Open File Envelope No. 1648

SML 571 AND SML 640

SUNDOWN

PROGRESS AND FINAL REPORTS FOR THE PERIOD 29/4/71 TO 27/10/72

Submitted by
R.M.C. Minerals Pty Ltd
1972

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PRIMARY INDUSTRIES AND RESOURCES SA

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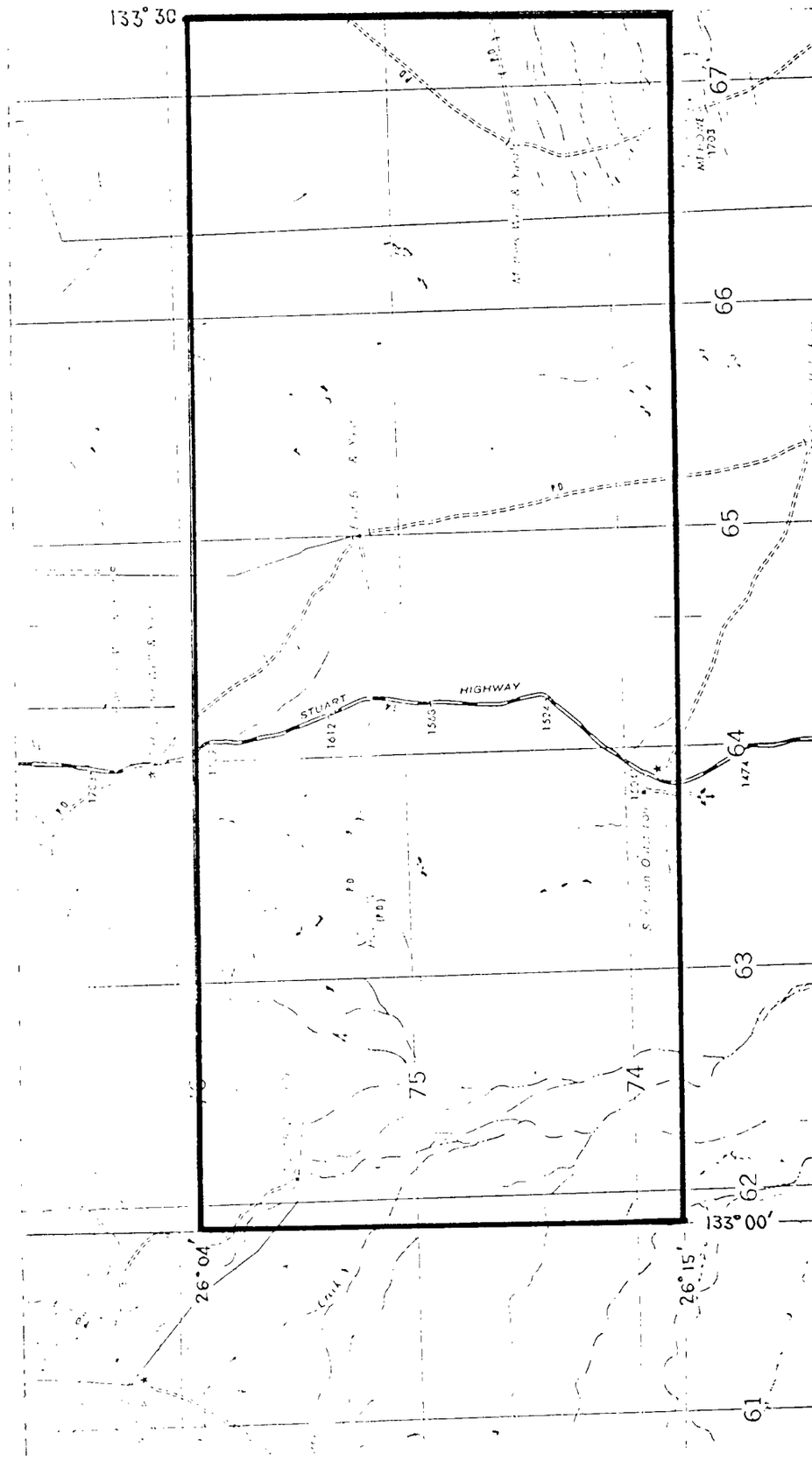
TENEMENT HOLDER: R.M.C. Minerals Pty. Ltd.



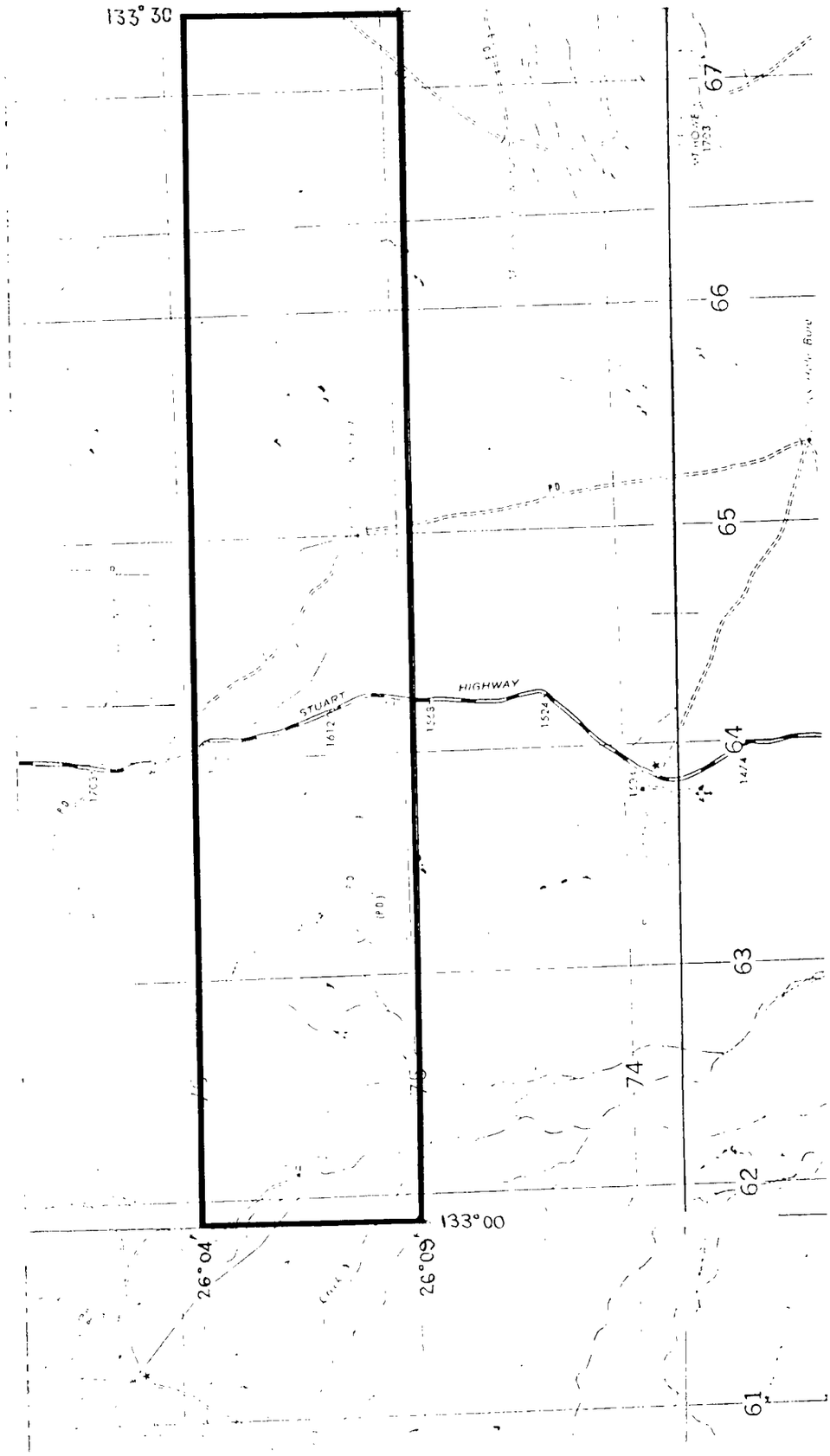
SCALE 1:250,000

RMC MINERALS PTY LTD

DISTRICT DM. 491/71 AREA 393 SQ. MILES

LOCALITY ALBERGA

GRANT No. 571 EXPIRY DATE 28.10.71



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RMC MINERALS PTY LTD.

DM. 1074/71 178

ALBERGA

640 27.10.72

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R.M.C. MINERALS PTY. LTD.

S.M.L. 571

PROGRESS REPORT TO

29th JULY, 1971

Report By:
B. Param

CONTENTS

APPENDIX

Introduction

Special Mining Lease 571 covering some 393 square miles was granted on 29th April, 1971. It is in an area adjoining the Kenmore Park area where the Department of Mines have reported presence of ultrabasic (serpentinite) rocks with encouraging nickel values.

Our exploration so far has been directed towards geological mapping, geochemistry and ground magnetics. Work is continuing in this direction and no conclusions will be made until the first phase of work is completed.

Topography

For the most part the prospect consists of a sandy plain, locally broken by abrupt protrusions of mafic rocks. These latter form small ranges that have an almost east-west trend. The country is drained by theAlcurra Creek which runs through the South Western portion of the prospect. Minor streams are located elsewhere in the prospect which run only after a torrential rainfall. All the creeks are seasonal.

The region is subjected to a dry arid climate. The rainfall which is about 5-6" annually mainly during summer is very unreliable and diurnal temperature variations support only scant vegitation.

Geology

The basement rocks in the area is believed to be of Pre Cambrian age belonging to the Musgrave Metamorphics. This is part of the Musgrave Block that extends into the Northern Territory and Western Australia. In the south the Block deepens into the Adelaidean system and in the north east extend under the Great Artesian Basin.

.....2/

The basement complex, which has been subjected to numerous tectonic events, is made up of granulites, gneiness and granites. However, the major shear system in the Musgrave Block appears to be responsible for a series of basic and ultrabasic intrusions which is now referred to as the Giles Intrusive Complex.

These intrusives occur as dykes and is represented as small ridges and make prominent features in an otherwise monotonously flat surrounding.

It appear that these dykes are associated with the Adelaidean Tectonics. The regional trend appears to be east-west with dips steeply to the west. The rock types are broadly classified as Amphibolites and Pyroxene granulites.

No detailed petrographic work has been done on these rock types but to postulate a theory, it is believed that some of these dykes could have been ultramafic in origin. Subsequent metamorphisum have now rendered these as Amphibolites and pyroxene granulites. There is however no evidence available to support this view but it is hoped that some of the rocks collected would throw some light on this subject.

Geochem Soil Sampling

The magnetic intensity map being prepared by the Department of Mines shows some trend on the Alcurra sheet. Using this as a guide four lines were superimposed over an area approximately 8 miles by 2 miles. Auger samples were collected along these lines every 500 feet apart. These samples are bedrock samples and have been assayed for copper, nickel and cobalt. A total of 240 samples were collected in the area. The results are shown on the accompanying map. A few of the results are still to hand.

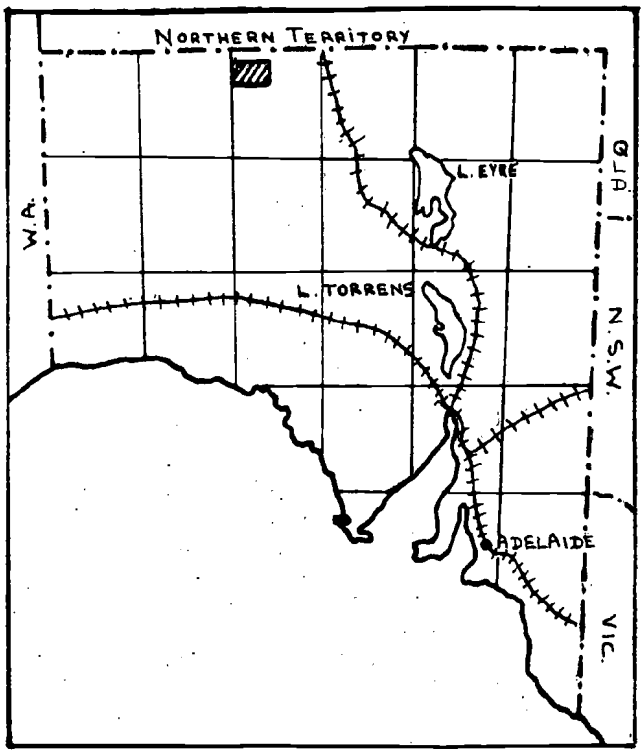
.....3/

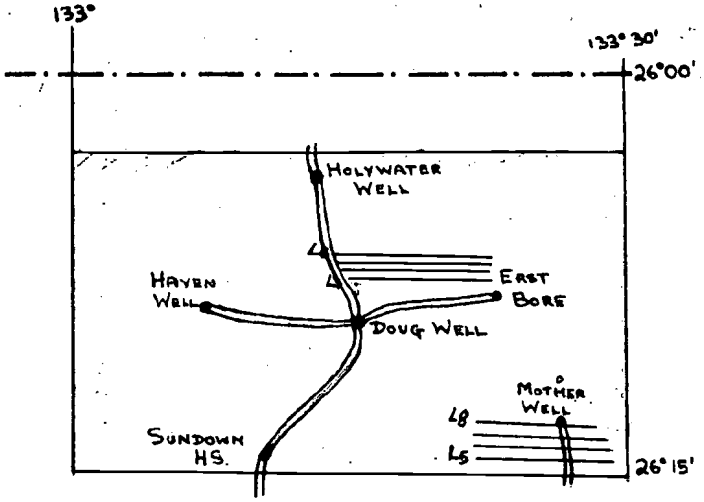
Ground Magnetics

A Jalander Magnetometer was used to obtain ground values over the above sample locations. The values obtained range from 4000 gammas to over 6000 gammas. The significance of these values is still unknown although when plotted up there is very little local relief apparent. However for comparison, an area to the south where known Serpentinites occur the magnetic values are of comparable degree. Interpretation of the magnetic readings, it is hoped, would be easier when more geochem and the geology of the area is known.

The plotted values are shown on the accompanying map.

Although a total of 240 samples were collected only 200 have been analysed so far and hence charged only for 200.



