------------------------------	--	------------

DRAFTING AND REPORT WRITING

\$ 60.00

ASSAYS

88 samples @ \$1.70/sample		\$ 150.00
----------------------------	--	-----------

\$5,042.00
=====

NOTE:

Assessment costs as applied to Groups 1 and 2 of the Doe Mineral claims have been pro-rated.

APPENDIX 111-C
ZULA GROUP
STATEMENT OF EXPENDITURES

ASSESSMENT WORK

SALARIES

V.K. Read

(Supervision)

3 days @ \$35/day

\$ 105.00

DOMICILE

\$ 90.00

TRANSPORTATION

Truck

3 days @ \$20/day

\$ 60.00

LINECUTTING

4.20 miles

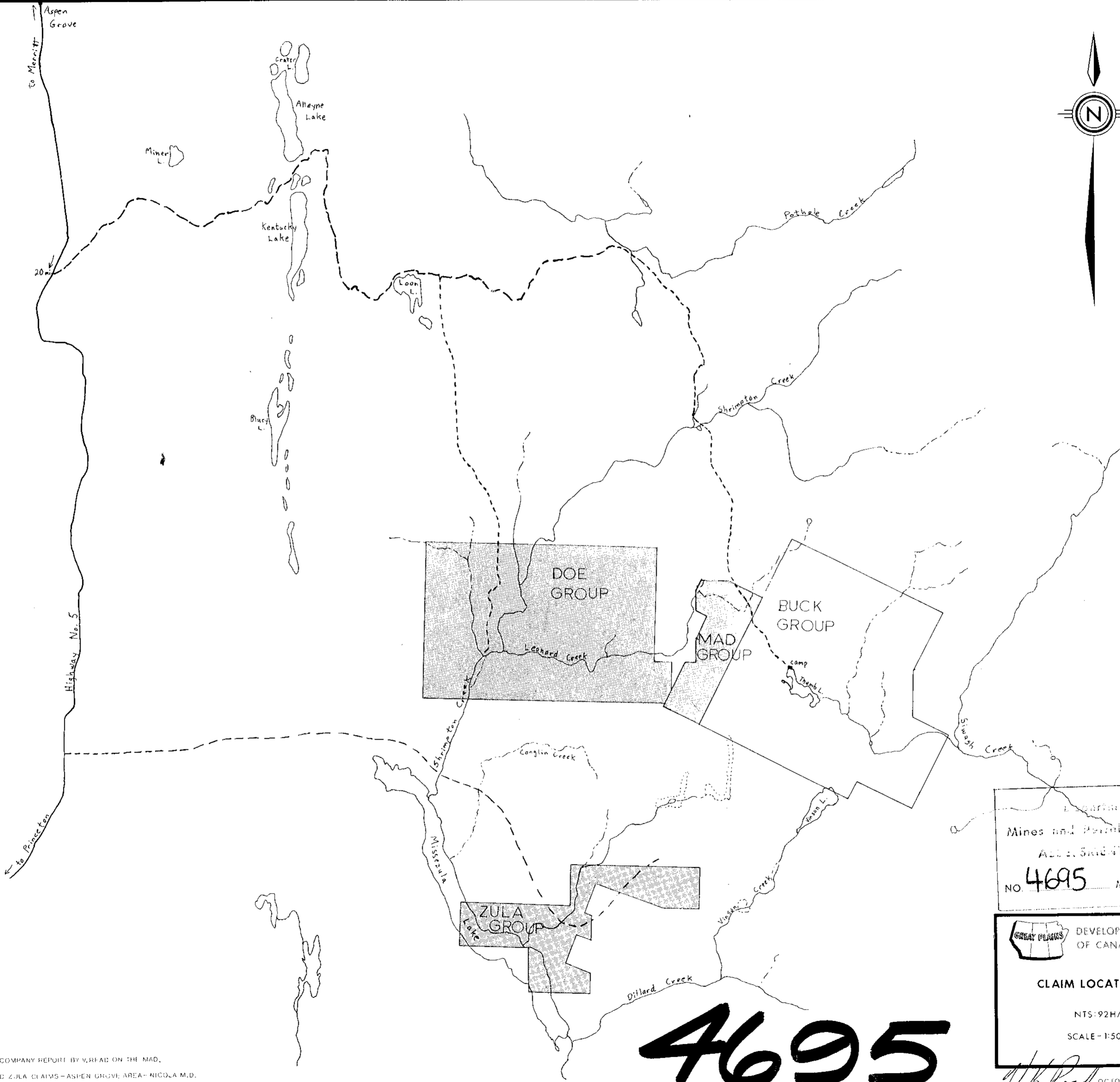
@ \$120.00/mile

\$ 504.00


DRAFTING AND REPORT WRITING

\$ 50.00

\$ 809.00
=====



Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4695 MAP #1

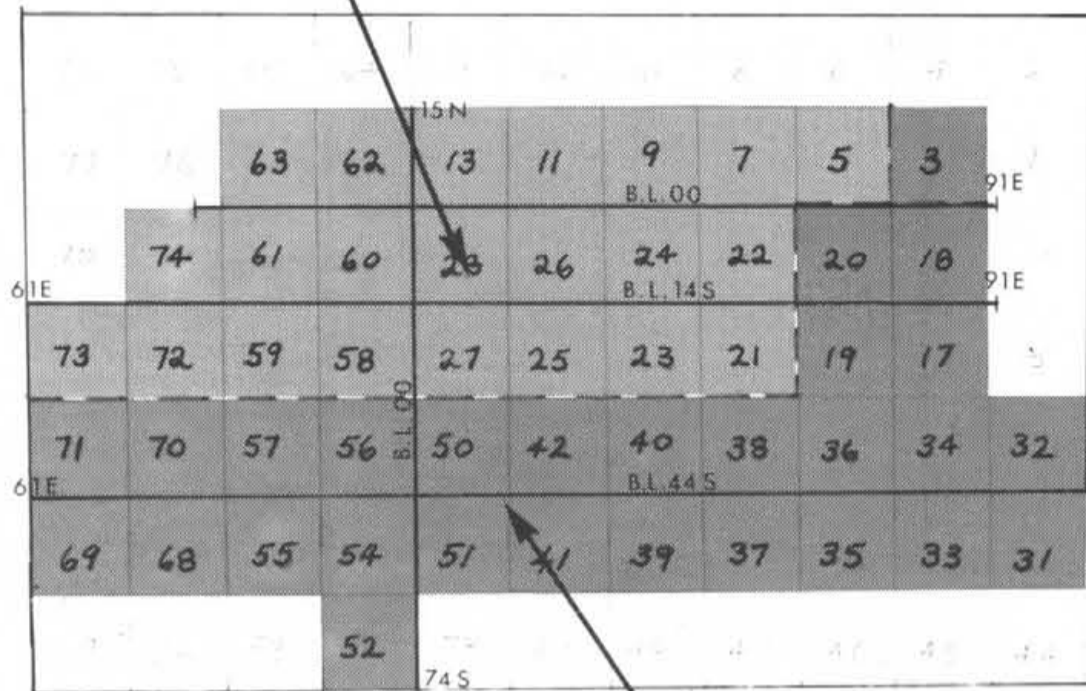
 DEVELOPMENT COMPANY
OF CANADA, LTD.
CLAIM LOCATION MAP
NTS: 92H/16
SCALE: 1:50,000

4695
M1

W.K. Road OCTOBER, 1971

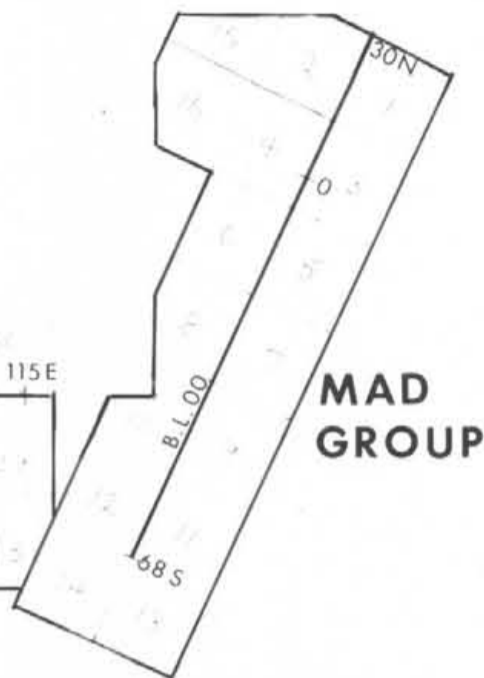
TO ACCOMPANY REPORT BY V, READ ON THE MAD,
DOE AND ZULA CLAIMS - ASPEN GROVE AREA - NICOLA M.D.

