

83-#470 -#11446

10

MAGNETOMETER SURVEY REPORT

ON THE

DUNCAN GROUP MINERAL CLAIMS

*Western
Pacific Star
Independence
Kokisilah*

KOKSILAH RIVER, VANCOUVER ISLAND

VICTORIA MINING DIVISION

NTS 92B/12E

48°41'N, 123°42'W

FOR

REWARD RESOURCES LTD.

VANCOUVER, B.C.

BY

P.C. CURTIS

1983

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,446

TABLE OF CONTENTS

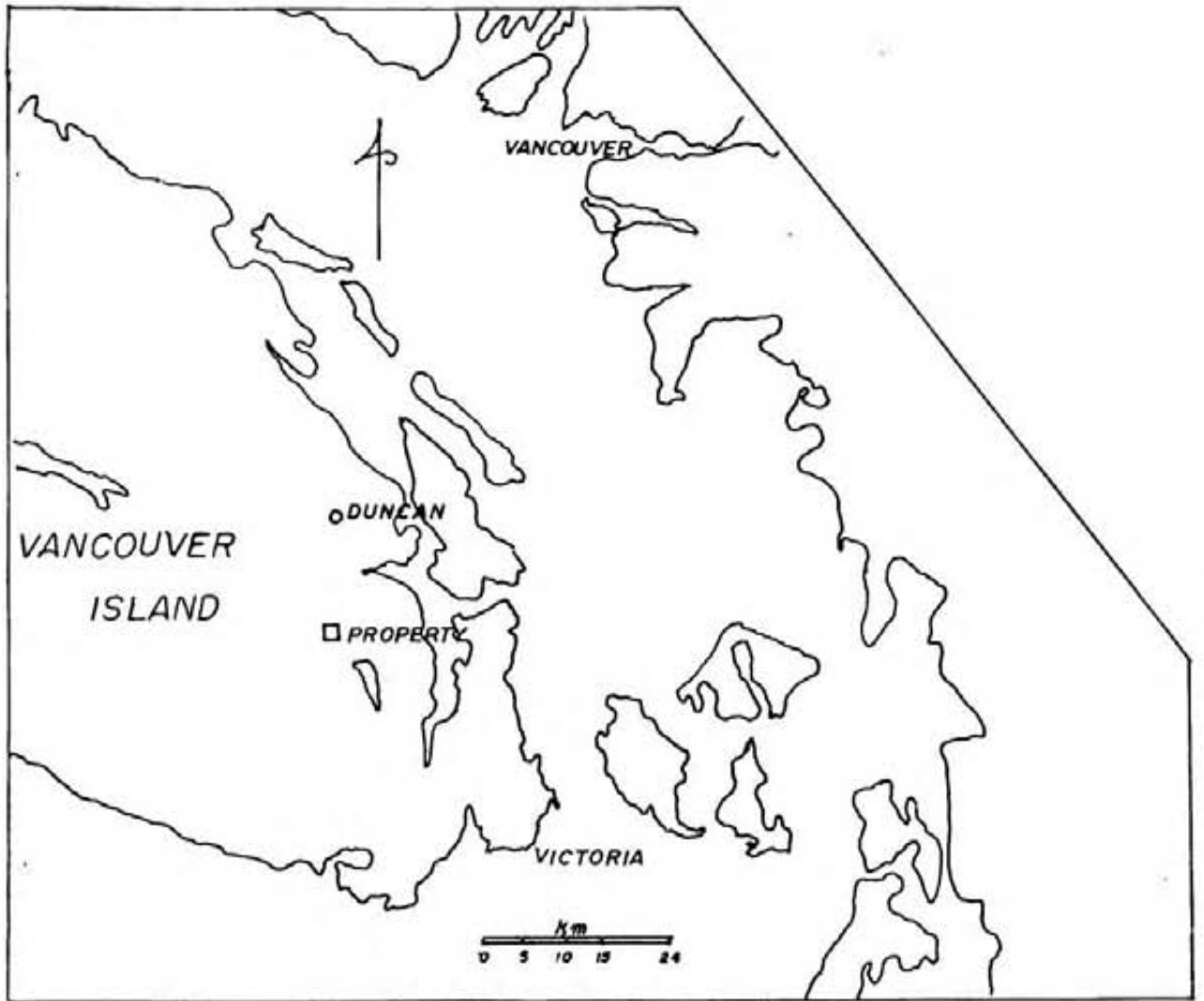
	PAGE
INTRODUCTION.....	1
LOCATION AND ACCESS.....	1
HISTORY.....	1
CLAIM GROUP.....	1
TOPOGRAPHY.....	2
GEOLOGY.....	2
FIELD PROGRAM.....	2
SUMMARY.....	3

APPENDICES

APPENDIX 'A'	F.J.R. Syberg
APPENDIX 'B'	STATEMENT OF COSTS
APPENDIX 'C'	QUALIFICATIONS OF AUTHOR
APPENDIX 'D'	CERTIFICATES OF ASSAY

MAPS

Duncan Property - Physical & Geological Scale: 1:2,000	#1
Magnetometer Survey (field readings)	#2
Total Field Magnetometer Survey, Scale: 1:2,000	#3
Enhanced Total Field Magnetometer Survey	#4
Geophysical & Geological Interpretation	#5



INTRODUCTION

This report was authorized by Reward Resources Ltd. Its purpose is to report on the procedures, costs and results of the magnetometer survey carried out between the 5th of February and 25th of March 1983.

LOCATION AND ACCESS

The property is located 7 1/2 km southwest of Cowichan Bay and 6 1/2 km northwest of the Shawnigan Lake Post Office on Vancouver Island.