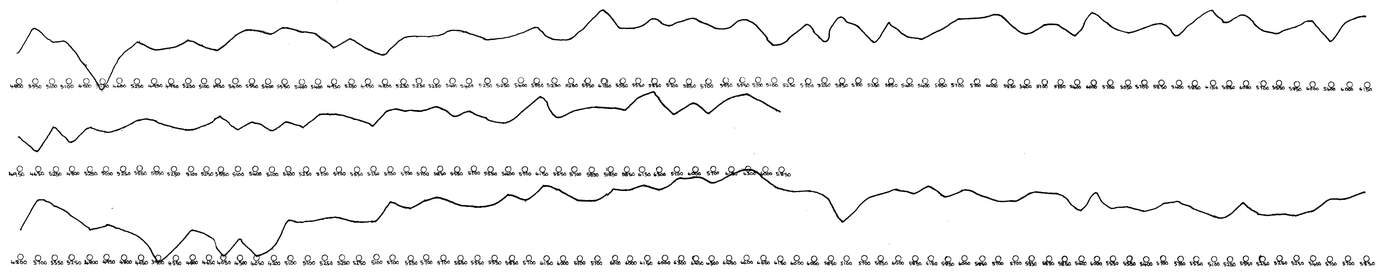


APPENDIX I

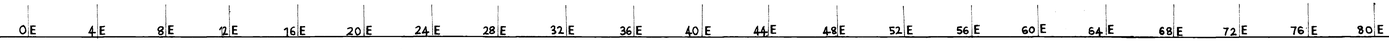
RMC MINERALS PTY LTD

Sundown Nickel Prospect Location Map

Date: 4-8-71	Geology: B.C.Param
Scale:	Drawn by: L.D.S.
Revisions:	File No.: 1053



25 00'

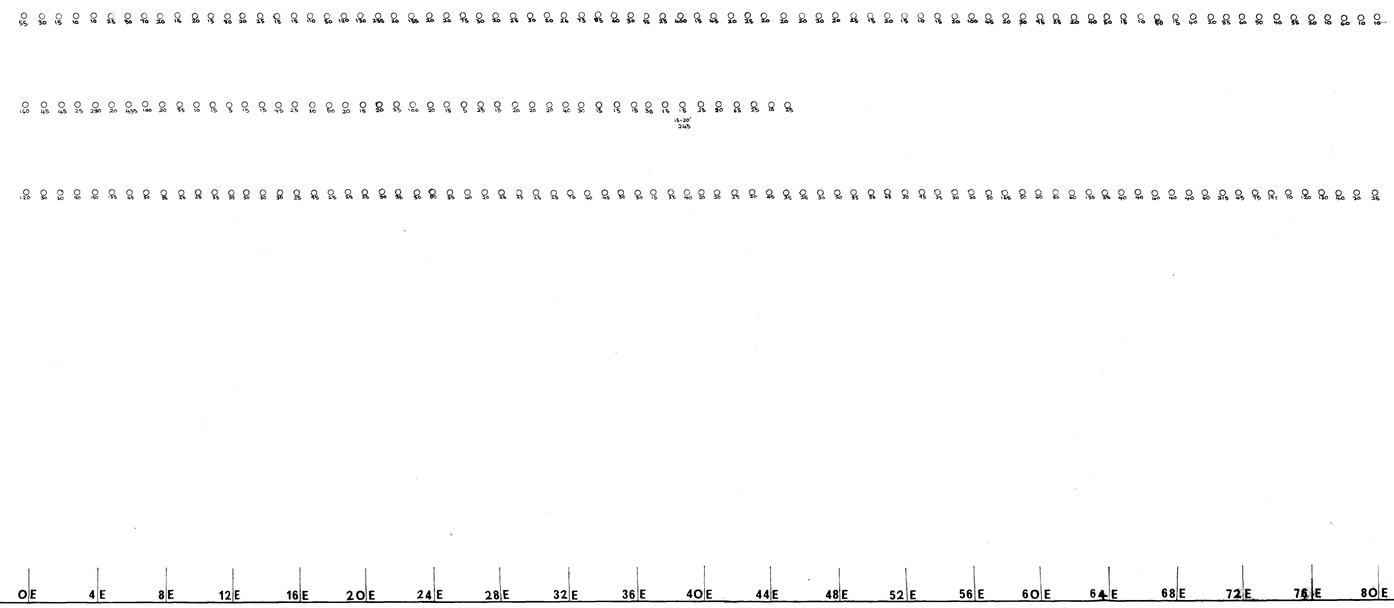


ENV 1648(I) - 1

RMC MINERALS PTY LTD

SUNDOWN GROUND MAGNETICS

date: 29-7-71	geologist: B.C. Param
scale: 1" = 2000'	drawn by: L.D.S.
revisions:	file no: 1043.



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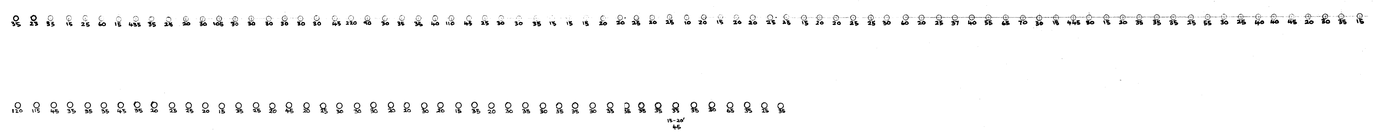
APPENDIX II

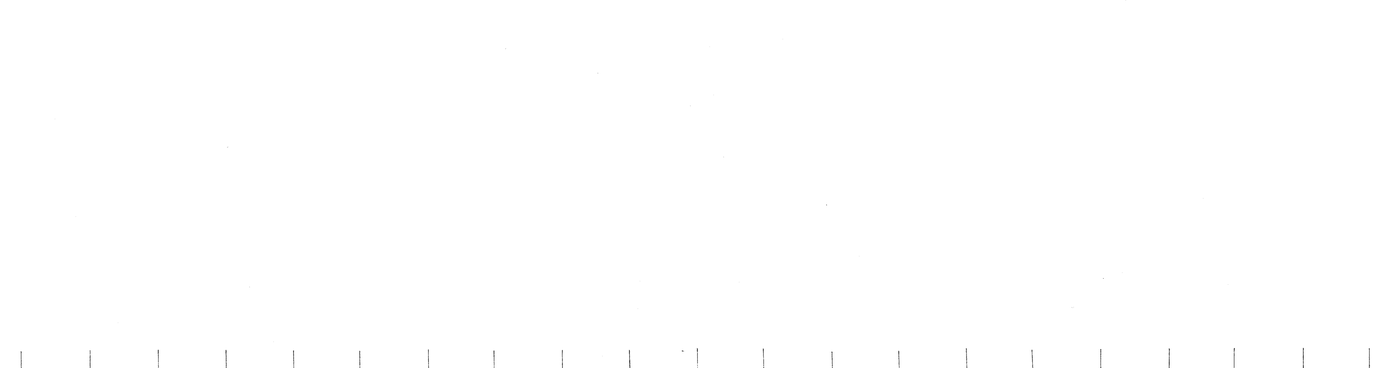
RECEIVED
6 AUG 1971
DEPT. OF MINES
SECURITY
16.08

RMC MINERALS PTY LTD	
SUNDOWN GEOCHEM RESULTS showing Copper p.p.m.	
date 16-7-71	geologist B.C.Peram.
scale 1" = 2000'	drawn by L.D.S.
revisions	file no. 1044

ENV 1648(I)-3

APPENDIX II

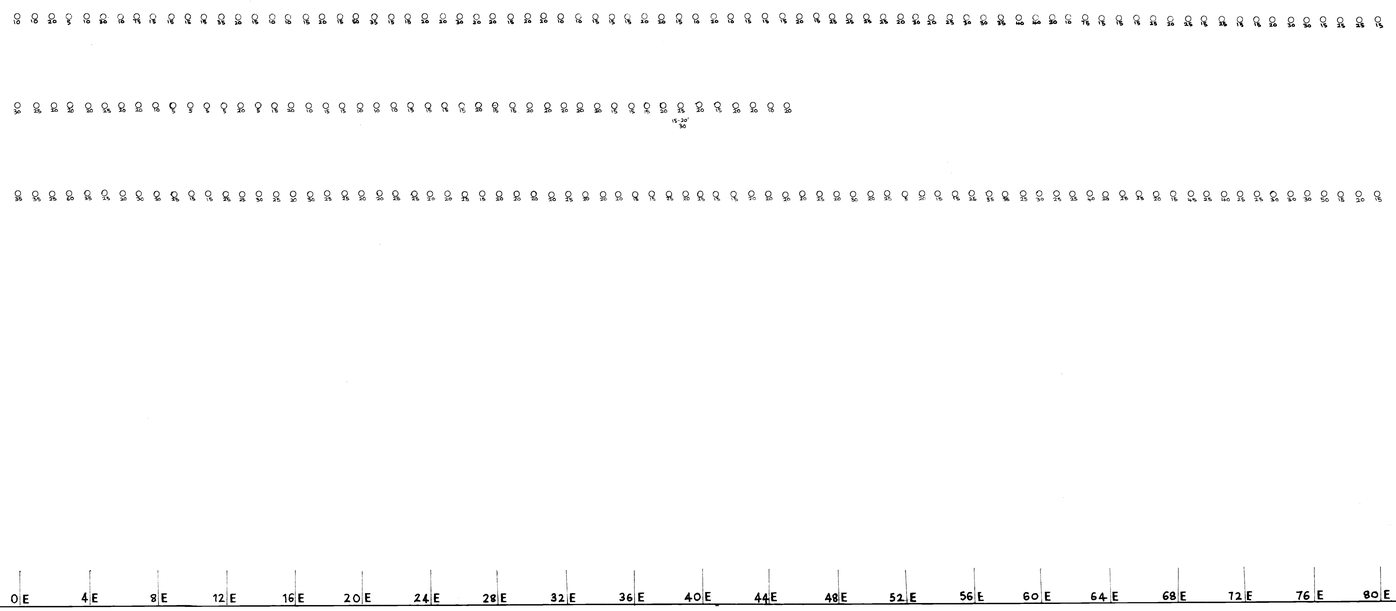




0E 4E 8E 12E 16E 20E 24E 28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E

RECEIVED
6 AUG 1971
DEPT. OF MINES
SECURITY
1648

RMC MINERALS PTY LTD	
SUNDOWN GEOCHEM RESULTS showing Nickel p.p.m.	
date: 27-7-71	geologist: B.C. Param
scale: 1" = 2000'	drawn by: L.D.S.
revisions	file no.: 1048



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APPENDIX II

RMC MINERALS PTY LTD

SUNDOWN GEOCHEM
RESULTS
Showing Cobalt ppm

date 27-7-71	geologist B.C. Param
scale 1" = 2000'	drawn by L.D.S
revisions	file no 1049

APPENDIX IV

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 7/7/71 Submitting Officer: Mr. B. Param

Project: Sundown Job No. J111 Authorised:

Sample Description: Soil Samples

Work Required: Copper, Nickel & Cobalt geochem determination

Your Ref.: Sundown - J111 Number of Samples: 81

Report Sent to: Mr. B. Param

Analytical Report No.: Date: 14/7/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: K Hay Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Ni. ppm	Co. ppm							
Line 1 0E		120	35	35							
1E		30	210	35							
2E		30	80	25							
3E		90	215	60							
4E		150	50	35							
5E		135	50	25							
6E		45	40	20							
7E		50	75	30							
8E		35	50	20							
9E		25	45	25							
10E		25	25	15							
11E		35	30	15							
12E		30	35	25							
13E		30	45	25							
14E		30	50	30							
15E		30	40	25							
16E		25	40	20							
17E		95	80	30							
18E		25	35	25							
19E		25	25	25							
20E		25	40	20							
21E		30	45	20							
22E		35	50	25							
23E		30	45	25							
24E		80	70	20							
25E		35	55	20							
26E		40	60	25							
27E		20	35	15							
28E		25	50	20							
29E		25	50	20							
30E		25	50	20							
31E		25	40	20							
32E		75	105	25							
33E		40	40	20							
34E		45	40	20							
35E		30	35	20							
36E		30	30	15							
37E		15	40	15							
38E		35	170	25							
39E		40	40	20							
40E		20	50	25							
41E		20	40	15							

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 7/7/71 Submitting Officer: Mr. B. Param

Project: Sundown Job No. J 111 Authorised:

Sample Description: Soil Samples

Work Required: Copper, Nickel & Cobalt geochem determination

Your Ref.: Sundown - J111 Number of Samples: 81

Report Sent to: Mr. B. Param

Analytical Report No.: Date: 14/7/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Ni. ppm	Co. ppm							
Line 1 42E		25	40	15							
43E		20	35	20							
44E		45	40	20							
45E		35	35	20							
46E		25	45	20							
47E		30	55	25							
48E		30	55	20							
49E		35	55	30							
50E		55	50	20							
51E		45	55	25							
52E		20	20	5							
53E		95	35	20							
54E		25	25	15							
55E		30	35	15							
56E		30	45	25							
57E		30	35	35							
58E		165	55	35							
59E		50	95	25							
60E		60	50	30							
61E		50	50	25							
62E		60	65	25							
63E		135	75	40							
64E		35	30	20							
65E		40	40	25							
66E		40	55	25							
67E		40	40	20							
68E		40	35	15							
69E		40	60	45							
70E		60	55	25							
71E		215	80	40							
72E		45	45	25							
73E		75	55	25							
74E		195	55	30							
75E		70	65	30							
76E		120	45	30							
77E		130	90	50							
78E		40	30	15							
79E		30	40	20							
80E		25	30	15							

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 7/7/71 Submitting Officer: Mr. B. Param

Project: Sundown Job No. J113 Authorised:

Sample Description: Soil Samples

Work Required: Copper, Cobalt & Nickel determination

Your Ref.: Sundown - J113 Number of Samples: 47

Report Sent to: Mr. B. Param

Analytical Report No.: Date: 23/7/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required Cu. ppm	Co. ppm	Ni. ppm	Description	Estimate
Line 2 0E		160	30	120		
1E		45	25	115		
2E		45	20	45		
3E		25	20	35		
4E		280	20	35		
5E		20	25	35		
6E		435	20	45		
7E		100	20	35		
8E		20	10	20		
9E		55	5	25		
10E		10	5	25		
11E		15	5	20		
12E		5	5	15		
13E		15	20	35		
14E		15	5	25		
15E		45	15	20		
16E		25	20	45		
17E		10	10	20		
18E		50	15	25		
19E		20	15	30		
20E		15	10	30		
21E		20	10	30		
22E		35	10	20		
23E		100	15	20		
24E		20	15	30		
25E		15	15	20		
26E		5	15	15		
27E		25	20	35		
28E		15	15	20		
29E		20	15	30		
30E		20	20	35		
31E		20	20	30		
32E		40	20	35		
33E		30	20	35		
34E		15	20	30		
35E		15	15	35		
36E		15	15	35		
37E		30	15	35		
38E		15	20	35		
39(a)		15	25	35		
39(b)	15-20'	245	30	45		

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 7/7/71 Submitting Officer: Mr. B. Param

Project: Sundown Job No. J113 Authorised:

Sample Description: Soil Samples

Work Required: Copper, Cobalt & Nickel Determination

Your Ref.: Sundown - J113 Number of Samples: 47

Report Sent to: Mr. B. Param

Analytical Report No.: Date: 23/7/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: Analyst No.: 1 & 3 & 2

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate
		Cu. ppm	Co. ppm	Ni. ppm			
40E		25	20	35			
41E		20	15	30			
42E		65	20	65			
43E		25	20	35			
44E		10	10	25			
45E		25	20	35			

SUNDOWN MAGNETOMETER READINGS

	Location	Gammas
Line 1	0-E	4800
	1-E	5700
	2-E	5550
	3-E	5250
	4-E	4800
	5-E	4950
	6-E	4800
	7-E	4650
	8-E	3900
	9-E	4350
	10-E	4800
	11-E	4650
	12-E	4050
	13-E	4500
	14-E	4050
	15-E	4200
	16-E	5100
	17-E	5100
	18-E	5250
	19-E	5250
	20-E	5250
	21-E	5100
	22-E	5700
	23-E	5550
	24-E	5700
	25-E	5700
	26-E	5550
	27-E	5550
	28-E	5550
	29-E	5850
	30-E	5700
	31-E	6150
	32-E	6000
	33-E	5700
	34-E	5700
	35-E	6000
	36-E	6000
	37-E	6150
	38-E	6000
	39-E	6300
	40-E	6450