GROUP-1

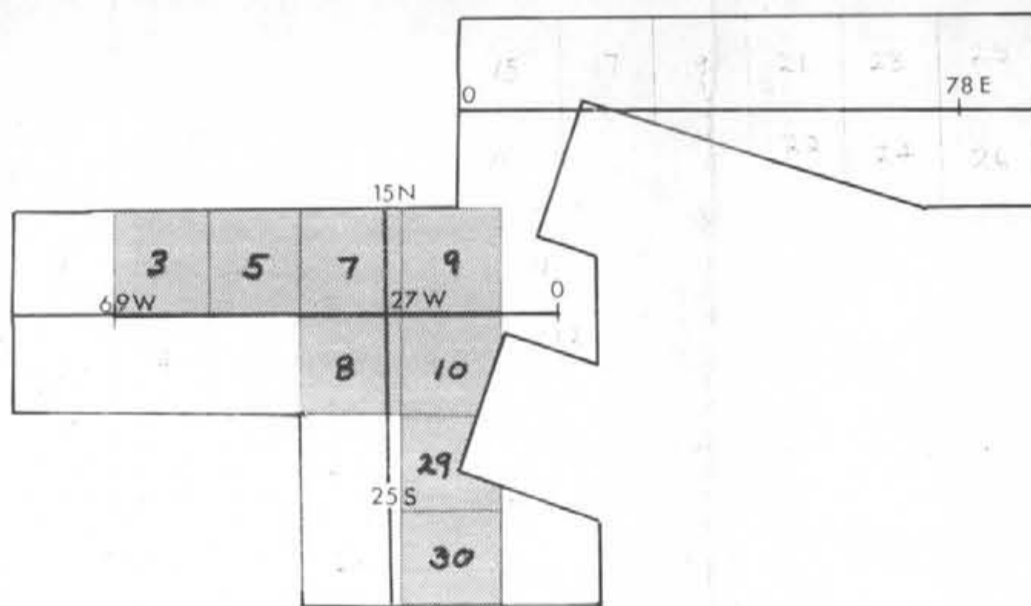


DOE GROUP

GROUP-2



MAD GROUP



ZULA GROUP

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **4695** MAP **#2**

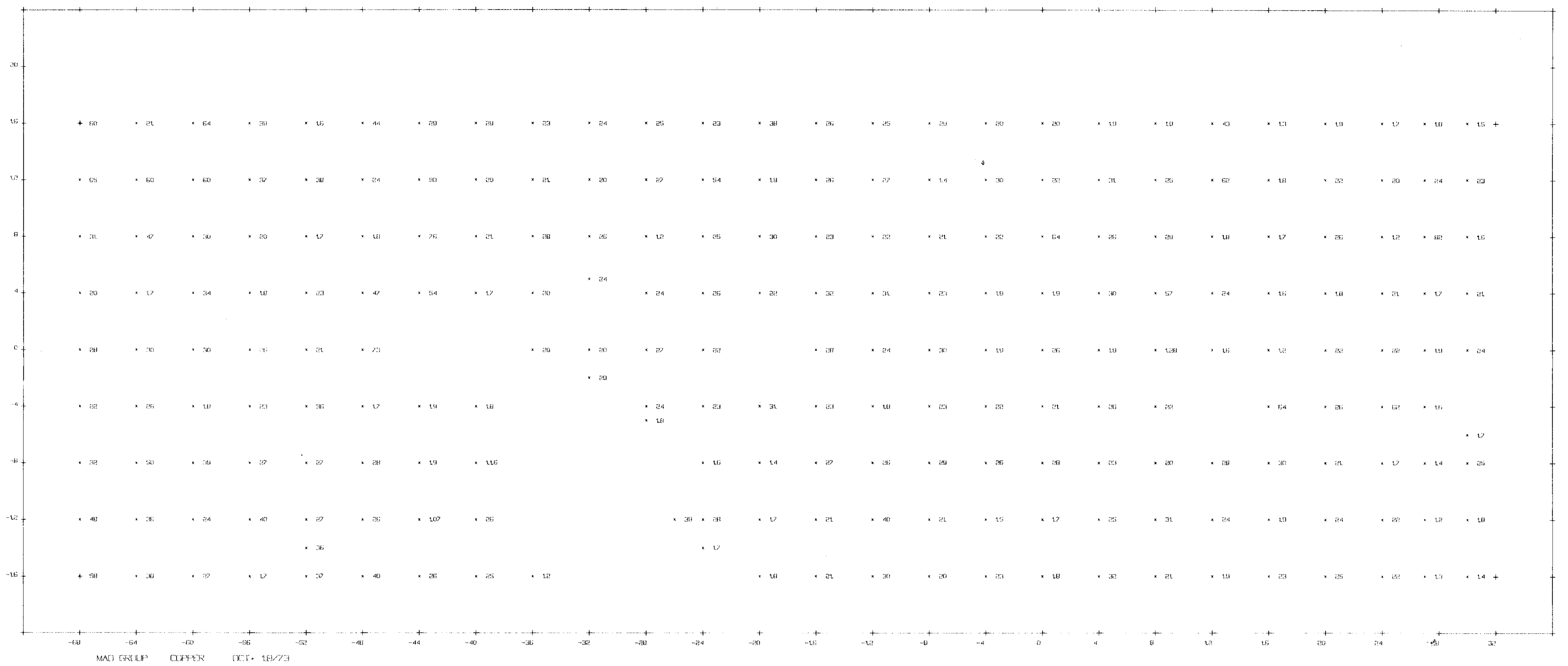
GREAT PLAINS DEVELOPMENT COMPANY
OF CANADA, LTD
GRID LOCATION MAP
NTS: 92H/16
SCALE - 1IN. = 3,000 FT.

V. K. Read

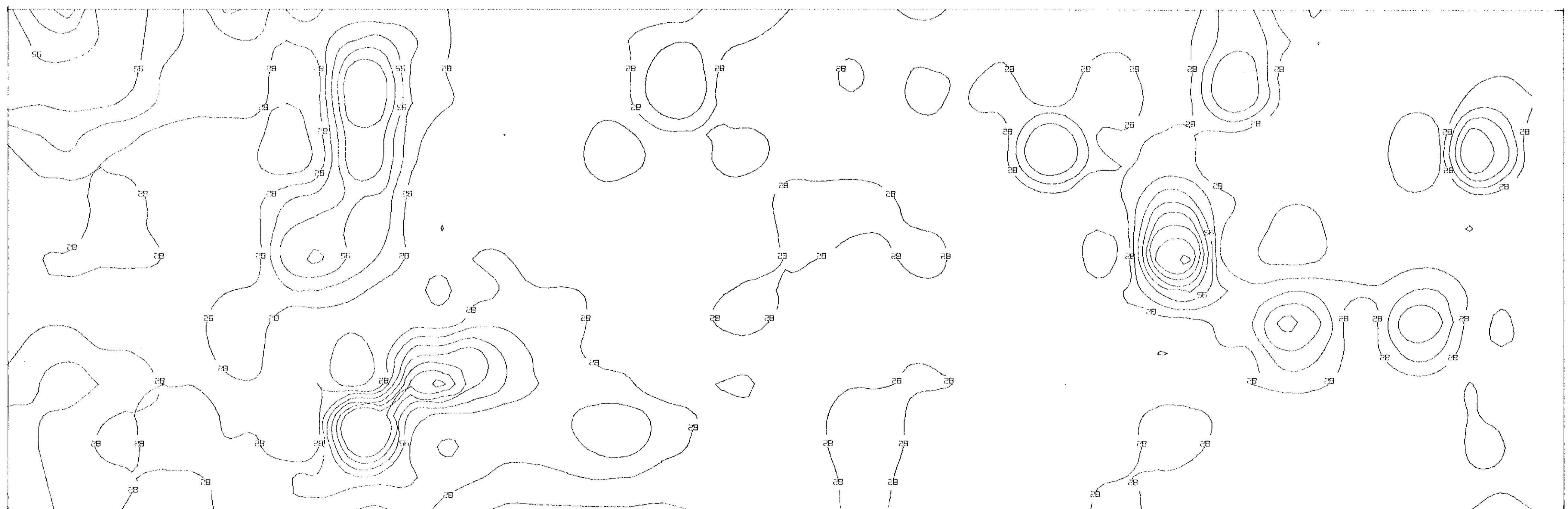
OCTOBER, 1971

TO ACCOMPANY REPORT BY V. READ ON THE MAD,
DOE AND ZULA CLAIMS - HIRSHEN GROVE AREA - SHEILA M.D.