A good all-weather dirt road exists along the Koksilah River and up part of Homess Creek.

HISTORY

Old reverted crown grants that occur within the property were known as the Bluebell and the King Solomon. These claims date from 1903. The MMAR refer to production of small tonnages of copper ore from the surface skarn pods and possibly from the exploration adits and shafts.

CLAIM GROUP

The property consists of the following claims:

NAME	UNITS	RECORD NO.
Western	12	711(11)
Independence	8	712(11)
Kokisilah	12	713(11)
Pacific Star	12	701(10)

TOPOGRAPHY

The relief is generally moderate except that the main streams are deeply incised and the occurrence of occasional steep rock bluffs.

GEOLOGY

The area of the survey is underlain by andesitic volcanics, much of which has been intensely silicified. A northerly-trending ridge of felspar-porphyry underlies the volcanics in the central part of the surveyed area. Small zones of skarn type alteration occur in the area.

FIELD PROGRAM

The field work was carried out by Messrs. L.J. and G. Scott under the supervision of the author. The compass survey, geology, and rock sampling, were carried out by the author.

A small office and accommodation were rented in Duncan for the supervisor.

For details of cost see Appendix "B".

A 1.2 km north-south baseline was cut and the roads and railway grade bordering the area to be examined were surveyed by

chain and compass. Magnetometer base stations were located at suitable intervals along the baseline and boundary roads. Magnetometer readings were taken every 20 meters along east-west lines. Lines were 50 meters apart. Two readings were taken at each station, one with the sensor 2.2 meters from ground level, the second at a height of approximately 0.7 meters. The difference between the two is plotted as "Separation" and the first, after correction for diurnal variation, is plotted as total magnetic field.

Some geological data was obtained during the course of the survey. A Geometrics G826 Proton Magnetometer Serial No. 1123 was used.

The total magnetometer field data was computer-enhanced and, with the aid of the field geological data, a geophysical and geological interpretation was made by F.J.R. Syberg (Appendix A and maps.)

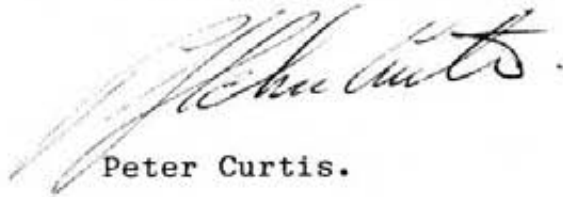
SUMMARY

This report details the procedure, work done, and results of a magnetometer survey carried out over a part of the property.

A 1.2 km baseline was cut and approximately 5 km of roadway were surveyed to act as control for the 23 line km of magnetometer survey.

The survey clearly shows the magnetite-pyrrhotite-rich skarn pods and also areas of further interest.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Peter Curtis", written in dark ink. The signature is fluid and somewhat stylized, with a prominent initial "P".

Peter Curtis.

APPENDIX "A"

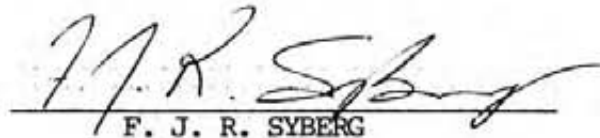
March 6th, 1984

TO: Reward Resources Ltd., Vancouver, B.C.
FROM: F.J.R. Syberg, 22313 - 124th Avenue, Maple Ridge, B.C.
RE: Geophysical Interpretation
Duncan Group Mineral Claims
Koksilah River, Vancouver Island
Victoria Mining Division

A total field ground magnetometer survey conducted by Mr. P.C. Curtis has been enhanced and interpreted.

The field survey observations posted on a map by Mr. P.C. Curtis were keyed into a computer. The magnetic anomalies were subjected to an ensemble analysis and an enhancement process applied. The object of the enhancement process has been to improve the correlation between surface geology and the magnetic observations, as well as assist in geological interpretation in areas where there may be a lack of such information. An enhanced total field magnetic map has been submitted illustrating the results of the enhancement.

An interpretational map has been submitted. This map is the result of using several computer based interpretational aids on the enhanced total field magnetic anomalies. It has been found that the magnetic anomalies appear to be due to geological structures and that volcanic and metavolcanic cover is a principal component. Several exploration target areas have been outlined on the interpretational map. These are the result of correlating the intensity of magnetic anomalies with interpreted structures and mineral occurrences noted in geological reports.


F. J. R. SYBERG

APPENDIX 'B'

STATEMENT OF COSTS

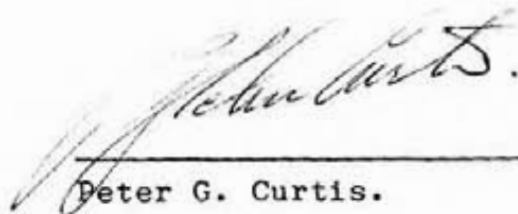
<u>Supervisor, P.G.Curtis, 43 days @ \$ 123</u>	\$ 5,289.00	
L.J. Scott, 28 days @ \$ 120	3,360.00	
G. Scott , 23 days @ \$ 40	920.00	
 Mag interpretation and maps	 1,500.00	
Report preparation	<u>400.00</u>	
	 \$ 11,469.00	 \$ 11,469.00
 <u>Field & Office Expenses</u>		
Office & Accommodation in Duncan	\$ 688.54	
Victuals	526.35	
Transportation	568.93	
Field Equipment & Air Photos	419.24	
Magnetometer rental	860.00	
Assaying	<u>108.00</u>	
	 \$ 3,171.06	 <u>3 71.06</u>
 T O T A L		 <u>\$ 14,640.06</u>

APPENDIX 'C'

QUALIFICATIONS OF SUPERVISOR AND AUTHOR OF THIS REPORT

1. I am a graduate of the Camborne School of Mines, Cornwall, England with an additional diploma in Applied Geochemistry.
2. I have been employed in mineral exploration in Canada since 1967 (10 years with ASARCO Exploration Company of Canada Ltd.).
3. I am a Fellow of the Geological Association of Canada.