	Location	Gammas
Line 1 cont.	41-E	6300
	42-E	6450
	43-E	6600
	44-E	6450
	45-E	6150
	46-E	6000
	47-E	6000
	48-E	5850
	49-E	5100
	50-E	5700
	51-E	5850
	52-E	6000
	53-E	5850
	54-E	6150
	55-E	5850
	56-E	6000
	57-E	5850
	58-E	5700
	59-E	5700
	60-E	5850
	61-E	5850
	62-E	5850
	63-E	5400
	64-E	6000
	65-E	5550
	66-E	5550
	67-E	5400
	68-E	5700
	69-E	5700
	70-E	5550
	71-E	5100
	72-E	5250
	73-E	5550
	74-E	5250
	75-E	5250
	76-E	5250
	77-E	5400
	78-E	5700
	79-E	5700
	80-E	5850

	Location	Gammas
Line 2	0-E	4950
	1-E	4650
	2-E	5250
	3-E	4800
	4-E	5250
	5-E	5100
	6-E	5250
	7-E	5550
	8-E	5550
	9-E	5250
	10-E	5100
	11-E	5250
	12-E	5550
	13-E	5100
	14-E	5400
	15-E	5100
	16-E	5400
	17-E	5250
	18-E	5700
	19-E	5700
	20-E	5550
	21-E	5250
	22-E	5700
	23-E	5700
	24-E	5700
	25-E	5850
	26-E	5550
	27-E	5700
	28-E	5550
	29-E	5400
	30-E	5700
	31-E	6150
	32-E	5550
	33-E	5700
	34-E	5850
	35-E	5850
	36-E	5850
	37-E	6150
	38-E	6300
	39-E	5700
	40-E	6000
	41-E	5700
	42-E	6150
	43-E	6300
	44-E	6000
	45-E	5850

	Location	Gammas
Line 3	0-E	4800
	1-E	5550
	2-E	5100
	3-E	5100
	4-E	4500
	5-E	3750
	6-E	4650
	7-E	5250
	8-E	4950
	9-E	4950
	10-E	5250
	11-E	5100
	12-E	4950
	13-E	5400
	14-E	5550
	15-E	5400
	16-E	5550
	17-E	5400
	18-E	5400
	19-E	4950
	20-E	5250
	21-E	4950
	22-E	4800
	23-E	5250
	24-E	5250
	25-E	5250
	26-E	5400
	27-E	5400
	28-E	5250
	29-E	5250
	30-E	5400
	31-E	5550
	32-E	5250
	33-E	5250
	34-E	5550
	35-E	6150
	36-E	5550
	37-E	5550
	38-E	5850
	39-E	5700
	40-E	5850

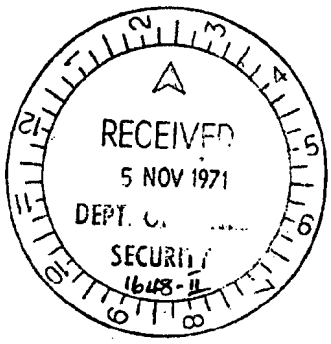
	Location	Gammas
Line 3 cont.	41-E	5700
	42-E	5550
	43-E	5550
	44-E	5700
	45-E	5100
	46-E	5250
	47-E	5700
	48-E	5250
	49-E	5850
	50-E	5700
	51-E	5250
	52-E	5550
	53-E	5400
	54-E	5400
	55-E	5550
	56-E	5700
	57-E	5700
	58-E	6000
	59-E	5850
	60-E	5400
	61-E	5700
	62-E	5700
	63-E	5400
	64-E	6000
	65-E	5700
	66-E	5550
	67-E	5700
	68-E	5850
	69-E	5400
	70-E	5850
	71-E	6150
	72-E	5850
	73-E	6000
	74-E	5700
	75-E	5550
	76-E	5850
	77-E	6000
	78-E	5400
	79-E	6000
	80-E	6150

R.M.C. MINERALS PTY. LIMITED

S.M.L. 571

PROGRESS REPORT TO

29.10.71



3rd November, 1971

CONTENTS

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APPENDIX

1. Introduction

This quarterly report is intended to cover the period 29.7.71 to 29.10.71. The S.M.L. was granted to us initially for a period of six months commencing 29th April 1971. During this period we carried out geochemical and rock chip sampling of the area on a reconnaissance scale and have outlined two somewhat anomalous areas for copper.

On 29th September 1971 we applied to the Director of Mines for an extension of time on the S.M.L. and in so doing reduced our original area to half its size. It is believed that our application has been recommended for approval.

2. Our Company Investigation

In our previous report we had stated that the area was initially outlined as a possible nickel bearing area in view of the work carried out at Kenmore Park by the Dept. of Mines. However during our investigations we have found that the geochem values for Nickel and Cobalt are very low indicating the total absence of any ultrabasic rock types in the area.

However, the dyke like intrusion of mafic rocks (Metagabbros & Amphibolites) have shown some trace of copper and our investigations have therefore been directed towards this.

Our original sampling was carried out with an Auger over an area approximately 4 miles long and 1 mile wide.

Four lines 1/2 mile apart were run in an east-west direction. Samples were collected every 500 ft. along these lines.

.....2/

We obtained two definite anomalous zones for Copper. One rock sample assayed reported 1.2% Copper.

The two zones designated Area 1 and 2 were then gridded on a line interval/sample interval ratio of 4:2 These samples were assayed for Cu. Pb. & Zn. Results are shown in Appendix II.

A few rock samples collected from the same area were also assayed for Cu. Pb. Zn. The results are shown in Appendix II.

Area 1

A total of 137 samples were obtained. These were assayed for Cu. Pb. & Zn. Six samples were chosen at random for Molybdenum determination. We chose only three as an initial check.

The background values for Copper, Lead and Zinc were calculated as 90, 80 and 55 respectively.

One of the most significant features of the area is the general north west - south east trend of the anomalies. This is especially seen in the Pb & Copper overlays while in the more mobile Zn overlay it is somewhat less obvious.

Another interesting feature is that several samples have significantly high Cu. Pb. & Zn. values. These are listed below.

12s - 0E 6E 10E
20s - 26E 28E

Only sample No. 20s - 28E was a rock sample, all others being soil bedrock samples.

The lead values are significantly higher than the average for mafic rocks (12 - 15 ppm)

Similarly the Molybdenum content of mafic rocks average about 1.7 ppm, while our samples have reported significantly higher values.

.....3/

Area 2

As in Area 1 above, the general NW/SE trend appears to continue here. The Pb. and Cu. values are again higher than the more mobile zinc values.

However, the copper background for this area is 135 ppm which is much higher than that for Area one. The background for Pb & Zn are 50 ppm each.

The coincident high Cu. Pb. & Zn values were noted on line 4s 16E. High Cu. & Pb values are reported in the following samples.

4s - 16E
8s - 14E
12s - 10E

All the above samples are rock samples.

Conclusion

Detailed Geochemistry has revealed NW/SE trending anomalies. The anomalies are supported by values more than twice the background value for the area. Hence these anomalies need to be studied in detail. It is hoped that initially a few test holes down to 150 feet can be inserted. These would enable us to know more about bedrock geology in the area. A programme for this work would be commenced shortly.

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 26/7/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 114 Authorised:

Sample Description: Sundown - geochem soil samples

Work Required: Copper, Nickel & Cobalt determination

Your Ref.: J114/1-81 Number of Samples: 81

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 5/8/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required Cu. ppm	Ni. ppm	Co. ppm		Description	Estimate
Line 3 0E		55	35	10			
1E		30	23	10			
2E		15	35	20			
3E		10	15	5			
4E		10	25	10			
5E		25	60	30			
6E		30	15	10			
7E		70	435	75			
8E		20	35	15			
9E		15	25	15			
10E		20	20	15			
11E		15	30	15			
12E		80	105	35			
13E		20	30	20			
14E		25	30	15			
15E		15	30	10			
16E		15	30	10			
17E		110	30	15			
18E		50	30	20			
19E		120	45	15			
20E		130	220	50			
20E		235	90	35		Pebbles from 15-19'	
21E		20	30	15			
22E		155	35	15			
23E		20	35	20			
24E		20	40	20			
25E		75	110	30			
26E		30	45	20			
27E		20	25	20			
28E		25	30	15			
29E		20	30	20			
30E		20	35	20			
31E		26	15	10			
32E		75	15	10			
33E		85	15	15			
34E		60	20	15			
35E		30	20	15			
36E		85	25	20			
37E		25	20	20			
38E		400	25	15			
39E		15	10	10			
40E		45	20	20			
41E		20	15	10			

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 26/7/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 114 Authorised:

Sample Description: Sundown - geochem soil samples

Work Required: Copper, Nickel & Cobalt determination

Your Ref.: J114/1-81 Number of Samples: 81

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 5/8/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required Cu. ppm	Ni. ppm	Co. ppm		Description	Estimate
Line 42E		25	20	15			
43E		20	20	15			
44E		20	25	15			
45E		20	25	20			
46E		20	15	15			
47E		20	20	25			
48E		25	20	25			
49E		15	25	25			
50E		20	25	25			
51E		15	30	20			
52E		10	60	30			
53E		15	20	20			
54E		20	25	25			
55E		100	37	30			
56E		45	40	30			
58E		20	55	35			
59E		30	65	40			
60E		95	70	40			
61E		25	30	20			
62E		20	15	10			
63E		40	445	75			
64E		50	30	15			
65E		15	15	15			
66E		10	20	15			
67E		50	35	25			
68E		15	35	20			
69E		40	35	25			
70E		20	25	15			
71E		85	55	25			
72E		60	30	15			
73E		50	25	15			
74E		40	40	20			
75E		35	40	30			
76E		20	45	30			
77E		10	20	15			
78E		60	30	25			
79E		10	35	25			
80E		10	15	15			

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 2/8/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 116 Authorised:

Sample Description: Sundown - geochem Line 4

Work Required: Copper, Nickel & Cobalt determination

Your Ref.: Sundown - J 116 Number of Samples: 46

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 9/8/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Ni. ppm	Co. ppm							
Line 4 0E		60	40	15							
1E		70	20	15							
2E		300	15	15							
3E		290	25	15							
4E		160	15	10							
5E		170	20	20							
6E		115	30	20							
7E		80	25	20							
8E		75	30	25							
9E		95	30	20							
10E		60	25	20							
11E		50	25	20							
12E		50	20	15							
13E		20	20	15							
14E		30	30	15							
15E		40	30	20							
16E		30	25	15							
17E		120	20	30							
18E		50	15	15							
19E		1.19%	160	40							
20E		45	15	15							
21E		20	15	10							
22E		35	25	15							
23E		25	20	15							
24E		25	15	15							
25E		25	15	15							
26E		480	40	30							
27E		35	15	15							
28E		25	25	15							
29E		35	40	25							
30E		25	25	15							
31E		430	175	45							
32E		65	20	20							
33E		50	20	15							
34E		160	35	30							
35E		150	20	15							
36E		35	10	10							
37E		25	15	15							
38E		25	15	15							
39E		20	15	20							
40E		50	35	20							
41E		15	25	15							
42E		20	20	15							
43E		15	20	15							

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 2/8/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 116 cont. Authorised:

Sample Description: Sundown - geochem Line 4

Work Required: Copper, Nickel & Cobalt Determination

Your Ref.: Sundown - J116 Number of Samples: 46

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 9/8/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Ni. ppm	Co. ppm							
44E		50	20	15							
45E		35	25	20							

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 16/8/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 116 Authorised:

Sample Description: Line 4 Nos.: 17E, 18E, 19E, & 31E

Work Required: Gold Assays

Your Ref.: J116/17E, 18E, 19E & 31E Number of Samples: 4

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 18/8/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
			Au. ppm								
17E	J116/18		<1								
18E	J116/19		<1								
19E	J116/20		<1								
31E	J116/32		<1								

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 9/8/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 118 Authorised:

Sample Description: Sundown Lines 5 & 6 as marked

Work Required: Copper, Nickel & Cobalt determination

Your Ref.: J118/1-47 Number of Samples: 47

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 12/8/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required			Description	Estimate				
		Cu. ppm	Ni. ppm	Co. ppm						
Line 5 0W		50	15	15						
1W		25	15	20						
2W		20	15	20						
3W		15	15	15						
4W		40	15	25						
5W		40	25	20						
6W		50	15	25						
7W		40	15	20						
8W		80	15	20						
9W		30	15	25						
10W		25	15	20						
11W		30	10	25						
12W		50	15	25						
13W		20	15	20						
14W		15	5	15						
15W		5	<5	10						
16W		35	10	15						
17W		5	<5	10						
18W		10	5	10						
19W		20	5	20						
20W		20	10	15						
21W		10	15	15						
22W		20	15	15						
23W		10	10	10						
24W		30	5	10						
25W		15	10	15						
Line 6 0W		40	5	20						
1W		30	10	15						
2W		15	10	10						
3W		10	5	10						
4W		10	5	10						
5W		15	15	10						
6W		10	5	5						
7W		10	10	5						
8W		10	10	10						
9W		10	15	15						
10W		15	5	10						

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 9/8/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 118 Authorised:

Sample Description: Sundown Lines 5& 6 as marked

Work Required: Copper, Nickel & Cobalt Determination

Your Ref.: J118/1-47 Number of Samples: 47

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 12/8/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Ni. ppm	Co. ppm							
Line 6 cont.											
11W		10	5	5							
12W		10	< 5	5							
13W		15	< 5	10							
14W		5	5	5							
15W		10	5	5							
16W		<5	< 5	< 5							
17W		<5	< 5	5							
18W		5	5	5							
19W		<5	10	10							
20W		5	< 5	5							

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 20/10/71 Submitting Officer: Mr. B. Param

Project: 20 Area 1 Job No. J 144 Authorised:

Sample Description: Soil Samples as marked

Work Required: Copper, Lead & Zinc determination

Your Ref.: J144/1-137 Number of Samples: 137

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 22/10/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No.