4695-M2

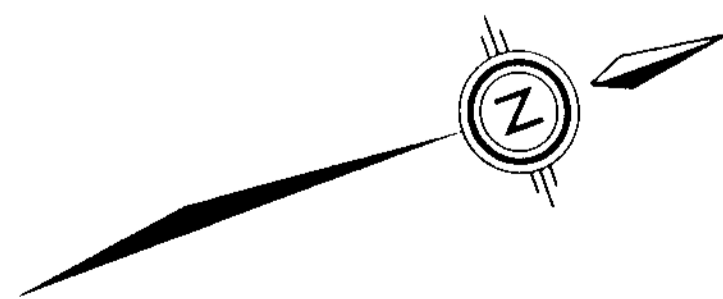



a. Station values



b. Contoured results - C.I. = 14 PPM

- BACKGROUND 0-26 PPM
- THRESHOLD 27-57 PPM
- ANOMALOUS > 57 PPM



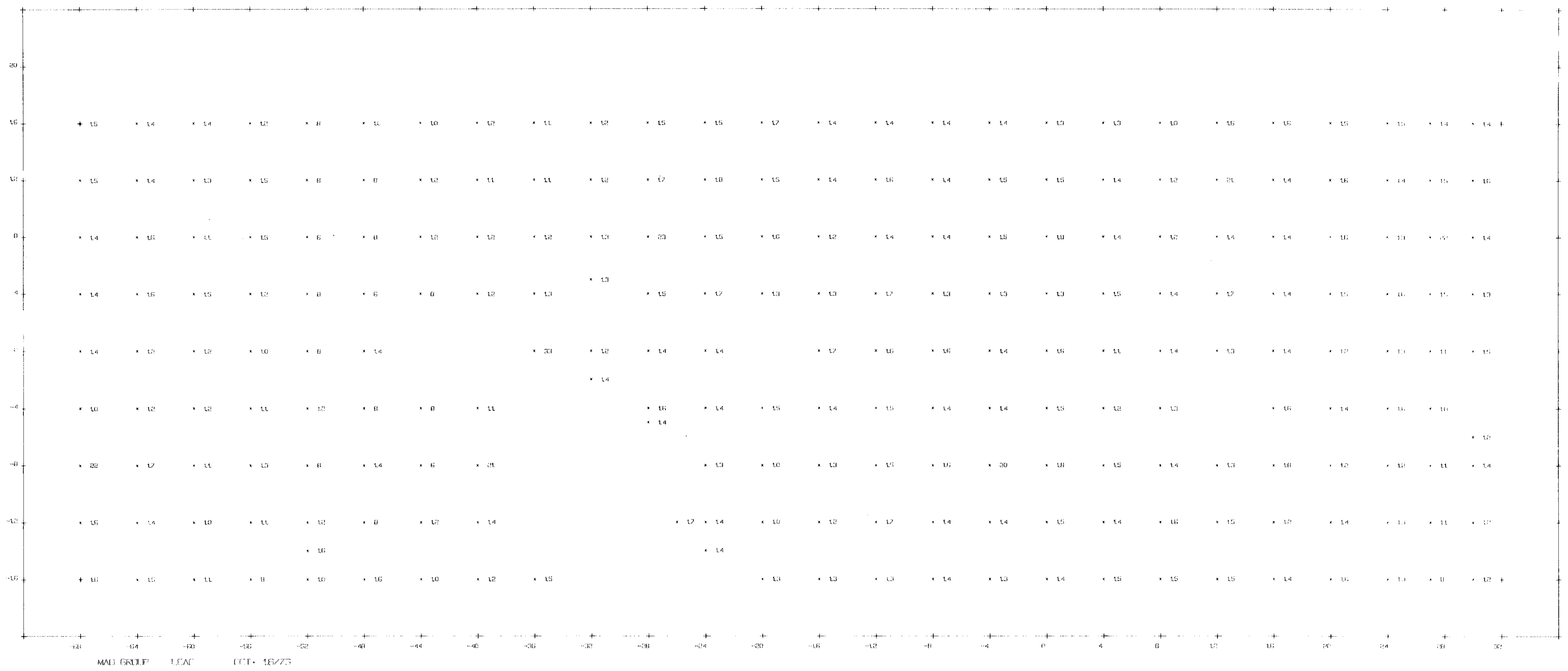

 DEVELOPMENT COMPANY OF CANADA, M.T.S. Department of Energy, Mines and Technical Surveys
 BRITISH COLUMBIA
 MAD MINERAL CLAIMS No. 4695 #3
COPPER GEOCHEMISTRY