DATED AT VANCOUVER, BRITISH COLUMBIA THIS 25th day of October 1983.



Peter G. Curtis.



To: Reward Resources Ltd.,
3513 W. 31 Ave.,
Vancouver, B.C.

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone: 253 - 3158

File No. 83-0131
Type of Samples Rocks
Disposition _____

ASSAY CERTIFICATE

No.	Sample	Cu%	Ag oz/ton	Au oz/ton	Map N ^o			No.
1	58284	.01	.01	.001	1			1
2	58285	.01	.01	.001	2			2
3	58286	.01	.01	.001	3			3
4	58287	.01	.01	.001	4			4
5	58288	.01	.01	.001	5			5
6	58289	.01	.01	.001	6			6
7	58290	.01	.01	.001	7			7
8								8
9	Low Grade	.34	.14	.001	12			9
10	High Grade	4.12	.60	.001	13			10
11								11
12								12
13								13
14								14
15								15
16								16
17								17
18								18
19								19
20								20

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DATE SAMPLES RECEIVED Feb. 14, 1983

DATE REPORTS MAILED Feb. 16, 1983

ASSAYER

Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Reward Res.
210 - 1165 W. 13th Ave.,
Vancouver, B.C.
V6H 1N4

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone: 253 - 3158

File No. 83-0390

Type of Samples Rock

Disposition _____

ASSAY CERTIFICATE

No.	Sample	Cu%	Zn%	Ag oz/ton	Au oz/ton	Map N ^o		No.
1	36952			.05	.001	14		1
2	36953	1.92	.01	.32	.001	15		2
3	36954	1.22	.01	.19	.001	16		3
4								4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
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DATE SAMPLES RECEIVED Apr. 13, 1983

DATE REPORTS MAILED Apr. 18, 1983

ASSAYER Dean Toyé

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Reward Res.
3513 W. 31th Ave.,
Vancouver, B.C.

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

Telephone: 253 - 3158

File No. 83-0188

Type of Samples Rock

Disposition _____

ASSAY CERTIFICATE

No.	Sample	Cu%	Ag oz/ton	Au oz/ton	Map N°			No.
1	37101		.08	.001	9			1
2	37102		.01	.001	10			2
3	37103	4.39	.56	.002	11			3
4	58291	.04	.02	.001	8			4
5								5
6								6
7								7
8								8
9								9
10								10
11								11
12								12
13								13
14								14
15								15
16								16
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18								18
19								19
20								20

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DATE SAMPLES RECEIVED Feb. 28, 1983