Chemist in Charge: JBMay Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required Cu. ppm	Pb. ppm	Zn. ppm		Description	Estimate				
8N-0E(outcrop)	J144/1	45	35	40							
8N-2E 3'		50	25	15							
8N-4E 5'		35	20	20							
8N-6E 2'		30	25	35							
8N-8E 3'		55	35	20							
8N-10E 8'		265	30	45							
8N-12E 5'		55	30	40							
8N-14E 7'		45	30	30							
8N-16E 5'		30	20	35							
8N-18E(outcrop)		2850	160	55							
8N-20E 5'		50	25	15							
8N-22E 10'		125	30	55							
8N-24E 7'		70	30	30							
4S-0E 3'		55	35	20							
4S-2E(outcrop)		35	25	15							
4S-4E 3'		1300	90	30							
4S-6E 5'		65	35	25							
4S-8E 5'		25	25	35							
4S-10E(outcrop)		220	45	30							
4S-12E 4'		50	45	25							
4S-14E 9'		90	50	50							
4S-16E(outcrop)		25	45	20							
4S-18E 5'		40	50	25							
4S-20E 7'		150	35	75							
4S-22E 8'		265	60	40							
4S-24E 4'		40	50	20							
4S-26E 5'		50	65	25							
4S-28E 8'		60	50	25							
B/L-0E 4'		40	45	15							
B/L-2E 3'		25	60	20							
B/L-4E 5'		70	50	30							
B/L-6E(outcrop)		40	65	20							
B/L-8E(outcrop)		170	50	20							
B/L-10E 2'		60	55	15							
B/L-12E 4'		50	65	20							
B/L-14E 6'		75	45	35							
B/L-16E 3'		55	75	15							
B/L-18E 6'		90	70	25							
B/L-20E 4'		50	60	15							
B/L-22E 12'		65	65	40							
B/L-24E 5'		55	50	25							

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 20/10/71 Submitting Officer: Mr. B. Param

Project: 20 Area 1 Job No. J 144 Authorised:

Sample Description: Soil Samples as marked

Work Required: Cu., Pb., & Zn. Determination

Your Ref.: J 144/1-137 Number of Samples: 137

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 22/10/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required Cu. ppm	Pb. ppm	Zn. ppm		Description	Estimate
4N-0E 2'		75	80	20			
4N-2E 4'		55	70	25			
4N-4E 4'		55	75	20			
4N-6E 7'		230	80	75			
4N-8E 8'		90	70	65			
4N-10E 2'		60	75	30			
4N-12E(outcrop)		230	70	25			
4N-14E 9'		45	30	10			
4N-16E 9'		20	25	10			
4N-18E 4'		40	35	15			
4N-20E 6'		45	30	15			
4N-22E 3'		200	35	20			
4N-24E 6'		75	65	40			
24S-0E 7'		35	60	20			
24S-2E 3'		40	50	15			
24S-4E 8'		45	50	20			
24S-6E 9'		40	40	25			
24S-8E 6'		50	50	25			
24S-10E 10'		45	45	40			
24S-12E 14'		75	35	40			
24S-14E 9'		55	45	35			
24S-16E 10'		80	50	35			
24S-18E 8'		40	50	30			
24S-20E(outcrop)		620	90	35			
24S-22E 5'		45	45	20			
24S-24E 7'		40	50	30			
24S-26E(outcrop)		30	55	10			
24S-28E 4'		40	65	15			
24S-30E 5'		30	45	20			
24S-32E 6'		75	35	40			
24S-34E 8'		35	65	40			
24S-36E 6'		35	35	35			
16S-0E 10'		30	40	15			
16S-2E 10'		40	55	15			
16S-4E 6'		35	40	15			
16S-6E 8'		75	50	40			
16S-8E 5'		100	70	25			
16S-10E 5'		50	50	25			
16S-12E		Sample Missing					

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 20/10/71 Submitting Officer: Mr. B. Param

Project: 20 Area 1 Job No. J 144 Authorised:

Sample Description: Soil samples as marked

Work Required: Cu., Pb. & Zn. determination

Your Ref.: J144/1-137 Number of Samples: 137

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 22/10/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Pb. ppm	Zn. ppm							
16S-14E 7'		50	65	35							
16S-16E 7'		315	50	55							
16S-18E(outcrop) 1'		55	55	15							
16S-20E(outcrop 1')		375	60	20							
16S-22E 4'		40	25	15							
16S-24E 7'		90	35	45							
16S-26E 8'		90	30	45							
16S-28E 8'		70	50	40							
16S-30E 7'		65	35	30							
16S-32E 7'		55	45	25							
16S-34E 5'		25	40	15							
16S-36E 8'		25	45	35							
20S-0E 4'		25	55	15							
20S-2E 5'		25	50	10							
20S-4E 7'		25	50	20							
20S-6E 9'		50	65	30							
20S-8E 4'		220	285	50							
20S-10E 3'		185	155	50							
20S-12E 6'		35	60	25							
20S-14E 5'		45	60	20							
20S-16E 9'		75	70	45							
20S-18E 7'		65	85	60							
20S-20E 7'		80	80	60							
20S-22E 4'		45	50	20							
20S-24E 6'		100	80	40							
20S-26E 4'		205	180	65							
20S-28E(outcrop)		2040	150	55							
20S-30E 5'		105	160	50							
20S-32E 7'		25	40	35							
20S-34E 6'		475	175	85							
20S-36E 10'		575	525	210							
12S-0E 7'		220	310	110							
12S-2E 3'		55	65	20							
12S-4E 5'		55	110	25							
12S-6E 1'		1300	430	180							
12S-8E 10'		80	85	45							
12S-10E 7'		290	455	110							
12S-12E 7'		130	225	50							
12S-14E 7'		65	80	35							

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 20/10/71 Submitting Officer: Mr. B. Param

Project: 20 Area 1 Job No. J144 Authorised:

Sample Description: Soil samples as marked

Work Required: Copper, Lead & Zinc determination

Your Ref.: J144/1-137 Number of Samples: 137

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 22/10/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required			Description	Estimate				
		Cu. ppm	Pb. ppm	Zn. ppm						
12S-16E 10'		50	60	45						
12S-18E 7'		80	65	50						
12S-20E 4'		40	50	15						
12S-22E 7'		240	65	35						
12S-24E 5'		30	60	15						
12S-26E 15'		200	40	55						
12S-28E 10'		50	35	20						
8S-4E 8'		75	45	45						
8S-6E 3'		45	50	20						
8S-12E(outcrop)		120	35	20						
8S-14E 7'		195	40	35						
8S-16E 5'		155	35	40						
8S-18E 9'		65	50	40						
8S-20E 10'		60	40	45						
8S-22E 5'		45	55	20						
8S-24E 5'		30	65	20						
8S-26E 7'		55	60	40						
8S-28E 10'		100	50	40						

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 28/10/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 144 A Authorised:

Sample Description: Selected Geochem Samples

Work Required: Molybdenum

Your Ref.: Number of Samples: 6

Report Sent to: Mr. B. Param

Analytical Report No.: Date: 3/11/71

Analytical Technique Employed: Col. extraction R.M. Std. Method No.

Chemist in Charge: Analyst No.: 1 & 4

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Mo. ppm									
8N 18E		12.6									
4S 4E		8.4									
12S 6E		6.2									
20S 6E		3.2									
20S 8E		2.3									
20S 28E		4.8									

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 26/10/71 Submitting Officer: Mr. B. Param

Project: 20 Area 2 Job No. J 145 Authorised:

Sample Description: Soil samples as marked

Work Required: Cu., Pb., Zn., determination

Your Ref.: J145/1-100 Number of Samples: 100

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 28/10/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required			Description	Estimate				
		Cu. ppm	Pb. ppm	Zn. ppm						
4S-0E	J145/1	125	45	40						
4S-2E	2	45	30	35						
4S-4E	3	120	25	40						
4S-6E o/c	4	135	30	35						
4S-8E	5	90	45	35						
4S-10E	6	25	25	30						
4S-12E o/c	7	160	40	45						
4S-14E o/c	8	164	30	30						
4S-16E o/c	9	655	240	160						
4S-18E o/c	10	135	45	50						
4S-20E o/c	11	115	25	30						
8S-0E	12	40	45	40						
8S-2E	13	60	30	30						
8S-4E o/c	14	85	40	30						
8S-6E	15	150	25	30						
8S-8E	16	75	25	40						
8S-10E	17	120	25	30						
8S-12E o/c	18	170	40	45						
8S-14E o/c	19	110	30	40						
8S-16E	20	45	35	30						
8S-18E o/c	21	205	35	30						
8S-20E	22	45	25	35						
12S-0E	23	55	45	50						
12S-2E	24	50	40	35						
12S-4E	25	90	35	30						
12S-6E o/c	26	150	35	45						
12S-8E	27	70	55	40						
12S-10E o/c	28	170	40	35						
12S-12E o/c	29	115	25	30						
12S-14E	30	55	35	35						
12S-16E	31	40	40	30						
12S-18E	32	35	35	30						
12S-20E o/c	33	125	30	30						
12S-22E	34	50	25	35						
16S-0E	35	25	35	25						
16S-2E	36	35	45	35						
16S-4E	37	50	50	45						

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 26/10/71 Submitting Officer: Mr. B. Param

Project: 20 Area 2 Job No. J 145 cont. Authorised:

Sample Description: Soil Samples as marked

Work Required: Cu., Pb., Zn. determination

Your Ref.: J145/1-100 Number of Samples: 100

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 28/10/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Pb. ppm	Zn. ppm							
16S-6E	J145/38	50	50	40							
16S-8E	39	60	40	35							
16S-10E	40	70	45	40							
16S-12E	41	75	40	30							
16S-14E	42	65	45	35							
16S-16E	43	65	40	30							
16S-18E	44	50	35	30							
16S-20E	45	65	40	35							
20S-0E	46	40	50	35							
20S-2E	47	40	45	30							
20S-4E	48	60	45	30							
20S-6E	49	35	30	25							
20S-8E	50	40	35	30							
20S-10E	51	120	25	50							
20S-12E	52	60	50	45							
20S-14E	53	135	40	50							
20S-16E	54	55	45	40							
20S-18E	55	30	35	50							
20S-20E	56	20	40	50							
20S-22E	57	20	40	60							
24S-0E	58	25	45	35							
24S-2E	59	25	55	30							
24S-4E	60	30	45	30							
24S-6E	61	35	40	40							
24S-8E	62	35	25	30							
24S-10E	63	30	30	20							
24S-12E	64	25	25	20							
24S-14E	65	35	35	30							
24S-16E	66	35	35	30							
24S-18E	67	35	30	25							
24S-20E	68	40	35	35							
B/L-0E	69	50	35	30							
B/L-2E	70	60	35	30							
B/L-4E	71	125	30	40							
B/L-6E	72	90	20	35							

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 26/10/71 Submitting Officer: Mr. B. Param

Project: 20 Area 2 Job No. J145 cont. Authorised:

Sample Description: Soil samples as marked

Work Required: Cu., Pb., & Zn. determination

Your Ref.: J145/1-100 Number of Samples: 100

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 28/10/71

Analytical Technique Employed: A.A.S. R.M. Std. Method No. -

Chemist in Charge: [signature] Analyst No.: 1 & 2 & 3

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Pb. ppm	Zn. ppm							
B/L-8E	J145/73	70	25	35							
B/L-10E	74	90	25	25							
B/L-12E	75	45	30	40							
B/L-14E	76	253	65	40							
B/L-16E	77	120	25	40							
B/L-18E	78	125	30	40							
B/L-20E	79	250	35	45							
4N-0E	80	75	60	20							
4N-2E	81	95	30	35							
4N-4E	82	50	35	30							
4N-6E	83	175	30	30							
4N-8E	84	55	30	40							
4N-10E	85	45	30	35							
4N-12E	86	35	25	30							
4N-14E	87	130	30	40							
4N-16E	88	125	35	35							
4N-18E	89	170	25	40							
4N-20E	90	65	25	50							
8N-0E	91	60	30	50							
8N-2E	92	70	45	55							
8N-4E	93	65	40	40							
8N-6E	94	225	40	45							
8N-8E	95	60	50	30							
8N-10E o/c	96	145	35	30							
8N-12E	97	25	35	45							
8N-14E	98	30	35	40							
8N-16E	99	145	25	30							
8N-18E	100	60	25	20							

SUNDOWN MAGNETOMETER READINGS

Area I

4N	
24E	6450
22E	6450
20E	6450
18E	6000
16E	7050
14E	6300
12E	4350
10E	6000
8E	6300
6E	5550
4E	6300
2E	6300
0E	4350
0N	
0E	6450
2E	6300
4E	6300
6E	4500
8E	6900
10E	6600
12E	6000
14E	7500
16E	7050
18E	6900
20E	6450
22E	7050
24E	6600

.....2/

4S

0E	6150
2E	4800
4E	4800
6E	5850
8E	6300
10E	6900
12E	6300
14E	5850
16E	6450
18E	6300
20E	6000
22E	5850
24E	6300
26E	6300
28E	6150

8S

28E	5700
26E	5850
24E	6300
22E	5100
20E	5850
18E	5700
16E	5850
14E	6000
12E	5700
10E	6300
8E	6000
6E	6750
4E	5100
2E	6750
0E	6600

.....3/

12S	
0E	6000
2E	7200
4E	5850
6E	6300
8E	6300
10E	6300
12E	6450
14E	6600
16E	6600
18E	7050
20E	6600
22E	6450
24E	5250
26E	6450
28E	5850
16S	
36E	6900
34E	33000
32E	6150
30E	5100
28E	6900
26E	6150
24E	5700
22E	6150
20E	7050
18E	6000
16E	6300
14E	5850
12E	6300
10E	5100
8E	6600
6E	6450
4E	6450
2E	6000
0E	6150

.....4/

20S	
0E	6300
2E	6300
4E	6450
6E	5550
8E	5400
10E	5700
12E	5850
14E	5250
16E	5850
18E	6150
20E	5700
22E	6000
24E	6000
26E	6300
28E	5700
30E	6150
32E	6150
34E	5850
36E	5250
24S	
36E	6150
34E	6150
32E	6150
30E	7350
28E	10500
26E	6000
24E	5850
22E	6150
20E	5700
18E	6150
16E	6150
14E	6450
12E	5850
10E	6150
8E	5700
6E	6600
4E	6300
2E	6000
0E	6300

.....5/

Area II

12N	
0E	5100
2E	5700
4E	5550
6E	5550
8E	5250
10E	4950
12E	5250
14E	4500
16E	4800
18E	6150
4N	
0E	4950
2E	5100
4E	5100
6E	4200
8E	5250
10E	5550
12E	5250
14E	5400
16E	5850
18E	5850
20E	5550
8N	
18E	5700
16E	6000
14E	5550
12E	6000
10E	5700
8E	4950
6E	4950
4E	5250
2E	5250
0E	5700

.....6/

ON		
	20E	3600
	18E	5400
	16E	5250
	14E	5100
	12E	4950
	10E	5700
	8E	6750
	6E	5700
	4E	4650
	2E	5550
	0E	5400
4S	0E	5550
	2E	5850
	4E	5700
	6E	5400
	8E	5400
	10E	5400
	12E	5250
	14E	5550
	16E	6000
	18E	5400
	20E	4050
8S	0E	5850
	2E	5850
	4E	6300
	6E	6300
	8E	6150
	10E	6150
	12E	6000
	14E	5850
	16E	5400
	18E	6000
	20E	4200
	22E	5850
	24E	5850

.....7/

HAVEN WELL MAGNETOMETER READINGS

	Location	Gammas
Line 1	1-N	5400
	2-N	5700
	3-N	5400
	4-N	5100
	5-N	4500
	6-N	4800
	7-N	4650
	8-N	5400
	9-N	5400
	10-N	5550
	11-N	5100
	12-N	5100
	13-N	5250
	14-N	5400
	15-N	5550
	16-N	5250
	17-N	5400
	18-N	5400
	19-N	5250
	20-N	5700
	21-N	5550
	22-N	4950
	23-N	5550
Line 2	1-N	5550
	2-N	5100
	3-N	5100
	4-N	4950
	5-N	5700
	6-N	5400
	7-N	5400
	8-N	4800
	9-N	5250
	10-N	4800
	11-N	5700
	12-N	4800
	13-N	5400
	14-N	4800
	15-N	5700
	16-N	5250
	17-N	5400
	18-N	5250
	19-N	5400
	20-N	5100
	21-N	4800
	22-N	5250
	23-N	4950
	24-N	4800
	25-N	5250