400 200 0 400 800
FEET

NICOLA M. D. NTS-92H/16
V. READ OCTOBER 1973

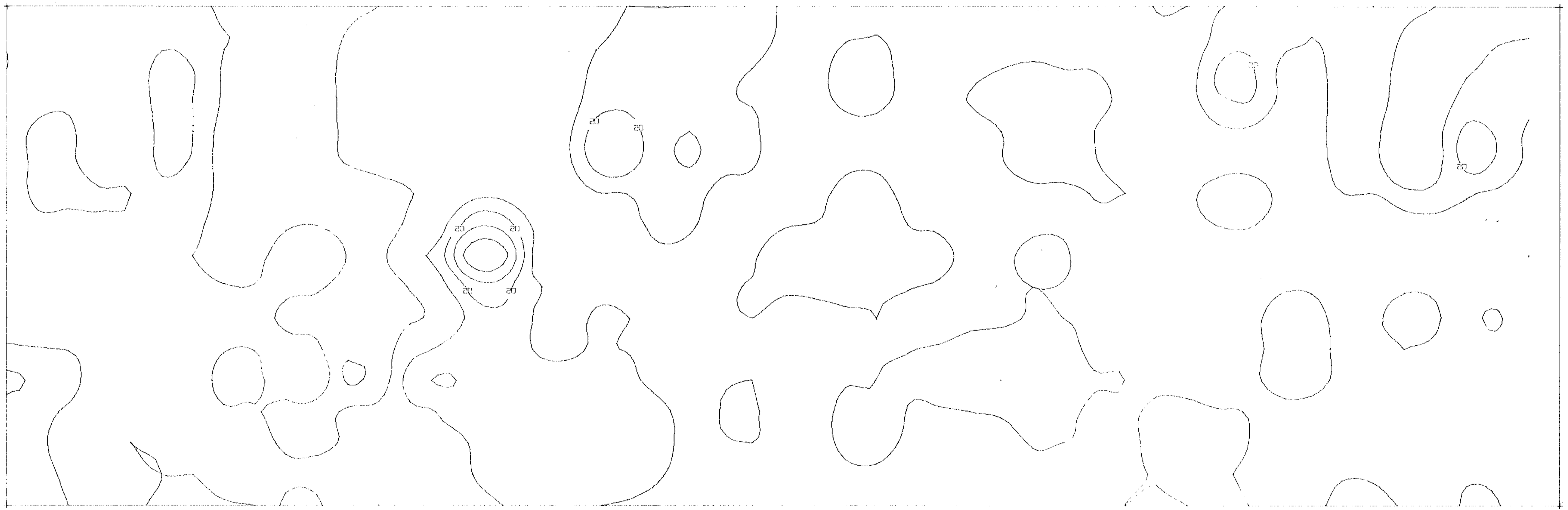
4695

N.M.D. V. Read M3



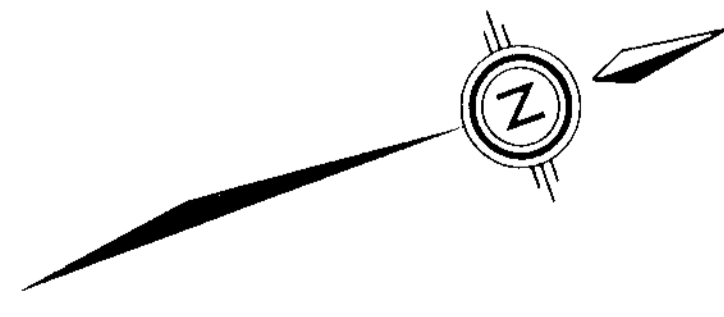
MAD GROUP LEAD OCT. 1973


a. Station values



b. Contoured results - C.I. = 10 PPM

- BACKGROUND 0 - 13 PPM
- THRESHOLD 14 - 19 PPM
- ANOMALOUS > 19 PPM



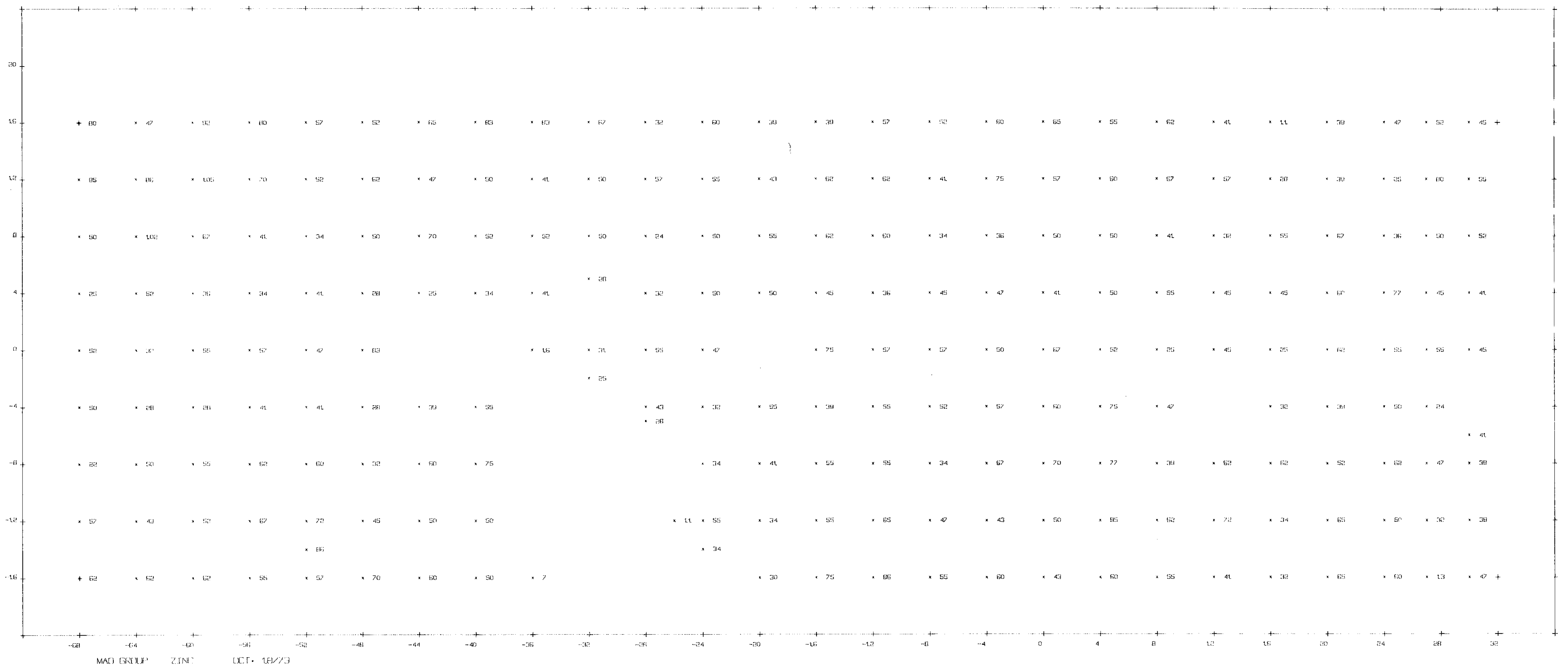

DEPARTMENT OF ENERGY, MINES AND TECHNICAL SURVEYS
 OF CANADA
 BRITISH COLUMBIA
MAD MINERAL CLAIMS 4695 #4
LEAD GEOCHEMISTRY