DATE REPORTS MAILED Mar. 1, 1983

ASSAYER

Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

DUNCAN PROPERTY
PHYSICAL
&
GEOLOGICAL

DRAWN BY: P. CURTIS DATE: APRIL 1985 SCALE: 1:2000 NTS: 928/12E

GEOLOGICAL BRANCH
ASSESSMENT REPORT

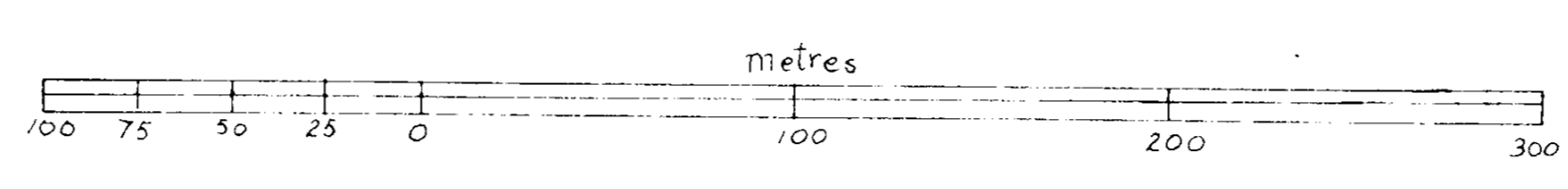
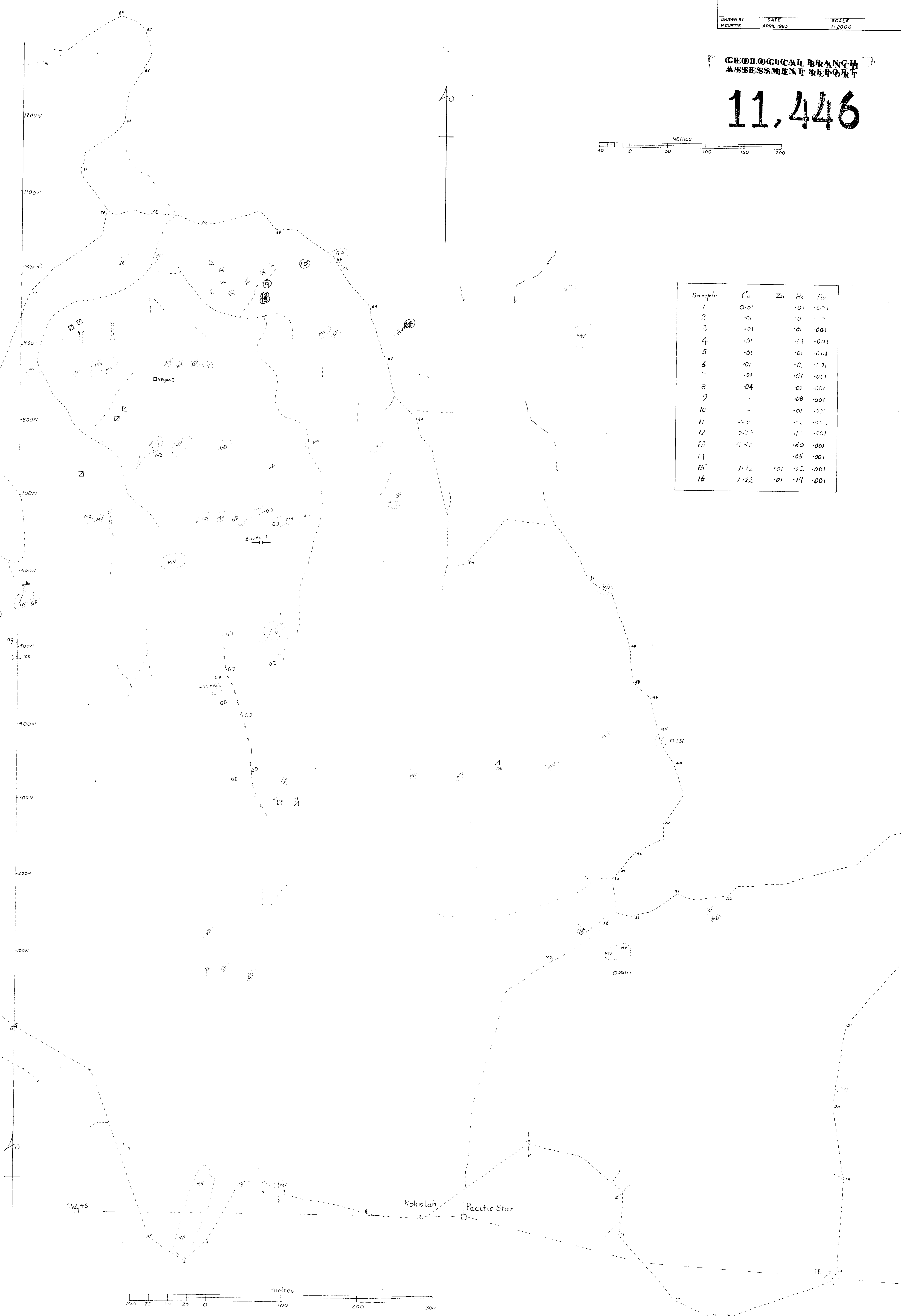
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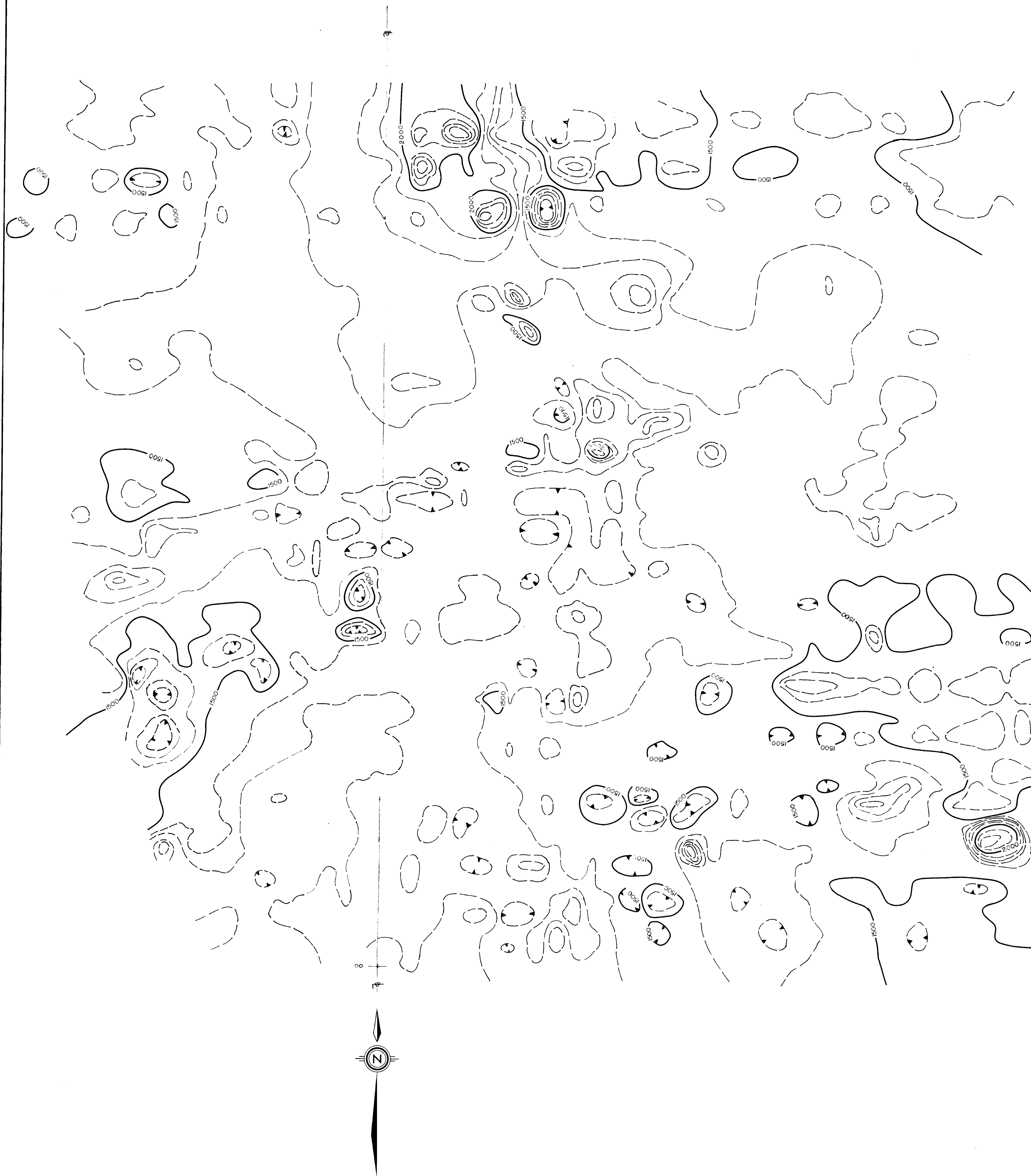