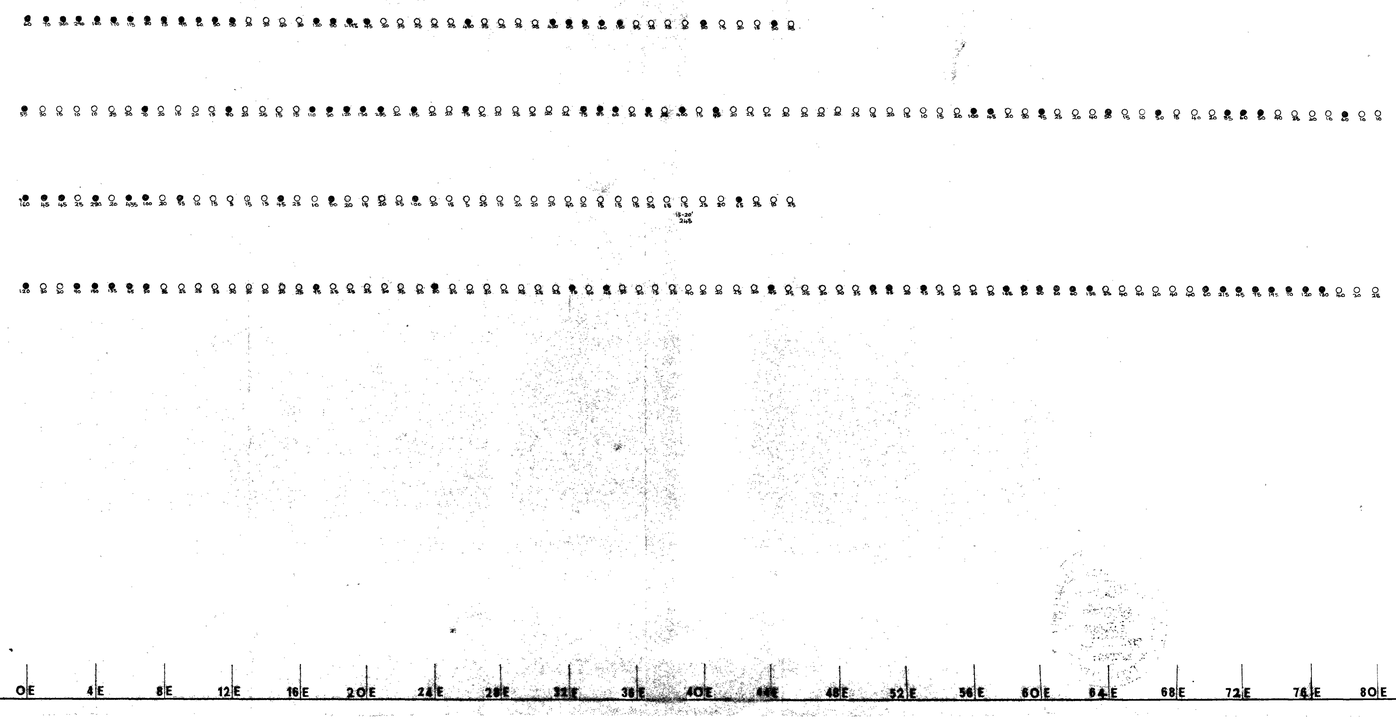
	Location	Gammas
Line 3	1-N	5700
	2-N	5850
	3-N	5250
	4-N	6150
	5-N	5700
	6-N	5550
	7-N	5550
	8-N	5550
	9-N	5400
	10-N	5550
	11-N	5700
	12-N	4950
	13-N	4950
	14-N	5100
	15-N	5700
	16-N	5400
	17-N	5550
	18-N	5850
	19-N	5700
	20-N	6000
	21-N	5400
	22-N	5700
	23-N	5850
	24-N	5100
	25-N	5550
Line 4	1-N	6000
	2-N	5400
	3-N	5100
	4-N	5400
	5-N	5550
	6-N	5550
	7-N	5850
	8-N	5700
	9-N	5700
	10-N	5250
	11-N	5100
	12-N	5100
	13-N	4650
	14-N	4050
	15-N	4650
	16-N	5400
	17-N	5400
	18-N	5550
	19-N	5700
	20-N	5250
	21-N	5250
	22-N	5550
	23-N	5550
	24-N	5100
	25-N	5100
	26-N	5250
	27-N	5100
	28-N	5100

	Location	Gammas
Line 5	1-N	5850
	2-N	5550
	3-N	5850
	4-N	6000
	5-N	6000
	6-N	5550
	7-N	5700
	8-N	6150
	9-N	5700
	10-N	5700
	11-N	4950
	12-N	5550
	13-N	5700
	14-N	5700
	15-N	5250
	16-N	5100
	17-N	5550
	18-N	5850
	19-N	5850
	20-N	5700
	21-N	5100
Line 6	1-N	6000
	2-N	5550
	3-N	5100
	4-N	5550
	5-N	5850
	6-N	5850
	7-N	5550
	8-N	5700
	9-N	5850
	10-N	5850
	11-N	5250
	12-N	5400
	13-N	5550
	14-N	6000
	15-N	5700
	16-N	5700
	17-N	5850
	18-N	6000
	19-N	5550

	Location	Gammas
Line 7	1-N	5550
	2-N	5400
	3-N	5250
	4-N	5550
	5-N	5100
	6-N	5400
	7-N	5550
	8-N	5550
	9-N	4950
	10-N	4950
	11-N	5550
	12-N	5400
	13-N	3600
	14-N	5100
	15-N	4950
	16-N	5100
	17-N	5100
	18-N	5700
	19-N	4800
	20-N	4950
	21-N	5100
	22-N	5250
	23-N	4800
	24-N	5400
	25-N	5250
	26-N	5250
	27-N	5550
	28-N	5550
	29-N	5400
	30-N	5400
	31-N	5250

	Location	Gammas
Line 8	1-N	5400
	2-N	5250
	3-N	5250
	4-N	5550
	5-N	5700
	6-N	5700
	7-N	5400
	8-N	5550
	9-N	5550
	10-N	5400
	11-N	5550
	12-N	5700
	13-N	5550
	14-N	5100
	15-N	5550
	16-N	5700
	17-N	6000
	18-N	5250
	19-N	5700
	20-N	5250
	21-N	6900
	22-N	5850
	23-N	5250
	24-N	5400
	25-N	5700
	26-N	5100
	27-N	4950
	28-N	5100
	29-N	5550
	30-N	5100
	31-N	5550

	Location	Gammas
Line 9	1-N	5400
	2-N	5700
	3-N	5700
	4-N	5400
	5-N	5850
	6-N	5700
	7-N	5550
	8-N	5550
	9-N	5700
	10-N	5550
	11-N	5550
	12-N	5400
	13-N	4950
	14-N	5250
	15-N	5250
	16-N	5250
	17-N	5250
	18-N	5250
	19-N	5700
	20-N	5700
	21-N	5550
	22-N	5550
	23-N	5550
	24-N	5550
	25-N	5700
	26-N	5550
Line 10	1-N	5700
	2-N	5700
	3-N	5850
	4-N	5550
	5-N	5550
	6-N	5700
	7-N	5400
	8-N	5700
	9-N	5250
	10-N	5400
	11-N	5400
	12-N	5400
	13-N	5250
	14-N	5400
	15-N	5400
	16-N	4800
	17-N	4950
	18-N	4950
	19-N	5400
	20-N	5400
	21-N	5550
	22-N	5400



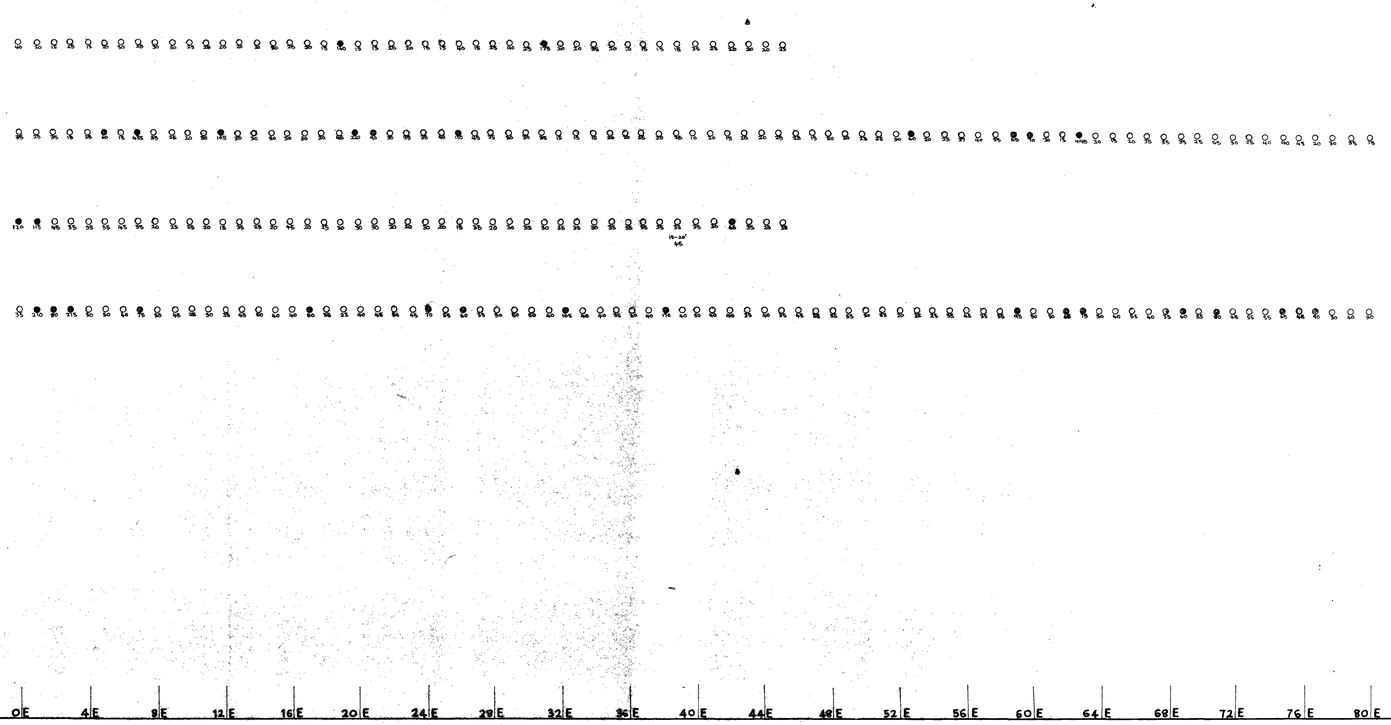
KEY

- 0-40
- 41-80
- 81-160
- 161-240
- >240

ENV 1648(II) - 1

APPENDIX II A

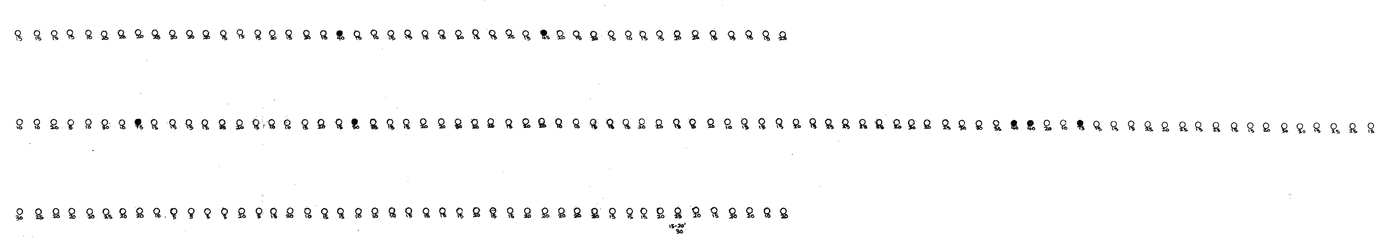
RMC MINERALS PTY LTD	
SUNDOWN GEOCHEM RESULTS showing Copper p.p.m.	
date 16-7-71	geologist B.C. Horan
scale 1" = 2000'	drawn by L.D.S
revisions	file no 1044



ENV 1648(II)-2

APPENDIX IV A

RMC MINERALS PTY LTD	
SUNDOWN GEOCHEM RESULTS showing Nickel p.p.m.	
date: 27-7-71	geologist: B.C. Param
scale: 1" = 2000'	drawn by: L.D.S
revisions	file no: 1048



KEY

- ○ 0-35
- ◉ 36-70
- ● 71-105

0E 4E 8E 12E 16E 20E 24E 28E 32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E

ENV 1648(II)-3

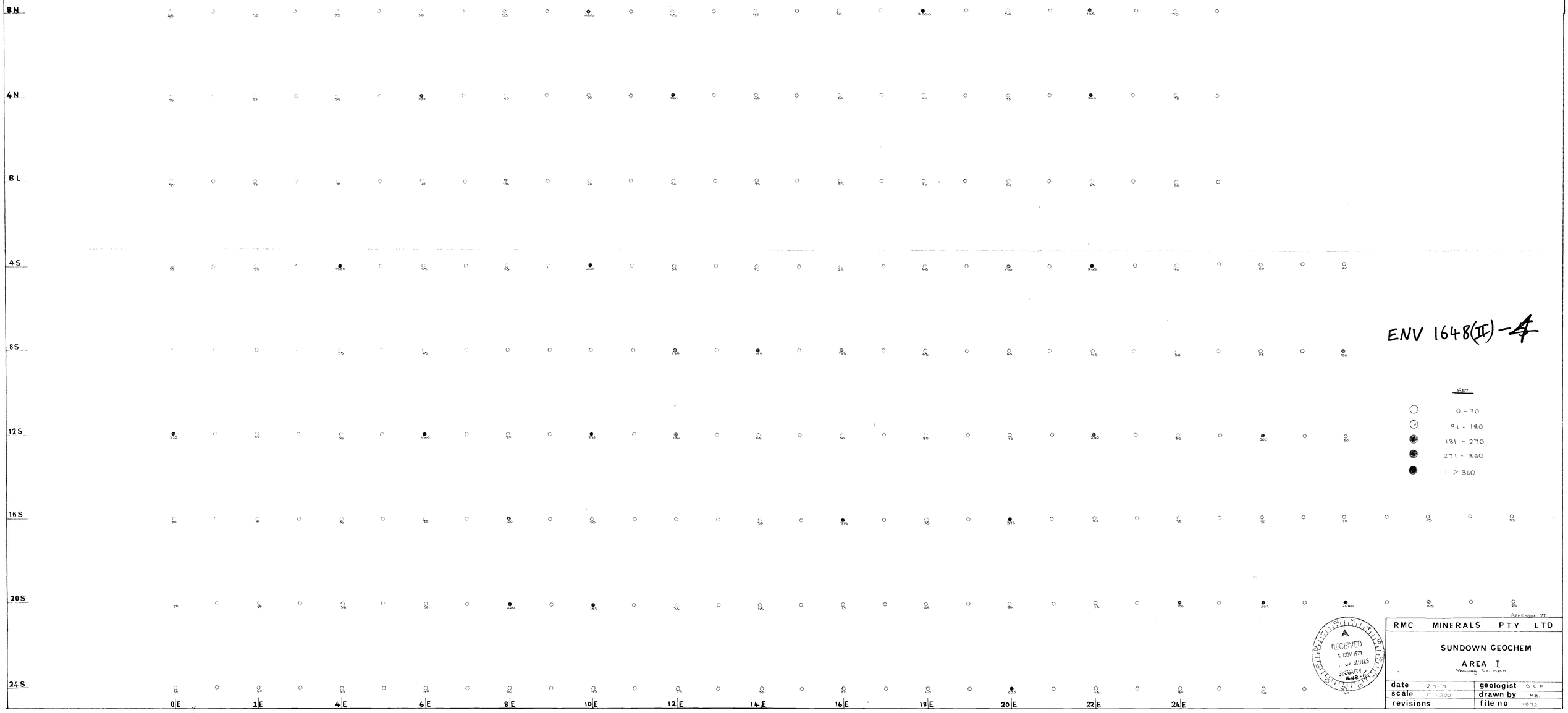
APPENDIX I A

RMC MINERALS PTY LTD

SUNDOWN GEOCHEM
RESULTS
showing Cobalt ppm

date: 27-7-71	geologist: B.C. Param
scale: 1" = 2000'	drawn by: L.D.S
revisions:	file no: 1049