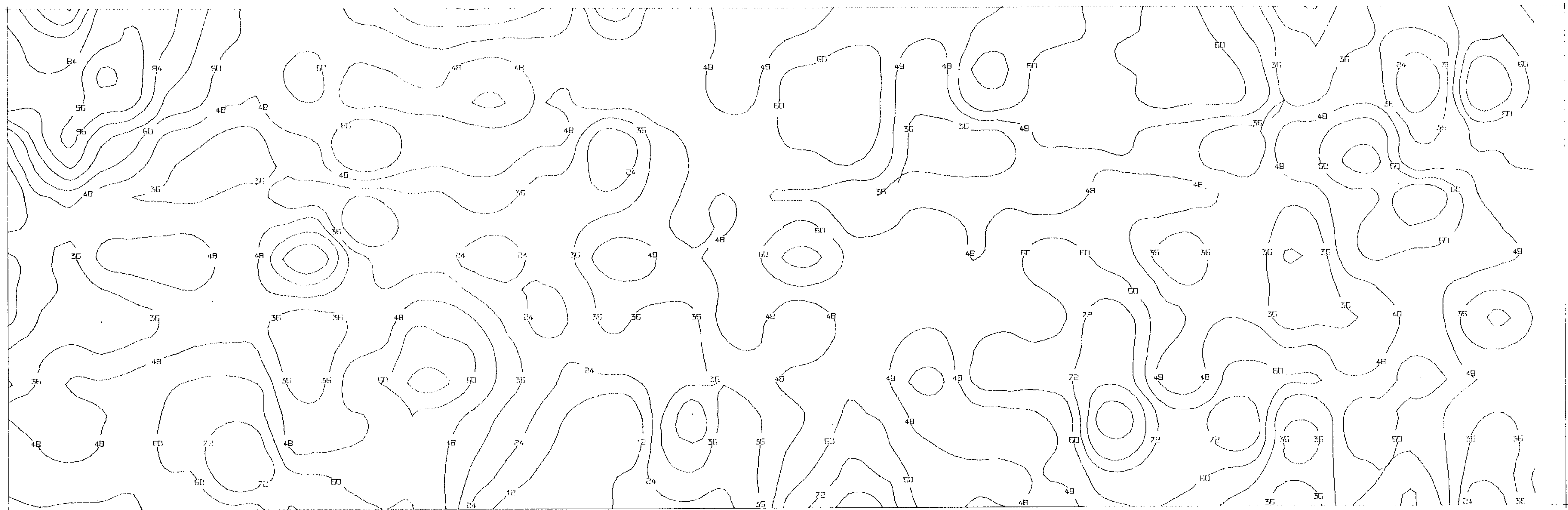
NICOLA M.D.
 NTS: 92H/16
 OCTOBER, 1973

4695-174

© Crown Copyright, 1973. All rights reserved. Reproduction of this report is prohibited without the written permission of the Minister of Energy, Mines and Technical Surveys.

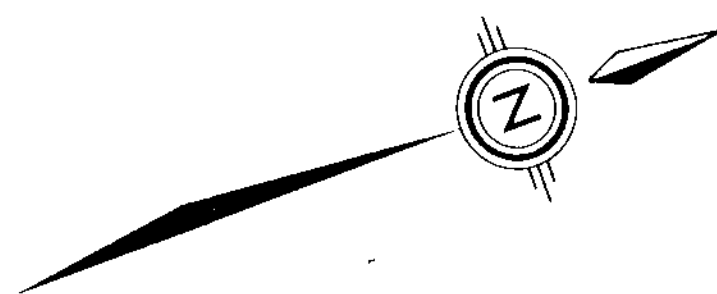


a. Station values



b. Contoured results — C.I. = 12 PPM

- BACKGROUND 0-49 PPM
- THRESHOLD 50-84 PPM
- ANOMALOUS > 84 PPM



Department of
DEVELOPMENT COMPANY
OF CANADA, LTD Mines and Petroleum Resources
 BRITISH COLUMBIA
MAD MINERAL CLAIMS ASSESSMENT REPORT
 NO. 4695 #5

ZINC GEOCHEMISTRY



NICOLA M. D.

NTS: 92H/16

OCTOBER, 1973

4695-M5

Department of
Mines and Technical Resources
Assessment Report
NO. 4695 MAP #6

 DEVELOPMENT COMPANY
OF CANADA, LTD.
BRITISH COLUMBIA
DOE MINERAL CLAIMS

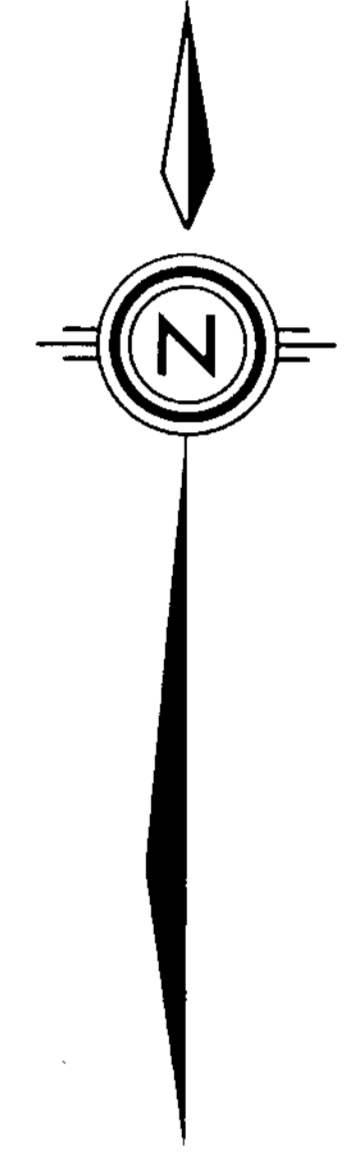
COPPER GEOCHEMISTRY
(STATION VALUES)



NICOLA M.D. NTS: 92H/16
V. READ OCTOBER, 1973

V. Read

BACKGROUND 0-29 PPM
THRESHOLD 30-31 PPM
ANOMALOUS > 31 PPM



4695
M6



THIS DOCUMENT IS UNCLASSIFIED BY 6880 IN THE
EAGLE AND 21A CLAIMS - ACRIY (SHE AREA) - 10/14/01

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4695 #7



DEVELOPMENT COMPANY
OF CANADA, LTD.