Sample	Co	Zn	Pb	Al
1	0.01	-	0.01	0.01
2	0.01	-	0.01	0.01
3	0.01	-	0.01	0.01
4	0.01	-	0.01	0.01
5	0.01	-	0.01	0.01
6	0.01	-	0.01	0.01
7	0.01	-	0.01	0.01
8	0.04	-	0.02	0.01
9	-	-	0.08	0.01
10	-	-	0.01	0.01
11	0.01	-	0.01	0.01
12	0.01	-	0.01	0.01
13	4.42	-	0.60	0.01
14	-	-	0.05	0.01
15	1.72	0.01	0.02	0.01
16	1.22	0.01	0.19	0.01

LEGEND

- GD Gneodiorite
- MV Metavolcanics
- V Volcanics
- LSt Limestone
- SK Skarn
- Outcrop
- Shaft
- Adit
- Road or Trail
- Railway Grade
- Claim or Unit Post





GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,446

MAP 3

REWARD RESOURCES LTD.

DUNCAN PROPERTY

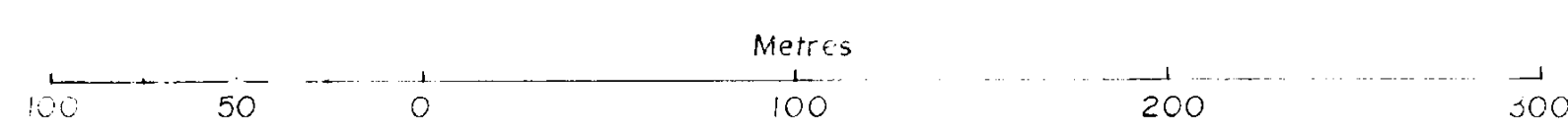
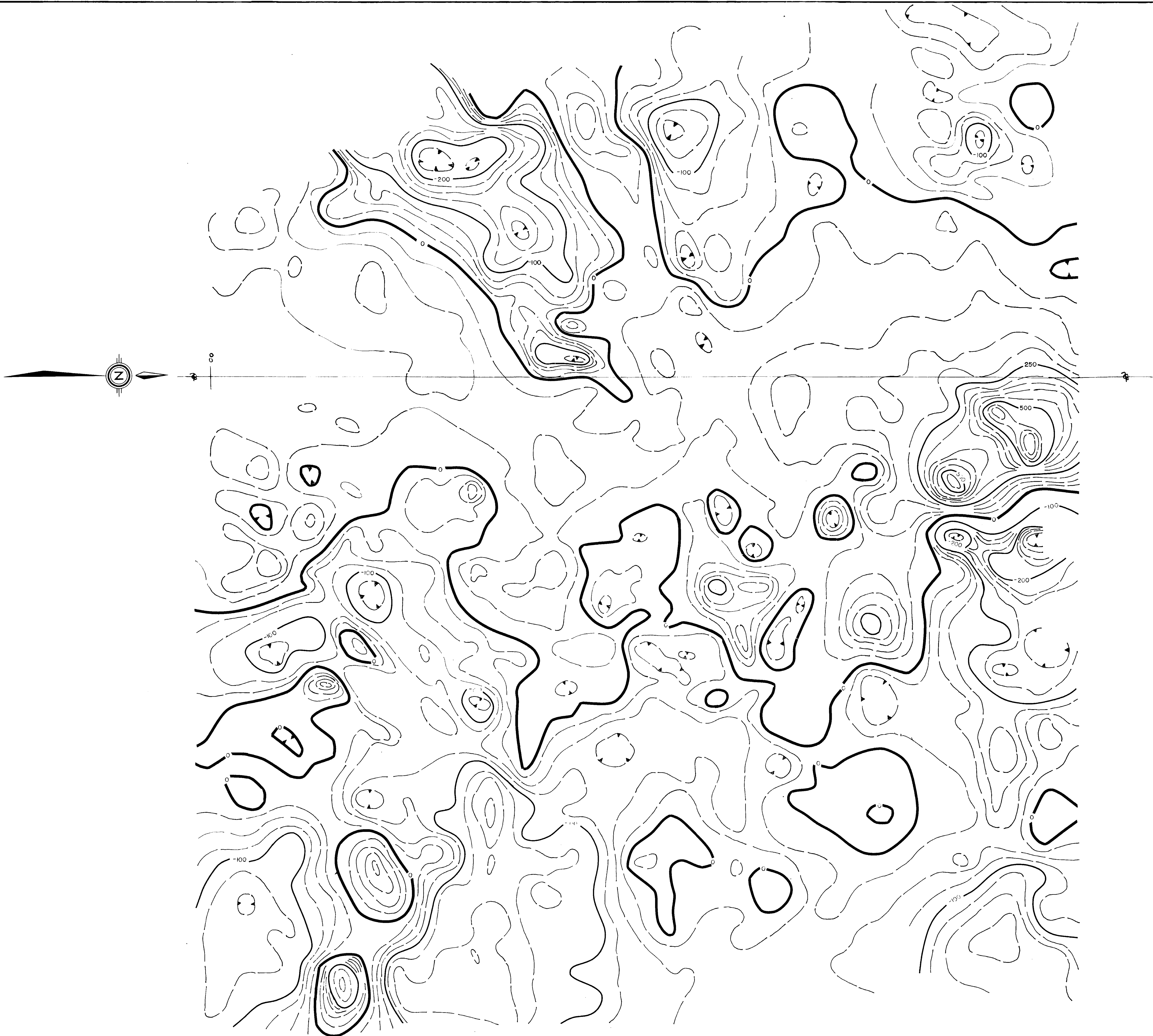
TOTAL FIELD MAGNETOMETER SURVEY