ENV 1648(II)-4



APPENDIX III

RMC MINERALS PTY LTD

SUNDOWN GEOCHEM

AREA I

Showing Cu. ppm.

date 2-9-71	geologist B.C.P.
scale 1" = 200'	drawn by M.B.
revisions	file no 1072

8N

4N

BL

4S

8S

12S

16S

20S

24S

0E 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E 22E 24E

ENV 1648 (II) - 5

KEY

- ○ 0-80
- ◎ 81-160
- ◉ 161-240
- ● >240

Appendix III

RMC MINERALS PTY LTD

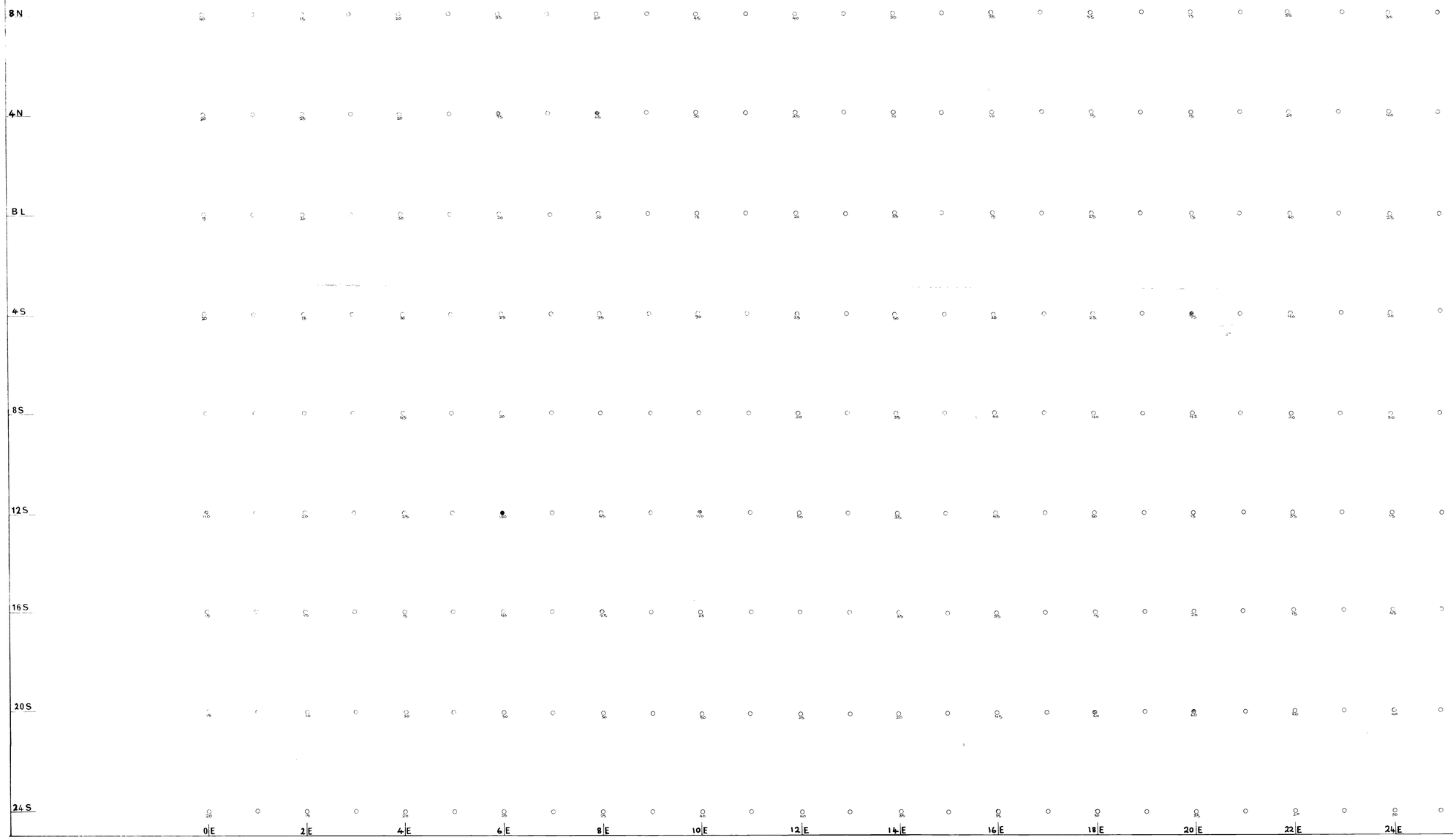
SUNDOWN GEOCHEM

AREA I

Showing Pb. p.p.m.

date 2-4-71	geologist B.C.P.
scale 1" = 200'	drawn by H.B.
revisions	file no 1072

ENV 1648(II)-6



KEY

- ○ 0-55
- ◔ 56-110
- ● 111-165
- ● >165

Appendix III

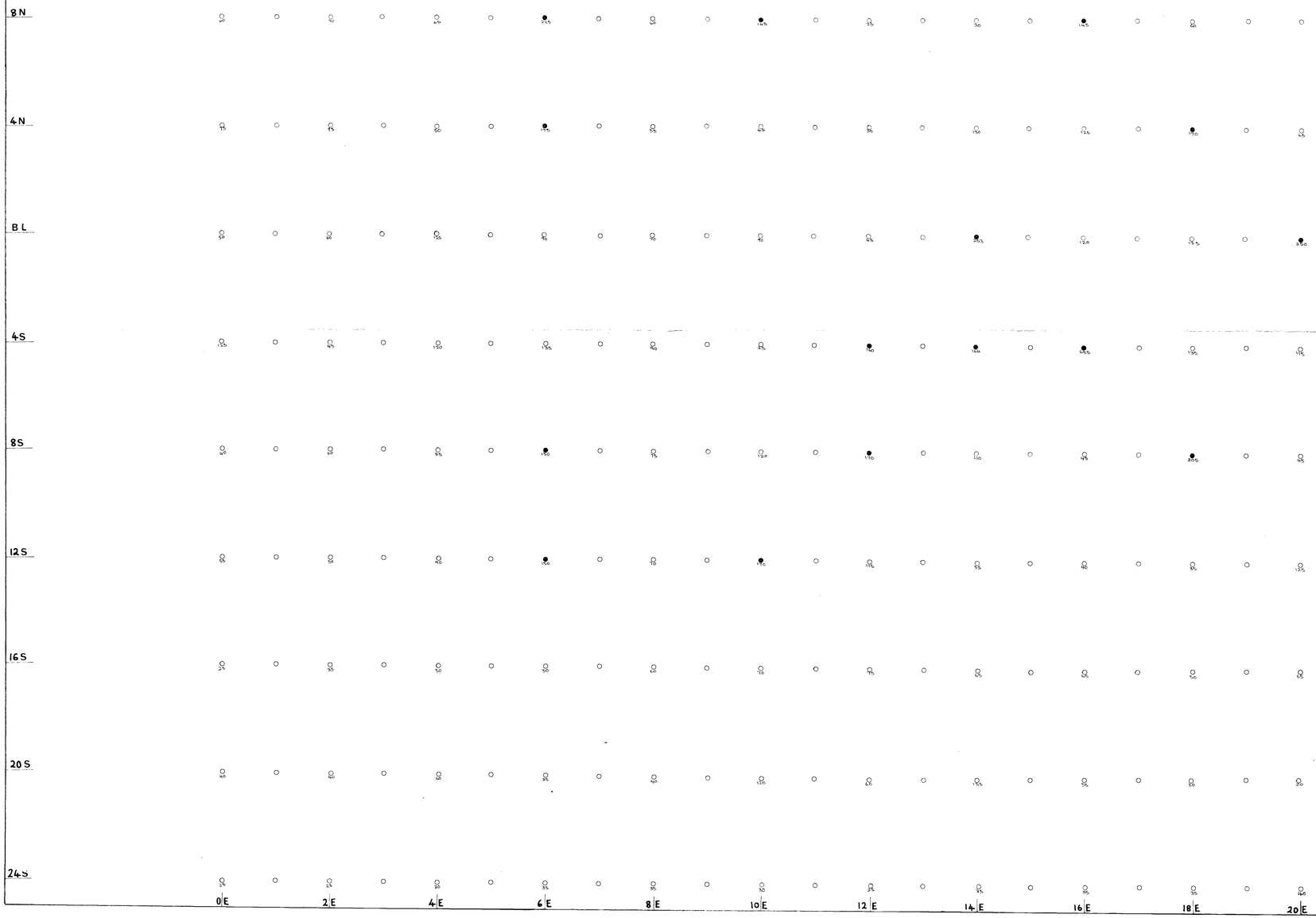
RMC MINERALS PTY LTD

SUNDOWN GEOCHEM

AREA I

showing Zn ppm

date 2-9-71	geologist B.C.P.
scale 1" = 200'	drawn by M.B.
revisions	file no 1972



ENV 1648(II)-87

RMC MINERALS PTY LTD

SUNDOWN GEOCHEM

AREA II

showing Cu. p.p.m.

date 2-9-71	geologist B.C.P.
scale 1" = 200'	drawn by M.B.
revisions	file no 1071

8N

4N

BL

4S

8S

12S

16S

20S

24S

0E 2E 4E 6E 8E 10E 12E 14E 16E 18E 20E

KEY

○ 0 - 50

◉ 51 - 100

● > 100

ENV 1648(II)-8

APPENDIX IV

RECEIVED
5 NOV 1971
DEPT. OF MINES
SECURITY
1648-II

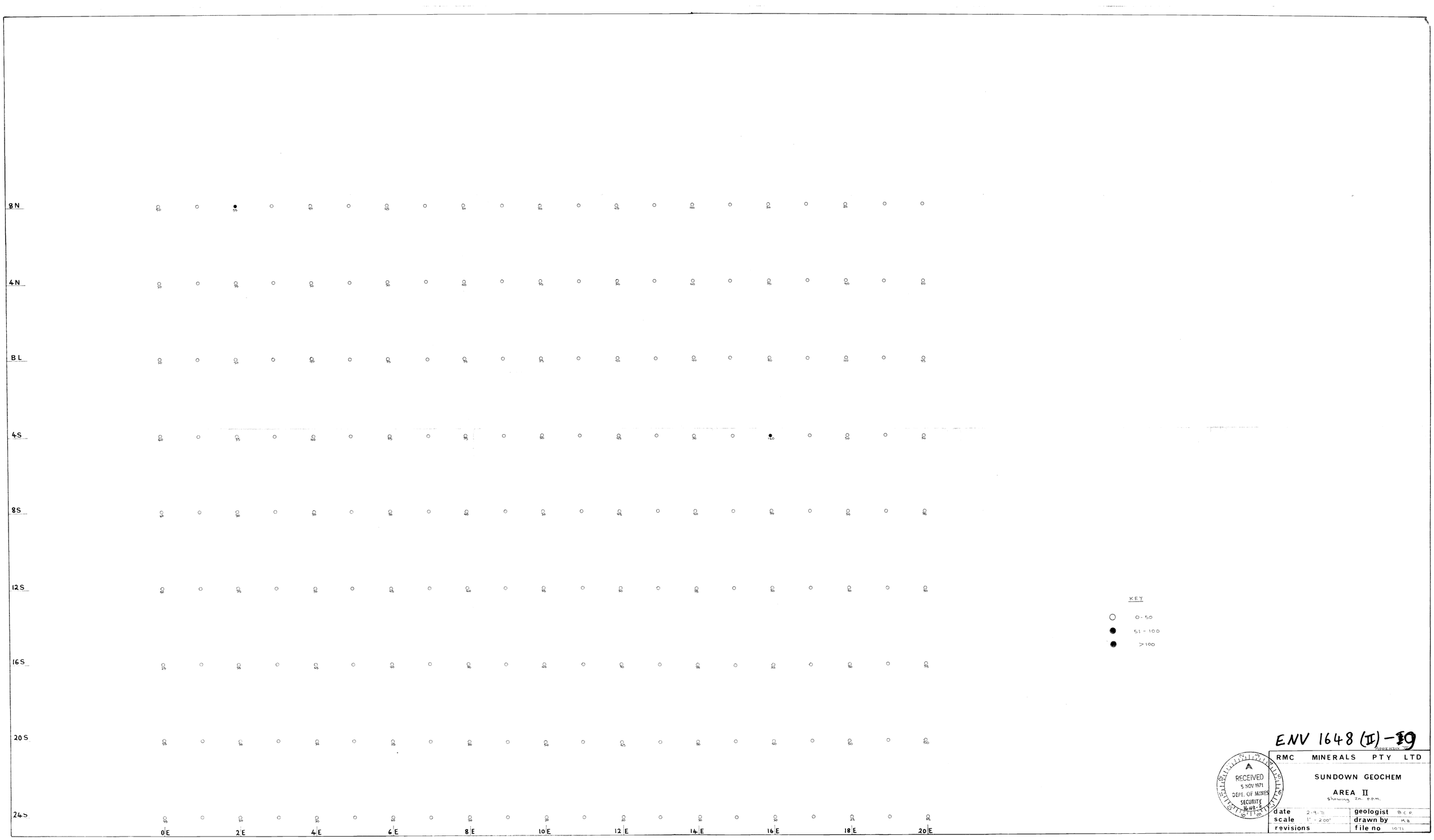
RMC MINERALS PTY LTD

SUNDOWN GEOCHEM

AREA II

Showing Pb, p.p.m.

date 2-9-71	geologist B.C.P.
scale 1" = 200'	drawn by M.B.
revisions	file no 1071



ENV 1648 (II) – 19

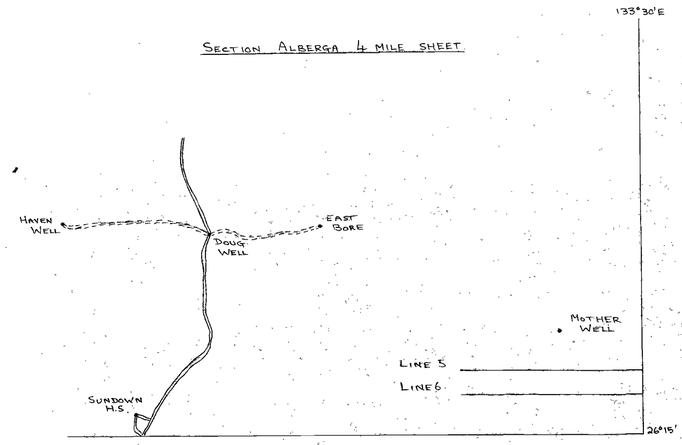
RMC MINERALS PTY LTD

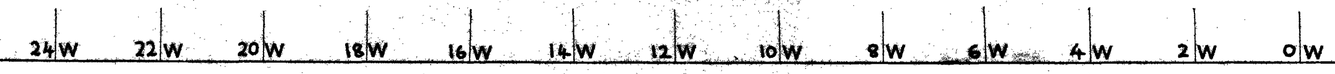
SUNDOWN GEOCHEM

AREA II

Showing Zn. P.P.M.