BRITISH COLUMBIA

DOE MINERAL CLAIMS

LEAD GEOCHEMISTRY
(STATION VALUES)



NICOLA M.D.

HIS-92H/16

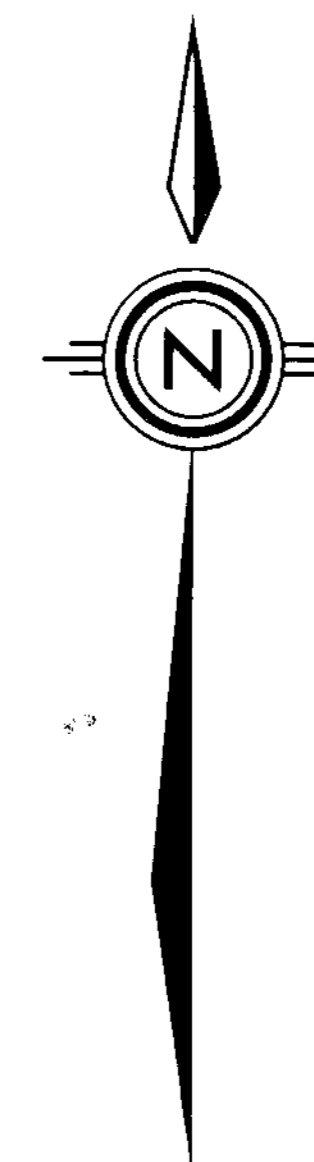
V. READ

OCTOBER 1973

BACKGROUND 0-7 PPM

THRESHOLD 8-13 PPM

ANOMALOUS > 13 PPM



4695

177

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 4695 MAP #8

 DEVELOPMENT COMPANY
OF CANADA, LTD.
BRITISH COLUMBIA
DOE MINERAL CLAIMS

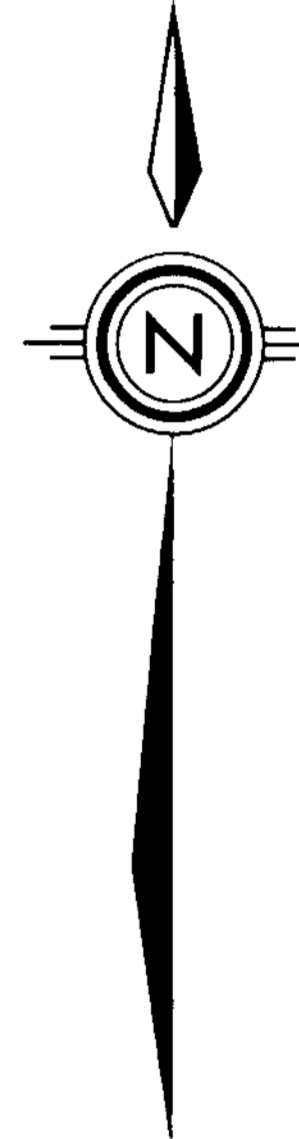
ZINC GEOCHEMISTRY
(STATION VALUES)



NICOLA M.D. NIS 92H/16
V. READ OCTOBER 1973

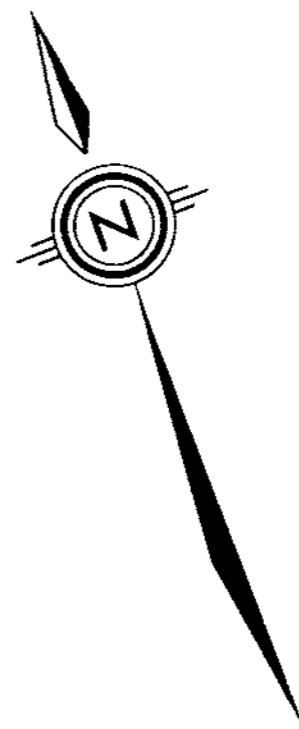
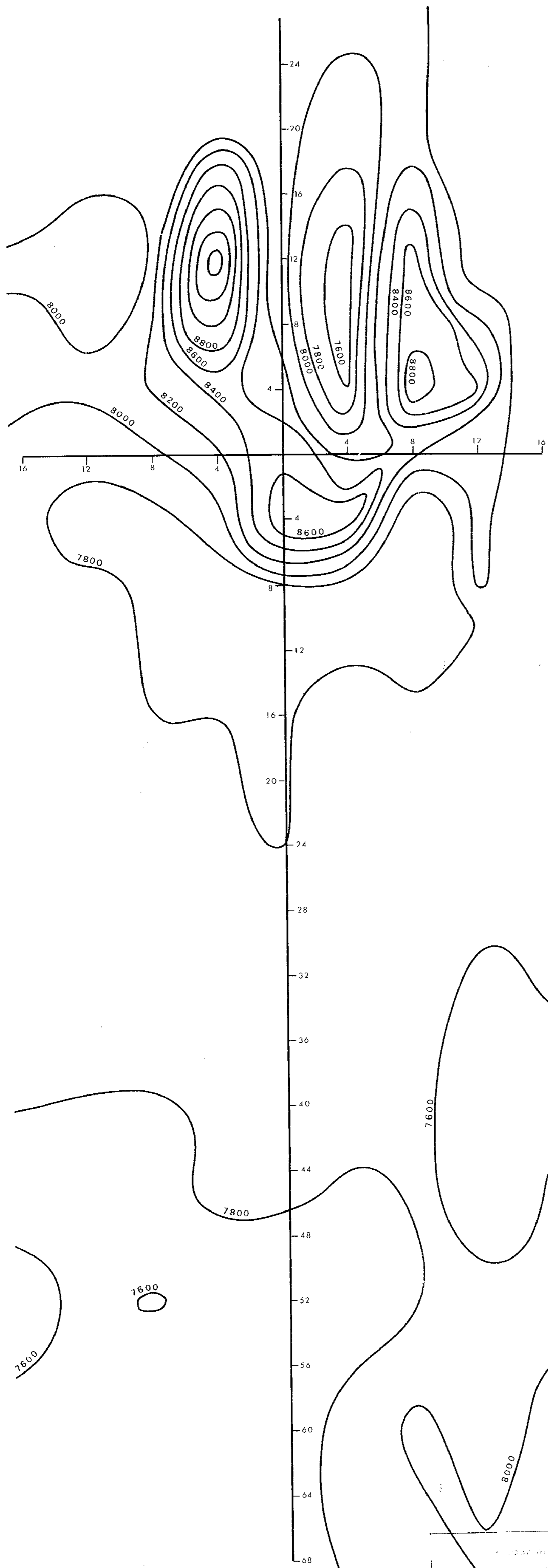
V. Read