BASELEVEL : 55,000 gamma

CONTOUR INTERVALS : above 2000-100gamma, below 2000-50 gamma

DRAWN F.J.R. SYBERG	DATE MAY 1983	SCALE 1:2000	NTS 92.5/12 F
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Metres
100 75 50 25 0 100 200 300

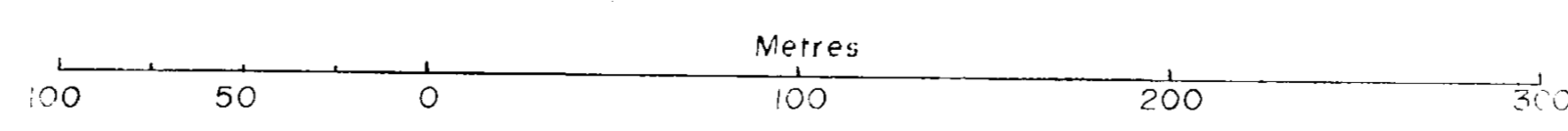
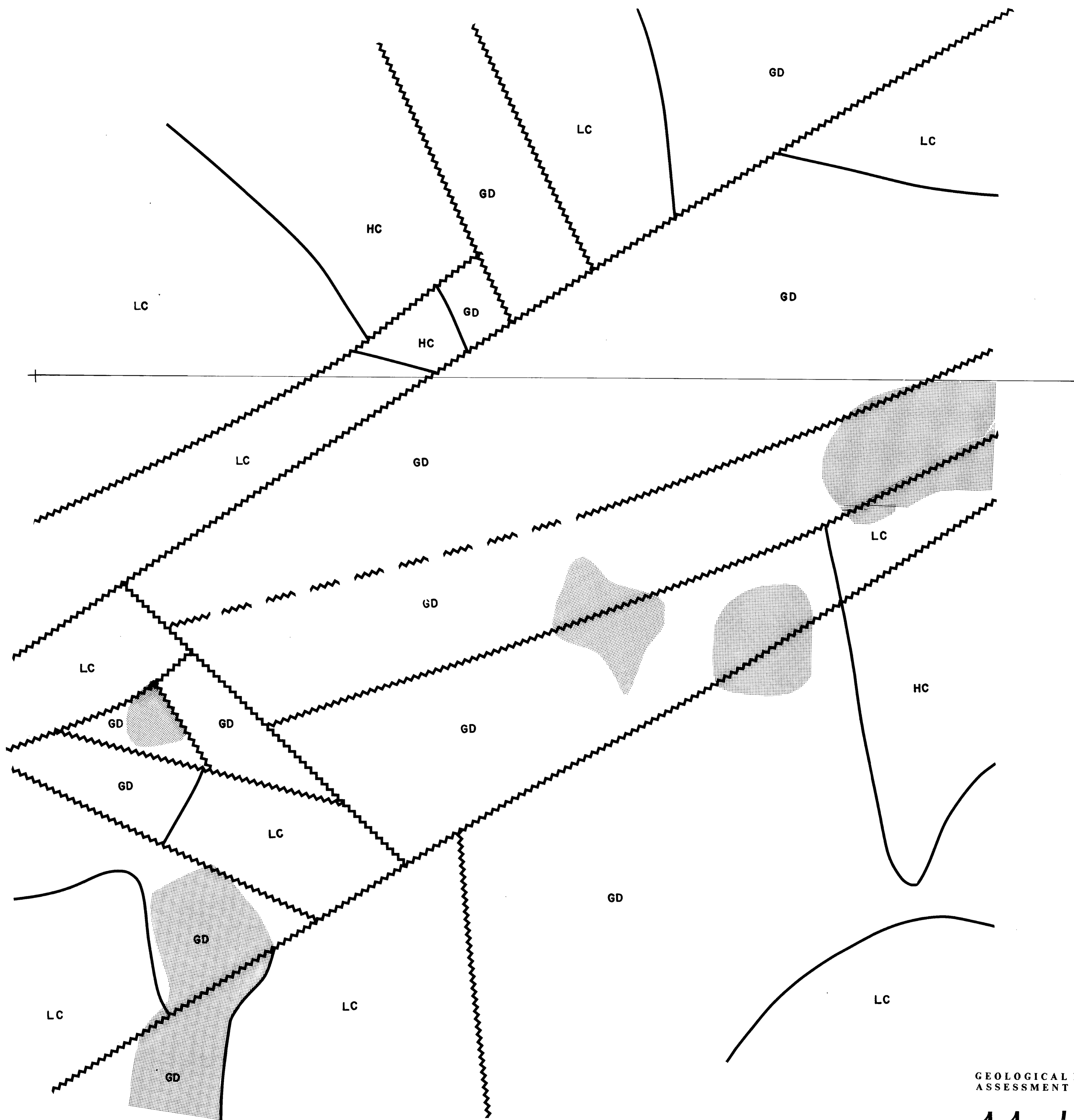