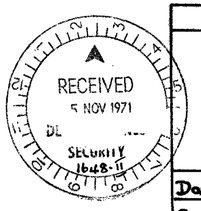
date	2-9-71	geologist	B.C.P.
scale	1" = 200'	drawn by	M.B.
revisions		file no	10-71





ENV 1648(II)-10

APPENDIX II B



RMC MINERALS PTY LTD

SUNDOWN GEOCHEM

LINES 5 & 6

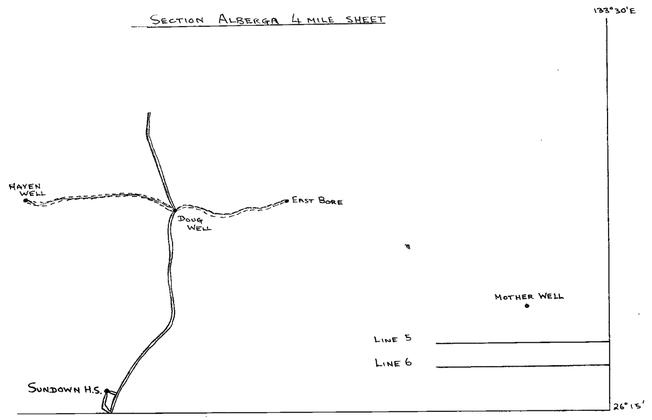
Showing Co. p.p.m.

Date: 1-11-71	**Geology:** B.C. Param
Scale: 1" = 1mile	**Drawn By:** M.A.B.
Revisions:	**File No:** 1079

LINE 5

LINE 6

SECTION ALBERGA 4 MILE SHEET



24W 22W 20W 18W 16W 14W 12W 10W 8W 6W 4W 2W 0W

ENV 1648(II)-11

APPENDIX II B

RECEIVED
5 NOV 1971
DEPT. OF MINES
SELKIRK
1648-II

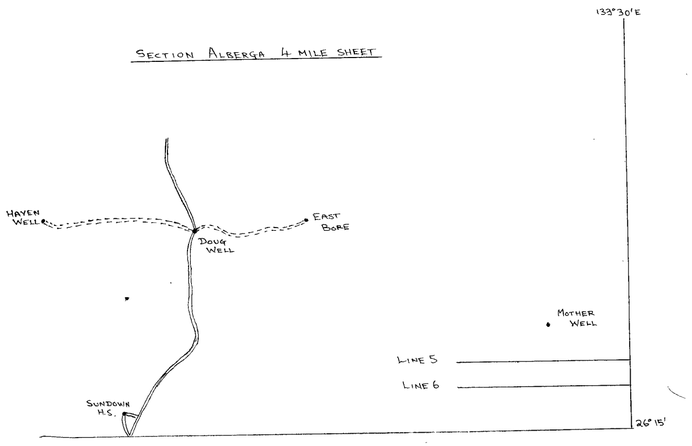
RMC. MINERALS PTY. LTD.

SUNDOWN GEOCHEM

LINES 5 & 6

Showing Ni. p.p.m.

Date: 1-11-71	Geology: B.C. PARAM
Scale: 1" = 1 mile	Drawn By: M.A.B.
Revisions:	File No: 1079



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ENV 1648(II)-12

APPENDIX II B

RMC. MINERALS PTY. LTD.

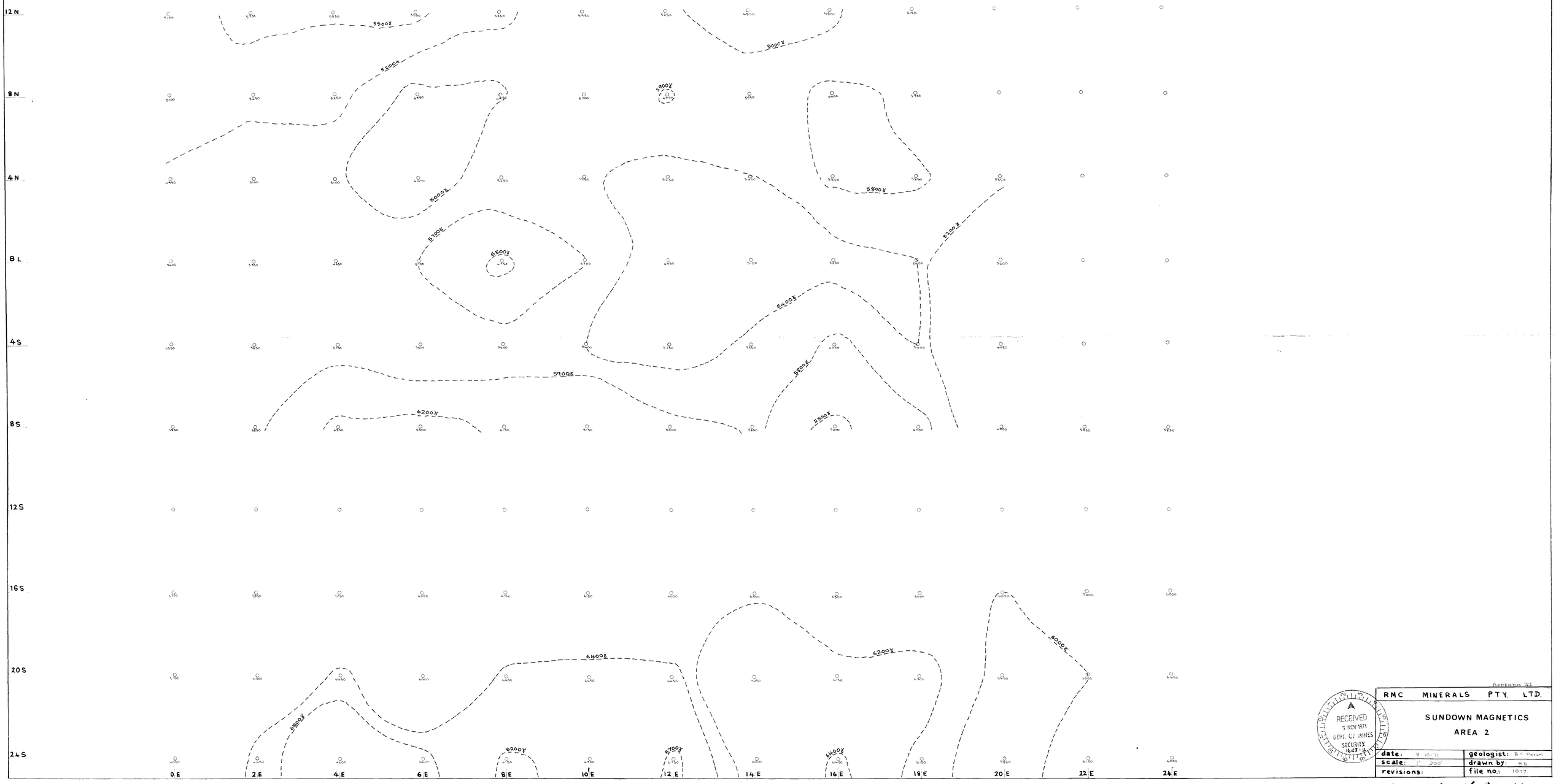
SUNDOWN GEOCHEM

LINES 5 & 6

showing Cu. P.P.M.

Date: 1-11-71	Geology: B. C. Param
Scale: 1" = 1 mile	Drawn By: M.A.B.
Revisions:	File No: 1079

8N
4N
BL
4S
8S
12S
16S
20S
24S
0E
2E
4E
6E
8E
10E
12E
14E
16E
18E
20E
22E
24E
26E
28E
5400γ
6100γ
5000γ
6800γ
5300γ
7000γ
7000γ
6500γ
6200γ
6300γ
6500γ
6700γ
7100γ
6400γ
6100γ
6500γ
7000γ
5900γ
6000γ
6200γ
6400γ
5900γ
6000γ
6100γ
APPENDIX IV
RECEIVED
5 NOV 1971
DEPT. OF MINES
SECURITY
1648 (II)
RMC MINERALS PTY. LTD.
SUNDOWN MAGNETICS
AREA 1
date: 8.10.71
geologist: B.C. Parker
scale: 1" = 200'
drawn by: M.B.
revisions
file no.: 1076
ENV 1648(II)-13



APPENDIX XI

RMC MINERALS PTY. LTD.

SUNDOWN MAGNETICS
AREA 2

date: 8-10-71	geologist: B.C Param.
scale: 1" = 200'	drawn by: M.B.
revisions:	file no.: 1077

RECEIVED
5 NOV 1971
DEPT. OF MINES
SECURITY
1648-II

ENV 1648(II) – 14

S.M.L. 640

FINAL REPORT - AUGUST 1972

By: B.C. Param

CONTENTS

Introduction

Earlier exploration in the area revealed what appeared to be geochemically anomalous areas showing above average copper values. A few of these samples when tested for Molybdenum also gave somewhat high readings. It was therefore decided to carry out more work in the area to try and explain some of the anomalous features.

Detailed geology and some geochemistry together with some shallow drilling was undertaken. The drilling was carried out using a Holman down-the-hole hammer drill. This drill was found unsuitable in the area. The overlying soil (up to 15-20 feet) posed problems for the drill.

In all some 550 feet were drilled. The samples were assayed for copper and selected ones for Molybdenum. No significant values were obtained and hence the area was recommended to be relinquished.

Geology

The greater part of the S.M.L. is barren of any outcrops. The area is heavily covered by sandy soil (both eluvial and alluvial) often to depths up to 20 feet or more. At these depths, it was found by Auger drilling, a calcrete layer often mantles the underlying bedrock. Effective geochemical sampling is often costly as penetration of this calcrete layer is necessary to obtain meaningful bedrock samples.

Precambrian

The ages of the Precambrian rocks have not been determined with sufficient accuracy to place them in other than broad subdivisions. These basement rocks of the Musgrave Block along the southern margin of the Amadeus Basin, show evidence of a complex history, but the details are unknown.

The oldest rocks were regionally metamorphosed to schists and gneisses and were later intruded by granites. The last igneous activity was the injection of a swarm of olivine rich dolerite dykes and sills.

Gneisses

Precambrian gneisses crop out in two areas, one north of the S.M.L. near Mt. Cavenagh homestead and the other north west along the border. The gneiss at Mt. Cavenagh was examined and is regarded as a primary intrusive igneous osthogneiss, as it has the texture and composition of a banded biotite granite. It contains xenoliths of schists in places.

The outcrop along the border was regarded more of a granite. It contains a few phenocrysts of potash felspars and subordinate plagioclase and some orientated xenoliths. They vary from coarse grained porphyritic hornblende-biotite granite/gneiss to a fine grained leucogranite.

Dolerite Dykes

A swarm of olivine rich dolerite dykes and sills intrudes basement gneisses, and represents the last phase of the igneous activity. The rocks are dark grey, very tough, fine to medium grained and are composed of labradorite, pyroxene, olivine and magnetite. In places the dolerites have metamorphosed and infiltrated the granite, giving rise to such varieties are amphibolites and pyroxene granulites.

These dykes within the S.M.L. are somewhat smaller in size but they attain greater dimensions to the north. They trend north west/south east and dip at shallow angles (20^{o}-30^{o}) to the south. Some of the thicker dykes exhibit columnar structures.

During Quaternary the drainage system of the area became internally directed. The climate became more arid and shifting sand dunes covered large areas of the landscape and the dunes are now fixed by vegetation. Continued erosion yielded sheets and valley fills of alluvium which now covers about 90% of the area.

Geochemistry

In our earlier reports we have detailed our geochemical soil sampling of the area. The results show distinct areas wherein the copper values are somewhat higher than background.

Detailed sampling on a 200 ft. grid system was carried out and this failed to show up any significant trend in the copper values. However, it was felt some of the samples were collected before the silcrete layer was penetrated.

Further, some of the samples with high copper values were analysed for Molybdenum. The values obtained again appeared to be higher than average.

Shallow Drilling

A Holman down-the-hole hammer drill was used. It was intended to drill several holes to 150 feet. The penetration was restricted to the following reasons.

a) The amount of loose overburden sand and soil clogged up holes. There was insufficient casing on site to cope with the problem.

b) The dolerite rock was too hard that two lots of bits and one hammer was broken within the first 200 feet.

c) The dolerites were no more than 20-30 feet thick and the gneissic/granitic rock into which the former intrudes often weathers into a sandy component and poses problems.

A total of 585 feet were drilled.

Discussion

Residual soils in area one were sampled every 200 feet intervals. Where no soil was developed over outcrop, samples were taken of the outcrop. All samples were dried, pulverised and determined colorimetrically using hot acid extracts.

The results and geology are shown on the accompanying maps.

Visual inspection of the detailed area one shows that the grade of copper mineralisation is of the background order. The molybdenite mineralisation is also low and sporadic.

On the average molybdenum content of a rock increases with the SiO_2. Averages for felsic, mafic and ultramafic rocks may be taken as 1.6p.p.m., 2.2p.p.m. and 0.23p.p.m. respectively.

In our analysis we obtained 39.5p.p.m. as the highest value and 1.5p.p.m. as the lowest value. The higher values were rather interesting in that the average value of Molybdenum over barren rock is of the order of 5p.p.m. It was thought that these may lead to a blind orebody.

However subsequent work established that the high molybdenum values are probably due to minor concentrations under alkaline environments.

In the presence of iron in acid conditions, the molybdenum tends to be caught up as ferri molybdite. The acid molybdate ion remains virtually insoluble.

The copper values on the other hand tend to be of background order. The copper is reasonably mobile in acid environment and presence of any concentration should have been noticed in the sampling.

Due to the thick alluvium cover (up to 30 feet) the possible contamination in sampling was considered and some of the areas with initial high geochem values were tested by shallow drilling. It was decided to drill into the bedrock.

The results again confirmed the previous soil results with quite low copper values. The molybdenum values were even lower.

Conclusion

The granitic gneiss rocks have been intruded by doleritic dykes and sills. It was thought that the latter could have been derivatives from an initial ultramafic magma or rock type. Earlier work for nickel mineralisation proved that these intrusions are mafic with no traces of nickel content at all.

However, one or two samples yielded very high copper values and it was thought the area might hold potential for a copper deposit.

Subsequent work in this direction showed that the area is devoid of any form of mineralisation. The area was recommended to be dropped.

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 15/12/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 154 Authorised:

Sample Description: Sundown geochem samples

Work Required: Mo. determination

Your Ref.: J154/ 23, 24, 25, 26 Number of Samples: 4

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 15/12/71

Analytical Technique Employed: Colourimetric R.M. Std. Method No.

Chemist in Charge [signature] Analyst No.: 2

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Mo. ppm									
4S-18E	J154/23	8.5									
4S-20E	24	6.7									
4S-22E	25	10.2									
4S-24E	26	1.6									

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 14/12/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 154 Authorised:

Sample Description: Sundown Geochem Samples

Work Required: Mo. determination

Your Ref.: J154/ 19, 20, 21,22 Number of Samples: 4

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 14/12/71

Analytical Technique Employed: R.M. Std. Method No.