BACKGROUND 0-71 PPM
THRESHOLD 72-124 PPM
ANOMALOUS >124 PPM



4695
M8

TO ACCOMPANY REPORT BY V. READ ON THE
MAD, DOE AND ZALA CLAIMS - ASSESSMENT AREA - DOE M.D.



GREAT PLAINS DEVELOPMENT
 COMPANY OF CANADA, LTD.

MAD MINERAL CLAIMS
 NICOLA MINING DIVISION - ASPEN GROVE AREA
 92 H/16

MAGNETOMETER SURVEY
 (CONTOURED)

SCALE: 1 INCH = 400 FEET C.I. = 200 GAMMAS

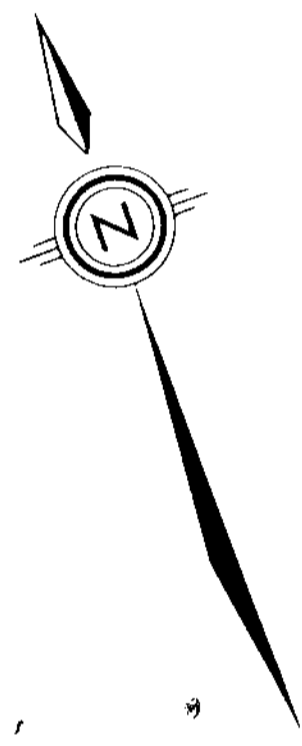
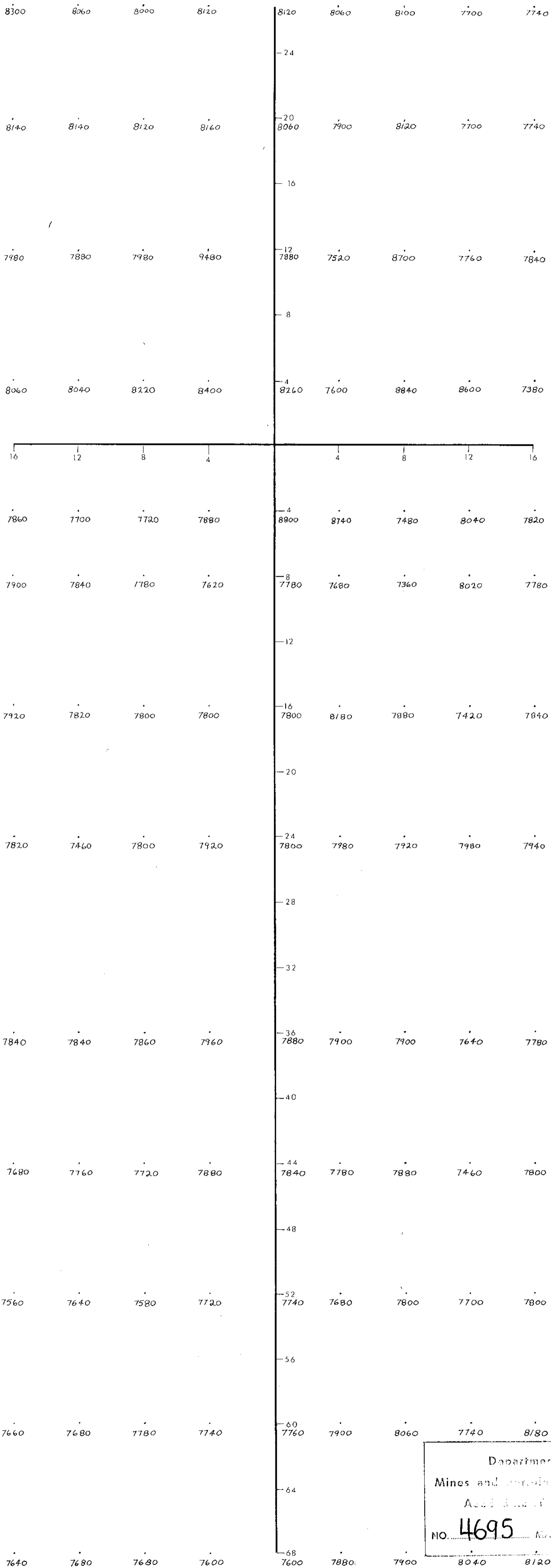
OCTOBER, 1973

V. Read

Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 4695 #9
 V. READ

TO ACCOMPANY PROPERTY REPORT BY V. READ ON THE
 MAD, JOE AND ZULA CLAIMS-ASPEN GROVE AREA-NICOLA M.D.

4695-M9



GREAT PLAINS DEVELOPMENT
COMPANY OF CANADA, LTD.

MAD MINERAL CLAIMS
NICOLA MINING DIVISION - ASPEN GROVE AREA
92 H / 16

Department of
Mines and Technical Surveys
Accession No. 4695

#10 MAGNETOMETER SURVEY
(STATION VALUES - GAMMAS)

SCALE: 1 INCH = 400 FEET

4695

V. READ
W. K. Read
MT10

OCTOBER, 1973

TO ACCOMPANY PRELIMINARY REPORT BY AREA ON THE
MAD, BOP AND U.S.A. CLAIMS - ASPEN GROVE AREA - IN A.M.S.