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ASSESSMENT REPORT

11,446




MAP 4

REWARD RESOURCES LTD.			
DUNCAN PROPERTY			
ENHANCED TOTAL MAGNETIC FIELD			
CONTOUR INTERVAL: above zero - 50gamma, below zero - 25gamma			
DRAWN	DATE	SCALE	NTS
F.J.R. SYPERG	MAY, 1963	1:2000	92B/12E



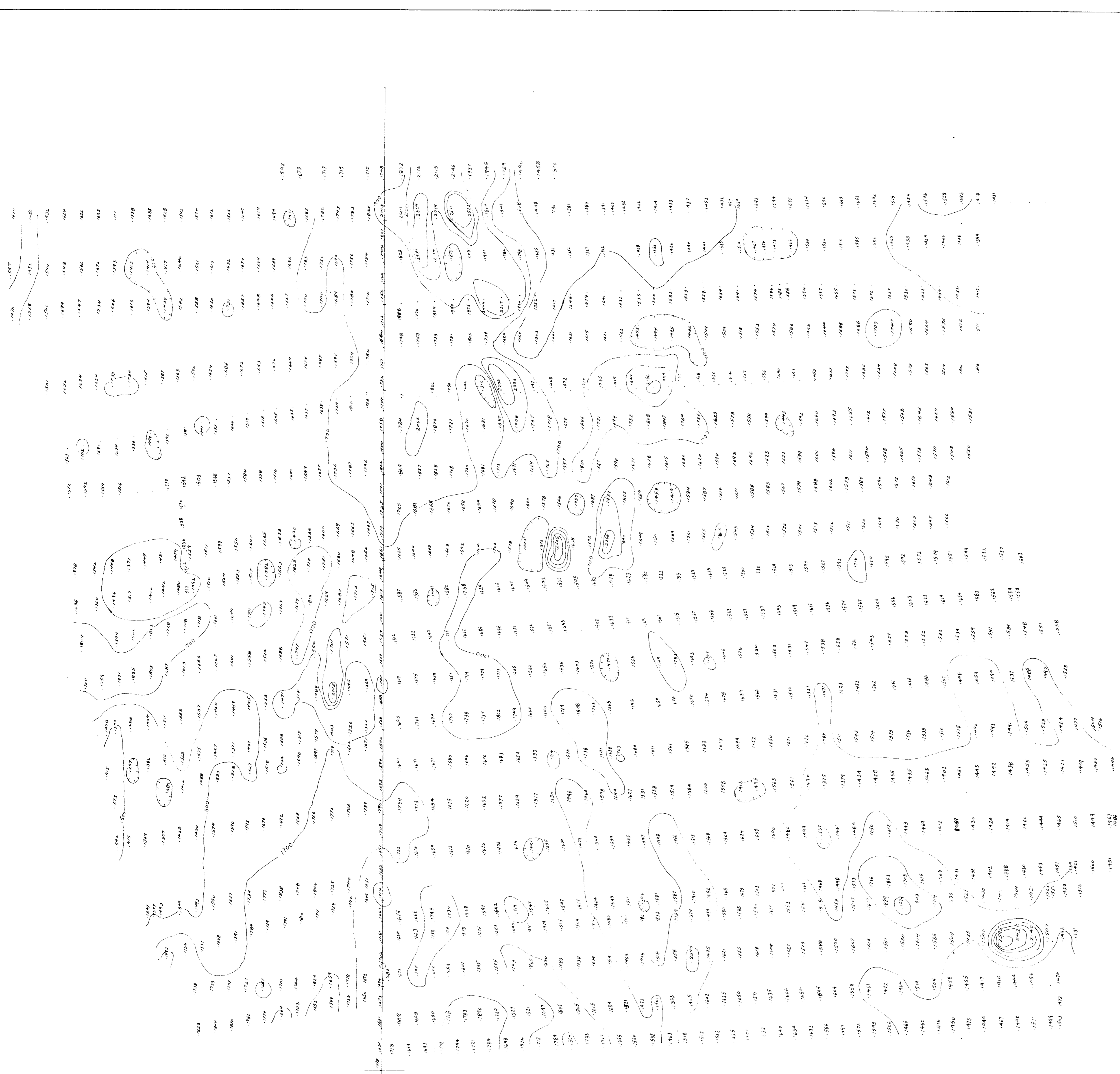
GEOLOGICAL BRANCH
ASSESSMENT REPORT

LEGEND 11,446

-  — HIGH PRIORITY EXPLORATION AREA
-  — FAULT/FRACTURE ZONE
-  — CONTACT
- GD** — Mainly Granodiorite with remnant volcanics & metavolcanics
- HC** — Relatively thick volcanic & metavolcanic cover
- LC** — Moderate volcanic & metavolcanic cover

MAP 5

REWARD RESOURCES LTD.			
DUNCAN PROPERTY			
GEOLOGICAL & GEOPHYSICAL INTERPRETATION			
DRAWN F.J.R. SYBERG	DATE MAY, 1983	SCALE 1:2000	NTS 92B/12E