Chemist in Charge [signature] Analyst No.: 1

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
			Mo. ppm								
4S 10E	J154/19		3.2								
4S 12E	20		3.4								
4S 14E	21		4.0								
4S 16E outcrop	22		4.6								

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 13/12/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 154 Authorised:

Sample Description: Sundown Geochem Samples

Work Required: Mo. determination

Your Ref.: J154/14, 15, 17 & 18 Number of Samples: 4

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 13/12/71

Analytical Technique Employed: Colourimetric R.M. Std. Method No. -

Chemist in Charge [signature] Analyst No.: 1

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
			Mo. ppm								
4S-0E	J154/14		1.9								
4S-2E outcrop	15		7.5								
4S-6E	17		1.0								
4S-8E	18		7.5								

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 10/12/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 154 Authorised:

Sample Description: Sundown geochem samples

Work Required: Mo. assay

Your Ref.: J154/9-12 Number of Samples: 4

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 10/12/71

Analytical Technique Employed: Colourimetric R.M. Std. Method No. -

Chemist in Charge John Foster Analyst No.: 1 & 2

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
			Mo. ppm								
8N-16E	J154/9		9.1								
8N-20E	10		2.9								
8N-22E	11		5.7								
8N-24E	12		1.9								

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 29/11/71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 154 Authorised:

Sample Description: Sundown soil samples as marked

Work Required: Mo. determination

Your Ref.: J154/1-5 Number of Samples:

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 7/12/71

Analytical Technique Employed: Colourimetric R.M. Std. Method No.

Chemist in Charge: John Cook Analyst No.: 1 & 2

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
			Mo. ppm								
20S-26E	J144/106		5.3								
12S-0E	J144/112		39.2								
12S-10E	J144/117		26.6								
20S-10E	J145/51		14.4								
20S-14E	J145/53		39.5								

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 9. 12. 71 Submitting Officer: Mr. B. Param

Project: 20 Job No. 154 Authorised:

Sample Description: Sundown geochem samples

Work Required: Mo. assay

Your Ref.: J154/5-8 Number of Samples: 4

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 9.12.71

Analytical Technique Employed: Colourimetric R.M. Std. Method No. -

Chemist in Charge: John Doolan Analyst No.: 1 & 2

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
			Mo. ppm								
8N-8E	J154/5		1.5								
8N-10E	6		15.7								
8N-12E	7		25.1								
8N-14E	8		3.0								

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 8-12-71 Submitting Officer: Mr. B. Param

Project: 20 Job No. J 154 Authorised:

Sample Description: Sundown geochem samples

Work Required: Mo. assay

Your Ref.: J154/1-4 Number of Samples: 4

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 8/12/71

Analytical Technique Employed: Colourimetric R.M. Std. Method No. -

Chemist in Charge [signature] Analyst No.: 1 & 2

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Mo. ppm									
8N-0E	J154/1	5.0									
8N-2E	2	26.5									
8N-4E	3	3.4									
8N-6E	4	3.9									

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 24th July 1972 Submitting Officer: Mr. B. Param

Project: Sundown Job No. J 179 Authorised:

Sample Description: Drill Samples from Area 1 & 2 as marked

Work Required: Copper, Nickel & Molybdenum

Your Ref.: J179/1-40 Number of Samples: 40

Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 31/7/72

Analytical Technique Employed: A.A.S. R.M. Std. Method No.

Chemist in Charge: Analyst No.: 1

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Ni. ppm	Mo. ppm							
Area 2											
8S-17E 0-10'	J179/1	65	20								
10-20'	2	35	30								
20-30'	3	30	25								
30-40'	4	20	20								
Hole 1											
4N-11E 0-10'	5	100	140	<5							
10-20'	6	80	230	<5							
20-30'	7	40	50								
30-40'	8	30	20								
40-50'	9	45	25								
50-60'	10	45	20								
60-70'	11	60	25								
70-80'	12	110	65	<5							
80-90'	13	80	40								
Hole 1											
20.5E-B/L	14	60	220	<5							
Hole 2											
20.5E-B/L											
0-3'	15	80	60								
Hole 3											
20.5E-B/L											
0-10'	16	30	50								
Area 1											
4N-6E B/L											
0-10'	17	10	35								
10-15'	18	60	110								
16E-B/L 0-10'	19	115	40	<5							
10-20'	20	105	115	<5							
20-30'	21	80	35								
30-40'	22	55	30								
40-50'	23	90	20								
50-60'	24	70	30								

READYMIX CHEMICAL TESTING LABORATORIES

INTERNAL ANALYTICAL REQUEST AND REPORT

Application Dated: 24th July 1972 Submitting Officer: Mr. B. Param

Project: Sundown Job No. J 179 Authorised:

Sample Description: Drill Samples from Area 1 & 2 as marked

Work Required: Copper, Nickel & Molybdenum

Your Ref.: J179/1-40 Number of Samples: 40

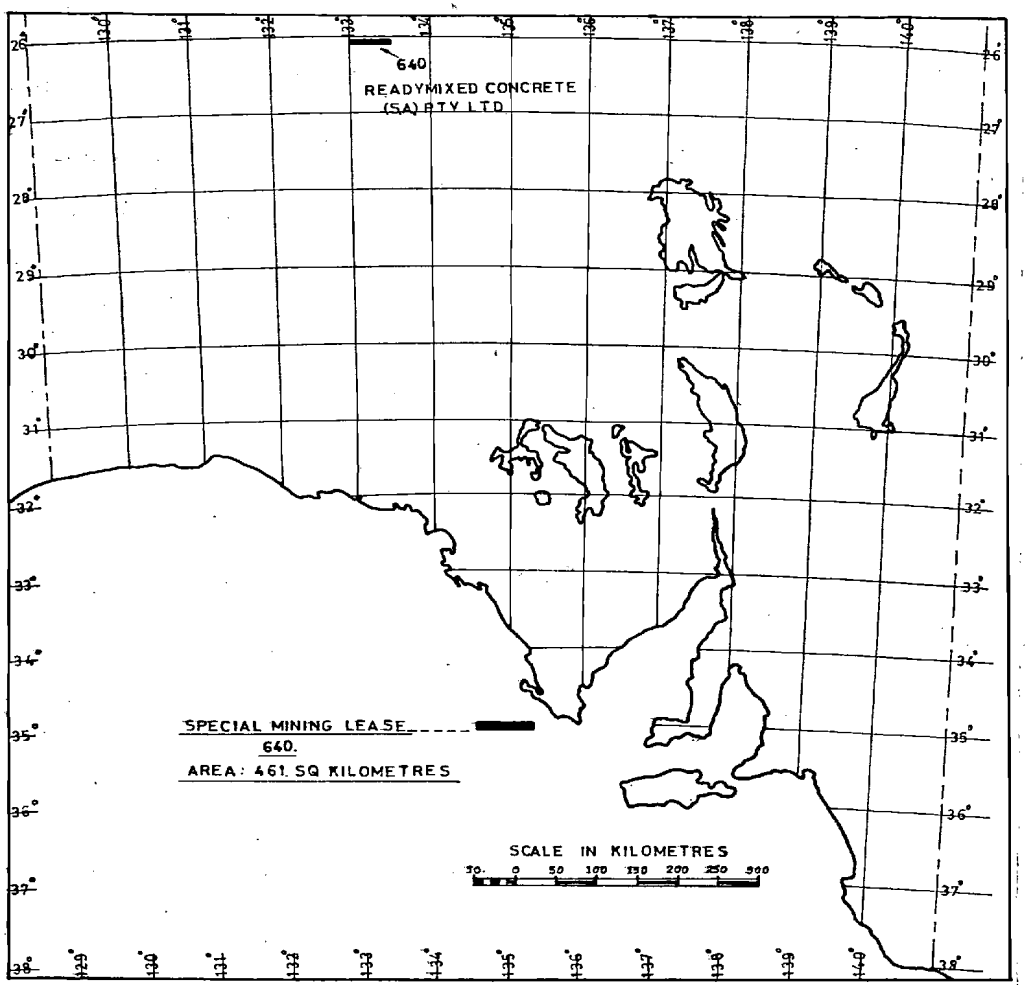
Report Sent to: Mr. B. Param

Analytical Report No.: - Date: 31/7/72

Analytical Technique Employed: A.A.S. R.M. Std. Method No.

Chemist in Charge: Analyst No.: 1

Sample Mark	Analytical Reference Number	Analyses Required				Description	Estimate				
		Cu. ppm	Ni. ppm	Mo. ppm							
Area 1											
4S/6E 0-10'	J179/25	15	25								
10-20'	26	40	25								
20-30'	27	20	25								
30-40'	28	30	25								
40-45'	29	20	25								
Hole 1											
8N-18E 10-20'	30	55	20								
8N-18E 10-20'	31	65	30								
20-30'	32	50	70								
30-40'	33	40	30								
40-50'	34	75	25								
50-60'	35	60	20								
60-70'	36	60	25								
Hole 2											
12S-6E 0-10'	37	45	25								
Hole 1											
12S-6E 0-10'	38	45	35								
Hole 2											
8N-10E 0-10'	39	30	40								
Hole 1											
8N-10E 0-10'	40	35	25								

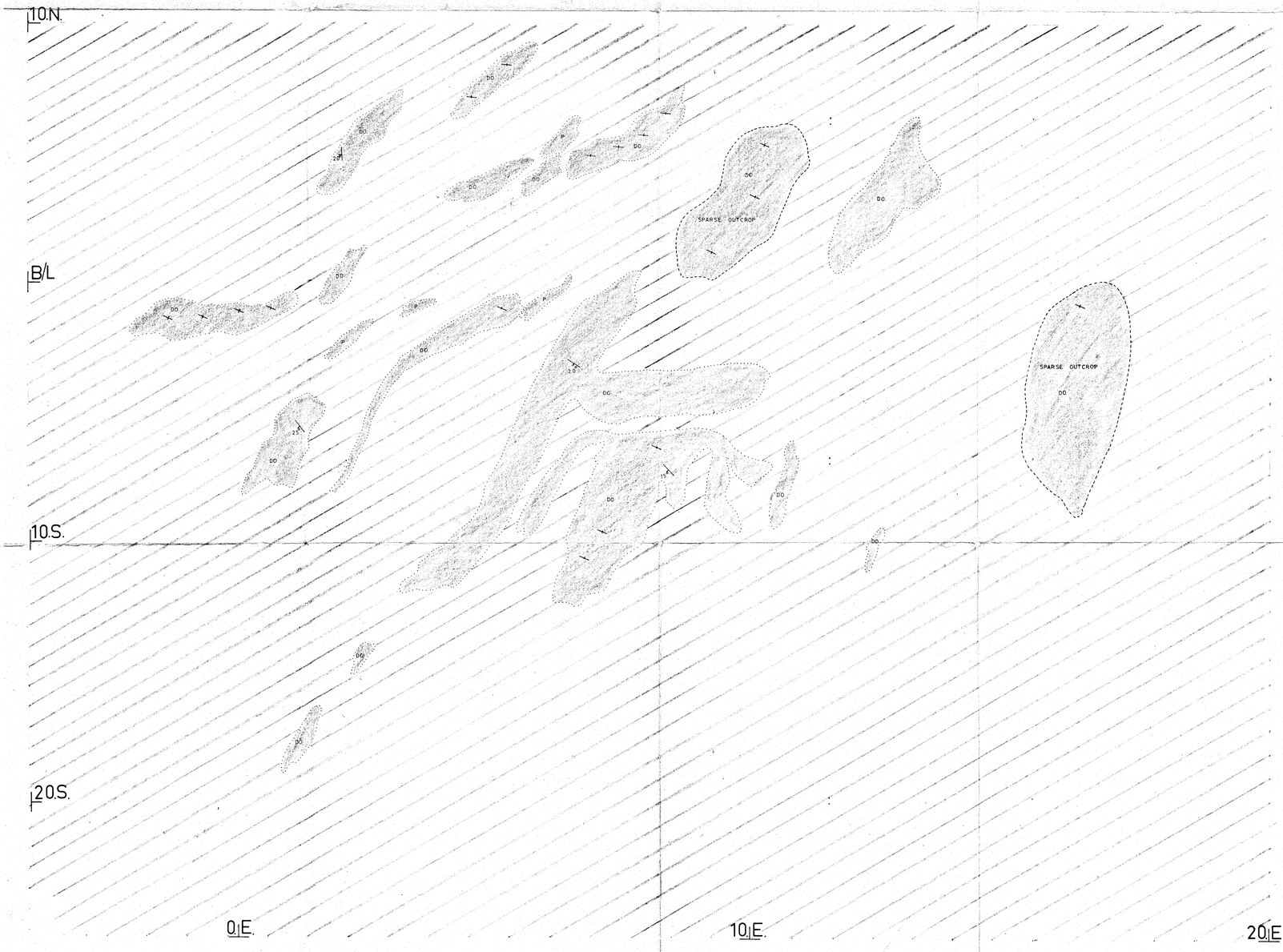


S.M.L. 640
461 SQ KILOMETRES

READYMIXED CONCRETE S.A. PTY LTD

SUNDOWN AREA KULGERA
SPECIAL MINING LEASE

DATE: 22-8-72	GEOLOGIST: B.C. PARAM
SCALE: 2 CM = 150 KILOMETRES	DRAWN BY: L.D.S.
REVISIONS:	DRAWING N°: PROJECT 20



KEY

QUATERNARY ____ QA ____ ALLUVIUM

PROTEROZOIC ____ DO ____ DOLERITE DYKES

____ P ____ PEGMATITES_QTZ VEINS

STRIKE & DIP ____ 45°

VERTICAL FOLIATION ____

OUTCROP LIMIT ____

READY MIXED CONCRETE (S.A.) PTY LTD

GEOLOGICAL PLAN

SUNDOWN AREA 1

DATE: 17 – 8 – 72	GEOLOGY: B. C. PARAM.
SCALE: 1 IN = 100 FT	DRAWN: L. D. S.
REVISIONS:	DRG N°: PROJ N° 20.

RMC MINERALS PTY LTD

SUNDOWN GEOCHEM

AREA I

date	2-9-71	geologist	B.C.P.
scale	1" = 200'	drawn by	M.B.
revisions		file no	1072

ENV 1648(III)-2

	0E	2E	4E	6E	8E	10E	12E	14E	16E	18E	20E
8N	66	70	65	225	60	145	25	30	145	60	
4N	75	95	50	175	55	45	35	(110) 130 ⊖(230)	125	170	65
BL	50	60	125	90	70	90	15	253	120	125	250 (80) ⊖(220)
4S	125	45	120	135	90	25	160	164	655	135	115
8S	40	60	85	150	75	120	(65) 130 ⊖(30)	110	45	205	45
12S	55	30	90	150	70	170	115	55	40	35	125 ⊖ 50
16S	45	35	50	50	60	70	75	65	65	50	65
20S	30	40	60	35	40	120	60	135	55	30	20 ⊖ 20
24S	25	25	30	35	35	30	25	35	35	35	40

KEY TO ELEMENTS ..... (COPPER) COPPER ⊖ NICKEL

COPPER ○ NICKEL

RMC MINERALS PTY LTD	
SUNDOWN GEOCHEM	
AREA II	
date 2-9-71	geologist B.C.P.
scale 1" = 200'	drawn by M.B.
revisions	file no 10-71