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ASSESSMENT REPORT

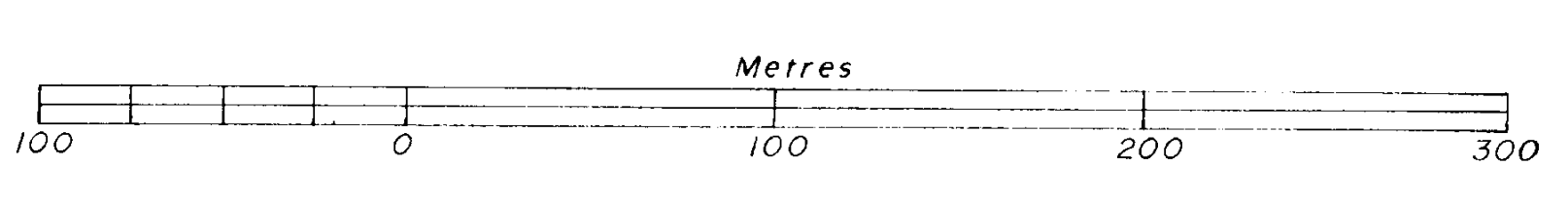
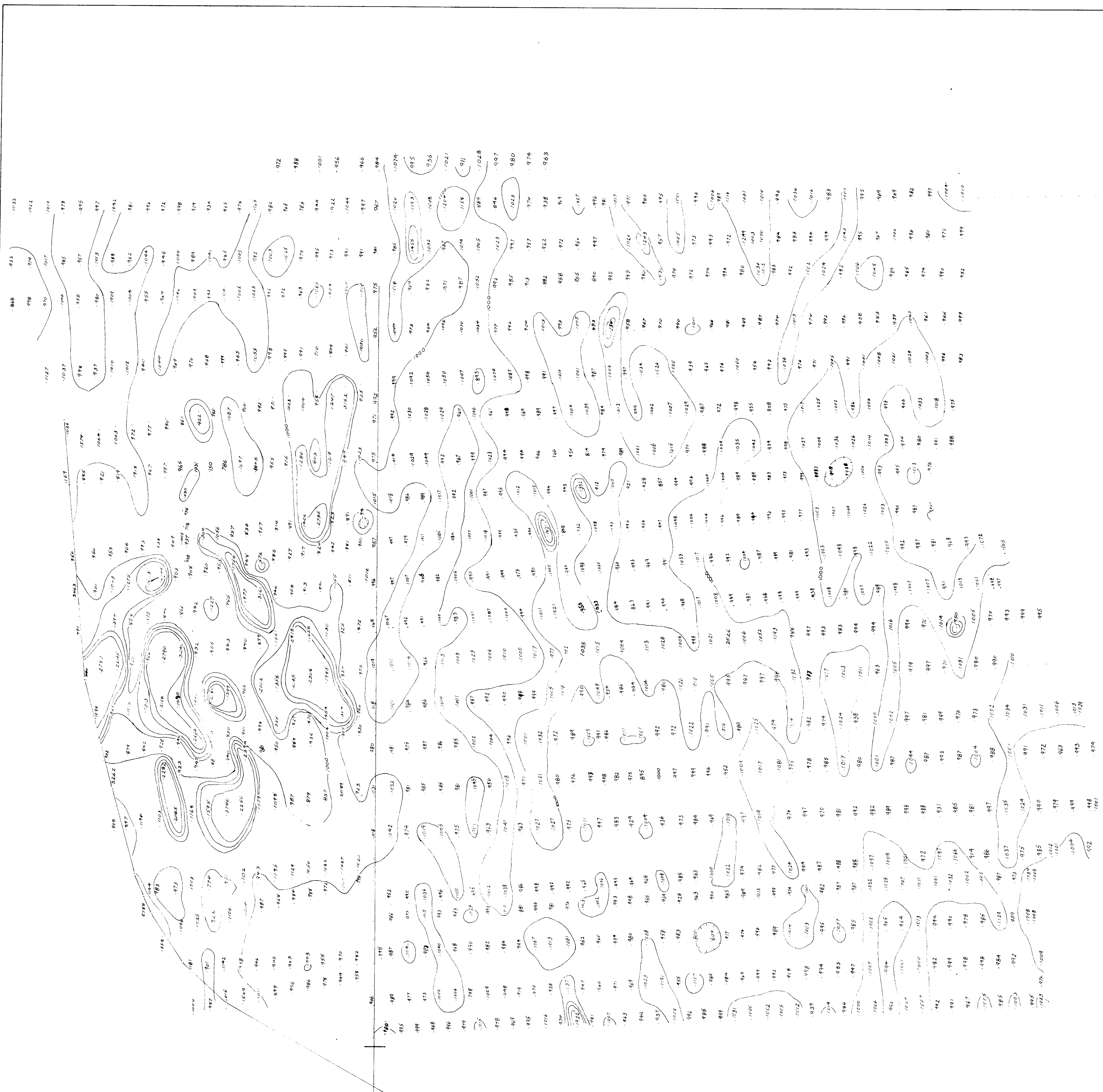
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MAP 2

REWARD RESOURCES Ltd.

DUNCAN PROPERTY
MAGNETOMETER SURVEY
TOTAL FIELD MINUS 55000 GAMMA

DRAWN BY P. CURTIS DATE APRIL 1983 SCALE 1:2000 NTS 928/12E



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11,446

MAP 2a

REWARD RESOURCES Ltd.

DUNCAN PROPERTY

MAGNETOMETER SURVEY

Separation Base 1000

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MAP